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October 16, 2023

Andrew Kleinberg U.S. Environmental Protection Agency Region 5 Land, Chemicals & Redevelopment Division 77 West Jackson Blvd, LR-16J Chicago, IL 60604-3590

Subject: Quarterly Progress Report (July through September 2023)

Administrative Order on Consent (February 26, 2009)

Tyco Fire Products LP, Stanton Street Facility, Marinette, Wisconsin

WID 006 125 215

Dear Mr. Kleinberg:

In accordance with Section VI, 21, b (page 10) of the Administrative Order on Consent (AOC), dated February 26, 2009, <sup>1</sup> Tyco Fire Products LP (Tyco) has prepared this quarterly progress report for the U.S. Environmental Protection Agency (EPA) Region 5 and Wisconsin Department of Natural Resources (WDNR) (collectively referred to herein as the Agencies). Progress reports are required to document activities conducted as part of the Resource Conservation and Recovery Act (RCRA) corrective actions at the Tyco property on Stanton Street in Marinette, Wisconsin (Figure 1). This report covers the period from July 1 through September 30, 2023, and presents a brief description of the work performed, data collected, problems encountered, and schedule of activities as required by the February 2009 AOC and subsequent agreements.

## **Work Completed during This Reporting Period**

#### **Groundwater Collection and Treatment**

Attachment 1 summarizes the operational data for the groundwater collection and treatment system (GWCTS) during third quarter 2023 and includes Table 1-1, which lists the estimated volumes of water extracted, treated, stored, discharged, and disposed of offsite. Attachment 2 contains the monthly Discharge Monitoring Reports for Wisconsin Pollutant Discharge Elimination System (WPDES) general permit WI-0001040-08-01 for Outfall OF004 (Figure 2) and sampling point SP108 (GWCTS effluent) and the Whole Effluent Toxicity (WET) Test Report Form for Outfall OF004.

As noted in the last quarterly report, the GWCTS upgrades were substantially completed in June 2023, and clean water testing of the system was conducted from the beginning of June 2023 until the end of the month. On June 29, 2023, approximately 5,100 gallons of groundwater was fully treated through the

<sup>&</sup>lt;sup>1</sup> U.S. Environmental Protection Agency. 2009. *Resource Conservation and Recovery Act Administrative Order on Consent, Ansul, Incorporated*. EPA Docket No. RCRA-05-2009-0007542-S-02-001. February 26.

improved treatment system and was sampled and sent to a frac tank pending the analytical results from the laboratory to allow for discharge. The upgraded GWCTS treats groundwater extracted from the Main Plant (EW-4, EW-5, EW-6, and EW-7) and Wetlands Area (EW-1) to prevent surface flooding of the facility (Figures 1 and 2). The GWCTS also now treats groundwater recovered from the pump down program (PDP) operations, which include the former Salt Vault (HW-1 and HW-2) and former 8th Street Slip (EW-8 and EW-9) areas (Figures 1 and 2).

The results from the June 29, 2023, treated groundwater indicate that the GWCTS effluent complies with both the permitted SP108 GWCTS effluent limits and Outfall OF004 discharge requirements, and a courtesy discharge notification email with the laboratory data attached was sent to WDNR on July 12, 2023. Tyco began discharging treated GWCTS effluent water to Outfall OF004 on July 17, 2023, and since then the GWCTS operated continuously except for short-term maintenance and, as the system continues to be optimized, some weekends and holidays. One extended shutdown occurred the week of August 7, 2023. The August 2023 shutdown was a result of a health issue with the Jacobs operator and not being able to find backup support to run the system until the following week. GWCTS operations were conducted under management of Jacobs for the reporting period, training of Tyco operators started at the end of the reporting period, and Tyco will take over operations during fourth quarter 2023.

For the time when the GWCTS was not running (the first several weeks of the reporting period before operations began and the week of August 7, 2023), PDP operations continued with the pump house system in the former Salt Vault and former 8th Street Slip areas. Groundwater generated during this time was disposed of offsite at the Waste Management Vickery Deepwell Hazardous Waste disposal facility in Vickery, Ohio. PDP water was also used to fill offsite disposal trucks if additional volume was needed when reject water was being filled into the trucks to optimize operations and maximize efficiencies. PDP operations continued under management of Endpoint Solutions (Endpoint) of Franklin, Wisconsin, during the reporting period, and Endpoint coordinated with Jacobs on PDP settings and conveyance to the GWCTS.

Approximately 597,181 gallons of groundwater was extracted from the Wetlands Area and Main Plant during the reporting period. The overall average pumping rate for these areas since start-up was 5.5 gallons per minute (gpm). For only the days operated (the days when the system was running), the overall average pumping rate was 8.1 gpm.

Approximately 290,336 gallons of groundwater was extracted from the PDP area during the reporting period. The overall average pumping rate for the reporting period in the former Salt Vault was 1.6 gpm and in the former 8th Street Slip was 0.6 gpm. Average weekly pumping rates (which include both areas) ranged from 1.1 to 3.1 gpm and are summarized in Attachment 3.

As noted in previous quarterly reports, groundwater from mainly construction dewatering operations and the operation of building sumps at the site has been temporarily stored onsite in 20,000-gallon frac tanks located in the former Salt Vault and former 8th Street Slip areas. In mid-September, a pretreatment system that includes bag filters, an oil/water separator, and an organoclay pressure vessel setup was put in place by Endpoint to pretreat the frac tank water prior to sending it to the GWCTS for final treatment. An estimated 20,105 gallons of frac tank water was pretreated and sent to the GWCTS for final treatment. Pretreating frac tank water and sending to the GWCTS for final treatment will continue into the fourth quarter.

An estimated 10,000 gallons of groundwater was also extracted during the reporting period as part of construction dewatering operations at the site (Coal Dock paving is discussed in the "WPDES Permit

Activities" section). This water has been temporarily stored onsite in the 20,000-gallon frac tanks located in the former Salt Vault and former 8th Street Slip areas.

An estimated 550,583 gallons of water (a combination of PDP groundwater, reject water, and frac tank water) was removed from the site during the reporting period and disposed of at the Waste Management Vickery Deepwell Hazardous Waste disposal facility in Vickery, Ohio.

The remaining volume of collected groundwater onsite from all sources and stored in frac tanks is approximately 1,000,000 gallons. The stored frac tank water will continue to be disposed of offsite as trucks allow or conveyed to the GWCTS operations for treatment.

#### **PDP Water Levels**

Both the former Salt Vault and former 8th Street Slip areas have maintained average groundwater levels below the target elevation during the reporting period, as indicated by the target elevation calculation included in the manual water level measurements table (Attachment 4) and also shown on the hydrographs with the manual water level measurement average elevation (Attachment 5, which also includes the transducer data collected as part of the pump house system operations). Groundwater levels exceeded the target elevation on the following collection dates:

- July 10, 2023 The water levels in the former Salt Vault were 0.25 foot above the target elevation.
  This was related to system storage tanks being filled to capacity due to limited truck availability from
  the disposal facility, which resulted in reduced operations of the system. This will be mitigated with the
  operation of the improved GWCTS, which commenced on July 17, 2023.
- July 31, 2023 The water levels in the former Salt Vault were 0.05 foot above the target elevation.
  This was during the initial start-up of the GWCTS, and the coordination between the different
  operations of the PDP system, GWCTS, and sending reject offsite to the disposal facility was still being
  optimized.

Note that during the reporting period, the groundwater levels were well below the river elevation; therefore, an inward gradient was maintained in these areas.

#### French Drain in Cover Area H

As noted in the last quarterly report, the sealing conducted in August 2022 at Cover Area H (Figure 3) will likely need additional sealing activities in 2023. However, prior to resealing, per the last quarterly report, Tyco reported that it would modify this area by adding a shallow french drain that is tied into the PDP building and conveyed to GWCTS for treatment. Additional information regarding the proposed work was provided on May 16, 2023, and in a revised submittal on May 26, 2023.

EPA provided an approval letter by email on August 3, 2023. Tyco responded with an email on August 24, 2023, acknowledging receipt of the approval letter and the comments within. The design included the addition of a shallow french drain to maintain groundwater levels in this low-lying area to the west of the former Salt Vault. The french drain will further reduce the risk of seasonal flooding and prevent potential mixing of groundwater with stormwater that is conveyed at grade as part of the Outfall 5 and 6 (noted as Weir 4 on Figure 4) permitted stormwater discharge system. The installation work was initiated on September 27, 2023, by Endpoint, and the french drain was operational by October 4, 2023. This area will be resealed in the fourth quarter. A memorandum documenting the activities will be prepared by Endpoint and submitted in the fourth quarter or as part of the next quarterly report.

#### **Barrier Wall Groundwater Monitoring Activities**

As noted in the last quarterly report, the spring barrier wall groundwater monitoring and sampling event was conducted the week of June 19, 2023, by Endpoint. The sampling was conducted in accordance with the *Revised Barrier Wall Groundwater Monitoring Plan Update* (BWGMPU)<sup>2</sup> and the 2019 Addendum to the 2015 BWGMPU.<sup>3</sup> Monitoring well nest MW105, which was abandoned in 2022, was reinstalled July 26, 2023 (Attachment 6 includes the well abandonment, installation, and development logs). These wells were sampled on July 31, 2023, following their installation and development. The sitewide water levels at all the BWGMPU wells were measured on July 31, 2023 so the MW105 nest wells were also included in the event. Bedrock test well BT-02 was not abandoned as it was inaccessible due to the placement of an office trailer over this well. Abandonment of BT-02 will be considered in the future as part of a future well installation/abandonment event (details on BT-02 and the abandonment request were included in the May 17, 2023, email correspondence).

Monitoring well nest MW045S and MW045M flush mount covers were reset in place (after being paved over in 2022 during paving work performed by ChemDesign) on July 27, 2023, by Endpoint. MW105 nest and MW045 nest were surveyed on August 18 and 19, 2023, and MW107 flush mount wells were surveyed (because of the Coal Dock paving discussed in the "WPDES Permit Activities" section) on September 23, 2023, by Endpoint, a Wisconsin-licensed surveyor. The updated survey coordinates and elevation data will be provided in the annual report.

Pressure transducer–related activities were completed on August 24, 2023. These activities included downloading data from each transducer and collecting manual water levels at the time of transducer downloads.

#### **Maintenance Inspections**

Routine maintenance in phyto-plot Zones 4 and 7 and general inspections of the remaining phyto-plot areas (Zones 1, 2, 3, 5, and 6; Figure 2) were conducted by Sand County Environmental, Inc. (Sand County) of Rhinelander, Wisconsin, during the reporting period. The trees in Zones 1, 2, 3, 5, and 6 appear to be healthy, and there were no major issues or findings to address. The routine maintenance in Zones 4 and 7 included the following:

- Zone 4 Each month (July, August, and September), weeds were cleared around all the trees.
- Zone 7 Required fence and irrigation system maintenance was performed during each monthly trip. In early September, the deer fence was moved to make room for the Coal Dock stormwater discussed in the "WPDES Permit Activities" section.
- On September 27, 2023, the last trip was made to shut down for the season. In Zone 7, the irrigation
  pump was pulled, and the irrigation lines were drained. The entrances and deer fence were also sealed
  up in Zones 4 and 7. The stormwater work conducted in the Coal Dock area also opened up additional
  area for planting trees. Sand County estimates that Tyco should be able to fit approximately 38 more
  hybrid poplars and 65 more willows into the area. Because it is too late in the season to plant these
  now, they are scheduled to be planted in spring 2024.

 $<sup>^{2}</sup>$  CH2M HILL, Inc. 2015. Revised Barrier Wall Groundwater Monitoring Plan Update. September 3.

<sup>&</sup>lt;sup>3</sup> Jacobs. 2019. Addendum to 2015 Barrier Wall Groundwater Monitoring Plan Update. June.

Cover area inspections were completed on September 26, 2023 (Figure 3). There were no issues or findings to address, except for the resealing to be completed in Cover Area H discussed in the previous section "French Drain in Cover Area H."

The survey of the sheet pile vertical barrier wall was completed on September 22 and 23, 2023, by Endpoint. These data are currently being reviewed and will be summarized in the annual report.

In addition, areas identified during the June 27 and 28, 2023, sheet pile vertical barrier wall inspection (Figures 1 and 4) that had small leaks and required follow-up maintenance were addressed by MJB Industries, Inc. in September 2023. For the five bolts along the Main Plant area that had small leaks, marine weld epoxy sealant was reapplied and the bolts were tightened, which eliminated the leaks. During the maintaince, all the bolts along the Main Plant area were tightened and marine weld epoxy sealant was applied as needed.

The vertical barrier wall inspection details will be provided in the annual report.

#### 2023 Sediment Sampling Event

As noted in the last quarterly report, the field team was onsite June 30, 2023, to start the scientific scuba diver portion of the sediment sampling activities, and this work was completed by July 6, 2023. All core percent recoveries were greater than 75 percent; therefore, a second mobilization using alternative collection methods was not required. Per the Agencies' request, initial data were emailed for reference as follows:

- July 14, 2023 Summary of the measured sediment thicknesses and sample core percent recoveries from the diver conducted sediment sampling event
- September 1, 2023 Table with latitude and longitude coordinates, surface water elevations, and water depth data and laboratory data reports

The sediment data will be compiled and provided in a report that will be submitted in the fourth quarter.

#### **Quarterly Report Comments**

EPA provided comments on the first quarter 2023 quarterly report on June 30, 2023. A response memorandum was submitted via email on August 1, 2023. EPA provided an approval email on October 3, 2023, with two additional comments. Where applicable, the third quarter 2023 quarterly report has been modified to address EPA comments (such as inclusion of updated figures with site features, updates to attachments, and addition of a table that summarizes water pumped, treated, stored, discharged, and disposed of).

#### **Monthly Meetings**

Monthly teleconference meetings were attended by EPA, WDNR, Tyco, Jacobs, and Endpoint on July 6, August 4, and September 7, 2023. During each meeting, the status of deliverables and a brief update of completed or upcoming activities were discussed.

#### **Additional Activities**

#### **WPDES Permit Activities**

Follow-on activities as part of the final WPDES Permit WI-0001040-08-0 (effective January 1, 2021, through December 31, 2025) continued in third quarter 2023, which included the following:

- Activities to implement the GWCTS improvements were completed in third quarter 2023.
   Groundwater start-up and commissioning activities were conducted at the end of June and into July, and the system is now operating on a routine basis. Details on operations are provided in the previous sections.
- Engineering optimization continued for the portions of the stormwater improvement (approved by WDNR). A materials management plan was submitted for the activities on September 15, 2023, and approved by WDNR with comments on October 2, 2023. Final stormwater construction activities are anticipated to start and be completed in fourth quarter 2023.
- As part of the stormwater improvements work, the WDNR-approved Coal Dock area paving work was conducted in September 2023 by Barley Excavating Inc. of Menominee, Michigan, and Arcadis U.S., Inc. provided oversight. The paving work required grading of the area to remove enough material for the base of the asphalt or concrete to be placed and surface grading to allow for better drainage to Weir 3 (Figure 4). A materials management plan was not needed because less than 2,500 cubic yards of soil was planned to be removed, and the soil was temporarily stockpiled and containerized for offsite disposal within the 15-day accumulation timeframe. Before the start of work, six samples were collected (Figure 4) and then composited and sent to the laboratory for waste characterization analysis. During the work, soils were temporarily stockpiled near the former Salt Vault area, west of Building 59, on an asphalt-paved area. The stockpile area had soil berms wrapped in plastic and silt socks at the entrance. Each day the stockpile was covered with tarps, tarps were weighed down, and the area was secured. A total of 58 rolloff containers (approximately 1,000 tons) were loaded and transported offsite to the Waste Management Chemical Waste Management of the Northwest Subtitle C landfill located in Arlington, Oregon. Attachment 7 includes the laboratory report for the waste characterization sample and a photo log of the soil stockpiling activities.

#### ChemDesign Building 67 Expansion

As noted during the last quarterly report, ChemDesign, which is a long-term tenant on the property, was in the process of expanding existing Building 67 (Figure 2), and the new building layout and related demolition and construction activities were recently determined to impact monitoring wells MW011S and MW011M (Figure 2). On April 6, 2023, an email was sent to the Agencies regarding ChemDesign work. The email was requesting approval to abandon these wells. A memorandum was submitted on April 20, 2023, that further detailed changes to RCRA site components due to ChemDesign Building 67 expansion. A teleconference meeting was held on May 2, 2023, with the Agencies, Tyco, Jacobs, and Endpoint, and the details of the work were discussed. It was later determined that ChemDesign had already moved ahead with components of the work (MW011S/MW011M were abandoned on April 24, 2023, by ChemDesign's contractor, and work in cover areas had already begun to allow for the grading necessary to start the building construction); the memorandum was therefore revised and submitted on May 26, 2023, and updated with the work that was completed.

EPA provided review comments on August 4, 2023, regarding the May 26, 2023, memorandum. Tyco submitted a response memorandum, *Response to EPA Review: ChemDesign Building 67 Expansion Memo*, on August 24, 2023. EPA provided an approval letter emailed on September 12, 2023. Tyco responded

with an email on September 14, 2023, acknowledging receipt of the approval letter and the comment within.

#### Soil Management Plan

As noted during the last quarterly report, during the May 2, 2023, meeting with the Agencies, Tyco, Jacobs, and Endpoint, it was also discussed that a soil management plan be prepared for the site. The Soil Management Plan was submitted on May 15, 2023. EPA provided review comments on June 30, 2023. Tyco submitted the *Revised Soil Management Plan and Response to Comments* on August 2, 2023, which is currently being reviewed by the Agencies.

#### **Data Collected**

Extraction and treatment volumes, analytical testing, and discharge data are required as part of the WPDES permits obtained from WDNR for operating the existing GWCTS, which operates under WPDES Permit WI-0001040-08-0. Attachment 2 includes the GWCTS monthly WPDES Discharge Monitoring Reports for June 2023 through August 2023 and the WET Testing Report Form for WPDES Outfall OF004. Attachment 1 contains additional data on GWCTS operations.

Weekly groundwater elevation data were collected from monitoring wells in the former 8th Street Slip and former Salt Vault areas in accordance with the PDP requirements, and the data are included in the 2023 PDP summary table (Attachment 4). Water level data from transducers in monitoring wells and pumping rates collected as part of the PDP pump house system are also summarized in a hydrograph and stacked bar chart (with average weekly pumping rates), respectively (Attachments 5 and 3). Although this is the post–drawdown monitoring phase (which requires quarterly manual water level measurements, instead of weekly), weekly water level measurements will continue to be collected until the frac tanks staged on the former Salt Vault and former 8th Street Slip are removed out of the transducer line of sight to the pump house building (Figure 2).

Barrier wall groundwater monitoring and water level event data will be included in the annual/5-year review report. Groundwater elevation data recorded by transducers are being compiled and evaluated. The transducer data will also be provided in the annual/5-year review report.

As noted in a prior section, some of the 2023 sediment data were provided via email on July 14 and September 1, 2023, and all the data will be summarized and included in a 2023 sediment sampling report in the fourth quarter.

#### **Problems Encountered**

There were no new problems encountered during this reporting period.

# **Schedule of Upcoming Activities**

The following summarizes the activities to be conducted during the next reporting period:

- Submit the quarterly progress report.
- Continue operating the GWCTS.

- Continue measuring weekly PDP water levels in the former Salt Vault and former 8th Street Slip areas until frac tanks are removed.
- Begin implementation of remaining stormwater improvement optimization construction activities.
- Complete installation and operation of the shallow french drain to maintain groundwater levels within the low-lying area to the west of the former Salt Vault.
- Conduct fourth quarter 2023 semiannual barrier wall water level monitoring event.
- Conduct transducer data download activities.
- Conduct vertical barrier wall inspection of the slurry wall.
- Submit the 2023 sediment sampling report.
- Submit the combined 2023 annual report and 5-year technical review report.
- Submit the french drain memorandum.

### **List of Key Correspondence and Document Submittals**

Project-related documents submitted to and received from the Agencies during third quarter 2023 are summarized in Tables 1 and 2, respectively.

**Table 1. Documents Submitted** 

Quarterly Progress Report (July through September 2023), Tyco Fire Products LP Facility, Marinette, Wisconsin

Description of Submittal	Submitted To	Date Submitted
Email Notification—Courtesy Discharge Notification, WPDES Permit No. WI-0001040-08-0	WDNR	July 12, 2023
Email—Requested Sediment Sampling Event Data	EPA	July 14, 2023
Quarterly Progress Report (Second Quarter 2023)	EPA	July 17, 2023
Response to Comments on Q1 2023 Progress Report Review with Comments	EPA	August 1, 2023
Revised Soil Management Plan and Response to Comments	EPA	August 2, 2023
Email—August 3rd Proposed RCRA Meeting Agenda Items (Note that the meeting was adjusted to August 4.)	EPA and WDNR	August 2, 2023
Email Acknowledgement—Regarding comments from August 3, 2023, EPA Review: Updated French Drain Installation Memo	EPA	August 24, 2023
Response to EPA Review: ChemDesign Building 67 Expansion Memo	EPA	August 24, 2023
Email Clarification—Regarding Additional Data Requested for Sediment Sampling Event Data	EPA and WDNR	August 29, 2023
Email Response— Additional Data Requested for Sediment Sampling Event Data (Included Table with Requested Data and Laboratory Data Reports)	EPA and WDNR	September 1, 2023
Email—September 7th Proposed RCRA Meeting Agenda Items	EPA and WDNR	September 6, 2023

#### **Table 1. Documents Submitted**

Quarterly Progress Report (July through September 2023), Tyco Fire Products LP Facility, Marinette, Wisconsin

Description of Submittal	Submitted To	Date Submitted
Email Acknowledgement—Regarding approval and comment from September 12, 2023, EPA Review: Revised ChemDesign Building 67 Expansion Memo	EPA	September 14, 2023
Materials Management Plan for Additional Stormwater Work	WDNR	September 15, 2023
Email—Requesting update on Agencies review of the June 13, 2023, Surface Weighted Average Concentration Response To Comments	EPA	September 26, 2023

#### Table 2. Correspondence from Agency

Quarterly Progress Report (July through September 2023), Tyco Fire Products LP Facility, Marinette, Wisconsin

Description of Correspondence	Submitted By	Date Submitted
EPA Review: Updated French Drain Installation Memo (Approval)	EPA	August 3, 2023
EPA Review: Updated ChemDesign Building 67 Expansion Memo	EPA	August 4, 2023
Email Request—Additional Data Requested for Sediment Sampling Event Data	EPA	August 24 and 29, 2023
Email Request—Laboratory Data Requested for Sediment Sampling Event Data	WDNR	August 30, 2023
Review: Revised ChemDesign Building 67 Expansion Memo (Approval)	EPA	September 12, 2023

If you have any questions or require additional information, please contact me at 262-644-6167 or Denice Nelson at 651-280-7259.

Respectfully Yours,

Jacobs

Heather Ziegelbauer Project Manager

cc: Angela Carey, WDNR

Sarah Krueger, WDNR

Huther J. Miegelbauer

Ryan Suennen, Tyco Fire Products Denice Nelson, Johnson Controls Scott Wahl, Johnson Controls

Mariel Carter, Stephenson Public Library

#### **Figures**

Site Map
 Site Plan with Wells
 Cover Area Location Map
 Vertical Barrier Wall Details

#### **Attachments**

Groundwater Collection and Treatment System Operation Summary 1 2 Discharge Monitoring Reports for the Groundwater Collection and Treatment System and Outfall OF004 and the WET Report Form for Outfall OF004 3 2023 PDP Weekly Average Extraction Rates 2023 PDP Groundwater Elevation Monitoring 4 5 2023 PDP System Hydrographs 6 MW105 Monitoring Well Nest Abandonment, Installation and Development Logs 7 Coal Dock Area Paving Waste Characterization Laboratory Report and Soil Management Photo Log

# **Figures**

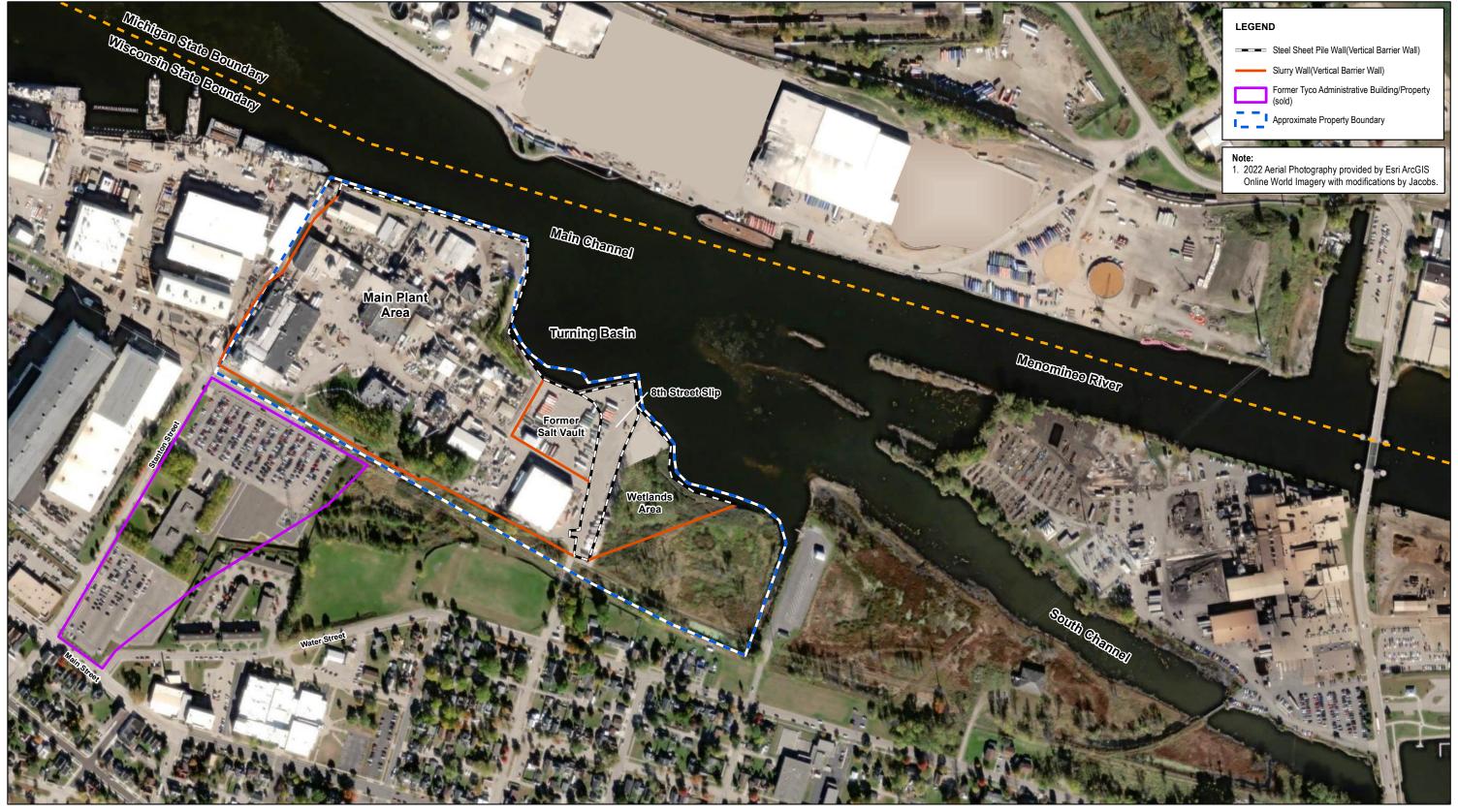
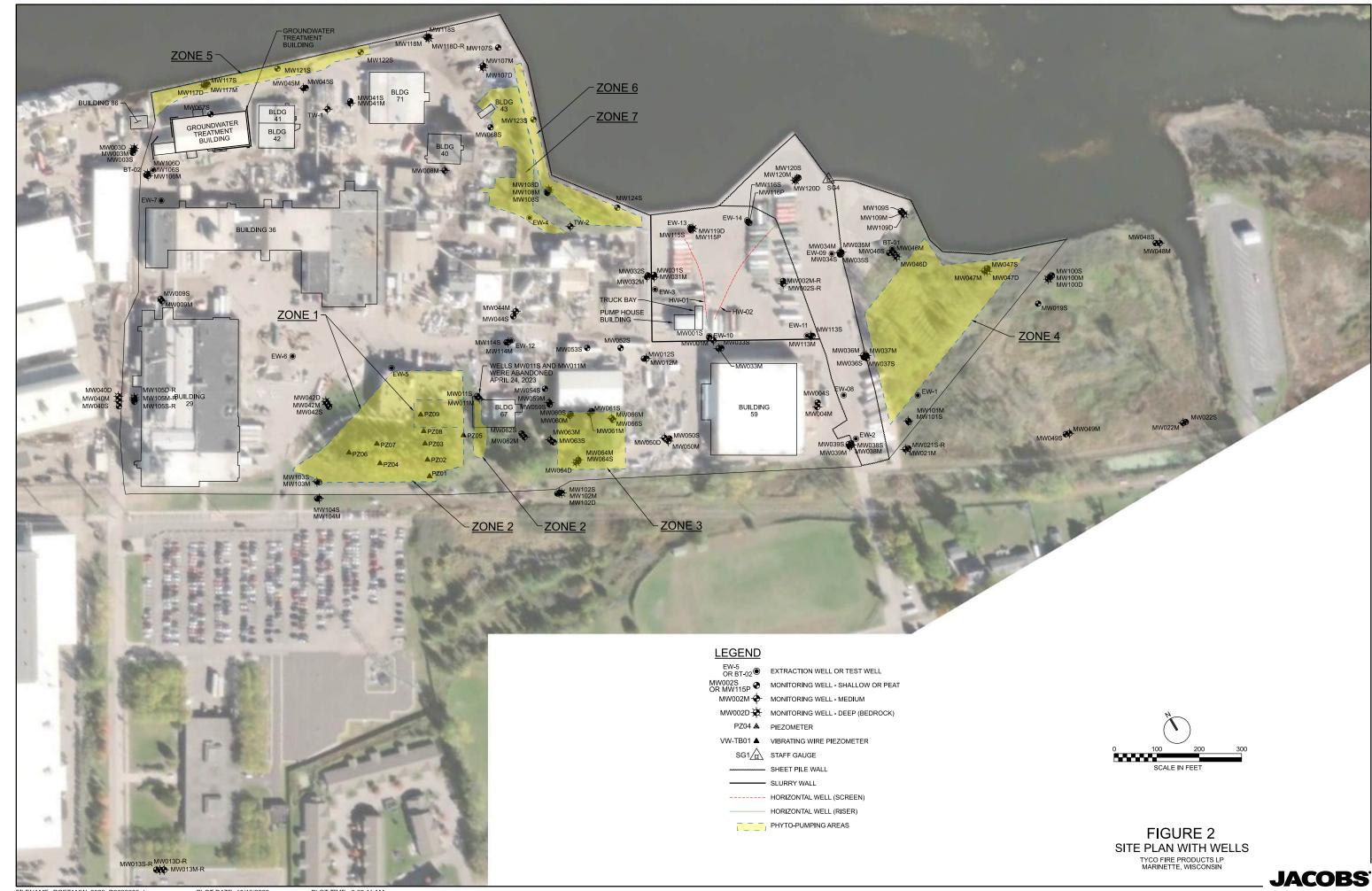


Figure 1. Site Map Tyco Fire Products LP Facility Marinette, WI

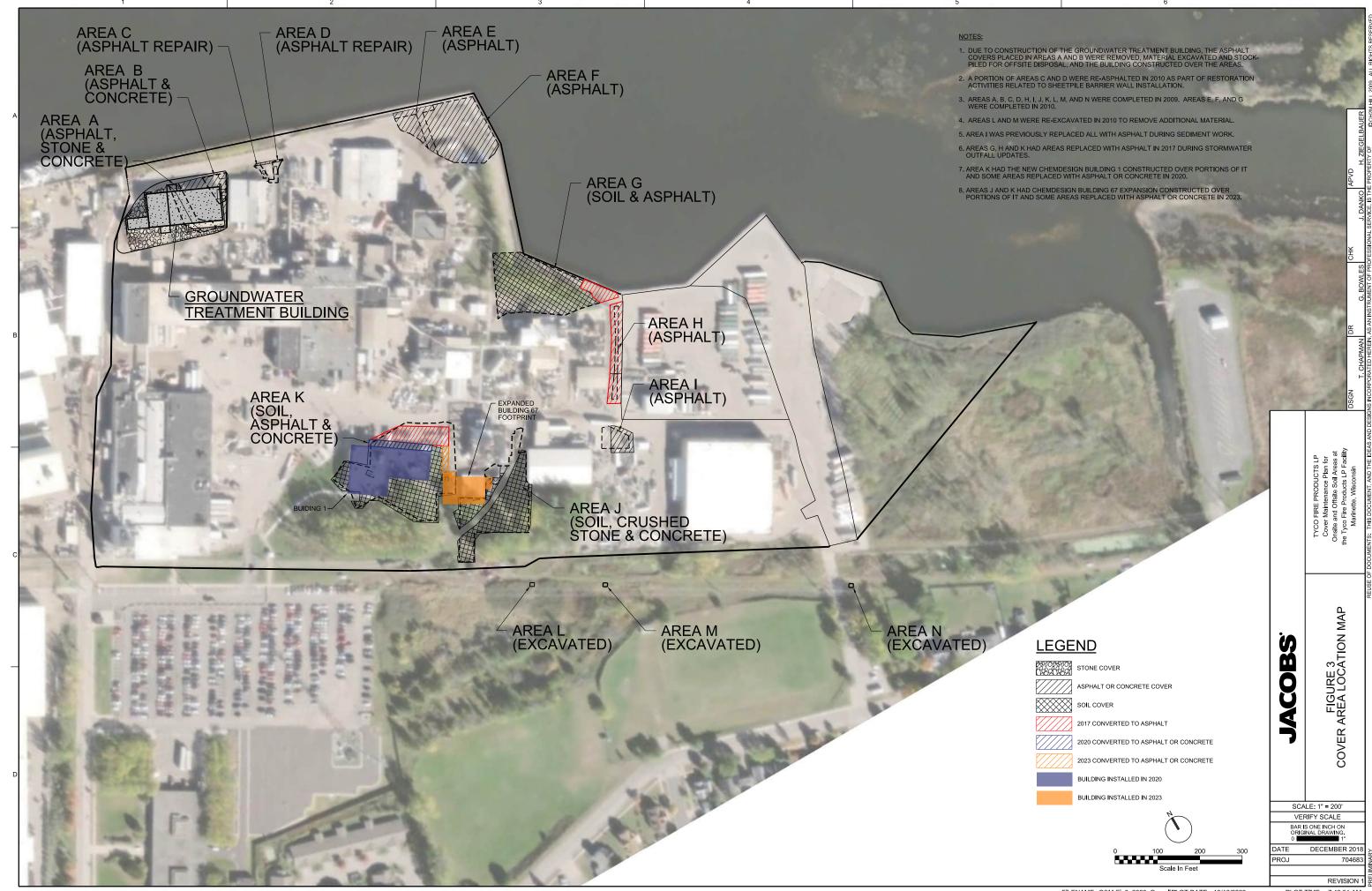


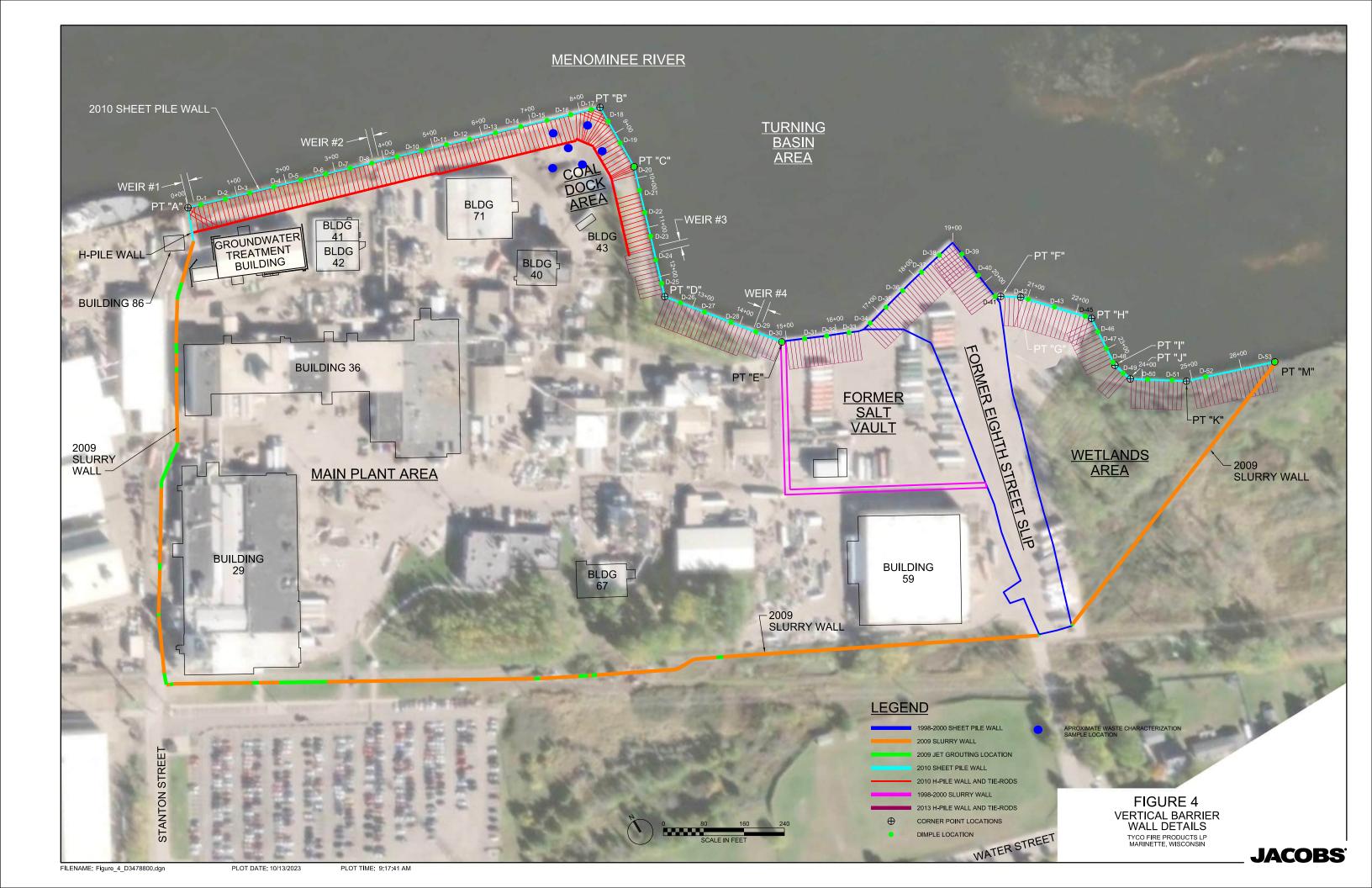


FILENAME: PGETAMW\_2023\_D3630600.dgn

PLOT DATE: 10/13/2023

PLOT TIME: 9:23:11 AM





Attachment 1
Groundwater Collection and Treatment System
Operation Summary

# Groundwater Collection and Treatment System Operations for Tyco Fire Products LP, Marinette, Wisconsin, July 1 through September 30, 2023

The following summarizes groundwater collection and treatment system (GWCTS) operations from July 1 through September 30, 2023, at the Tyco Fire Products LP facility on Stanton Street in Marinette, Wisconsin:

- The GWCTS operated for 11 days in July 2023, 18 days in August 2023, and 22 days in September 2023, for a total of 51 days.
- For the reporting period, the precipitation recorded from the weather station in Marinette, Wisconsin, was 6.84 inches of rain (http://www.ncdc.noaa.gov/cdo-web/datasets/GHCND/stations/ GHCND:USC00475091/detail).
- Table 1-1 lists the estimated volumes of water extracted, treated, and discharged under the Wisconsin Pollutant Discharge Elimination System permit as well as the volumes disposed of offsite and those currently stored onsite and awaiting treatment or disposal.

**Table 1-1. GWCTS Operations Summary (July through September 2023)** *GWCTS Operations, Tyco Fire Products LP Facility, Marinette, Wisconsin* 

Item Description	Estimated Gallons, Third Quarter 2023	Comments
Total GWCTS Extracted Groundwater	887,517	
Pump Down Program (PDP) Area Extracted Groundwater	290,336	Some PDP groundwater was disposed offsite and included in the "Water Disposed Offsite" total
Wetlands Area and Main Plant Extracted Groundwater	597,181	
Additional Groundwater Extracted from Non-GWCTS Sources	10,000	From Coal Dock paving construction dewatering, added to frac tank storage onsite
GWCTS Influent	767,790	
GWCTS Reject Water Produced	173,770	Included as part of the "Water Disposed of Offsite" total
GWCTS Effluent	604,897	
Outfall OF004 Combined Effluent	3,433,347	Represents the combined GWCTS and facility wastewater
Frac Tank Water Processed through the GWCTS	20,105	Frac tank water consists of water collected in 2023 from construction dewatering activities and water from building sumps and roof drains.
Water Disposed of Offsite (combination of PDP groundwater, reject water, and frac tank water)	550,583	Disposed of at Waste Management Vickery Deepwell Hazardous Waste disposal facility in Vickery, Ohio
Remaining Water Stored in Frac Tanks Onsite (at end of quarter)	1,000,000	Water will continue to be conveyed to the GWCTS and disposed of offsite as trucks allow.

Attachment 2
Discharge Monitoring Reports for the Groundwater
Collection and Treatment System and
Outfall OF004 and the WET Report Form for
Outfall OF004

#### **Wastewater Discharge Monitoring Long Report**

Facility Name: TYCO FIRE PRODUCTS LP

Contact Address: One Stanton St

Marinette, WI 54143

Facility Contact: Mike Elliott, EHS Manager

Phone Number: 715-735-7415

Reporting Period: 06/01/2023 - 06/30/2023

Form Due Date: 07/21/2023
Permit Number: 0001040

#### For DNR Use Only

Date Received:

DOC: 517360 FIN: 7245

FID: 438039470

Region: Northeast Region

Permit Drafter: Laura K Rodriguez Alvarez

Reviewer: Laura A Gerold

Office: Green Bay

	Sample Point	703	703	101	101	101
	Description	Menominee River Intake	Menominee River Intake	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	211	35	211	373	374
	Description	Flow Rate	Arsenic, Total Recoverable	Flow Rate	pH (Maximum)	pH (Minimum)
	Units	gpd	ug/L	MGD	su	su
	Sample Type	TOT DAILY	GRAB	CONTINUOUS	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	MONTHLY	DAILY	DAILY	DAILY
Sample Results	Day 1			0.03927	7.2	6.6
	2			0.02458	7.8	6.4
	3			0.00716	8.0	6.3
	4			0		
	5			0.03220	7.6	7.0
	6			0.04586	7.6	6.4
	7			0.03886	7.7	6.5
	8			0.04034	7.9	6.8
	9			0.03352	8.6	6.7
	10			0.01128	7.6	6.6
	11			0		
	12			0.03444	7.8	6.6
	13			0.03685	7.5	6.6
	14			0.04268	8.0	6.5
	15			0.04847	7.8	6.6
	16			0.01882	7.7	6.3
	17			0		
	18			0		
	19			0.03855	7.6	6.6
	20			0.05391	7.4	6.8
	21			0.05078	7.4	6.4
	22			0.04789	7.8	6.8
	23			0.03331	8.5	7.2
	24			0		
	25			0		
	26			0.04907	8.1	7.4
	27			0.04964	7.7	7.2
	28			0.05012	7.7	7.4
	29			0.04921	8.0	7.4
	30			0.01461	7.6	7.0

Permit: 0001040 DOC: 517360

	Sample Point	703	703	101	101	101	
	Description	Menominee River Intake	Menominee River Intake	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	
	Parameter	211	35	211	373	374	
	Description	Flow Rate	Arsenic, Total Recoverable	Flow Rate	pH (Maximum)	pH (Minimum)	
	Units	gpd	ug/L	MGD	su	su	
Summary Values	Monthly Avg		-	0.029714	7.775	6.754166667	
	Monthly Total						
	Daily Max			0.05391	8.6	7.4	
	Daily Min			0	7.2	6.3	
Limit(s) in Effect	Monthly Avg						
	Monthly Total						
	Daily Max				9 0		
	Daily Min					6 0	
QA/QC Information	LOD	,	,				
	LOQ						
	QC Exceedance	N	N	N	N	N	
	Lab Certification						

	Sample Boint	101	101	101	101	101
	Sample Point					-
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	379	376	457	651	87
	Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Suspended Solids, Total	Oil & Grease (Hexane)	Cadmium, Total Recoverable
	Units	minutes	Number	mg/L	mg/L	ug/L
	Sample Type	CONTINUOUS	CONTINUOUS	24 HR FLOW PROP	GRAB	24 HR FLOW PROP
	Frequency	DAILY	DAILY	3/WEEK	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5			5.0		
	6			3.2		
	7			2.2		
	8					
	9					
	10					
	11					
	12			<1.9		<0.49
	13			<1.9		
	14			<1.9	<1.4	
	15					
	16					
	17					
	18					
	19			<1.9		
	20			<1.9		
	21			<1.9		
	22					
	23 24					
	25					
	26			<1.9		
	27			<1.9		
	28			<1.9		
	29					
	30					
	31					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishir Effluent	ng	Metal Finish Effluent	Metal Finishing Effluent		Metal Finishing Effluent		ing	Metal Finishing Effluent	
	Danamatan			070		457		054			
	Parameter	379		376				651	,	87	
	Description	pH Total Exceed Time Minute		pH Exceedar Greater Thar Minutes		Suspended Se Total	olids,	Oil & Grease (H	exane)	Cadmium, To Recoverable	
	Units	minutes		Number		mg/L		mg/L		ug/L	
Summary Values	Monthly Avg					0.8666666	667	0		0	
	Monthly Total										
	Daily Max					5		<1.4		<0.49	
	Daily Min					<1.9		<1.4		<0.49	
Limit(s) in Effect	Monthly Avg					31	0	26	0	260	0
	Monthly Total	446	0	0	0						
	Daily Max					60	0	52	0	690	0
	Daily Min										
QA/QC Information	LOD				_!		<u> </u>	1.4	!	0.49	
	LOQ							5.3		1	
	QC Exceedance	N		N		N		N		N	
	Lab Certification					9995800	10	99958001	10	99958001	0

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	147	315	553	507	280
	Description	Copper, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Total Toxic Organics	Mercury, Total Recoverable
	Units	ug/L	ug/L	ug/L	ug/L	ng/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	GRAB
I- BK-	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
ample Results						
	2					
	3					
	4					
	5					
	6					
	7					
	8 9					
	10					
	11					
	12	7.1	7.4	140		
	13		7.1	110		
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					0.36
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101	101
	Description	Metal Finishii Effluent	ng	Metal Finishi Effluent	ng	Metal Finish Effluent	ing	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	147		315		553		507	280
	Description	Copper, Tota Recoverable		Nickel, Tota Recoverabl		I Zinc, Total		Total Toxic Organi	
	Units	ug/L		ug/L		ug/L		ug/L	ng/L
Summary Values	Monthly Avg	7.1		7.4		140			0.36
	Monthly Total								
	Daily Max	7.1		7.4		140			0.36
	Daily Min	7.1		7.4		140			0.36
Limit(s) in Effect	Monthly Avg	2070	0	2380	0	1480	0		
	Monthly Total								
	Daily Max	3380	0	3980	0	2610	0	2130	
	Daily Min								
QA/QC Information	LOD	1.7		1.5		3.6			0.2
	LOQ	5		5		10			0.5
	QC Exceedance	N		N		N		N	N
	Lab Certification	99958001	0	99958001	0	9995800	10		999580010

	Sample Point	101	101	101	704	704
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	GWCTS Influent	GWCTS Influent
	Parameter	280	35	35	211	35
	Description	Mercury, Total Recoverable	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Flow Rate	Arsenic, Total Recoverable
	Units	mg/day	ug/L	lbs/day	gpd	ug/L
	Sample Type	CALCULATED	24 HR FLOW PROP	CALCULATED	CONTINUOUS	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	DAILY	WEEKLY
Sample Results	- ,					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	10					
	11					
	12		<2.1	0.000609		
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27	0.06773148				
	28					
	29					
	30					
	31					

	Sample Point	101	101	101	704	704	
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	GWCTS Influent	GWCTS Influent	
	Parameter	280	35	35	211	35	
	Description	Mercury, Total Recoverable	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Flow Rate	Arsenic, Total Recoverable	
	Units	mg/day	ug/L	lbs/day	gpd	ug/L	
Summary Values	Monthly Avg	0.06773148	0	0.000609			
	Monthly Total						
	Daily Max	0.06773148	<2.1	0.000609			
	Daily Min	0.06773148	<2.1	0.000609			
Limit(s) in Effect	Monthly Avg						
	Monthly Total						
	Daily Max						
	Daily Min						
QA/QC Information	LOD	<u> </u>	2.1	•		·	
	LOQ		5				
	QC Exceedance	N	N	N	N	N	
	Lab Certification		999580010				

	Sample Point	704	704	107	004	004
	Description	GWCTS Influent	GWCTS Influent	Mercury Field Blank Results	Combined Process WW & GW	Combined Process WW & GW
	Parameter	457	280	280	211	373
	Description	Suspended Solids, Total	Mercury, Total Recoverable	Mercury, Total Recoverable	Flow Rate	pH (Maximum)
	Units	mg/L	ng/L	ng/L	MGD	su
	Sample Type	24 HR FLOW PROP	GRAB	BLANK	CONTINUOUS	CONTINUOUS
	Frequency	WEEKLY	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1				0.03927	7.2
	2				0.02458	7.8
	3				0.00716	8.0
	4				0	
	5				0.03220	7.6
Ī	6				0.04586	7.6
	7				0.03886	7.7
	8				0.04034	7.9
	9				0.03352	8.6
	10				0.01128	7.6
	11				0	
	12				0.03444	7.8
	13				0.03685	7.5
	14				0.04268	8.0
	15				0.04847	7.8
	16				0.01882	7.7
	17				0	
	18				0	
	19				0.03855	7.6
	20				0.05391	7.4
	21				0.05078	7.4
	22				0.04789	7.8
	23				0.03331	8.5
	24				0.03331	0.5
	25				0	
	26				0.04907	8.1
				0.20		
	27			0.39	0.04964	7.7
	28				0.05012	7.7
	29				0.04921	8.0
	30				0.01461	7.6
	31					

	Sample Point	704	704	107	004	004	
	Description	GWCTS Influent	GWCTS Influent	Mercury Field Blank Results	Combined Process WW & GW	Combined Process WW & GW	
	Parameter	457	280	280	211	373	
	<b>Description</b> Suspended Solids, Mercury, T		Mercury, Total Recoverable	Mercury, Total Recoverable	Flow Rate	pH (Maximum)	
	Units	mg/L ng/L		ng/L	MGD	su	
Summary Values			0.39	0.029714	7.775		
	Monthly Total						
	Daily Max			0.39	0.05391	8.6	
	Daily Min			0.39	0	7.2	
Limit(s) in Effect	Monthly Avg						
	Monthly Total						
	Daily Max					9 0	
	Daily Min						
QA/QC Information	LOD		,	0.2			
	LOQ			0.5			
	QC Exceedance	N	N	N	N	N	
	Lab Certification			999580010			

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	374	112	35	35	280
	Description	pH (Minimum)	Chlorine, Total Residual	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Mercury, Total Recoverable
	Units	su	ug/L	ug/L	lbs/day	ng/L
	Sample Type	CONTINUOUS	GRAB	24 HR FLOW PROP	CALCULATED	GRAB
	Frequency	DAILY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1	6.6				
	2	6.4				
	3	6.3				
	4					
	5	7.0				
	6	6.4				
	7	6.5				
	8	6.8				
	9	6.7				
	10	6.6				
	11					
	12	6.6				
	13	6.6				
	14	6.5		<2.1	0.000756	
	15	6.6				
	16	6.3				
	17					
	18					
	19	6.6				
	20	6.8	<20			
	21	6.4				
	22	6.8				
	23	7.2				
	24					
	25					
	26	7.4				
	27	7.2				0.44
	28	7.4				<u> </u>
	29	7.4				
	30	7.0				
	31					

	Sample Point	004		004		004		004		004	
	Description	Combined Proc WW & GW	ess	Combined Pro		Combined Pro		Combined Pro WW & GV		Combined Process WW & GW	
	Parameter	374		112		35		35		280	
	Description	pH (Minimum	pH (Minimum)		Chlorine, Total Residual		tal le	Arsenic, To Recoverab		Mercury, Total Recoverable	
	Units	su	su			ug/L		lbs/day		ng/L	
Summary Values	Monthly Avg	6.754166667		0		0		0.00075	6	0.44	
	Monthly Total										
	Daily Max	7.4		<20		<2.1		0.000756		0.44	
	Daily Min	6.3		<20		<2.1		0.000756		0.44	
Limit(s) in Effect	Monthly Avg			38	0						$\prod$
	Monthly Total										
	Daily Max			38	0	194	0	0.22	0	18	0
	Daily Min	6	0								
QA/QC Information	LOD			30	ı	2.1	-		-	0.2	
	LOQ			100		5				0.5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification					999580010				99958001	0

	Cample Daint	004	004	004	004	004
	Sample Point  Description	Combined Process	Combined Process	Combined Process	Combined Process	Combined Process
	Description	WW & GW	WW & GW	WW & GW	WW & GW	WW & GW
	Parameter	280	87	87	147	147
	Description	Mercury, Total Recoverable	Cadmium, Total Recoverable	Cadmium, Total Recoverable	Copper, Total Recoverable	Copper, Total Recoverable
	Units	mg/day	ug/L	lbs/day	ug/L	lbs/day
	Sample Type	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	3					
}	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13		0.40	0.0004704		0.00400
	14		<0.49	0.0001764	4.5	0.00162
	15					
	16 17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29 30					
	31					
	, v.				1	

	Sample Point	004	004		004		004		004	
	Description	Combined Process WW & GW	Combined Proce	ess	Combined Pro-		Combined Pro WW & GW		Combined Process WW & GW	
	Parameter	280	87		87		147		147	+
	Description	Mercury, Total Recoverable	Cadmium, Total Recoverable		Cadmium, Total Recoverable		Copper, Tot Recoverabl		Copper, Total Recoverable	
	Units	mg/day	ug/L		lbs/day		ug/L		lbs/day	
Summary Values	Monthly Avg		0		0.000176	4	4.5		0.00162	
	Monthly Total									
	Daily Max		<0.49		0.000176	4	4.5		0.00162	
	Daily Min				0.0001764		4.5		0.00162	
Limit(s) in Effect	Monthly Avg		57	0			69	0		
	Monthly Total									
	Daily Max		57	0	0.23	0	69	0	0.28	0
	Daily Min									
QA/QC Information	LOD	·	0.49				1.7	<u> </u>		
	LOQ		1				5			
	QC Exceedance	N	N	N		N		N		
	Lab Certification		999580010	)			999580010			

	Comple Daint	004	004	004	004	004
	Sample Point Description	004 Combined Process	004 Combined Process	Combined Process	Combined Process	Combined Process
	Description	WW & GW	WW & GW	WW & GW	WW & GW	WW & GW
	Parameter	315	315	553	553	152
	Description	Nickel, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Zinc, Total Recoverable	Cyanide, Amenable
	Units	ug/L	lbs/day	ug/L	lbs/day	ug/L
	Sample Type	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
-	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14	1.7	0.000612	52	0.01872	6.3
	15					
	16					
	17 18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26 27					
	28					
	29					
	30					
	31					

	Sample Point	004		004		004		004		004	
	Description	Combined Prod WW & GW		Combined Proc WW & GW	ess	SS Combined Process WW & GW		Combined Process WW & GW		Combined Process WW & GW	
	Parameter	315		315		553		553		152	
	Description		Nickel, Total Recoverable		Nickel, Total Zinc, Total Recoverable Recoverable		Zinc, Total Recoverable		Cyanide, Amenable		
	Units	ug/L		lbs/day		ug/L		lbs/day		ug/L	
Summary Values	Monthly Avg	1.7		0.000612		52		0.01872		6.3	
	Monthly Total										
	Daily Max			0.000612		52		0.01872		6.3	
	Daily Min			0.000612	0.000612 52		0.018			6.3	
Limit(s) in Effect	Monthly Avg	2000	0			520	0			92	0
	Monthly Total										
	Daily Max	2000	0	8.10	0	520	0	2.10	0	92	0
	Daily Min										
QA/QC Information	LOD	1.5				3.6			·	3.6	
	LOQ	5	5			10				5	
	QC Exceedance	N		N		N	N			N	
	Lab Certification	99958001	0			999580010				999580010	

	Sample Point	004	004	004	004	004
	Description	Combined Process	Combined Process	Combined Process	Combined Process	Combined Process
	Description	WW & GW	WW & GW	WW & GW	WW & GW	WW & GW
	Parameter	152	231	480	1352	1353
	Description	Cyanide, Amenable	Hardness, Total as CaCO3	Temperature Maximum	PFOA	PFOS
	Units	lbs/day	mg/L	degF	ng/L	ng/L
	Sample Type	CALCULATED	24 HR FLOW PROP	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	WEEKLY	MONTHLY	MONTHLY
Sample Results	- ,					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14	0.002268	240		1.9	1.9
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004		004	004	004	004	
	Description	Combined Proce	ess	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	
		***** 4 5 11		*********	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	www.a.cw		
	Parameter	152		231	480	1352	1353	
	Description	Cyanide, Amena	Cyanide, Amenable H		Temperature Maximum	PFOA	PFOS	
	Units	lbs/day		mg/L	degF	ng/L	ng/L	
Summary Values	Monthly Avg	0.002268		240		1.9	1.9	
	Monthly Total							
	<b>Daily Max</b> 0.002268		240		1.9	1.9		
	Daily Min	0.002268		240		1.9	1.9	
Limit(s) in Effect	Monthly Avg						11	0
	Monthly Total							
	Daily Max	0.37	0				11	0
	Daily Min							
QA/QC Information	LOD					0.81	0.52	
	LOQ					1.9	1.9	
	QC Exceedance	N		N	N	N	N	
	Lab Certification			999580010				

	Sample Point	004	108	108	108	108
	Description	Combined Process WW & GW	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent
	Parameter	1353	211	457	35	35
	Description	PFOS	Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable	Arsenic, Total Recoverable
	Units	mg/day	MGD	mg/L	ug/L	lbs/day
	Sample Type	CALCULATED	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED
	Frequency	MONTHLY	DAILY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14	0.3073611				
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004		108	Т	108	108	108
	Description	Combined Proc WW & GW	ess	GWCTS Effluent	GWCTS Effluent GWCTS Efflu		GWCTS Effluent	GWCTS Effluent
	Parameter	1353		211	457		35	35
	Description	PFOS		Flow Rate			Arsenic, Total Recoverable	Arsenic, Total Recoverable
	Units	mg/day		MGD		mg/L	ug/L	lbs/day
Summary Values	Monthly Avg	0.3073611						
	Monthly Total							
	Daily Max	0.3073611						
	Daily Min	0.3073611						
Limit(s) in Effect	Monthly Avg	2.10	0					
	Monthly Total							
	Daily Max						500	0.17
	Daily Min							
QA/QC Information	LOD			•		•	•	
	LOQ							
	QC Exceedance	N		N		N	N	N
	Lab Certification							

	Sample Point	108	108	108	108
	Description	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent
	Parameter	280	280	1352	1353
	Description	Mercury, Total Recoverable	Mercury, Total Recoverable	PFOA	PFOS
	Units	ng/L	mg/day	ng/L	ng/L
	Sample Type	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1				
	2				
	3				
	<u>4</u> 5				
	6 7				
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20 21				
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				

	Sample Point	108	108	108	108
	Description	GWCTS Effluent	uent GWCTS Effluent GWC		GWCTS Effluent
	Parameter	280	280	1352	1353
	Description	Mercury, Total Recoverable	Mercury, Total Recoverable	PFOA	PFOS
		recoverable	Recoverable		
	Units	ng/L	mg/day	ng/L	ng/L
Summary	Monthly				
Values	Avg				
	Monthly				
	Total				
	Daily Max				
	Daily Min				
Limit(s) in	Monthly				
Effect	Avg				
	Monthly				
	Total				
	Daily Max	24			
	Daily Min				
QA/QC Information	LOD				
	LOQ				
	QC Exceedance	N	N	N	N
	Lab Certification				

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)
General Remarks
SP704 is still not running yet so, no flows or sampling. OF004 is only running SP101 throw it at this time. There is no GW yet. Temperatures are not being taken yet until GW is running. SP108 is not running at this time so, no sampling was done or flow readings Also, no sampling will be taken from SP703 any more
Laboratory Quality Control Comments

DOC: 517360

Submitted by Anne Fleury(afleury16) on 7/17/2023 9:55:19 AM

## **Wastewater Discharge Monitoring Long Report**

Reporting Period: 07/01/2023 - 07/31/2023

Form Due Date: 08/21/2023 Permit Number: 0001040

## For DNR Use Only

Date Received:

DOC: 523433 FIN: 7245 FID: 438039470

Region: Northeast Region

Permit Drafter: Laura K Rodriguez Alvarez

Reviewer: Laura A Gerold

Office: Green Bay

	Sample Point	703	703	101	101	101
	Description	Menominee River Intake	Menominee River Intake	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	211	35	211	373	374
	Description	Flow Rate	Arsenic, Total Recoverable	Flow Rate	pH (Maximum)	pH (Minimum)
	Units	gpd	ug/L	MGD	su	su
	Sample Type	TOT DAILY	GRAB	CONTINUOUS	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	MONTHLY	DAILY	DAILY	DAILY
ample Results	Day 1			0		
	2			0		
	3			0		
	4			0		
	5			0.01248	7.9	7.5
	6			0.01026	7.7	6.8
	7			0.01628	7.6	6.7
	8			0		
	9			0		
	10			0.05446	8.1	7.4
	11			0.04875	7.8	7.4
	12			0.06162	7.8	7.3
	13			0.04214	8.2	7.2
	14			0.02709	7.8	6.9
	15			0		
	16			0		
	17			0.04156	7.8	7.1
	18			0.04640	7.6	6.8
	19			0.03197	7.7	6.9
	20			0.04902	7.6	7.0
	21			0.04392	7.8	7.0
	22			0		
	23			0		
	24			0.04825	7.6	7.0
	25			0.05724	7.5	7.1
	26			0.05274	8.0	7.0
	27			0.05650	8.2	7.0
	28			0.03953	7.8	6.8
	29			0.03933	7.0	0.0
	30			0		
	31			0.05932	7.4	7.1
	31			0.00932	1.4	<u> </u>

Wastewater Discharge Monitoring Form
Facility Name: TYCO FIRE PRODUCTS LP
Reporting Period: 07/01/2023 to 07/31/2023

Permit: 0001040 DOC: 523433

	Sample Point	703	703	101	101	101
	Description	Menominee River Intake	Menominee River Intake	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	211	35	211	373	374
	Description	Flow Rate	Arsenic, Total Recoverable	Flow Rate	pH (Maximum)	pH (Minimum)
	Units	gpd	ug/L	MGD	su	su
Summary Values	Monthly Avg			0.02579129	7.784210526	7.052631579
	Monthly Total					
	Daily Max			0.06162	8.2	7.5
	Daily Min			0	7.4	6.7
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max				9 0	
	Daily Min					6 0
QA/QC Information	LOD	,				
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	101	101	101	101	101
						-
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	379	376	457	651	87
	Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Suspended Solids, Total	Oil & Grease (Hexane)	Cadmium, Total Recoverable
	Units	minutes	Number	mg/L	mg/L	ug/L
	Sample Type	CONTINUOUS	CONTINUOUS	24 HR FLOW PROP	GRAB	24 HR FLOW PROP
	Frequency	DAILY	DAILY	3/WEEK	MONTHLY	MONTHLY
Sample Results						
	2					
	3					
	4					
	5			6.1		
	6			5.4		
	7			5.4		
	8					
	9					
	10			<1.9		
	11			2.1		<0.49
	12			<1.9		
	13				1.4	
	14					
	15					
	16					
	17			5.5		
	18			<1.9		
	19			<1.9		
	20					
	21					
	22					
	23					
	24			<1.9		
	25			<1.9		
	26			<1.9		
	27					
	28					
	29					
	30 31					
	51					

	Sample Point	101		101		101		101		101	
	Description	Metal Finishii Effluent	ng	Metal Finish Effluent	ing	Metal Finish Effluent	ing	Metal Finishing Effluent		Metal Finishing Effluent	
		070		070		457		054		0.7	
	Parameter	379		376		457		651		87	
	Description	pH Total Exceedance Time Minutes		pH Exceedances Greater Than 60 Minutes		Suspended Solids, Total		Oil & Grease (Hexane)		Cadmium, Total Recoverable	
	Units	minutes		Number		mg/L		mg/L		ug/L	
Summary Values	Monthly Avg	2.041666667		1.4		0					
	Monthly Total										
	Daily Max		6.1			1.4		<0.49			
	Daily Min					<1.9		1.4		<0.49	
Limit(s) in Effect	Monthly Avg					31	0	26	0	260	0
	Monthly Total	446	0	0	0						
	Daily Max					60	0	52	0	690	0
	Daily Min										
QA/QC Information	LOD		-		_!		<u> </u>	1.3	!	0.49	
	LOQ	LOQ						4.8		1	
	QC Exceedance	N	N			N		N		N	
	Lab Certification					9995800	10	99958001	10	99958001	10

	Sample Point		1 101	I 1∩1	101 1	101
i i		101	101	101	101	-
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	147	315	553	507	280
	Description	Copper, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Total Toxic Organics	Mercury, Total Recoverable
	Units	ug/L	ug/L	ug/L	ug/L	ng/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	GRAB
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
ample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
İ	9					
	10					
	11	3.8	5.6	70		
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					0.22
	27					<u> </u>
	28					
ŀ	29					
ļ	30					
	31					

	Sample Point	101		101		101		101		101
	Description	Metal Finishir Effluent	ng	Metal Finishi Effluent	ng	Metal Finishing Effluent		Metal Finishing Effluent		Metal Finishing Effluent
	Parameter	147		315		553		507		280
	Description	Copper, Tota	Copper, Total Recoverable				Total Toxic Organics		Mercury, Total Recoverable	
	Units	ug/L		ug/L		ug/L		ug/L	$\neg$	ng/L
Summary Values	Monthly Avg	3.8		5.6		70				0.22
	Monthly Total									
	Daily Max	3.8		5.6		70				0.22
	Daily Min	3.8		5.6		70				0.22
Limit(s) in Effect	Monthly Avg	2070	0	2380	0	1480	0			
	Monthly Total									
	Daily Max	3380	0	3980	0	2610	0	2130		
	Daily Min									
QA/QC Information	LOD	1.7		1.5		3.6				0.2
	LOQ	5		5		10				0.5
	QC Exceedance	N		N		N		N		N
	Lab Certification	99958001	0	99958001	0	9995800	10			999580010

	Sample Point	101	101	101	704	704
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	GWCTS Influent	GWCTS Influent
	Parameter	280	35	35	211	35
	Description	Mercury, Total Recoverable	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Flow Rate	Arsenic, Total Recoverable
	Units	mg/day	ug/L	lbs/day	gpd	ug/L
	Sample Type	CALCULATED	24 HR FLOW PROP	CALCULATED	CONTINUOUS	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	DAILY	WEEKLY
Sample Results	Day 1				0	
	2				0	
	3				0	
	4				0	
	5				0	
	6				0	
	7				0	
	8				0	
	9				0	
	10				0	
	11	0.0439747	<2.1	0.000861	0	
	12				0	
	13				0	
	14				0	
	15				0	
	16				0	
	17				0	
	18				7260	
	19				14710	26000
	20				13145	
	21				6655	
	22				0	
	23				0	
	24				21585	
	25				27960	19000
	26				21040	
	27				11400	
	28				10940	
	29				0	
	30				0	
	31				19285	

	Sample Point	101	101	101	704	704
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	GWCTS Influent	GWCTS Influent
		Lilidelit	Lilidelli	Lilidelit		
	Parameter	280	35	35	211	35
	Description	Mercury, Total	Arsenic, Total	Arsenic, Total	Flow Rate	Arsenic, Total
	2000	Recoverable	Recoverable	Recoverable	l line i rate	Recoverable
	Units	mg/day	ug/L	lbs/day	gpd	ug/L
Summary Values	Monthly Avg	0.0439747	0	0.000861	4967.096774194	22500
	Monthly Total					
	Daily Max	0.0439747	<2.1	0.000861	27960	26000
	Daily Min	0.0439747	<2.1	0.000861	0	19000
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
QA/QC Information	LOD	•	2.1	•		100*Footnote
	LOQ		5			250*Footnote
	QC Exceedance	N	N	N	N	N
	Lab Certification		999580010			999580010

Wastewater Discharge Monitoring Form
Facility Name: TYCO FIRE PRODUCTS LP
Reporting Period: 07/01/2023 to 07/31/2023

<sup>\*</sup>Footnote: QA/QC Information is not identical for each day, so the value shown is the maximum of all values for LOD/LOQ data or the first Lab found for Lab Cert data.

	Sample Point	704	704	107	004	004
	Description	GWCTS Influent	GWCTS Influent	Mercury Field Blank Results	Combined Process WW & GW	Combined Process WW & GW
	Parameter	457	280	280	211	373
	Description	Suspended Solids, Total	Mercury, Total Recoverable	Mercury, Total Recoverable	Flow Rate	pH (Maximum)
	Units	mg/L	ng/L	ng/L	MGD	su
	Sample Type	24 HR FLOW PROP	GRAB	BLANK	CONTINUOUS	CONTINUOUS
	Frequency	WEEKLY	MONTHLY	MONTHLY	DAILY	DAILY
sample Results	Day 1				0	
	2				0	
	3				0	
	4				0	
	5				0	
	6				0	
	7				0	
	8				0	
	9				0	
	10				0	
	11				0	
	12				0	
	13				0	
	14				0	
	15				0	
	16				0	
	17				0	
	18				0.050498	7.5
	19	7.5			0.048016	7.7
	20				0.061104	7.6
	21				0	
	22				0	
	23				0	
	24				0.078792	7.5
	25	33			0.084966	7.6
	26		31	0.38	0.068563	8.3
	27				0.058270	7.7
	28				0.037805	7.7
	29				0	
	30				0	
	31				0.074257	7.6

	Sample Point	704	704	107	004	004
	Description	GWCTS Influent	GWCTS Influent	Mercury Field Blank Results	Combined Process WW & GW	Combined Process WW & GW
	Parameter	457	280	280	211	373
	Description	Suspended Solids, Total	Mercury, Total Recoverable	Mercury, Total Recoverable	Flow Rate	pH (Maximum)
	Units	mg/L	ng/L	ng/L	MGD	su
Summary Values	Monthly Avg	20.25	31	0.38	0.018137774	7.688888889
	Monthly Total					
	Daily Max	33	31	0.38	0.084966	8.3
	Daily Min	7.5	31	0.38	0	7.5
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					9 0
	Daily Min					
QA/QC Information	LOD	·	0.99	0.2		·
	LOQ		2.5	0.5		
	QC Exceedance	N	N	N	N	N
	Lab Certification	999580010	999580010	999580010		

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	374	112	35	35	280
	Description	pH (Minimum)	Chlorine, Total Residual	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Mercury, Total Recoverable
	Units	su	ug/L	ug/L	lbs/day	ng/L
	Sample Type	CONTINUOUS	GRAB	24 HR FLOW PROP	CALCULATED	GRAB
	Frequency	DAILY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18	6.4				
	19	7.0				
	20	6.5				
	21					
	22					
	23					
	24	6.0				
	25	6.7		<2.1	0.001008	0.23
	26	6.3	<10			
	27	6.5				
	28	6.6				
	29					
	30					
	31	6.3				

	Sample Point	004		004		004		004		004	
	Description	Combined Proc WW & GW	ess	Combined Pro		Combined Pro WW & GV		Combined Pro WW & GV		Combined Proc WW & GW	
	Parameter	374		112		35		35		280	
	Description	pH (Minimum	1)	Chlorine, To Residual	tal	Arsenic, To Recoverab		Arsenic, To Recoverab		Mercury, Tot Recoverabl	
	Units	su		ug/L		ug/L		lbs/day		ng/L	$\overline{}$
Summary Values	Monthly Avg	6.4777777	78	0		0		0.00100	8	0.23	
	Monthly Total										
	Daily Max	7		<10		<2.1		0.00100	8	0.23	
	Daily Min	6		<10		<2.1		0.00100	8	0.23	
Limit(s) in Effect	Monthly Avg			38	0						
	Monthly Total										
	Daily Max			38	0	194	0	0.22	0	18	0
	Daily Min	6	0								
QA/QC Information	LOD			30	Į	2.1				0.2	
	LOQ			100		5				0.5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification					9995800	10			99958001	0

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW    Combined Process WW & GW				
	Parameter	280	87	87	147	147
	Description	Mercury, Total Recoverable	Cadmium, Total Recoverable	Cadmium, Total Recoverable	Copper, Total Recoverable	Copper, Total Recoverable
	Units	mg/day	ug/L	lbs/day	ug/L	lbs/day
	Sample Type	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
ample Results						
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25		<0.49	0.0003479	4.6	0.003266
	26	0.05976642				
	27					
	28					
	29					
	30					
	31					

	Sample Point	004	004		004		004		004	
	Description	Combined Process WW & GW	Combined Proce	ess	Combined Pro WW & GW		Combined Pro WW & GW		Combined Pro	
		3. 3						,		
	Parameter	280	87		87		147		147	$\overline{}$
	Description	Mercury, Total Recoverable	Cadmium, Tota Recoverable	al	Cadmium, To Recoverabl		Copper, Tot Recoverabl		Copper, Tot Recoverabl	
	Units	mg/day	ug/L		lbs/day		ug/L		lbs/day	
Summary Values	Monthly Avg	0.05976642	0		0.000347	9	4.6		0.003266	;
	Monthly Total									
	Daily Max	0.05976642	<0.49		0.000347	9	4.6		0.003266	;
	Daily Min	0.05976642	<0.49		0.000347	9	4.6		0.003266	3
Limit(s) in Effect	Monthly Avg		57	0			69	0		
	Monthly Total									
	Daily Max		57	0	0.23	0	69	0	0.28	0
	Daily Min									
QA/QC Information	LOD	•	0.49	<b>.</b>			1.7			
	LOQ		1				5			
	QC Exceedance	N	N		N		N		N	
	Lab Certification		999580010	)			99958001	0		

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	315	315	553	553	152
	Description	Nickel, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Zinc, Total Recoverable	Cyanide, Amenable
	Units	ug/L	lbs/day	ug/L	lbs/day	ug/L
	Sample Type	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17 18					
	19					
•	20					
	21					
	22					
	23					
	24					
	25	1.7	0.001207	41	0.02911	<3.6
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004		004		004		004		004	
	Description	Combined Prod WW & GW		Combined Prod WW & GW		Combined Pro WW & GV		Combined Pro WW & GV		Combined Pro WW & GV	
	Parameter	315		315		553		553		152	
	Description	Nickel, Tota Recoverable		Nickel, Tota Recoverabl		Zinc, Tota Recoverab		Zinc, Tota Recoverab		Cyanide, Ame	nable
	Units	ug/L		lbs/day		ug/L		lbs/day		ug/L	
Summary Values	Monthly Avg	1.7		0.001207	7	41		0.02911	l	0	
	Monthly Total										
	Daily Max	1.7		0.001207	7	41		0.02911		<3.6	
	Daily Min	1.7		0.001207	7	41		0.02911	l	<3.6	
Limit(s) in Effect	Monthly Avg	2000	0			520	0			92	0
	Monthly Total										
	Daily Max	2000	0	8.10	0	520	0	2.10	0	92	0
	Daily Min										
QA/QC Information	LOD	1.5			-	3.6	-		-	3.6	
	LOQ	5				10				50	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	99958001	0			9995800	10			9995800	10

	Sample Point	004	004	004	004	004
	Description	Combined Process	Combined Process	Combined Process	Combined Process	Combined Process
	Description	WW & GW	WW & GW	WW & GW	WW & GW	WW & GW
	Parameter	152	231	480	1352	1353
	Description	Cyanide, Amenable	Hardness, Total as CaCO3	Temperature Maximum	PFOA	PFOS
	Units	lbs/day	mg/L	degF	ng/L	ng/L
	Sample Type	CALCULATED	24 HR FLOW PROP	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	WEEKLY	MONTHLY	MONTHLY
Sample Results						
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10 11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25	0.002556	280		1.2	0.96
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004		004	004	004	004	
	Description	Combined Proce	ess	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Proc WW & GW	ess
		www.a.ow		www.a.gw	WWW & GW	WWW & GW	, , , , , , , , , , , , , , , , , , ,	
	Parameter	152		231	480	1352	1353	-
	Description	Cyanide, Amena	able	Hardness, Total as CaCO3	Temperature Maximum	PFOA	PFOS	
	Units	lbs/day		mg/L	degF	ng/L	ng/L	
Summary Values	Monthly Avg	0.002556		280		1.2	0.96	
	Monthly Total							
	Daily Max	0.002556		280		1.2	0.96	
	Daily Min	0.002556		280		1.2	0.96	
Limit(s) in Effect	Monthly Avg						11	0
	Monthly Total							
	Daily Max	0.37	0				11	0
	Daily Min							
QA/QC Information	LOD					0.72	0.46	
	LOQ					1.7	1.7	
	QC Exceedance	N		N	N	N	N	
	Lab Certification			999580010				

	Sample Point	004	108	108	108	108
	Description	Combined Process WW & GW	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent
	Parameter	1353	211	457	35	35
	Description	PFOS	Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable	Arsenic, Total Recoverable
	Units	mg/day	MGD	mg/L	ug/L	lbs/day
	Sample Type	CALCULATED	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED
	Frequency	MONTHLY	DAILY	WEEKLY	WEEKLY	WEEKLY
ample Results	Day 1		0			
	2		0			
	3		0			
	4		0			
	5		0			
	6		0			
	7		0			
	8		0			
	9		0			
	10		0			
	11		0			
	12		0			
	13		0			
	14		0			
	15		0			
	16		0			
	17		0			
	18		0.003393			
	19		0.011556	<1.9	<2.1	0.000378
	20		0.007799			
	21		0.005399			
	22		0			
	23		0			
	24		0.014657			
	25	0.30914016	0.021996	<1.9	4.3	
	26		0.012808			
	27		0.008965			
	28		0.007285			
	29		0			
	30		0			
	31		0.0132270			

	Sample Point	004		108	108	108		108	
	Description	Combined Proce WW & GW	ess	GWCTS Effluent	GWCTS Effluent	GWCTS Effluen	it	GWCTS Efflu	ent
	Parameter	1353		211	457	35		35	
	Description	PFOS		Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable		Arsenic, Total Recoverable	
	Units	mg/day		MGD	mg/L	ug/L		lbs/day	
Summary Values	Monthly Avg	0.30914016		0.003454355	0	2.15		0.000378	}
	Monthly Total								
	Daily Max	0.30914010	0.30914016		<1.9	4.3		0.000378	
	Daily Min	0.30914010	6	0	<1.9	<2.1		0.000378	
Limit(s) in Effect	Monthly Avg	2.10	0						
	Monthly Total								
	Daily Max					500	0	0.17	0
	Daily Min								
QA/QC Information	LOD					2.1			
	LOQ					5			
	QC Exceedance	N		N	N	N		N	
	Lab Certification				999580010	999580010			

Description         GWCTS Effluent         GWCTS Effluent         GWCTS Effluent           Parameter         280         280         1352         1353           Description         Mercury, Total Recoverable         Mercury, Total Recoverable         PFOA         PFOS           Units         ng/L         mg/day         ng/L         ng/L           Sample Type         24 HR FLOW PROP         CALCULATED         24 HR FLOW PROP         24 HR FLOW PROP           Frequency         MONTHLY         MONTHLY         MONTHLY         MONTHLY						
Parameter   280   280   1352   1353     Description   Mercury, Total   Recoverable   Recoverable   Recoverable   PFOA   PFOS		Sample Point				
Description   Mercury, Total   Recoverable   Recoverable		Description	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent
Description   Mercury, Total   Recoverable   Recoverable						
Description   Mercury, Total   Recoverable   Recoverable						
Recoverable						
Units ng/L mg/day ng/L ng/L Sample Type 24 HR FLOW PROP CALCULATED 24 HR FLOW PROP 24 HR FLOW PROP  Frequency MONTHLY MONTHLY MONTHLY MONTHLY  2 3 4 4 5 6 6 6 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		Description	Mercury, Total	Mercury, Total	PFOA	PFOS
Sample Type   24 HR FLOW PROP   CALCULATED   24 HR FLOW PROP   24 HR FLOW PROP			Recoverable	Recoverable		
Sample Type   24 HR FLOW PROP   CALCULATED   24 HR FLOW PROP   24 HR FLOW PROP		Units	ng/L	mg/day	ng/L	na/L
Frequency   MONTHLY   MONTHLY   MONTHLY						
Sample Results    Day 1						
2 3 4 5 5 6 7 7 8 8 9 9 10 10 11 1 12 12 13 13 14 14 15 15 16 16 17 18 18 19 < <0.72 <0.46 20 21 1 22 2 2 2 3 2 4 2 25 26 <0.20 0.0097084 27 28 29 30 30		Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY
3 4 5 6 6 7 7 8 8 9 9 10 10 11 1 11 1 12 12 13 13 14 14 15 15 16 16 17 18 18 19 < 0.72 < 0.46 20 21 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sample Results	Day 1				
4		2				
5 6 7 8 9 10 10 11 1 12 13 14 15 16 16 17 18 19		3				
5 6 7 8 9 10 10 11 1 12 13 14 15 16 16 17 18 19						
7 8 9 10 11 11 12 13 14 15 16 17 18 19 < <0.72 <0.46  20 21 22 23 24 25 26 < <0.20 0.0097084  27 28 29 30		5				
7 8 9 10 11 11 12 13 14 15 16 17 18 19 < <0.72 <0.46  20 21 22 23 24 25 26 < <0.20 0.0097084  27 28 29 30		6				
8       9         10       11         11       12         13       14         15       16         17       18         19       <0.72         20       21         22       23         24       25         26       <0.20       0.0097084         27       28         29       30						
9 10 11 11 12 13 14 15 16 17 18 19						
10 11 12 13 14 15 16 17 18 19						
11						
12 13 14 15 16 17 18 19 < <0.72   <0.46 20 21 21 22 23 24 25 26   <0.20   0.0097084 27 28 29 30						
13 14 15 16 17 18 19 < <0.72 <0.46 20 21 22 23 24 25 26 <0.20 0.0097084 27 28 29 30						
14 15 16 17 18 19 20 21 22 23 24 25 26                      <						
15 16 17 18 19 < <0.72 < <0.46 20 21 22 23 24 25 26 < <0.20 0.0097084 27 28 29 30						
16 17 18 19 < 0.72 20 21 22 23 24 25 26 < < 0.20 0.0097084 27 28 29 30						
17       18         19       <0.72       <0.46         20          21           22           23           24           25           26       <0.20       0.0097084         27           28           29           30						
18       <0.72       <0.46         20        <0.46         21           22           23           24           25           26       <0.20       0.0097084         27           28           29           30						
19						
20 21 22 23 24 25 26 <0.20 0.0097084 27 28 29 30					10.70	10.10
21         22         23         24         25         26       <0.20         0.0097084         27         28         29         30					<0.72	<0.46
22						
23 24 25 26 <0.20						
24         25         26       <0.20       0.0097084         27         28         29       30						
25 26 <0.20 0.0097084  27 28 29 30						
26       <0.20       0.0097084         27						
27 28 29 30						
28 29 30			<0.20	0.0097084		
29 30						
30						
31						
		31				

	Sample Point	108		108	108	108
	Description	GWCTS Efflue	nt	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent
	Parameter	280		280	1352	1353
	Description	Mercury, Total Recoverable		Mercury, Total Recoverable	PFOA	PFOS
	Units	ng/L		mg/day	ng/L	ng/L
Summary Values	Monthly Avg	0		0.0097084	0	0
	Monthly Total					
	Daily Max	<0.2		0.0097084	<0.72	<0.46
	Daily Min	<0.2		0.0097084	<0.72	<0.46
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max	24	0			
	Daily Min					
QA/QC Information	LOD	0.2			0.72	0.46
	LOQ	0.5			1.7	1.7
	QC Exceedance	N		N	N	N
	Lab Certification	999580010	)			

	Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)
_aboratory Quality Control Comments	General Remarks
Laboratory Quality Control Comments	
	Laboratory Quality Control Comments

DOC: 523433

Submitted by Anne Fleury(afleury16) on 8/21/2023 11:17:46 AM

## **Wastewater Discharge Monitoring Long Report**

Reporting Period: 08/01/2023 - 08/31/2023

Form Due Date: 09/21/2023 Permit Number: 0001040

## For DNR Use Only

Date Received:

DOC: 523434 FIN: 7245 FID: 438039470

Region: Northeast Region

Permit Drafter: Laura K Rodriguez Alvarez

Reviewer: Laura A Gerold

Office: Green Bay

	Sample Point	703	703	101	101	101
	Description Description	Menominee River	Menominee River	Metal Finishing	Metal Finishing	Metal Finishing
	Description	Intake	Intake	Effluent	Effluent	Effluent
	Parameter	211	35	211	373	374
	Description	Flow Rate	Arsenic, Total	Flow Rate	pH (Maximum)	pH (Minimum)
			Recoverable			
	Units	gpd	ug/L	MGD	su	su
	Sample Type	TOT DAILY	GRAB	CONTINUOUS	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	MONTHLY	DAILY	DAILY	DAILY
Sample Results	Day 1			0.063970	7.5	7.2
	2			0.066498	7.5	7.2
	3			0.045554	7.9	7.1
	4			0.047770	8.0	7.1
	5			0		
	6			0		
	7			0.058932	8.2	7.4
	8			0.067499	7.8	7.4
	9			0.067237	7.9	7.5
	10			0.058669	8.1	7.6
	11			0.054662	7.9	7.4
	12			0.022266	7.9	7.6
	13			0	7.0	1.0
	14			0.057968	8.3	7.8
	15			0.064162	8.1	7.7
	16			0.053364	8.4	7.2
	17			0.054067	8.5	7.4
	18			0.038403	8.2	7.6
	19			0	V.=	
	20			0		
	21			0.047791	8.3	7.2
	22			0.048198	8.4	7.6
	23			0.064592	8.4	7.7
	24			0.067149	8.5	7.8
	25			0.051338	8.4	7.5
	26			0.012979	8.2	7.2
	27			0		· ·
	28			0.052448	8.1	7.5
	29			0.063959	7.8	7.2
	30			0.061919	7.7	7.2
	31			0.057594	7.8	7.1
				0.007004	1.0	1.1

Wastewater Discharge Monitoring Form
Facility Name: TYCO FIRE PRODUCTS LP
Reporting Period: 08/01/2023 to 08/31/2023

Permit: 0001040 DOC: 523434

	Sample Point	703	703	101	101	101	
	Description	Menominee River Intake	Menominee River Intake	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	
	Parameter	211	35	211	373	374	
	Description	Flow Rate	Arsenic, Total Recoverable	Flow Rate	pH (Maximum)	pH (Minimum)	
	Units	gpd	ug/L	MGD	su	su	
Summary Values	Monthly Avg			0.043515742	8.072	7.408	
	Monthly Total						
	Daily Max			0.067499	8.5	7.8	
	Daily Min			0	7.5	7.1	
Limit(s) in Effect	Monthly Avg						
	Monthly Total						
	Daily Max				9 0		
	Daily Min					6 0	
QA/QC Information	LOD						
	LOQ						
	QC Exceedance	N	N	N	N	N	
	Lab Certification						

	Sample Point	101	101	101	101	101
	Description	Metal Finishing	Metal Finishing	Metal Finishing	Metal Finishing	Metal Finishing
		Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	379	376	457	651	87
	Description	pH Total Exceedance Time Minutes	pH Exceedances Greater Than 60 Minutes	Suspended Solids, Total	Oil & Grease (Hexane)	Cadmium, Total Recoverable
	Units	minutes	Number	mg/L	mg/L	ug/L
	Sample Type	CONTINUOUS	CONTINUOUS	24 HR FLOW PROP	GRAB	24 HR FLOW PROP
	Frequency	DAILY	DAILY	3/WEEK	MONTHLY	MONTHLY
Sample Results	Day 1			<1.9		
	2			<1.9		
	3			<1.9		
	4					
	5					
	6					
	7 8			<1.9		
	9			<1.9		
	10			<1.9	<1.3	<0.49
	11			11.5	11.0	10.43
	12					
	13					
	14					
	15			<1.9		
	16					
	17			<1.9		
	18					
	19					
	20					
	21			<1.9		
	23			<1.9		
	24			<1.9		
	25			11.5		
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101	I	101	
	Description	Metal Finishir Effluent	ng	Metal Finishi Effluent	ng	Metal Finishing Effluent		Metal Finish Effluent	ing	Metal Finishing Effluent	
								651			
	Parameter	379		376			457			87	
	Description	pH Total Exceed Time Minute		pH Exceedan Greater Than Minutes		Suspended Se Total			exane)	Cadmium, Total Recoverable	
	Units	minutes		Number		mg/L		mg/L		ug/L	
Summary Values	Monthly Avg					0		0		0	
	Monthly Total										
	Daily Max					<1.9		<1.3		<0.49	
	Daily Min					<1.9		<1.3		<0.49	
Limit(s) in Effect	Monthly Avg					31	0	26	0	260	0
	Monthly Total	446	0	0	0						
	Daily Max					60	0	52	0	690	0
	Daily Min										
QA/QC Information	LOD		ļ		Į .		Į	1.3	!	0.49	
	LOQ							4.8		1	
	QC Exceedance	N	N I			N		N		N	
	Lab Certification					9995800	10	999580010		999580010	

	Sample Point	101	101	101	101	101
	Description	Metal Finishing	Metal Finishing	Metal Finishing	Metal Finishing	Metal Finishing
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	147	315	553	507	280
	Description	Copper, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Total Toxic Organics	Mercury, Total Recoverable
	Units	ug/L	ug/L	ug/L	ug/L	ng/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	GRAB
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
ample Results						
	2					
	3					
	4					
	5 6					
	7					
	8					
	9					
	10	4.3	4.5	29		
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19 20					
	21					
	22					
	23					0.33
	24					
	25					
	26					
	27	-				
	28					
	29					
	30					
	31					

	Sample Point	101		101		101		101	101
	Description	Metal Finishir Effluent	ng	Metal Finishi Effluent	ng	Metal Finishi Effluent	ing	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	147		315		553		507	280
	Description	Copper, Tota	Copper, Total Recoverable		al e	Zinc, Tota Recoverabl		Total Toxic Organic	
	Units	ug/L		ug/L		ug/L		ug/L	ng/L
Summary Values	Monthly Avg	4.3		4.5		29			0.33
	Monthly Total								
	Daily Max	4.3	4.3			29			0.33
	Daily Min	4.3		4.5	4.5				0.33
Limit(s) in Effect	Monthly Avg	2070	0	2380	0	1480	0		
	Monthly Total								
	Daily Max	3380	0	3980	0	2610	0	2130	
	Daily Min								
QA/QC Information	LOD	1.7	'	1.5		3.6			0.2
	LOQ	5		5		10			0.5
	QC Exceedance	N		N		N		N	N
	Lab Certification	99958001	0	99958001	999580010		999580010		999580010

	Sample Point	101	101	101	704	704
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	GWCTS Influent	GWCTS Influent
	Parameter	280	35	35	211	35
	Description	Mercury, Total Recoverable	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Flow Rate	Arsenic, Total Recoverable
	Units	mg/day	ug/L	lbs/day	gpd	ug/L
	Sample Type	CALCULATED	24 HR FLOW PROP	CALCULATED	CONTINUOUS	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	DAILY	WEEKLY
Sample Results	Day 1				22105	23000
	2				27260	
	3				15955	
	4				6510	
	5				0	
	6				0	
	7				0	
	8				0	
	9				0	
	10		<2.1	0.001029	0	
	11				0	
	12				0	
	13				0	
	14				13440	
	15				5770	
	16				14370	
	17				29690	12000
	18				13910	1
	19				13910	
	20				13910	
	21				17455	
	22				24875	16000
	23	0.08078532			24685	10000
	24	0.000.000_			17630	
	25				0	
	26				0	
	27				0	<del> </del>
	28				11985	
	29				12025	
	30		+		18205	
	31				14420	
	งา				14420	

Permit: 0001040 DOC: 523434

	Sample Point	101	101	101	704	704
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	GWCTS Influent	GWCTS Influent
	Parameter	280	35	35	211	35
	Description	Mercury, Total Recoverable	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Flow Rate	Arsenic, Total Recoverable
	Units	mg/day	ug/L	lbs/day	gpd	ug/L
Summary Values	Monthly Avg	0.08078532	0	0.001029	10261.612903226	17000
	Monthly Total					
	Daily Max	0.08078532	<2.1	0.001029	29690	23000
	Daily Min	0.08078532	<2.1	0.001029	0	12000
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
QA/QC Information	LOD	,	2.1	•		10
	LOQ		5			250
	QC Exceedance	N	N	N	N	N
	Lab Certification		999580010			999580010

	Sample Point	704	704	107	004	004
	Description	GWCTS Influent	GWCTS Influent	Mercury Field Blank Results	Combined Process WW & GW	Combined Process WW & GW
	Parameter	457	280	280	211	373
	Description	Suspended Solids, Total	Mercury, Total Recoverable	Mercury, Total Recoverable	Flow Rate	pH (Maximum)
	Units	mg/L	ng/L	ng/L	MGD	su
	Sample Type	24 HR FLOW PROP	GRAB	BLANK	CONTINUOUS	CONTINUOUS
	Frequency	WEEKLY	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1	33			0.080590	7.67
	2				0.086141	7.64
	3				0.079331	7.55
	4				0.036901	7.85
	5				0	
	6				0	
	7				0	
	8				0	
	9				0	
	10				0	
	11				0	
	12				0	
	13				0	
	14				0.069921	6.9
	15				0.063501	6.84
	16				0.064982	7.51
	17	27			0.075685	8.0
	18				0.048079	7.8
	19				0	
	20				0.000005	6.65
	21				0.063300	7.81
	22	22			0.070515	7.9
	23		20	0.55	0.081225	8.38
	24		<del>-</del>		0.080319	
	25				0	
	26				0	
	27				0	
	28				0.067469	8.0
	29				0.073918	7.29
	30				0.077698	7.45
	31				0.070030	7.71

	Sample Point	704	704	107	004	004
	Description	GWCTS Influent	GWCTS Influent	Mercury Field Blank Results	Combined Process WW & GW	Combined Process WW & GW
	Parameter	457	280	280	211	373
	Description	Suspended Solids, Total	Mercury, Total Recoverable	Mercury, Total Recoverable	Flow Rate	pH (Maximum)
	Units	mg/L	ng/L	ng/L	MGD	su
Summary Values	Monthly Avg	27.333333333	20	0.55	0.038374516	7.585294118
	Monthly Total					
	Daily Max	33	20	0.55	0.086141	8.38
	Daily Min	22	20	0.55	0	6.65
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					9 0
	Daily Min					
QA/QC Information	LOD		0.2	0.2	•	
	LOQ		0.5	0.5		
	QC Exceedance	N	N	N	N	N
	Lab Certification	999580010	999580010	999580010		

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW
	Parameter	374	112	35	35	280
	Description	pH (Minimum)	Chlorine, Total Residual	Arsenic, Total Recoverable	Arsenic, Total Recoverable	Mercury, Total Recoverable
	Units	su	ug/L	ug/L	lbs/day	ng/L
	Sample Type	CONTINUOUS	GRAB	24 HR FLOW PROP	CALCULATED	GRAB
	Frequency	DAILY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1	6.43				
	2	6.68				
	3	6.54				
	4	6.1				
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14	6.3				
	15	6.35				
	16	6.1				
	17	6.4		<2.1	0.001323	
	18	6.3				
	19					
	20	6.4				
	21	6.1				
	22	6.1				
	23	6.37				<0.20
	24		<10			
	25					
	26					
	27					
	28	6.1				
	29	6.1				
	30	6.1				
	31	6.1				

	Sample Point	004		004		004		004		004	
	Description	Combined Proc WW & GW	ess	Combined Pro WW & GW		Combined Pro WW & GV		Combined Pro WW & GV		Combined Proc WW & GW	
	Parameter	374		112		35		35		280	
	Description	pH (Minimum	1)	Chlorine, Total Residual		Arsenic, Total Recoverable		Arsenic, Total Recoverable		Mercury, Total Recoverable	
	Units	su	su 6.268823529			ug/L		lbs/day		ng/L	
Summary Values	Monthly Avg	6.26882352				0		0.001323		0	
	Monthly Total										
	Daily Max	6.68	6.68			<2.1		0.001323		<0.2	
	Daily Min	6.1	6.1		<10			0.001323		<0.2	
Limit(s) in Effect	Monthly Avg			38	0						$\prod$
	Monthly Total										
	Daily Max			38	0	194	0	0.22	0	18	0
	Daily Min	6	0								
QA/QC Information	LOD		1	30		2.1				0.2	
	LOQ					5				0.5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification					9995800	10			99958001	0

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW    Combined Process WW & GW				
	Parameter	280	87	87	147	147
	Description	Mercury, Total Recoverable	Cadmium, Total Recoverable	Cadmium, Total Recoverable	Copper, Total Recoverable	Copper, Total Recoverable
	Units	mg/day	ug/L	lbs/day	ug/L	lbs/day
	Sample Type	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17		<0.49	0.0003087	5.9	0.003717
	18					
	19					
	20					
	21					
	22					
	23	0.1354832				
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	004	004		004		004		004	
	Description	Combined Process WW & GW	Combined Proce WW & GW	ss	Combined Pro		Combined Pro-		Combined Prod WW & GW	
	Parameter	280	87		87		147		147	
	Description	Mercury, Total Recoverable	Cadmium, Tota Recoverable	ıl	Cadmium, To Recoverabl		Copper, Tot Recoverabl		Copper, Tota Recoverable	
	Units	mg/day	ug/L		lbs/day		ug/L		lbs/day	
Summary Values	Monthly Avg	0.1354832	0		0.000308	7	5.9		0.003717	,
	Monthly Total									
	Daily Max	0.1354832	<0.49		0.000308	7	5.9		0.003717	,
	Daily Min	0.1354832	<0.49	<0.49		0.0003087			0.003717	,
Limit(s) in Effect	Monthly Avg		57	0			69	0		
	Monthly Total									
	Daily Max		57	0	0.23	0	69	0	0.28	0
	Daily Min									
QA/QC Information	LOD	·	0.49				1.7	•		
	LOQ		1				5			
	QC Exceedance	N	N		N		N		N	
	Lab Certification		999580010	999580010			99958001	0		

Description							•
Parameter   315   315   553   553   152		Sample Point	004	004	004	004	004
Description   Nickel, Total   Recoverable   Recoverable		Description	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW		Combined Process WW & GW
Description   Nickel, Total   Recoverable   Recoverable		Parameter	315	315	553	553	152
Sample Type   24 HR FLOW PROP   CALCULATED   24 HR FLOW PROP   MONTHLY			Nickel, Total	Nickel, Total	Zinc, Total	Zinc, Total	Cyanide, Amenable
Sample Type   24 HR FLOW PROP   CALCULATED   24 HR FLOW PROP   MONTHLY		Units	ua/l	lhs/day	ua/l	lbs/day	ua/l
Sample Results    Day 1							24 HR FLOW PROP
2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
3 4 5 5 6 6 7 7 8 8 9 9 10 11 1 11 12 12 13 13 14 14 15 15 16 16 17 2.0 0.00126 17 0.01071 <5.0 18 19 20 21 22 22 23 24 25 26 27 28 29 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Sample Results	Day 1					
4		2					
5       6         7       8         9       9         10       11         11       12         13       14         15       16         17       2.0       0.00126       17       0.01071       <5.0         18       19       20       21       22       23       24       25       26       27       28       29       29       20       20       20       20       20       20       21       22       23       24       25       26       27       28       29       29       20							
6							
7 8 9 10 11 11 12 13 14 15 16 17 2.0 0.00126 17 0.01071 <5.0 18 19 20 21 22 23 23 24 25 26 27 28 29							
8 9 10 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
9 10							
10 11 12 13 14 15 16 17 2.0 0.00126 17 0.01071 <5.0 18 19 20 21 21 22 23 24 25 26 27 28 29							
11       12         13          14          15          16          17       2.0       0.00126       17       0.01071       <5.0         18           19            20            21            22            23            24            25            26            27            28            29							
12							
13 14 15 16 17 2.0 0.00126 17 0.01071 <5.0  18 19 20 21 21 22 23 24 25 26 27 28 29							
15							
16       17       2.0       0.00126       17       0.01071       <5.0         18       19   <		14					
17     2.0     0.00126     17     0.01071     <5.0       18     19       20     21       22     23       24     25       26     27       28     29		15					
18       19         20       21         21       22         23       24         25       26         27       28         29       29		16					
19 20 21 22 23 24 25 26 27 28 29		17	2.0	0.00126	17	0.01071	<5.0
20       ————————————————————————————————————							
21       22       23       24       25       26       27       28       29							
22       23       24       25       26       27       28       29							
23							
24       25       26       27       28       29							
25 26 27 28 29							
26 27 28 29							
27 28 29							
28 29							
29							
		30					
31							

	Sample Point	004		004		004		004		004	
	Description	Combined Proc WW & GW		Combined Prod WW & GW		Combined Pro WW & GV		Combined Pro WW & GV		Combined Pro WW & GV	
							•				
	Parameter	315		315		553		553		152	
	Description	Nickel, Tota Recoverable		Nickel, Tota Recoverable		Zinc, Tota Recoverab		Zinc, Tota Recoverab		Cyanide, Ame	nable
	Units	ug/L	2 2			ug/L		lbs/day		ug/L	
Summary Values	Monthly Avg				0.00126		17		1	0	
	Monthly Total										
	Daily Max	2				17		0.01071		<5	
	Daily Min	2		0.00126		17		0.01071		<5	
Limit(s) in Effect	Monthly Avg	2000	0			520	0			92	0
	Monthly Total										
	Daily Max	2000	0	8.10	0	520	0	2.10	0	92	0
	Daily Min										
QA/QC Information	LOD	1.5	1.5 5 N 999580010			3.6				5	
	LOQ	5				10				10	
	QC Exceedance	N				N		N		N	
	Lab Certification	99958001				9995800	10			9995800	10

	Sample Point	004	004	004	004	004
	Description	Combined Process WW & GW				
	Parameter	152	231	480	1352	1353
	Description	Cyanide, Amenable	Hardness, Total as CaCO3	Temperature Maximum	PFOA	PFOS
	Units	lbs/day	mg/L	degF	ng/L	ng/L
	Sample Type	CALCULATED	24 HR FLOW PROP	MEASURE	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	WEEKLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2			96		
	3			99		
	4			98		
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14			85		
	15			99		
	16			101		
	17	0.00315	310	102	1.5	1.0
	18			96		
	19					
	20			82		
	21			91		
	22			91		
	23					
	24					
	25					
	26					
	27					
	28			95		
	29			93		
	30			89		
	31					

	Sample Point	004		004	004	004	004	
	Description	Combined Proce	ess	Combined Process WW & GW	Combined Process WW & GW	Combined Process WW & GW	Combined Prod WW & GW	
		***************************************						
	Parameter	152		231	480	1352	1353	
	Description	Cyanide, Amena	yanide, Amenable Hai		Temperature Maximum	PFOA	PFOS	
	Units	lbs/day		mg/L	degF	ng/L	ng/L	
Summary Values	Monthly Avg	0.00315			94.071428571	1.5	1	
	Monthly Total							
	Daily Max	0.00315		310	102	1.5	1	
	Daily Min	0.00315	0.00315		82	1.5	1	
Limit(s) in Effect	Monthly Avg						11	0
	Monthly Total							
	Daily Max	0.37	0				11	0
	Daily Min							
QA/QC Information	LOD		•	1		0.74	0.47	
	LOQ					1.7	1.7	
	QC Exceedance	N	N 99		N	N	N	
	Lab Certification							

	Sample Point	004	108	108	108	108
	Description	Combined Process WW & GW	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent
	Parameter	1353	211	457	35	35
	Description	PFOS	Flow Rate	Suspended Solids, Total	Arsenic, Total Recoverable	Arsenic, Total Recoverable
	Units	mg/day	MGD	mg/L	ug/L	lbs/day
	Sample Type	CALCULATED	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED
	Frequency	MONTHLY	DAILY	WEEKLY	WEEKLY	WEEKLY
Sample Results	Day 1		0.018395	<1.9	2.2	0.00033
	2		0.019566			
	3		0.014261			
	4		0.006211			
	5		0			
	6		0			
	7		0			
	8		0			
-	9		0			
	10		0			
	11		0			
	12		0			
	13		0			
	14		0.007391			
	15		0.000701			
	16		0.011232			
	17	0.026846	0.022910	<1.9	8.2	0.001558
	18		0.010309			
	19		0			
	20		0			
	21		0.013715			
	22		0.020870	<1.9	2.6	0.000442
	23		0.017235			
	24		0.013799			
	25		0			
	26		0			
	27		0			
	28		0.009854			
	29		0.008803			
	30		0.015103			
	31		0.011605			

	Sample Point	004		108	108	108		108	
	Description	Combined Proce WW & GW	ess	GWCTS Effluent	GWCTS Effluent	GWCTS Effluen	t	GWCTS Efflue	∍nt
	Parameter	1353		211	457	35		35	
	Description	PFOS	mg/day 0.026846		Suspended Solids, Total	Arsenic, Total Recoverable		Arsenic, Total Recoverable	
	Units	mg/day			mg/L	ug/L 4.333333333		lbs/day	
Summary Values	Monthly Avg	0.026846			0			0.000776667	
	Monthly Total								
	Daily Max	0.026846	0.026846 0.026846		<1.9	8.2		0.001558	
	Daily Min	0.026846			<1.9	2.2		0.00033	
Limit(s) in Effect	Monthly Avg	2.10	0						
	Monthly Total								
	Daily Max					500	0	0.17	0
	Daily Min								
QA/QC Information	LOD			•		2.1			
	LOQ					5			
	QC Exceedance	N	N		N	N		N	
	Lab Certification				999580010	999580010			

	Sample Point	108	108	108	108
	Description	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent
	Parameter	280	280	1352	1353
	Description	Mercury, Total	Mercury, Total	PFOA	PFOS
		Recoverable	Recoverable		
	Units	ng/L	mg/day	ng/L	ng/L
	Sample Type	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1				
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17			<0.72	<0.46
	18				
	19				
	20				
	21				
	22				
	23	<0.20	0.0130642		
	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	J 1				

	Sample Point	108		108	108	108
	Description	GWCTS Effluer	nt	GWCTS Effluent	GWCTS Effluent	GWCTS Effluent
	Parameter	280		280	1352	1353
	Description	Mercury, Total Recoverable	l	Mercury, Total Recoverable	PFOA	PFOS
	Units	ng/L		mg/day	ng/L	ng/L
Summary Values	Monthly Avg	0		0.0130642	0	0
	Monthly Total					
	Daily Max	<0.2		0.0130642	<0.72	<0.46
	Daily Min	<0.2		0.0130642	<0.72	<0.46
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max	24	0			
	Daily Min					
QA/QC Information	LOD	0.2			0.72	0.46
	LOQ	0.5			1.7	1.7
	QC Exceedance	N		N	N	N
	Lab Certification	999580010	١			

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)
General Remarks
The sampler was not working properly the second day of the third week of sampling for TSS at SP101 so, there is only 2 results that week.
SP704, SP108 & OF004 were shut down the whole second week so, there are no samples taken. Jacobs could not be here
on site and we were not trained yet. Min. & Max. pH at OF004 were missed on 8/24/23 also by Jacobs.
Laboratory Quality Control Comments

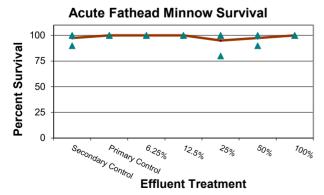
Submitted by Anne Fleury(afleury16) on 9/21/2023 12:09:56 PM

### WHOLE EFFLUENT TOXICITY (WET) TEST REPORT FORM

			GENERAL												
Г	FACILITY:	Tyco Fire Protect	tion Products	WPE	DES PERM	ЛІТ NO.:	WI-0001	040	)-08-0						
OUT	FALL NO.:	004		LABO	DRATORY	/ NAME:	ECT-Sur	perio	or, WI						
RECEIVING	3 WATER:	Menominee River			PROJE	CT # :	6540								
			SAMPLE	INFORMA	ATION										
		SAMPLE CO	OLLECTION	SAMPLE	TEMP °C		HAND	)	O. D. T	·	SAM	PLE			
SAMPLE	SAMPLE	BEGINNING	END	COLLEC	ATLAD	pH at	DELIVE		HOLD T		ACC	EP-			
NO.	TYPE	DATE	DATE	TION	AT LAB	LAB	(If Yes, <u>≤</u> <b>4</b>		< 36 HI	Κ!	TAB	LE?			
1	EFF-24C	8/28/2023	8/29/2023	2.5	3.7	7.26	Yes ✓	No	✓ Yes	No	✓ Yes	No			
2	EFF-24C	8/30/2023	8/31/2023	3.0	7.3	7.58		_	✓ Yes		✓ Yes	No			
3							Yes	No	Yes	No		No			
4							Yes	No	Yes	No	Yes	No			
	Describe any	unusual conditions durin	g sampling that may influ	ience test res	ults. (see Pa	art 6.1.2 of	the Methods	s Mai	nual for exa	mple	s.)				
СО	MMENTS:		<u> </u>		•						•				
-															
			TEST II	NFORMAT	ION										
			ACUTE	11 0											
Date Test	Tests Are For:  WPDES Compliance (Required by Permit)  Pate of Initial Test:														
Test															
Date of I	nitial Test:														
	/IWC Info.:	ZID Compliance													
		C.dubia	FHM	N/A Otl	her	1									
Dilut	ion Water:	RW	RW	-	RW	•									
	1011 11 2.12	✓ LW	✓ LW		LW	i									
			Q, 1 Q, -	CONDITIO	7110	Τ Δ	CUTE								
Temperatur	es maintair	ned during test? (20	+ 1°C)			✓ Yes		_							
		0 mg/l throughout te				✓ Yes									
		d within 6.0 - 9.0 s.u.				✓ Yes									
		reference tests with		7		✓ Yes	=								
		carbon dioxide atmos				✓ Yes									
		modified prior to tes			ddition)	Yes									
	MMENTS:	modified prior to to	July: (GA. Illuation, acre	Allon, onom a	Julion)		, <u> </u>								
<u> </u>	IVIIVILINI C.														
		WA?	TER CHEMISTRY (A	All values rer	orted in ma/	/I except r	ZH)								
24451.5		**/ \	LICOTILIBIOTIC: L	All values rep	Often in mg/i	L, GACCPI P	pН		TOTAL		Condu	ctivity			
SAMPLE	NO.	HARDNESS	ALKALINITY	TOTAL A	MMONIA	(afte	Pri er Warming		RESIDU		(after wa	•			
TYPE		· ·· ·· ·- · · · · · · · · · · · · · ·					o 20°C)		CHLORI		(alter war	•			
Dag Water	NΙΛ	NA	NA	N	Α		NA		NA		N.				
Rec.Water	NA	IVA	INA	IN	А		NA		INA		INA	А			
Effluent	#1	372	24		.4		7.43		*ND		129	93			
Elliuelit	#2	548	44	0	.7		7.70		*ND		148	81			
	LAB	44	44	N	Α		7.96		NA		14	-8			
Lab Water	MHSW	84	64	N	Α		7.90		NA		35	i3			
CO		MHSW was the primary	control/ dilution water	and LAB wa	ter was the	secondar	y control fo	or the	e acute tes	t.					
		ND=Not Detected													

### WHOLE EFFLUENT TOXICITY (WET) TEST REPORT FORM

Survival > 90%   Surv			Secondary													
Survival > 90%	al <u>&gt; 9</u> 0%	· · · · · · · · · · · · · · · · · · ·														
Yes		Cerio	W	thead Minno	Fa	Ceriodaphnia dubia	Fathead Minnow									
SPECIES   EFFLUENT   TREATMENT   To   1					_											
SPECIES   EFFLUENT   TREATMENT   Percent Survival By Replicate   Secondary Control   10   2   3   4																
SPECIES   EFFLUENT   TREATMENT     Percent Survival By Replicate   SPECIES																
SPECIES   EFFLUENT   TREATMENT   1   2   3   4				ΑΤΛ	TEGT N	ACUTI										
SPECIES   SPECIES   Control   TREATMENT				AIA	IESID	ACUTI										
TREATMENT   1	Mean Percen Survival	ate	al By Replic	cent Surviva	Per	=	SPECIES									
Secondary Control   100   90   100		4	2 1	0 1		IREAIMENI	-									
Primary Control   100	07.5					O - a a mala m / Camatural										
Age of Organism:  12 Days    12.5%   100   100   100   100	97.5															
12.5%   100   10	100.0						Fathead Minnow									
12   Days   25%   80   100	100.0															
SPECIES   EFFLUENT   TREATMENT   Too   100   1	100.0					_										
THEAD MINNOW ACUTE RESULTS:	95.0						12 Days									
Thead Minnow Acute Results:	97.5															
Please describe any unusual behavior and/or appearance of organisms. (see Part 6.1.2 of the Methods Manual for exceptions)   SPECIES	100.0	100	100	100	100											
Please describe any unusual behavior and/or appearance of organisms. (see Part 6.1.2 of the Methods Manual for exceptions)   SPECIES	.0	TU <sub>a</sub> =	NA	C.I.% =	>100	ESULTS: LC <sub>50</sub> =	THEAD MINNOW ACUTE F									
TREATMENT   1	Mean Percen Survival	ate	al By Replic	cent Surviva	Per		SPECIES									
Secondary Control   100   10	Ourvivar		T			TREATMENT	OI LOILO									
Ceriodaphnia dubia         Primary Control         100         100         100         100           Age of Organism:         12.5%         100         100         100         100           < 24 Hours Old			-													
Age of Organism: 12.5% 100 100 100 100 100	100.0															
Age of Organism:       12.5%       100       100       100       100         < 24 Hours Old	100.0						Ceriodaphnia dubia									
< 24 Hours Old	100.0															
50%   80   100	100.0						•									
100% 100 60 80 100  riodaphnia dubia ACUTE RESULTS: LC <sub>50</sub> = >100 C.I.% = NA TU <sub>a</sub> = 1.0	90.0						< 24 Hours Old									
riodaphnia dubia ACUTE RESULTS: LC <sub>50</sub> = >100 C.I.% = NA TU <sub>a</sub> = 1.0	95.0															
, and the second	85.0			60												
Diagonal despite any unique le despite and/or announce of amorphisms (see Dark C. 4.0 of the Matheda Manuel for	.0	TU <sub>a</sub> =	NA	C.I.% =	>100	RESULTS: LC <sub>50</sub> =	riodaphnia dubia ACUTE!									
Please describe any unusual behavior and/or appearance of organisms.(see Part 6.1.2 of the Methods Manual for e	for ex.)	ne Methods Ma	Part 6.1.2 of t	organisms.(see	ppearance of	be any unusual behavior and/or a	Please desc									
COMMENTS:	/			J		, , , , , , , , , , , , , , , , , , , ,										



Acute C. dubia Survival

Facility: Tyco Fire Protection Products

Permit #: WI-0001040-08-0
Acute Test Date: 8/30/2023

### WHOLE EFFLUENT TOXICITY (WET) TEST REPORT FORM

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.

LAB REPRESENTATIVE:	Patrick S. Poirier		SIG	NATURE:	Alle	A	2-
PHONE:	715-392-6635	LAB CERT #:	816079220	)	7 /-	DATE:	9/5/2023
PERMITTEE			SIG	NATURE:			
REPRESENTATIVE:							
PHONE:			DATE:				

Send <u>all 3 pages</u> of this form (plus any attachments or additional information which you believe to be relevant to the test) to: Biomonitoring Coordinator, Bureau of Watershed Management, Department of Natural Resources, 101 South Webster St., P.O. Box 7921, Madison, WI 53707-7921; according to the timelines specified in your WPDES permit.

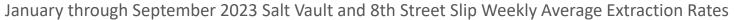
Copies of the State of Wisconsin Aquatic Life Toxicity Testing Methods Manual (Methods Manual) and the WET Guidance Document can be obtained from the Biomonitoring Coordinator at the address given above or at: http://dnr.wi.gov/org/water/wm/ww/biomon/biomon.htm

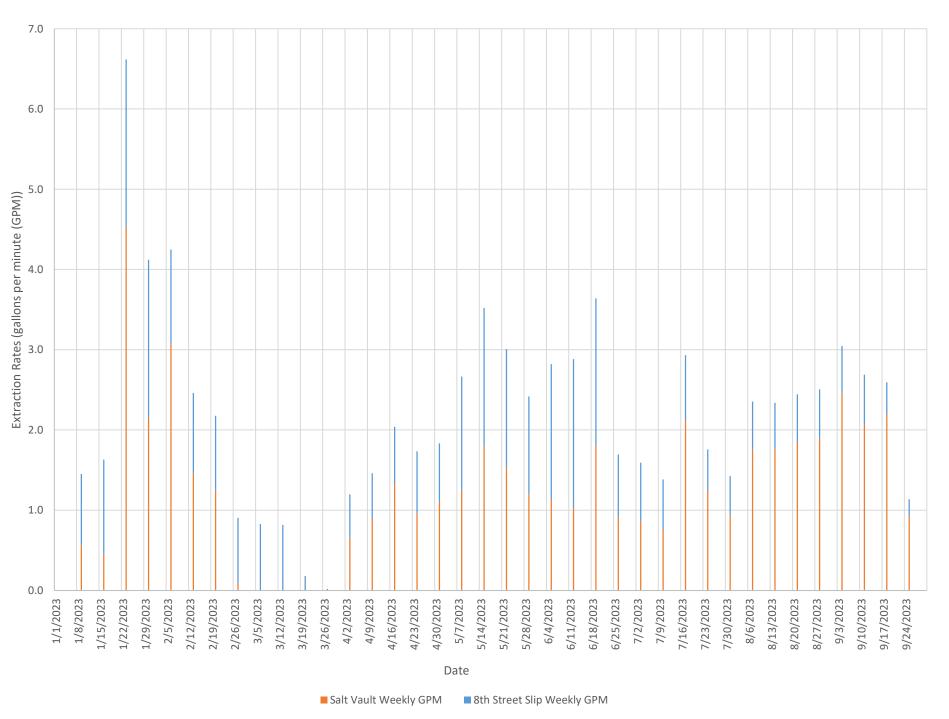
TO	BE COMPLETED BY THE WISCON	SIN DEPARTMENT	OF NATURAL RESOURCES	3
Date Received:			DID TESTS PASS?	
ACUTE	Fathead Minnow	Yes	No Inconclusive	Unacceptable
ACOTE	Ceriodaphnia dubia	Yes	No Inconclusive	Unacceptable
Retests Required?	Yes No	Both specie	es C.dubia only FHM only	
Due To:	Failure QA Problem			
WET Limit Violation?	Yes No limit in permit	Results Entered	Into Database? Yes	☐ No
COMMENTS:				
REVIEWED BY:			DATE:	
CC:			BASIN ENGINEER	
			PERMIT COORDINATOR	
			PERMIT FILE	

Facility: Tyco Fire Protection Products

Permit #: WI-0001040-08-0 Acute Test Date: 8/30/2023 Attachment 3 2023 PDP Weekly Average Extraction Rates

Document Control No.: D3766600.309





Attachment 4 2023 PDP Groundwater Elevation Monitoring

Document Control No.: D3766600.309

### Attachment 4. 2023 Pump Down Program Groundwater Elevation Monitoring

Tyco Fire Products LP, Marinette, Wisconsin

Target Elevation 577.9

	I .							T																		
	Janua	ry 4, 2023	Janua	ry 16, 2023	Janua	ry 24, 2023	Janua	ry 31, 2023	Febru	ary 7, 2023	Februa	ry 14, 2023	Februa	ry 21, 2023	Marc	ch 1, 2023	Marcl	h 7, 2023	Marc	h 16, 2023	Marci	h 22, 2023	March	27, 2023	Apr	il 3, 2023
		Corrected																								
Well ID		Groundwater																								
Well ID	DTW	Elevation (for																								
		equivalent fresh																								
		water)																								
Wells Inside Former Salt Va					l	<u> </u>	<u> </u>					<u> </u>		<u> </u>												
MW001M	10.63	576.51	10.31	576.83	11.43	575.71	11.32	575.82	11.63	575.51	11.38	575.76	11.37	575.77	10.98	576.16	10.83	576.31	10.48	576.66	10.21	576.93	10.04	577.10	9.74	577.40
MW001S	10.82	576.39	10.50	576.71	11.64	575.56	11.59	575.61	11.87	575.33	11.64	575.56	11.62	575.58	NM	-	NM	-	10.48	576.49	10.47	576.74	10.26	576.95	10.02	577.19
MW002M-R	14.02	576.38	13.63	576.77	14.72	575.67	14.59	575.81	14.99	575.40	14.70	575.69	14.71	575.68	14.30	576.10	14.24	576.16	13.83	576.57	13.59	576.81	13.39	577.01	13.16	577.25
MW002S-R	13.97	576.31	13.56	576.72	14.64	575.64	14.57	575.71	14.86	575.42	14.64	575.64	14.67	575.61	14.28	576.00	14.20	576.08	13.77	576.51	13.49	576.79	13.36	576.92	13.08	577.20
MW031M	11.39	576.56	11.16	576.80	12.13	575.82	12.16	575.79	12.31	575.64	12.20	575.75	12.16	575.79	11.69	576.26	11.61	576.34	11.16	576.80	10.89	577.07	10.78	577.18	10.48	577.48
MW031S	12.60	576.27	12.24	576.63	14.42	574.45	13.26	575.61	13.54	575.33	13.35	575.52	13.38	575.49	12.81	576.06	12.77	576.10	12.29	576.58	12.02	576.85	11.87	577.00	11.65	577.22
MW113S	13.82	576.44	13.45	576.81	14.55	575.71	14.47	575.79	14.82	575.44	14.59	575.67	14.59	575.67	14.22	576.04	14.11	576.15	13.71	576.55	13.44	576.82	13.27	576.99	13.02	577.24
MW113M	11.85	578.38	11.55	578.68	12.22	578.01	12.26	577.97	12.36	577.87	12.28	577.95	12.29	577.94	12.04	578.19	11.88	578.35	11.59	578.64	11.31	578.92	11.26	578.97	10.94	579.29
MW115P MW115S	12.26	576.81	11.24	577.83	12.99	576.08	13.06	576.01	13.37	575.70	13.24	575.83 575.56	13.24	575.83	12.85	576.22	12.79	576.28	12.30	576.77	11.13 12.12	577.94 576.84	10.29	578.78	9.62	579.45
MW1155 MW116P	12.68 12.96	576.28 576.89	12.29 12.96	576.67 576.89	13.55 13.00	575.41 576.85	13.36 12.95	575.60 576.90	13.68 12.95	575.28 576.90	13.40 12.94	575.56	13.48 12.95	575.48 576.90	12.93 12.95	576.03 576.90	12.85 12.94	576.11 576.91	12.39 12.95	576.57 576.90	12.12	576.84 576.94	11.96 12.94	577.00 576.91	11.71	577.25 577.89
MW116F	13.55	576.28	13.05	576.78	14.54	575.29	14.17	575.66	14.64	575.18	14.22	575.61	14.27	575.56	13.81	576.90	13.73	576.10	13.26	576.57	12.91	576.88	12.94	576.91	12.51	577.32
MW119D	9.21	579.51	9.24	579.48	9.29	579.43	9.29	579.43	9.36	579.36	9.42	579.30	9.44	579.28	9.46	579.26	9.50	579.22	9.45	579.27	9.49	579.23	9.48	579.24	9.41	579.31
EW-3	NM	-	NM		NM	-	NM	-	NM	-	NM	-														
EW-10	10.68	576.37	10.22	576.83	11.10	575.95	11.30	575.75	11.59	575.46	11.45	575.60	11.36	575.69	NM	-	NM	-	NM	-	9.98	577.07	NM	-	9.43	577.62
EW-11	9.54	577.14	9.23	577.45	10.05	576.63	10.18	576.50	10.33	576.35	10.12	576.56	10.14	576.54	NM	-	NM	-	NM	-	9.08	577.60	NM	-	8.55	578.13
EW-13	8.72	576.39	8.39	576.72	9.42	575.68	9.34	575.76	9.68	575.42	9.50	575.60	9.43	575.67	NM	-	NM	-	NM	-	NM	-	7.77	577.34	7.44	577.67
EW-14	9.71	576.36	9.32	576.75	10.60	575.47	10.36	575.71	10.70	575.37	10.45	575.62	10.43	575.64	10.02	576.05	9.97	576.10	9.49	576.58	9.24	576.83	8.99	577.09	8.06	578.02
Wells Inside Former 8th Str																										
MW034M MW034S	12.14	576.08	12.60	575.62	12.66	575.56	12.92	575.30	12.80	575.42	12.88	575.34	12.78	575.44	12.80	575.42	12.91	575.31	12.11	576.11	11.50	576.72	11.28	576.94	11.50	576.72
MW0345 MW036M	12.52	575.66 575.98	12.21	575.97 576.05	13.02	575.16 575.36	13.28	574.90 575.26	13.21	574.97 575.45	13.23	574.95 575.44	13.11	575.07 575.42	13.16	575.02 575.50	13.25	574.93 575.35	12.48	575.70 575.82	11.83 12.27	576.35 576.23	11.55 11.99	576.63 576.52	11.62 11.64	576.56 576.87
MW036S	12.52 12.02	576.23	12.45 11.92	576.33	13.13 12.68	575.57	13.23 12.68	575.57	13.04 12.55	575.70	13.05 12.56	575.69	13.07 12.59	575.66	12.99 12.51	575.74	13.14 12.66	575.59	12.68 12.19	576.06	11.74	576.51	11.47	576.78	11.04	577.17
MW038M	9.74	576.40	9.59	576.55	12.00 NM	-	10.43	575.71	10.19	575.95	10.21	575.93	10.28	575.86	NM		10.27	575.87	9.81	576.33	9.36	576.78	9.08	577.06	8.49	577.65
MW038S	11.51	576.31	11.29	576.53	12.34	575.48	12.16	575.66	11.96	575.86	11.92	575.90	11.99	575.83	11.90	575.92	11.95	575.87	11.57	576.25	11.06	576.76	10.78	577.04	10.11	577.72
MW120D	8.33	580.46	8.59	580.20	9.15	579.63	9.26	579.52	9.02	579.76	9.20	579.58	9.05	579.73	9.00	579.78	9.04	579.74	9.05	579.73	8.51	580.28	8.86	579.92	8.91	579.87
MW120M	12.55	576.35	12.56	576.34	12.94	575.95	13.23	575.65	13.11	575.78	13.30	575.58	13.22	575.66	13.24	575.64	13.38	575.50	12.88	576.01	12.48	576.42	12.20	576.70	11.83	577.08
MW120S	11.75	576.77	11.80	576.72	12.22	576.30	12.35	576.17	12.53	575.99	12.58	575.94	12.58	575.94	12.63	575.89	12.90	575.62	12.25	576.27	11.84	576.68	11.62	576.90	11.01	577.51
EW-2	NM	-																								
EW-8	7.91	576.19	7.81	576.29	12.90	571.19	8.57	575.53	8.38	575.72	8.35	575.75	8.44	575.66	8.32	575.78	8.49	575.61	7.97	576.13	7.53	576.57	7.29	576.81	6.73	577.37
EW-9 Wells Outside Pump Down	11.69	571.66	12.24	571.11	16.10	567.24	NM	- 1	NM	-	NM	-	8.34	575.02	NM	-	NM	-	NM	-	NM	- 1	6.79	576.57	10.32	573.04
MW004M	NM NM	- 1	NM		NM	I	NM	- 1	NM	- 1	NM	1	NM	1	NM		NM	- 1	NM	-						
MW004W	5.78	582.96	5.50	583.24	5.46	583.28	5.63	583.11	5.84	582.90	5.70	583.04	5.53	583.21	5.53	583.21	5.25	583.49	4.82	583.92	4.68	584.06	4.51	584.23	4.08	584.66
MW032M	6.47	581.84	6.46	581.85	6.65	581.66	6.88	581.43	6.69	581.62	6.70	581.61	5.35	582.96	6.55	581.76	6.26	582.05	6.09	582.22	6.01	582.30	5.99	582.32	5.56	582.75
MW032S	5.42	583.07	5.33	583.16	5.30	583.19	5.58	582.91	5.59	582.90	5.49	583.00	6.67	581.81	5.29	583.20	5.04	583.45	4.64	583.85	4.59	583.90	4.46	584.03	3.98	584.51
MW033M	4.60	582.79	4.39	583.00	4.25	583.14	4.53	582.86	4.68	582.71	4.49	582.90	4.32	583.07	4.31	583.08	3.84	583.55	3.72	583.67	3.51	583.88	3.11	584.28	2.83	584.57
MW033S	4.48	582.84	4.12	583.20	4.04	583.28	4.28	583.04	4.37	582.95	4.26	583.06	4.09	583.23	4.11	583.21	4.04	583.28	3.45	583.87	3.24	584.08	3.33	583.99	2.60	584.72
MW039M	NM	-																								
MW039S	3.08	583.12	2.93	583.27	2.89	583.31	3.05	583.15	3.25	582.95	3.09	583.11	2.95	583.25	2.96	583.24	2.65	583.55	2.24	583.96	2.08	584.12	1.92	584.28	1.50	584.70
MW035M MW035S	NM	-	NM NA		NM	-	NM		NM 1.22		NM		NM	-	NM		NM 5.62									
MW0355 MW037M	5.99 NM	581.66	6.33	581.32	6.49 NM	581.16	6.98 NM	580.67	7.24	580.41	6.94	580.71	6.71	580.94	6.91	580.74	6.28	581.37	5.91	581.74	5.65 NM	582.00	5.64 NM	582.01	5.62	582.03
MW037M MW037S	5.59	581.48	NM 5.67	581.40	5.72	581.35	6.29	580.78	NM 6.57	580.49	NM 6.25	580.82	NM 5.99	581.08	NM 6.21	580.86	NM 5.48	581.59	NM 5.12	581.95	NM 4.91	582.16	4.80	582.27	NM 4.74	582.33
SG4	7.15	580.30	NM	- 301.40	NM		0.29 NM	- 360.76	NM	300.49	NM	- 560.62	5.99 NM	- 361.06	NM	- 360.66	NM	301.37	5.12 NM	- 301.23	NM	- 302.10	4.60 NM	- 362.21	NM	- 302.33
	vation Calc SV	576.58	14171	576.94		575.73	14141	575.94	14141	575.64	14141	575.87	14141	575.86	14141	576.32	14141	576.41	14171	576.79	14041	577.06	14/41	577.21		577.48
	ation Calc 859			576.26		575.63		575.53		575.64		575.60		575.61		575.59		575.51		576.07		576.56		576.82		577.16
Target Elevat		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90
	SV Variance			-0.96		-2.17		-1.96		-2.26		-2.03		-2.04		-1.58		-1.49		-1.11		-0.84		-0.69		-0.42
	8SS Variance	-1.68		-1.64		-2.27		-2.37		-2.26		-2.30		-2.29		-2.31		-2.39		-1.83		-1.34		-1.08		-0.74

### Attachment 4. 2023 Pump Down Program Groundwater Elevation Monitoring

Tyco Fire Products LP, Marinette, Wisconsin

Target Elevation 577.9

Well ID	Apri	.11.2023	Anri	il 18, 2023	Anri	l 25, 2023	Max	/ 3, 2023	AA.	y 9, 2023	May	/ 16, 2023	May	23, 2023	Mari	y 31, 2023	lune	e 6, 2023	luna	15, 2023	lunz	e 19, 2023	luno	27, 2023	July	10, 2023
Treat ID	Apri		Apri	Τ΄	Apri	Τ΄	May	T i	Ma	T	May	T	ividy	T .	May		June	T .	June	T .	June	T .	June	T	July	T .
		Corrected																								
		Groundwater																								
	DTW	Elevation (for																								
		equivalent fresh																								
		water)																								
Wells Inside Former Salt Va	ult			<u> </u>																						
MW001M	9.56	577.58	9.51	577.63	9.34	577.80	9.29	577.85	9.41	577.73	9.55	577.59	9.73	577.41	9.68	577.46	9.27	577.87	9.72	577.42	10.05	577.09	9.46	577.68	9.03	578.11
MW001S	9.77	577.44	9.82	577.39	9.58	577.63	9.51	577.70	9.67	577.54	9.78	577.43	9.95	577.26	9.92	577.29	9.50	577.71	9.96	577.25	10.36	576.85	9.67	577.54	9.28	577.93
MW002M-R	12.91	577.50	12.88	577.53	12.69	577.72	12.71	577.70	12.80	577.61	12.92	577.49	13.12	577.29	13.06	577.35	12.58	577.83	13.07	577.34	13.40	577.00	12.87	577.54	12.42	577.99
MW002S-R MW031M	12.78	577.50 577.66	12.78	577.50	12.58	577.70	12.58	577.70 577.92	12.68	577.60 577.85	12.83	577.45 577.66	13.02	577.26	12.92	577.36 577.43	12.46	577.82 577.93	12.95	577.33	13.32	576.96 577.16	12.79	577.49 577.79	12.36	577.92 578.19
MW031M MW031S	10.30 11.40	577.47	10.32 11.45	577.64 577.42	10.15 11.25	577.81 577.62	10.04 11.17	577.70	10.11 11.24	577.63	10.30 11.42	577.45	10.43 11.57	577.53 577.30	10.53 11.59	577.28	10.03 11.12	577.75	10.49 11.62	577.47 577.25	10.80 11.93	576.94	10.17 11.31	577.56	9.77 10.91	577.96
MW113S	12.71	577.55	12.73	577.53	12.53	577.73	12.50	577.76	12.61	577.65	12.73	577.53	12.90	577.36	12.86	577.40	12.43	577.83	12.91	577.35	13.23	577.03	12.67	577.59	12.25	578.01
MW113M	10.65	579.58	10.66	579.57	10.59	579.64	10.56	579.67	10.57	579.66	10.65	579.58	10.82	579.41	10.88	579.35	10.69	579.54	11.01	579.22	11.21	579.02	10.91	579.32	10.72	579.51
MW115P	9.30	579.77	9.46	579.61	9.37	579.70	9.52	579.55	9.60	579.47	9.98	579.09	10.66	578.41	10.72	578.35	10.60	578.47	10.89	578.18	11.18	577.89	10.91	578.16	10.65	578.42
MW115S	11.50	577.46	11.51	577.45	11.34	577.62	11.29	577.67	11.44	577.52	11.59	577.37	11.75	577.21	11.70	577.26	11.23	577.73	11.79	577.17	12.12	576.84	11.44	577.52	11.02	577.94
MW116P	11.10	578.75	11.47	578.38	11.68	578.17	11.61	578.24	11.84	578.01	11.72	578.13	11.80	578.05	11.69	578.16	11.62	578.23	11.43	578.42	11.55	578.30	11.53	578.32	11.42	578.43
MW116S	12.35	577.48	12.32	577.51	12.17	577.66	12.22	577.61	12.39	577.44	12.54	577.29	12.68	577.15	12.66	577.17	12.10	577.73	12.71	577.12	13.03	576.80	12.36	577.47	11.96	577.87
MW119D EW-3	9.35 NM	579.37	9.23	579.49	9.14 NM	579.58	9.08 NM	579.64	9.11	579.61	8.91	579.81	8.85 NM	579.87	8.81 NM	579.91	8.74	579.98	8.74 NM	579.98	8.74	579.98	8.89 NM	579.83	13.80	574.92
EW-10	9.36	577.69	9.36	577.69	9.33	577.72	9.32	577.73	NM 9.44	577.61	NM 9.47	577.58	9.63	577.42	9.57	577.48	9.24	577.81	9.65	577.40	9.87	577.18	9.45	577.60	9.08	577.97
EW-11	8.25	578.43	8.27	578.41	8.17	578.51	8.07	578.61	8.21	578.47	8.25	578.43	8.52	578.16	8.47	578.21	8.17	578.51	8.57	578.11	8.90	577.78	8.43	578.25	8.04	578.64
EW-13	7.28	577.83	7.34	577.77	7.14	577.97	7.17	577.94	7.99	577.12	7.38	577.73	7.60	577.51	7.55	577.56	7.22	577.89	7.67	577.44	8.05	577.06	7.42	577.69	7.09	578.02
EW-14	8.34	577.74	8.42	577.66	8.26	577.82	8.34	577.74	8.45	577.63	8.61	577.47	8.77	577.31	8.71	577.37	8.22	577.86	8.79	577.29	9.11	576.96	8.50	577.58	8.13	577.95
Wells Inside Former 8th Str	reet Slip																									
MW034M	11.00	577.22	11.00	577.22	10.84	577.38	10.73	577.49	10.94	577.28	10.82	577.40	10.91	577.31	10.93	577.29	11.05	577.17	11.28	576.94	11.40	576.82	11.25	576.97	11.02	577.20
MW034S MW036M	11.19	576.99	11.12	577.06	10.99	577.19	10.88	577.30	11.09	577.09	10.95	577.23	11.02	577.16	11.04	577.14	11.18	577.00	11.42	576.76	11.55	576.63	11.40	576.78	11.11	577.07
MW036S	11.11 10.55	577.41 577.70	10.92 10.37	577.60 577.88	10.74 10.16	577.78 578.09	10.62 10.02	577.91 578.23	11.10 10.52	577.42 577.73	10.93 10.36	577.59 577.89	11.13 10.54	577.39 577.71	11.19 10.60	577.33 577.65	11.36 10.78	577.16 577.47	11.69 11.11	576.82 577.14	11.83 11.27	576.68 576.98	11.42 10.90	577.09 577.35	11.17 10.64	577.35 577.61
MW038M	7.91	578.23	7.66	578.48	7.49	578.65	7.36	578.78	8.05	578.09	7.96	578.18	8.22	577.92	8.32	577.82	8.60	577.54	9.00	577.14	9.16	576.98	8.53	577.61	8.32	577.82
MW038S	9.54	578.29	9.23	578.60	9.09	578.74	8.99	578.84	9.74	578.09	9.65	578.18	9.90	577.93	10.20	577.63	10.28	577.55	10.72	577.10	10.90	576.92	10.21	577.62	9.92	577.91
MW120D	8.68	580.11	8.53	580.26	8.35	580.44	8.23	580.56	8.00	580.79	8.21	580.58	7.98	580.81	8.13	580.66	8.01	580.78	8.25	580.54	8.15	580.64	8.22	580.57	8.32	580.47
MW120M	11.40	577.51	11.33	577.59	11.26	577.66	11.15	577.77	11.33	577.59	11.16	577.76	11.28	577.64	11.25	577.67	11.38	577.54	11.52	577.39	11.69	577.22	11.89	577.02	11.65	577.26
MW120S	10.52	578.00	10.55	577.97	10.60	577.92	10.47	578.05	10.58	577.94	10.41	578.11	10.60	577.92	10.62	577.90	10.68	577.84	10.78	577.74	10.98	577.54	10.99	577.53	10.80	577.72
EW-2 EW-8	NM	577.50	NM	578.13	NM	579.37	NM	578.50	NM_		NM NM	575.97	NM_	575.73	NM_	575.62	NM	575.42	NM	574.91	NM_	574.71	NM NM	577.11	NM	577.70
EW-9	6.60 8.51	574.85	5.97 9.87	573.49	4.74 NM	5/9.5/	5.61 9.40	573.96	8.18 9.73	575.92 573.63	8.13 9.76	573.60	8.37 9.81	573.55	8.48 9.81	573.55	8.68 9.90	573.46	9.19 10.21	573.15	9.39 10.45	574.71	6.99 10.20	573.16	6.40 9.62	573.74
Wells Outside Pump Down F		314.03	7.01	313.47	INIVI		9.40	313.70	7.13	313.03	7.70	313.00	7.01	313.33	7.01	313.33	9.90	373.40	10.21	373.13	10.43	312.71	10.20	373.10	7.02	313.14
MW004M	NM	-		-																						
MW004S	3.72	585.02	3.71	585.03	3.91	584.83	3.85	584.89	3.92	584.82	3.96	584.78	4.30	584.44	4.62	584.12	4.84	583.90	4.91	583.83	5.09	583.65	5.15	583.59	5.20	583.54
MW032M	5.48	582.83	5.41	582.90	5.58	582.73	5.56	582.75	5.41	582.90	5.48	582.83	5.66	582.65	5.89	582.42	6.02	582.29	4.90	583.42	6.13	582.18	6.13	582.18	6.14	582.17
MW032S MW033M	3.90	584.59	3.98	584.51	4.15	584.34	4.17	584.32	4.10	584.39	4.14	584.35	4.46	584.03	4.80	583.69	4.99	583.50	6.02	582.47	5.11	583.38	5.14	583.35	5.09	583.40
MW033M MW033S	2.38	585.02 584.73	2.38 2.61	585.02 584.71	2.52 2.78	584.88 584.54	2.55	584.85 584.58	2.51 2.77	584.89 584.55	2.58 2.83	584.82 584.49	2.95 3.17	584.44 584.15	3.30 3.52	584.09 583.80	3.50 3.72	583.89 583.60	3.52 3.73	583.87 583.59	3.72 3.94	583.67 583.38	4.27 4.03	583.12 583.29	3.84 4.03	583.55 583.29
MW039M	2.59 NM	- 304.73	NM	- 504.71	2.78 NM	- 564.54	2.74 NM	-	NM	- 364.55	2.83 NM	- 304.47	3.17 NM	- 304.13	3.52 NM	-	3.72 NM	- 363.60	3.73 NM	- 303.37	3.94 NM	-	4.03 NM	- 363.27	4.03 NM	- 303.27
MW039S	1.10	585.10	1.17	585.03	1.37	584.83	1.30	584.90	1.36	584.84	1.42	584.78	1.76	584.44	2.06	584.14	2.29	583.91	2.33	583.87	2.51	583.69	2.57	583.63	2.66	583.54
MW035M	NM	-																								
MW035S	5.55	582.10	5.63	582.02	5.71	581.94	5.70	581.95	5.73	581.92	5.81	581.84	5.99	581.66	6.42	581.23	6.93	580.72	6.77	580.88	7.20	580.45	7.14	580.51	7.27	580.38
MW037M MW037S	NM		NM		NM	-	NM		NM	-	NM		NM	-	NM											
SG4	4.60 7.65	582.47 579.80	4.76 7.15	582.31 580.30	4.85 7.29	582.22 580.16	4.81 7.15	582.26 580.30	4.89 6.90	582.18 580.55	5.00 NM	582.07	5.21 6.90	581.86 580.55	5.72 6.89	581.35 580.56	6.35	580.72 580.55	6.12 7.11	580.95 580.34	6.63 7.10	580.43 580.35	6.57 7.05	580.49 580.40	6.72	580.34 581.37
	vation Calc S\	577.72	1.15	577.72	1.29	577.89	1.15	577.93	0.90	577.82	ININI	577.68	0.90	577.52	0.09	577.53	0.90	577.97	7.11	577.49	7.10	577.17	1.05	577.75	0.08	578.14
	ation Calc 859			577.80		577.93		578.05		577.65		577.79		577.62		577.55		577.41		577.13		576.97		577.25		577.49
Target Elevati		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90
	SV Variance			-0.18		-0.01		0.03		-0.08		-0.22		-0.38		-0.37		0.07		-0.41		-0.73		-0.15		0.24
	8SS Variance	-0.23		-0.10		0.03		0.15		-0.25		-0.11		-0.28		-0.35		-0.49		-0.77		-0.93		-0.65		-0.41

## Attachment 4. 2023 Pump Down Program Groundwater Elevation Monitoring Tyco Fire Products LP, Marinette, Wisconsin

Target Elevation 577.9

Well ID	July	13, 2023	July	y 18, 2023	July	25, 2023	July	31, 2023	Aug	ıst 4, 2023	Augu	ıst 9, 2023	Augu	st 15, 2023	Augu	st 22, 2023	Augu	st 29, 2023	Septe	mber 5, 2023	Septen	nber 13, 2023	Septem	nber 19, 2023	Septem	nber 26, 2023
		Corrected		Corrected		Corrected		Corrected		Corrected		Corrected		Corrected		Corrected		Corrected		Corrected		Corrected		Corrected		Corrected
		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater
	DTW	Elevation (for	DTW	Elevation (for	DTW	Elevation (for	DTW	Elevation (for	DTW	Elevation (for	DTW	Elevation (for	DTW	Elevation (for	DTW	Elevation (for	DTW	Elevation (for	DTW	Elevation (for	DTW	Elevation (for	DTW	Elevation (for	DTW	Elevation (for
	5	equivalent fresh	D	equivalent fresh	0	equivalent fresh	J	equivalent fresh	0	equivalent fresh	J	equivalent fresh	0	equivalent fresh	0	equivalent fresh	J	equivalent fresh	0	equivalent fresh	J	equivalent fresh	0.11	equivalent fresh	0	equivalent fres
		water)		water)		water)		water)		water)		water)		water)		water)		water)		water)		water)		water)		water)
Wells Inside Former Salt Va	sul+	,				''''		,		,		1,		1,		,		,				,		1,		
MW001M	9.87	577.27	10.11	577.03	9.40	577.74	9.26	577.88	9.94	577.20	9.92	577.22	10.24	576.90	10.37	576.77	10.61	576.53	10.71	576.43	10.96	576.18	11.05	576.09	10.66	576.48
MW001S	10.10	577.11	10.32	576.89	9.62	577.59	9.49	577.72	10.18	577.03	10.14	577.07	10.50	576.71	10.64	576.57	10.88	576.33	10.94	576.27	11.22	575.99	11.28	575.93	10.95	576.26
MW002M-R	13.33	577.07	13.43	576.97	12.70	577.71	12.63	577.78	13.32	577.08	13.28	577.12	13.56	576.84	13.70	576.70	13.94	576.46	14.03	576.37	14.24	576.16	14.32	576.08	14.01	576.39
MW002S-R	13.15	577.13	13.36	576.92	12.72	577.56	12.50	577.78	13.21	577.07	13.18	577.10	13.52	576.76	13.61	576.67	13.89	576.39	13.99	576.29	14.19	576.09	14.26	576.02	13.93	576.35
MW031M	10.71	577.25	10.86	577.10	10.16	577.80	10.01	577.95	10.64	577.32	10.64	577.32	10.98	576.98	11.12	576.84	11.40	576.55	11.49	576.46	11.70	576.25	11.76	576.19	11.39	576.56
MW031S MW113S	11.85	577.02 577.21	12.01	576.86 576.98	11.29 12.63	577.58 577.63	11.10 12.44	577.77 577.82	11.87 13.12	577.00 577.14	11.86 13.07	577.01 577.19	12.17	576.70 576.83	12.32	576.55 576.74	12.66 13.78	576.21 576.48	12.69 13.88	576.18 576.38	12.87 14.06	576.00 576.20	12.97 14.16	575.90 576.10	12.56 13.83	576.31 576.43
MW113M	13.05	579.09	13.28	578.90	10.96	579.27	10.85	579.38	11.21	579.02	11.18	579.05	13.43	578.90	13.52 11.44	578.79	11.59	578.64	11.72	578.51	11.87	578.36	11.97	578.26	11.79	578.44
MW115P	11.31	577.76	11.69	577.38	11.25	577.82	11.08	577.99	11.48	577.59	11.51	577.56	11.81	577.26	11.97	577.10	12.14	576.93	12.36	576.71	12.55	576.52	12.65	576.42	12.40	576.67
MW115S	11.95	577.01	12.14	576.82	11.40	577.56	11.26	577.70	11.98	576.98	11.95	577.01	12.29	576.67	12.39	576.57	12.76	576.20	12.79	576.17	13.02	575.94	13.08	575.88	12.70	576.26
MW116P	11.45	578.40	11.57	578.28	11.66	578.19	11.69	578.16	11.63	578.22	11.62	578.23	11.77	578.08	11.86	577.99	11.86	577.99	12.01	577.84	12.24	577.61	12.32	577.53	12.43	577.42
MW116S	12.83	577.00	13.05	576.78	12.39	577.44	12.11	577.72	12.89	576.94	12.85	576.98	13.20	576.63	13.28	576.55	13.72	576.11	13.70	576.13	13.85	575.98	14.01	575.82	13.63	576.20
MW119D EW-3	13.41	575.31	12.79	575.93	12.22	576.50	11.60	577.12	11.33	577.39	11.89	576.83	11.93	576.79	11.32	577.40	10.83	577.89	11.33	577.39	9.83	578.89	9.51	579.21	9.36	579.36
EW-10	9.94	577.11	NM 10.14	576.91	9.43	577.62	9.32	577.73	9.97	577.08	9.92	577.13	NM 10.28	576.77	NM 10.45	576.60	NM 10.62	576.43	NM 10.75	576.30	NM 10.99	576.06	NM 11.04	576.01	NM 10.70	576.35
EW-11	8.68	578.00	8.93	577.75	8.42	578.26	8.21	578.47	8.78	577.90	8.80	577.88	9.07	577.61	9.16	577.52	9.42	577.26	9.53	577.15	9.73	576.95	9.80	576.88	9.51	577.17
EW-13	8.08	577.03	8.14	576.97	7.57	577.54	7.38	577.73	7.96	577.15	7.91	577.20	8.29	576.82	8.49	576.62	8.68	576.43	8.82	576.29	9.06	576.05	9.10	576.01	8.71	576.40
EW-14	9.02	577.05	9.20	576.87	8.48	577.60	8.27	577.81	9.02	577.05	8.97	577.11	9.32	576.75	9.49	576.58	9.80	576.27	8.94	577.14	10.12	575.95	10.15	575.92	9.76	576.31
Wells Inside Former 8th Str																										
MW034M	11.03	577.19	11.03	577.19	10.57	577.65	10.76	577.46	10.85	577.37	10.68	577.54	10.74	577.48	10.77	577.45	10.68	577.54	10.70	577.52	10.72	577.50	11.02	577.20	10.14	578.08
MW034S MW036M	11.15 11.26	577.03 577.26	11.15 11.19	577.03 577.33	10.74	577.44 577.47	10.81 11.01	577.37 577.51	10.96	577.22 577.43	10.77	577.41 577.57	10.85	577.33 577.57	10.90	577.28 577.54	10.77 10.90	577.41 577.62	10.74	577.44 577.62	10.84 10.97	577.34 577.55	11.10 11.01	577.08 577.51	10.39	577.79 577.62
MW036S	10.72	577.53	10.66	577.59	11.05 10.50	577.75	10.43	577.82	11.09 10.53	577.72	10.95 10.32	577.93	10.95 10.43	577.82	10.98 10.42	577.83	10.33	577.92	10.90 10.34	577.91	10.97	577.83	10.48	577.77	10.90 10.34	577.91
MW038M	8.39	577.75	8.28	577.86	8.21	577.93	8.12	578.02	8.12	578.02	8.01	578.13	8.09	578.05	8.08	578.06	7.93	578.21	8.00	578.14	8.08	578.06	8.08	578.06	8.10	578.04
MW038S	10.04	577.79	9.92	577.91	9.86	577.97	9.75	578.08	9.80	578.03	9.64	578.19	9.73	578.10	9.70	578.13	9.62	578.21	9.63	578.20	9.74	578.09	9.78	578.05	9.76	578.07
MW120D	8.22	580.57	8.22	580.57	8.13	580.66	8.32	580.47	8.18	580.61	8.21	580.58	8.21	580.58	8.00	580.79	8.25	580.54	8.04	580.75	8.27	580.52	8.27	580.52	8.12	580.67
MW120M	11.68	577.23	11.72	577.19	11.55	577.36	11.53	577.38	11.59	577.32	11.42	577.49	11.46	577.45	11.58	577.33	11.45	577.46	11.44	577.47	11.48	577.43	11.56	577.35	11.41	577.50
MW120S FW-2	10.79	577.73	10.90 NM	577.62	10.88	577.64	10.70	577.82	10.74 NM	577.78	10.60 NM	577.92	10.65	577.87	10.71 NM	577.81	10.63	577.89	10.68 NM	577.84	10.69 NM	577.83	10.77 NM	577.75	10.78	577.74
EW-8	6.62	577.48	6.44	577.66	6.35	577.75	6.28	577.82	6.28	577.82	6.81	577.29	6.19	577.91	6.21	577.89	NM 6.17	577.93	6.05	578.05	6.22	577.88	7.55	576.55	6.23	577.87
EW-9	9.68	573.68	9.69	573.67	9.14	574.22	9.49	573.87	9.19	574.17	9.58	573.78	8.99	574.37	9.11	574.25	8.93	574.43	8.73	574.63	9.01	574.35	9.72	573.64	5.62	577.75
Wells Outside Pump Down I		i					.,				7.00		<b>Q</b>						00							
MW004M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW004S MW032M	5.03	583.71	5.20	583.54	4.29	584.45	5.38	583.36	5.24	583.50	5.30	583.44	5.14	583.60	5.27	583.47	5.38	583.36	5.58	583.16	5.60	583.14	5.78	582.96	5.92	582.82
MW032M MW032S	6.03 4.98	582.28 583.51	6.25 5.21	582.06 583.28	6.17 5.19	582.14 583.30	5.32 6.28	582.99 582.20	6.12	582.19 583.44	6.22	582.09 583.29	6.02 5.00	582.29 583.49	6.21	582.10 583.23	6.25	582.06 583.23	6.42	581.89 582.97	6.41 5.45	581.90 583.04	6.59 5.67	581.72 582.82	6.62 5.86	581.69 582.63
MW0323 MW033M	3.68	583.71	3.87	583.52	3.93	583.46	4.22	583.17	5.05 4.11	583.28	5.20 4.13	583.26	3.95	583.44	5.26 4.17	583.22	5.26 4.21	583.18	5.52 4.42	582.97	4.48	582.91	4.65	582.74	4.78	582.61
MW033S	3.87	583.45	4.05	583.27	4.15	583.17	4.05	583.27	3.84	583.48	3.95	583.37	3.76	583.56	3.96	583.36	4.02	583.30	4.42	583.07	4.48	583.03	4.68	582.64	4.78	582.71
MW039M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW039S	2.46	583.74	2.63	583.57	2.72	583.48	2.81	583.39	2.67	583.53	2.72	583.48	2.56	583.64	2.68	583.52	2.80	583.40	3.01	583.19	3.02	583.18	3.22	582.98	3.35	582.85
MW035M MW035S	NM		NM		NM	-	NM		NM		NM		NM		NM	-	NM									
MW0355 MW037M	6.69	580.96	7.34	580.31	7.08	580.57	7.44	580.21	6.38 NM	581.27	7.05	580.60	6.09	581.56	6.59	581.06	6.89	580.76	7.54	580.11	7.38	580.27	7.80	579.85	7.98	579.67
MW037M MW037S	6.05	581.02	NM 6.78	580.28	6.55	580.52	NM 6.99	580.07	NM 5.69	581.38	NM 6.48	580.59	6.37	580.70	NM 5.94	581.13	6.25	580.82	NM 6.99	580.07	NM 6.82	580.24	7.24	579.82	NM 7.45	579.61
SG4	6.17	581.28	7.20	580.25	7.07	580.38	6.90	580.55	5.20	582.25	7.07	580.38	7.90	579.55	7.96	579.49	7.30	580.15	6.90	580.55	7.20	580.25	7.90	579.55	7.45	580.35
Target Elev	vation Calc S\	577.32		577.13		577.79		577.95		577.28		577.31		576.99	,0	576.87		576.59		576.52		576.31	,0	576.23		576.57
. 3	ation Calc 859			577.46		577.65		578.06		577.61		577.77		577.71		577.68		577.78		577.77		577.70		577.60		577.84
Target Elevati				577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90
	SV Variance 8SS Variance			-0.77 -0.44		-0.11 -0.25		0.05 -0.22		-0.62 -0.29		-0.59 -0.13		-0.91 -0.19		-1.03 -0.22		-1.31 -0.12		-1.38 -0.13		-1.59 -0.20		-1.67 -0.30		-1.33 -0.06
	ODD VALIANCE	-0.46		-0.44		-0.25		-0.22		-0.29		-0.13		-0.19		-0.22		-0.12		-0.13		-0.20		-0.30		-0.06

Measurements were collected from top of casing (TOC). All depth measurements are in feet.

Elevations are reported in feet relative to the North American Vertical Datum 1988 (NAVD88)

Shaded/Bold = Well part of Target Elevation calculation

- = Information not applicable or not collected

Area Definitions - SV - former Salt Vault, 8SS - former 8th Street Slip

Corrected groundwater elevation is calculated using the 2022 calculated mean conductivity value (from the last 5 years of data)

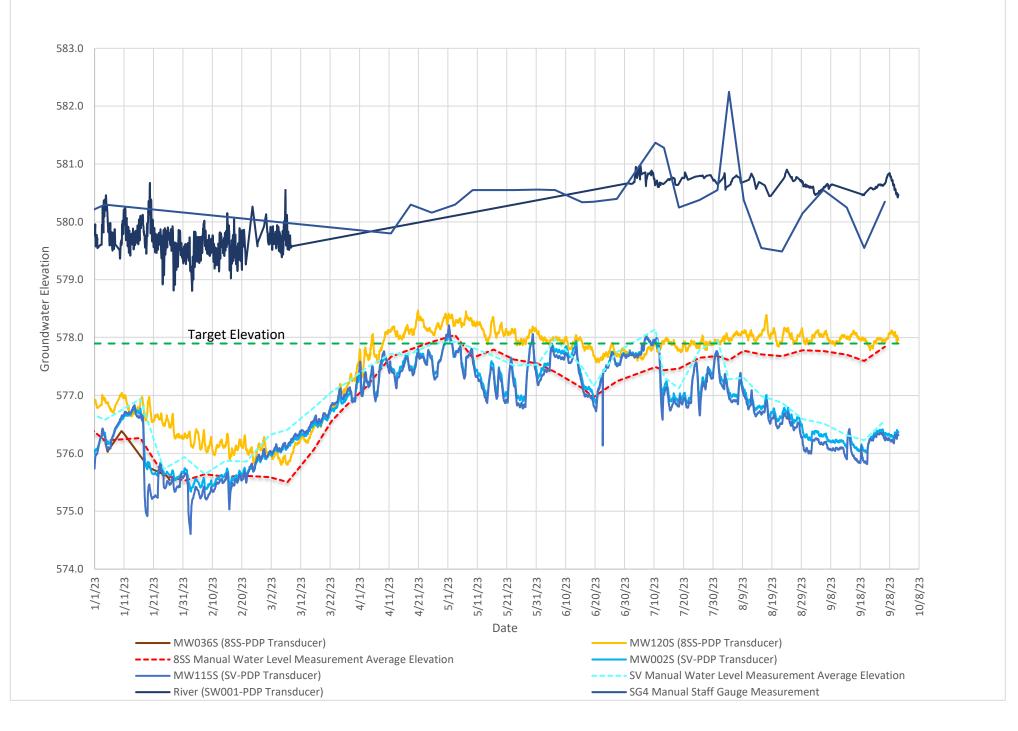
ID = identification; DTW = depth to water

NM = Not Measured; MW = Monitoring Well

# Attachment 5 2023 PDP System Hydrographs

Document Control No.: D3766600.309

# January through September 2023 Water Levels Pump Down Program System Hydrographs



Attachment 6 MW105 Monitoring Well Nest Abandonment, Installation, and Development Logs State of Wis., Dept. of Natural Resources dnr.wi gov

### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis, Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis, Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally Identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to DNR Bureau:

▼ Verification Only	of Fill a	nd Sea	ıl		Dri	inking V		. 📙	Watershed/Wa	astewater	Remedia	ation/Redeve	elopment
Province Commence Com	Distance of the last				VV	aste Ma	inageme		Other:	ADMINITAL III			
1. Well Location Infor	mation William	a Mali di	4	Liens	- 44	_		2. Facility Facility Nam	/ Owner Info	ormation			
County	Remove		OI	Hicap	P PP	Bo	ring		Products LP				
Marinette		VV568			M	W-105	D		ID or PWS)				
Latitude / Longitude (see in 45.09803	structions	s) N		at Code			PS008		·				
87.61693		w		DDM			CR002 TH001	License/Peri	mit/Monitoring	*			
741% 1/4		Section	To	wnship		Range	ΠE	Original Wel					
or Gov't Lot#		10	- 1:	31	Νĺ	27	⊠w	Tyco Fire I	Products LP				
Well Street Address	-				_			Present Wel	l Owner				
One Stanton Street									Products LP				
Well City, Village or Town				W	ell Z	IP Cod	е		ress of Present	Owner			
City of Marinette						5414	3	One Stant			T=	1	
Subdivision Name				Lo	1#			City of Prese	ent Owner		State	ZIP Code	
								Marinette			WI	54143	3
Reason for Removal from	Service	WI Uni	que W	eli# of	Rep	laceme	ent Weli			n, Casing & Seal			
Construction									d piping remove	ed7		Yes No	
3. Filled & Sealed We								Liner(s) re				Yes No	
× Monitoring Well	0	riginal Co	onstruc	tion Da	te (r	nm/dd/	уууу)		erforated?		-	Yes No	
			0:	5/24/20	)11			Screen re				Yes 🗷 No	
Water Well	Ti.	a Well C	onstru	ction Re	epor	rt is ava	llable.	Casing lei	ft in place?		<u> </u>	Yes No	
Borehole / Drillhole		lease att						Was casi:	ng cut off belov	v surface?	_	Yes 🔲 No	
Construction Type:	1000								ig material rise		⊠,	Yes 🔲 No	
Drilled [1]	Driven (Sa	andpoint)			Dug				rial settle after :		Π,	Yes 🗷 No	
Other (specify): Rot	osonic								, was hole reto	, ,		Yes No	× N/A
Formation Type:	_								te chips were u r from a known	ised, were they hydr	ated 🔲	Yes 🗌 No	⋉ N/A
× Unconsolidated Form	ation		× Bed	irock						g Sealing Material			,
Total Well Depth From Gro			_	g Diame	ntor	(in )				ity × Conductor	Pine-Pump	eđ	
,	Juliu Sulie	ice (it)	Casiii	A DISHIII	2.			_	ned & Poured	Other (Expl			
42									nite Chips)	C Oniei (Exp.	allij		
Lower Drillhole Diameter (i	n.)		Casin	g Depth	' '			Sealing Mat			1725		
2.0					4:	2		1 —	Cement Grout	ᆜ	Concrete		
Was well annular space gro	nuted?	-	Yes		No.		nknown	Sand-	Cement (Conci	rete) Grout	Bentonite	Chips	
						П	TINIOWII	For Manitori	ing Wells and N	Monitoring Well Bore	-		
If yes, to what depth (feet)	?	Dept	h to W	ater (fe				☐ Bentor	nite Chips	× -Benter	<del>nite</del> - Ceme	ant Grout	
34				0	).5			☐ Granu	lar Bentonite	× Benter	nite Sand	Slurry	
5. Material Used to Fi	II Well /	Drillhol	е					From (ft )	To (tt.)	No Yards Sacks 5		Mix Ru	
1 1 1 5 1 1				_}_				Surface	0.5	Volume (chale <1 bag	(384)	Muit W	A TOTAL CONTRACTOR
Cement / Sand Slurry			_		_			0.5	42	15 gallons	3	47	/1
Cement / Sand Sidily							_	0.0		To gamen			
6. Comments			All									* E	
or comments													
7. Supervision of Wor	rk	a Cash	- 0		4	le.	Date of F	lline & Coeffee	Marification		ONR Use	Only Noted By	
Name of Person or Firm D				icense	#			-	g or Verification	Date Received		NOWEG BY	
Horizon Construction as	in exbioi	auon, Li						yyy) 07/25/2		Comments			
Street or Route 764 Tower Drive								elephone Nun 262 ) 692-		Comments			
			Etc	n 17	10.4	Code			Person Doing	Model	IDad	te Signed	,
City Fredonia			Stat	M Z	.17 (	5302	21		Telsoil Doing	// h .		7/09/	00
			<u> </u>						1-1	for there	<del>~   /</del>	10110	10

State of Wis., Dept. of Natural Resources dnr.wi.gov

# Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to DNR Bureau:

▼ Verification Only	of Fill a	nd Sea	I		Drinking	Water	=	Watershed/Wa	stewater	Remedia	ation/Redeve	elopment
z manti som mentera	TOTAL PROPERTY.		_		AAGSIG	Managem			CHARLES THE SECOND	_		
1. Well Location Infor		ie Well # o	1	Hicap	# .	lasiaa.	Facility Name	Owner Info	rmation			
County	Remove	d Well	,	Iriicap	<b>"</b> [	Boring	,	roducts LP				
Marinette		VV567			MW-1	05M	Facility ID (FI					_
Latitude / Longitude (see in	struction	5)	Forma	t Code		od Code	Pacifity ID (F	D 01 F 443)				
45.09803		N	×	DD		GPS008	License/Derm	nit/Monitoring #				
87.61693		w		DDM		SCR002	License/Fern	illusvioriitoritig s				
			_=	wnship	_	OTH001	Original Well	Cumor		_		
74174 14		Section	110		Rang	Ш-	Tunn Elen E	Products LP				
or Gov't Lot #		10	$\perp$	31	N 27	<b>/   €</b> V	Present Well					
Well Street Address								·				
One Stanton Street								Products LP ess of Present	Chunne			
Well City, Village or Town				We	II ZIP C				Owner			
City of Marinette					54	143	One Stanto			Ctoto	ZIP Code	
Subdivision Name				Lot	#		City of Prese	nt Owner		State	5414	9
							Marinette		Carles & Carl			
Reason for Removal from S	Service	WI Unit	que We	# of F	Replace	ment Wel		piping remove	n, Casing & Seal	-	Yes No	× N/A
Construction			_			_			au r		=	
3. Filled & Sealed Wel							Liner(s) re			==		
× Monitoring Well	0	riginal Co	nstruct	ion Date	e (mm/d	d/yyyy)	Liner(s) pe				Yes No	
= '	- 1		05	/24/20	11		Screen rer				Yes 🗷 No	
Water Well	- It	f a Well C	onstruc	tion Re	port is a	vailable.	Casing left	in place?		×,	Yes No	N/A
Borehole / Drilihole		lease atta			,	,	Was casin	g cut off below	surface?	<b>X</b>	Yes 🔲 No	□ N/A
Construction Type:							Dld sealing	g material rise	to surface?	⊠,	Yes 🔲 No	□ N/A
Drilled	Driven (Sa	andpoint)			ug		Did materi	al settle after 2	4 hours?	□,	Yes 🗷 No	
X Other (specify): Rot	osonic			_				was hole retor	•		Yes No	× N/A
Formation Type:					1157			e chips were u from a known	sed, were they hydr	ated $\square$	Yes No	× N/A
_		_	7 2-4						Sealing Material			
∠ Unconsolidated Form		40.5	Bed		1#->				ty K Conductor F	Dine. Dumn	art	
Total Well Depth From Gro	ound Surf	ace (ft.)	Casing	Diame				ed & Poured	=		-	
30					2.0			nite Chips)	Other (Expl	ain):		
Lower Drillhole Diameter (i	in.)		Casing	Depth	(ft.)		Sealing Mate	rials				
2.0		- 1			30		☐ Neat C	ement Grout		Concrete		
-		_	_	_	_	_		Cement (Concr	ete) Grout	Bentonite	Chips	
Was well annular space gro	outed?	K	Yes		io _	Unknow	For Monitoria	ng Wells and M	fonitoring Well Bore	holes Only	t	
If yes, to what depth (feet)	7	Depti	to Wa	ter (fee	t)			ite Chips	▼ Bentor			
22		11 - 77		0.	.5		-	ar Bentonite	X Benton	ite- Sand	Slurry	
		-	-		-			DE-WANNER	No Yards Sacks S			itio pr
5. Material Used to Fil	II Well /	Drillhole	2		_		Fram (fb)	To (ft.)	Volume (citale		Must V	Jengtit
Asphalt Patch							Surface	0.5	<1 bag			**
Cement / Sand Slurry							0.5	30	10 gallons	3	47	/1
										_		
6. Comments		_			Ÿ.		3135					
7. Supervision of Wa	rk ·									NR Use	Only	
Name of Person or Firm D		g & Sealir	ng Li	cense a	#	Date of	Filling & Sealing	or Verification			Noted By	
Horizon Construction ar						(mm/dd	/yyyy) 07/25/20	)22				
Street or Route							Telephone Nurr	ber	Comments			Tu .
764 Tower Drive							(262 ) 692-	3348				
City			State	e Ži	IP Code		Signature of	Person Doing	Work	Dat	te Signed/	1
Fredonia			V	VI	53	3021	10/1	7/	for Har	Za	7/21	1/22

State of Wis., Dept. of Natural Resources dnr.wi.gov

### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to DNR Bureau:

▼ Verification Only	of Fill a	and Sea	l		rinking Wate	ег		Watershed/Watershed/Watershed/Watershed/Watershed/Watershed/Watershed/Watershed/Watershed/Watershed/Watershed/	astewater	≭ Remedia	ation/R	edevel	opment
				LJ v	Vaste Manag	jemer							
Well Location Information     Well Location Information		ue Well # o	· ·	Hicap #	Desine		Facility Name	Owner Info	ormation				
County	Remove	d Well	ונ	rnicap #	Boring	3		roducts LP					
Marinette	l	VV556		1	MW-105S		Facility ID (FI						
Latitude / Longitude (see in	struction	s)	Format	Code	Method Co		racilly ID (F	D 01 P 440)					
45.09803		N	ĸ	DD	☐ GPS0		License/Pern	nlt/Monitoring	#				
87.61693		w	П	DDM	SCR002 Ucense/Permit/Monitoring #								
74/74 1/4		Section	ITov	vnship	Range		Original Well	Owner					
or Gov't Lot #		10	1	31 N	A ==	ĺw	Tyco Fire F	Products LP					
Well Street Address				- 14	(-	1	Present Well	Owner					
One Stanton Street							Tyco Fire F	Products LP					
Well City, Village or Town				Well	ZIP Code		Mailing Addre	ess of Present	Owner				
City of Marinette				'''	54143		One Stanto	n Street					
Subdivision Name				Lot #			City of Prese	nt Owner		State	ZIP C	ode	
							Marinette			WI		54143	
Reason for Removal from	Service	WI Unio	que We	li # of Re	placement \	Vell			n, Casing & Sea				
Construction								piping remov	ed?	=		No	× N/A
3. Filled & Sealed Wel	II / Drillh	ole / Bo	rehole	Inform	nation		Liner(s) re			=	Yes [	No	ĭ N/A
▼ Monitoring Well	C	riginal Co	nstructi	on Date	(mm/dd/yyy)	y)	Liner(s) pe				Yes	No	ĭ N/A
= '			05	24/201	1		Screen rer	10.		=		≚ No	□ N/A
Water Well	-  -	f a Well C	onstruc	tion Ren	ort is availab	ile.	Casing lef	t in place?		×	res [	No	□ N/A
Borehole / Drillhole		lease atta		ч-1110р			Was casin	g cut off belov	v surface?	E,	res [	Nο	□ N/A
Construction Type:							Did sealing	g material rise	to surface?	E)	Yes [	No	□ N/A
Drilled Driven (Sandpoint) Dug					al settle after		=		× No	☐ N/A			
Cother (specify) Rotosonic				*	was hole reto	* 1		Yes [	No	≭ N/A			
Formation Type:									ised, were they hyd i safe source?	rated .	Yes [	No	x N/A
□ Unconsolidated Form     □ Uncons	nation	Г	Bedr	ock			Required Me	thod of Placin	g Sealing Material				
Total Well Depth From Gro	ound Surf	ace (ft.)	Casing	Diamete	er (in.)		Conduc	ctor Pipe-Grav	rity 🗷 Conductor	Pipe-Pump	ed		
15				:	2.0		Screened & Poured (Bentonite Chips) Other (Explain):						
Lower Drillhole Diameter (i	in.)		Casino	Depth (f	1.)		Sealing Mate						
2.0					15		Neat Cement Grout Concrete						
2.0					10		Sand-C	Cement (Conc	rete) Grout	Bentonite	Chips		
Was well annular space gro	outed?		Yes	≭ No	Unkr	nown	ı —	•	Monitoring Well Bon	• eholes Onlv			
If yes, to what depth (feet)	?	Depti	to Wa	ter (feet)			_	ite Chips	<u>-</u>	nito- Ceme		out	
N/A		'		0.5	;			ar Bentonite	=	nite - Sand			
5. Material Used to Fi	II MAZAIL Z	Drillbok				-	From (ft )	To (ft )	No Yards Sacks	Sealant or		∕lix Rati	
	n wen /	Dillillore					Surface	0.5	Volume (circle		l V	Mud We	eight
Asphalt Patch							0.5	15	<1 bag 5 gallon:		-	47 /	1
Cement / Sand Slurry							0.5	13	J gallon		<del>                                     </del>	711	-
6. Comments			- 107			v-v.							
7 Supervicion of Mo	ric							27		DNR Use	Önly		
7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Fil			lling & Sealing	or Verificatio			Noted						
Horizon Construction as							/yy) 07/25/20						
Street or Route							elephone Num		Comments	17 7 7 6 20	Vertex 1	4	THE PARTY
764 Tower Drive						(	262 ) 692-		,				
City			State	ZIF	Code		Signature of	Person Doing	1 //// .		te Sign	ed	/
Fredonia			V	1	53021		122	<u>-/-</u>	for Ho	rim	7/	129	22
											. /		

• ———	Vatershed/Wastewater  Remediation/Redevelopment	Waste Manage		MONITORING WELL Form 4400-113A	L CONSTRUG Rev. 7-98	CTION
	Local Grid Location of Well	_		Well Name		
Tyco Fire Protection Products LP	ft.	∐ N. □ S	ft. □ E. ft. □ W.	MW-105D-R		
Facility License, Permit or Monitoring No.	. • •	mated: □ ) or W	ell Location	Wis. Unique Well No. W D 4 0 2	DNR Well ID	No.
Facility ID	1	-	or	Date Well Installed		
Facility ID		N,	_ ft. E. S/C/N	07/	26 / 202	
Type of Well	Section Location of Waste/Se	ource	ПЕ	Well Installed By: Nar	dd v v	
Well Code 12 / PZ			, R 🗒 🕏	Adam Sweet	ne (msi, iasi) a	ma run
Well Code/	Location of Well Relative to	Waste/Source G	ov. Lot Number	7 taam owoot		_
Sourceft. Enf. Stds. Apply		<ul><li>☐ Sidegradient</li><li>☐ Not Known</li></ul>		Horizon Constructi		
A. Protective pipe, top elevation	ft. MSL		Cap and lock?		- Yes	No
	ft. MSL	<u>~ № /~ 2. P</u>	rotective cover p	pipe:		0
B. Well casing, top elevation	<sup>10</sup> MOE	a	. Inside diameter	•		in.
C. Land surface elevation	ft. MSL	<b> </b> b	. Length:			$\frac{2}{2}$ ft.
	Samuel Coll	l Person o	:. Material:		Steel 🕒	
D. Surface seal, bottom ft. MS	X = 3//4 VIV.				Other L	J 🚃
12. USCS classification of soil near screen	u:	Maskage of	l. Additional pro	tection?	☐ Yes _	] No
	$SW \supseteq SP \supseteq  $		If yes, describe	3:		
	CT □ CH □	a 🕍 🔪 .	Surface scal:		Bentonite	30
Bedrock -		1 👹 🔪	surrace sear:		Concrete =	01
13. Sieve analysis performed?	Yes 🕒 No 📗 📸				Other _	] 🚃
14. Drilling method used: Ro	tary ∐ 50   🎇	4. N	Material between	well casing and protecti	ve pipe:	2111.177
Hollow Stem Au	· 1 100				Bentonite _	J 30
Roto Sonic O	ther 🗆 🏬 📗 🞇		Cement Grout		Other 🗆	
		5 7	Annular space sea	a. Granular/Chipp	ed Bentonite _	
15. Drilling fluid used: Water - 0 2	Air □ 01 🕌		Lbs/gal m	and weight Bentonite		
Drilling Mud 🗆 0 3	None □ 99   🞇	3 <b>8</b> 3	Lbs/gal m	ud weight Bent	onite slurry -	J 31
				ite Bentonite-c		
16. Drilling additives used? ☐	Yes ⊡ No			volume added for any		
		6	How installed:		Tremie	0 1
Describe	<b>&amp;</b>	\$ BB\$ **	non mounton		nie pumped _	02
17. Source of water (attach analysis, if requ	ıired):	3 ₩3			Gravity -	~ -
City of Marrinette Municipal Water		6. E	Bentonite seal:	a. Bentor	nite granules 🖃	
	<del></del>	∄ № ь	. □1/4 in. ⊐:	3/8 in. □1/2 in. Be	ntonite chips	32
E. Bentonite seal, top ft. MS	SL or 1.5_ft.	/ 🛭			Other $\Box$	
F. Fine sand, top ft. MS	34.0 a	7. F	Fine sand materia	il: Manufacturer, produ	ict name & me	sh size
F. Fine sand, top ft. MS	T or T.		Dad Elint #1E	,1		10000001
G. Filter pack, top ft. MS	L or 35.0 ft.	:	. Volume added	1.0 fi	3	44
		4 100 <b>3</b> 2		ial: Manufacturer, produ		esh size
H. Screen joint, top ft. MS	L or 37.0 ft.	a	Red Flint #40			
T Well bearing to 1 feet	SL or 42.0 ft.	Marine Co.	. Volume added	Flush threaded PVC so	-	23
I. Well bottom ft. MS	, L or [,	<b>国</b>	Well casing:			
7 mm 6 100	42.0 -	置人		Flush threaded PVC se		
J. Filter pack, bottom ft. MS	L or 11.			DVC ashadula 40	Other _	
C 3.60	y 420 a	<i>7777</i> 21	3010011 11141011411	PVC schedule 40		
K. Borehole, bottom ft. MS	L or	a.	Screen type:		Factory cut	_
6.00				Con	tinuous slot	0 1
L. Borehole, diameter $-\frac{6.00}{-}$ in.		\ \ \		Islanda O.	Other _	
M. O.D. well casing in.		, b.		Johnson Screens		010 in.
<del>-</del>		\ d.	Slotted length	:		<sup>5</sup> _ ft.
N. I.D. well casing in.		11. H	Backfill material	(below filter pack):	None =	14
a					Other [	
I hereby certify that the information on this	form is true and correct to th	e best of my knowle	edge.	<del></del> -		
Signature	Firm	<u>-</u> _	<del>_</del>			
1/100/2		olutions Corporation				

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 282, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent

<del>-</del>	Vatershed/Wastewater Remediation/Redevelopment	Waste Manage	ment	MONITORING WELL Form 4400-113A	L CONSTRU Rev. 7-98	JCTION
Facility/Project Name	Local Grid Location of Well	_		Well Name		
Tyco Fire Protection Products LP	1	∐ N. □ S	ft. □ E. ft. □ W.	MW-105M-R		
Facility License, Permit or Monitoring No.		mated: □ ) or W	ell Location	Wis. Unique Well No. W D 4 0 1	DNR Well II	D No.
Facility ID	St. Plane ft.	-		Date Well Installed		
	Section Location of Waste/Se		_ II. E. S/C/N	$\frac{0.7}{m}$	$\frac{1}{d} \frac{2}{d} \frac{6}{d} \frac{1}{v} \frac{20}{v}$	23
Type of Well	· ·		, R B	Well Installed By: Na		
Well Code 12 / PZ	1/4 of1/4 of Sec Location of Well Relative to		ov. Lot Number	Adam Sweet		
Distance from Waste/ Enf. Stds. Sourceft. Apply _	u 🗌 Upgradient s	<ul><li>☐ Sidegradient</li><li>☐ Not Known</li></ul>		Horizon Constructi	on & Explorat	ion
A. Protective pipe, top elevation	ft. MSL ————		Cap and lock?		- Yes	No
D W II	ft. MSL	1 1137	rotective cover p	<del>-</del>		Ω -
Di wan dang, tap da danan		1 1	. Inside diameter	:		in.
C. Land surface elevation	ft. MSL	Ps	. Length:			_ <sup>2</sup> _ ft.
D. Surface seal, bottom ft. MS	Lor 1.5 ft.	· · · · · · · · · · · · · · · · · · ·	:. Material:		Steel [	
	X - 37/4 33 - 3		1 A 1141 1		Other -	5750 777
12. USCS classification of soil near screen	1 1 11		l. Additional pro		☐ Yes ☐	_ No
	SW   SP   CL   CH	」 <b>∐</b> {/ /	ir yes, describe	3:		¬ 20
Bedrock		3. s	Surface scal:		Bentonite [	
13. Sieve analysis performed?	Yes ⊡ No				Concrete -	*******
	tary 🗆 5 0	<b>)</b>	Actorial between	well casing and protect	Other _	J 222
14. Drilling method used: Ro Hollow Stem Av	* 1 828	3 BB	Maichan Delwech	well cashig and protect	Bentonite	30
	ther $\square$	<b>3 ₩</b>			Other [	30000000
		1 🔐		al: a. Granular/Chipp		
15. Drilling fluid used: Water   0 2	Air □ 01	3. 4	Annular space sea	aud weight Bentonit		
	None 🗀 99	Ь	Los/gal II	and weight Bentome	tonito elurry	_ 33 <b>_</b> 31
		g (%) c	LOS/gai ii	ite Bentonite-	rement grout	3.7
16. Drilling additives used?	Yes 🖪 No 📗 🥁	9 🔉 "-		volume added for any		_ 50
		e f.	How installed:	•	Tremie	□ <b>0</b> 1
Describe	<b>               </b>	1.	now histaned.		nie pumped	
17. Source of water (attach analysis, if requ	ıired):				Gravity	
		6. E	Bentonite seal:	a. Benton	nite granules	
	<del></del>	ь	□1/4 in. □	3/8 in. ⊔1/2 in. Be	ntonite chips .	_ - 32
E. Bentonite seal, top ft. MS	L or 1.5_ft.	/ 📓			Other [	
	22.0 a		Fine sand materia	d: Manufacturer, produ	ict name & mi	esh size
F. Fine sand, top ft. MS	L or tt.			, p		1010000
G. Filter pack, top ft. MS	L or 23.0_ ft.		. Volume added	1.0 f	3	323,220
	<u> </u>			ial: Manufacturer, produ	uct name & m	iesh size
H. Screen joint, top ft. MS	L or 25.0_ ft.	a.	Red Flint #40 Volume added	12.0 f	<del>.</del> 3	
I. Well bottom ft. MS	L or <u>30.0</u> ft.	The same of the sa	Well casing:	Flush threaded PVC se	-	<b>2</b> 3
				Flush threaded PVC s	chedule 80	<b>□</b> 24
J. Filter pack, bottom ft. MS	L or 30.5 ft.				Other	
		10.5	Screen material:	PVC schedule 40		
K. Borehole, bottom ft. MS	Lor30.5_ft.	a.	Screen type:		Factory cut	
8 25				Con	tinuous slot	
L. Borehole, diameter $-\frac{8.25}{-}$ in.					Other .	
M. O.D. well casing		b. c.		Johnson Screens		010 in.
		\ d.	Slotted length	:	_	5_ft.
N. I.D. well casing $2.067$ in.		11. E	Backfill material	(below filter pack):	None	
		<del>-</del> .			Other [	
I hereby certify that the information on this		e best of my knowle	edge.			
Signature	Firm Endpoint So	olutions Corporation				

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 282, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent

	Vatershed/Wastewater  Remediation/Redevelopment	Waste Managem		MONITORING WELL Form 4400-113A	L CONSTRU Rev. 7-98	JCTION
	Local Grid Location of Well	_		Well Name		
Tyco Fire Protection Products LP	ft.	⊒ N. □ S	ft. □ E. ft. □ W.	MW-105S-R		
Facility License, Permit or Monitoring No.		nated: □ ) or Wel	ll Location	Wis. Unique Well No. W D 4 0 0	DNR Well II	D No.
Facility ID	1	-		Date Well Installed		
1 47111.9 12	St. Plane ft. I Section Location of Waste/So		n.e. s/c/n	07/	$\frac{1}{d} \frac{26}{d} \frac{1}{v} \frac{20}{v}$	23
Type of Well	'		_ □E.	Well Installed By: Nar		
Well Code 11 / MW	1/4 of1/4 of Sec			Adam Sweet		
Distance from Waste/ Enf. Stds. Source ft Apply		waste/Source Gov	v. Lot Number	Horizon Constructi	on & Explorati	ion
A. Protective pipe, top elevation		1. Ca	p and lock?		• Yes	No
	<del></del>		- otective cover p	ipe:		
B. Well casing, top elevation =	ft. MSL	a.1	Inside diameter	:		_ <sup>8</sup> _ in.
C. Land surface elevation	ft. MSL		Length:			_ 2_ ft.
	with the second	- <u>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -</u>	Material:		Steel 🕒	0 4
D. Surface seal, bottom ft. MS	Lor 1.5 ft. Garage				Other L	<b>」</b>
12. USCS classification of soil near screen	n: [************************************	Manager d.	Additional prot	tection?	☐ Yes	□ No
	SW 🕘 SP 🗀   🥄 🚻		If yes, describe	s:		
	сг⊐ сн¬   У∰		rfacc scal:		Bentonite 🖪	3 0
Bedrock	💹	) 3. Su	rracc scar:		Concrete -	□ 01
13. Sieve analysis performed?	Yes 🗓 No 💮	│ 👹 💉 _			Other	
14. Drilling method used: Ro	tary ⊔ 50	4. Ma	aterial between	well casing and protecti	ive pipe:	2778
Hollow Stem Au	ıger ⊡ 41				Bentonite	
o	ther 🗆 🊃 📗 🎇				Other [	
		5. An	nular space sea	a. Granular/Chipp	ed Bentonite	
15. Drilling fluid used: Water   0 2	Air □ 01	, h	Lbs/gal m	ud weight Bentonite	e-sand slurry[	35
Drilling Mud 🗆 0 3	None 🖃 99 📗 🧱	c	Lbs/gal m	ud weight Bent	tonite slurry -	<b>⊿</b> 31
		d	% Bentoni	ite Bentonite-c	ement grout	□ 50
16. Drilling additives used?	Yes ■ No			volume added for any		
		f.	How installed:	·	Tremie [	□ <b>0</b> 1
Describe	<del></del>				mie pumped _	<b>□</b> 02
17. Source of water (attach analysis, if requ	iired):	<b>₩</b>			Gravity [	
		6. Be	entonite seal:	a. Bentor	nite granules 🛚	33
-		₩ ъ.	□1/4 in. 😐	3/8 in. □1/2 in. Be	ntonite chips	- 32
E. Bentonite seal, top ft. MS	L or 1.5_ ft	🛛 🐰 / с			Other [	
7.7	30 0	7. Fir	ne sand materia	l: Manufacturer, produ	ict name & mi	esh size
F. Fine sand, top ft. MS	L or St.	D0031		, p		10000000
G. Filter pack, top ft. MS	L or4.0_ ft.		Volume added	1.0_ fi	3	250,500 s
	<b>→</b> III	8. Fil	lter pack materi	al: Manufacturer, produ	uct name & m	esh size
H. Screen joint, top ft. MS	L or 5.0 ft.	- 1/31 / a	Red Flint #40  Volume added	11.5 f	<del>, 3</del>	
I. Well bottom ft. MS	L or 15.0 ft.	Western T.	ell casing:	Flush threaded PVC se	-	<b>-</b> 23
	M			Flush threaded PVC se		
J. Filter pack, bottomft. MS	L or 15.5 ft.				Other	
	15.5 0	10. Sc	creen material:	PVC schedule 40		
K. Borehole, bottom ft. MS	L or 19.9 ft.	a.	Screen type:		Factory cut	
8 25				Con	tinuous slot	0 1
L. Borehole, diameter $-\frac{8.25}{-}$ in.		/ -		<u></u>	Other	
M. O.D. well casing		b. c.	Manufacturer Slot size:	Johnson Screens		010 in.
<del>-</del>		d.	Slotted length:	:	_	_10_ft.
N. I.D. well casing $\begin{bmatrix} 2.067 \\ \end{bmatrix}$ in.		11. Ba	ackfill material	(below filter pack):	None	<b>-</b> 14
		_			Other [	
I hereby certify that the information on this	form is true and correct to the	best of my knowled	ige.			
Signature	Firm					
1/1/20	Endpoint Sol	utions Corporation				

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 282, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent

State of Wisconsin Department of Natural Resources

### MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Waste	water	Waste Management		
Remediation/Rede	evelopment	Other		
Facility/Project Name	County Name		Well Name	
Tyco Fire Protection Products LP	Marinette		MW-105D-F	₹
Facility License, Permit or Monitoring Number	County Code 38	Wis. Unique Well Nu	1 4 0 2	DNR Well ID Number — — —
1. Can this well be purged dry?	es 🗆 No	11. Depth to Water	Before Dev	velopment After Development
2. Well development method			a 1.	$\frac{4}{8}$ ft. $\frac{4}{2}$ $\frac{0}{1}$ $\frac{1}{1}$ ft.
surged with bailer and bailed	<b>1</b> 1	well casing)		
surged with bailer and pumped	5 1			
surged with block and bailed	12	Date	$\frac{07}{27}$	$\frac{1}{d} / \frac{2023}{y y y} = \frac{07}{m m} / \frac{27}{d} / \frac{2023}{y y y}$
surged with block and pumped	5 2		$\frac{m}{m}$ $\frac{d}{d}$	dyyyy mmdddyyyy
surged with block, bailed and pumped 📋 🦪	7 0		11 10	$3  \boxed{ a.m. } $ $2  2  2  2  2  2  2  2  2  2 $
	20	Time	c ' <del>4</del> : _ ' c	$\frac{1}{2} \cdot \mathbf{p.m.}  \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \mathbf{p.m.}$
<del>-</del>	1 0		4	0 0
	5 1	12. Sediment in well		$\underline{0}$ inches $\underline{0}$ $\underline{0}$ inches
	5 0	bottom		
Other		13. Water clarity	Clear ☐ 1 Turbid ☐ 1	
3. Time spent developing well	60 min.		(Describe) Brown / Ver	( <b>Describe</b> ) ry turbid Slightly Gray and turbid
4. Depth of well (from top of well casisng) $=$ $=$ $\frac{4}{}$	0 8 ft.			
5. Inside diameter of well2.	0 <u>0</u> in.			
6. Volume of water in filter pack and well casing34	4 8 gal.	Fill in if drilling fluid	s were used a	nd well is at solid waste facility:
7. Volume of water removed from well5_0	0 gal.			mg/l mg/l
8. Volume of water added (if any)	gal.	solids		· _ mg/i · _ mg/i
9. Source of water added		15. COD		mg/l mg/l
		16. Well developed by	y: Name (first, l	last) and Firm
10. Analysis performed on water added?	es 🖸 No	1		Last Name: Johnson
(if you, dillost rosate)		Firm: Endpoint Sol	utions Corpora	ation
17. Additional comments on development:		•		
Well was purged dry three times.				
Name and Address of Facility Contact/Owner/Responsible	le Party	I hereby certify the	t the above in	formation is true and correct to the best
First Last		of my knowledge.		
Name: Name:			<del>//</del>	
Facility/Firm:		Signature:	129	
Street:		Print Name: Ryan Jo	ofinson	
City/State/Zip:		Firm: Endpoint	t Solutions Co	rporation

State of Wisconsin Department of Natural Resources

### MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Waste	water	Waste Management					
Remediation/Rede	evelopment	Other					
Facility/Project Name	County Name		Well Name				
Tyco Fire Protection Products LP	Marinette		MW-105M-F	₹			
Facility License, Permit or Monitoring Number	County Code  38	Wis. Unique Well Nu	0 4 0 1	DNR W	ell ID Number — — —		
1. Can this well be purged dry?	es 🗆 No	11. Depth to Water			t After Development		
<del>-</del>	1	(from top of well casing)	a	4 9 ft.	2 <u>9</u> 0 <u>7</u> ft.		
surged with block and bailed	5 1 1 2 5 2	Date	b. $\frac{0.7}{m} / \frac{2.7}{d}$	$\frac{1}{v} / \frac{202}{v}$	$\frac{23}{y} = \frac{07}{m} / \frac{27}{d} / \frac{2023}{y}$		
surged with block, bailed and pumped 📋 7	7 0 2 0				$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
bailed only 1 pumped only 5	0	12. Sediment in well	_ 4.	0 inches	$\underline{}$ $\underline{}$ $\underline{}$ $\underline{}$ inches		
	50	bottom  13. Water clarity	Clear [] 1 Turbid [] 1		Clear ☐ 20 Turbid  25		
3. Time spent developing well	70 min.		(Describe) Black / Very	/ turbid	(Describe) Slightly Gray and turbid		
4. Depth of well (from top of well casisng) 2							
5. Inside diameter of well2	0 in.						
	0 gal.	Fill in if drilling fluid	is were used a	nd well is	at solid waste facility:		
7. Volume of water removed from well4_2	0	_		· <sup>mg/l</sup>	mg/l		
8. Volume of water added (if any)	gai.	solids		_			
9. Source of water added		15. COD			mg/l		
10. Analysis performed on water added?	es 🖸 No	16. Well developed by First Name: Ryan	y: Name (first, I		m ne: Johnson		
		Firm: Endpoint Solutions Corporation					
17. Additional comments on development:							
Well was purged dry three times.							
Name and Address of Facility Contact / Owner/Responsibl  First Last  Name: Name:	e Party	I hereby certify that of my knowledge.	t the above inf	formation	is true and correct to the best		
Facility/Firm:		Signature;	13/g_				
Street:		Print Name: Ryan Jo	ohnson				
City/State/Zip:		Firm: Endpoin	t Solutions Co	rporation			

State of Wisconsin Department of Natural Resources

### MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Waste	ewater	Waste Management			
Remediation/Red	levelopment	Other			
Facility/Project Name	County Name		Well Name		
Tyco Fire Protection Products LP	Marinette		MW-105S-F	₹	
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well No.	umber 0 4 0 0	DNR We	ell ID Number — — —
1. Can this well be purged dry?	es 🖪 No	11. Depth to Water			t After Development
surged with bailer and pumped surged with block and bailed surged with block and pumped surged with block, bailed and pumped compressed air bailed only pumped only pumped slowly	41 61 42 62 70 20 10 51	well casing)  Date	b. $\frac{0.7}{m} / \frac{2.7}{d}$ c. $\frac{1.4}{m} : \frac{0.5}{m}$	$\frac{1}{y} / \frac{202}{y}$ $\frac{1}{y} \frac{202}{y}$ $\frac{1}{y} \frac{a.m.}{p.m.}$	$\frac{23}{y} \frac{07}{m} \frac{27}{m} \frac{27}{d} \frac{2023}{y} \frac{3}{y}$ $\frac{14}{y} \frac{49}{y} \frac{a.m.}{p.m.}$ $\frac{0}{y} \frac{0}{y} \frac{1}{y} \frac{a.m.}{y}$
Other		13. Water clarity	Clear ☐ 1 Turbid ☐ 1		Clear □ 20 Turbid□ 25
	3 5 min.		(Describe) Black / Very	/ turbid	( <b>Describe</b> ) Clear
5. Inside diameter of well	in.				
7. Volume of water removed from well3_	2. 2 gal. 5. 0 gal gal.			mg/l mg/l	at solid waste facility:mg/lmg/l
10. Analysis performed on water added? Y (If yes, attach results)	es · No	First Name: Ryan Firm: Endpoint Sol		Last Nan	ne: Johnson
17. Additional comments on development:		1 1111111 = 1/10   1/10			
	I. D.				
Name and Address of Facility Contact / Owner/Responsib  First Last  Name: Name:	le Party	I hereby certify that of my knowledge.	at the above in	formation	is true and correct to the best
Facility/Firm:		Signature;	129		
Street:		Print Name: Ryan Jo	ofinson		
City/State/Zip:		Firm: Endpoin	t Solutions Co	rporation	



# **ANALYTICAL REPORT**

# Attn: Mr. Kirk Kapfhammer **Endpoint Solutions Corp** 6871 S. Lover's Lane

PREPARED FOR

Generated 9/5/2023 7:19:38 AM

Franklin, Wisconsin 53132

# JOB DESCRIPTION

Tyco Fire Products LP RUSH

# **JOB NUMBER**

500-238644-2

**Eurofins Chicago** 2417 Bond Street University Park IL 60484

# **Eurofins Chicago**

#### **Job Notes**

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

#### **Authorization**

Generated 9/5/2023 7:19:38 AM

Authorized for release by Sandie Fredrick, Project Manager II Sandra.Fredrick@et.eurofinsus.com (920)261-1660

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Client: Endpoint Solutions Corp Project/Site: Tyco Fire Products LP RUSH Laboratory Job ID: 500-238644-2

# **Table of Contents**

Cover Page	1
Table of Contents	3
Case Narrative	4
Detection Summary	5
Method Summary	6
Sample Summary	7
Client Sample Results	8
	10
QC Association	11
QC Sample Results	12
Chronicle	13
Certification Summary	14
Chain of Custody	15
Receipt Checklists	16
Field Data Sheets	18

11

12

14

#### **Case Narrative**

Client: Endpoint Solutions Corp

Job ID: 500-238644-2 Project/Site: Tyco Fire Products LP RUSH

Job ID: 500-238644-2

**Laboratory: Eurofins Chicago** 

**Narrative** 

**Job Narrative** 500-238644-2

#### Receipt

The samples were received on 8/25/2023 9:50 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 time was 0.8°C

#### Metals

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

# **Detection Summary**

Client: Endpoint Solutions Corp
Project/Site: Tyco Fire Products LP RUSH

Client Sample ID: Coal Dock WC Lab Sample ID: 500-238644-1

No Detections.

Client Sample ID: Coal Dock WC Dup1 Lab Sample ID: 500-238644-2

No Detections.

Job ID: 500-238644-2

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# **Method Summary**

Client: Endpoint Solutions Corp

Project/Site: Tyco Fire Products LP RUSH

Method **Method Description** Protocol Laboratory 6010D Metals (ICP) SW846 EET DEN TCLP Extraction SW846 EET DEN 1311 3010A Preparation, Total Metals SW846 EET DEN

#### **Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Job ID: 500-238644-2

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# **Sample Summary**

Client: Endpoint Solutions Corp

Project/Site: Tyco Fire Products LP RUSH

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 500-238644-1
 Coal Dock WC
 Solid
 08/22/23 13:00
 08/25/23 09:50

 500-238644-2
 Coal Dock WC Dup1
 Solid
 08/22/23 13:00
 08/25/23 09:50

Job ID: 500-238644-2

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# **Client Sample Results**

Client: Endpoint Solutions Corp Job ID: 500-238644-2

Project/Site: Tyco Fire Products LP RUSH

Client Sample ID: Coal Dock WC Lab Sample ID: 500-238644-1

Date Collected: 08/22/23 13:00 Matrix: Solid

Date Received: 08/25/23 09:50

Method: SW846 6010D - Metals	s (ICP) - TCLP							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.022	0.075	0.022	mg/L		08/30/23 14:35	09/01/23 07:52	1

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# **Client Sample Results**

Client: Endpoint Solutions Corp Job ID: 500-238644-2

Project/Site: Tyco Fire Products LP RUSH

Client Sample ID: Coal Dock WC Dup1 Lab Sample ID: 500-238644-2

Date Collected: 08/22/23 13:00 East Solid

Date Received: 08/25/23 09:50

Method: SW846 6010D - Metals (ICP) - TCLP

 Analyte
 Result Arsenic
 Qualifier
 RL 0.022
 MDL 0.075
 Unit 0.022
 D 0.075
 Prepared 0.022
 Analyzed 0.01/23 07:56
 Dil Fac 0.022

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# **Definitions/Glossary**

Client: Endpoint Solutions Corp Job ID: 500-238644-2

Project/Site: Tyco Fire Products LP RUSH

#### Glossary

**PRES** 

QC

RER

RL RPD

TEF

TEQ TNTC Presumptive

**Quality Control** 

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

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

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

# **QC Association Summary**

Client: Endpoint Solutions Corp Project/Site: Tyco Fire Products LP RUSH

# Job ID: 500-238644-2

#### **Metals**

#### Leach Batch: 624507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238644-1	Coal Dock WC	TCLP	Solid	1311	
500-238644-2	Coal Dock WC Dup1	TCLP	Solid	1311	
LB 280-624507/1-B	Method Blank	TCLP	Solid	1311	
LCS 280-624507/2-B	Lab Control Sample	TCLP	Solid	1311	

#### **Prep Batch: 624684**

<b>Lab Sample ID</b> 500-238644-1	Client Sample ID Coal Dock WC	Prep Type TCLP	Matrix Solid	Method 3010A	Prep Batch 624507
500-238644-2	Coal Dock WC Dup1	TCLP	Solid	3010A	624507
LB 280-624507/1-B	Method Blank	TCLP	Solid	3010A	624507
LCS 280-624507/2-B	Lab Control Sample	TCLP	Solid	3010A	624507

#### Analysis Batch: 624993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238644-1	Coal Dock WC	TCLP	Solid	6010D	624684
500-238644-2	Coal Dock WC Dup1	TCLP	Solid	6010D	624684
LB 280-624507/1-B	Method Blank	TCLP	Solid	6010D	624684
LCS 280-624507/2-B	Lab Control Sample	TCLP	Solid	6010D	624684

## **QC Sample Results**

Client: Endpoint Solutions Corp Job ID: 500-238644-2

Project/Site: Tyco Fire Products LP RUSH

Method: 6010D - Metals (ICP)

Lab Sample ID: LB 280-624507/1-B **Client Sample ID: Method Blank** 

**Matrix: Solid** 

**Analysis Batch: 624993** 

**Prep Type: TCLP** Prep Batch: 624684 LB LB

**MDL** Unit Dil Fac Analyte Result Qualifier RL Prepared Analyzed <del>08/30/23 14:35</del> <del>09/01/23 07:23</del> 0.075 0.022 mg/L Arsenic <0.022

Lab Sample ID: LCS 280-624507/2-B **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: TCLP** 

**Analysis Batch: 624993** 

LCS LCS Spike

%Rec **Analyte** Added Result Qualifier Unit D %Rec Limits 8.00 7.69 96 80 - 118 Arsenic mg/L

**Prep Batch: 624684** 

#### **Lab Chronicle**

Client: Endpoint Solutions Corp

Project/Site: Tyco Fire Products LP RUSH

Lab Sample ID: 500-238644-1

Lab Sample ID: 500-238644-2

**Matrix: Solid** 

**Matrix: Solid** 

Job ID: 500-238644-2

**Client Sample ID: Coal Dock WC** 

Date Collected: 08/22/23 13:00 Date Received: 08/25/23 09:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
TCLP	Leach	1311			624507	DFB1	EET DEN	08/28/23 16:24
TCLP	Prep	3010A			624684	MSM	EET DEN	08/30/23 14:35
TCLP	Analysis	6010D		1	624993	BN	EET DEN	09/01/23 07:52

Client Sample ID: Coal Dock WC Dup1

Date Collected: 08/22/23 13:00 Date Received: 08/25/23 09:50

Batch Batch Dilution **Batch** Prepared **Prep Type** Туре Method Run **Factor** Number Analyst or Analyzed Lab 08/28/23 16:24 TCLP 1311 624507 DFB1 Leach EET DEN **TCLP** 3010A Prep 624684 MSM EET DEN 08/30/23 14:35 TCLP 09/01/23 07:56 Analysis 6010D 624993 BN EET DEN 1

**Laboratory References:** 

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# **Accreditation/Certification Summary**

Client: Endpoint Solutions Corp

Project/Site: Tyco Fire Products LP RUSH

Job ID: 500-238644-2

#### **Laboratory: Eurofins Denver**

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-23 *
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
lowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23 *
Virginia	NELAP	12037	06-14-23 *
Washington	State	C583-19	08-03-23 *
West Virginia DEP	State	354	11-30-23
Wyoming (UST)	A2LA	2907.01	10-31-22 *

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 $<sup>^{\</sup>star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$ 

Eurofins Chicago

# **Eurofins Chicago**

2417 Bond Street

University Park, IL 60484 Phone: 708-534-5200 Fax: 708-534-5211

**Chain of Custody Record** 

Environment Testing

💸 eurofins

500-178296.1	Page:	Page 1 of 1	Job #: 500-238644-1	ğ	H cetate	D - Nitric Acid Q - Na2O4S E - NaHSO4 R - Na2S2O3	Ë		K - EDTA W - PH 4-5 Y - Trizma L - EDA Z - other (specify)	Other:	Special Instructions/Note:	2					
, ,			7 47					_	_	-	redmuN lstoT	X	-	-	par gar anter	- 4	
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arner irac	State of Origin:	Wisconsin		ested													
3	Ü,	<b>≤</b>		Analysis Requested													
		mo	::	lysis							-57						
		Sandra.Fredrick@et.eurofinsus.com	Accreditations Required (See note): State - Wisconsin	Ana	7	IUD	SIA	M-	-11	151	10100	$\vdash$	7	+			
		eurofi	sined (S								Moisture		×	,			
Φ		k@et.	Accreditations Require State - Wisconsin				(	CVAA	rcury (	rep Me	9_81747\81747		×				
Lab Pin: Fredrick, Sandie		redric	ditatior e - Wi					lov			6010D/3050B R		×				 _
ick K		ira.Fr	Accre State				(0				Field Filtered Perform MS/N						$\vdash$
Fredric	F-Mail:	Sanc		J HS							W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Solid	S			
				1123 TOLD 195							Sample Type (C=comp, G=grab)	Preserva					
				6	1						Sample	X	13:00 Central	$\vdash$			
	Phone:			Due Date Requested: 9/11/2023	TAT Requested (days):		PO #:	: WO #:	Project #: 50016218	SSOW#:	Sample Date	$\bigvee$	8/22/23	8111118			
Client Information (Sub Contract Lab)	Client Contact:	Shipping/Receiving	Company: TestAmerica Laboratories, Inc.	Address: 4955 Yarrow Street, ,	City. Arvada	State, Zip: CO, 80002	Phone: 303-736-0100(Tel) 303-431-7171(Fax)	Email:	Project Name: Tyco Fire Products LP RUSH	Site:	Sample Identification - Client ID (Lab ID)		Coal Dock WC (500-238644-1)	(Dat DOCK MC DUP (500-238644-2)			

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/fests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attenting in mediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago. Sample Disposal ( A foo Possible Hazard Identification

				Sample Disposal (A fee final be assessed it samples are retained forget than 1 month)	samples are retained foriger than	r monen)
	Unconfirmed			Return To Client Disposal By Lab	Lab Archive For	Months
	Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2		Requi		
	Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
	Relinquished by: / Hanney	Date/Time: SIA5/A3 (740)	Company FERTA	Received by:	Date/Time 033 935 SEIDEA	Company
9/5/	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
2023	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Custody Seals Intact: Custody Seal No.:			Cooler, Temperature(s) °C and Other Remarks:	DW	
			15	9 0 1 2 3	5 6 7 8	2 3 4

# **Login Sample Receipt Checklist**

Client: Endpoint Solutions Corp Job Number: 500-238644-2

Login Number: 238644 List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

oreator. Hernandez, Otephanie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
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	0.8
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	

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# **Login Sample Receipt Checklist**

Client: Endpoint Solutions Corp Job Number: 500-238644-2

Login Number: 238644
List Source: Eurofins Denver
List Number: 2
List Creation: 08/26/23 10:57 AM

**Creator: Martinez, Anthony** 

Creator: Martinez, Anthony		
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?	N/A	
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	

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# **Environment Testing America**

Sacramento Sample Receiving Notes

Tracking #: 618871978415

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

Sob:

GSL / OnTrac / Goldstreak / USPS / Other

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: LD(o Corr. Factor: (+/-) _ °C   Corrected: Sq °C Corrected: Sq °C   Corrected:	Notes: Cooler out of  tamp. Cooling accent  Drovided however  not enough to cool  the Sample to an  acceptable tamp of
Opening/Processing The Shipment Cooler compromised/tampered with?  Cooler Temperature is acceptable?  Frozen samples show signs of thaw?  Initials:  Date:	20 Lamp blank.  20.0633
Unpacking/Labeling The Samples Containers are not broken or leaking?  Samples compromised/tampered with?  COC is complete w/o discrepancies  Sample custody seal?  Sample containers have legible labels?  Sample date/times are provided?  Appropriate containers are used?  Sample bottles are completely filled?  Sample preservatives verified?  Is the Field Sampler's name on COC?  Samples w/o discrepancies?  Zero headspace?*	Trizma Lot #(s):  Ammonium Acetate Lot #(s):
Alkalinity has no headspace?  Perchlorate has headspace?  (Methods 314, 331, 6850)  Multiphasic samples are not present?  *Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4*)  Initials:  Date:	Login Completion Receipt Temperature on COC?  NCM Filed? Log Release checked in TALS?  Date: 8-06-73

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WZ?—Page 18 of 18

QA-812 MBB 2023-06-22

9/5/2023

2

5

6

8

10

11

JCI: 2023 Outfall 001 Stormwater Separation







Photo: 1

Date: 09-14-2023

#### **Description:**

Waste soil containment from Coal Dock stockpiled near the Salt Vault. Stockpile area, approximately 50% area filled with soil. All soil piles are covered & tarped at the end of each day.

Street sweeping around stockpile completed end of day 9/14/2023.

## Location:

Salt Vault

#### **Photograph Taken By:**

Tyrone Lee

Direction: Southwest Photo: 2

Date: 09-14-2023

#### **Description:**

End of day soil stockpile covered with tarps, tarps weighed down, and area secured.

700-1,000 CY soil stockpiled.

Location: Salt Vault

#### Photograph Taken By:

Tyrone Lee

#### Direction:

Southwest

arcadis.com 1/9

JCI: 2023 Outfall 001 Stormwater Separation





Photo: 3

Date: 09-14-2023

#### **Description:**

End of day soil stockpile covered with tarps, tarps weighed down, and area secured. Estimated 700-1,000 CY in stockpile containment.

**Location:** Salt Vault

Photograph Taken By:

Tyrone Lee

**Direction:** Southeast



Date: 09-18-2023

**Description:** 

Soil containment pile. Properly covered at end of day. 50x35x10ft. Approx. 1,000-1,200 CY of soil.

Location:

Salt Vault

**Photograph Taken By:** 

2/9

Owen Martzke

**Direction:** 

West



arcadis.com

JCI: 2023 Outfall 001 Stormwater Separation





Photo: 5

Date: 09-19-2023

#### **Description:**

Soil containment pile. Properly covered end of day. No soil added or removed. 50x35x10ft Approx. 1,000-1,200 CY of soil.

**Location:** Salt Vault

Photograph Taken By:

Owen Martzke

**Direction:** West



Photo: 6

Date: 09-20-2023

**Description:** 

Soil containment pile. No soil added or removed. Properly covered. 50x35x10ft

**Location:** Salt Vault

**Photograph Taken By:** 

Owen Martzke

**Direction:** West

arcadis.com 3/9

JCI: 2023 Outfall 001 Stormwater Separation





Photo: 7

Date: 09-21-2023

**Description:** 

Begin removal of Soil Containment Pile, loading into

roll off boxes.

Location: Salt Vault

Photograph Taken By: Owen Martzke

Direction:

Southwest



Photo: 8

Date: 09-21-2023

**Description:** 

Soil Containment Pile Cleanup. Properly covered. 25x35x10ft

Approx. 300 CY remaining to be loaded into roll off boxes.

Location:

Salt Vault

Photograph Taken By: Owen Martzke

**Direction:** 

East

arcadis.com 4/9

JCI: 2023 Outfall 001 Stormwater Separation





Photo: 9

Date: 09-22-2023

**Description:** 

Soil containment pile - empty. 58 roll off containers filled and transported for disposal.

Location: Salt Vault

Photograph Taken By: Owen Martzke

Direction: West



Photo: 10

Date: 09-22-2023

**Description:** 

Soil containment pile - empty. Entrance bermed with silt sock and street sweeper cleaned remaining dirt around the stockpile area as necessary.

Location: Salt Vault

Photograph Taken By:

Owen Martzke

Direction:

West

arcadis.com 5/9