

March 1, 2022

Mr. Brian Jankauskas, P.E. New York State Department of Environmental Conservation Division of Environmental Remediation, Remedial Bureau A 625 Broadway 12th Floor Albany, NY 12233-7015

Subject: 2021 Operations and Maintenance Report Former Ciba-Geigy Facility Glens Falls, New York NYSDEC #557011

Dear Mr. Jankauskas:

This *Operations and Maintenance Report* summarizes the operations and maintenance (O&M) activities performed between January 1 and December 31, 2021, at the former Ciba-Geigy Corporation pigments manufacturing facility located at 89 Lower Warren Street in Queensbury, New York, just east of the City of Glens Falls (the Site) (**Figure 1**). O&M are performed in accordance with the New York State Department of Environmental Conservation (NYSDEC) Hazardous Waste Management (HWM) Post Closure Permit for the Site (NYSDEC Site No. 557011). A renewal of Part 373 of the HWM Permit #5-5234-00008/00096 was issued by the NYSDEC on March 6, 2015, with an expiration date of March 5, 2025.

EHS Support LLC ("EHS Support") is submitting this report to the NYSDEC on behalf of Hercules LLC ("Hercules," previously acquired by Ashland LLC) and CIBA Corporation ("CIBA," previously acquired by BASF Corporation). Hercules and CIBA ("the Parties") are the Site permittees and share responsibility for ongoing environmental activities.

GWES Operations Summary

Groundwater extraction system (GWES) operations were performed at the Main Plant Site (MPS) area in accordance with the *Remedy Optimization Plan* (ROP),¹ which was approved by NYSDEC and implemented in November 2016, and the *Revised Remedy Optimization Report* (ROR), which was approved by NYSDEC in May 2019.²

Groundwater was extracted in 2021 from two sumps (Sumps A and B) in the overburden French Drain System (Figure 2). Additionally, as described in the letter submitted to the NYSDEC in November 2018,

¹ EHS Support. 2016. Remedy Optimization Plan. Former Ciba-Geigy Facility, Glens Falls, NY. August 2016. Revised November 2016.

² EHS Support. 2019. Revised Remedy Optimization Report. Former Ciba-Geigy Facility, Glens Falls, NY. March.

Brian Jankauskas, P.E. 2021 Operations and Maintenance Report – Former Ciba-Geigy Facility March 1, 2022



approved by the NYSDEC in December 2018,³ and documented in the NYSDEC-approved ROR, groundwater extraction was reinitiated at well EW-B5 in December 2018. Extraction well EW-B5 was active throughout 2021. In accordance with the ROP and the ROR, groundwater is no longer extracted from the other 19 bedrock groundwater extraction wells or from Sump C.

Extracted groundwater is pumped via force mains to a lift station near the on-site railroad crossing, then pumped to a 500,000-gallon equalization tank located in the effluent pumping station (EPS) building near the northeastern corner of the Site. The extracted water is then discharged directly from the EPS to the City of Glens Falls publicly owned treatment works (POTW) in accordance with the City of Glens Falls Industrial User Permit No. 002F, issued in April 2012 (renewed April 2017). In February 2018, the POTW provided an updated page 11 for the permit, which specifies a pH range of 6.0 to 9.0 standard units (SU) that is consistent with the Site-specific limits indicated on page 3 of the permit. This updated permit page is included in **Enclosure 1**, along with the current permit dated April 2017. A renewal application has been submitted to the City of Glens Falls for continuation of the existing discharge permit beyond its current expiration date of April 2022.

POTW Discharge Monitoring Results

Per the POTW permit, discharge sampling was performed quarterly in 2021, and Discharge Monitoring Reports (DMRs) were submitted to the POTW.

As specified in the permit, the GWES discharge was monitored for several parameters. The DMRs, including the laboratory analytical reports, are included in **Enclosure 2**. System discharges must comply with the limits outlined in the POTW permit.

Flow, Chromium, and Cyanide

Permit limits for flow, chromium, and cyanide include the following:

- Total Flow: 175,000 gallons per day (gpd) (quarterly average)
- Total Flow: 350,000 gpd (instantaneous maximum)
- Total Chromium: 3.1 pounds per day (lb/day) (maximum, based on quarterly sample result and quarterly average flow)
- Total Cyanide: 3.0 milligrams per liter (mg/L) (maximum, based on quarterly sample result)

The GWES flow is recorded daily at the permittees' dedicated flow meter, located at the southern end of the Preliminary Treatment Building at the Glens Falls POTW. The GWES discharge is sampled quarterly using a composite sampler at the southern end of the Preliminary Treatment Building at the POTW, with samples analyzed for total chromium (United States Environmental Protection Agency [USEPA] Method 200.8) and total cyanide (USEPA Method 335.4).

The 2021 POTW discharge results for flow, cyanide, and chromium measurements are summarized in **Table 1.** All results were within the applicable permit limits.

³ Letter submitted to the NYSDEC by EHS Support on November 27, 2018, RE: EW-B5 Operations and Main Plant Site Groundwater and Surface Water Sampling Program. NYSDEC provided approval via e-mail on December 6, 2018.



	Flow (gpd, Maximum Daily)	Flow (gpd, Average)	Sample Date	Total Cyanide (mg/L)	Total Chromium (mg/L)	Chromium (lb/day)
Permit Limits	350,000	175,000		3.0		3.1
January – March 2021	73,000	24,233	2/22/2021	0.55	0.19	0.04
April – June 2021	90,000	48,725	4/29/2021	0.65	0.37	0.15
July – September 2021	88,000	56,848	7/29/2021	0.1U	0.49	0.23
October – December 2021	119,000	65,913	12/15/2021	0.57	0.48	0.26
Average		48,930		0.47	0.38	0.17

Table 1 Comparison of Measured Values to Permit Values (Flow, Cyanide, Chromium)

Notes:

Dashes represent information that is not applicable.

gpd = gallons per day

lb/day = pounds per day

mg/L = milligrams per liter

U = indicates the analyte was not detected above reporting limit.

The chromium permit limit is a daily mass limit, so the concentration measured in the composite discharge sample is converted to an average daily mass, using the average flow for the period.

The conversion calculation is as follows:

$$Total \ chromium \ \left(\frac{lb}{day}\right) = \ \left(x \ \frac{mg}{L}\right) \left(\frac{g}{10^3 \ mg}\right) \left(\frac{lb}{453.59 \ g}\right) \left(\frac{1 \ L}{0.2642 \ gal}\right) \left(y \ \frac{gal}{day}\right)$$

where:

x = chromium concentration (quarterly sample result)
y = average quarterly flow
g = grams
gal = gallons
L = liters
lb = pounds
mg = milligrams

Other Parameters

The POTW permit includes limits for several additional parameters. The POTW permit requires continuous sampling for pH; quarterly sampling for lead, mercury, and total phenols; and annual sampling for 22 additional analytes, biological oxygen demand, total suspended solids, and oil and

Brian Jankauskas, P.E. 2021 Operations and Maintenance Report – Former Ciba-Geigy Facility March 1, 2022



grease (frequency and limits provided in **Enclosure 1**). GWES operations complied with all additional requirements of the POTW permit (as provided on the DMRs [**Enclosure 2**]).

Annual discharge sampling for the full suite of analytes listed in the permit was performed on December 15, 2021. The sample results for constituents beyond cyanide and chromium (which were discussed earlier) are provided in **Enclosure 3**, along with the permit limits. All sample results were within permit limits, with concentrations orders of magnitude below the respective permit limits.

On-Site GWES Discharge Measurements

Flow totalizers were in place in Sump A, Sump B, and extraction well EW-B5 throughout 2021. Totalizer readings were manually recorded in both sumps and EW-B5 on an approximately weekly basis, except for short periods of time when the pumps at Sumps A and B were not running (later replaced) and when field personnel were unable to open well EW-B5 to record the measurement. For Sumps A and B, totalizer readings were also recorded daily through the Site telemetry system. Starting in December 2021, automatic telemetry readings were also available for well EW-B5.

Consistent with historical data reviewed for the development of the ROP, Sump B had a considerably higher average discharge rate than Sump A. When considering the combined discharge from these two sumps, an average of 70 percent of the flow from the French Drain was contributed by Sump B. **Figure 3** illustrates the daily flow totals from Sumps A and B, as recorded by the telemetry system.

When telemetry upgrades were completed for Sumps A and B in late 2016, operational data, including pump status and flow rate, became available for each location, with data recorded in 15-minute intervals. At Sump B, consistent with pumping in 2017 through 2020, pumping typically occurred three times a day at approximately 2-hour intervals. When the pump is active, Sump B pumping rates average approximately 100 gallons per minute (gpm). The typical pumping rate for the Sump A pump was 25 gpm, with the pump cycling approximately every hour for 15 to 30 minutes.

Extraction rates at well EW-B5 averaged approximately 300 gpd. When active, the EW-B5 pump extracts water at a rate of 10 gpm. Weekly totalizer readings for EW-B5 are summarized in **Enclosure 4**.

Pumping Set Points

The pumping level set points in Sumps A and B have been refined to achieve maximum drawdown within the sumps (i.e., optimize water extraction), while ensuring pump intakes remain submerged to avoid overheating and/or damage to the pumps. The pump operations are optimized to maintain water levels in the French Drain at or below the base of the overburden horizon to the extent practicable.

In Sump A, the transducer controlling the pump was calibrated to initiate pumping at a water level elevation of 211.2 feet mean sea level (ft msl) and continue pumping until the water level reaches 210.2 ft msl. The overburden base elevation in the vicinity of Sump A is 215 ft msl or higher, and the invert of the French Drain inlet pipe at Sump A is 210.2 ft msl. In Sump B, the transducer controlling the pump was calibrated to initiate pumping at a water level elevation of 214.0 ft msl and continue pumping until

Brian Jankauskas, P.E. 2021 Operations and Maintenance Report – Former Ciba-Geigy Facility March 1, 2022



the water level reaches 211.5 ft msl. The overburden base elevation in the vicinity of Sump B is 217 ft msl or higher, and the invert of the French Drain inlet pipe at Sump B is 209.2 ft msl.

Since December 2018, the level-float controls for the EW-B5 well pump have been set to initiate pumping at a water level elevation of 194.0 ft msl and continue pumping until the water level reaches 187.7 ft msl. The pumping elevation range is similar to the range used before discontinuing groundwater extraction at well EW-B5 in 2016.

GWES and Site Operations and Maintenance

Site inspections were conducted on a weekly, monthly, and quarterly basis to evaluate the condition of multiple Site features, including the Resource Conservation and Recovery Act (RCRA) cap, permeable cover, roads, fencing, surface drainage system, and vegetative cover. Inspection reports are provided in **Enclosure 5.**

Fencing and Signage

During Site inspections, the condition of the fences were inspected to check for any signs of damage or unauthorized entry. During an inspection performed in December 2021, some damage to the fencing in the northeast portion of the North Lot was observed, along with some neighbor's equipment stored in the area. The Parties are currently reviewing the status of this issue.

Fence signage was maintained along all fence lines of the MPS, as well as along fence lines of the pretreatment plant and other off-site parcels.

Roads and Covers

Access road conditions were assessed during weekly inspections for damage and were plowed during the winter on an as-needed basis. The condition of the cover systems was also assessed. No erosion or disturbance (e.g., by small animals) was discovered. The Site was mowed during the summer months.

GWES, Lift Station, and Discharge Force Main

Preventative maintenance was conducted on the active pumps throughout 2021. The pumps in Sump A and Sump B were pulled, cleaned, and checked for functionality, and probes were cleaned, inspected for continuity, and replaced as necessary. Bio-foul build-up, scaling, and iron build-up were removed from the probes, pumps, and piping to ensure continued operation at peak efficiency. Weekly inspections were conducted to ensure that the pumps and related components were functioning properly, and plumbing lines were inspected for leaks.

As has been typical for operations at this Site, intermittent power, system alarm, and telemetry communication outages occurred during the year; however, these were promptly resolved either remotely via telemetry or by a technician on-site.

A summary of the electrical and mechanical upgrades performed in 2021 is provided in Table 2.



Date	Description
2/11/2021	Pump replaced at Sump B.
4/22/2021	Pump replaced at Sump A.
6/1/2021	Pump at EW-B5 repaired.

Table 2Summary of Mechanical and Electrical Upgrades

As communicated to the NYSDEC via e-mail on December 18, 2020, the pump in Sump B became inoperable in mid-December 2020. Through troubleshooting it was determined that the pump required replacement. A new pump was ordered and, following weather-related delays, was replaced and restarted in February 2021.

NYSDEC and City of Glens Falls Site Inspections

Kevin Wood, Regional Materials Management Engineer with NYSDEC, completed a hazardous waste inspection on December 15, 2020, which consisted of viewing the RCRA cap, some of the GWES components, and the EPS. No issues were identified during the inspection other than two unlocked padlocks on stickup well caps, and a depression in the ground surface noted in the RCRA cap area that could potentially gather surface water.

During inspections conducted throughout 2021, no standing water was observed in the depression, and the soil was relatively dry. There was also no erosion or exposed soils noted in this area, nor evidence of surface desiccation (cracks) or sloughing. Since there was no immediate risk from the depression in the RCRA cap, the cap continued to be monitored and no corrective actions were initiated. In a letter dated November 1, 2021, NYSDEC requested that repairs to the RCRA cap be made by January 31, 2022. In a letter dated November 24, 2021, the Parties requested a six-month extension until July 31, 2022, to further evaluate the RCRA cap conditions and conduct any needed repairs.

As a follow-up to the 2020 RCRA cap inspection, a Site visit took place on December 21, 2021 and included Kevin Wood and Brian Jankauskas (both from NYSDEC), Bob O'Neill (Brown & Caldwell), Katie Angel (Antea), and Cameron Dixon (EHS Support). In a letter dated December 27, 2021, NYSDEC agreed to the Parties' proposed extension. Due to COVID-19 travel and access restrictions, a representative from the City of Glens Falls POTW did not complete a Site inspection in 2021.



Closing

Certification by a NYS-registered professional engineer is provided on the following page.

If you have questions or comments regarding this report or the attached documents, please contact Cassie Johnson at 608-558-6795 for discussion.

Sincerely,

Abadulara

Elena Dadukova Project Engineer

Cassie Johnson Project Manager

List of Attached Figures:

Figure 1 – Site Location Figure 2 – Site Features and Groundwater Extraction System Components Figure 3 – Daily Extraction Rates – Sumps A and B

List of Enclosures:

- Enclosure 1 City of Glens Falls Industrial User Permit No. 002F (April 2017)
- Enclosure 2 2021 Discharge Monitoring Reports
- Enclosure 3 POTW Effluent Extended Parameters
- Enclosure 4 EW-B5 Weekly Totalizer Summary
- Enclosure 5 Site Inspection Reports
- cc: Eamonn O'Neil, New York State Department of Health James Vondracek, Ashland LLC Stephen Havlik, BASF Corporation Laura McMahon, BASF Corporation Katie Angel, Antea Group Kristin VanLandingham, EHS Support Jim Breza, EHS Support Cameron Dixon, EHS Support Bob O'Neill, Brown & Caldwell Jeff Caputi, Brown & Caldwell

Certification Page

I, Kristin A. VanLandingham, P.E., certify that I am currently a NYS-registered professional engineer and that this *Operations and Maintenance Report* dated March 2022 for the Former Ciba-Geigy Facility located in Queensbury Township, Glens Falls, New York was prepared in accordance with all applicable statutes and regulations, and with DER *Technical Guidance for Site Investigation and Remediation* (DER-10).

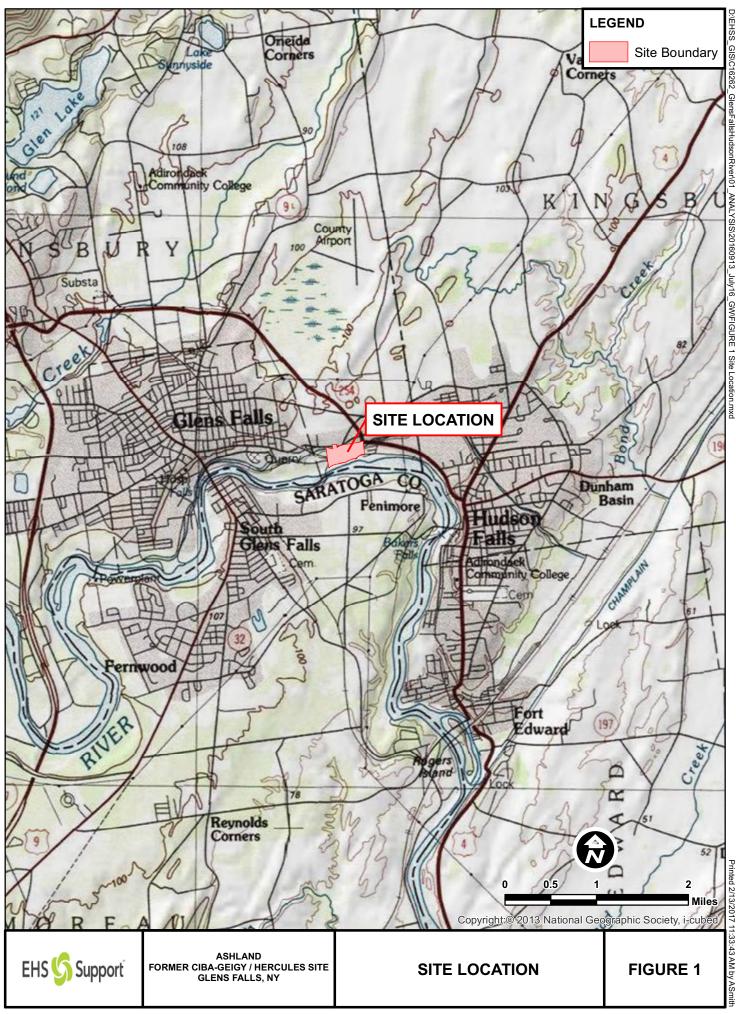
Kristin A. VanLandingham, P.E. NYS License No. 089610



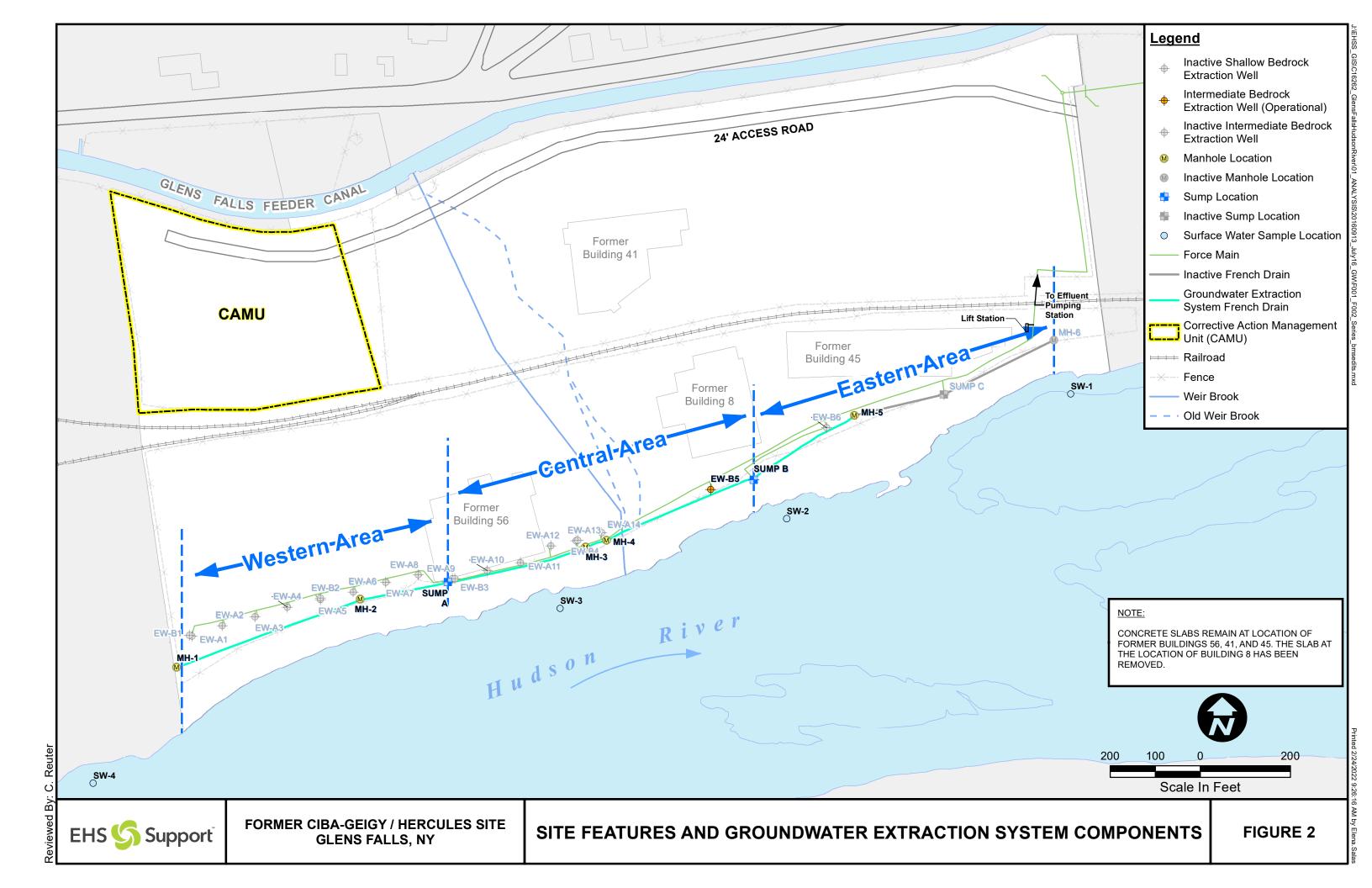
Brian Jankauskas, P.E. 2021 Operations and Maintenance Report – Former Ciba-Geigy Facility March 1, 2022

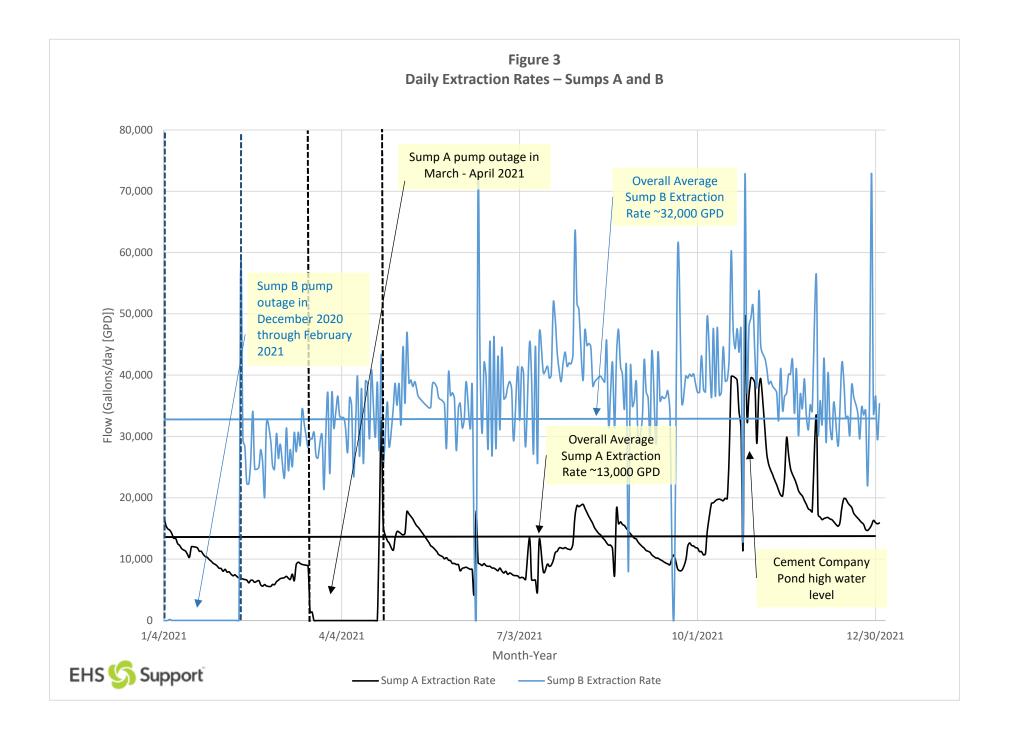


Figures



43 AM by AS





Brian Jankauskas, P.E. 2021 Operations and Maintenance Report – Former Ciba-Geigy Facility March 1, 2022



Enclosure 1 City of Glens Falls Industrial User Permit No. 002F (April 2017)

City of Glens Falls _____ America's Hometown for the 21st Century ~ a City of Opportunity

Water & Sewer Department Telephone: [518] 761-3850 24 Hr. Water & Sewer Emergencies: [518] 761-3857

• Fax: [518] 761-3862

• www.cityofglensfalls.com

Hercules LLC Ashland Inc. 5200 Blazer Parkway Dublin, Ohio 43017

Subject: Updated Permit No. 002F

The City of Glens Falls Wastewater Treatment Plant has requested and been granted a change in our Local Limits for pH by the USEPA. We requested the Local Limit for pH be changed from 6.5-8.5 Standard Units to a new limit of 6.0 to 9.0 Standard Units.

We have updated the pages of your permit for your facility at Lower Warren St., Queensbury, New York to reflect this new pH range and are enclosing a copy of the pages of your permit that outline the pH ranges. These pages should be inserted in your permit in sequence to reflect this change.

This modification will take effect on February 1^{st,} 2018.

Please feel free to contact me with any questions.

Sincerely,

DSMK

Christopher S. Miller Assistant Chief Operator Glens Falls WWTP Telephone: (518) 761-3850 ext 119 Telefax: (518) 761-3862 Email: cmiller@cityofglensfalls.com

В.

During the period commencing April 24, 2017 through midnight April 23, 2022, the discharge from the process wastewater shall not exceed the following effluent limitations. Effluent at this location consists of the discharge from the permittees' effluent pumping station treating groundwater from the Lower Warren Street site that was formerly used by Hercules, Inc. and Ciba-Geigy Inc. for the manufacture of dyes and related chemicals.

EFFLUENT LIMITATIONS

Parameter	Instantaneous Maximum (mg/1)	Quarterly Average (mg/l unless otherwise noted)
Antimony	10	<u></u>
Ammonia	40	
Arsenic	0.25	
Benzene	0.1	
Boron	5.0	
Cadmium	0.25	
Calcium	500	
Chloroform	1.0	
Chromium, total	see note below *	3.1 lb/day
Copper	1.0	
Cyanide, total	3.0	
Ethylbenzene	0.1	
Iron	50	
Lead	0.8**	
Manganese	5.0	
Mercury	0.025***	0.005
Methylene Chloride	1.0	
Napthalene	1.0	
Nickel	2.3	
Oil & Grease	50	
pH	6.0-9.0	
Phenols	5.0	
Silver	0.2	
Toluene	0.1	
1,1,1 - Trichloroethane	1.0	
Xylene	0.1	
Zinc	1.5	
Flow (gallons per day)	350,000	175,000

*The discharge for total chromium is 3.1 lb/day and will be based on the average of chromium sampling data and the quarterly average flow. This limit is based on mass balance calculations as well as the 1999 Wastewater Headworks Analysis Report.

**0.8 mg/l Lead recommended as a local limit in the 1999 Wastewater Headworks Analysis Report.

***Variance for Mercury granted by the Water and Sewer Board at the public hearing held June 24, 1991.

C. All discharges shall comply with all other applicable laws, regulations, standards, and requirements contained in Chapter 177 of the Code of the City of Glens Falls and any applicable State and Federal pretreatment laws, regulations, standards, and requirements including any such laws, regulations, standards, or requirements that may become effective during the term of this permit.

- a) Containing any liquid, solid, or gas which, by reason of its nature or quantity, is sufficient, either alone or by interaction with other substances, to cause fire or explosion or be injurious in any way to the POTW or to the operation of the POTW. At no time shall two successive readings on an explosion-hazard meter at the point of discharge in the system or at any point in the system, be more than 5% nor any single reading over 10% of the lower explosive limits (LEL) of the meter. Materials prohibited under this subsection include but are not limited to substance(s) which the Board, the DEC or the EPA has notified a user poses a fire or explosion hazard to the POTW;
- b) Containing solid or viscous substances which may cause obstruction to the flow in a sewer or other interference with the operation of the wastewater treatment facilities, such as but not limited to grease, oil or fat in concentrations exceeding 100 parts per million by weight, garbage with particles greater than ½ inch in any dimension, animal guts or tissues, paunch manure, bones, hair, hides or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, wastepaper, wood, plastics, gas, tar, asphalt residues, residues from refining or processing of fuel or lubricating oil, mud or glass grindings or polishing wastes;
- c) Having a pH less than six point zero (6.0) or higher than nine point zero (9.0) or having any other corrosive property capable of causing damage or hazard to structures, equipment or personnel of the POTW;
- d) Containing any toxic pollutants in sufficient quantity, either singly or by interaction with other pollutants, so as to potentially inhibit or interfere with the operation or performance of the POTW, constitute a hazard to humans or animals, create a toxic effect in the receiving waters of the POTW or exceed a limitation set forth in a National Categorical Pretreatment Standard. A "toxic pollutant" shall include but not be limited to any pollutant identified pursuant to Section 307 (a) of the Federal Act.
- e) Containing any wastes which either singly or by interaction with other wastes, are sufficient to create a public nuisance or hazard to life or are sufficient to prevent entry into the sewer for its maintenance and repair.
- f) Containing any substance which may cause the POTW's effluent or any other product of the POTW, such as residues, sludges or scums, to be unsuitable for reclamation and reuse or to interfere with the reclamation process. In no case shall a substance discharged to the POTW cause the POTW to be in noncompliance with the sludge use or disposal criteria, guidelines or regulations developed under Section 405 of the Act; any criteria, guidelines or regulations affecting sludge use or disposal developed pursuant to the Solid Waste Disposal Act, the Clean Air Act or the Toxic Substances Control Act; or state criteria applicable to the sludge management method being used.
- g) Containing any substance which may cause the POTW to violate its State Pollution Discharge Pollution Discharge Elimination System Permit or receiving water quality standard.
- h) Containing any objectionable color not removed in the treatment process, such as but not limited to dye wastes and vegetable tanning solutions.
- i) Having a temperature which may inhibit biological activity in the POTW treatment plant resulting in interference, but in no case wastewater with a temperature at the introduction into the POTW which exceeds forty degrees centigrade (40 degrees C.) [one hundred four degrees Fahrenheit (104 degrees F.)]

Water & Sewer Department Telephone: [518] 761-3850 24 Hr. Water & Sewer Emergencies: [518] 761-3857

• Fax: [518] 761-3862

• www.cityofglensfalls.com

April 22, 2017

Hercules LLC, a wholly owned subsidiary of Ashland Inc. 5200 Blazer Parkway Dublin, Ohio 43017

Dear James E. Vondracek,

Please find your renewed Industrial User Permit. Check for any typographical or factual errors. Contact me with any questions or concerns regarding the permit language or sampling/reporting requirements so they can be resolved as soon as possible.

Sincerely,

Laurence H Q

Lawrence Glasheen, Chief Operator **Glens Falls WWTP** 2 Shermantown Road Glens Falls 12801 Telephone: (518) 761-3850 ext 112 Telefax: (518) 761-3862 Email: Iglasheen@cityofglensfalls.com

City of Glens Falls Water and Sewer Board of Commissioners

2 Shermantown Road Glens Falls, NY 12801 Telephone: (518) 761-3850 Fax: (518) 761-3862

Permit No. 002F

INDUSTRIAL USER PERMIT

In accordance with the provisions of Chapter 177 of the Code of the City of Glens Falls

Hercules LLC, a wholly owned subsidiary of and Ashland Inc. 5200 Blazer Parkway Dublin, Ohio 43017 BASF Corporation 227 Oak Ridge Parkway Toms River, NJ 08754-0071

Are hereby authorized to discharge industrial wastewater from the above identified facility and through the outfall identified herein into the City of Glens Falls sewer system in accordance with the conditions set forth in this permit. Compliance with this permit does not relieve the permittee of its obligation to comply with any or all applicable pretreatment regulations, standards or requirements under local, State, and Federal laws, including any such regulations, standards, requirements, or laws that may become effective during the term of this permit.

Noncompliance with any term or condition of this permit shall constitute a violation of Chapter 177 of the Code of the City of Glens Falls.

This permit shall become effective on April 24, 2017 and shall expire at midnight on April 23, 2022. If the permittee wishes to continue to discharge after the expiration date of this permit, an application must be filed for a renewal permit in accordance with the requirements of Chapter 177 of the Code of the City of Glens Falls, a minimum of 180 days prior to the expiration date.

CITY OF GLENS FALLS

By:

Steven Gurzler, Water & Sewer Superintendent

Issued this 21st day of April, 2017

PART 1 - EFFLUENT LIMITATIONS

A. During the period of April 24, 2017 through midnight April 23, 2022, the permittees is authorized to discharge process wastewater to the City of Glens Falls sewer system from the outfalls listed below.

Description of outfalls:

<u>Outfall</u>

Descriptions

001

The flow from manhole number 5 located at the Glens Falls WWTP to a dedicated conveyance channel where metering and sampling takes place prior to combining with GFWWTP primary effluent. Said discharge is conveyed by a dedicated pipeline from the permittee's effluent pumping station located on Lower Warren Street. Β.

During the period commencing April 24, 2017 through midnight April 23, 2022, the discharge from the process wastewater shall not exceed the following effluent limitations. Effluent at this location consists of the discharge from the permittees' effluent pumping station treating groundwater from the Lower Warren Street site that was formerly used by Hercules, Inc. and Ciba-Geigy Inc. for the manufacture of dyes and related chemicals.

EFFLUENT LIMITATIONS

Parameter	Instantaneous Maximum (mg/1)	Quarterly Average (mg/l unless otherwise noted)
Antimony	10	
Ammonia	40	
Arsenic	0.25	
Benzene	0.1	
Boron	5.0	
Cadmium	0.25	
Calcium	500	
Chloroform	1.0	
Chromium, total	see note below *	3.1 lb/day
Copper	1.0	
Cyanide, total	3.0	
Ethylbenzene	0.1	
Iron	50	
Lead	0.8**	
Manganese	5.0	
Mercury	0.025***	0.005
Methylene Chloride	1.0	
Napthalene	1.0	
Nickel	2.3	
Oil & Grease	50	
рН	6.5-8.5	
Phenols	5.0	
Silver	0.2	
Toluene	0.1	
1,1,1 - Trichloroethane	1.0	
Xylene	0.1	
Zinc	1.5	
Flow (gallons per day)	350,000	175,000

*The discharge for total chromium is 3.1 lb/day and will be based on the average of chromium sampling data and the quarterly average flow. This limit is based on mass balance calculations as well as the 1999 Wastewater Headworks Analysis Report.

**0.8 mg/l Lead recommended as a local limit in the 1999 Wastewater Headworks Analysis Report.

***Variance for Mercury granted by the Water and Sewer Board at the public hearing held June 24, 1991.

C. All discharges shall comply with all other applicable laws, regulations, standards, and requirements contained in Chapter 177 of the Code of the City of Glens Falls and any applicable State and Federal pretreatment laws, regulations, standards, and requirements including any such laws, regulations, standards, or requirements that may become effective during the term of this permit.

PART 2 - MONITORING REQUIREMENTS

A. From the period beginning on the effective date of the permit until the expiration date, the permittee shall monitor outfall 001 for the following parameters, at the indicated frequency:

Sample <u>Parameter (units)</u>	Sample Location	Frequency	Sample Type
Flow (gpd)	See note 2	Continuous	Meter
BOD (mg/l)	See note 1,3	1/Year	Grab
TSS (mg/1)	See note 1,3	1/Year	Grab
Ammonia (mg/1)	See note 1,3	1/Year	Grab
Antimony (mg/l)	See note 1,3	1/Year	Grab
Arsenic (mg/1)	See note 1,3	1/Year	Grab
Benzene (mg/l)	See note 1,4	1/Year	Grab
Boron (mg/l)	See note 1,3	1/Year	Grab
Cadmium (mg/1)	See note 1,3	l/Year	Grab
Calcium (mg/l)	See note 1,3	1/Year	Grab
Chloroform (mg/l)	See note 1,4	1/Year	Grab
Chromium (mg/1)	See note 1,3	Quarterly	Grab
Copper (mg/1)	See note 1,3	1/Year	Grab
Cyanide (mg/1)	See note 1,3	Quarterly	Grab
Ethylbenzene (mg/l)	See note 1,4	1/Year	Grab
Iron (mg/l)	See note 1,3	1/Year	Grab
Lead (mg/1)	See note 1,3	Quarterly	Grab
Manganese (mg/l)	See note 1,3	1/Year	Grab
Mercury (mg/1)	See note 1,3	Quarterly	Grab
Methylene Chloride (mg/l)	See note 1,4	1/Year	Grab
Napthalene	See note 1,3	1/Year	Grab
Nickel (mg/1)	See note 1,3	1/Year	Grab

Sample Parameter (units)	Sample Location	<u>Frequency</u>	Sample Type
Zinc (mg/1)	See note 1,3	1/Year	Grab
Trichlorophenol (mg/1)	See note 1,4	1/Year	Grab
Pentachlorophenol (mg/l)	See note 1,4	1/Year	Grab
Oil and Grease (mg/l)	See note 1,4	1/Year	Grab
Phenols, Total (mg/l)	See note 1,3	Quarterly	Grab
рН	See note 5	Continuous	Meter
Silver (mg/l)	See note 1,3	1/Year	Grab
Toluene (mg/l)	See note 1,4	1/Year	Grab
1,1,1-Trichloroethane	See note 1,4	1/Year	Grab
Xylene (mg/l)	See note 1,4	l/Year	Grab

<u>Notes</u>

- 1. Composite sampler is located at the Southern end of the Preliminary Treatment Building at the WWTP.
- 2. Daily flows are to be recorded from the permittee's flow meter at the Southern end of the Preliminary Treatment Building at the WWTP
- 3. Composite samples shall be taken at the frequency specified above and tested by a State certified laboratory. Permittee's samples shall be 24 hour time composites except as noted above.;
- 4. Grab samples shall be taken from the effluent wet well at the Southern end of the Preliminary Treatment Building at the WWTP at the frequency specified above and tested by a State certified laboratory.
- 5. pH shall be monitored at the Southern end of the Preliminary Treatment Building at the WWTP.
- B. All handling and preservation of collected samples and laboratory analyses of samples shall be performed in accordance with 40 CFR Part 136 and amendments thereto unless specified otherwise in the monitoring conditions of this permit.

PART 3 - REPORTING REQUIREMENTS

A. Monitoring Reports

Monitoring results obtained shall be summarized and reported on an Industrial User Monitoring Report Form once per quarter. The reports are due on the 28th day of the following month. The report shall indicate the nature and concentration of all pollutants in the effluent for which sampling and analyses were performed including measured maximum and average daily flows.

- B. If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 or amendments thereto, or otherwise approved by EPA or as specified in this permit, the results of such monitoring shall be included in any calculations of actual daily maximum or monthly average pollutant discharge and results shall be reported in the monthly report submitted to the City of Glens Falls. Such increased monitoring frequency shall also be indicated in the monthly report.
- C. Automatic Resampling

If the results of the permittee's wastewater analysis indicate that a violation of this permit has occurred, the permittee must:

- 1. Inform the City of Glens Falls of the violation within 24 hours; and
- 2. Repeat the sampling and pollutant analysis and submit, in writing, the results of this second analysis within 30 days of the first violation.

D. Accidental Discharge Report

1. The permittee shall notify the City of Glens Falls immediately upon the occurrence of an accidental discharge of substances prohibited by Chapter 177 of the Code of the City of Glens Falls or any slug loads or spills that may enter the public sewer. The City of Glens Falls should be notified by telephone at (518) 761-3850. The notification shall include location of discharge, date and time thereof, type of waste, including concentration and volume, and corrective actions taken. The permittee's notification of accidental releases in accordance with this section does not relieve it of other reporting requirements that arise under local, State, or Federal laws.

Within five days following an accidental discharge, the permittee shall submit to the City of Glens Falls a detailed written report. The report shall specify:

- a. Description and cause of the upset, slug load or accidental discharge, the cause thereof, and the impact on the permittee's compliance status. The description should also include location of discharge, type, concentration and volume of waste.
- b. Duration of noncompliance, including exact dates and times of noncompliance and, if the noncompliance is continuing, the time by which compliance is reasonably expected to occur.
- c. All steps taken or to be taken to reduce, eliminate, and/or prevent recurrence of such an upset, slug load, accidental discharge, or other conditions of noncompliance.
- E. All reports required by this permit shall be submitted to the City of Glens Falls at the following address:

City of Glens Falls Attn.: Pretreatment Coordinator 2 Shermantown Rd. Glens Falls, NY 12801

PART 4 - SPECIAL CONDITIONS

SECTION 1 - ADDITIONAL/SPECIAL MONITORING REQUIREMENTS.

A. No Special Monitoring Requirements are applicable at this time.

SECTION 2 - REOPENER CLAUSE

- A. This permit may be reopened and modified to incorporate any new or revised requirements contained in a National Categorical Pretreatment Standard.
- B. This permit may be reopened and modified to incorporate any new or revised requirements resulting from the City of Glens Falls' reevaluation of its local limits.
- C. This permit may be reopened and modified to incorporate any new or revised requirements developed by the City of Glens Falls as are necessary to ensure POTW compliance with any and all regulatory standards.

PART 5 - STANDARD CONDITIONS

SECTION A. GENERAL CONDITIONS AND DEFINITIONS

1. <u>Severability</u>

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

2. Duty to comply

The permittee must comply with all conditions of this permit. Failure to comply with the requirements of this permit may be grounds for administrative action, or enforcement proceedings including civil or criminal penalties, injunctive relief, and summary abatements.

3. <u>Duty to mitigate</u>

The permittee shall take all reasonable steps to minimize or correct any adverse impact to the public treatment plant or the environment resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

4. <u>Permit Modification</u>

This permit may be modified for good causes including, but not limited to, the following:

- a. To incorporate any new or revised Federal, State, or local pretreatment standards or requirements.
- b. Material or substantial alterations or additions to the discharger's operation processes, or discharge volume or character which were not considered in drafting the effective permit.

- c. A change in any condition in either the industrial user or the POTW that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- d. Information indicating that the permitted discharge poses a threat to the Control Authority's collection and treatment systems, POTW personnel or the receiving waters.
- e. Violation of any terms or conditions of the permit.
- f. Misrepresentation or failure to disclose fully all relevant facts in the permit application or in any required reporting.
- g. Revision of or a grant of variance from such categorical standards pursuant to 40 CFR 403.13.
- h. To correct typographical or other errors in the permit.
- i. To reflect transfer of the facility ownership and/or operation to a new/operator.
- j. Upon request of the permittee, provided such request does not create a violation of any applicable requirements, standards, laws, or rules and regulations.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

5. <u>Permit Termination</u>

This permit may be terminated for the following reasons:

- a. Falsifying self-monitoring reports
- b. Tampering with monitoring equipment
- c. Refusing to allow timely access to the facility premises and records
- d. Failure to meet effluent limitations
- e. Failure to pay fines
- f. Failure to pay sewer charges
- g. Failure to meet compliance schedules

6. Permit Appeals

The permittee may petition to appeal the terms of this permit within thirty (30) days of the notice.

The petition must be in writing; failure to submit a petition for review shall be deemed to be a waiver of the appeal. In its petition, the permittee must indicate the permit provisions objected to, the reasons for this objection, and the alternative condition, if any, it seeks to be placed in the permit.

7. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any violation of Federal, State, or local laws or regulations.

8. Limitation on Permit Transfer

Permits may be reassigned or transferred to a new owner and/or operator with prior approval of the City of Glens Falls:

- a. The permittee must give at least thirty (30) days advance notice to the City of Glens Falls
- b. The notice must include a written certification by the new owner which:
 - (i) States that the new owner has no immediate intent to change the facility's operations and processes
 - (ii) Identifies the specific date on which the transfer is to occur
 - (iii) Acknowledges full responsibility for complying with the existing permit.

9. <u>Duty to Reapply</u>

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must submit an application for a new permit at least 180 days before the expiration date of this permit.

10. <u>Continuation of Expired Permits</u>

An expired permit will continue to be effective and enforceable until the permit is reissued if:

- a) The permittee has submitted a complete permit application at least 180 days prior to the expiration date of the user's existing permit.
- b) The failure to reissue the permit, prior to expiration of the previous permit, is not due to any act or failure to act on the part of the permittee.

11. <u>Dilution</u>

The permittee shall not increase the use of potable or process water or, in any way, attempt to dilute an effluent as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.

- 12. Definitions
 - a) <u>Daily Maximum</u> The maximum allowable discharge of pollutant during a calendar day. Where daily maximum limitations are expressed in units of mass, the daily discharge is the total mass discharged over the course of the day. Where daily maximum limitations are expressed in terms of a concentration, the daily discharge is the arithmetic average measurement of the pollutant concentration derived from all measurements taken that day.

- b) <u>Composite Sample</u> A sample that is collected over time, formed either by continuous sampling or by mixing discrete samples. The sample may be composited either as a <u>time composite sample</u>: composed of discrete sample aliquots collected in one container at constant time intervals providing representative samples irrespective of stream flow; or as a <u>flow proportional composite</u> <u>sample</u>: collected either as a constant sample volume at time intervals proportional to stream flow, or collected by increasing the volume of each aliquot as the flow increases while maintaining a constant time interval between the aliquots.
- c) <u>Grab Sample</u> An individual sample collected in less than 15 minutes, without regard for flow or time.
- d) <u>Instantaneous Maximum Concentration</u> The maximum concentration allowed in any single grab sample.
- e) <u>Cooling Water</u> -
 - (1) Uncontaminated: Water used for cooling purposes only which has no direct contact with any raw material, intermediate, or final product and which does not contain a level of contaminants detectably higher than that of the intake water.
 - (2) Contaminated: Water used for cooling purposes only which may become contaminated either through the use of water treatment chemicals used for corrosion inhibitors or biocides, or by direct contact with process materials and/or wastewater.
- f) <u>Monthly Average</u> The arithmetic mean of the values for effluent samples collected during a calendar month.
- g) <u>Weekly Average</u> The arithmetic mean of the values for effluent samples collected over a period of seven consecutive days.
- h) <u>Bi-Weekly</u> Once every other week.
- i) <u>Bi- Monthly</u> Once every other month
- j) <u>Quarterly</u> The arithmetic mean of the values for effluent samples collected during a calendar quarter.
- <u>Upset</u> Means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee, excluding such factors as operational error, improperly designed or inadequate treatment facilities, or improper operation and maintenance or lack thereof.
- 1) <u>Bypass</u> Means the intentional diversion of wastes from any portion of a treatment facility.

13. General Prohibitive Standards

The permittee shall comply with all the general prohibitive discharge standards in Chapter 177 of the Code of the City of Glens Falls. No user shall contribute or cause to be contributed, directly or indirectly, any pollutant, wastewater, or other material which will inhibit or interfere with the operation or performance of the POTW or the use or disposal of the sludge generated by the POTW or pass through the POTW without adequate treatment in violation of any applicable federal, state, or local environmental regulation into the receiving waters of the Hudson River or into the sludge by-product of the POTW. These general prohibitions apply to all such users of a POTW, whether or not the user is subject to National Categorical Pretreatment Standards or any other national, state, or local pretreatment standards or requirements. Namely, the industrial user shall not discharge wastewater to the sewer system:

- a) Containing any liquid, solid, or gas which, by reason of its nature or quantity, is sufficient, either alone or by interaction with other substances, to cause fire or explosion or be injurious in any way to the POTW or to the operation of the POTW. At no time shall two successive readings on an explosion-hazard meter at the point of discharge in the system or at any point in the system, be more than 5% nor any single reading over 10% of the lower explosive limits (LEL) of the meter. Materials prohibited under this subsection include but are not limited to substance(s) which the Board, the DEC or the EPA has notified a user poses a fire or explosion hazard to the POTW;
- b) Containing solid or viscous substances which may cause obstruction to the flow in a sewer or other interference with the operation of the wastewater treatment facilities, such as but not limited to grease, oil or fat in concentrations exceeding 100 parts per million by weight, garbage with particles greater than ½ inch in any dimension, animal guts or tissues, paunch manure, bones, hair, hides or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, wastepaper, wood, plastics, gas, tar, asphalt residues, residues from refining or processing of fuel or lubricating oil, mud or glass grindings or polishing wastes;
- c) Having a pH less than six point five (6.5) or higher than eight point five (8.5) or having any other corrosive property capable of causing damage or hazard to structures, equipment or personnel of the POTW;
- d) Containing any toxic pollutants in sufficient quantity, either singly or by interaction with other pollutants, so as to potentially inhibit or interfere with the operation or performance of the POTW, constitute a hazard to humans or animals, create a toxic effect in the receiving waters of the POTW or exceed a limitation set forth in a National Categorical Pretreatment Standard. A "toxic pollutant" shall include but not be limited to any pollutant identified pursuant to Section 307 (a) of the Federal Act.
- e) Containing any wastes which either singly or by interaction with other wastes, are sufficient to create a public nuisance or hazard to life or are sufficient to prevent entry into the sewer for its maintenance and repair.
- f) Containing any substance which may cause the POTW's effluent or any other product of the POTW, such as residues, sludges or scums, to be unsuitable for reclamation and reuse or to interfere with the reclamation process. In no case shall a substance discharged to the POTW cause the POTW to be in noncompliance with the sludge use or disposal criteria, guidelines or regulations developed under Section 405 of the Act; any criteria, guidelines or regulations affecting sludge use or disposal developed pursuant to the Solid Waste Disposal Act, the Clean Air Act or the Toxic Substances Control Act; or state criteria applicable to the sludge management method being used.
- g) Containing any substance which may cause the POTW to violate its State Pollution Discharge Pollution Discharge Elimination System Permit or receiving water quality standard.
- h) Containing any objectionable color not removed in the treatment process, such as but not limited to dye wastes and vegetable tanning solutions.
- i) Having a temperature which may inhibit biological activity in the POTW treatment plant resulting in interference, but in no case wastewater with a temperature at the introduction into the POTW which exceeds forty degrees centigrade (40 degrees C.) [one hundred four degrees Fahrenheit (104 degrees F.)]

- j) Containing any pollutants, including oxygen-demanding pollutants (BOD, etc.), released at a flow rate and/or pollutant concentration which will cause interference to the POTW. In no case shall a slug load have a flow rate or contain concentrations or qualities of pollutants that exceed, for any time period longer than fifteen (15) minutes, more than five (5) times the average twenty-four hour concentration quantities or flow during normal operation.
- k) Containing any radioactive waste or isotopes of such half-life or concentration as may exceed limits established by the Board in compliance with applicable state or federal regulatons or limits set forth in any applicable federal, state, or local pollutant discharge regulation.
- 1) Containing suspended solids of such character and quantity that unusual attention or expense is required to handle such materials at the sewage treatment plant.
- m) Containing any substance which exceeds a national categorical pretreatment standsrd promulgated by the EPA or any other applicable federal, state or local pollutant discharge regulation.
- n) Containing any medical or infectious wastes;
- containing any gasoline, benzene, naptha, fuel oil or other flammable or explosive liquids, solids or gases; and in no case pollutants with a closed cup flashpoint of less than one hundred forty (140) degrees Fahrenheit (60 degrees C), or pollutants which cause an exceedance of 10 percent of the Lower Explosive Limit (LEL) at any point within the POTW.

14. Compliance with Applicable Pretreatment Standards and Requirements

Compliance with this permit does not relieve the permittee from its obligations regarding compliance with any and all applicable local, State and Federal pretreatment standards and requirements including any such standards or requirements that may become effective during the term of this permit.

SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes but is not limited to: effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

2. Duty to Halt or Reduce Activity

Upon reduction of efficiency of operation, or loss or failure of all or part of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control its production or discharges (or both) until operation of the treatment facility is restored or an alternative method of treatment is provided. This requirement applies, for example, when the primary source of power of the treatment facility fails or is reduced. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

3. Bypass of Treatment Facilities

- a) Bypass is prohibited unless it is unavoidable to prevent loss of life, personal injury, or severe property damage or no feasible alternatives exist.
- b) The permittee may allow bypass to occur which does not cause effluent limitations to be exceeded, but only if it is also for essential maintenance to assure efficient operation.
- c) Notification of bypass:
 - (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior written notice, at least ten days before the date of the bypass, to the City of Glens Falls
 - (2) Unanticipated bypass. The permittee shall immediately notify the City of Glens Falls and submit a written notice to the POTW within 5 days. This report shall specify:
 - (i) A description of the bypass, and its cause, including its duration;
 - (ii) Whether the bypass has been corrected; and
 - (iii) The steps being taken or to be taken to reduce, eliminate and prevent a reoccurrence of the bypass.

4. <u>Removed Substances</u>

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in accordance with section 405 of the Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act or in accordance with the latest appropriate State and/or Federal requirements.

SECTION C. MONITORING AND RECORDS

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water or substance. All equipment used for sampling and analysis must be routinely calibrated, inspected and maintained to ensure their accuracy. Monitoring points shall not be changed without notification to and the approval of the City of Glens Falls.

2. Flow Measurements

If flow measurement is required by this permit, the appropriate flow measurement devices and methods consistent with approved scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10 percent from true discharge rates throughout the range of expected discharge volumes.

3. Analytical Methods to Demonstrate Continued Compliance

All sampling and analysis required by this permit shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto, otherwise approved by EPA, or as specified in this permit.

4. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures identified in Section C.3, the results of this monitoring shall be included in the permittee's self-monitoring reports.

5. Inspection and Entry

The permittee shall allow the City of Glens Falls, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit;
- d) Sample or monitor, for the purposes of assuring permit compliance, any substances or parameters at any location; and
- e) Inspect any production, manufacturing, fabricating, or storage are where pollutants, regulated under the permit, could originate, be stored, or be discharged to the sewer system.

6. <u>Retention of Records</u>

a) The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurements, report or application.

This period may be extended by request of the City of Glens Falls at any time.

b) All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the City of Glens Falls shall be retained and preserved by the permittee until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

7. <u>Record Contents</u>

Records of sampling and analyses shall include:

- a) The date, exact place, time, and methods of sampling or measurements, and sample preservation techniques or procedures;
- b) Who performed the sampling or measurements;
- c) The date(s) analyses were performed;

- d) Who performed the analyses;
- e) The analytical techniques or methods used; and
- f) The results of such analyses.

8. <u>Falsifying Information</u>

Knowingly making any false statement on any report or other document required by this permit or knowingly rendering any monitoring device or method inaccurate, is a crime and may result in the imposition of criminal sanctions and/or civil penalties.

SECTION D. ADDITIONAL REPORTING REQUIRMENTS

1. Planned Changes

The permittee shall give notice to the City of Glens Falls 90 days prior to any facility expansion, production increase, or process modifications which results in new or substantially increased discharges or a change in the nature of the discharge.

2. <u>Anticipated Noncompliance</u>

The permittee shall give advance notice to the City of Glens Falls of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. <u>Automatic Resampling</u>

If the results of the permittee's wastewater analysis indicates a violation has occurred, the permittee must notify the City of Glens Falls within 24 hours of becoming aware of the violation and repeat the sampling and pollutant analysis and submit, in writing, the results of this repeat analysis within 30 days after becoming aware of the violation.

4. Duty to Provide Information

The permittee shall furnish to the City of Glens Falls within 10 days any information which the City of Glens Falls may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also, upon request, furnish to the City of Glens Falls within 10 days copies of any records required to be kept by this permit.

5. <u>Signatory Requirements</u>

All applications, reports, or information submitted to the City of Glens Falls must contain the following certification statement and be signed as required in Sections (a), (b), (c) or (d) below:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

a) By a responsible corporate officer, if the Industrial User submitting the reports is a corporation. For the purpose of this paragraph, a responsible corporate officer means:

- a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decisionmaking functions for the corporation, or;
- (ii) the manager of one or more manufacturing, production, or operation facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million, if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- b) By a general partner or proprietor if the Industrial User submitting the reports is a partnership or sole proprietorship respectively.
- c) The principal executive officer or director having responsibility for the overall operation of the discharging facility if the Industrial User submitting the reports is a Federal, State, or local governmental entity, or their agents.
- d) By a duly authorized representative of the individual designated in paragraph (a), (b), or (c);
 - (i) the authorization is made in writing by the individual described in paragraph (a), (b), or
 (c);
 - (ii) the authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the Industrial Discharge originates, such as the position of plant manager, operator of a well, or a well field superintendent, or a position of equivalent responsibility, or having overall responsibility for environmental matters for the company; and
 - (iii) the written authorization is submitted to the City.
- e) If an authorization under paragraph (d) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for the environmental matters for the company, a new authorization satisfying the requirements of paragraph (d) of this section must be submitted to the City of Glens Falls prior to or together with any reports to be signed by an authorized representative.
- 6. Operating Upsets

Any permittee that experiences an upset in operations that places the permittee in a temporary state of noncompliance with the provision of either this permit or with any section of Chapter 177 of the Code of the City of Glens Falls, shall inform the City of Glens Falls within 24 hours of becoming aware of the upset at (518) 761-3850.

A written follow-up report of the upset shall be filed by the permittee with the City of Glens Falls within five days. The report shall specify:

- a) Description of the upset, the cause(s) thereof and the upset's impact on the permittee's compliance status;
- b) Duration of noncompliance, including exact dates and times of noncompliance, and if not corrected, the anticipated time the noncompliance is expected to continue; and
- c) All steps taken or to be taken to reduce, eliminate and prevent recurrence of such an upset.

The report must also demonstrate that the treatment facility was being operating in an appropriate manner.

A documented and verified operating upset shall be an affirmative defense to any enforcement action brought

against the permittee for violations attributable to the upset event.

7. <u>Annual Publication</u>

A list of all industrial users which were subject to enforcement proceedings during the twelve (12) previous months shall be annually published by the City of Glens Falls in the largest daily newspaper within its service area. Accordingly, the permittee is apprised that noncompliance with this permit may lead to an enforcement action and may result in publication of its name in an appropriate newspaper in accordance with this section.

8. <u>Civil and Criminal Liability</u>

Nothing in this permit shall be construed to relieve the permittee from civil and/or criminal penalties for noncompliance under Chapter 177 of the Code of the City of Glens Falls or State or Federal laws or regulations.

9. Penalties for Violations of Permit Conditions

The City of Glens Falls provides that any person who violates a permit condition is subject to administrative penalties of up to \$5000 per violation per day and civil penalties of up to \$5000 per violation per day. Any person who willfully or negligently violates permit conditions is subject to criminal penalties of \$5000 per violation per day, or imprisonment for six months, or both. The permittee may also be subject to sanctions under State and/or Federal law.

10. <u>Recovery of Costs Incurred</u>

In addition to civil and criminal liability, the permittee violating any of the provisions of this permit or Chapter 177 of the Code of the City of Glens Falls or causing damage to or otherwise inhibiting the City of Glens Falls wastewater disposal system shall be liable to the City of Glens Falls for any expense, loss, or damage caused by such violation or discharge. The City of Glens Falls shall bill the permittee for the costs incurred by the City of Glens Falls for any cleaning, repair, or replacement work caused by the violation or discharge. Refusal to pay the assessed costs shall constitute a separate violation of Chapter 177 of the Code of the City of Glens Falls.

Brian Jankauskas, P.E. 2021 Operations and Maintenance Report – Former Ciba-Geigy Facility March 1, 2022



Enclosure 2 2021 Discharge Monitoring Reports



Hercules Incorporated 5475 Rings Rd., Suite 500 Atrium North Tower Dublin, Ohio 43017

April 28, 2021

Mr. Chris Miller Glens Falls Wastewater Treatment Plant Water and Sewer Department 2 Shermantown Road Glens Falls, New York 12801

RE: Discharge Monitoring Report for 1st Quarter 2021 Industrial Wastewater - Discharge Permit No. 002F

Dear Mr. Miller:

Attached is the 1st Quarter 2021 Discharge Monitoring Report for the Hercules/Ciba site. The wastewater sample was collected on February 22, 2021. All parameters meet the limits of the wastewater discharge permit effective April 23, 2007 which was subsequently renewed in April 2012 and April 2017.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you have any questions, please contact me at (614) 790-6146.

Sincerely,

ann Hadan

James E. Vondracek, P.E. Principal Remediation Engineer

Attachments cc: Stephen K. Havlik, BASF Corporation, Toms River, NJ ATTACHMENT 1

DISCHARGE DATA

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:	Test America						
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH			
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total	Total	Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pН	gpd
POTW Permit or m	nin					6.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quarterly ave.			0.005				175,000
In Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Quarterly min.	0.19	0.00	0.0000	0.55	0.00	6.7	4,000
Quarterly ave.	0.19	0.00	0.0000	0.55	0.00	6.8	24,233
Quarterly max.	0.19	0.00	0.0000	0.55	0.00	7.3	73,000
Data points	1	1	1	1	1	90	90
F					-		
Date:							
01/01/21						6.8	16,000
01/02/21						7.1	11,000
01/03/21						7.0	13,000
01/04/21						7.0	14,000
01/05/21						7.0	13,000
01/06/21						7.1	12,000
01/07/21						7.0	14,000
01/08/21						7.1	12,000
01/09/21						7.0	12,000
01/10/21						6.8	9,000
01/11/21						6.8	12,000
01/12/21						7.1	9,000
01/13/21						6.8	10,000
01/14/21						6.9	11,000
01/15/21						6.8	13,000
01/16/21						6.7	10,000
01/17/21						6.8	10,000
01/18/21						6.8	14,000
01/19/21						6.9	10,000
01/20/21						6.7	9,000
01/21/21						6.9	14,000
01/22/21						6.9	9,000
01/23/21						6.9	10,000
01/24/21						6.7	13,000
01/25/21						6.8	9,000
01/26/21						6.8	9,000
01/27/21						6.9	9,000
01/28/21						6.8	9,000
01/29/21						6.8	9,000
01/30/21						6.7	9,000
01/31/21						6.7	9,000

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:	Test America						
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH			
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total	Total	Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pН	gpd
POTW Permit or m	in					6.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quarterly ave.			0.005				175,000
2							· · · · · · · · · · · · · · · · · · ·
In Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Quarterly min.	0.19	0.00	0.0000	0.55	0.00	6.7	4.000
Quarterly ave.	0.19	0.00	0.0000	0.55	0.00	6.8	24,233
Quarterly max.	0.19	0.00	0.0000	0.55	0.00	7.3	73,000
Data points	1	1	1	1	1	90	90
•							
Date:							
02/01/21						6.7	6,000
02/02/21						6.9	10,000
02/03/21						6.8	9.000
02/03/21						6.7	5,000
02/05/21						7.0	8,000
02/06/21						6.8	10,000
02/07/21						6.7	4,000
02/08/21						6.9	8,000
02/09/21						7.0	5,000
02/10/21						6.9	10,000
02/11/21						7.0	5,000
02/12/21						7.0	73,000
02/13/21						6.9	40,000
02/14/21						6.8	33,000
02/15/21						6.7	34,000
02/16/21						6.9	29,000
02/17/21						6.9	35,000
02/18/21						6.9	39,000
02/19/21						6.9	33,000
02/20/21						6.7	40,000
02/21/21						6.7	32,000
02/22/21	0.190	0.0015 J	ND	0.55	0.031 J	6.7	35,000
02/23/21						6.8	31,000
02/24/21						6.7	29,000
02/25/21						7.0	34,000
02/26/21						6.9	42,000
02/27/21						6.7	32,000
02/28/21						6.7	38,000

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:	Test America	Test America	Test America	Test America	Test America		
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH			
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total		Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pН	gpd
POTW Permit or m						6.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quarterly ave.			0.005				175,000
In Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Quarterly min.	0.19	0.00	0.0000	0.55	0.00	6.7	4.000
Quarterly ave.	0.19	0.00	0.0000	0.55	0.00	6.8	24,233
Quarterly max.	0.19	0.00	0.0000	0.55	0.00	7.3	73,000
Data points	<u> </u>	0.00	0.0000	0.55	0.00	90	90
Data points	I	I	I	I	I	90	90
Date:							
03/01/21						6.7	32000.00
03/02/21						7.0	37,000
03/03/21						6.7	46,000
03/04/21						6.7	30,000
03/05/21						6.9	29,000
03/06/21						6.7	38,000
03/07/21						6.8	41,000
03/08/21						6.9	33,000
03/09/21						6.9	36,000
03/10/21						6.7	34,000
03/11/21						6.7	40,000
03/12/21						6.8	38,000
03/13/21						6.9	43,000
03/14/21						6.8	41,000
03/15/21						6.7	
03/16/21							<u>49,000</u> 37,000
						6.8	
03/17/21						<u>6.9</u> 6.7	47,000
03/18/21							43,000
03/19/21						6.9	34,000
03/20/21						6.8	34,000
03/21/21						6.7	27,000
03/22/21						6.7	37,000
03/23/21						6.8	29,000
03/24/21						6.7	36,000
03/25/21						6.7	30,000
03/26/21						6.7	29,000
03/27/21						7.2	34,000
03/28/21						7.1	41,000
03/29/21						7.3	27,000
03/30/21					·	7.2	41,000
03/31/21						7.1	36,000
Quarterly Average							
Concentration	0.19 m						
Ave. Flow Ave. Load	24,233 gp 0.04 #/						
PERMIT	3.10 #/						
Notes:	5.10 #/	aay					
ND = Non-Detect. \	alue reported to be	e below the labo	ratory Reporting	Limit			
NS: No Standard. N	•		, , ,				
The laboratory Repo							
	orting Limit for Merc						
ne laboratory Repo	orting Limit for Pher	101s is 0.050 mg	′L.				

ATTACHMENT 2

ANALYTICAL DATA

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

Laboratory Job ID: 680-195467-1

Client Project/Site: Hercules Glens Falls O&M Quarterly POTW

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Affin Barnott

Authorized for release by: 3/5/2021 7:02:05 AM

Eddie Barnett, Project Manager I (912)250-0280 Eddie.Barnett@Eurofinset.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

.....Links **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env

Definitions/Glossary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

2

Qualifiers

DER

DL

Dil Fac

Metals		
Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	_
U	Indicates the analyte was analyzed for but not detected.	5
General Che	mistry	
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	0
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	3
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	

DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

Detection Limit (DoD/DOE)

Duplicate Error Ratio (normalized absolute difference)

LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

Dilution Factor

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

ML Minimum Level (Dioxin)

MPN Most Probable Number

MQL Method Quantitation Limit NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent

POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive

QC Quality Control RER Relative Error Rat

 RER
 Relative Error Ratio (Radiochemistry)

 RL
 Reporting Limit or Requested Limit (Radiochemistry)

- RPD Relative Percent Difference, a measure of the relative difference between two points
- TEF Toxicity Equivalent Factor (Dioxin)
- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Sample Summary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID	
680-195467-1	POTW_20210222	Water	02/22/21 13:00	02/26/21 12:50		4
						5
						8
						9

3/5/2021

Job ID: 680-195467-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE Client: Ashland LLC

Project: Hercules Glens Falls O&M Quarterly POTW

Report Number: 680-195467-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The sample was received on 02/26/2021; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

TOTAL METALS (ICPMS)

Sample POTW_20210222 (680-195467-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared on 02/27/2021 and analyzed on 03/02/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW_20210222 (680-195467-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared on 03/03/2021 and analyzed on 03/04/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW_20210222 (680-195467-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared and analyzed on 02/28/2021.

Sample POTW_20210222 (680-195467-1)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW_20210222 (680-195467-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared and analyzed on 03/01/2021.

Phenolics, Total Recoverable recovered high for the MSD of sample POTW_20210222MSD (680-195467-1) in batch 680-657577. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-195467-1

Lab Sample ID: 680-195467-1

Client Sample ID: POTW_20210222	
Date Collected: 02/22/21 13:00	

ate Collected: 02/22/21 13:00 Matrix: Water Nate Received: 02/26/21 12:50											
_ Method: 200.8 - Metals (ICP/MS)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chromium	190		5.0	1.6	ug/L		02/27/21 15:27	03/02/21 00:07	1		
Lead	1.5	J	2.5	0.98	ug/L		02/27/21 15:27	03/02/21 00:07	1		
_ Method: 245.1 - Mercury (CVAA)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Mercury	0.20	U	0.20	0.080	ug/L		03/03/21 15:31	03/04/21 13:37	1		
General Chemistry											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Cyanide, Total	0.55		0.050	0.013	mg/L		02/28/21 13:45	02/28/21 16:44	5		
Phenolics, Total Recoverable	0.031	J F1	0.050	0.025	mg/L		03/01/21 10:20	03/01/21 15:47	1		

QC Sample Results

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-195467-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-657377/1-A											Client Sa	ample ID: Metho	
Matrix: Water												Prep Type:	Total/N/
Analysis Batch: 657582												Prep Batch	: 65737
	MB	MB											
Analyte	Result	Qualifier		RL		MDL	Unit		D	P	repared	Analyzed	Dil Fa
Chromium	5.0	U		5.0		1.6	ug/L			02/2	7/21 15:27	03/01/21 23:39	
Lead	2.5	U		2.5		0.98	ug/L			02/2	7/21 15:27	03/01/21 23:39	
Lab Sample ID: LCS 680-657377/2-A									С	lient	Sample	ID: Lab Control	Sampl
Matrix: Water												Prep Type:	Total/N
Analysis Batch: 657582												Prep Batch	: 65737
			Spike			LCS						%Rec.	
Analyte			Added		Result	Qual	lifier	Unit		<u>D</u>	%Rec	Limits	
Chromium			100		111			ug/L			111	85 - 115	
Lead			454		499			ug/L			110	85 - 115	
lethod: 245.1 - Mercury (CVAA)													
Lab Sample ID: MB 680-657879/1-A											Client Sa	ample ID: Metho	od Blan
Matrix: Water												Prep Type:	Total/N
Analysis Batch: 658066												Prep Batch	: 65 787
	MB	MB											
Analyte	Result	Qualifier		RL	_	MDL	Unit		D	_ P	repared	Analyzed	Dil Fa
Mercury	0.20	U		0.20	(0.080	ug/L			03/0	3/21 15:31	03/04/21 13:22	
Lab Sample ID: LCS 680-657879/3-A									C	liont	Samplo	ID: Lab Control	Sample
Matrix: Water									Ŭ	nem	Jampie	Prep Type:	
Analysis Batch: 658066												Prep Batch	
Analysis Baten. 000000			Spike		LCS	LCS						%Rec.	. 03/0/
Analyte			Added		Result			Unit		D	%Rec	Limits	
Mercury			2.50		2.73			ug/L			109	85 - 115	
lethod: 335.4 - Cyanide, Total													
Lab Sample ID: MB 680-657413/12-A											Client Sa	ample ID: Metho	od Blani
Matrix: Water												Prep Type:	
Analysis Batch: 657415												Prep Batch	
	мв	мв										Trop Daton	
Analyte		Qualifier		RL		MDL	Unit		D	Р	repared	Analyzed	Dil Fa
Cyanide, Total	0.010			0.010		.0025					8/21 13:45	02/28/21 15:24	
Lab Sample ID: LCS 680-657413/13-A									C	lient	Sample	ID: Lab Control	Sampl
Matrix: Water									Ŭ		Sample	Prep Type:	
Analysis Batch: 657415												Prep Batch	
Analysis Batom our 410			Spike		LCS	LCS						%Rec.	
			Added		Result			Unit		D	%Rec	Limits	
Analyte					····	-				-	,		
			0.0500		0.0485			mg/L			97	90 - 110	
Cyanide, Total	Recove	rable	0.0500		0.0485			mg/L			97	90 - 110	
Cyanide, Total	Recove	rable	0.0500		0.0485			mg/L					
Analyte Cyanide, Total Iethod: 420.1 - Phenolics, Total F Lab Sample ID: MB 680-657454/1-A Matrix: Water	Recove	rable	0.0500		0.0485			mg/L				90 - 110 ample ID: Metho Prep Type:	

Matrix: Water Analysis Batch: 657577	-							Prep Type: 1 Prep Batch:	Total/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		03/01/21 10:20	03/01/21 17:00	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-195467-1

Method: 420.1 - Phenolics, Total Recoverable

Client: Ashland LLC Project/Site: Hercules Glens Fall	ls O&M Quarte	erly POTW							JOD ID.	680-195	407-1	
Method: 420.1 - Phenolics	, Total Rec	overable										
Lab Sample ID: LCS 680-6574	154/2-A						Client	t Sample	D: Lab C	ontrol Sa	ample	
Matrix: Water										Type: Tot		
Analysis Batch: 657577										Batch: 6	57454	
			Spike		LCS				%Rec.			
Analyte			Added		Qualifier	Unit	<u>D</u>	%Rec	Limits			
Phenolics, Total Recoverable			0.100	0.115		mg/L		115	75 - 125			
Lab Sample ID: 680-195467-1	MS						Cli	i <mark>ent Sam</mark>	ple ID: PO	0TW_202	10222	
Matrix: Water									Prep [·]	Type: Tot	tal/NA	
Analysis Batch: 657577									Prep	Batch: 6	57454	
	Sample	Sample	Spike	MS	MS				%Rec.			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Phenolics, Total Recoverable	0.031	J F1	0.100	0.157		mg/L		125	75 - 125			
	MSD						Cli	ient Sam	ple ID: PO)TW_202 [,]	10222	
Matrix: Water									Prep	Type: Tot	tal/NA	
Analysis Batch: 657577									Prep	Batch: 6	57454	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Phenolics, Total Recoverable	0.031	J F1	0.100	0.166	F1	mg/L		135	75 _ 125	6	30	

QC Association Summary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-195467-1

Metals

Prep Batch: 657377

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-195467-1	POTW_20210222	Total/NA	Water	200.8	
MB 680-657377/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-657377/2-A	Lab Control Sample	Total/NA	Water	200.8	
Analysis Batch: 65758	2				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-195467-1	POTW_20210222	Total/NA	Water	200.8	657377
MB 680-657377/1-A	Method Blank	Total/NA	Water	200.8	657377
LCS 680-657377/2-A	Lab Control Sample	Total/NA	Water	200.8	657377
Prep Batch: 657879					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-195467-1	POTW_20210222	Total/NA	Water	245.1	
MB 680-657879/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-657879/3-A	Lab Control Sample	Total/NA	Water	245.1	
Analysis Batch: 65806	6				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-195467-1	POTW_20210222	Total/NA	Water	245.1	657879
MB 680-657879/1-A	Method Blank	Total/NA	Water	245.1	657879
LCS 680-657879/3-A	Lab Control Sample	Total/NA	Water	245.1	657879

General Chemistry

Prep Batch: 657413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-195467-1	POTW_20210222	Total/NA	Water	Distill/CN	
MB 680-657413/12-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-657413/13-A	Lab Control Sample	Total/NA	Water	Distill/CN	
Analysis Batch: 65741	5				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-195467-1	POTW_20210222	Total/NA	Water	335.4	657413
MB 680-657413/12-A	Method Blank	Total/NA	Water	335.4	657413
LCS 680-657413/13-A	Lab Control Sample	Total/NA	Water	335.4	657413
Prep Batch: 657454					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-195467-1	POTW_20210222	Total/NA	Water	Distill/Phenol	
MB 680-657454/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-657454/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
680-195467-1 MS	POTW_20210222	Total/NA	Water	Distill/Phenol	
_680-195467-1 MSD	POTW_20210222	Total/NA	Water	Distill/Phenol	

Analysis Batch: 657577

Lab Sample ID 680-195467-1	Client Sample ID POTW_20210222	Prep Type Total/NA	Matrix Water	<u>Method</u> 420.1	Prep Batch 657454
MB 680-657454/1-A	Method Blank	Total/NA	Water	420.1	657454
LCS 680-657454/2-A	Lab Control Sample	Total/NA	Water	420.1	657454
680-195467-1 MS	POTW_20210222	Total/NA	Water	420.1	657454
680-195467-1 MSD	POTW_20210222	Total/NA	Water	420.1	657454

Eurofins TestAmerica, Savannah

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-195467-1

Matrix: Water

Lab Sample ID: 680-195467-1

Client Sample ID: POTW_20210222 Date Collected: 02/22/21 13:00 Date Received: 02/26/21 12:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			657377	02/27/21 15:27	BCB	TAL SAV
Total/NA	Analysis	200.8		1	657582	03/02/21 00:07	BWR	TAL SAV
Total/NA	Prep	245.1			657879	03/03/21 15:31	JKL	TAL SAV
Total/NA	Analysis	245.1		1	658066	03/04/21 13:37	JKL	TAL SAV
Total/NA	Prep	Distill/CN			657413	02/28/21 13:45	CMR	TAL SAV
Total/NA	Analysis	335.4		5	657415	02/28/21 16:44	CMR	TAL SAV
Total/NA	Prep	Distill/Phenol			657454	03/01/21 10:20	SM	TAL SAV
Total/NA	Analysis	420.1		1	657577	03/01/21 15:47	SM	TAL SAV

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

	s Falls O&M Quarterly POTW			- 1
-	TestAmerica, Savannah ted below are applicable to this report.			
Authority	Program	Identification Number	Expiration Date	
ew York	NELAP	10842	04-01-21	

Eurofins TestAmerica, Savannah

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-195467-1

Nethod	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
20.1	Phenolics, Total Recoverable	MCAWW	TAL SAV
200.8	Preparation, Total Metals	EPA	TAL SAV
245.1	Preparation, Mercury	EPA	TAL SAV
Distill/CN	Distillation, Cyanide	None	TAL SAV
Distill/Phenol	Distillation, Phenolics	None	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. None = None

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

💸 eurofins	TestAmerica	JUJ	Sampler:	Por Lab Use Only: Walk-in Client:	Lao Samping: Job / SDG No.:		Sample Specific Notes:			680-195467 Chain of Custody				is are retained longer than 1 month)	Archive for Months		Therm ID No		Date/Time:	Date/Time: 2.26.21 1250	
Chain of Custody Record 486464	s RCRA Other:	Hi Hi	212.	() () () () () () () () () () () () () (15h D'SS JOOJ JOC Ar.wall JOC JSW WIDDI JSW WIDD	XXXXV							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) e	Return to Client Disposal by Lab	6		Comp	Received by:	Received in Laboratory by: Company:	
Albany Chain	#224 Regulatory Program: OW ONDES	$\langle \mathbf{A} \rangle$	valysis Turnar	TAT if different from Below	Court Art Mark 1 week 10- Der V	1 day Sample Type (c=comp,	Matrix (NK Kr						4=HNO3; 5=NaOH; 6= Other	Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.	Skin Irritant Doison B Unknown	ents:	Calstody Seal No.	Company: Unter Origin Date/Time: 15	-	Company: Date/Time:	
4	Address:	Company Name: Contact	123	Phone: 1518 859 4676	ot Name: Ashland (Slras Halls		POTW - JOJ 10232		Pag				Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other	Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Comments Section if the lab is to dispose of the sample.	Non-Hazard Flammable Sk	Special Instructions/QC Requirements & Comments:	Custody Seals Intact: 7 Yes Un	X	Relinquished by: NOO	Relinquished by:	

Page 12 of 13

3/5/2021

5 a

Login Sample Receipt Checklist

Client: Ashland LLC

Login Number: 195467 List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 680-195467-1

List Source: Eurofins TestAmerica, Savannah

Hercules Incorporated 5475 Rings Rd., Suite 500 Atrium North Tower Dublin, Ohio 43017



July 28, 2021

Mr. Chris Miller Glens Falls Wastewater Treatment Plant Water and Sewer Department 2 Shermantown Road Glens Falls, New York 12801

RE: Discharge Monitoring Report for 2nd Quarter 2021 Industrial Wastewater - Discharge Permit No. 002F

Dear Mr. Miller:

Attached is the 2nd Quarter 2021 Discharge Monitoring Report for the Hercules/Ciba site. The wastewater sample was collected on April 29, 2021. All parameters meet the limits of the wastewater discharge permit effective April 23, 2007 which was subsequently renewed in April 2012 and April 2017.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you have any questions, please contact me at (614) 790-6146.

Sincerely,

ann Hadan

James E. Vondracek, P.E. Principal Remediation Engineer

Attachments cc: Stephen K. Havlik, BASF Corporation, Toms River, NJ ATTACHMENT 1

DISCHARGE DATA

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:	Test America						
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH			
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total	Total	Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pН	gpd
POTW Permit or m	nin					6.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quarterly ave.			0.005				175,000
Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	0.37					7.2	
Quarterly min		0.00	0.00	0.65	0.00	7.2	15,000
Quarterly ave	0.37					7.4	48,725
Quarterly max	0.37	0.00	0.00	0.65	0.00		90,000
Data points	1	1	1	1		57	91
Date:							
04/01/21						NF	38,000
04/02/21						7.5	32,000
04/03/21						NF	45,000
04/04/21						NF	39,000
04/05/21						NF	36,000
04/06/21						7.5	29,000
04/07/21						7.4	40,000
04/08/21						NF	41,000
04/09/21						7.4	31,000
04/10/21						7.4	36,000
04/11/21						NF	35,000
04/12/21						7.3	42,000
04/13/21						7.5	34,000
04/14/21						NF	42,000
04/15/21						NF	29,000
04/16/21						7.4	44,000
04/17/21						NF	34,000
04/18/21						NF	49,000
04/19/21						NF	50,000
04/20/21						7.4	32,000
04/21/21						NF	47,000
04/22/21						7.6	46,000
04/23/21						7.5	42,000
04/24/21						7.6	71,000
04/25/21						7.6	57,000
04/26/21						NF	62,000
04/27/21						7.5	47,000
04/28/21						NF	44,000
04/29/21	0.370	ND	ND	0.650	ND	NF	56,000
04/30/21		-				7.5	39,000

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Mete
ANALYZED BY:	Test America						
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH	<u> </u>		
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total		Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Poin
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpo
POTW Permit or m						6.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,00
Quarterly ave.			0.005				175,00
Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Quarterly min	0.37	0.00	0.00	0.65	0.00	7.2	15,00
Quarterly ave	0.37	0.00	0.00	0.65	0.00	7.4	48,72
Quarterly max	0.37	0.00	0.00	0.65	0.00	7.6	90,00
Data points	1	1	1	1	1	57	9
Date: 05/01/21						NF	63.00
05/02/21						7.5	61,00
05/03/21						7.5	59,00
05/04/21						7.4	59,00
05/05/21						7.5	57,00
05/06/21						7.4	59,00
05/07/21						NF	42,00
05/08/21						7.4	64,00
05/09/21						7.5	65,00
05/10/21						NF	62,00
05/11/21						NF	60,00
05/12/21						NF	61,00
05/13/21						7.5	58,00
05/14/21						7.5	54,00
05/15/21						NF	59,00
05/16/21						7.4	53,00
05/17/21						NF	65,00
05/18/21						NF	51,00
05/19/21						7.4	52,00
05/20/21						NF	55,00
05/21/21						7.4	49,00
05/22/21						7.5	56,00
05/23/21						7.3	51,00
05/24/21						7.4	48,00
05/25/21						7.4	53,00
05/26/21						7.5	48,00
05/27/21						7.5	50,00
05/28/21						NF	56,00
05/29/21 05/30/21						7.4	<u>50,00</u> 45,00
						7 /	15 00

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Mete
ANALYZED BY:		Test America	Test America	Test America	Test America		
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH			
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total		Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Poin
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gpo
POTW Permit or min						6.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quarterly ave.			0.005				175,000
Compliance	Vaa	Vaa	Yes	Vaa	Vaa	Vaa	Yes
	Yes	Yes		Yes	Yes	Yes	
Quarterly min	0.37	0.00	0.00	0.65	0.00	7.2 7.4	15,000 48,725
Quarterly ave		0.00			0.00		,
Quarterly max Data points	0.37	0.00	0.00	0.65	0.00	<u>7.6</u> 57	<u>90,000</u> 9 [.]
Data points	1	I	1	1	I	57	9
Date:							
06/01/21						7.4	48,000
06/02/21						7.5	46,000
06/03/21						NF	54,00
06/04/21						7.4	37,00
06/05/21						7.4	73,00
06/06/21						NF	31,00
06/07/21						7.4	40,000
06/08/21						7.4	47,00
06/09/21						NF	52,000
06/10/21						NF	19,00
06/11/21						7.4	15,00
06/12/21						7.5	90,00
06/13/21						7.4	58,00
06/14/21 06/15/21						7.4 NF	47,00
06/16/21						7.4	58,000 50,000
						7.4 NF	
06/17/21 06/18/21						7.5	45,00
06/19/21						7.5 NF	39,00
						<u></u> 7.2	
06/20/21 06/21/21						7.2 NF	60,00
							41,00
06/22/21 06/23/21						7.3	53,000 48,000
06/23/21						7.3	48,000
06/24/21						7.5	48,00
06/26/21						7.5	48,00
06/27/21						7.4 NF	45,00
06/28/21						7.6	52,00
06/29/21						7.0	46,00
06/30/21						7.2	40,000
uarterly Average fo	or Chromium					1.4	+1,000
concentration	0.37 mg	ı/L					
Ave. Flow	48,725 gpc						
Ave. Load	0.15 #/d						
PERMIT	3.10 #/d						
Notes:	0110 /// 4						
D = Non-Detect. Va S = No Standard. N F = No Flow. pH not	o instantaneous ma t recorded due to s	aximum for Tota	I Chromium.		n.		
Lab estimated valu ne laboratory Repor ne laboratory Repor	ting Limit for Mercu	ury is 0.00020 m	g/L.				

ATTACHMENT 2

ANALYTICAL DATA

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

Laboratory Job ID: 680-198287-1

Client Project/Site: Hercules Glens Falls O&M Quarterly POTW

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Ath Barnett

Authorized for release by: 5/5/2021 7:10:12 AM

Eddie Barnett, Project Manager I (912)250-0280 Eddie.Barnett@Eurofinset.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

.....Links **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env

Definitions/Glossary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-198287-1

Qualifiers

QC

RER

RPD

TEF

TEQ

TNTC

RL

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Client: Ashland Project/Site: H	d LLC Job ID: 680-198287-1 Iercules Glens Falls O&M Quarterly POTW	2
Qualifiers		2
Metals		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
General Chem		5
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	8
%R	Percent Recovery	0
CFL	Contains Free Liquid	0
CFU	Colony Forming Unit	3
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-198287-1	POTW_20210429	Water	04/29/21 13:15	04/30/21 10:30	

Job ID: 680-198287-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE Client: Ashland LLC

Project: Hercules Glens Falls O&M Quarterly POTW

Report Number: 680-198287-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The sample was received on 04/30/2021; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.8° C.

TOTAL METALS (ICPMS)

Sample POTW_20210429 (680-198287-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared and analyzed on 05/03/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW_20210429 (680-198287-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared on 05/03/2021 and analyzed on 05/04/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW_20210429 (680-198287-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared on 05/03/2021 and analyzed on 05/04/2021.

Sample POTW_20210429 (680-198287-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW_20210429 (680-198287-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared and analyzed on 05/04/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-198287-1

Matrix: Water

Lab Sample ID: 680-198287-1

Client Sample ID: POTW_20210429	9
Date Collected: 04/29/21 13:15	
Date Received: 04/30/21 10:30	

Method: 200.8 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	370		5.0	1.6	ug/L		05/03/21 10:15	05/03/21 20:12	1
Lead	2.5	U	2.5	0.98	ug/L		05/03/21 10:15	05/03/21 20:12	1
Method: 245.1 - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		05/03/21 14:53	05/04/21 14:22	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.65		0.10	0.025	mg/L		05/03/21 15:17	05/04/21 10:47	10
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		05/04/21 12:11	05/04/21 15:24	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-198287-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-666872/1-A											Client Sa	ample ID: Metho	
Matrix: Water												Prep Type:	Total/NA
Analysis Batch: 667096												Prep Batch	: 666872
	MB	MB											
Analyte	Result	Qualifier		RL	N	IDL	Unit		D	Pi	repared	Analyzed	Dil Fac
Chromium	5.0	U		5.0		1.6	ug/L		_	04/30	0/21 15:09	05/03/21 19:54	1
Lead	2.5	U		2.5	0	0.98	ug/L			04/30	0/21 15:09	05/03/21 19:54	1
Lab Sample ID: LCS 680-666872/2-A									С	lient	Sample	ID: Lab Control	Sample
Matrix: Water												Prep Type:	Total/NA
Analysis Batch: 667096												Prep Batch	: 666872
			Spike		LCS I	LCS						%Rec.	
Analyte			Added		Result	Quali	ifier	Unit		D	%Rec	Limits	
Chromium			100		100			ug/L			100	85 - 115	
Lead			505		517			ug/L			103	85 - 115	
lethod: 245.1 - Mercury (CVAA)													
Lab Sample ID: MB 680-666977/1-A											Client Sa	ample ID: Metho	od Blank
Matrix: Water												Prep Type:	Total/NA
Analysis Batch: 667163												Prep Batch	: 666977
	MB	MB											
Analyte	Result	Qualifier		RL	N	/IDL	Unit		D	Pi	repared	Analyzed	Dil Fac
Mercury	0.20	U		0.20	0.0	080	ug/L			05/03	3/21 14:53	05/04/21 13:39	1
									С	lient	Sample	ID: Lab Control	Sample
Lab Sample ID: LCS 680-666977/3-A													
Lab Sample ID: LCS 680-666977/3-A Matrix: Water									Ŭ				
Matrix: Water									Ŭ			Prep Type:	Total/NA
			Spike		LCS I	LCS							Total/NA
Matrix: Water Analysis Batch: 667163			Spike Added		LCS I Result (ifier	Unit	Ū	D	%Rec	Prep Type: [•] Prep Batch	Total/NA
Matrix: Water			•				ifier	Unit ug/L			-	Prep Type: [*] Prep Batch %Rec.	Total/NA
Matrix: Water Analysis Batch: 667163 ^{Analyte}			Added		Result		fier				%Rec	Prep Type: * Prep Batch %Rec. Limits	Total/NA
Matrix: Water Analysis Batch: 667163 Analyte Mercury			Added		Result		ifier			<u>D</u>	%Rec	Prep Type: * Prep Batch %Rec. Limits	Total/NA : 666977
Matrix: Water Analysis Batch: 667163 Analyte Mercury Iethod: 335.4 - Cyanide, Total			Added		Result		fier			<u>D</u>	%Rec	Prep Type: Prep Batch %Rec. Limits 85 - 115	Total/NA : 666977
Matrix: Water Analysis Batch: 667163 Analyte Mercury Iethod: 335.4 - Cyanide, Total Lab Sample ID: MB 680-666969/12-A Matrix: Water			Added		Result		ifier			<u>D</u>	%Rec	Prep Type: Prep Batch %Rec. Limits 85 - 115 ample ID: Metho Prep Type:	Total/NA : 666977 od Blank Total/NA
Matrix: Water Analysis Batch: 667163 Analyte Mercury lethod: 335.4 - Cyanide, Total Lab Sample ID: MB 680-666969/12-A	 	 	Added		Result		ifier			<u>D</u>	%Rec	Prep Type: Prep Batch %Rec. Limits 85 - 115	Total/NA : 666977 od Blank Total/NA
Matrix: Water Analysis Batch: 667163 Analyte Mercury Iethod: 335.4 - Cyanide, Total Lab Sample ID: MB 680-666969/12-A Matrix: Water		MB Qualifier	Added	RL	Result 2.17				D	<u>D</u>	%Rec	Prep Type: Prep Batch %Rec. Limits 85 - 115 ample ID: Methor Prep Type:	Total/NA : 666977 od Blank Total/NA
Matrix: Water Analysis Batch: 667163 Analyte Mercury Iethod: 335.4 - Cyanide, Total Lab Sample ID: MB 680-666969/12-A Matrix: Water Analysis Batch: 667117		Qualifier	Added	 	Result 2.17	Quali IDL					%Rec 87 Client Sa	Prep Type: " Prep Batch %Rec. Limits 85 - 115 ample ID: Metho Prep Type: " Prep Batch	Total/NA : 666977 od Blank Total/NA : 666969
Matrix: Water Analysis Batch: 667163 Analyte Mercury lethod: 335.4 - Cyanide, Total Lab Sample ID: MB 680-666969/12-A Matrix: Water Analysis Batch: 667117 Analyte	Result	Qualifier	Added		Result 2.17	Quali IDL	Unit			D P 1 05/03	%Rec 87 Client Sa repared 3/21 14:41	Prep Type: " Prep Batch %Rec. Limits 85 - 115 ample ID: Metho Prep Type: " Prep Batch Analyzed	Total/NA : 666977 od Blank Total/NA : 666969 Dil Fac
Matrix: Water Analysis Batch: 667163 Analyte Mercury lethod: 335.4 - Cyanide, Total Lab Sample ID: MB 680-666969/12-A Matrix: Water Analysis Batch: 667117 Analyte Cyanide, Total	Result	Qualifier	Added		Result 2.17	Quali IDL	Unit			D P 1 05/03	%Rec 87 Client Sa repared 3/21 14:41	Prep Type: Prep Batch %Rec. Limits 85 - 115 ample ID: Metho Prep Type: Prep Batch <u>Analyzed</u> 05/03/21 18:27 ID: Lab Control	Total/NA : 666977 od Blank Total/NA : 666969 Dil Fac
Matrix: Water Analysis Batch: 667163 Analyte Mercury lethod: 335.4 - Cyanide, Total Lab Sample ID: MB 680-666969/12-A Matrix: Water Analysis Batch: 667117 Analyte Cyanide, Total Lab Sample ID: LCS 680-666969/13-A Matrix: Water	Result	Qualifier	Added		Result 2.17	Quali //DL	Unit			D P 1 05/03	%Rec 87 Client Sa repared 3/21 14:41	Prep Type: Prep Batch %Rec. Limits 85 - 115 ample ID: Metho Prep Type: Prep Batch 05/03/21 18:27 ID: Lab Control Prep Type:	Total/NA : 666977
Matrix: Water Analysis Batch: 667163 Analyte Mercury lethod: 335.4 - Cyanide, Total Lab Sample ID: MB 680-666969/12-A Matrix: Water Analysis Batch: 667117 Analyte Cyanide, Total Lab Sample ID: LCS 680-666969/13-A	Result	Qualifier	Added 2.50		Result 2.17	Quali	Unit			D P 1 05/03	%Rec 87 Client Sa repared 3/21 14:41	Prep Type: Prep Batch %Rec. Limits 85 - 115 ample ID: Metho Prep Type: Prep Batch <u>Analyzed</u> 05/03/21 18:27 ID: Lab Control	Total/NA : 666977
Matrix: Water Analysis Batch: 667163 Analyte Mercury lethod: 335.4 - Cyanide, Total Lab Sample ID: MB 680-666969/12-A Matrix: Water Analysis Batch: 667117 Analyte Cyanide, Total Lab Sample ID: LCS 680-666969/13-A Matrix: Water Analysis Batch: 667117	Result	Qualifier	Added		Result Q 2.17 0 0.00 0.00	Quali IDL 025	Unit mg/L			D P 1 05/03	%Rec 87 Client Sa repared 3/21 14:41	Prep Type: Prep Batch %Rec. Limits 85 - 115 ample ID: Metho Prep Type: Prep Batch 05/03/21 18:27 ID: Lab Control Prep Type: Prep Batch	Total/NA : 666977
Matrix: Water Analysis Batch: 667163 Analyte Mercury lethod: 335.4 - Cyanide, Total Lab Sample ID: MB 680-666969/12-A Matrix: Water Analysis Batch: 667117 Analyte Cyanide, Total Lab Sample ID: LCS 680-666969/13-A Matrix: Water	Result	Qualifier	Added 2.50		Result 2.17 2.17 0 0.00 LCS	Quali IDL 025	Unit mg/L	ug/L		Pr 05/03	%Rec 87 Client Sa repared 3/21 14:41 Sample	Prep Type: Prep Batch %Rec. Limits 85 - 115 ample ID: Methor Prep Type: Prep Batch 05/03/21 18:27 ID: Lab Control Prep Type: Prep Batch %Rec.	Total/NA : 666977

Lab Sample ID: MB 680-667133/1-A							Client Sa	mple ID: Metho	d Blank
Matrix: Water								Prep Type: 1	otal/NA
Analysis Batch: 667178								Prep Batch:	667133
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		05/04/21 12:11	05/04/21 15:24	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-198287-1

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: LCS 680-667133/2-A Matrix: Water					Client	Sample	ID: Lab Control Sample Prep Type: Total/NA
Analysis Batch: 667178 Analyte	Spike Added		LCS Qualifier	Unit	D	%Rec	Prep Batch: 667133 %Rec. Limits
Phenolics, Total Recoverable	0.100	0.112		mg/L		112	75 - 125

QC Association Summary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-198287-1

Metals

Prep Batch: 666872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-198287-1	POTW_20210429	Total/NA	Water	200.8	
MB 680-666872/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-666872/2-A	Lab Control Sample	Total/NA	Water	200.8	
Prep Batch: 666977					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-198287-1	POTW_20210429	Total/NA	Water	245.1	
MB 680-666977/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-666977/3-A	Lab Control Sample	Total/NA	Water	245.1	
Analysis Batch: 66709 - Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
Lab Sample ID 680-198287-1	Client Sample ID POTW_20210429	Prep Type Total/NA	Water	Method 200.8	Prep Batch 666872
MB 680-666872/1-A	Method Blank	Total/NA	Water	200.8	666872
LCS 680-666872/2-A	Lab Control Sample	Total/NA	Water	200.8	666872
Analysis Batch: 66716	3				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-198287-1	POTW_20210429	Total/NA	Water	245.1	666977
MB 680-666977/1-A	Method Blank	Total/NA	Water	245.1	666977

General Chemistry

Prep Batch: 666969

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-198287-1	POTW_20210429	Total/NA	Water	Distill/CN	
MB 680-666969/12-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-666969/13-A	Lab Control Sample	Total/NA	Water	Distill/CN	
Analysis Batch: 66711	7				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-198287-1	POTW_20210429	Total/NA	Water	335.4	666969
MB 680-666969/12-A	Method Blank	Total/NA	Water	335.4	666969
LCS 680-666969/13-A	Lab Control Sample	Total/NA	Water	335.4	666969
Prep Batch: 667133					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-198287-1	POTW_20210429	Total/NA	Water	Distill/Phenol	
MB 680-667133/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-667133/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
Analysis Batch: 66717	8				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-198287-1	POTW_20210429	Total/NA	Water	420.1	667133
MB 680-667133/1-A	Method Blank	Total/NA	Water	420.1	667133
LCS 680-667133/2-A	Lab Control Sample	Total/NA	Water	420.1	667133

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-198287-1

Matrix: Water

5

Lab Sample ID: 680-198287-1

Client Sample ID: POTW_20210429 Date Collected: 04/29/21 13:15 Date Received: 04/30/21 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			666872	05/03/21 10:15	BJB	TAL SAV
Total/NA	Analysis	200.8		1	667096	05/03/21 20:12	BWR	TAL SAV
Total/NA	Prep	245.1			666977	05/03/21 14:53	BCB	TAL SAV
Total/NA	Analysis	245.1		1	667163	05/04/21 14:22	BWR	TAL SAV
Total/NA	Prep	Distill/CN			666969	05/03/21 15:17	MS	TAL SAV
Total/NA	Analysis	335.4		10	667117	05/04/21 10:47	ALG	TAL SAV
Total/NA	Prep	Distill/Phenol			667133	05/04/21 12:11	SM	TAL SAV
Total/NA	Analysis	420.1		1	667178	05/04/21 15:24	SM	TAL SAV

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

	Accreditation/C	ertification Summary		
lient: Ashland LLC roject/Site: Hercules Glens	Falls O&M Quarterly POTW		Job ID: 680-198287-1	
	ēstAmerica, Savannah			-
he accreditations/certifications list	ed below are applicable to this report.			-
Authority	Program	Identification Number	Expiration Date	
New York	NELAP	10842	04-01-22	
				1

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV
200.8	Preparation, Total Metals	EPA	TAL SAV
245.1	Preparation, Mercury	EPA	TAL SAV
Distill/CN	Distillation, Cyanide	None	TAL SAV
Distill/Phenol	Distillation, Phenolics	None	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. None = None

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Curofins Environment Testing TestAmerica	COC No: of COCS	Sampler: For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.: Sample Specific Notes:			etalned longer than 1 month)	0.8 1 Therm ID No.: ДирансТіте: Date/Time: Date/Time: 10.3 о
531362	Date: Carrier:				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	Corrid mpany: mpany:
Chain of Custody Record	Site Contact: Lab Contact:	Filtered Sample (Y/Q) Pertorm MS/MSD (Y/N) 200.8 CWAtakel Chromium 1/2 ed HEGGVERADE	б Х Х Х Х			Received by: Received by: Received by: Received in Laboratory by
Chain Regulatory Program:	Project Manager: Kuttie Anall Tel/Email: 518-859 - 4626	Analysis Turnaround Time ENDAR DAYS WORKING DAYS TAT if different from Below workING DAYS TAT if different from Below avecks 2 weeks avecks 1 week OPAY 1 days 1 days 1 day Type Time c=Gomb, Matrix Cont. adrix		n of Custody	Vaste Codes for the sample in th	d
Regulator	Project Manag Tel/Email: 51	Analysis Analysis CaleNDAR DAYS TAT if differen (Juuthulu RD NU = Sample Sample Date Time	H/29/21 13/5	680-198287 Chain of Custody	HNO3 ₈ 5≡NaOH; 6≡ Ot ? Please List any EPA V le. □ Poison B	9760 P. US Company: Company: Company:
Albany Albany #224	Contact	S Falls	POTW_20210429		Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.	Katte Katte vis Intact: v

5

8 9

11

Login Sample Receipt Checklist

Client: Ashland LLC

Login Number: 198287 List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 680-198287-1

List Source: Eurofins TestAmerica, Savannah

Hercules Incorporated 5475 Rings Rd., Suite 500 Atrium North Tower Dublin, Ohio 43017



October 28, 2021

Mr. Chris Miller Glens Falls Wastewater Treatment Plant Water and Sewer Department 2 Shermantown Road Glens Falls, New York 12801

RE: Discharge Monitoring Report for 3rd Quarter 2021 Industrial Wastewater - Discharge Permit No. 002F

Dear Mr. Miller:

Attached is the 3rd Quarter 2021 Discharge Monitoring Report for the Hercules/Ciba site. The wastewater sample was collected on July 29, 2021. All parameters meet the limits of the wastewater discharge permit effective April 23, 2007 which was subsequently renewed in April 2012 and April 2017.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you have any questions, please contact me at (614) 790-6146.

Sincerely,

ann Hadan

James E. Vondracek, P.E. Principal Remediation Engineer

Attachments cc: Stephen K. Havlik, BASF Corporation, Toms River, NJ ATTACHMENT 1

DISCHARGE DATA

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:	Test America						
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH			
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total	Total	Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pН	gpd
POTW Permit or m		0	0	0	Ŭ	6.0	01
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quarterly ave.			0.005				175,000
Qualitority ator			01000				
In Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Quarterly min.	0.49	0.00	0.0001	0.00	0.00	7.1	0
Quarterly ave.	0.49	0.00	0.0001	0.00	0.00	6.0	56,848
Quarterly max.	0.49	0.00	0.0001	0.00	0.00	7.5	88.000
Data points	0.49	0.00	0.0001	0.00	0.00	92	88,000 92
Data points	I		I	1	Ι	92	92
Date:							
07/01/21						7.3	48,000
07/02/21						7.3	49,000
07/03/21						7.2	52,000
07/04/21						NF	54,000
07/05/21						7.2	53,000
07/06/21						NF	36,000
07/07/21						7.4	46,000
07/08/21						NF	60,000
07/09/21						7.2	46,000
07/10/21						7.2	40,000
							,
07/11/21						NF	59,000
07/12/21						7.2	34,000
07/13/21						7.2	60,000
07/14/21						7.3	63,000
07/15/21						7.2	55,000
07/16/21						7.3	56,000
07/17/21						7.2	57,000
07/18/21						7.1	56,000
07/19/21						7.2	55,000
07/20/21						7.2	64,000
07/21/21						7.1	70,000
07/22/21						7.2	69,000
07/23/21						7.3	60,000
07/24/21						7.2	57,000
07/25/21						7.2	61,000
07/26/21						NF	63,000
07/27/21						NF	61,000
07/28/21						7.1	60,000
07/29/21	0.490	ND	0.0001	ND	ND	7.2	61,000
07/30/21	000		0.0001		.10	7.3	61,000
07/31/21						7.2	88,000

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW Meter	POTW Meter
	Sampler	Sampler	Sampler	Sampler	Sampler	weter	weter
ANALYZED BY:	Test America EPA 200.8	Test America EPA 200.8	Test America EPA 245.1	Test America MCAWW 335.4	Test America MCAWW 420.1		
LAB METHOD:	EPA 200.8 Acid				MCAWW 420.1		
PRESERVED:		Acid	Acid	NaOH	Chilled		
	Chilled	Chilled	Chilled	Chilled	Chilled	0	0
	Total	Total	Total	Total		Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pН	gpd
POTW Permit or n						6.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quarterly ave.			0.005				175,000
In Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Quarterly min.	0.49	0.00	0.0001	0.00	0.00	7.1	0
Quarterly ave.	0.49	0.00	0.0001	0.00	0.00	6.0	56,848
Quarterly max.	0.49	0.00	0.0001	0.00	0.00	7.5	88,000
Data points	1	1	1	1	1	92	92
Date:							00.000
08/01/21						NF	83,000
08/02/21						7.3	83,000
08/03/21						7.3	83,000
08/04/21						7.2	65,000
08/05/21						7.2	70,000
08/06/21						7.3	75,000
08/07/21						7.3	63,000
08/08/21						7.3	76,000
08/09/21						7.2	60,000
08/10/21						7.2	57,000
08/11/21						7.4	69,000
08/12/21						7.3	60,000
08/13/21						7.3	60,000
08/14/21						7.2	58,000
08/15/21						NF	58,000
08/16/21						7.3	61,000
08/17/21						7.2	50,000
08/18/21						7.2	56,000
08/19/21						NF	61,000
08/20/21						7.2	33,000
08/21/21						7.3	78,000
08/22/21					·	7.4	75,000
08/23/21						NF	65,000
08/24/21					·	7.2	54,000
08/25/21						7.2	58,000
08/26/21						7.2	64,000
08/27/21					·	7.3	55,000
08/28/21						7.4	69,000
08/29/21						7.2	54,000
08/30/21						NF	55,000
08/31/21						7.2	56,000

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTV
	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Mete
ANALYZED BY:		est America	Test America	Test America	Test America		
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH Chilled	Chilled		
	Chilled	Chilled	Chilled Total	Total			0
	Total	Total				ompliance	Complianc
L Insteau	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Poin
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	pH	gp
POTW Permit or min		0.0	0.005	2.0	5.0	6.0	250.00
Daily max. Quarterly ave.	NS	0.8	0.025	3.0	5.0	9.0	<u>350,00</u> 175,00
additionly avo.			0.000				110,00
In Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Ye
Quarterly min.	0.49	0.00	0.0001	0.00	0.00	7.1	
Quarterly ave.	0.49	0.00	0.0001	0.00	0.00	6.0	56,84
Quarterly max.	0.49	0.00	0.0001	0.00	0.00	7.5	88,00
Data points	1	1	1	1	1	92	9
Date:							(0.00
09/01/21						NF 7.2	43,00
09/02/21							55,00
09/03/21						7.3	55,00
09/04/21						7.3	61,00
09/05/21						7.3	55,00
09/06/21						7.2	46,00
09/07/21						7.4	48,00
09/08/21						NF	63,00
09/09/21						7.2	46,00
09/10/21						7.3	47,00
09/11/21 09/12/21						7.3	<u>62,00</u> 50,00
09/13/21 09/14/21						7.4 NF	<u>51,00</u> 51,00
09/15/21						7.1	50,00
09/16/21						7.1	47,00
09/17/21						7.3	
09/18/21							47,00
09/19/21						7.2	47,00
09/20/21						7.3	15,00
09/21/21						7.3	74,00
09/22/21						7.2	50,00
09/23/21						7.3	49,00
09/24/21						7.3 NF	49,00
09/25/21						7.2	48,00 56,00
09/26/21						7.5	58.00
09/27/21						7.3	58,00
09/28/21						7.3	59,00
09/29/21						7.3	58,00
09/30/21						7.3	56,00
onthly Average for							
oncentration Ave. Flow	0.49 mg/ 56,848 gpd	_					
Ave. Load	0.23 #/da	V					
PERMIT	3.10 #/da						
Notes:	0.10 #/uz	3					
	alue reported to be b	elow the Labo	ratory Reporting	Limit			
S: No Standard. No	instantaneous max	mum for Total	Chromium				

The laboratory Reporting Limit for Total Phenols is 0.050 mg/L.

ATTACHMENT 2

ANALYTICAL DATA

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

Laboratory Job ID: 680-202266-1

Client Project/Site: Hercules Glens Falls O&M Quarterly POTW

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

Ath Barnett

Authorized for release by: 8/5/2021 10:58:26 AM

Eddie Barnett, Project Manager I (912)250-0280 Eddie.Barnett@Eurofinset.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Definitions/Glossary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

2

Qualifiers

Metals	
Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Glussaly	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-202266-1	POTW_20210729	Water	07/29/21 13:55	07/30/21 10:20

Job ID: 680-202266-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-202266-1	POTW 20210729	Water	07/29/21 13:55	07/30/21 10:20

Job ID: 680-202266-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE

Client: Ashland LLC Project: Hercules Glens Falls O&M Quarterly POTW

Report Number: 680-202266-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The sample was received on 07/30/2021; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.5° C.

TOTAL METALS (ICPMS)

Sample POTW_20210729 (680-202266-1) was analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The sample was prepared on 08/03/2021 and analyzed on 08/04/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample POTW_20210729 (680-202266-1) was analyzed for total mercury in accordance with EPA Method 245.1. The sample was prepared and analyzed on 08/04/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE

Sample POTW_20210729 (680-202266-1) was analyzed for total cyanide in accordance with EPA Method 335.4. The sample was prepared and analyzed on 08/04/2021.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PHENOLS

Sample POTW_20210729 (680-202266-1) was analyzed for phenols in accordance with EPA Method 420.1. The sample was prepared and analyzed on 08/03/2021.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RL

5.0

2.5

RL

RL

0.010

0.050

0.20

MDL Unit

1.6 ug/L

0.98 ug/L

MDL Unit

0.080 ug/L

MDL Unit

0.0025 mg/L

0.025 mg/L

D

D

D

Prepared

08/03/21 08:56

08/03/21 08:56

Prepared

08/04/21 10:35

Prepared

08/04/21 10:34

08/03/21 08:24

Result Qualifier

Result Qualifier

Result Qualifier

490

0.10 J

0.010 U

0.050 U

2.5 U

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Client Sample ID: POTW_20210729

Date Collected: 07/29/21 13:55

Date Received: 07/30/21 10:20

Analyte

Lead

Analyte

Mercury

Analyte

Cyanide, Total

General Chemistry

Phenolics, Total Recoverable

Chromium

Method: 200.8 - Metals (ICP/MS)

Method: 245.1 - Mercury (CVAA)

Job ID: 680-202266-1

Matrix: Water

Dil Fac

Dil Fac

Dil Fac

1

1

1

1

1

Lab Sample ID: 680-202266-1

Analyzed

08/04/21 00:24

08/04/21 00:24

Analyzed

08/04/21 16:43

Analyzed

08/04/21 19:57

08/03/21 12:55

Eurofins TestAmerica, Savannah

QC Sample Results

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-202266-1

Method: 200.8 - Metals (ICP/MS)

Analyte

Mercury

Matrix: Water Analysis Batch: 679296 MB MB MDL Unit D Prep Type: Total/N Prep Batch: 67909 Analyte Result Qualifier RL MDL Unit D Prepared Analyzed DII F1 Commum 5.0 0 5.0 1.6 ugit. 08/03/21 08:50 08/04/21 00:00 Lads 2.5 0.98 ugit. 08/03/21 08:50 08/04/21 00:00 Lab Sample (D: LCS 680-679090/2-A Matrix: Water Client Sample ID: Lab Control Sample Prep Type: Total/N Analyte Added Result Qualifier Unit D %Rec. WRec. Analyte Added Spike LCS LCS WRec. WRec. Lab Sample ID: 680-202266-1 MS Client Sample ID: POTW_2021072 WRec. Prep Type: Total/N Analyte Result Qualifier Added Result Qualifier MMS WS WRec. Lab Sample ID: 680-202266-1 MSD Spike MS MS MS WRec. Limits Prep Type: Total/N Lab Sample ID: 680-202266-1	Lab Sample ID: MB 680-679090/1-A												Client Sa	ample ID: N	/lethod	Blank
Analysis Batch: 679296 MB MB MB MDL Unit D Prepred Analyze Dill F. Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dill F. Chromium 5.0 U 2.5 U 2.5 0.80 upl. 0803/21 08:56 0804/21 00:00 Dill F. Lab Sample ID: LCS 680-679090/2-A Matrix: Water Client Sample ID: Lab Control Sample Prep Type: Total/N Prep Type: Total/N </th <th></th> <th>-</th> <th></th> <th></th>														-		
MB Analyte Result Qualifier ML MDL D Prepared Analyze Dil F. Chromium 2.5 U 2.5 0.98 ugL 08/03/21 08:56 08/04/21 00:00 Lab Sample 1D: LCS 680-679090/2-A Cilient Sample 1D: Lab Control Sample Prep Total/N Prep Total/N Prep Eatch: 67902 NRec. Analysis Sample 1D: Lab Control Sample Prep Eatch: 67902 NRec. NRec. </th <th></th>																
Ohromium 5.0 U 5.0 1.6 ug/L 08/03/21 08:56 08/04/21 00:00 Lad 2.5 U 2.5 0.98 ug/L 08/03/21 08:56 08/04/21 00:00 Lab Sample ID: LCS 680-679090/2-A Atdred Client Sample ID: Lab Control Sample Prep Type: Total/N Prep Type: Total/N Analyte Added Result Qualifier Unit D %Rec. Chromium 100 98.0 2.5 Ug/L 104 85.115 Lab Sample ID: 680-202266-1 MS Matrix: Water Added Result Qualifier Unit D %Rec. Frep Type: Total/N Analyte Result Qualifier Added Result Qualifier Unit D %Rec. Frep Type: Total/N Analyte Result Qualifier Added Result Qualifier Unit D %Rec. Frep Type: Total/N Lead 2.5 U 505 495 Ug/L 98 70.130 Lead 2.5 U 505 517 Ug/L 70.130			МВ	МВ												
Otromium 5.0 U 5.0 1.6 ug/L 08003/21 08:56 08104/21 00:00 Lad Sample ID: LCS 680-679090/2-A 2.5 U 2.5 0.98 Ug/L 08003/21 08:56 08104/21 00:00 Lab Sample ID: LCS 680-679090/2-A Matrix: Water Client Sample ID: Lab Control Sample Added Result Qualifier Unit D %Rec. Free Type: Total/N Analyte Added Result Qualifier Unit D %Rec. WRec. Free Type: Total/N Lab Sample ID: 680-202266-1 MS Matrix: Water Added Result Qualifier Unit D %Rec. Free Type: Total/N Analyte Result Qualifier Added Result Qualifier Unit D %Rec. Free Type: Total/N Analyte Result Qualifier Added Result Qualifier Unit D %Rec. Free Type: Total/N Lead 2.5 U 505 495 Ug/L 98 70.130 Lead 2.5 U 505 517 Ug/L 103	Analyte	R	esult	Qualifier		RL		MDL	Unit		D	P	repared	Analyze	ed	Dil Fac
Lab Sample ID: LCS 680-679090/2-A Matrix: Water Client Sample ID: Lab Control Sample Prop Type: Total/N Prop Batch: 67905 Analyte Added Result Qualifier Unit D %Rec. Analyte Added Result Qualifier Unit D %Rec. Marker Lad 505 526 ug/L D %Rec. Marker Lad 505 526 ug/L 104 85.115 Editent Sample ID: F07W_2021072 Lab Sample ID: 680-202266-1 MS Matrix: Water Result Qualifier Added Result Qualifier Unit D %Rec. Limits Prop Type: Total/N Prop Batch: 67905 Analyte Result Qualifier Added Result Qualifier Unit D %Rec. Result: Communits Prop Type: Total/N Prop Batch: 67905 Lab Sample ID: 680-202266-1 MSD Katrix: Water Simple Simple MsD MSD MSD Simple ID: Result: Communits Prop Type: Total/N Prop Batch: 67905 Lab Sample ID: 680-202266-1 MSD Katrix: Water Result	· ·		5.0	U		5.0		1.6	ug/L			08/0	3/21 08:56			1
Matrix: Water Analysis Batch: 679296 Prep Type: Total/N Prep Batch: 679296 Analyte Added Result Qualifier Unit D %Rec Limits Chromium 100 98.0 ug/L 98 85.115 Imits	Lead		2.5	U		2.5		0.98	ug/L			08/0	3/21 08:56	08/04/21 0	00:00	1
Matrix: Water Prep Type: Total/N Analyte Spike LCS VCS VCS <td< td=""><td>Lab Sample ID: LCS 680-679090/2-4</td><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>с</td><td>lient</td><td>Sample</td><td>ID: Lab Co</td><td>ontrol S</td><td>ample</td></td<>	Lab Sample ID: LCS 680-679090/2-4	4									с	lient	Sample	ID: Lab Co	ontrol S	ample
Analyte Added Result Qualifier Unit p %Rec. Limits	Matrix: Water															
Spike LCS LCS VRec. Analyte Madded Result Qualifier Unit D %Rec Limits	Analysis Batch: 679296													Prep B	atch: 6	579090
Chromium 100 98.0 ug/L 98 85.115 Lead 505 526 ug/L 104 85.115 Lab Sample ID: 680-202266-1 MS Matrix: Water Prep Type: Total/N Prep Batch: 679296 Analyte Result Qualifier Added Result Qualifier Unit D %Rec. Limits Chromium 490 100 505 495 ug/L 98 76 70.130 Lead 2.5 0 505 495 ug/L 98 70.130 Lead 2.5 0 505 495 ug/L 98 70.130 Lead 2.5 0 505 517 ug/L 0 %Rec. Prep Type: Total/N Analyte Result Qualifier Added Result Qualifier Added Result Qualifier Unit D %Rec Wrec Lead 2.5 0 505 517 ug/L 103 70.130 5 2 Lead<	-				Spike		LCS	LCS								
Lead 505 526 ug/L 104 85.115 Lab Sample ID: 680-202266-1 MS Matrix: Water Analysis Batch: 679296 Sample Sample Spike MS MS Prep Type: Total/N Prep Batch: 679296 Analyse Result Qualifier Added Result Qualifier Unit D %Rec. Iunits - <	Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Lab Sample ID: 680-202266-1 MS Matrix: Water Analysis Batch: 679296 Sample Sample Sample Spike MS MS S Analyte Result Qualifier Added Callifier Unit D %Rec Limits Chromium 490 505 495 ug/L 98 70.130 Lab Sample ID: 680-202266-1 MSD Matrix: Water Analysis Batch: 679296 Sample Sample Spike MS MS Client Sample ID: POTW_2021072 Prep Type: Total/N Prep Batch: 67902 Client Sample ID: POTW_2021072 Prep Type: Total/N Prep Batch: 67902 Client Sample ID: POTW_2021072 Prep Type: Total/N Prep Batch: 67902 Analysis Batch: 679296 Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Lim Chromium 490 100 608 4 ug/L 114 70.130 6 2 Lead 2.5 U 505 517 ug/L 103 70.130 5 3 Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Lim Chromium 490 100 608 4 ug/L 114 70.130 6 2 Lead 2.5 U 505 517 ug/L 103 70.130 5 3 Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Lim Chromium 490 100 608 4 ug/L 1013 70.130 5 3 Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Lim Analysis Batch: 679358/1-A Matrix: Water Analysis Batch: 679515 MB MB Analyte Result Qualifier RE MB MB Analyte Result Qualifier Q. 0.20 U 0.20	Chromium				100		98.0			ug/L		-	98	85 - 115		
Matrix: Water Prep Type: Total/N Analysis Batch: 679296 Sample Sample Spike MS MS Prep Batch: 67926 Analyte Result Qualifier Added Result Qualifier Added Result Qualifier Added Result Qualifier Unit D %Rec. Prep Batch: 67926 Lead 2.5 U 505 495 ug/L 98 70.130 Imits Imits Prep Type: Total/N Lab Sample ID: 680-202266-1 MSD Sample Sample Sample Sample Sample Sample Prep Type: Total/N	Lead				505		526			ug/L			104	85 - 115		
Matrix: Water Analysis Batch: 679296 Sample Result Sample Qualifier Spike Added MS MS Prep Batch: 679296 Analyte Result Qualifier Added Result Qualifier Unit D %Rec. VRec. Chromium 490 100 570 4 ug/L 76 70.130 Lead 2.5 U 505 495 ug/L 98 70.130 Lab Sample ID: 680-202266-1 MSD Sample Sample Sample Sample Prep Type: Total/N Analyte Result Qualifier Added Result Qualifier Prep Type: Total/N Analyte Result Qualifier Added Result Qualifier Unit D %Rec. RPC Chromium 490 100 608 4 ug/L 114 70.130 5 2 Analyte Result Qualifier Ug/L 103 70.130 5 2 Attrix: Water NB	Lab Sample ID: 680-202266-1 MS											Cli	ent Samı	ole ID: POT	W 202	210729
Analysis Batch: 679296 Prop Batch: 679296 Analysis Batch: 679296 Result Qualifier Added 40ded Result Qualifier MS MS MS MS %Rec. Limits Constraints																
Sample Sample Spike MS MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec. Limits Chromium 490 100 570 4 ug/L 76 70.130 Lead 2.5 U 505 495 ug/L 98 70.130 Lab Sample ID: 680-202266-1 MSD Sample Spike MSD MSD Prep Type: Total/N Analysis Batch: 679296 Sample Sample Spike MSD MSD %Rec. Result Prep Type: Total/N Analyse Result Qualifier Added Result Qualifier Unit D %Rec. RPD Lin Chromium 490 100 608 4 ug/L 114 70.130 5 2 Lead 2.5 U 505 517 ug/L 103 70.130 5 2 Analysis Batch: 679515																
AnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsChromium4901005704ug/L9870.13070.130Lead2.5U505495ug/L9870.130Lab Sample ID: 680-202266-1 MSDSampleSampleSampleSamplePrep Type: Total/NMatrix: WaterAnalysis Batch: 679296SampleSampleSampleMSDMSDAnalyteResultQualifierAddedResultQualifierUnitD%Rec.RefChromium4901006084ug/L11470.13062Lead2.5U505517ug/L10370.13052AnalyteResultQualifier06084ug/L10470.13052Athod: 245.1 - Mercury (CVAA)Lab Sample ID: MB 680-679358/1-AKesultMBKesultPrep Type: Total/NPrep Type: Total/NLab Sample ID: MB 680-679358/1-AMBMBMBLUnitDPreparedAnalyzedDil FMarix: Water0.20U0.200.080ug/LDPreparedAnalyzedDil FLab Sample ID: LCS 680-679358/3-AMBKBKBKBKBKBKBKBKBKBKBAnalyteResultQualifier0.200.200.200.080ug/LDPreparedAnalyze		Sample	Sam	ple	Spike		MS	MS								
Chromium 490 100 570 4 ug/L 76 70 - 130 Lead 2.5 U 505 495 ug/L 98 70 - 130 Lab Sample ID: 680-202266-1 MSD Matrix: Water Client Sample ID: POTW_2021072 Prep Type: Total/N Prep Batch: 67905 Analysis Batch: 679296 Sample Sample Spike MSD MSD %Rec. RF Analyte Result Qualifier Added Result Qualifier Unit D %Rec. RFD Lin Lead 2.5 U 505 517 ug/L 103 70 - 130 6 2 Athod: 245.1 - Mercury (CVAA) Eab Sample ID: MB 680-679358/1-A Client Sample ID: Method Blan Prep Type: Total/N Lab Sample ID: MB 680-679358/1-A MB MB Prep Type: Total/N Prep Type: Total/N Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fi Mercury 0.20 U 0.20 0.20	Analyte						Result	Qua	lifier	Unit		D	%Rec	Limits		
Lead 2.5 U 505 495 ug/L 98 70-130 Lab Sample ID: 680-202266-1 MSD Matrix: Water Client Sample ID: POTW_2021072 Prep Type: Total/N Prep Batch: 679296 Client Sample ID: POTW_2021072 Prep Type: Total/N Prep Batch: 679296 Analysis Batch: 679296 Sample Sample Sample Spike MSD MSD %Rec. RF Analyte Result Qualifier Added Result Qualifier Unit D %Rec. RFD Lin Chromium 490 100 608 4 ug/L 114 70-130 6 2 Lead 2.5 U 505 517 ug/L 103 70-130 5 2 Analysis Batch: 679515 MB MB MB Prep Type: Total/N Prep Batch: 67935 Prep Type: Total/N Prep Batch: 67935 D Prep Type: Total/N Prep Type: Total/N Prep Type: Total/N Lab Sample ID: LCS 680-679358/3-A Matrix: Water Result Qualifier RL MDL Unit D Prepared 08/04/21 10:35 Analyzed Dil Fi Lab Sample ID: LCS 680-679358/3-A Matrix: Water Resut Qualifier <th< td=""><td></td><td></td><td></td><td></td><td>100</td><td></td><td>570</td><td>4</td><td></td><td></td><td></td><td>-</td><td></td><td>70 - 130</td><td></td><td></td></th<>					100		570	4				-		70 - 130		
Matrix: Water Prep Type: Total/N Analysis Batch: 679296 Sample Spike MSD MSD Prep Batch: 67909 Analyte Result Qualifier Added Result Qualifier Unit D %Rec. RF Analyte Result Qualifier Added Result Qualifier Unit D %Rec. RF Lead 2.5 U 505 517 ug/L 103 70.130 6 2 Analyte Mercury (CVAA) Sample ID: MB 680-679358/1-A Client Sample ID: Method Blam Prep Type: Total/N Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fi Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fi Mercury 0.20 U 0.20 0.20 0.20 0.20 Dil Fi Olio/U/L11 10:35 Olio/L11 10:26 Dil Fi Lab Sample ID: LCS 680-679358/3-A Client Sample ID: Lab Control Sample Prep Type: Total/N Prep Type: Total/N Prep Type: Total/N Matrix: Water 0.20 0.20 0.20 Prep Type: Total/N Prep Type: Total/N	Lead	2.5	U		505		495			-			98	70 - 130		
Matrix: Water Prep Type: Total/N Analysis Batch: 679296 Sample Sample Spike MSD MSD WRec. Ref Analysis Batch: 679296 Result Qualifier Added Result Qualifier Unit D %Rec. RF Analyte Result Qualifier Added Result Qualifier Unit D %Rec. RF Lead 2.5 U 505 517 ug/L 103 70.130 6 2 Acthod: 245.1 - Mercury (CVAA) Kethod: Client Sample ID: MB 680-679358/1-A Prep Type: Total/N Matrix: Water MB MB Prep Type: Total/N Prep Batch: 67935 Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fi Mercury 0.20 U 0.20 0.080 ug/L D Prepared Analyzed Dil Fi Lab Sample ID: LCS 680-679358/3-A Client Sample ID: Lab Control Sample Dil Lab Control Sample Dil Lab Control Sample Dil Analysis Batch: 679315 Prep Type: Total/N	I ab Sample ID: 680-202266-1 MSD											Cli	ent Sam	ole ID: POT	W 202	210729
Analysis Batch: 679296 Prep Batch: 679296 Sample Spike MSD MSD %Rec. RFP Analyte Result Qualifier Added Result Qualifier Unit D %Rec Imits RPD Lim Chromium 490 100 608 4 ug/L 114 70 - 130 6 2 Lead 2.5 U 505 517 ug/L 103 70 - 130 5 2 Attrix: Water Mercury (CVAA) Kethod: Client Sample ID: Method Blar Prep Batch: 679358 Prep Batch: 679358 Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fi Mercury 0.20 U 0.20 0.080 ug/L D Prepared Analyzed Dil Fi Lab Sample ID: LCS 680-679358/3-A MB MB ME RL MDL Unit D Prepared Analyzed Dil Fi Lab Sample ID: LCS 680-679358/3-A Matrix: Water Result Qualifier RL MDL<															_	
SampleSampleSpikeMSDMSD%Rec.RFAnalyteResultQualifierAddedResultQualifierUnitD%Rec.LimitsRPDLimChromium4901006084ug/L11470-13062Lead2.5U505517ug/L10370-13052Method:245.1 - Mercury (CVAA)Result <td></td>																
AnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsRPDLimChromium4901006084ug/L11470-13062Lead2.5U505517ug/L10370-13052Method:245.1 - Mercury (CVAA)Client Sample ID: Method Blan Prep Type: Total/N Prep Batch: 679358Lab Sample ID: MB 680-679358/1-A Matrix: Water Analysis Batch: 679515MBMBClient Sample ID: Method Blan Prep Type: Total/N Prep Batch: 679358MB MB Mercury0.20U0.200.080ug/LDPrepared 08/04/21 10:35Analyzed 08/04/21 16:26Lab Sample ID: LCS 680-679358/3-A Matrix: Water Analysis Batch: 679515QualifierRLMDL 0.20UnitDPrepared 08/04/21 10:35Analyzed 08/04/21 16:26Dil Fa 08/04/21 16:26Lab Sample ID: LCS 680-679358/3-A Matrix: Water Analysis Batch: 679515Client Sample ID: Lab Control Sample Prep Type: Total/N Prep Batch: 679358Prep Batch: 679358		Sample	Sam	ple	Spike		MSD	MSD	,							RPD
Chromium 490 100 608 4 ug/L 114 70 - 130 6 2 Lead 2.5 U 505 517 ug/L 103 70 - 130 5 2 Aethod: 245.1 - Mercury (CVAA) Client Sample ID: Method Blan Prep Type: Total/N Lab Sample ID: MB 680-679358/1-A Matrix: Water Prep Type: Total/N Prep Type: Total/N Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fa Mercury 0.20 U 0.20 0.080 ug/L 08/04/21 10:35 08/04/21 16:26 Lab Sample ID: LCS 680-679358/3-A Client Sample ID: Lab Control Sam	Analyte				•					Unit		D	%Rec		RPD	Limit
Lead2.5 U505517ug/L10370.13055Method: 245.1 - Mercury (CVAA)Lab Sample ID: MB 680-679358/1-A Matrix: Water Analysis Batch: 679515Client Sample ID: Method Blan Prep Type: Total/N Prep Batch: 67935MBMBAnalyteResultQualifierRLMDLUnitDPrepared 08/04/21 10:35Analyzed 08/04/21 16:26Dil FiLab Sample ID: LCS 680-679358/3-A Matrix: Water Analysis Batch: 679515Client Sample ID: Lab Control Sample Prep Type: Total/N Prep Batch: 679515Client Sample ID: Lab Control Sample Prep Type: Total/N Prep Batch: 679515					100		608	4		ua/L		-	114	70 - 130	6	20
Lab Sample ID: MB 680-679358/1-A Client Sample ID: Method Blan Matrix: Water Prep Type: Total/N Analysis Batch: 679515 Prep Batch: 67935 MB MB Analyte Result Mercury 0.20 U 0.20	Lead	2.5	U		505					-			103		5	20
Matrix: Water Prep Type: Total/N Analysis Batch: 679515 MB MB Matrix: Water Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fa Lab Sample ID: LCS 680-679358/3-A 0.20 U 0.20 0.080 ug/L 08/04/21 10:35 08/04/21 16:26 Dil Fa Matrix: Water Value Value Prepared Prepared </td <td>Aethod: 245.1 - Mercury (CVAA</td> <td>4)</td> <td></td>	Aethod: 245.1 - Mercury (CVAA	4)														
Matrix: Water Prep Type: Total/N Analysis Batch: 679515 MB MB Matrix: Water Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fa Lab Sample ID: LCS 680-679358/3-A 0.20 U 0.20 0.080 ug/L 08/04/21 10:35 08/04/21 16:26 Dil Fa Matrix: Water Value Value Prepared Prepared </td <td>- I ah Sample ID: MB 680-679358/1-A</td> <td></td> <td>Client Sa</td> <td>ample ID: M</td> <td>lethod</td> <td>Blank</td>	- I ah Sample ID: MB 680-679358/1-A												Client Sa	ample ID: M	lethod	Blank
Analysis Batch: 679515 Prep Batch: 67955 MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Di Frepared Mercury 0.20 0.20 U 0.20 0.00 Unit ug/L D Prepared Analyzed Di Frepared Lab Sample ID: LCS 680-679358/3-A Client Sample ID: Lab Control Sample Prep Type: Total/N Matrix: Water Prep Batch: 67935 Prep Batch: 67935	•															
MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fa Mercury 0.20 0.20 0 0.20 0.080 ug/L 08/04/21 10:35 08/04/21 16:26 Lab Sample ID: LCS 680-679358/3-A Katrix: Water Client Sample ID: Lab Control Sample Analysis Batch: 679515 Prep Batch: 679358 Prep Batch: 679358																
AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FaMercury0.200.2000.200.080ug/L08/04/21 10:3508/04/21 16:2608/04/21 16:26Lab Sample ID: LCS 680-679358/3-A Matrix: Water Analysis Batch: 679515Client Sample ID: Lab Control Sample Prep Type: Total/N Prep Batch: 679358	Analysis Daten. 075515		мв	мв										i iep b		1 3330
Mercury 0.20 0.20 0.20 0.20 0.80 ug/L 08/04/21 10:35 08/04/21 16:26 Lab Sample ID: LCS 680-679358/3-A Client Sample ID: Lab Control	Analyte	R				RL		MDL	Unit		D	P	repared	Analyze	ed	Dil Fac
Matrix: Water Prep Type: Total/N Analysis Batch: 679515 Prep Batch: 67935	Mercury		0.20	U		0.20	(0.080	ug/L			08/04	4/21 10:35	08/04/21 1	6:26	1
Matrix: Water Prep Type: Total/N Analysis Batch: 679515 Prep Batch: 67935	Lab Sample ID: LCS 680-679358/3-4	4									С	lient	Sample	ID: I ab Co	ntrol S	ample
Analysis Batch: 679515 Prep Batch: 67935		-									Ŭ		Sampio			
SDIKE LES V. DAA	Analysis Baton. 070010				Spike		1.06	100						%Rec.		

Added

2.50

Result Qualifier

2.48

Unit

ug/L

D

%Rec

99

Limits

85 - 115

QC Sample Results

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-202266-1

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 680-679357/12-/	4											Client Sa	ample ID: Met	nod B	lanl
Matrix: Water													Prep Type	: Tota	1 ////
Analysis Batch: 679448													Prep Bate	h: 679	935
		MB	МВ												
Analyte	Re	sult	Qualifier		RL		MDL	Unit		D	Pr	repared	Analyzed	D	il Fa
Cyanide, Total	0.	.010	U		0.010	0.	0025	mg/L			08/04	4/21 10:30	08/04/21 19:49		
Lab Sample ID: LCS 680-679357/13	-A									CI	ient	Sample	ID: Lab Contr	ol Sar	npl
Matrix: Water													Prep Type	: Tota	i <mark>l/N</mark>
Analysis Batch: 679448													Prep Bato	h: 679	935
				Spike		LCS	LCS						%Rec.		
Analyte				Added		Result	Quali	fier	Unit		D	%Rec	Limits		
Cyanide, Total				0.0500		0.0489			mg/L			98	90 - 110		
Method: 420.1 - Phenolics, Tota	al Reco	over	able												
Lab Sample ID: MB 680-679084/1-A												Client Sa	mple ID: Met	nod B	lan
Matrix: Water													· Prep Type		
Analysis Batch: 679248													Prep Bato		
-		МВ	МВ												
Analyte	Re	sult	Qualifier		RL		MDL	Unit		D	Pr	repared	Analyzed	D	il Fa
Phenolics, Total Recoverable	0.	.050	U		0.050	(0.025	mg/L			08/03	3/21 08:24	08/03/21 12:55	;	
Lab Sample ID: LCS 680-679084/2-4	4									С	ient	Sample	ID: Lab Contr	ol San	npl
Matrix: Water													Prep Type	: Tota	ı <mark>l/N</mark>
Analysis Batch: 679248													Prep Bate	h: 679	908
				Spike		LCS	LCS						%Rec.		
Analyte				Added		Result	Quali	fier	Unit		D	%Rec	Limits		
Phenolics, Total Recoverable				0.100		0.0871			mg/L		_	87	75 - 125		
Lab Sample ID: 680-202266-1 MS											Clie	ent Samp	ole ID: POTW_	20210	072
													Prep Type	: Tota	I/N
Matrix: Water													Prep Bate	h: 679	908
Matrix: Water Analysis Batch: 679248															
	Sample	Samp	le	Spike		MS	MS						%Rec.		
Analysis Batch: 679248 Analyte	Sample Result	-		Spike Added		MS Result		fier	Unit		D	%Rec	%Rec. Limits		
Analysis Batch: 679248 Analyte		Quali						fier	Unit mg/L		<u>D</u>	%Rec			
Analysis Batch: 679248 Analyte	Result	Quali		Added		Result		fier			_	81	Limits)72
Analysis Batch: 679248 Analyte Phenolics, Total Recoverable	Result	Quali		Added		Result		fier			_	81	Limits 75 - 125		
Analysis Batch: 679248 Analyte Phenolics, Total Recoverable Lab Sample ID: 680-202266-1 MSD	Result	Quali		Added		Result		fier			_	81	Limits 75 - 125	: Tota	I/N
Analysis Batch: 679248 Analyte Phenolics, Total Recoverable Lab Sample ID: 680-202266-1 MSD Matrix: Water	Result	Qualit	fier	Added		Result 0.0811		fier			_	81	Limits 75 - 125 Die ID: POTW Prep Type	: Tota	l/N/
Analysis Batch: 679248 Analyte Phenolics, Total Recoverable Lab Sample ID: 680-202266-1 MSD Matrix: Water	Result 0.050	Qualif U Samp	fier	Added 0.100		Result 0.0811	Quali MSD				_	81	Limits 75 - 125 Die ID: POTW Prep Type Prep Bato %Rec.	: Tota h: 679	ul/N/ 908

Eurofins TestAmerica, Savannah

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Water

Water

Water

Water

Water

Matrix

Water

Water

Water

Water

Water

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Client Sample ID

POTW_20210729

Lab Control Sample

POTW_20210729

POTW_20210729

Client Sample ID

POTW_20210729

Lab Control Sample

POTW_20210729

POTW_20210729

Method Blank

Method Blank

Job ID: 680-202266-1

Prep Batch

Prep Batch

679090

679090

679090

679090

679090

Method

200.8

200.8

200.8

200.8

200.8

Method

200.8

200.8

200.8

200.8

200.8

8 9 10

Prep Batch: 679358

Metals

Prep Batch: 679090

MB 680-679090/1-A

LCS 680-679090/2-A

680-202266-1 MS

Lab Sample ID

680-202266-1

MB 680-679090/1-A

LCS 680-679090/2-A

680-202266-1 MS

680-202266-1 MSD

680-202266-1 MSD

Analysis Batch: 679296

680-202266-1

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-202266-1	POTW_20210729	Total/NA	Water	245.1	
MB 680-679358/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-679358/3-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 679515

	ab Sample ID	Client Sample ID POTW 20210729	Prep Type Total/NA	Matrix Water	Method 245.1	Prep Batch 679358
	1B 680-679358/1-A	Method Blank	Total/NA	Water	245.1	679358
L	CS 680-679358/3-A	Lab Control Sample	Total/NA	Water	245.1	679358

General Chemistry

Prep Batch: 679084

Lab Sample ID 680-202266-1	Client Sample ID POTW 20210729	Prep Type Total/NA	Matrix Water	Method Distill/Phenol	Prep Batch
MB 680-679084/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-679084/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
680-202266-1 MS	POTW_20210729	Total/NA	Water	Distill/Phenol	
680-202266-1 MSD	POTW_20210729	Total/NA	Water	Distill/Phenol	

Analysis Batch: 679248

Lab Sample ID 680-202266-1	Client Sample ID POTW_20210729	Prep Type Total/NA	Matrix Water	420.1	Prep Batch 679084
MB 680-679084/1-	A Method Blank	Total/NA	Water	420.1	679084
LCS 680-679084/2	2-A Lab Control Sample	Total/NA	Water	420.1	679084
680-202266-1 MS	POTW_20210729	Total/NA	Water	420.1	679084
680-202266-1 MS	D POTW_20210729	Total/NA	Water	420.1	679084

Prep Batch: 679357

Lab Sample ID 680-202266-1	Client Sample ID POTW 20210729	Prep Type	Matrix Water	Method Distill/CN	Prep Batch
MB 680-679357/12-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-679357/13-A	Lab Control Sample	Total/NA	Water	Distill/CN	

QC Association Summary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-202266-1

General Chemistry

Analysis Batch: 679448

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-202266-1	POTW_20210729	Total/NA	Water	335.4	679357
MB 680-679357/12-A	Method Blank	Total/NA	Water	335.4	679357
LCS 680-679357/13-A	Lab Control Sample	Total/NA	Water	335.4	679357

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-202266-1

Matrix: Water

Lab Sample ID: 680-202266-1

2 3 4 5 6 7 8 9 10 11 11

Client Sample ID: POTW_20210729 Date Collected: 07/29/21 13:55 Date Received: 07/30/21 10:20

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			679090	08/03/21 08:56	BJB	TAL SAV
Total/NA	Analysis	200.8		1	679296	08/04/21 00:24	BWR	TAL SAV
Total/NA	Prep	245.1			679358	08/04/21 10:35	JKL	TAL SAV
Total/NA	Analysis	245.1		1	679515	08/04/21 16:43	JKL	TAL SAV
Total/NA	Prep	Distill/CN			679357	08/04/21 10:34	AE	TAL SAV
Total/NA	Analysis	335.4		1	679448	08/04/21 19:57	ALG	TAL SAV
Total/NA	Prep	Distill/Phenol			679084	08/03/21 08:24	SM	TAL SAV
Total/NA	Analysis	420.1		1	679248	08/03/21 12:55	SM	TAL SAV

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

		estAmerica, Savannah	aboratory: Eurofins
		 ed below are applicable to this report.	he accreditations/certifications lis
e	Iumber Expiration Date	Program	Authority
	04-01-22	NELAP	ew York

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly POTW

Job ID: 680-202266-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
335.4	Cyanide, Total	MCAWW	TAL SAV
420.1	Phenolics, Total Recoverable	MCAWW	TAL SAV
200.8	Preparation, Total Metals	EPA	TAL SAV
245.1	Preparation, Mercury	EPA	TAL SAV
Distill/CN	Distillation, Cyanide	None	TAL SAV
Distill/Phenol	Distillation, Phenolics	None	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. None = None

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Convisionment Testing TestAmerica	TAL-8210 COC No: COC No: Sampler: For Lab Use Only: Walk-in Client: Lab Sampling: Sample Specific Notes:	A fee may be assessed if samples are retained longer than 1 month) Imp. (°C): Obsid: I.Y I.S Imp. (°C): Obsid: Corrid: Therm ID No: Imp. (°C): Obsid: Corrid: Therm ID No: Imp. (°C): Obsid: Company: Date/Time: Imp. (°C): Obsid: Company: Date/Time: Imp. (°C): Obsid: Company: Date/Time:
ord 530078	Date:	Tay be assessed if samples Disposal by Lab Disposal by Lab I. Y Company: Company: Company:
Chain of Custody Record	NPDES N	Sample Disposal Sample Disposal Recrited by: Received by: Received in Labor
	rogram: Dw (230) Hume Turnaround Time Turnaround Time 2 weeks 1 week 2 days 1 day 1 day (C CU)	N03; 5=NaOH; 6= Other Please List any EPA Waste Codes for the sample in the ant □Poison B □Inknown OUP, W Custody Seal No.: Company: □Date/Time: Company: P DAAN 135,211700 Company: Date/Time:
AIDAITY #224 Address:	Reg Company Name Ant-cu. Group Company Name Ant-cu. Group Address JI Roytman.l. B.J. Address JI Roytman.l. B.J. Clivy/State/Zp. unic; Hard-f.D.a.d. Phone 513 359 Fax Project Name: A shi on i Blenci Falls Quurkerly Row Project Name: A shi on i Blenci Falls Quurkerly Row Point Sile: Date Point Point Blenci Falls Quurkerly Row Point Blenci Falls Quurkerly Row Banple Point Blenci Falls Date Point Banple Banple Point Banple Banple Banple Banple Banple Banple Banple Banple	Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Was Comments Section if the lab is to dispose of the sample. Inon-Hazard Elamable Special Instructions/GC Requirements & Comments: Arm a _i / UOY, hume@onde.one Custody Seals Intact: Yes Relinquished by: No Relinquished by: Company: Relinquished by: ETA

Login Sample Receipt Checklist

Client: Ashland LLC

Login Number: 202266 List Number: 1

Creator: Sims, Robert D

Answer (Comment
N/A	
True	
N/A	
True	
True	
N/A	
	V/A True True <tr< td=""></tr<>

Job Number: 680-202266-1

List Source: Eurofins TestAmerica, Savannah

Hercules Incorporated 5475 Rings Rd., Suite 500 Atrium North Tower Dublin, Ohio 43017



January 20, 2022

Mr. Chris Miller Glens Falls Wastewater Treatment Plant Water and Sewer Department 2 Shermantown Road Glens Falls, New York 12801

RE: Discharge Monitoring Report for 4th Quarter 2021 Industrial Wastewater - Discharge Permit No. 002F

Dear Mr. Miller:

Attached is the 4th Quarter 2021 Discharge Monitoring Report for the Hercules/Ciba site. The wastewater sample was collected on December 15, 2021. All parameters meet the limits of the wastewater discharge permit effective April 23, 2007 which was subsequently renewed in April 2012 and April 2017.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

If you have any questions, please contact me at (614) 790-6146.

Sincerely,

ann Hadan

James E. Vondracek, P.E. Principal Remediation Engineer

Attachments cc: Stephen K. Havlik, BASF Corporation, Toms River, NJ ATTACHMENT 1

DISCHARGE DATA

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:	Test America	Test America	Test America	Test America	Test America		
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1 Acid	MCAWW 335.4 NaOH	MCAWW 420.1		
PRESERVED:	Acid	Acid			Chillad		
	Chilled	Chilled	Chilled	Chilled	Chilled	0	0
	Total	Total	Total	Total		Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	рН	gpd
POTW Permit or n						6.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quarterly ave.			0.005				175,000
In Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	0.48	0.00			0.00	7.2	
Quarterly min. Quarterly ave.	0.48	0.00	0.0000	0.57	0.00	7.4	<u>26,000</u> 65,913
Quarterly max. Data points	0.48	0.00	0.0000	0.57	0.00	7.6 72	<u>119,00</u> 92
Date:						7.0	F2 00
10/01/21						7.2	53,00
10/02/21						7.5	50,000
10/03/21						7.3	65,000
10/04/21						7.2	53,00
10/05/21						NF	53,00
10/06/21						NF	71,000
10/07/21						7.3	66,00
10/08/21						7.3	67,00
10/09/21						7.4	73,00
10/10/21						7.2	61,00
10/11/21						7.2	71,00
10/12/21						7.2	66,00
10/13/21						7.3	59,00
10/14/21						7.3	74,00
10/15/21						NF	62,00
10/16/21						7.3	64,00
10/17/21						7.2	74,00
10/18/21						7.4	109,00
10/19/21						7.4	93,00
10/20/21						7.3	92,00
10/21/21						NF	94,00
10/22/21						7.4	81,00
10/23/21						NF	91,00
10/24/21						7.4	26,00
10/25/21						7.4	119,00
10/26/21						NF	73,00
10/27/21						7.4	92,00
10/28/21						7.4	101,00
10/29/21						7.5	92,00
10/30/21						NF	95,000
10/31/21						7.4	71,00

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTW
	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Meter
ANALYZED BY:	Test America						
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH	<u> </u>		
	Chilled	Chilled	Chilled	Chilled	Chilled		
	Total	Total	Total	Total		Compliance	Compliance
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Point
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	рН	gpd
POTW Permit or m						6.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,000
Quarterly ave.			0.005				175,000
In Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Quarterly min.	0.48	0.00	0.0000	0.57	0.00	7.2	26,000
Quarterly ave.	0.48	0.00	0.0000	0.57	0.00	7.4	65,913
Quarterly max.	0.48	0.00	0.0000	0.57	0.00	7.6	119,00
Data points	1	1	1	1	1	72	92
Date: 11/01/21						7.4	94,00
11/02/21						7.4	94,00
11/03/21						7.4	94,00
11/04/21						7.4	79,00
11/05/21						7.5	79,00
						7.5	
11/06/21 11/07/21						7.5	73,00 70,00
						7.5	
11/08/21							69,00
11/09/21						NF	68,00
11/10/21						7.3	65,00
11/11/21						7.3	57,00
11/12/21						7.4	67,00
11/13/21						7.4	62,00
11/14/21						7.5	65,00
11/15/21						7.4	73,00
11/16/21						7.4	73,00
11/17/21						7.4	70,00
11/18/21						7.4	76,00
11/19/21						7.5	61,00
11/20/21						NF	70,00
11/21/21						7.4	57,00
11/22/21						NF	62,00
11/23/21						7.4	59,00
11/24/21						7.4	66,00
11/25/21						7.5	56,00
11/26/21						NF	52,00
11/27/21						7.4	60,00
11/28/21						NF	57,00
11/29/21						7.4	31,00
11/30/21						7.2	84,00

LOCATION:	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW-CG	POTW	POTV
	Sampler	Sampler	Sampler	Sampler	Sampler	Meter	Mete
ANALYZED BY:		Fest America	Test America	Test America	Test America		
LAB METHOD:	EPA 200.8	EPA 200.8	EPA 245.1	MCAWW 335.4	MCAWW 420.1		
PRESERVED:	Acid	Acid	Acid	NaOH	-		
	Chilled	Chilled	Chilled	Chilled	Chilled	-	
	Total	Total	Total	Total		Compliance	Complianc
	Chromium	Lead	Mercury	Cyanide	Phenols	Point	Poir
Units:	mg/l	mg/l	mg/l	mg/l	mg/l	рН	gp
POTW Permit or m						6.0	
Daily max.	NS	0.8	0.025	3.0	5.0	9.0	350,00
Quarterly ave.			0.005				175,00
n Compliance	Vaa	Vaa	Yes	Vaa	Yes	Yes	Va
	Yes	Yes		Yes			Ye
Quarterly min.	0.48	0.00	0.0000	0.57	0.00	7.2 7.4	26,00
Quarterly ave.			0.0000		0.00		65,91
Quarterly max. Data points	0.48	0.00	0.0000	0.57	0.00	<u>7.6</u> 72	<u>119,00</u> 9
Data points	I	1	1	1	I	12	
Date: 12/01/21						NF	54,00
12/02/21						 7.6	54,00 54,00
12/03/21						7.4	55,00
12/04/21							66,00
12/05/21						NF	48,00
12/06/21						NF	48,00 65,00
12/07/21						7.4	52,00
12/08/21						7.4	48,00
12/09/21						7.4	57,00
12/10/21							54,00
12/11/21						7.5	54,00
12/12/21						7.4	54,00
12/13/21						7.4	66,00
12/14/21						7.3	58,00
12/15/21	0.480	ND	ND	0.570	ND	NF	61,00
12/16/21	0.400	ND	ND	0.070	ND	7.3	57,00
12/17/21						7.5	51,00
12/18/21						7.4	60,00
12/19/21						7.5	65,00
12/20/21						7.5	49,00
12/21/21						7.4	56,00
12/22/21						7.4	49,00
12/23/21							57,00
12/24/21						7.5	48,00
12/25/21						7.4	<u>48,00</u> 53,00
12/26/21						7.5	44,00
12/27/21						7.4	59,00
12/28/21						7.6	55,00
12/29/21						NF	52,00
12/30/21						7.4	63,00
12/31/21						7.4	49,00
uarterly Average f	or Chromium						,00
oncentration	0.48 mg/						
Ave. Flow	65,913 gpd						
Ave. Load	0.26 #/da						
PERMIT	3.10 #/da						

NF: No Flow

NS: No Standard. No instantaneous maximum for Total Chromium.

The laboratory Reporting Limit for Lead is 0.0025 mg/L

The laboratory Reporting Limit for Mercury is 0.00020 mg/L. The laboratory Reporting Limit for Phenols is 0.050 mg/L.

Table 2POTW Effluent Extended Parameters – 4th Quarter 2021Glens Falls, New YorkDecember 15, 2021

	Effluent Limi	tations	Effluent Co	oncentrations
	Instantaneous Maximum	Quarterly Average		
Parameter	mg/L	mg/L	Conc.	Units
Antimony	10	-	0.0041 J	mg/L
Ammonia	40	-	<0.25	mg/L
Arsenic	0.25	-	< 0.003	mg/L
Benzene	0.1	-	<0.001	mg/L
Boron	5	-	0.19	mg/L
Cadmium	0.25	-	0.0016	mg/L
Calcium	500	-	68.0	mg/L
Chloroform	1	-	<0.001	mg/L
Chromium, total	See below*	3.1 lb/day	0.48	mg/L
Copper	1	-	0.0027 J	mg/L
Cyanide, total	3	-	0.57	mg/L
Ethylbenzene	0.1	-	<0.001	mg/L
Iron	50	-	0.27	mg/L
Lead	0.8	-	<0.0025	mg/L
Manganese	5	-	0.0039 J	mg/L
Mercury	0.025	0.005	<0.0002	mg/L
Methylene Chloride	1	-	<0.005	mg/L
Napthalene	1	-	<0.0047	mg/L
Nickel	2.3	-	<0.005	mg/L
Oil & Grease	50	-	<5.1	mg/L
pH (Standard Units)	6.0 - 9.0	-	8.1	SU
Phenols	5	-	<0.05	mg/L
Silver	0.2	-	<0.001	mg/L
Toluene	0.1	-	<0.001	mg/L
1,1,1 - Trichloroethane	1	-	<0.001	mg/L
Xylene	0.1	-	<0.002	mg/L
Zinc	1.5	-	0.013 J	mg/L
Flow (gallons per day)	350,000	175,000	61,000	gpd

*Discharge for total chromium is 3.1 lb/day and will be based on the average of chromium sampling data and the quarterly average flow.

- : No standard value

J: Lab estimated value (Between the method detection limit and the reporting limit)

<3.0 : The analyte was not detected and the value is below the laboratory reporting limit

Bold: Analyte exceeded the permitted effulent limitations

ATTACHMENT 2

ANALYTICAL DATA

ANALYTICAL REPORT

Eurofins TestAmerica, Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

Laboratory Job ID: 680-208976-1

Client Project/Site: Hercules Glens Falls O&M Quarterly

For:

Ashland LLC 5200 Blazer Parkway DS-4 Dublin, Ohio 43017

Attn: Mr. Jim Vondracek

David Inller

Authorized for release by: 12/30/2021 11:20:45 AM

David Fuller, Project Manager (770)344-8986 David.Fuller@Eurofinset.com

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS Review your project results through TOTOLACCESS Have a Question? Have a Question? Chask The Expert

Visit us at: www.eurofinsus.com/Env

Definitions/Glossary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Job ID: 680-208976-1

2

Qualifiers

Quaimers		_ 3
GC/MS VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	_
GC/MS Semi	VOA	5
Qualifier	Qualifier Description	_
S1-	Surrogate recovery exceeds control limits, low biased.	6
U	Indicates the analyte was analyzed for but not detected.	
Metals		
Qualifier	Qualifier Description	
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.	- 8
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
U	Indicates the analyte was analyzed for but not detected.	9
General Che	nistry	
Qualifier	Qualifier Description	
Н	Sample was prepped or analyzed beyond the specified holding time	_
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		- 12

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-208976-1	POTW_20211215	Water	12/15/21 12:30	12/16/21 11:00
680-208976-2	Trip Blank	Water	12/15/21 00:00	12/16/21 11:00

Job ID: 680-208976-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

Receipt

The samples were received on 12/16/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

Method 624: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 680-700612, 680-700620, and 680-700917.

GC/MS Semi VOA

Method 625.1: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: POTW_20211215 (680-208976-1). These results have been reported and qualified.

Metals

Methods 200.8: The interference check standard solution (ICSA) associated with the following samples showed results for cadmium at a level greater than the reporting limit (RL). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. (ICSA 680-700205/17)

General Chemistry

Method 1664A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 680-699924.

Method 335.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-699463 and analytical batch 680-700077 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 335.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 680-699463 and analytical batch 680-700077 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 420.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 700300 and analytical batch 700364 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 5210B - BOD: The sample for this method was prepped outside the 48 hour holding time due to a scheduling error at the lab.

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Client Sample ID: POTW_20211215 Date Collected: 12/15/21 12:30 Date Received: 12/16/21 11:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	1.0	U	1.0	0.43	ug/L			12/28/21 22:01	
Chloroform	1.0	U	1.0	0.50	ug/L			12/28/21 22:01	
thylbenzene	1.0	U	1.0	0.33	ug/L			12/28/21 22:01	
lethylene Chloride	5.0	U	5.0	2.5	ug/L			12/28/21 22:01	
oluene	1.0	U	1.0	0.48	ug/L			12/28/21 22:01	
,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			12/28/21 22:01	
ylenes, Total	2.0	U	2.0	0.57	ug/L			12/28/21 22:01	
urrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
oluene-d8 (Surr)	104		79 - 119			-		12/28/21 22:01	
2-Dichloroethane-d4 (Surr)	92		70 - 130					12/28/21 22:01	
-Bromofluorobenzene (Surr)	107		71 - 121					12/28/21 22:01	
Dibromofluoromethane (Surr)	104		77 - 129					12/28/21 22:01	

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	4.7	U	4.7	1.6	ug/L		12/17/21 15:36	12/22/21 22:51	1
2,4,6-Trichlorophenol	4.7	U	4.7	1.0	ug/L		12/17/21 15:36	12/22/21 22:51	1
Naphthalene	4.7	U	4.7	1.7	ug/L		12/17/21 15:36	12/22/21 22:51	1
Pentachlorophenol	24	U	24	4.7	ug/L		12/17/21 15:36	12/22/21 22:51	1

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	82	30 - 130	12/17/21 15:36	12/22/21 22:51	1
2-Fluorobiphenyl	73	25 - 130	12/17/21 15:36	12/22/21 22:51	1
2-Fluorophenol	48	10 - 130	12/17/21 15:36	12/22/21 22:51	1
Nitrobenzene-d5	57	15 - 314	12/17/21 15:36	12/22/21 22:51	1
Phenol-d5	50	8 - 424	12/17/21 15:36	12/22/21 22:51	1
Terphenyl-d14	28 S1	1- 35 - 131	12/17/21 15:36	12/22/21 22:51	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	190		100	36	ug/L		12/17/21 11:59	12/21/21 03:50	1
Calcium	68000		500	25	ug/L		12/17/21 11:59	12/21/21 03:50	1

Method: 200.8 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.1	J	5.0	0.50	ug/L		12/17/21 11:59	12/21/21 18:36	1
Arsenic	3.0	U	3.0	1.5	ug/L		12/17/21 11:59	12/21/21 18:36	1
Cadmium	1.6	^6+	0.50	0.15	ug/L		12/17/21 11:59	12/21/21 18:36	1
Chromium	480		5.0	1.6	ug/L		12/17/21 11:59	12/21/21 18:36	1
Copper	2.7	J	5.0	1.7	ug/L		12/17/21 11:59	12/21/21 18:36	1
Iron	270		100	25	ug/L		12/17/21 11:59	12/21/21 18:36	1
Lead	2.5	U	2.5	0.98	ug/L		12/17/21 11:59	12/21/21 18:36	1
Manganese	3.9	J	5.0	1.8	ug/L		12/17/21 11:59	12/21/21 18:36	1
Nickel	5.0	U	5.0	1.9	ug/L		12/17/21 11:59	12/21/21 18:36	1
Silver	1.0	U	1.0	0.10	ug/L		12/17/21 11:59	12/21/21 18:36	1
Zinc	13	J	20	9.6	ug/L		12/17/21 11:59	12/21/21 18:36	1
Method: 245.1 - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.080	ug/L		12/17/21 10:25	12/17/21 16:42	1

Eurofins TestAmerica, Savannah

Job ID: 680-208976-1

Matrix: Water

Lab Sample ID: 680-208976-1

3 4 5 6 7 8

NONE

RL

5.1

0.10

0.25

0.050

6.0

RL

2.5

NONE Unit

MDL Unit

0.025 mg/L

0.10 mg/L

0.025 mg/L

6.0 mg/L

RL Unit

2.5 mg/L

1.4 mg/L

รบ

Degrees C

D

D

D

Prepared

Prepared

12/20/21 12:00

12/22/21 11:33

Prepared

Result Qualifier

Result Qualifier

8.1 HF

19.5 HF

5.1 U

0.25 U

6.0 UH

Result Qualifier

0.050 U

13

0.57

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Client Sample ID: POTW_20211215 Date Collected: 12/15/21 12:30 Date Received: 12/16/21 11:00

General Chemistry

Analyte

Analyte

Ammonia

Analyte

Temperature

HEM (Oil & Grease)

Phenolics, Total Recoverable

Biochemical Oxygen Demand

Total Suspended Solids

Cyanide, Total

pН

Lab Sample ID: 680-208976-1 Matrix: Water

Analyzed

12/22/21 13:52

12/22/21 13:52

Analyzed

12/20/21 23:32

12/21/21 16:43

12/22/21 14:39

12/17/21 19:45

Analyzed

12/16/21 17:53

12/21/21 06:30 12/21/21 10:23

Dil Fac

Dil Fac

1

1

1

10

1

1

1

1

Dil Fac

Job ID: 680-208976-1

12/30/2021

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Client Sample ID: Trip Blank Date Collected: 12/15/21 00:00 Date Received: 12/16/21 11:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			12/24/21 16:52	1
Chloroform	1.0	U	1.0	0.50	ug/L			12/24/21 16:52	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			12/24/21 16:52	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			12/24/21 16:52	1
Toluene	1.0	U	1.0	0.48	ug/L			12/24/21 16:52	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			12/24/21 16:52	1
Xylenes, Total	2.0	U	2.0	0.57	ug/L			12/24/21 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		79 - 119			-		12/24/21 16:52	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130					12/24/21 16:52	1
4-Bromofluorobenzene (Surr)	100		71 - 121					12/24/21 16:52	1
Dibromofluoromethane (Surr)	103		77 - 129					12/24/21 16:52	1

Job ID: 680-208976-1

Matrix: Water

Lab Sample ID: 680-208976-2

QC Sample Results

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-700612/9 Matrix: Water

Analysis Batch: 700612

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			12/24/21 14:21	1
Chloroform	1.0	U	1.0	0.50	ug/L			12/24/21 14:21	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			12/24/21 14:21	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			12/24/21 14:21	1
Toluene	1.0	U	1.0	0.48	ug/L			12/24/21 14:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			12/24/21 14:21	1
Xylenes, Total	2.0	U	2.0	0.57	ug/L			12/24/21 14:21	1

	MB	МВ					
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
Toluene-d8 (Surr)	107		79 - 119		12/24/21 14:21	1	
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		12/24/21 14:21	1	
4-Bromofluorobenzene (Surr)	103		71 - 121		12/24/21 14:21	1	
Dibromofluoromethane (Surr)	101		77 - 129		12/24/21 14:21	1	

Lab Sample ID: LCS 680-700612/4 **Matrix: Water** Analysis Batch: 700612

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50.0	50.0		ug/L		100	37 - 151	
Chloroform	50.0	50.0		ug/L		100	51 - 138	
Ethylbenzene	50.0	53.0		ug/L		106	37 - 162	
Methylene Chloride	50.0	50.6		ug/L		101	1_221	
Toluene	50.0	54.0		ug/L		108	47 - 150	
1,1,1-Trichloroethane	50.0	52.7		ug/L		105	52 - 162	
Xylenes, Total	100	108		ug/L		108	78 - 119	

	LCS	LCS		
Surrogate	%Recovery	Qualifier	Limits	
Toluene-d8 (Surr)	103		79 - 119	
1,2-Dichloroethane-d4 (Surr)	93		70 - 130	
4-Bromofluorobenzene (Surr)	99		71 - 121	
Dibromofluoromethane (Surr)	107		77 - 129	

Lab Sample ID: LCSD 680-700612/5 Matrix: Water Analysis Batch: 700612

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	50.0	49.9		ug/L		100	37 - 151	0	30
Chloroform	50.0	49.9		ug/L		100	51 - 138	0	30
Ethylbenzene	50.0	52.7		ug/L		105	37 - 162	0	30
Methylene Chloride	50.0	47.3		ug/L		95	1_221	7	30
Toluene	50.0	53.5		ug/L		107	47 - 150	1	30
1,1,1-Trichloroethane	50.0	54.3		ug/L		109	52 - 162	3	30
Xylenes, Total	100	108		ug/L		108	78 - 119	0	30

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Eurofins TestAmerica, Savannah

Prep Type: Total/NA

Client Sample ID: Method Blank



Limits

79 - 119

70 - 130

71 - 121

77 - 129

Lab Sample ID: LCSD 680-700612/5

Matrix: Water

Toluene-d8 (Surr)

Surrogate

Analysis Batch: 700612

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued

LCSD LCSD %Recovery Qualifier

101

93

102

104

Job ID: 680-208976-1

MS) (C	ontinued)					
	Clie	ent Samı	ple ID: Lab	Control Sam Prep Type: 1		
						Ę
-						(
		(Client Sam	ole ID: Metho	d Blank	8
				Prep Type: 1		
RL	MDL Unit	D	Prepared	Analvzed	Dil Fac	

Lab Sample ID: MB 680-700917/9 Matrix: Water Analysis Batch: 700917

	MB	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.43	ug/L			12/28/21 13:14	1
Chloroform	1.0	U	1.0	0.50	ug/L			12/28/21 13:14	1
Ethylbenzene	1.0	U	1.0	0.33	ug/L			12/28/21 13:14	1
Methylene Chloride	5.0	U	5.0	2.5	ug/L			12/28/21 13:14	1
Toluene	1.0	U	1.0	0.48	ug/L			12/28/21 13:14	1
1,1,1-Trichloroethane	1.0	U	1.0	0.37	ug/L			12/28/21 13:14	1
Xylenes, Total	2.0	U	2.0	0.57	ug/L			12/28/21 13:14	1

	MB M	В			
Surrogate	%Recovery Q	ualifier Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106	79 - 119		12/28/21 13:14	1
1,2-Dichloroethane-d4 (Surr)	88	70 - 130)	12/28/21 13:14	1
4-Bromofluorobenzene (Surr)	106	71 - 121		12/28/21 13:14	1
Dibromofluoromethane (Surr)	96	77 - 129	•	12/28/21 13:14	1

Lab Sample ID: LCS 680-700917/4 Matrix: Water Analysis Batch: 700917

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50.0	48.9		ug/L		98	37 - 151	
Chloroform	50.0	49.1		ug/L		98	51 - 138	
Ethylbenzene	50.0	56.1		ug/L		112	37 - 162	
Methylene Chloride	50.0	49.2		ug/L		98	1 - 221	
Toluene	50.0	52.7		ug/L		105	47 - 150	
1,1,1-Trichloroethane	50.0	51.6		ug/L		103	52 - 162	
Xylenes, Total	100	112		ug/L		112	78 - 119	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	108		79 - 119
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
4-Bromofluorobenzene (Surr)	97		71 - 121
Dibromofluoromethane (Surr)	99		77 - 129

Eurofins TestAmerica, Savannah

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Job ID: 680-208976-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-700917/5 **Matrix: Water** Ana

Wallin. Walei									гіер іу	pe. 101	,ai/INA
Analysis Batch: 700917											
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			50.0	48.5		ug/L		97	37 - 151	1	30
Chloroform			50.0	49.5		ug/L		99	51 - 138	1	30
Ethylbenzene			50.0	54.4		ug/L		109	37 - 162	3	30
Methylene Chloride			50.0	47.9		ug/L		96	1_221	3	30
Toluene			50.0	52.0		ug/L		104	47 - 150	1	30
1,1,1-Trichloroethane			50.0	49.4		ug/L		99	52 - 162	4	30
Xylenes, Total			100	110		ug/L		110	78 - 119	2	30
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
Toluene-d8 (Surr)	105		79 - 119								
1,2-Dichloroethane-d4 (Surr)	90		70 - 130								

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

98

100

Lab Sample ID: MB 680-699476/12-A **Matrix: Water** Analysis Batch: 700270

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

			IVID							
A	nalyte Res	ult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,	4,5-Trichlorophenol	5.0	U	5.0	1.7	ug/L		12/17/21 15:36	12/22/21 16:56	1
2,	4,6-Trichlorophenol	5.0	U	5.0	1.1	ug/L		12/17/21 15:36	12/22/21 16:56	1
Na	aphthalene	5.0	U	5.0	1.8	ug/L		12/17/21 15:36	12/22/21 16:56	1
Pe	entachlorophenol	25	U	25	5.0	ug/L		12/17/21 15:36	12/22/21 16:56	1

71 - 121

77 - 129

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	93		30 - 130	12/17/21 15:36	12/22/21 16:56	1
2-Fluorobiphenyl	81		25 - 130	12/17/21 15:36	12/22/21 16:56	1
2-Fluorophenol	61		10 - 130	12/17/21 15:36	12/22/21 16:56	1
Nitrobenzene-d5	66		15 - 314	12/17/21 15:36	12/22/21 16:56	1
Phenol-d5	60		8 - 424	12/17/21 15:36	12/22/21 16:56	1
Terphenyl-d14	91		35 - 131	12/17/21 15:36	12/22/21 16:56	1

Lab Sample ID: LCS 680-699476/13-A **Matrix: Water** Analysis Batch: 700270

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 699476

	Prep Batch: 699476
	%Rec.
Rec	Limits

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2,4,5-Trichlorophenol	100	74.6		ug/L		75	26 - 130	
2,4,6-Trichlorophenol	100	76.3		ug/L		76	37 - 144	
Naphthalene	100	52.4		ug/L		52	21 - 133	
Pentachlorophenol	200	178		ug/L		89	14 - 176	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol	87		30 - 130
2-Fluorobiphenyl	63		25 - 130
2-Fluorophenol	48		10 - 130

Eurofins TestAmerica, Savannah

6

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-699476/13-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Prep Batch: 699476 Analysis Batch: 700270 LCS LCS %Recovery Qualifier Surrogate Limits Nitrobenzene-d5 56 15_314 Phenol-d5 48 8 - 424 76 Terphenyl-d14 35 - 131 Lab Sample ID: LCSD 680-699476/14-A **Client Sample ID: Lab Control Sample Dup Matrix: Water** Prep Type: Total/NA Analysis Batch: 700270 Prep Batch: 699476 Spike LCSD LCSD %Rec. RPD Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 26 - 130 2,4,5-Trichlorophenol 100 81.7 ug/L 82 9 43 ug/L 2,4,6-Trichlorophenol 100 84.9 85 37 - 144 58 11 Naphthalene 100 56.2 ug/L 56 21 - 133 7 65 Pentachlorophenol 200 189 ug/L 94 14 - 176 6 86 LCSD LCSD %Recovery Qualifier Surrogate Limits 2,4,6-Tribromophenol 90 30 - 130 2-Fluorobiphenyl 69 25 - 130 2-Fluorophenol 53 10 - 130 Nitrobenzene-d5 62 15-314 Phenol-d5 56 8 - 424 Terphenyl-d14 70 35 - 131 Method: 200.7 Rev 4.4 - Metals (ICP) Lab Sample ID: MB 680-699444/1-A **Client Sample ID: Method Blank**

Matrix: Water Analysis Batch: 700030	MD	мв						Prep Type: To Prep Batch:	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	36	ug/L		12/17/21 11:59	12/21/21 02:35	1
Calcium	500	U	500	25	ug/L		12/17/21 11:59	12/21/21 02:35	1

Lab Sample ID: LCS 680-699444/2-A Matrix: Water Analysis Batch: 700030	Spike	1.05	LCS	Clie	ent Sai	mple ID	: Lab Control Sample Prep Type: Total/NA Prep Batch: 699444 %Rec.
Analyte	Spike Added	-	Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	200	198		ug/L		99	85 - 115
Calcium	5000	4790		ug/L		96	85 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-699445/1- Matrix: Water Analysis Batch: 700205		МВ						le ID: Method Prep Type: To Prep Batch: (otal/NA
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.0		5.0	0.50	ug/L		12/17/21 11:59	12/21/21 17:57	1
Arsenic	3.0	U	3.0	1.5	ug/L		12/17/21 11:59	12/21/21 17:57	1

Eurofins TestAmerica, Savannah

Job ID: 680-208976-1

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Prep Type: Total/NA

Client Sample ID: Method Blank

5 6

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-699445/1-A **Matrix: Water** Analysis Batch: 700205

Analysis Batch: 700205								Prep Batch:	699445
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.50	U ^6+	0.50	0.15	ug/L		12/17/21 11:59	12/21/21 17:57	1
Chromium	5.0	U	5.0	1.6	ug/L		12/17/21 11:59	12/21/21 17:57	1
Copper	5.0	U	5.0	1.7	ug/L		12/17/21 11:59	12/21/21 17:57	1
Iron	100	U	100	25	ug/L		12/17/21 11:59	12/21/21 17:57	1
Lead	2.5	U	2.5	0.98	ug/L		12/17/21 11:59	12/21/21 17:57	1
Manganese	5.0	U	5.0	1.8	ug/L		12/17/21 11:59	12/21/21 17:57	1
Nickel	5.0	U	5.0	1.9	ug/L		12/17/21 11:59	12/21/21 17:57	1
Silver	1.0	U	1.0	0.10	ug/L		12/17/21 11:59	12/21/21 17:57	1
Zinc	20	U	20	9.6	ug/L		12/17/21 11:59	12/21/21 17:57	1

Lab Sample ID: LCS 680-699445/2-A **Matrix: Water** Analysis Batch: 700205

Analysis Batch: 700205							Prep Batch: 699445
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	49.6		ug/L		99	85 - 115
Arsenic	100	95.1		ug/L		95	85 - 115
Cadmium	50.0	47.9	^6+	ug/L		96	85 - 115
Chromium	100	97.2		ug/L		97	85 - 115
Copper	99.1	98.5		ug/L		99	85 - 115
Iron	5000	5030		ug/L		101	85 - 115
Lead	505	517		ug/L		103	85 - 115
Manganese	400	397		ug/L		99	85 - 115
Nickel	99.0	93.0		ug/L		94	85 - 115
Silver	50.0	50.0		ug/L		100	85 - 115
Zinc	100	94.8		ug/L		95	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-699 Matrix: Water Analysis Batch: 700099	420/1-A						Clie	ent Samp	ole ID: Method Prep Type: To Prep Batch:	otal/NA
	MB	MB							-	
Analyte	Result	Qualifier		RL	MDL Uni	t D	Р	repared	Analyzed	Dil Fac
Mercury	0.20	U	0	.20	0.080 ug/l		12/1	7/21 10:25	12/17/21 16:06	1
Lab Sample ID: LCS 680-699 Matrix: Water Analysis Batch: 700099	9420/3-A		Spike	I CS	S LCS	Clien	t Sai	mple ID:	Lab Control S Prep Type: To Prep Batch: %Rec.	otal/NA
Analyte			Added		t Qualifier	Unit	D	%Rec	Limits	
Mercury			2.50	2.44	ļ	ug/L		98	85 - 115	

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 699445

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Job ID: 680-208976-1

6

Lab Sample ID: MB 680-699924/1-A										Clie	nt Samp	ole ID: Me	ethod	Blanl
Matrix: Water												Prep Typ		
Analysis Batch: 700048												Prep Ba	tch: 6	9992
		MB							_	_				
		Qualifier		RL		MDL U			<u>D</u>		epared	Analyz		Dil Fa
HEM (Oil & Grease)	5.0	U		5.0		1.4 n	ng/L			12/21	1/21 06:30	12/21/21	10:23	
Lab Sample ID: LCS 680-699924/2-A	4							Cli	ent	San	nple ID:	Lab Con	trol S	ampl
Matrix: Water												Prep Ty		
Analysis Batch: 700048												Prep Ba	tch: 6	9992
			Spike		LCS	LCS						%Rec.		
Analyte			Added			Qualif	fier	Unit		D	%Rec	Limits		
HEM (Oil & Grease)			40.0		37.40			mg/L			93	78 - 114		
Lab Sample ID: LCSD 680-699924/3	-A						С	lient S	Sam	ple	ID: Lab	Control S	Samp	e Du
Matrix: Water												Prep Ty		
Analysis Batch: 700048												Prep Ba		
			Spike		LCSD	LCSD	1					%Rec.		RP
Analyte			Added		Result	Qualif	fier	Unit		D	%Rec	Limits	RPD	Lim
HEM (Oil & Grease)			40.0		33.20			mg/L		_	83	78 - 114	12	1
lethod: 335.4 - Cyanide, Total														
	^								(Clie	nt Samp	ole ID: Me		
Lab Sample ID: MB 680-699463/12-/	A													
Matrix: Water	•											Prep Typ		
		MD												
Matrix: Water Analysis Batch: 700077	МВ	MB Qualifier		RI		ו וחא	Init			Pr	onarod	Prep Tyj Prep Ba	tch: 6	9946
Matrix: Water Analysis Batch: 700077 Analyte	MB Result	Qualifier		RL 0.010		MDL U			D		epared 0/21 12:00	Prep Typ	tch: 6 ed	9946
Matrix: Water Analysis Batch: 700077	МВ	Qualifier				<u>MDL</u> U 0025 n			D		•	Prep Tyj Prep Ba Analyz	tch: 6 ed	9946
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13	MB Result 0.010	Qualifier						Cli	<u>D</u>	12/20)/21 12:00	Prep Tyj Prep Ba <u>Analyz</u> 12/20/21 : Lab Con	tch: 6 ed 20:34 trol S	9946 Dil Fa
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water	MB Result 0.010	Qualifier						Cli	<u>D</u>	12/20)/21 12:00	Prep Tyj Prep Ba Analyz 12/20/21 Lab Con Prep Tyj	tch: 6 ed 20:34 trol S be: To	9946 Dil Fa ampl tal/N
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13	MB Result 0.010	Qualifier			0.	0025 n		Cli	<u>D</u>	12/20)/21 12:00	Prep Tyj Prep Ba <u>Analyz</u> 12/20/21 : Lab Con Prep Tyj Prep Ba	tch: 6 ed 20:34 trol S be: To	9946 Dil Fa ample tal/N/
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077	MB Result 0.010	Qualifier	Spike		0. LCS	0025 m	ng/L		<u>D</u>	12/20 San	nple ID:	Prep Tyj Prep Ba <u>Analyz</u> 12/20/21 : Lab Con Prep Tyj Prep Ba %Rec.	tch: 6 ed 20:34 trol S be: To	9946 Dil Fa ample tal/N/
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077 Analyte	MB Result 0.010	Qualifier	Spike Added		0. LCS Result	LCS Qualif	ng/L	Unit	<u>D</u>	12/20		Prep Tyj Prep Ba <u>Analyz</u> 12/20/21 : Lab Con Prep Tyj Prep Ba %Rec. Limits	tch: 6 ed 20:34 trol S be: To	9946 Dil Fa ample tal/N/
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077	MB Result 0.010	Qualifier	Spike		0. LCS	LCS Qualif	ng/L		<u>D</u>	12/20 San	nple ID:	Prep Tyj Prep Ba <u>Analyz</u> 12/20/21 : Lab Con Prep Tyj Prep Ba %Rec.	tch: 6 ed 20:34 trol S be: To	9946 Dil Fa ample tal/N
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077 Analyte	MB <u>Result</u> 0.010 -A	Qualifier U	Spike Added		0. LCS Result	LCS Qualif	ng/L	Unit	<u>D</u>	12/20 San		Prep Tyj Prep Ba <u>Analyz</u> 12/20/21 : Lab Con Prep Tyj Prep Ba %Rec. Limits	tch: 6 ed 20:34 trol S be: To	9946 Dil Fa ample tal/N
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Iethod: 350.1 - Nitrogen, Amn	MB <u>Result</u> 0.010 -A	Qualifier U	Spike Added		0. LCS Result	LCS Qualif	ng/L	Unit	D ent	12/20 San		Prep Tyl Prep Ba Analyz 12/20/21 : Lab Con Prep Tyl Prep Ba %Rec. Limits 90 - 110	tch: 6 ed 20:34 trol S be: To tch: 6	9946 Dil Fa ample tal/N/ 9946
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total	MB <u>Result</u> 0.010 -A	Qualifier U	Spike Added		0. LCS Result	LCS Qualif	ng/L	Unit	D ent	12/20 San		Prep Tyj Prep Ba Analyz 12/20/21 Lab Con Prep Tyj Prep Ba %Rec. Limits 90 - 110	tch: 6 ed 20:34 trol S be: To tch: 6	9946 Dil Fa ample tal/N/ 9946 Blan
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Iethod: 350.1 - Nitrogen, Amn Lab Sample ID: MB 680-700206/52 Matrix: Water	MB <u>Result</u> 0.010 -A	Qualifier U	Spike Added		0. LCS Result	LCS Qualif	ng/L	Unit	D ent	12/20 San		Prep Tyl Prep Ba Analyz 12/20/21 : Lab Con Prep Tyl Prep Ba %Rec. Limits 90 - 110	tch: 6 ed 20:34 trol S be: To tch: 6	9946 Dil Fa ample tal/N/ 9946 Blan
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Iethod: 350.1 - Nitrogen, Amn Lab Sample ID: MB 680-700206/52	MB Result 0.010 -A	Qualifier U	Spike Added		0. LCS Result	LCS Qualif	ng/L	Unit	D ent	12/20 San		Prep Tyj Prep Ba Analyz 12/20/21 Lab Con Prep Tyj Prep Ba %Rec. Limits 90 - 110	tch: 6 ed 20:34 trol S be: To tch: 6	9946 Dil Fa ample tal/N/ 9946 Blan
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Iethod: 350.1 - Nitrogen, Amn Lab Sample ID: MB 680-700206/52 Matrix: Water	MB	Qualifier U	Spike Added		0. LCS Result 0.0497	LCS Qualif	ng/L	Unit	D ent	12/20 San D Clie		Prep Tyj Prep Ba Analyz 12/20/21 Lab Con Prep Tyj Prep Ba %Rec. Limits 90 - 110	tch: 6 ed 20:34 trol S be: To tch: 6 ethod be: To	9946 Dil Fa ample tal/N/ 9946 Blan tal/N/
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Iethod: 350.1 - Nitrogen, Amn Lab Sample ID: MB 680-700206/52 Matrix: Water Analysis Batch: 700206	MB	Qualifier U MB Qualifier	Spike Added	0.010	0. LCS Result 0.0497	LCS Qualif	ng/L fier	Unit	D ent	12/20 San D Clie		Prep Tyj Prep Ba 12/20/21 Lab Con Prep Tyj Prep Ba %Rec. Limits 90 - 110	ed ed 20:34 trol S be: To tch: 6 ethod be: To ed	9946 Dil Fa ample tal/N/ 9946 Blan
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Iethod: 350.1 - Nitrogen, Amn Lab Sample ID: MB 680-700206/52 Matrix: Water Analysis Batch: 700206 Analyte Ammonia	MB <u>Result</u> 0.010 -A nonia MB <u>Result</u> 0.25	Qualifier U MB Qualifier	Spike Added	0.010	0. LCS Result 0.0497	LCS Qualif	ng/L fier	Unit mg/L	D ent	D Clie		Prep Tyj Prep Ba 12/20/21 Lab Con Prep Tyj Prep Ba %Rec. Limits 90 - 110	tch: 6 ed 20:34 trol S be: To tch: 6 ethod be: To ed 15:56	9946 Dil Fa ampl tal/N/ 9946 Blan tal/N/ Dil Fa
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Iethod: 350.1 - Nitrogen, Amn Lab Sample ID: MB 680-700206/52 Matrix: Water Analysis Batch: 700206 Analyte Ammonia Lab Sample ID: LCS 680-700206/53	MB <u>Result</u> 0.010 -A nonia MB <u>Result</u> 0.25	Qualifier U MB Qualifier	Spike Added	0.010	0. LCS Result 0.0497	LCS Qualif	ng/L fier	Unit mg/L	D ent	D Clie		Prep Tyj Prep Ba Analyz 12/20/21 : Lab Con Prep Tyj Prep Ba %Rec. Limits 90 - 110 Dele ID: Ma Prep Tyj Analyz 12/21/21	tch: 6 ed 20:34 trol S be: To tch: 6 ethod be: To ed 15:56 trol S	9946 Dil Fa amplital/NJ 9946 Blan tal/NJ Dil Fa
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Iethod: 350.1 - Nitrogen, Amn Lab Sample ID: MB 680-700206/52 Matrix: Water Analysis Batch: 700206 Analyte Ammonia Lab Sample ID: LCS 680-700206/53 Matrix: Water	MB <u>Result</u> 0.010 -A nonia MB <u>Result</u> 0.25	Qualifier U MB Qualifier	Spike Added	0.010	0. LCS Result 0.0497	LCS Qualif	ng/L fier	Unit mg/L	D ent	D Clie		Prep Tyj Prep Ba 12/20/21 Lab Con Prep Tyj Prep Ba %Rec. Limits 90 - 110 Die ID: Ma Prep Tyj Prep Tyj 21/21/21	tch: 6 ed 20:34 trol S be: To tch: 6 ethod be: To ed 15:56 trol S	9946 Dil Fa amplital/NJ 9946 Blan tal/NJ Dil Fa
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Iethod: 350.1 - Nitrogen, Amn Lab Sample ID: MB 680-700206/52 Matrix: Water Analysis Batch: 700206 Analyte Ammonia Lab Sample ID: LCS 680-700206/53	MB <u>Result</u> 0.010 -A nonia MB <u>Result</u> 0.25	Qualifier U MB Qualifier	Spike Added	0.010	0. LCS Result 0.0497	LCS Qualif	ng/L fier	Unit mg/L	D ent	D Clie		Prep Tyj Prep Ba Analyz 12/20/21 : Lab Con Prep Tyj Prep Ba %Rec. Limits 90 - 110 Dele ID: Ma Prep Tyj Analyz 12/21/21	tch: 6 ed 20:34 trol S be: To tch: 6 ethod be: To ed 15:56 trol S	9946 Dil Fa ampl tal/N/ 9946 Blan tal/N/ Dil Fa ampl
Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Lab Sample ID: LCS 680-699463/13 Matrix: Water Analysis Batch: 700077 Analyte Cyanide, Total Iethod: 350.1 - Nitrogen, Amn Lab Sample ID: MB 680-700206/52 Matrix: Water Analysis Batch: 700206 Analyte Ammonia Lab Sample ID: LCS 680-700206/53 Matrix: Water	MB <u>Result</u> 0.010 -A nonia MB <u>Result</u> 0.25	Qualifier U MB Qualifier	Spike Added 0.0500	0.010	0. LCS Result 0.0497	LCS Qualif	ng/L fier Jnit ng/L	Unit mg/L	D ent	D Clie Pr San		Prep Tyj Prep Ba Analyz 12/20/21 Lab Con Prep Tyj Prep Ba %Rec. Limits 90 - 110 Die ID: Me Prep Tyj Analyz 12/21/21 Lab Con Prep Tyj	tch: 6 ed 20:34 trol S be: To tch: 6 ethod be: To ed 15:56 trol S	9946 Dil Fa amplital/NJ 9946 Blan tal/NJ Dil Fa

Eurofins TestAmerica, Savannah

Job ID: 680-208976-1

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 680-7003 Matrix: Water Analysis Batch: 700364	500/1-A							le ID: Methoo Prep Type: To Prep Batch:	otal/NA
Analysis Datch. 700304	МВ	МВ						Fiep Datch.	100300
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.050	U	0.050	0.025	mg/L		12/22/21 11:33	12/22/21 14:38	1

Matrix: Water						- C	Prep Type: Total/NA
Analysis Batch: 700364							Prep Batch: 700300
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Phenolics, Total Recoverable	0.100	0.109		mg/L		109	75 - 125



Lab Sample ID: MB 680-699323/1									C	lie	ent Sam	ple ID: Me		
Matrix: Water												Prep Typ	be: To	tal/N/
Analysis Batch: 699323														
		MB												
Analyte		Qualifier		RL		RL			<u>D</u>	Ρ	repared	Analyz		Dil Fa
Total Suspended Solids	2.5	U		2.5		2.5 r	ng/L					12/16/21	17:53	
Lab Sample ID: LCS 680-699323/2								Cli	ent S	Sai	mple ID	: Lab Con	trol S	ample
Matrix: Water											-	Prep Typ	be: To	tal/N/
Analysis Batch: 699323														
			Spike		LCS	LCS						%Rec.		
Analyte			Added	F	Result	Quali	fier	Unit		D	%Rec	Limits		
Total Suspended Solids			951		836			mg/L			88	80 - 120		
Lab Sample ID: LCSD 680-699323/	3						С	lient S	Samp	ole	ID: Lab	Control S	Sampl	e Du
Matrix: Water												Prep Typ	be: To	tal/N/
Analysis Batch: 699323														
			Spike		LCSD	LCSD)					%Rec.		RPI
Analyte			Added	F	Result	Quali	fier	Unit		D	%Rec	Limits	RPD	Limi
Total Suspended Solids			951		826			mg/L		_	87	80 - 120	1	2
Method: SM 4500 H+ B - pH														
- Lab Sample ID: LCS 680-700410/1								Cli	ent S	Sai	mple ID	: Lab Con	trol S	ample
Matrix: Water												Prep Typ		
Analysis Batch: 700410														
-			Spike		LCS	LCS						%Rec.		
Analyte			Added	F	Result	Quali	fier	Unit		D	%Rec	Limits		
рН			7.01		7.1			SU		_	101	63 - 158		
Method: SM 5210B - BOD, 5-D	ay													
Lab Sample ID: USB 480-609373/1										11.	nt Sam	ple ID: Me	athod	Plan
Las Sample ID. USB 400-0093/3/1										, 116	ant Salli		-	

Matrix: Water Analysis Batch: 609373								Prep Type: To	otal/NA
-	USB	USB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			12/17/21 19:45	1

Job ID: 680-208976-1

Method: SM 5210B - BOD, 5-Day (Continued)

Lab Sample ID: LCS 480-609373/2 Matrix: Water Analysis Batch: 609373				Clie	nt Sar	nple ID	: Lab Control Sample Prep Type: Total/NA
	Spike	LCS	LCS				%Rec.
Analyte	Added 198	Result 175	Qualifier	Unit mg/L	<u>D</u>	%Rec 88	Limits

QC Association Summary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Job ID: 680-208976-1

GC/MS VOA

Analysis Batch: 700612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-208976-2	Trip Blank	Total/NA	Water	624	
MB 680-700612/9	Method Blank	Total/NA	Water	624	
LCS 680-700612/4	Lab Control Sample	Total/NA	Water	624	
LCSD 680-700612/5	Lab Control Sample Dup	Total/NA	Water	624	
nalysis Batch: 700					
-	917 Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
Lab Sample ID		Prep Type Total/NA	Matrix Water	Method 624	Prep Batcl
Lab Sample ID 680-208976-1 MB 680-700917/9	Client Sample ID				Prep Batcl
Lab Sample ID 680-208976-1	Client Sample ID POTW_20211215	Total/NA	Water	624	Prep Batc

GC/MS Semi VOA

Prep Batch: 699476

Lab Sample ID 680-208976-1	Client Sample ID POTW 20211215	Prep Type Total/NA	Matrix Water	Method CWA Prep	Prep Batch
MB 680-699476/12-A	Method Blank	Total/NA	Water	CWA_Prep	
LCS 680-699476/13-A	Lab Control Sample	Total/NA	Water	CWA_Prep	
LCSD 680-699476/14-A	Lab Control Sample Dup	Total/NA	Water	CWA_Prep	

Analysis Batch: 700270

Lab Sample ID 680-208976-1	Client Sample ID POTW_20211215	Prep Type Total/NA	Matrix Water	Method 625.1	Prep Batch 699476
MB 680-699476/12-A	Method Blank	Total/NA	Water	625.1	699476
LCS 680-699476/13-A	Lab Control Sample	Total/NA	Water	625.1	699476
LCSD 680-699476/14-A	Lab Control Sample Dup	Total/NA	Water	625.1	699476

Metals

Prep Batch: 699420

MB 680-699444/1-A

Method Blank

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-208976-1	POTW_20211215	Total/NA	Water	245.1	<u> </u>
MB 680-699420/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-699420/3-A	Lab Control Sample	Total/NA	Water	245.1	
Prep Batch: 699444					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-208976-1	POTW_20211215	Total/NA	Water	200.7	
MB 680-699444/1-A	Method Blank	Total/NA	Water	200.7	
LCS 680-699444/2-A	Lab Control Sample	Total/NA	Water	200.7	
Prep Batch: 699445					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-208976-1	POTW_20211215	Total/NA	Water	200.8	
MB 680-699445/1-A	Method Blank	Total/NA	Water	200.8	
LCS 680-699445/2-A	Lab Control Sample	Total/NA	Water	200.8	
Analysis Batch: 700	030				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-208976-1	POTW_20211215	Total/NA	Water	200.7 Rev 4.4	699444

Eurofins TestAmerica, Savannah

200.7 Rev 4.4

Total/NA

Water

699444

QC Association Summary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Job ID: 680-208976-1

Metals (Continued)

Analysis Batch: 700030 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
LCS 680-699444/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	699444
Analysis Batch: 700	099				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-208976-1	POTW_20211215	Total/NA	Water	245.1	699420
MB 680-699420/1-A	Method Blank	Total/NA	Water	245.1	699420
LCS 680-699420/3-A	Lab Control Sample	Total/NA	Water	245.1	699420
Analysis Batch: 7002	205				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-208976-1	POTW_20211215	Total/NA	Water	200.8	699445
MB 680-699445/1-A	Method Blank	Total/NA	Water	200.8	699445
LCS 680-699445/2-A	Lab Control Sample	Total/NA	Water	200.8	699445

General Chemistry

Analysis Batch: 609373

Lab Sample ID 680-208976-1	Client Sample ID POTW_20211215	Prep Type Total/NA	Matrix Water	Method SM 5210B	Prep Batch
USB 480-609373/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-609373/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 699323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-208976-1	POTW_20211215	Total/NA	Water	SM 2540D	
MB 680-699323/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 680-699323/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 680-699323/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Prep Batch: 699463

Lab Sample ID 680-208976-1	Client Sample ID POTW 20211215	Prep Type Total/NA	Matrix Water	Distill/CN	Prep Batch
MB 680-699463/12-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 680-699463/13-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Prep Batch: 699924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-208976-1	POTW_20211215	Total/NA	Water	1664A	
MB 680-699924/1-A	Method Blank	Total/NA	Water	1664A	
LCS 680-699924/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 680-699924/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 700048

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-208976-1	POTW_20211215	Total/NA	Water	1664A	699924
MB 680-699924/1-A	Method Blank	Total/NA	Water	1664A	699924
LCS 680-699924/2-A	Lab Control Sample	Total/NA	Water	1664A	699924
LCSD 680-699924/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	699924

QC Association Summary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Job ID: 680-208976-1

General Chemistry

Analysis Batch: 700077

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
680-208976-1	POTW_20211215	Total/NA	Water	335.4	699463
MB 680-699463/12-A	Method Blank	Total/NA	Water	335.4	699463
LCS 680-699463/13-A	Lab Control Sample	Total/NA	Water	335.4	699463
Analysis Batch: 7002	206				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-208976-1	POTW_20211215	Total/NA	Water	350.1	
MB 680-700206/52	Method Blank	Total/NA	Water	350.1	
LCS 680-700206/53	Lab Control Sample	Total/NA	Water	350.1	
Prep Batch: 700300					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
680-208976-1	POTW_20211215	Total/NA	Water	Distill/Phenol	
MB 680-700300/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 680-700300/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	
Analysis Batch: 7003	364				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
680-208976-1	POTW_20211215	Total/NA	Water	420.1	70030
MB 680-700300/1-A	Method Blank	Total/NA	Water	420.1	70030
LCS 680-700300/2-A	Lab Control Sample	Total/NA	Water	420.1	70030
Analysis Batch: 7004	410				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
680-208976-1	POTW_20211215	Total/NA	Water	SM 4500 H+ B	
LCS 680-700410/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Job ID: 680-208976-1

Matrix: Water

Lab Sample ID: 680-208976-1

Client Sample ID: POTW_20211215 Date Collected: 12/15/21 12:30 Date Received: 12/16/21 11:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	700917	12/28/21 22:01	P1C	TAL SAV
Total/NA	Prep	CWA_Prep			699476	12/17/21 15:36	IR	TAL SAV
Total/NA	Analysis	625.1		1	700270	12/22/21 22:51	OK	TAL SAV
Total/NA	Prep	200.7			699444	12/17/21 11:59	JE	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	700030	12/21/21 03:50	BCB	TAL SAV
Total/NA	Prep	200.8			699445	12/17/21 11:59	JE	TAL SAV
Total/NA	Analysis	200.8		1	700205	12/21/21 18:36	BWR	TAL SAV
Total/NA	Prep	245.1			699420	12/17/21 10:25	JKL	TAL SAV
Total/NA	Analysis	245.1		1	700099	12/17/21 16:42	BCB	TAL SAV
Total/NA	Prep	1664A			699924	12/21/21 06:30	PB	TAL SAV
Total/NA	Analysis	1664A		1	700048	12/21/21 10:23	PB	TAL SAV
Total/NA	Prep	Distill/CN			699463	12/20/21 12:00	AE	TAL SAV
Total/NA	Analysis	335.4		10	700077	12/20/21 23:32	AE	TAL SAV
Total/NA	Analysis	350.1		1	700206	12/21/21 16:43	DR	TAL SAV
Total/NA	Prep	Distill/Phenol			700300	12/22/21 11:33	SM	TAL SAV
Total/NA	Analysis	420.1		1	700364	12/22/21 14:39	SM	TAL SAV
Total/NA	Analysis	SM 2540D		1	699323	12/16/21 17:53	PG	TAL SAV
Total/NA	Analysis	SM 4500 H+ B		1	700410	12/22/21 13:52	DR	TAL SAV
Total/NA	Analysis	SM 5210B		1	609373	12/17/21 19:45	SRW	TAL BUF

Client Sample ID: Trip Blank Date Collected: 12/15/21 00:00 Date Received: 12/16/21 11:00

Lab Sample ID: 680-208976-2 **Matrix: Water**

ſ		Batch	Batch		Dilution	Batch	Prepared		
	Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	624		1	700612	12/24/21 16:52	P1C	TAL SAV

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600 TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Job ID: 680-208976-1

Laboratory: Eurofins TestAmerica, Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date
New York		NELAP	10842	04-01-22
The following analyte	s are included in this	report, but the laboratory is	not certified by the governing authority.	This list may include analytes for which
the agency does not	offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
200.8	200.8	Water	Iron	
624		Water	1,1,1-Trichloroethane	
624		Water	Benzene	
624		Water	Chloroform	
624		Water	Ethylbenzene	
624		Water	Methylene Chloride	
624		Water	Toluene	
624		Water	Xylenes, Total	
625.1	CWA_Prep	Water	2,4,5-Trichlorophenol	
SM 4500 H+ B		Water	рН	
SM 4500 H+ B		Water	Temperature	

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

Method Summary

Client: Ashland LLC Project/Site: Hercules Glens Falls O&M Quarterly

Client: Ashlan Project/Site: H	d LLC lercules Glens Falls O&M Quarterly	JOD	ID: 680-208976
lethod	Method Description	Protocol	Laboratory
24	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL SAV
25.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL SAV
00.7 Rev 4.4	Metals (ICP)	40CFR136A	TAL SAV
00.8	Metals (ICP/MS)	EPA	TAL SAV
45.1	Mercury (CVAA)	EPA	TAL SAV
664A	HEM and SGT-HEM	1664A	TAL SAV
35.4	Cyanide, Total	MCAWW	TAL SAV
50.1	Nitrogen, Ammonia	MCAWW	TAL SAV
20.1	Phenolics, Total Recoverable	MCAWW	TAL SAV
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL SAV
SM 4500 H+ B	рН	SM	TAL SAV
SM 5210B	BOD, 5-Day	SM	TAL BUF
664A	HEM and SGT-HEM (Aqueous)	1664A	TAL SAV
200.7	Preparation, Total Metals	EPA	TAL SAV
.00.8	Preparation, Total Metals	EPA	TAL SAV
45.1	Preparation, Mercury	EPA	TAL SAV
WA_Prep	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	TAL SAV
Distill/CN	Distillation, Cyanide	None	TAL SAV
Distill/Phenol	Distillation, Phenolics	None	TAL SAV

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

👶 eurofins	I: COC No: 680-131209-48498 1	Page Page 1 of 1	# qop	Preservation Codes:	A - HCL M - Hexane B - NaCH N - None 7 - 200000000000000000000000000000000000		F - MeOH R - NA2200 G - Amchlor	H - Ascorbic Acid I - Ice J - DI Water	K - EDA	Other:	stal Number o	Pd Special Devictions/Note:			, /			ľ	N ***	Γ/	A	iger than 1 m	Archive For Months	lent	15/21 1515 Company)	16/21/0130		+
	Carrier Tracking No(s)	State of Origin:	sis Requested					sp	iloS be	spende Total , Total	1005 - Biochén 15,4 - Cyanide, 15,4 - Cyanide, 1010 - Phenolics 100 - HH - Phenolics	2 43 20 33 22 56	V V V	5			ustody					may be assessed if sample	equirements:	Method of Shipment	L Date/			
lecord	Lab PM: Fuller, David	E-Mail. David.Fuller@Eurofinset.com	Analvsis					(əs	35 Or 1 A, 245	0C 8 (Oil 8 9 (Oil 8 9 (Vil 8	1011 Filtered 3 102 Nize Mize Mize Mize Mize Mize Mize Mize M		XX					680-208976 Unam		•		Sample Disposal (A fee	Special Instructions/QC Requirements:	Time:		Received by:	Cooler Temperature(s) °C and Other Remarks	
ain of Custody Record		2	PWSID.		1	Yes A No					Sample Type (C=comp,	17	30 & Water	,			y	K			<u> </u>	Radiological				1700 Company		
СҺ	Sampler JEAN Stanje	Phone: 612-772-114		Due Date Requested:	TAT Requested (days):	Compliance Project: A	PO#1286	wo <i>#</i> : Task 200, 300, 400	Project # 68000956	SSOW#	Sample Date Time	4	12/15/21 123				4					Poison B MUnknown		Date:		12/15/21 Date/Time:		
Eurofins TestAmerica, Savannah AIOAN 5102 LaRoche Avenue Savannah. GA 31404 Phone: 912-354-7858 Fax: 912-352-0165	Client Information	Client Contact Katte Angel	Company: Antea USA Inc.	Address. 5788 Wide Water Parkway 2nd Floor - ANTEA		State, Zip NY, 13214	Phone 614-790-6146(Tel)	Emait katie angel@anteagroup us	Project Name Ashland ପାରୁ Falls Annual POTW	Site:	Sample Identification		POTU-20211215	Triz Blank								ant	I, III, IV, Other (specify)	Empty hit Relinquished by: Relinquished hir	Tom Staryel / Anter Grang	Reinquished by Coelic	Custody Seals Intact: Custody Seal No.:	

9

10

11

Client: Ashland LLC

Login Number: 208976 List Number: 1 Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 680-208976-1

List Source: Eurofins TestAmerica, Savannah

Brian Jankauskas, P.E. 2021 Operations and Maintenance Report – Former Ciba-Geigy Facility March 1, 2022



Enclosure 3 POTW Effluent Extended Parameters

Attachment 3 POTW Effluent Extended Parameters – 4th Quarter 2021 Glens Falls, New York December 15, 2021

	Effluent Limi	tations	Effluent Co	oncentrations
	Instantaneous Maximum	Quarterly Average		
Parameter	mg/L	mg/L	Conc.	Units
Antimony	10	-	0.0041 J	mg/L
Ammonia	40	-	<0.25	mg/L
Arsenic	0.25	-	<0.003	mg/L
Benzene	0.1	-	<0.001	mg/L
Boron	5	-	0.19	mg/L
Cadmium	0.25	-	0.0016	mg/L
Calcium	500	-	68.0	mg/L
Chloroform	1	-	<0.001	mg/L
Chromium, total	See below*	3.1 lb/day	0.48	mg/L
Copper	1	-	0.0027 J	mg/L
Cyanide, total	3	-	0.57	mg/L
Ethylbenzene	0.1	-	<0.001	mg/L
Iron	50	-	0.27	mg/L
Lead	0.8	-	<0.0025	mg/L
Manganese	5	-	0.0039 J	mg/L
Mercury	0.025	0.005	<0.0002	mg/L
Methylene Chloride	1	-	<0.005	mg/L
Napthalene	1	-	<0.0047	mg/L
Nickel	2.3	-	<0.005	mg/L
Oil & Grease	50	-	<5.1	mg/L
pH (Standard Units)	6.0 - 9.0	-	8.1	SU
Phenols	5	-	<0.05	mg/L
Silver	0.2	-	<0.001	mg/L
Toluene	0.1	-	<0.001	mg/L
1,1,1 - Trichloroethane	1	-	<0.001	mg/L
Xylene	0.1	-	<0.002	mg/L
Zinc	1.5	-	0.013 J	mg/L
Flow (gallons per day)	350,000	175,000	61,000	gpd

*Discharge for total chromium is 3.1 lb/day and will be based on the average of chromium sampling data and the quarterly average flow.

- : No standard value

J: Lab estimated value (Between the method detection limit and the reporting limit)

<3.0 : The analyte was not detected and the value is below the laboratory reporting limit

Bold: Analyte exceeded the permitted effulent limitations

Brian Jankauskas, P.E. 2021 Operations and Maintenance Report – Former Ciba-Geigy Facility March 1, 2022



Enclosure 4 EW-B5 Weekly Totalizer Summary

Attachment 4 – EW-B5 Weekly Totalizer Summary 2021 Operations Maintenance Report Former Ciba-Geigy Facility, Glens Falls, NY

	Days Since	T	Since Previous	Reading	• • • • • • • • • • • • • • • • • • • •
Date	Previous Reading	Totalizer Reading (gal)	Gallons Pumped	Average gal/day	Average gal/day over Period
1/14/2021		66,327			
1/21/2021	7	69,232	2,906	415	
1/29/2021	8	72,302	3,069	384	
2/3/2021		252			
2/10/2021	7	2,546	2,294	328	
2/15/2021	5	3,229	683	137	266
2/22/2021	7	4,722	1,493	213	
3/2/2021	8	6,035	1,313	164	
3/10/2021	8	6,086	51	6	
3/18/2021	8	8,955	2,869	359	
3/25/2021	7	11,647	2,692	385	
4/1/2021	7	14,503	2,856	408	
4/5/2021	4	16,159	1,656	414	
4/12/2021	7	18,867	2,708	387	
4/20/2021	8	22,006	3,139	392	
4/29/2021	9	25,438	3,432	381	
5/4/2021	5	27,001	1,563	313	
5/13/2021	9	30,215	3,214	357	222
5/17/2021	4	31,638	1,423	356	332
5/27/2021	10	35,075	3,437	344	
6/1/2021					
6/7/2021	11	36,576	1,501	136	
6/16/2021	20	39,400	2,824	141	
6/21/2021		113,564			
6/30/2021	9	116,715	3,151	350	
7/8/2021	8	119,520	2,805	351	
7/14/2021	6	121,647	2,126	354	
7/22/2021					
7/29/2021					
8/3/2021					
8/9/2021					
8/16/2021					362
8/26/2021	43	139,181	17,534	408	
8/30/2021	4	140,834	1,653	413	
9/9/2021	10	144,731	3,897	390	
9/13/2021	4	146,195	1,465	366	
9/20/2021	7	148,338	2,143	306	
9/27/2021	7	150,487	2,149	307	
10/8/2021	11	152,397	1,910	174	
10/12/2021	4	154,000	1,603	401	
10/18/2021	6	154,275	275	46	
10/25/2021	7	154,531	256	37	
11/2/2021	8	157,941	3,410	426	
11/12/2021	10	162,307	4,366	437	
11/16/2021	4	164,042	1,735	434	333
11/23/2021	7	167,095	3,053	436	
11/29/2021					
12/10/2021	17	173,904	6,809	401	
12/14/2021	4	175,496	1,592	398	
12/20/2021	6	178,006	2,510	418	
12/28/2021	8	181,155	3,149	394	
			Annual Average	323	

Note:

(1) Time period shaded in gray represents period where totalizer readings were inaccurate or not available.

Totalizer readings that were outside of norm, were not included in the estimate of average extraction rates for this period. gal = gallons

--- = not applicable



Brian Jankauskas, P.E. 2021 Operations and Maintenance Report – Former Ciba-Geigy Facility March 1, 2022



Enclosure 5 Site Inspection Reports

nitial Issue Date:	11/3/2016		0
Revision Date:	2/14/2018		0
		FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG	
Client:	Ashland, Inc.		
Site Location:	89 Lower Warren Street, Queensbury, NY		
		ROUTINE MONTHLY ACTIVITIES	anteagroup
Month/year	January 2021		anceagroup
Date of visit:	1/14/21		
O&M Tech(s):	Liam Nangle !	haveet browe	

5

Item No.	Action	Remarks & Observations	Date	Initials
		Discharge Monitoring		
1	Record totalizer flow readings in EPS		1/14	YN
2	Download telemetry files in EPS		1/14	in
3	Record pH and flow readings at POTW		1/14/	ZN
		Site Security		
1	Gates secured & locked	site security	1/111	Ser
2	Access roads		1/14	XN
3	Site utilities operational		1/1/1	ZAV
4	Inspect fire extinguishers and sign tag		1/14	Sul
5	Inspect all fence lines for holes or breaks	Vinus overgrowing most fense areas, brownin resting just plug		XN
6	Inspect all buildings for security	Ist gate to your	VIL	SN
		Site Monitoring	- v - 1	1000
1	Inspect landfill cap	Site Monitoring	1/14	Th
2	Vegitative cover		VIL	Ser
3	Cement company pond	Frozenover	VIL	W
4	Inspect rip-rap		1/14	Sw
5	Inspect ditches/swales and catch basins		VIH	Ser
6	Inspect Hudson River bank		VIL	SN
7	Download transducer data		1/14	Sw

COMMENTS

Page 1 of 1



Initial Issue Date:	11/3/2016

Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

February 2021

Nangle

2/22/21

Liam

ROUTINE MONTHLY ACTIVITIES

Month/year Date of visit: O&M Tech(s):

Item No.	Action	Remarks & Observations	Date	Init
		Discharge Monitoring		
1	Record totalizer flow readings in EPS	(an weekly sheet)	2/22	6
2	Download telemetry files in EPS		2/22	71
3	Record pH and flow readings at POTW	No flow PH meter = 240 at time thist	2/22	1
3	Record pri and now readings at Fortw			
		Site Security	2/22	12
1	Gates secured & locked		2/22	21
2	Access roads		2/22	ZA
3	Site utilities operational		2/22	_
4	Inspect fire extinguishers and sign tag			20
5	Inspect all fence lines for holes or breaks	Tree branch on upper fence near 1st pate	2/22	21
6	Inspect all buildings for security		2122	20
		Site Monitoring		
1	Inspect landfill cap		2/22	2
2	Vegitative cover		2/22	2
3	Cement company pond	Frozen over	2/22	Xu
4	Inspect rip-rap		2/22	20
5	Inspect ditches/swales and catch basins		2/22	Sal
6	Inspect Hudson River bank	Frozen near gauge	2/22	8
7	Download transducer data		2/22	X

Page 1 of 1

Initial Issue Date:	11/3/2016
Revision Date:	2/14/2018

Client: Site Location:

89 Lower Warren Street, Queensbury, NY

Ashland, Inc.

ROUTINE MONTHLY ACTIVITIES



Month/year <u>March 2021</u> Date of visit: <u>3/2/21</u> O&M Tech(s): Liano hange

item No.	Action	Remarks & Observations	Date	Initials
	Discharge	Monitoring		
1	Record totalizer flow readings in EPS		3/2	Th
2	Download telemetry files in EPS		3/2	The
3	Record pH and flow readings at POTW N/A		3/2	<u>Ú</u>
	Site S	Security		}
1	Gates secured & locked		3/2	IN.
2	Access roads		3/2	2N
з	Site utilities operational		3/2	LM_
4	Inspect fire extinguishers and sign tag		3/2	2.
5	Inspect all fence lines for holes or breaks		3/2	7.1/
6	Inspect all buildings for security		3/2	IN/
	Site M	onitoring	1	
1	Inspect landfill cap		3/2	21
2	Vegitative cover		3/2	IN
3	Cement company pond		3/2	CA/
4	Inspect rip-rap		3/2	ZN
5	Inspect ditches/swales and catch basins		312	JM
6	Inspect Hudson River bank		<u>3/1</u> 3/2	JA/

COMMENTS

Page 1 of 1

Initial Issue Date: 11/3/2016 Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client: Site Location: Ashland, Inc. 89 Lower Warren Street, Queensbury, NY

4/2021

4/20/21

JEStongel, L. NAngle

ROUTINE MONTHLY ACTIVITIES

anteagroup

Month/year Date of visit: O&M Tech(s):

Item No.	Action	Remarks & Observations	Date	Initials
	Disch	arge Monitoring		
1	Record totalizer flow readings in EPS		4/20/21	TS
2	Download telemetry files in EPS		4/20/21	カ
3	Record pH and flow readings at POTW	scortle callectul later on	4/20/21	25
	S	ite Security		
1	Gates secured & locked	Gaul	4/20/21	to
2	Access roads	Gad	4/22/21	IS
3	Site utilities operational	Sump A net operational - TEnikr regalo	4/20/21	J
4	Inspect fire extinguishers and sign tag	Good	4/20/21	25
5	Inspect all fence lines for holes or breaks	Goel	4/20/21	02
6	Inspect all buildings for security	Good	4/20/21	20
		Monitoring		
1	Inspect landfill cap	Gaul	4720/21	50
2	Vegitative cover	Good	4/20/21	B
3	Cement company pond	Good - High	4/24/21	T
4	Inspect rip-rap	Gapd	4/20/21	B
5	Inspect ditches/swales and catch basins	minur diferes /swalks along road	9/20/21	ち
	Inspect Hudson River bank	Gal	4/20/21	02
	Download transducer data		4/20/21	JS

Initial Issue Date: 11/3/2016 Revision Date: 2/14/2018

Ashland, inc.

<u>5/3</u> rrett

rowe

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG



1

Client:

Site Location:

89 Lower Warren Street, Queensbury, NY
,
ROUTINE MONTHLY ACTIVITIES

Month/year Date of visit: O&M Tech(s):

12				
		Discharge Monitoring		
2	Record totalizer flow readings in EPS		5/3/2-1	60
	Download telemetry files in EPS		5/3/21	60
3	Record pH and flow readings at POTW	N/A 7 Sample collected Lastweek	5/3/21	60
		Site Security		
1	Gates secured & locked	food	5/3/21	6
2	Access roads	1-ax!	5/3/21	1.0
3	Site utilities operational	6.00	5/3/21	6.
4	Inspect fire extinguishers and sign tag	Lood	5/3/2	1.0
5	Inspect all fence lines for holes or breaks	1:00d	5/3/21	60
6	Inspect all buildings for security	(.200	5/3/21	66
		Site Monitoring		
1	Inspect landfill cap	and	5/5/21	60
2	Vegitative cover	Good	5/5/21	66
3	Cement company pond	Good 7 still high	5/3/21	62
4	Inspect rip-rap	6000	5/5/2	<u>6</u> C
5	Inspect ditches/swales and catch basins	6000	5/3/21	6(
6	Inspect Hudson River bank	6000	5/33/21	66

11/3/2016 2/14/2018 Ashland, Inc.	FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG	8
89 Lower Warren Street, Queensbury, NY		
- 1	ROUTINE MONTHLY ACTIVITIES	antoadroun
6/2021		anteagroup
6/1/21		5 1
J. Stangel		
	2/14/2018 Ashland, Inc. 89 Lower Warren Street, Queensbury, NY (G/202) G/1/21	2/14/2018 FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG Ashland, Inc. 89 Lower Warren Street, Queensbury, NY C/2021 G/1/21

A A

and the second s

Item No.	Action	Remarks & Observations	Date	Initials
	Discharg	e Monitoring		
1	Record totalizer flow readings in EPS		C/1/21	J
2	Download telemetry files in EPS		6/1/21	UU
3	Record pH and flow readings at POTW		611/21	
	Site	Security	1	
1	Gates secured & locked	Good	6/1/21	27
2	Access roads	Cost	6/1/21	JS
3	Site utilities operational	Goud	6/1/21	TS
4	Inspect fire extinguishers and sign tag	Gard	6/1/21	5
5	Inspect all fence lines for holes or breaks	Coul	6/1121	T
6	Inspect all buildings for security	6000	6/1/21	D
	Site M	Ionitoring		
1	Inspect landfill cap	Poul	6/1/21	JJ
2	Vegitative cover	Very Tall - call For removal	6/1/21	JOS
3	Cement company pond	Low - Below Fince base	6/1/21	JUS
4	Inspect rip-rap	Part	6/1/21	Ts
5	Inspect ditches/swales and catch basins	oken - minor dikhes / swalce along road	6/1/21	TS
6	Inspect Hudson River bank	Good	6/1/21	T
7	Download transducer data		6/1/2:	JJS

COMMENTS

1

Initial Issue Date: Revision Date: Client:	11/3/2016 2/14/2018 Ashland, Inc.	FORMER HERCULES/CIB	A-GEIGY O&M COMPLETION LOG	8	>
Month/year Dime of visit: CRM Tech(s):	By Lower Warren Street, Queensbury, NY July 2021 7/8/21 Ross Towapelli	ROUTINE	onthly activities	agro	oup
Item No.	Action		Remarks & Observations	Date	Initials
	· ·	Dischar	ge Monitoring		
1	Record totalizer flow readings in EPS	Dischar	Sc Inductions	7/8/21	RT.
2	Download telemetry files in EPS		Arbeit and a second sec	1/8/21	RT
3	Record pH and flow readings at POTW			7/8/21	RT
		Sit	e Security	, 4	
1	Gates secured & locked			7/8/2	RT
2	Access roads			7/8/21	RT
3	Site utilities operational			7/8/21	RT
4	Inspect fire extinguishers and sign tag			7/9/2-	R!
5	Inspect all fence lines for holes or breaks			1/8/21	BI.
6	Inspect all buildings for security			17/8/2	LKT
		Site	Monitoring	Taula	
1	Inspect landfill cap			1/8/21	B/
2	Vegitative cover			7/8/21	RT
3	Cement company pond		Good , condition, water at chainlink fond	7/8/21	R -
4	Inspect rip-rap		God	1/8/01/	R/
5	inspect ditches/swales and catch basins		Beavers, vegetation high, holes	7/8/21	24
6	Inspect Hudson River bank		Beavers, regetation high, holes	Hala	0+
7	Download transducer data			110/01	KI_
a , 511	attly overgrown or	fences to	round fences. (vegetative cov	er)	

Page 2 of 3

Initial Issue Date: 11/3/2016 Revision Date: 2/14/2018

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG



89 Lower Warren Street, Queensbury, NY

8/2021

813

Stange

Client: Site Location:

ROUTINE MONTHLY ACTIVITIES

anteagroup

Month/year Date of visit: O&M Tech(s):

			Date	Initials
Item No.	Action	Remarks & Observations		
	Disch	arge Monitoring	8/3/21	JS
1	Record totalizer flow readings in EPS		8/3/21	JS
2	Download telemetry files in EPS		8/3/21	TS
3	Record pH and flow readings at POTW		013121	
	S	ite Security	Ublat	T
1	Gates secured & locked	Good	8/3/21	J
2	Access roads	6000	8/3/21 8/3/21	JS
3	Site utilities operational	600 J	01316	J5
4	Inspect fire extinguishers and sign tag	6000	8/3/61	B -
5	Inspect all fence lines for holes or breaks	Good	8/3/21	55
6	Inspect all buildings for security	6000	8/3/21	55
	Site	Monitoring		
1	Inspect landfill cap	Good	8/3/21	02
2	Vegitative cover	Food	8/3/21	22
3	Cement company pond	Good High	8/3/21	D
4	Inspect rip-rap	Carl	8/3/21	JS
5	Inspect ditches/swales and catch basins	Blytons - niner swald ditches along road	8/3/21	27
6	Inspect Hudson River bank	Good	XB/21	33
7	Download transducer data		8/3/21	D

Initial Issue Date:	11/3/2016		0
Revision Date:	2/14/2018		0
		FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG	
Client:	Ashland, Inc.		
Site Location:	89 Lower Warren Street, Queensbury, NY		
	CIL Desi	ROUTINE MONTHLY ACTIVITIES	antea group
Month/year	September 2021		anceayioup
Date of visit:	9/9/21		0
O&M Tech(s):	- RT		

Item No.	Action	Remarks & Observations	Date	Initials
		Discharge Monitoring		
1	Record totalizer flow readings in EPS		9/9/21	RT
2	Download telemetry files in EPS		9/9/21	RT
3	Record pH and flow readings at POTW	Not done	9/9/21	RT
		Site Security		
1	Gates secured & locked		9/9/21	IRT
2	Access roads		9/9/21	RT
3	Site utilities operational		9/9/21	RT
4	Inspect fire extinguishers and sign tag		9/9/21	RT
5	Inspect all fence lines for holes or breaks		9/9/21	RT
6	Inspect all buildings for security		9/9/21	RT
		Site Monitoring	, , , , , , , , , , , , , , , , , , , ,	
1	Inspect landfill cap		9/9/2/	RT
2	Vegitative cover		9/9/21	RT
3	Cement company pond	Very high water partially flooded	9/9/21	RT
4	Inspect rip-rap		9/9/21	RT
5	Inspect ditches/swales and catch basins		9/9/21	RT
6	Inspect Hudson River bank		9/9/21	RT
7	Download transducer data	Not done	9/9/2)	RT
		COMMENTS	. 11	
Perv	high water, ground lard	selv saturated, long grass on 1	21//	

11/3/2016 Initial Issue Date: 2/14/2018 **Revision Date:**

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG



Ashland, inc. 89 Lower Warren Street, Queensbury, NY

₩2

Site Location:

ROUTINE MONTHLY ACTIVITIES

Month/year Date of visit: O&M Tech(s):

Client

tem No.	Action	Remarks & Observations	Date	initia
		Discharge Monitoring	10/8	177
1	Record totalizer flow readings in EPS		A state of the second se	-4
2	Download telemetry files in EPS		10/8	
3	Record pH and flow readings at POTW	W/A -> Samples collected hatering	timeter 10/8	160
		Site Security		<u> </u>
1	Gates secured & locked	booch	10/8	66
2	Access roads	6000	10/4	<u>6</u>
3	Site utilities operational	6000	10/8	64
4	inspect fire extinguishers and sign tag	6000	10/8	66
5	Inspect all fence lines for holes or breaks	6000	10/8	60
6	Inspect all buildings for security	Good		66
		Site Monitoring		
1	Inspect landfill cap	(and	10/8	-60
2	Vegitative cover	6000	10/8	6
3	Cement company pond	Ponel High	10/8	66
4	Inspect rip-rap	6000	119/8	-66
5	Inspect ditches/swales and catch basins	6000	10/8	1.0
5	Inspect Hudson River bank	600	10/8	60

COMMENTS

(2	2	7
ante	ag	rou	ıp

Initial Issue Date:	11/3/2016
Revision Date:	2/14/2018

Ashland, Inc.

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG

Client:

Site Location:

Month/year Date of visit: O&M Tech(s):

11/2021 11/12/2 J.Stanjel

89 Lower Warren Street, Queensbury, NY

		Remarks & Observations	Date	Initials
Item No.	Action	Remarks of State		
	Discha	arge Monitoring	11/12/21	JS
1	Record totalizer flow readings in EPS		17/12/21	B
2	Download telemetry files in EPS		11/12/21	a
3	Record pH and flow readings at POTW			
	S	ite Security	11/12/21	TS
1	Gates secured & locked	Good	1/12/21	R
2	Access roads	Good	11/17/71	T
3	Site utilities operational	Good	11/17/21	T
4	Inspect fire extinguishers and sign tag	6000	11/17/21	T
5	Inspect all fence lines for holes or breaks	6000	11/17/71	TS
6	Inspect all buildings for security	Gcord	Innera	100
		e Monitoring	1 / .= /= /	03
1	Inspect landfill cap	very small subale - GOUJ	11/12/21	(Tr
2	Vegitative cover	Good	1/12/21	197
3	Cement company pond	Low -Below Fence base	11/12/21	2
4	Inspect rip-rap	Good	11/10/21	as the
5	Inspect ditches/swales and catch basins	Miger ditches at swales along read - 6 vod	15/2/11	55
6	Inspect Hudson River bank	Grand - miner erosion (dainase, groundhoss, enter	11/12/21	2
7	Download transducer data		11/12/21	53

ROUTINE MONTHLY ACTIVITIES

M

Initial Issue Date: 11/3/2016 **Revision Date:** 2/14/2018

Ashland, Inc.

12 114/2 Stanz

89 Lower Warren Street, Queensbury, NY

12921

FORMER HERCULES/CIBA-GEIGY O&M COMPLETION LOG



Client:

Site Location:

ROUTINE MONTHLY ACTIVITIES

Month/year Date of visit: O&M Tech(s):

	Action	Remarks & Observations	Date	Initials
Item No.	Action			
	Discha	rge Monitoring	12/12/11	TJ
1	Record totalizer flow readings in EPS		14141-1	
2	Download telemetry files in EPS		12/19/01	T
3	Record pH and flow readings at POTW		12/14/21	05
	Si	te Security		
1	Gates secured & locked	Good	12/14/21	P
2	Access roads	Fail	12/14/21	2D
3	Site utilities operational	Good	12/14/21	JS
4	Inspect fire extinguishers and sign tag	Good	12/14/21	F
5	Inspect all fence lines for holes or breaks	Good	12/14/21	JS
6	Inspect all buildings for security	Good	12/14/21	35
		Monitoring		
		Smell swale in center of RCRA - Good	12/14/21	22
1	Inspect landfill cap	Good Genore of North A - Unich	12/14/21	JJ
2	Vegitative cover		12/11/21	
3	Cement company pond	Good - High	10/19/21	55
4	Inspect rip-rap	6002	12/14/21	22
5	Inspect ditches/swales and catch basins	Minor suales / disteries gluns read	14/14/21	B
6	Inspect Hudson River bank	Miror erosion-drainage, groundhog, earth veg) Good	1 12/14/1	TS
7	Download transducer data		12/14/21	05

anteagroup

Client: Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

NOWE

27

Routine Quarterly Activities

Quarter/year: Date of visit:

ohn

O&M Tech(s):

Item No.	Action	Date	Initials
· · · · ·	Discharge Monitoring		
1	Collect quarterly discharge samples from POTW	2/22	6
2	Submit samples to laboratory for analysis	2/22	66
	Site Security		
1	Inspect access roads for damage	2/22	6C
2	Inspect entire fence line and repair if necessary	2/22	60
3	Inspect all locks and gates in upper and lower area	2/22	GC
4	Inspect all locks and gates across street	2/22	60
5	Inspect old remediation building and fence line	2/22	60
6	Inspect offsite wells and for proper security	3/22	60
	Groundwater Extraction System		
1	Electrical connection inspection in EPS and generator station	2/22	61
2	Inspect discharge piping in EPS	2/22	60
3	Inspect vegetation for uncovered electrical lines	2/22	60
4	Inspect all vaults for leaks or standing water	2/2	60
5	Quarterly PSD Inspections (Separate Form)	2/22	60
	Site Monitoring		
1	Inspect outfall structures along Hudson River	2/7-2	GC
2	Inspect all roadways	3/22	60
3	Inspect all ditches/swales, catch basins and rip-rap	2/22	60

Client:

Ashland, Inc. Site Location: 89 Lower Warren Street, Queensbury, NY

L. Nanjk



2021

Routine Quarterly Activities

Quarter/year: y/mg/21 Date of visit:

O&M Tech(s): Tstingel

	Action	Date	Initials
Item No.	Discharge Monitoring		
		4/29/21	35
1	Collect quarterly discharge samples from POTW	4/29/21	J
2	Submit samples to laboratory for analysis Site Security		
		4/29/21	TS
1	Inspect access roads for damage	4/29/21	T3
2	Inspect entire fence line and repair if necessary	4/29/21	33
3	Inspect all locks and gates in upper and lower area	11 1	B
4	Inspect all locks and gates across street	4/29/21	2
5	Inspect old remediation building and fence line	4/29/21	03
6	Inspect offsite wells and for proper security	4/29/21	1.3
0	Groundwater Extraction System		
	Dis brooks	4/29/21	03
1	Electrical connection inspection in EPS and generator station	1/01/01	
Aster 1		4/29/21	75
2	Inspect discharge piping in EPS	4/29/28	T
3	Inspect vegetation for uncovered electrical lines	4/20/21	05
4	Inspect all vaults for leaks or standing water		20
5	Quarterly PSD Inspections (Separate Form)	4/29/21	100
	Site Monitoring	1112 - 1	177
1	Inspect outfall structures along Hudson River	4/09/21	B
-	Inspect all roadways	4/201/21	22
2	Inspect all ditches/swales, catch basins and rip-rap	4/29/21	50
3	Inspect all ditches/swales, catch busins and the tup		

Client: Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

Routine Quarterly Activities



Quarter/year: 3 🕤	2021	
Date of visit: July	29,2021	
O&M Tech(s):	,	

	Action	Date	Initials
Item No.	Discharge Monitoring		
	Collect quarterly discharge samples from POTW	7/29/21	RT
1	Submit samples to laboratory for analysis	Theh	RY
2	Site Security	1215	
		7/30/21	Rt
1	Inspect access roads for damage	1/21/21	ot
2	Inspect entire fence line and repair if necessary	1/29/21	A
3	Inspect all locks and gates in upper and lower area	7/29/2	RI
4	Inspect all locks and gates across street	1/29/21	KT
5	Inspect old remediation building and fence line	7/29/21	KT
6	Inspect offsite wells and for proper security	7/29/21	RT
	Groundwater Extraction System	/ /	
		- 4 - 4 - 4	DT
1	Electrical connection inspection in EPS and generator station	1/29/2	R/
2	Inspect discharge piping in EPS	1/29/21	RI
3	Inspect vegetation for uncovered electrical lines	7/29/21	RI
4	Inspect all vaults for leaks or standing water	7/29/21	Rſ
5	Quarterly PSD Inspections (Separate Form)	1/29/21	R
	Site Monitoring		
1	Inspect outfall structures along Hudson River	7/29/2	RI
2	Inspect all roadways	7/29/2	RT
3	Inspect all ditches/swales, catch basins and rip-rap	7/29/21	RT

FORMER HERCULE	/CIBA-GEIGY O&M	COMPLETION LOG
----------------	-----------------	----------------

.....

anteagroup

Client:

Ashland, Inc.

Site Location: 89 Lower Warren Street, Queensbury, NY

14/2

YORI

Routine Quarterly Activities

Quarter/year:

Date of visit:

O&M Tech(s):

Item No.	Action	Date	Initials
	Discharge Monitoring		
1	Collect quarterly discharge samples from POTW	12/14/21	15
2	Submit samples to laboratory for analysis	12/14/21	TI
	Site Security		3
1	Inspect access roads for damage	12/14/21	J
2	Inspect entire fence line and repair if necessary	12/14/21	15
3	Inspect all locks and gates in upper and lower area	12/14/21	IJ
4	Inspect all locks and gates across street	12/14/21	R
5	Inspect old remediation building and fence line	12/14/21	B
6	Inspect offsite wells and for proper security	12/14/21	T
111	Groundwater Extraction System		
1	Electrical connection inspection in EPS and generator station	12/14/21	乃
2	Inspect discharge piping in EPS	12/14/21	B
3	Inspect vegetation for uncovered electrical lines	12/14/21	20
	Inspect all vaults for leaks or standing water	12/14/21	12
	Quarterly PSD Inspections (Separate Form)	12/14/21	20
	Site Monitoring	, .	
1	Inspect outfall structures along Hudson River	12/14/21	22
	Inspect all roadways	12/14/21	5
	Inspect all ditches/swales, catch basins and rip-rap	12/14/21	70