

October 15, 2018

Mr. Conor Neal  
Geologist  
EPA Region 5  
Land & Chemicals Division  
77 West Jackson Blvd, LU-9J  
Chicago, IL 60604-3590

Subject: Quarterly Progress Report (July through September 2018)  
Administrative Order on Consent (February 26, 2009)  
Tyco Fire Products LP  
Stanton Street Facility  
Marinette, Wisconsin  
WID 006 125 215

Dear Mr. Neal:

Section VI, 21, b (Page 10) of the Administrative Order on Consent (AOC), dated February 26, 2009, requires Tyco Fire Products LP (Tyco) to submit quarterly progress reports to the U.S. Environmental Protection Agency (USEPA) Region 5 and the Wisconsin Department of Natural Resources (WDNR). The reports are required to document activities conducted as part of the Resource Conservation and Recovery Act (RCRA) Corrective Actions at the Tyco facility in Marinette, Wisconsin. The enclosed report covers the period from July 1, 2018 through September 30, 2018, and presents a brief description of the work completed to date, data collected, problems encountered, and schedule of activities as required by the February 2009 AOC.

### **Work Completed During this Reporting Period**

Operation of the groundwater collection and treatment system (GWCTS) continued through the third quarter of 2018. A summary of the operational data is included as Attachment 1. The Discharge Monitoring Reports (DMRs) are included in Attachment 2.

Substantial tightening and sealing of the tieback back system in the main plant was completed on August 14, 2018. River levels were noted as being high continuing a trend dating back to last year.

The Spring Barrier Wall Groundwater Monitoring Plan Update (BWGMPU) groundwater sampling event was completed the Week of September 17, 2018. Laboratory results from this event are included in Attachment 3.

The temporary dewatering system was continued in the third quarter of 2018 under management by endpoint solutions. Progress reports are being submitted bi-weekly.

## **Additional Activities**

Tyco completed the quarterly download of data from the transducers installed in prescribed monitoring wells on September 12, 2018. Manual groundwater elevation data was obtained at each transducer location for calibration of the data at the time of the download. Manual groundwater elevation data were also collected from the former 8<sup>th</sup> Street Slip and former Salt Vault areas throughout the quarter in accordance with the pump down program requirements. The 5 year sediment sampling event was completed between July 9 and July 19, 2018.

Extraction wells EW-13 and EW-14 were cleaned out the week of September 17, 2018 in an attempt to enhance aquifer communication and increase overall recovery rates in the former Salt Vault area.

Monitoring well MW118D was appropriately abandoned on August 27, 2018. During manual water level data collected, the well appeared to have a casing offset at approximately 25 feet below grade, potentially indicating data quality could be suspect; therefore, the well was abandoned.

The flush-mount covers and surrounding area at the MW040 well nest were repaired and the casing was extended and stick-up protective pipes were added to monitoring well nest MW105 between August 28 and 29, 2018. Resurvey of the well casing elevation is pending

## **Data Collected**

Extraction and treatment volumes, analytical testing, and discharge data are required as part of the Wisconsin Pollutant Discharge and Elimination System (WPDES) permits obtained from WDNR for operation of the GWCTS. The GWCTS operates under permit WPDES WI-0001040-07-0. Attachment 2 includes the monthly WPDES DMRs for June 2018 through August 2018 for the GWCTS. Additional data on the operation of the GWCTS is included in Attachment 1.

Barrier monitoring well sample was completed and laboratory results received. The data are currently undergoing data validation. Sediment samples were collected and laboratory results received. The USEPA sample results were also received for incorporation into the sediment quality evaluation. Additional sediment samples have been selected for laboratory analysis to support the evaluation.

## **Problems Encountered**

River water levels have been high throughout summer. On a few occasions in September, the river water level reached high enough to lap over the Vertical Barrier Wall into the wetland area of the site. This additionally contributed to increased groundwater levels in that area. The Groundwater Collection system experienced fouling issues on the RO and VSEP systems attributed in August and September to high TDS in the process waters. This issue was corrected, but was then followed by issues in VSEP programming which have caused considerable downtime during this past quarter.

## Schedule of Upcoming Activities

The following is a summary of activities to be conducted during the next reporting period.

- Submit the quarterly progress report.
- Meet with USEPA and WDNR to discuss project status and upcoming activities, including barrier monitoring program enhancement, sediment sampling results, and WPDES permitting.
- Complete Storm Sewer Verification Sampling.
- Commence conveyance system construction of permanent PDP system.
- Continue work on 5 year review package.

## List of Key Correspondence and Document Submittals

**Table 1**

Documents Submitted

*Quarterly Progress Report (July through August 2018), Tyco Fire Products LP Facility, Marinette, Wisconsin*

| Description of Submittal                                  | Submitted To | Date Submitted              |
|---|--------------|-----------------------------|
| Final Conveyance Design Drawings                          | USEPA        | September 28, 2018          |
| PDP Bi-Weekly Reports                                     | USEPA        | Throughout Reporting Period |
| 2018 Sediment Monitoring Report                           | USEPA        | September 28, 2018          |
| MW-118D Well Abandonment Notification                     | WDNR         | September 10, 2018          |
| RTC on 2017 BWGMP Report                                  | USEPA        | August 27, 2018             |
| Presentation on Enhanced Monitoring Well Network Proposal | USEPA        | July 30, 2018               |

**Table 2**

Correspondence from Agency

*Quarterly Progress Report (July through August 2018) Tyco Fire Products LP Facility, Marinette, Wisconsin*

| Description of Correspondence     | Received From | Date Received      |
|-----------------------------------|---------------|--------------------|
| Agency Comments 2017 BWGMP Report | USEPA         | July 30, 2018      |
| USEPA Sediment Sample Results     | USEPA         | September 19, 2018 |

Please contact me at 715-587-6670 if you have any questions or require additional information.

Respectfully Yours,

Tyco Fire Products LP

*Ryan Suennen*

Ryan Suennen  
Environmental Field Projects

**Attachments**

- 1 GWCTS Operation Summary
- 2 DMRs for the GWCTS
- 3 BWGMPU sample results

cc: Angela Carey, WDNR  
Jim Killian, WDNR  
Joe Janeczek, Johnson Controls  
Rich Mator, Johnson Controls  
Jeff Danko, Tyco  
Mariel Carter, Stephenson Public Library

Document Control No.: 20171015 US10.11014



**Attachment 1**  
**GWCTS Operation Summary**

MEMORANDUM

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## Groundwater Collection and Treatment System Operation

SUBJECT: Groundwater Collection and Treatment System Operation for Tyco  
Fire Products LP, Marinette, Wisconsin

DATE: October 15, 2018

Operation of the groundwater collection and treatment system (GWCTS) occurring from July 1, 2017 through September 30, 2017 is summarized below:

- The GWCTS operated for 22 days in July, 6 days in August, and 0 days in September, for a total of 28 days.
- Approximately 86,700 gallons of reject water was produced during system operations and subsequently disposed of off-site.
- The precipitation recorded from the weather station in Marinette, Wisconsin was 15.43 inches of rain. (<https://www.ncdc.noaa.gov/cdo-web/datasets/GHCND/stations/GHCND:USC00475091/detail>).
- An estimated total of 390,872 gallons was discharged to the Menominee River as effluent under WPDES permit.
- An estimated total of 350,113 gallons of groundwater were extracted (not including volumes extracted as part of the pump down program) from the site during the reporting period. Details of water volumes extracted from each area of the site and changes in water levels are shown in the Table 1 below.

Table 1 - Extraction Well Data Summary

| Extraction Well | Gallons Run Q3 2018<br>(7/01/2018-9/30/2018) |
|-----------------|--|
| EW-1            | 30,977                                       |
| EW-2            | 29   |
| EW-3            | 1,102  |
| EW-4            | 1,241  |
| EW-5            | 67,979                                       |
| EW-6            | 147,432                                      |
| EW-7            | 102,594                                      |
| Total           | 351,354                                      |

**Attachment 2**  
**DMRs**



**Wastewater Discharge Monitoring Long Report**

**For DNR Use Only**

Facility Name: TYCO FIRE PROTECTION PRODUCTS LP  
 Contact Address: One Stanton St  
 Marinette, WI 54143  
 Facility Contact: Mike Elliott, EHS Manager  
 Phone Number: 715-735-7411  
 Reporting Period: 07/01/2018 - 07/31/2018  
 Form Due Date: 08/21/2018  
 Permit Number: 0001040

Date Received:  
 DOC: 406454  
 FIN: 7245  
 FID: 438039470  
 Region: Northeast Region  
 Permit Drafter: Trevor J Moen  
 Reviewer: Nicole E Krueger  
 Office: Green Bay

| Sample Point   | 001                      | 703                        | 001                      | 001                      | 001                      |     |
|----------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|-----|
| Description    | PRIOR TO MENOMINEE RIVER | Intake Water Monitoring    | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER |     |
| Parameter      | 211                      | 280                        | 487                      | 374                      | 373                      |     |
| Description    | Flow Rate                | Mercury, Total Recoverable | Temperature              | pH (Minimum)             | pH (Maximum)             |     |
| Units          | MGD                      | ng/L                       | degF                     | su                       | su                       |     |
| Sample Type    | CONTINUOUS               | GRAB                       | GRAB                     | CONTINUOUS               | CONTINUOUS               |     |
| Frequency      | DAILY                    | MONTHLY                    | MONTHLY                  | DAILY                    | DAILY                    |     |
| Sample Results | <b>Day 1</b>             | 0.25457                    |                          | 82                       | 6.2                      | 7.4 |
|                | <b>2</b>                 | 0.15115                    |                          | 78                       | 6.7                      | 6.9 |
|                | <b>3</b>                 | 0.13408                    |                          | 81                       | 6.7                      | 7.4 |
|                | <b>4</b>                 | 0.16765                    |                          | 84                       | 6.1                      | 7.9 |
|                | <b>5</b>                 | 0.14317                    |                          | 81                       | 6.6                      | 7.4 |
|                | <b>6</b>                 | 0.12999                    |                          | 79                       | 6.8                      | 7.2 |
|                | <b>7</b>                 | 0.12781                    |                          | 78                       | 7.1                      | 7.5 |
|                | <b>8</b>                 | 0.14079                    |                          | 77                       | 7.1                      | 7.8 |
|                | <b>9</b>                 | 0.16055                    |                          | 80                       | 6.8                      | 7.6 |
|                | <b>10</b>                | 0.15707                    |                          | 79                       | 6.7                      | 7.5 |
|                | <b>11</b>                | 0.15913                    |                          | 79                       | 7.0                      | 7.4 |
|                | <b>12</b>                | 0.18894                    |                          | 78                       | 6.5                      | 7.2 |
|                | <b>13</b>                | 0.12900                    |                          | 80                       | 6.6                      | 7.2 |
|                | <b>14</b>                | 0.11532                    |                          | 78                       | 6.8                      | 7.3 |
|                | <b>15</b>                | 0.12227                    |                          | 71                       | 6.7                      | 7.6 |
|                | <b>16</b>                | 0.16050                    |                          | 78                       | 6.6                      | 6.7 |
|                | <b>17</b>                | 0.15809                    |                          | 78                       | 6.8                      | 7.8 |
|                | <b>18</b>                | 0.15787                    |                          | 87                       | 7.7                      | 8.4 |
|                | <b>19</b>                | 0.15317                    |                          | 80                       | 7.3                      | 8.2 |
|                | <b>20</b>                | 0.15122                    |                          | 79                       | 7.3                      | 7.8 |
|                | <b>21</b>                | 0.10083                    |                          | 78                       | 7.3                      | 7.8 |
|                | <b>22</b>                | 0.08045                    |                          | 80                       | 7.1                      | 7.6 |
|                | <b>23</b>                | 0.15520                    |                          | 80                       | 7.0                      | 7.3 |
|                | <b>24</b>                | 0.18805                    |                          | 83                       | 7.1                      | 7.8 |
|                | <b>25</b>                | 0.17473                    |                          | 81                       | 6.8                      | 7.6 |
|                | <b>26</b>                | 0.13596                    | 3.6                      | 81                       | 7.0                      | 7.4 |
|                | <b>27</b>                | 0.09097                    |                          | 79                       | 7.0                      | 7.4 |
|                | <b>28</b>                | 0.00351                    |                          | 82                       | 7.0                      | 7.6 |
|                | <b>29</b>                | 0.06030                    |                          | 83                       | 7.0                      | 7.2 |
|                | <b>30</b>                | 0.14711                    |                          | 81                       | 6.9                      | 7.1 |
|                | <b>31</b>                | 0.15327                    |                          | 82                       | 7.0                      | 7.8 |

|                           | Sample Point                | 001                      | 703                        | 001                      | 001                      | 001                      |
|---------------------------|-----------------------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|
|                           | Description                 | PRIOR TO MENOMINEE RIVER | Intake Water Monitoring    | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER |
|                           | Parameter                   | 211                      | 280                        | 487                      | 374                      | 373                      |
|                           | Description                 | Flow Rate                | Mercury, Total Recoverable | Temperature              | pH (Minimum)             | pH (Maximum)             |
|                           | Units                       | MGD                      | ng/L                       | degF                     | su                       | su                       |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 0.140410323              | 3.6                        | 79.903225806             | 6.880645161              | 7.509677419              |
|                           | <b>Monthly Total</b>        |                          |                            |                          |                          |                          |
|                           | <b>Daily Max</b>            | 0.25457                  | 3.6                        | 87                       | 7.7                      | 8.4                      |
|                           | <b>Daily Min</b>            | 0.00351                  | 3.6                        | 71                       | 6.1                      | 6.7                      |
|                           | <b>Rolling 12 Month Avg</b> |                          |                            |                          |                          |                          |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                          |                            |                          |                          |                          |
|                           | <b>Monthly Total</b>        |                          |                            |                          |                          |                          |
|                           | <b>Daily Max</b>            |                          |                            |                          |                          | 11 0                     |
|                           | <b>Daily Min</b>            |                          |                            |                          | 4 0                      |                          |
|                           | <b>Rolling 12 Month Avg</b> |                          |                            |                          |                          |                          |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                          | 0.2                        |                          |                          |                          |
|                           | <b>LOQ</b>                  |                          | 0.5                        |                          |                          |                          |
|                           | <b>QC Exceedance</b>        | N                        | N                          | N                        | N                        | N                        |
|                           | <b>Lab Certification</b>    |                          | 721026460                  |                          |                          |                          |

|                       |                     |                                  |  |                          |                          |                            |
|-----------------------|---------------------|----------------------------------|--|--------------------------|--------------------------|----------------------------|
|                       | <b>Sample Point</b> | 001                              | 001                                    | 001                      | 001                      | 001                        |
|                       | <b>Description</b>  | PRIOR TO MENOMINEE RIVER         | PRIOR TO MENOMINEE RIVER               | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER   |
|                       | <b>Parameter</b>    | 379                              | 376                                    | 388                      | 231                      | 35                         |
|                       | <b>Description</b>  | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes | Phosphorus, Total        | Hardness, Total as CaCO3 | Arsenic, Total Recoverable |
|                       | <b>Units</b>        | minutes                          | Number                                 | mg/L                     | mg/L                     | ug/L                       |
|                       | <b>Sample Type</b>  | CONTINUOUS                       | CONTINUOUS                             | 24 HR COMP               | 24 HR COMP               | 24 HR COMP                 |
|                       | <b>Frequency</b>    | DAILY                            | DAILY                                  | WEEKLY                   | MONTHLY                  | MONTHLY                    |
| <b>Sample Results</b> | <b>Day 1</b>        |                                  |  |                          |                          |                            |
|                       | <b>2</b>            |                                  |  | 0.17                     | 270                      | 49                         |
|                       | <b>3</b>            |                                  |  |                          |                          |                            |
|                       | <b>4</b>            |                                  |  |                          |                          |                            |
|                       | <b>5</b>            |                                  |  |                          |                          |                            |
|                       | <b>6</b>            |                                  |  |                          |                          |                            |
|                       | <b>7</b>            |                                  |  |                          |                          |                            |
|                       | <b>8</b>            |                                  |  |                          |                          |                            |
|                       | <b>9</b>            |                                  |  | 0.27                     | 20                       | 22                         |
|                       | <b>10</b>           |                                  |  |                          |                          |                            |
|                       | <b>11</b>           |                                  |  |                          |                          |                            |
|                       | <b>12</b>           |                                  |  |                          |                          |                            |
|                       | <b>13</b>           |                                  |  |                          |                          |                            |
|                       | <b>14</b>           |                                  |  |                          |                          |                            |
|                       | <b>15</b>           |                                  |  |                          |                          |                            |
|                       | <b>16</b>           |                                  |  |                          |                          |                            |
|                       | <b>17</b>           |                                  |  |                          |                          |                            |
|                       | <b>18</b>           |                                  |  | 0.39                     | 240                      | 23                         |
|                       | <b>19</b>           |                                  |  |                          |                          |                            |
|                       | <b>20</b>           |                                  |  |                          |                          |                            |
|                       | <b>21</b>           |                                  |  |                          |                          |                            |
|                       | <b>22</b>           |                                  |  |                          |                          |                            |
|                       | <b>23</b>           |                                  |  | 0.18                     | 250                      | 32                         |
|                       | <b>24</b>           |                                  |  |                          |                          |                            |
|                       | <b>25</b>           |                                  |  |                          |                          |                            |
|                       | <b>26</b>           |                                  |  |                          |                          |                            |
|                       | <b>27</b>           |                                  |  |                          |                          |                            |
|                       | <b>28</b>           |                                  |  |                          |                          |                            |
|                       | <b>29</b>           |                                  |  |                          |                          |                            |
|                       | <b>30</b>           |                                  |  |                          |                          |                            |
|                       | <b>31</b>           |                                  |  |                          |                          |                            |

|                           | Sample Point         | 001                              |   | 001                                    |   | 001                      |   | 001                      |   |
|---------------------------|----------------------|----------------------------------|---|--|---|--------------------------|---|--------------------------|---|
|                           | Description          | PRIOR TO MENOMINEE RIVER         |   | PRIOR TO MENOMINEE RIVER               |   | PRIOR TO MENOMINEE RIVER |   | PRIOR TO MENOMINEE RIVER |   |
|                           | Parameter            | 379                              |   | 376                                    |   | 388                      |   | 231                      |   |
|                           | Description          | pH Total Exceedance Time Minutes |   | pH Exceedances Greater Than 60 Minutes |   | Phosphorus, Total        |   | Hardness, Total as CaCO3 |   |
|                           | Units                | minutes                          |   | Number                                 |   | mg/L                     |   | mg/L                     |   |
| <b>Summary Values</b>     | Monthly Avg          |                                  |   |  |   | 0.2525                   |   | 195                      |   |
|                           | Monthly Total        |                                  |   |  |   |                          |   |                          |   |
|                           | Daily Max            |                                  |   |  |   | 0.39                     |   | 270                      |   |
|                           | Daily Min            |                                  |   |  |   | 0.17                     |   | 20                       |   |
|                           | Rolling 12 Month Avg |                                  |   |  |   | 0.2                      |   |                          |   |
| <b>Limit(s) in Effect</b> | Monthly Avg          |                                  |   |  |   |                          |   |                          |   |
|                           | Monthly Total        | 446                              | 0 |  |   |                          |   |                          |   |
|                           | Daily Max            |                                  |   | 0                                      | 0 |                          |   | 680                      | 0 |
|                           | Daily Min            |                                  |   |  |   |                          |   |                          |   |
|                           | Rolling 12 Month Avg |                                  |   |  |   | 1                        | 0 |                          |   |
| <b>QA/QC Information</b>  | LOD                  |                                  |   |  |   | 0.024                    |   | 2.1                      |   |
|                           | LOQ                  |                                  |   |  |   | 0.05                     |   | 5                        |   |
|                           | QC Exceedance        | N                                |   | N                                      |   | N                        |   | N                        |   |
|                           | Lab Certification    |                                  |   |  |   | 999580010                |   | 999580010                |   |

|                       |                     |                               |                              |                              |                               |                             |
|-----------------------|---------------------|-------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------------|
|                       | <b>Sample Point</b> | 001                           | 001                          | 001                          | 001                           | 001                         |
|                       | <b>Description</b>  | PRIOR TO<br>MENOMINEE RIVER   | PRIOR TO<br>MENOMINEE RIVER  | PRIOR TO<br>MENOMINEE RIVER  | PRIOR TO<br>MENOMINEE RIVER   | PRIOR TO<br>MENOMINEE RIVER |
|                       | <b>Parameter</b>    | 35                            | 147                          | 147                          | 87                            | 152                         |
|                       | <b>Description</b>  | Arsenic, Total<br>Recoverable | Copper, Total<br>Recoverable | Copper, Total<br>Recoverable | Cadmium, Total<br>Recoverable | Cyanide, Amenable           |
|                       | <b>Units</b>        | lbs/day                       | ug/L                         | lbs/day                      | ug/L                          | ug/L                        |
|                       | <b>Sample Type</b>  | CALCULATED                    | 24 HR COMP                   | 24 HR COMP                   | 24 HR COMP                    | 24 HR COMP                  |
|                       | <b>Frequency</b>    | MONTHLY                       | MONTHLY                      | MONTHLY                      | MONTHLY                       | MONTHLY                     |
| <b>Sample Results</b> | <b>Day 1</b>        |                               |                              |                              |                               |                             |
|                       | <b>2</b>            | 0.06174                       | 3.3                          | 0.004158                     | <0.49                         |                             |
|                       | <b>3</b>            |                               |                              |                              |                               |                             |
|                       | <b>4</b>            |                               |                              |                              |                               |                             |
|                       | <b>5</b>            |                               |                              |                              |                               |                             |
|                       | <b>6</b>            |                               |                              |                              |                               |                             |
|                       | <b>7</b>            |                               |                              |                              |                               |                             |
|                       | <b>8</b>            |                               |                              |                              |                               |                             |
|                       | <b>9</b>            | 0.02948                       | 11                           | 0.01474                      | <0.49                         | 3.8                         |
|                       | <b>10</b>           |                               |                              |                              |                               |                             |
|                       | <b>11</b>           |                               |                              |                              |                               |                             |
|                       | <b>12</b>           |                               |                              |                              |                               |                             |
|                       | <b>13</b>           |                               |                              |                              |                               |                             |
|                       | <b>14</b>           |                               |                              |                              |                               |                             |
|                       | <b>15</b>           |                               |                              |                              |                               |                             |
|                       | <b>16</b>           |                               |                              |                              |                               |                             |
|                       | <b>17</b>           |                               |                              |                              |                               |                             |
|                       | <b>18</b>           | 0.03036                       | 10                           | 0.0132                       | <0.49                         |                             |
|                       | <b>19</b>           |                               |                              |                              |                               |                             |
|                       | <b>20</b>           |                               |                              |                              |                               |                             |
|                       | <b>21</b>           |                               |                              |                              |                               |                             |
|                       | <b>22</b>           |                               |                              |                              |                               |                             |
|                       | <b>23</b>           | 0.04128                       | 8.8                          | 0.011352                     | <0.49                         |                             |
|                       | <b>24</b>           |                               |                              |                              |                               |                             |
|                       | <b>25</b>           |                               |                              |                              |                               |                             |
|                       | <b>26</b>           |                               |                              |                              |                               |                             |
|                       | <b>27</b>           |                               |                              |                              |                               |                             |
|                       | <b>28</b>           |                               |                              |                              |                               |                             |
|                       | <b>29</b>           |                               |                              |                              |                               |                             |
|                       | <b>30</b>           |                               |                              |                              |                               |                             |
|                       | <b>31</b>           |                               |                              |                              |                               |                             |

|                           | Sample Point         | 001                        |   | 001                       |   | 001                       |   | 001                        |  |
|---------------------------|----------------------|----------------------------|---|---------------------------|---|---------------------------|---|----------------------------|--|
|                           | Description          | PRIOR TO MENOMINEE RIVER   |   | PRIOR TO MENOMINEE RIVER  |   | PRIOR TO MENOMINEE RIVER  |   | PRIOR TO MENOMINEE RIVER   |  |
|                           | Parameter            | 35                         |   | 147                       |   | 147                       |   | 87                         |  |
|                           | Description          | Arsenic, Total Recoverable |   | Copper, Total Recoverable |   | Copper, Total Recoverable |   | Cadmium, Total Recoverable |  |
|                           | Units                | lbs/day                    |   | ug/L                      |   | lbs/day                   |   | ug/L                       |  |
| <b>Summary Values</b>     | Monthly Avg          | 0.040715                   |   | 8.275                     |   | 0.0108625                 |   | 0                          |  |
|                           | Monthly Total        |                            |   |                           |   |                           |   |                            |  |
|                           | Daily Max            | 0.06174                    |   | 11                        |   | 0.01474                   |   | <0.49                      |  |
|                           | Daily Min            | 0.02948                    |   | 3.3                       |   | 0.004158                  |   | <0.49                      |  |
|                           | Rolling 12 Month Avg |                            |   |                           |   |                           |   |                            |  |
| <b>Limit(s) in Effect</b> | Monthly Avg          |                            |   |                           |   |                           |   |                            |  |
|                           | Monthly Total        |                            |   |                           |   |                           |   |                            |  |
|                           | Daily Max            | 12                         | 0 | 69                        | 0 | 0.98                      | 0 |                            |  |
|                           | Daily Min            |                            |   |                           |   |                           |   |                            |  |
|                           | Rolling 12 Month Avg |                            |   |                           |   |                           |   |                            |  |
| <b>QA/QC Information</b>  | LOD                  |                            |   | 1.7                       |   |                           |   | 0.49                       |  |
|                           | LOQ                  |                            |   | 5                         |   |                           |   | 1                          |  |
|                           | QC Exceedance        | N                          |   | N                         |   | N                         |   | N                          |  |
|                           | Lab Certification    |                            |   | 999580010                 |   |                           |   | 999580010                  |  |

|                       |                     |                             |                               |                             |                             |                             |
|-----------------------|---------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|
|                       | <b>Sample Point</b> | 001                         | 001                           | 101                         | 101                         | 101                         |
|                       | <b>Description</b>  | PRIOR TO<br>MENOMINEE RIVER | PRIOR TO<br>MENOMINEE RIVER   | Metal Finishing<br>Effluent | Metal Finishing<br>Effluent | Metal Finishing<br>Effluent |
|                       | <b>Parameter</b>    | 112                         | 280                           | 211                         | 457                         | 342                         |
|                       | <b>Description</b>  | Chlorine, Total<br>Residual | Mercury, Total<br>Recoverable | Flow Rate                   | Suspended Solids,<br>Total  | Oil & Grease (Freon)        |
|                       | <b>Units</b>        | ug/L                        | ng/L                          | MGD                         | mg/L                        | mg/L                        |
|                       | <b>Sample Type</b>  | GRAB                        | GRAB                          | CONTINUOUS                  | 24 HR COMP                  | GRAB                        |
|                       | <b>Frequency</b>    | MONTHLY                     | MONTHLY                       | DAILY                       | DAILY                       | 2/WEEK                      |
| <b>Sample Results</b> | <b>Day 1</b>        |                             |                               | 0.00877                     | 3.3                         |                             |
|                       | <b>2</b>            |                             |                               | 0.02410                     | 1.4                         | 1.6                         |
|                       | <b>3</b>            |                             |                               | 0.03321                     | <1.0                        | 1.4                         |
|                       | <b>4</b>            |                             |                               | 0.00317                     | 3.2                         |                             |
|                       | <b>5</b>            |                             |                               | 0.02287                     | 2.0                         |                             |
|                       | <b>6</b>            |                             |                               | 0.01600                     | .6                          |                             |
|                       | <b>7</b>            |                             |                               | 0.00865                     | 1.3                         |                             |
|                       | <b>8</b>            |                             |                               | 0.01074                     | 1.9                         |                             |
|                       | <b>9</b>            | 10                          |                               | 0.02562                     | 1.5                         | 1.7                         |
|                       | <b>10</b>           |                             |                               | 0.03008                     | 1.2                         | 2.7                         |
|                       | <b>11</b>           |                             |                               | 0.02714                     | <1.0                        |                             |
|                       | <b>12</b>           |                             |                               | 0.03087                     | 1.2                         |                             |
|                       | <b>13</b>           |                             |                               | 0.01942                     | 1.6                         |                             |
|                       | <b>14</b>           |                             |                               | 0.00269                     | 12.2                        |                             |
|                       | <b>15</b>           |                             |                               |                             |                             |                             |
|                       | <b>16</b>           |                             |                               | 0.02794                     | 2.4                         |                             |
|                       | <b>17</b>           |                             |                               | 0.02689                     | 1.3                         |                             |
|                       | <b>18</b>           |                             |                               | 0.02885                     | 1.2                         | 4.6                         |
|                       | <b>19</b>           |                             |                               | 0.01605                     | 2.7                         | 3.0                         |
|                       | <b>20</b>           |                             |                               | 0.01100                     | 27.1                        |                             |
|                       | <b>21</b>           |                             |                               | 0.00984                     | 8.7                         |                             |
|                       | <b>22</b>           |                             |                               | 0.00872                     | 5.9                         |                             |
|                       | <b>23</b>           |                             |                               | 0.02082                     | 7.1                         | 2.8                         |
|                       | <b>24</b>           |                             |                               | 0.02247                     | 3.3                         | 1.5                         |
|                       | <b>25</b>           |                             |                               | 0.02362                     | 2.9                         |                             |
|                       | <b>26</b>           |                             | 10                            | 0.01874                     | 3.0                         |                             |
|                       | <b>27</b>           |                             |                               | 0.02020                     | 5.7                         |                             |
|                       | <b>28</b>           |                             |                               |                             |                             |                             |
|                       | <b>29</b>           |                             |                               |                             |                             |                             |
|                       | <b>30</b>           |                             |                               | 0.02129                     | 7.0                         |                             |
|                       | <b>31</b>           |                             |                               | 0.021198                    | 2.2                         |                             |

|                           | Sample Point         | 001                      |  | 001                        |  | 101                      |    | 101                      |    |           |
|---------------------------|----------------------|--------------------------|--|----------------------------|--|--------------------------|----|--------------------------|----|-----------|
|                           | Description          | PRIOR TO MENOMINEE RIVER |  | PRIOR TO MENOMINEE RIVER   |  | Metal Finishing Effluent |    | Metal Finishing Effluent |    |           |
|                           | Parameter            | 112                      |  | 280                        |  | 211                      |    | 457                      |    |           |
|                           | Description          | Chlorine, Total Residual |  | Mercury, Total Recoverable |  | Flow Rate                |    | Suspended Solids, Total  |    |           |
|                           | Units                | ug/L                     |  | ng/L                       |  | MGD                      |    | mg/L                     |    |           |
| <b>Summary Values</b>     | Monthly Avg          | 10                       |  | 10                         |  | 0.019319929              |    | 3.996428571              |    |           |
|                           | Monthly Total        |                          |  |                            |  |                          |    |                          |    |           |
|                           | Daily Max            | 10                       |  | 10                         |  | 0.03321                  |    | 27.1                     |    |           |
|                           | Daily Min            | 10                       |  | 10                         |  | 0.00269                  |    | 0.6                      |    |           |
|                           | Rolling 12 Month Avg |                          |  |                            |  |                          |    |                          |    |           |
| <b>Limit(s) in Effect</b> | Monthly Avg          |                          |  |                            |  |                          | 31 | 0                        | 26 | 0         |
|                           | Monthly Total        |                          |  |                            |  |                          |    |                          |    |           |
|                           | Daily Max            |                          |  |                            |  |                          | 60 | 0                        | 52 | 0         |
|                           | Daily Min            |                          |  |                            |  |                          |    |                          |    |           |
|                           | Rolling 12 Month Avg |                          |  |                            |  |                          |    |                          |    |           |
| <b>QA/QC Information</b>  | LOD                  | 30                       |  | 0.2                        |  |                          |    | 1.3                      |    |           |
|                           | LOQ                  | 100                      |  | 0.5                        |  |                          |    | 5.1                      |    |           |
|                           | QC Exceedance        | N                        |  | N                          |  | N                        |    | N                        |    |           |
|                           | Lab Certification    |                          |  | 721026460                  |  |                          |    | 438039470                |    | 999580010 |



|                       |                     |                            |                             |                           |                          |                          |
|-----------------------|---------------------|----------------------------|-----------------------------|---------------------------|--------------------------|--------------------------|
|                       | <b>Sample Point</b> | 101                        | 101                         | 101                       | 101                      | 101                      |
|                       | <b>Description</b>  | Metal Finishing Effluent   | Metal Finishing Effluent    | Metal Finishing Effluent  | Metal Finishing Effluent | Metal Finishing Effluent |
|                       | <b>Parameter</b>    | 87                         | 133                         | 315                       | 553                      | 155                      |
|                       | <b>Description</b>  | Cadmium, Total Recoverable | Chromium, Total Recoverable | Nickel, Total Recoverable | Zinc, Total Recoverable  | Cyanide, Total           |
|                       | <b>Units</b>        | ug/L                       | ug/L                        | ug/L                      | ug/L                     | ug/L                     |
|                       | <b>Sample Type</b>  | 24 HR COMP                 | 24 HR COMP                  | 24 HR COMP                | 24 HR COMP               | GRAB                     |
|                       | <b>Frequency</b>    | 2/WEEK                     | MONTHLY                     | 2/WEEK                    | 2/WEEK                   | MONTHLY                  |
| <b>Sample Results</b> | <b>Day 1</b>        | <0.49                      | <2.2                        | 12                        | 88                       |                          |
|                       | <b>2</b>            | <0.49                      | <2.2                        | 9.3                       | 90                       |                          |
|                       | <b>3</b>            |                            |                             |                           |                          |                          |
|                       | <b>4</b>            |                            |                             |                           |                          |                          |
|                       | <b>5</b>            |                            |                             |                           |                          |                          |
|                       | <b>6</b>            |                            |                             |                           |                          |                          |
|                       | <b>7</b>            |                            |                             |                           |                          |                          |
|                       | <b>8</b>            |                            |                             |                           |                          |                          |
|                       | <b>9</b>            | <0.49                      | <2.2                        | 8.9                       | 58                       |                          |
|                       | <b>10</b>           | <0.49                      | <2.2                        | 17                        | 42                       | 3.1                      |
|                       | <b>11</b>           |                            |                             |                           |                          |                          |
|                       | <b>12</b>           |                            |                             |                           |                          |                          |
|                       | <b>13</b>           |                            |                             |                           |                          |                          |
|                       | <b>14</b>           |                            |                             |                           |                          |                          |
|                       | <b>15</b>           |                            |                             |                           |                          |                          |
|                       | <b>16</b>           | <0.49                      | <2.2                        | 22                        | 77                       |                          |
|                       | <b>17</b>           | <0.49                      | <2.2                        | 20                        | 51                       |                          |
|                       | <b>18</b>           |                            |                             |                           |                          |                          |
|                       | <b>19</b>           |                            |                             |                           |                          |                          |
|                       | <b>20</b>           |                            |                             |                           |                          |                          |
|                       | <b>21</b>           |                            |                             |                           |                          |                          |
|                       | <b>22</b>           |                            |                             |                           |                          |                          |
|                       | <b>23</b>           | <0.49                      | <2.2                        | 27                        | 81                       |                          |
|                       | <b>24</b>           | <0.49                      | <2.2                        | 18                        | 57                       |                          |
|                       | <b>25</b>           |                            |                             |                           |                          |                          |
|                       | <b>26</b>           |                            |                             |                           |                          |                          |
|                       | <b>27</b>           |                            |                             |                           |                          |                          |
|                       | <b>28</b>           |                            |                             |                           |                          |                          |
|                       | <b>29</b>           |                            |                             |                           |                          |                          |
|                       | <b>30</b>           |                            |                             |                           |                          |                          |
|                       | <b>31</b>           |                            |                             |                           |                          |                          |

|                           |                             |                            |   |                             |   |                           |   |                          |   |                          |   |
|---------------------------|-----------------------------|----------------------------|---|-----------------------------|---|---------------------------|---|--------------------------|---|--------------------------|---|
|                           | <b>Sample Point</b>         | 101                        |   | 101                         |   | 101                       |   | 101                      |   | 101                      |   |
|                           | <b>Description</b>          | Metal Finishing Effluent   |   | Metal Finishing Effluent    |   | Metal Finishing Effluent  |   | Metal Finishing Effluent |   | Metal Finishing Effluent |   |
|                           | <b>Parameter</b>            | 87                         |   | 133                         |   | 315                       |   | 553                      |   | 155                      |   |
|                           | <b>Description</b>          | Cadmium, Total Recoverable |   | Chromium, Total Recoverable |   | Nickel, Total Recoverable |   | Zinc, Total Recoverable  |   | Cyanide, Total           |   |
|                           | <b>Units</b>                | ug/L                       |   | ug/L                        |   | ug/L                      |   | ug/L                     |   | ug/L                     |   |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 0                          |   | 0                           |   | 16.775                    |   | 68                       |   | 3.1                      |   |
|                           | <b>Monthly Total</b>        |                            |   |                             |   |                           |   |                          |   |                          |   |
|                           | <b>Daily Max</b>            | <0.49                      |   | <2.2                        |   | 27                        |   | 90                       |   | 3.1                      |   |
|                           | <b>Daily Min</b>            | <0.49                      |   | <2.2                        |   | 8.9                       |   | 42                       |   | 3.1                      |   |
|                           | <b>Rolling 12 Month Avg</b> |                            |   |                             |   |                           |   |                          |   |                          |   |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          | 260                        | 0 | 1710                        | 0 | 2380                      | 0 | 1480                     | 0 | 650                      | 0 |
|                           | <b>Monthly Total</b>        |                            |   |                             |   |                           |   |                          |   |                          |   |
|                           | <b>Daily Max</b>            | 690                        | 0 | 2770                        | 0 | 3980                      | 0 | 2610                     | 0 | 1200                     | 0 |
|                           | <b>Daily Min</b>            |                            |   |                             |   |                           |   |                          |   |                          |   |
|                           | <b>Rolling 12 Month Avg</b> |                            |   |                             |   |                           |   |                          |   |                          |   |
| <b>QA/QC Information</b>  | <b>LOD</b>                  | 0.49                       |   | 2.2                         |   | 1.5                       |   | 3.6                      |   | 3                        |   |
|                           | <b>LOQ</b>                  | 1                          |   | 5                           |   | 5                         |   | 10                       |   | 10                       |   |
|                           | <b>QC Exceedance</b>        | N                          |   | N                           |   | N                         |   | N                        |   | N                        |   |
|                           | <b>Lab Certification</b>    | 999580010                  |   | 999580010                   |   | 999580010                 |   | 999580010                |   | 999580010                |   |

|                       |                     |                           |                          |                           |                          |                          |
|-----------------------|---------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|
|                       | <b>Sample Point</b> | 101                       | 101                      | 101                       | 101                      | 101                      |
|                       | <b>Description</b>  | Metal Finishing Effluent  | Metal Finishing Effluent | Metal Finishing Effluent  | Metal Finishing Effluent | Metal Finishing Effluent |
|                       | <b>Parameter</b>    | 147                       | 264                      | 430                       | 374                      | 373                      |
|                       | <b>Description</b>  | Copper, Total Recoverable | Lead, Total Recoverable  | Silver, Total Recoverable | pH (Minimum)             | pH (Maximum)             |
|                       | <b>Units</b>        | ug/L                      | ug/L                     | ug/L                      | su                       | su                       |
|                       | <b>Sample Type</b>  | 24 HR COMP                | 24 HR COMP               | 24 HR COMP                | CONTINUOUS               | CONTINUOUS               |
|                       | <b>Frequency</b>    | 2/WEEK                    | MONTHLY                  | MONTHLY                   | DAILY                    | DAILY                    |
| <b>Sample Results</b> | <b>Day 1</b>        | 2.7                       | <1.3                     | <1.1                      | 6.9                      | 7.5                      |
|                       | <b>2</b>            | 3.3                       | 2.3                      | <1.1                      | 6.9                      | 8.1                      |
|                       | <b>3</b>            |                           |                          |                           | 7.2                      | 7.9                      |
|                       | <b>4</b>            |                           |                          |                           | 7.6                      | 7.6                      |
|                       | <b>5</b>            |                           |                          |                           | 7.4                      | 7.8                      |
|                       | <b>6</b>            |                           |                          |                           | 6.8                      | 7.6                      |
|                       | <b>7</b>            |                           |                          |                           | 7.2                      | 7.5                      |
|                       | <b>8</b>            |                           |                          |                           | 7.0                      | 7.6                      |
|                       | <b>9</b>            | 3.0                       | <1.3                     | <1.1                      | 7.1                      | 7.7                      |
|                       | <b>10</b>           | 3.3                       | <1.3                     | <1.1                      | 7.3                      | 8.0                      |
|                       | <b>11</b>           |                           |                          |                           | 7.2                      | 8.0                      |
|                       | <b>12</b>           |                           |                          |                           | 7.2                      | 7.9                      |
|                       | <b>13</b>           |                           |                          |                           | 7.4                      | 7.7                      |
|                       | <b>14</b>           |                           |                          |                           | 6.9                      | 7.0                      |
|                       | <b>15</b>           |                           |                          |                           |                          |                          |
|                       | <b>16</b>           | 5.3                       | <1.3                     | <1.1                      | 7.4                      | 7.8                      |
|                       | <b>17</b>           | 4.8                       | <1.3                     | <1.1                      | 7.5                      | 7.9                      |
|                       | <b>18</b>           |                           |                          |                           | 7.5                      | 7.8                      |
|                       | <b>19</b>           |                           |                          |                           | 7.4                      | 7.8                      |
|                       | <b>20</b>           |                           |                          |                           | 7.7                      | 8.1                      |
|                       | <b>21</b>           |                           |                          |                           | 7.9                      | 8.1                      |
|                       | <b>22</b>           |                           |                          |                           | 7.8                      | 8.2                      |
|                       | <b>23</b>           | 5.6                       | <1.3                     | <1.1                      | 7.3                      | 8.0                      |
|                       | <b>24</b>           | 4.0                       | <1.3                     | <1.1                      | 7.0                      | 7.9                      |
|                       | <b>25</b>           |                           |                          |                           | 7.2                      | 7.9                      |
|                       | <b>26</b>           |                           |                          |                           | 7.5                      | 8.6                      |
|                       | <b>27</b>           |                           |                          |                           | 7.2                      | 8.7                      |
|                       | <b>28</b>           |                           |                          |                           |                          |                          |
|                       | <b>29</b>           |                           |                          |                           |                          |                          |
|                       | <b>30</b>           |                           |                          |                           | 7.6                      | 7.8                      |
|                       | <b>31</b>           |                           |                          |                           | 7.3                      | 7.7                      |

|                           | 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                       |   | 264                      |   | 430                       |   | 374                      |   | 373                      |   |
|                           | Description          | Copper, Total Recoverable |   | Lead, Total Recoverable  |   | Silver, Total Recoverable |   | pH (Minimum)             |   | pH (Maximum)             |   |
|                           | Units                | ug/L                      |   | ug/L                     |   | ug/L                      |   | su                       |   | su                       |   |
| <b>Summary Values</b>     | Monthly Avg          | 4                         |   | 0.2875                   |   | 0                         |   | 7.3                      |   | 7.864285714              |   |
|                           | Monthly Total        |                           |   |                          |   |                           |   |                          |   |                          |   |
|                           | Daily Max            | 5.6                       |   | 2.3                      |   | <1.1                      |   | 7.9                      |   | 8.7                      |   |
|                           | Daily Min            | 2.7                       |   | <1.3                     |   | <1.1                      |   | 6.8                      |   | 7                        |   |
|                           | Rolling 12 Month Avg |                           |   |                          |   |                           |   |                          |   |                          |   |
| <b>Limit(s) in Effect</b> | Monthly Avg          | 2070                      | 0 | 430                      | 0 | 240                       | 0 |                          |   |                          |   |
|                           | Monthly Total        |                           |   |                          |   |                           |   |                          |   |                          |   |
|                           | Daily Max            | 3380                      | 0 | 690                      | 0 | 430                       | 0 |                          |   | 11                       | 0 |
|                           | Daily Min            |                           |   |                          |   |                           |   | 4                        | 0 |                          |   |
|                           | Rolling 12 Month Avg |                           |   |                          |   |                           |   |                          |   |                          |   |
| <b>QA/QC Information</b>  | LOD                  | 1.7                       |   | 1.3                      |   | 1.1                       |   |                          |   |                          |   |
|                           | LOQ                  | 5                         |   | 2.5                      |   | 2.5                       |   |                          |   |                          |   |
|                           | QC Exceedance        | N                         |   | N                        |   | N                         |   | N                        |   | N                        |   |
|                           | Lab Certification    | 999580010                 |   | 999580010                |   | 999580010                 |   |                          |   |                          |   |

|                       |                     |                                  |  |                          |                          |                          |
|-----------------------|---------------------|----------------------------------|--|--------------------------|--------------------------|--------------------------|
|                       | <b>Sample Point</b> | 101                              | 101                                    | 101                      | 101                      | 101                      |
|                       | <b>Description</b>  | Metal Finishing Effluent         | Metal Finishing Effluent               | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
|                       | <b>Parameter</b>    | 379                              | 376                                    | 507                      | 40                       | 490                      |
|                       | <b>Description</b>  | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes | Total Toxic Organics     | Benzene                  | Tetrachloroethylene      |
|                       | <b>Units</b>        | minutes                          | Number                                 | ug/L                     | ug/L                     | ug/L                     |
|                       | <b>Sample Type</b>  | CALCULATED                       | CALCULATED                             | 24 HR COMP               | 24 HR COMP               | 24 HR COMP               |
|                       | <b>Frequency</b>    | DAILY                            | DAILY                                  | MONTHLY                  | MONTHLY                  | MONTHLY                  |
| <b>Sample Results</b> | <b>Day 1</b>        |                                  |  |                          |                          |                          |
|                       | <b>2</b>            |                                  |  |                          |                          |                          |
|                       | <b>3</b>            |                                  |  |                          |                          |                          |
|                       | <b>4</b>            |                                  |  |                          |                          |                          |
|                       | <b>5</b>            |                                  |  |                          |                          |                          |
|                       | <b>6</b>            |                                  |  |                          |                          |                          |
|                       | <b>7</b>            |                                  |  |                          |                          |                          |
|                       | <b>8</b>            |                                  |  |                          |                          |                          |
|                       | <b>9</b>            |                                  |  |                          |                          |                          |
|                       | <b>10</b>           |                                  |  |                          |                          |                          |
|                       | <b>11</b>           |                                  |  |                          |                          |                          |
|                       | <b>12</b>           |                                  |  |                          |                          |                          |
|                       | <b>13</b>           |                                  |  |                          |                          |                          |
|                       | <b>14</b>           |                                  |  |                          |                          |                          |
|                       | <b>15</b>           |                                  |  |                          |                          |                          |
|                       | <b>16</b>           |                                  |  |                          |                          |                          |
|                       | <b>17</b>           |                                  |  |                          |                          |                          |
|                       | <b>18</b>           |                                  |  |                          |                          |                          |
|                       | <b>19</b>           |                                  |  |                          |                          |                          |
|                       | <b>20</b>           |                                  |  |                          |                          |                          |
|                       | <b>21</b>           |                                  |  |                          |                          |                          |
|                       | <b>22</b>           |                                  |  |                          |                          |                          |
|                       | <b>23</b>           |                                  |  |                          |                          |                          |
|                       | <b>24</b>           |                                  |  |                          |                          |                          |
|                       | <b>25</b>           |                                  |  |                          |                          |                          |
|                       | <b>26</b>           |                                  |  |                          |                          |                          |
|                       | <b>27</b>           |                                  |  |                          |                          |                          |
|                       | <b>28</b>           |                                  |  |                          |                          |                          |
|                       | <b>29</b>           |                                  |  |                          |                          |                          |
|                       | <b>30</b>           |                                  |  |                          |                          |                          |
|                       | <b>31</b>           |                                  |  |                          |                          |                          |

|                           |                             |                                  |   |  |   |                          |  |                          |  |                          |  |
|---------------------------|-----------------------------|----------------------------------|---|--|---|--------------------------|--|--------------------------|--|--------------------------|--|
|                           | <b>Sample Point</b>         | 101                              |   | 101                                    |   | 101                      |  | 101                      |  | 101                      |  |
|                           | <b>Description</b>          | Metal Finishing Effluent         |   | Metal Finishing Effluent               |   | Metal Finishing Effluent |  | Metal Finishing Effluent |  | Metal Finishing Effluent |  |
|                           | <b>Parameter</b>            | 379                              |   | 376                                    |   | 507                      |  | 40                       |  | 490                      |  |
|                           | <b>Description</b>          | pH Total Exceedance Time Minutes |   | pH Exceedances Greater Than 60 Minutes |   | Total Toxic Organics     |  | Benzene                  |  | Tetrachloroethylene      |  |
|                           | <b>Units</b>                | minutes                          |   | Number                                 |   | ug/L                     |  | ug/L                     |  | ug/L                     |  |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Monthly Total</b>        |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Daily Max</b>            |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Daily Min</b>            |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Rolling 12 Month Avg</b> |                                  |   |  |   |                          |  |                          |  |                          |  |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Monthly Total</b>        | 446                              | 0 | 0                                      | 0 |                          |  |                          |  |                          |  |
|                           | <b>Daily Max</b>            |                                  |   |  |   | 2130                     |  |                          |  |                          |  |
|                           | <b>Daily Min</b>            |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Rolling 12 Month Avg</b> |                                  |   |  |   |                          |  |                          |  |                          |  |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>LOQ</b>                  |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>QC Exceedance</b>        | N                                |   | N                                      |   | N                        |  | N                        |  | N                        |  |
|                           | <b>Lab Certification</b>    |                                  |   |  |   |                          |  |                          |  |                          |  |

|                       |                     |                          |                          |                          |                          |                          |
|-----------------------|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                       | <b>Sample Point</b> | 101                      | 101                      | 101                      | 101                      | 101                      |
|                       | <b>Description</b>  | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
|                       | <b>Parameter</b>    | 500                      | 561                      | 200                      | 508                      | 285                      |
|                       | <b>Description</b>  | Toluene                  | 1,1,1-Trichloro- ethane  | Ethylbenzene             | Trichloro- ethylene      | Methylene chloride       |
|                       | <b>Units</b>        | ug/L                     | ug/L                     | ug/L                     | ug/L                     | ug/L                     |
|                       | <b>Sample Type</b>  | 24 HR COMP               | 24 HR COMP               | 24 HR COMP               | 24 HR COMP               | 24 HR COMP               |
|                       | <b>Frequency</b>    | MONTHLY                  | MONTHLY                  | MONTHLY                  | MONTHLY                  | MONTHLY                  |
| <b>Sample Results</b> | <b>Day 1</b>        |                          |                          |                          |                          |                          |
|                       | <b>2</b>            |                          |                          |                          |                          |                          |
|                       | <b>3</b>            |                          |                          |                          |                          |                          |
|                       | <b>4</b>            |                          |                          |                          |                          |                          |
|                       | <b>5</b>            |                          |                          |                          |                          |                          |
|                       | <b>6</b>            |                          |                          |                          |                          |                          |
|                       | <b>7</b>            |                          |                          |                          |                          |                          |
|                       | <b>8</b>            |                          |                          |                          |                          |                          |
|                       | <b>9</b>            |                          |                          |                          |                          |                          |
|                       | <b>10</b>           |                          |                          |                          |                          |                          |
|                       | <b>11</b>           |                          |                          |                          |                          |                          |
|                       | <b>12</b>           |                          |                          |                          |                          |                          |
|                       | <b>13</b>           |                          |                          |                          |                          |                          |
|                       | <b>14</b>           |                          |                          |                          |                          |                          |
|                       | <b>15</b>           |                          |                          |                          |                          |                          |
|                       | <b>16</b>           |                          |                          |                          |                          |                          |
|                       | <b>17</b>           |                          |                          |                          |                          |                          |
|                       | <b>18</b>           |                          |                          |                          |                          |                          |
|                       | <b>19</b>           |                          |                          |                          |                          |                          |
|                       | <b>20</b>           |                          |                          |                          |                          |                          |
|                       | <b>21</b>           |                          |                          |                          |                          |                          |
|                       | <b>22</b>           |                          |                          |                          |                          |                          |
|                       | <b>23</b>           |                          |                          |                          |                          |                          |
|                       | <b>24</b>           |                          |                          |                          |                          |                          |
|                       | <b>25</b>           |                          |                          |                          |                          |                          |
|                       | <b>26</b>           |                          |                          |                          |                          |                          |
|                       | <b>27</b>           |                          |                          |                          |                          |                          |
|                       | <b>28</b>           |                          |                          |                          |                          |                          |
|                       | <b>29</b>           |                          |                          |                          |                          |                          |
|                       | <b>30</b>           |                          |                          |                          |                          |                          |
|                       | <b>31</b>           |                          |                          |                          |                          |                          |

|                           |                             |                          |                          |                          |                          |                          |
|---------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                           | <b>Sample Point</b>         | 101                      | 101                      | 101                      | 101                      | 101                      |
|                           | <b>Description</b>          | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
|                           | <b>Parameter</b>            | 500                      | 561                      | 200                      | 508                      | 285                      |
|                           | <b>Description</b>          | Toluene                  | 1,1,1-Trichloro- ethane  | Ethylbenzene             | Trichloro- ethylene      | Methylene chloride       |
|                           | <b>Units</b>                | ug/L                     | ug/L                     | ug/L                     | ug/L                     | ug/L                     |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          |                          |                          |                          |                          |                          |
|                           | <b>Monthly Total</b>        |                          |                          |                          |                          |                          |
|                           | <b>Daily Max</b>            |                          |                          |                          |                          |                          |
|                           | <b>Daily Min</b>            |                          |                          |                          |                          |                          |
|                           | <b>Rolling 12 Month Avg</b> |                          |                          |                          |                          |                          |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                          |                          |                          |                          |                          |
|                           | <b>Monthly Total</b>        |                          |                          |                          |                          |                          |
|                           | <b>Daily Max</b>            |                          |                          |                          |                          |                          |
|                           | <b>Daily Min</b>            |                          |                          |                          |                          |                          |
|                           | <b>Rolling 12 Month Avg</b> |                          |                          |                          |                          |                          |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                          |                          |                          |                          |                          |
|                           | <b>LOQ</b>                  |                          |                          |                          |                          |                          |
|                           | <b>QC Exceedance</b>        |                          |                          |                          |                          |                          |
|                           | <b>Lab Certification</b>    |                          |                          |                          |                          |                          |



|                       |                     |  |                           |                            |                           |                             |
|-----------------------|---------------------|--|---------------------------|----------------------------|---------------------------|-----------------------------|
|                       | <b>Sample Point</b> | 101                                      | 106                       | 106                        | 106                       | 107                         |
|                       | <b>Description</b>  | Metal Finishing Effluent                 | Future remedial action ww | Future remedial action ww  | Future remedial action ww | Mercury Field Blank Results |
|                       | <b>Parameter</b>    | 167                                      | 211                       | 35                         | 457                       | 280                         |
|                       | <b>Description</b>  | Di-n-butyl phthalate (dibutyl phthalate) | Flow Rate                 | Arsenic, Total Recoverable | Suspended Solids, Total   | Mercury, Total Recoverable  |
|                       | <b>Units</b>        | ug/L                                     | gpd                       | ug/L                       | mg/L                      | ng/L                        |
|                       | <b>Sample Type</b>  | 24 HR COMP                               | CONTINUOUS                | 24 HR COMP                 | 24 HR COMP                | GRAB                        |
|                       | <b>Frequency</b>    | MONTHLY                                  | DAILY                     | WEEKLY                     | WEEKLY                    | MONTHLY                     |
| <b>Sample Results</b> | <b>Day 1</b>        |  |                           |                            |                           |                             |
|                       | <b>2</b>            |  |                           |                            |                           |                             |
|                       | <b>3</b>            |  |                           |                            |                           |                             |
|                       | <b>4</b>            |  |                           |                            |                           |                             |
|                       | <b>5</b>            |  |                           |                            |                           |                             |
|                       | <b>6</b>            |  |                           |                            |                           |                             |
|                       | <b>7</b>            |  |                           |                            |                           |                             |
|                       | <b>8</b>            |  |                           |                            |                           |                             |
|                       | <b>9</b>            |  |                           |                            |                           |                             |
|                       | <b>10</b>           |  |                           |                            |                           |                             |
|                       | <b>11</b>           |  |                           |                            |                           |                             |
|                       | <b>12</b>           |  |                           |                            |                           |                             |
|                       | <b>13</b>           |  |                           |                            |                           |                             |
|                       | <b>14</b>           |  |                           |                            |                           |                             |
|                       | <b>15</b>           |  |                           |                            |                           |                             |
|                       | <b>16</b>           |  |                           |                            |                           |                             |
|                       | <b>17</b>           |  |                           |                            |                           |                             |
|                       | <b>18</b>           |  |                           |                            |                           |                             |
|                       | <b>19</b>           |  |                           |                            |                           |                             |
|                       | <b>20</b>           |  |                           |                            |                           |                             |
|                       | <b>21</b>           |  |                           |                            |                           |                             |
|                       | <b>22</b>           |  |                           |                            |                           |                             |
|                       | <b>23</b>           |  |                           |                            |                           |                             |
|                       | <b>24</b>           |  |                           |                            |                           |                             |
|                       | <b>25</b>           |  |                           |                            |                           |                             |
|                       | <b>26</b>           |  |                           |                            |                           | <0.20                       |
|                       | <b>27</b>           |  |                           |                            |                           |                             |
|                       | <b>28</b>           |  |                           |                            |                           |                             |
|                       | <b>29</b>           |  |                           |                            |                           |                             |
|                       | <b>30</b>           |  |                           |                            |                           |                             |
|                       | <b>31</b>           |  |                           |                            |                           |                             |

|                           | Sample Point                | 101                                      | 106                       | 106                        | 106                       | 107                         |
|---------------------------|-----------------------------|--|---------------------------|----------------------------|---------------------------|-----------------------------|
|                           | Description                 | Metal Finishing Effluent                 | Future remedial action ww | Future remedial action ww  | Future remedial action ww | Mercury Field Blank Results |
|                           | Parameter                   | 167                                      | 211                       | 35                         | 457                       | 280                         |
|                           | Description                 | Di-n-butyl phthalate (dibutyl phthalate) | Flow Rate                 | Arsenic, Total Recoverable | Suspended Solids, Total   | Mercury, Total Recoverable  |
|                           | Units                       | ug/L                                     | gpd                       | ug/L                       | mg/L                      | ng/L                        |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          |  |                           |                            |                           | 0                           |
|                           | <b>Monthly Total</b>        |  |                           |                            |                           |                             |
|                           | <b>Daily Max</b>            |  |                           |                            |                           | <0.2                        |
|                           | <b>Daily Min</b>            |  |                           |                            |                           | <0.2                        |
|                           | <b>Rolling 12 Month Avg</b> |  |                           |                            |                           |                             |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |  |                           |                            |                           |                             |
|                           | <b>Monthly Total</b>        |  |                           |                            |                           |                             |
|                           | <b>Daily Max</b>            |  |                           |                            |                           |                             |
|                           | <b>Daily Min</b>            |  |                           |                            |                           |                             |
|                           | <b>Rolling 12 Month Avg</b> |  |                           |                            |                           |                             |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |  |                           |                            |                           | 0.2                         |
|                           | <b>LOQ</b>                  |  |                           |                            |                           | 0.5                         |
|                           | <b>QC Exceedance</b>        | N  | N                         | N                          | N                         | N                           |
|                           | <b>Lab Certification</b>    |  |                           |                            |                           | 721026460                   |

|                       |                     |                               |                               |                               |                               |                               |
|-----------------------|---------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
|                       | <b>Sample Point</b> | 003                           | 003                           | 003                           | 003                           | 003                           |
|                       | <b>Description</b>  | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg |
|                       | <b>Parameter</b>    | 211                           | 457                           | 35                            | 374                           | 373                           |
|                       | <b>Description</b>  | Flow Rate                     | Suspended Solids, Total       | Arsenic, Total Recoverable    | pH (Minimum)                  | pH (Maximum)                  |
|                       | <b>Units</b>        | MGD                           | mg/L                          | ug/L                          | su                            | su                            |
|                       | <b>Sample Type</b>  | CONTINUOUS                    | 24 HR COMP                    | 24 HR COMP                    | CONTINUOUS                    | CONTINUOUS                    |
|                       | <b>Frequency</b>    | DAILY                         | WEEKLY                        | WEEKLY                        | DAILY                         | DAILY                         |
| <b>Sample Results</b> | <b>Day 1</b>        |                               |                               |                               |                               |                               |
|                       | <b>2</b>            | 0.009376                      |                               |                               | 7.2                           | 8.5                           |
|                       | <b>3</b>            | 0.003389                      |                               |                               | 6.9                           | 7.1                           |
|                       | <b>4</b>            |                               |                               |                               |                               |                               |
|                       | <b>5</b>            | 0.012722                      | <1.0                          | 17                            | 7.2                           | 8.5                           |
|                       | <b>6</b>            | 0.011009                      |                               |                               | 7.1                           | 8.6                           |
|                       | <b>7</b>            |                               |                               |                               |                               |                               |
|                       | <b>8</b>            |                               |                               |                               |                               |                               |
|                       | <b>9</b>            | 0.015481                      | <1.0                          | 18                            | 6.8                           | 7.5                           |
|                       | <b>10</b>           | 0.012714                      |                               |                               | 6.5                           | 7.8                           |
|                       | <b>11</b>           | 0.023996                      |                               |                               | 6.7                           | 8.3                           |
|                       | <b>12</b>           | 0.023485                      |                               |                               | 6.9                           | 8.7                           |
|                       | <b>13</b>           | 0.019887                      |                               |                               | 6.6                           | 8.7                           |
|                       | <b>14</b>           |                               |                               |                               |                               |                               |
|                       | <b>15</b>           |                               |                               |                               |                               |                               |
|                       | <b>16</b>           | 0.007002                      |                               |                               | 6.4                           | 6.6                           |
|                       | <b>17</b>           | 0.016403                      |                               |                               | 6.6                           | 9.0                           |
|                       | <b>18</b>           | 0.017188                      | <1.0                          | 36                            | 6.4                           | 8.3                           |
|                       | <b>19</b>           | 0.016155                      |                               |                               | 6.9                           | 8.9                           |
|                       | <b>20</b>           | 0.010120                      |                               |                               | 7.3                           | 8.5                           |
|                       | <b>21</b>           | 0.007536                      |                               |                               | 7.5                           | 7.6                           |
|                       | <b>22</b>           |                               |                               |                               |                               |                               |
|                       | <b>23</b>           | 0.016105                      | <1.0                          | 66                            | 6.4                           | 6.5                           |
|                       | <b>24</b>           | 0.012781                      |                               |                               | 6.0                           | 6.3                           |
|                       | <b>25</b>           | 0.016483                      |                               |                               | 6.0                           | 8.6                           |
|                       | <b>26</b>           | 0.023088                      |                               |                               | 6.1                           | 8.9                           |
|                       | <b>27</b>           | 0.016046                      |                               |                               | 6.9                           | 7.1                           |
|                       | <b>28</b>           |                               |                               |                               |                               |                               |
|                       | <b>29</b>           |                               |                               |                               |                               |                               |
|                       | <b>30</b>           | 0.022121                      |                               |                               | 6.6                           | 6.7                           |
|                       | <b>31</b>           | 0.017866                      |                               |                               | 6.4                           | 6.7                           |

|                           | Sample Point         | 003                           | 003                           | 003                           | 003                           | 003                           |   |
|---------------------------|----------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---|
|                           | Description          | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg |   |
|                           | Parameter            | 211                           | 457                           | 35                            | 374                           | 373                           |   |
|                           | Description          | Flow Rate                     | Suspended Solids, Total       | Arsenic, Total Recoverable    | pH (Minimum)                  | pH (Maximum)                  |   |
|                           | Units                | MGD                           | mg/L                          | ug/L                          | su                            | su                            |   |
| <b>Summary Values</b>     | Monthly Avg          | 0.015043318                   | 0                             | 34.25                         | 6.7                           | 7.881818182                   |   |
|                           | Monthly Total        |                               |                               |                               |                               |                               |   |
|                           | Daily Max            | 0.023996                      | <1                            | 66                            | 7.5                           | 9                             |   |
|                           | Daily Min            | 0.003389                      | <1                            | 17                            | 6                             | 6.3                           |   |
|                           | Rolling 12 Month Avg |                               |                               |                               |                               |                               |   |
| <b>Limit(s) in Effect</b> | Monthly Avg          |                               |                               |                               |                               |                               |   |
|                           | Monthly Total        |                               |                               |                               |                               |                               |   |
|                           | Daily Max            |                               |                               | 680                           | 0                             | 11                            | 0 |
|                           | Daily Min            |                               |                               |                               | 4                             | 0                             |   |
|                           | Rolling 12 Month Avg |                               |                               |                               |                               |                               |   |
| <b>QA/QC Information</b>  | LOD                  |                               |                               | 2.1                           |                               |                               |   |
|                           | LOQ                  |                               |                               | 5                             |                               |                               |   |
|                           | QC Exceedance        | N                             | N                             | N                             | N                             | N                             |   |
|                           | Lab Certification    |                               | 438039470                     | 999580010                     |                               |                               |   |

|                       |                     |                                  |  |
|-----------------------|---------------------|----------------------------------|--|
|                       | <b>Sample Point</b> | 003                              | 003                                    |
|                       | <b>Description</b>  | Future remedial action dischg    | Future remedial action dischg          |
|                       | <b>Parameter</b>    | 379                              | 376                                    |
|                       | <b>Description</b>  | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes |
|                       | <b>Units</b>        | minutes                          | Number                                 |
|                       | <b>Sample Type</b>  | CONTINUOUS                       | CONTINUOUS                             |
|                       | <b>Frequency</b>    | DAILY                            | DAILY                                  |
| <b>Sample Results</b> | <b>Day 1</b>        |                                  |  |
|                       | <b>2</b>            |                                  |  |
|                       | <b>3</b>            |                                  |  |
|                       | <b>4</b>            |                                  |  |
|                       | <b>5</b>            |                                  |  |
|                       | <b>6</b>            |                                  |  |
|                       | <b>7</b>            |                                  |  |
|                       | <b>8</b>            |                                  |  |
|                       | <b>9</b>            |                                  |  |
|                       | <b>10</b>           |                                  |  |
|                       | <b>11</b>           |                                  |  |
|                       | <b>12</b>           |                                  |  |
|                       | <b>13</b>           |                                  |  |
|                       | <b>14</b>           |                                  |  |
|                       | <b>15</b>           |                                  |  |
|                       | <b>16</b>           |                                  |  |
|                       | <b>17</b>           |                                  |  |
|                       | <b>18</b>           |                                  |  |
|                       | <b>19</b>           |                                  |  |
|                       | <b>20</b>           |                                  |  |
|                       | <b>21</b>           |                                  |  |
|                       | <b>22</b>           |                                  |  |
|                       | <b>23</b>           |                                  |  |
|                       | <b>24</b>           |                                  |  |
|                       | <b>25</b>           |                                  |  |
|                       | <b>26</b>           |                                  |  |
|                       | <b>27</b>           |                                  |  |
|                       | <b>28</b>           |                                  |  |
|                       | <b>29</b>           |                                  |  |
|                       | <b>30</b>           |                                  |  |
|                       | <b>31</b>           |                                  |  |

|                           |                             |                                  |   |  |   |
|---------------------------|-----------------------------|----------------------------------|---|--|---|
|                           | <b>Sample Point</b>         | 003                              |   | 003                                    |   |
|                           | <b>Description</b>          | Future remedial action dischg    |   | Future remedial action dischg          |   |
|                           | <b>Parameter</b>            | 379                              |   | 376                                    |   |
|                           | <b>Description</b>          | pH Total Exceedance Time Minutes |   | pH Exceedances Greater Than 60 Minutes |   |
|                           | <b>Units</b>                | minutes                          |   | Number                                 |   |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          |                                  |   |  |   |
|                           | <b>Monthly Total</b>        |                                  |   |  |   |
|                           | <b>Daily Max</b>            |                                  |   |  |   |
|                           | <b>Daily Min</b>            |                                  |   |  |   |
|                           | <b>Rolling 12 Month Avg</b> |                                  |   |  |   |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                                  |   |  |   |
|                           | <b>Monthly Total</b>        | 446                              | 0 |  |   |
|                           | <b>Daily Max</b>            |                                  |   | 0                                      | 0 |
|                           | <b>Daily Min</b>            |                                  |   |  |   |
|                           | <b>Rolling 12 Month Avg</b> |                                  |   |  |   |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                                  |   |  |   |
|                           | <b>LOQ</b>                  |                                  |   |  |   |
|                           | <b>QC Exceedance</b>        | N                                |   | N                                      |   |
|                           | <b>Lab Certification</b>    |                                  |   |  |   |

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

1. Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for TTO I certify that to the best of my knowledge and belief no dumping of concentrated toxic organics into the wastewaters has
2. occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the solvent management plan submitted to the department.

General Remarks

Laboratory Quality Control Comments

Submitted by Anne Fleury(afleury16) on 8/14/2018 12:13:55 PM



eReport Certify - TYCO FIRE PROTECTION PRODUCTS LP

- 438259

Facility Name

TYCO FIRE PROTECTION PRODUCTS LP

Form Type

Wastewater Discharge Monitoring Long Report

DOC ID

406455

Reporting Period

8/1/2018 to 8/31/2018

Enter Certification Code

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I certify under penalty of law that this form submitted to DNR on 9/11/2018 for the period 8/1/2018 to 8/31/2018 and identified by the DOC ID number listed above was 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.

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eReport Certify - TYCO FIRE PROTECTION PRODUCTS LP

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eReport Submit - TYCO FIRE PROTECTION PRODUCTS

LP - 438259

Facility Name

TYCO FIRE PROTECTION PRODUCTS LP

Form Type

Wastewater Discharge Monitoring Long Report

DOC ID

406455

Reporting Period

8/1/2018 to 8/31/2018

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**Wastewater Discharge Monitoring Long Report**

**For DNR Use Only**

Facility Name: TYCO FIRE PROTECTION PRODUCTS LP  
 Contact Address: One Stanton St  
 Marinette, WI 54143  
 Facility Contact: Mike Elliott, EHS Manager  
 Phone Number: 715-735-7411  
 Reporting Period: 08/01/2018 - 08/31/2018  
 Form Due Date: 09/21/2018  
 Permit Number: 0001040

Date Received:  
 DOC: 406455  
 FIN: 7245  
 FID: 438039470  
 Region: Northeast Region  
 Permit Drafter: Trevor J Moen  
 Reviewer: Nicole E Krueger  
 Office: Green Bay

| Sample Point   | 001                      | 703                        | 001                      | 001                      | 001                      |     |
|----------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|-----|
| Description    | PRIOR TO MENOMINEE RIVER | Intake Water Monitoring    | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER |     |
| Parameter      | 211                      | 280                        | 487                      | 374                      | 373                      |     |
| Description    | Flow Rate                | Mercury, Total Recoverable | Temperature              | pH (Minimum)             | pH (Maximum)             |     |
| Units          | MGD                      | ng/L                       | degF                     | su                       | su                       |     |
| Sample Type    | CONTINUOUS               | GRAB                       | GRAB                     | CONTINUOUS               | CONTINUOUS               |     |
| Frequency      | DAILY                    | MONTHLY                    | MONTHLY                  | DAILY                    | DAILY                    |     |
| Sample Results | Day 1                    | 0.161330                   |                          | 81                       | 7.0                      | 7.5 |
|                | 2                        | 0.163460                   |                          | 79                       | 6.9                      | 7.4 |
|                | 3                        | 0.039390                   |                          | 80                       | 7.2                      | 7.9 |
|                | 4                        | 0.019230                   |                          | 83                       | 6.9                      | 8.5 |
|                | 5                        | 0.025990                   |                          | 82                       | 6.9                      | 7.2 |
|                | 6                        | 0.144870                   |                          | 81                       | 6.8                      | 7.1 |
|                | 7                        | 0.151030                   |                          | 78                       | 6.8                      | 7.2 |
|                | 8                        | 0.150700                   |                          | 78                       | 6.7                      | 7.0 |
|                | 9                        | 0.155680                   |                          | 77                       | 6.9                      | 7.6 |
|                | 10                       | 0.120270                   |                          | 80                       | 6.9                      | 7.2 |
|                | 11                       | 0.012190                   |                          | 83                       | 7.2                      | 8.5 |
|                | 12                       | 0.065640                   |                          | 87                       | 7.6                      | 8.5 |
|                | 13                       | 0.150670                   |                          | 80                       | 7.3                      | 7.9 |
|                | 14                       | 0.144720                   |                          | 81                       | 6.0                      | 7.4 |
|                | 15                       | 0.143630                   |                          | 80                       | 7.2                      | 7.5 |
|                | 16                       | 0.144920                   |                          | 83                       | 7.1                      | 7.6 |
|                | 17                       | 0.119030                   |                          | 83                       | 7.1                      | 7.7 |
|                | 18                       | 0.077430                   |                          | 81                       | 7.4                      | 8.0 |
|                | 19                       | 0.037720                   |                          | 84                       | 7.3                      | 8.3 |
|                | 20                       | 0.147160                   |                          | 82                       | 6.8                      | 7.6 |
|                | 21                       | 0.151780                   |                          | 81                       | 6.8                      | 7.2 |
|                | 22                       | 0.154190                   |                          | 83                       | 6.7                      | 7.1 |
|                | 23                       | 0.152830                   | 1.4                      | 83                       | 6.5                      | 6.7 |
|                | 24                       | 0.139460                   |                          | 82                       | 6.5                      | 7.0 |
|                | 25                       | 0.069600                   |                          | 80                       | 6.6                      | 7.5 |
|                | 26                       | 0.078160                   |                          | 82                       | 6.9                      | 7.9 |
|                | 27                       | 0.320130                   |                          | 75                       | 6.5                      | 7.3 |
|                | 28                       | 0.162870                   |                          | 78                       | 6.0                      | 7.2 |
|                | 29                       | 0.181520                   |                          | 78                       | 7.1                      | 7.4 |
|                | 30                       | 0.177070                   |                          | 75                       | 7.1                      | 7.5 |
|                | 31                       | 0.119650                   |                          | 77                       | 7.1                      | 7.5 |

|                           | Sample Point                | 001                      | 703                        | 001                      | 001                      | 001                      |
|---------------------------|-----------------------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|
|                           | Description                 | PRIOR TO MENOMINEE RIVER | Intake Water Monitoring    | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER |
|                           | Parameter                   | 211                      | 280                        | 487                      | 374                      | 373                      |
|                           | Description                 | Flow Rate                | Mercury, Total Recoverable | Temperature              | pH (Minimum)             | pH (Maximum)             |
|                           | Units                       | MGD                      | ng/L                       | degF                     | su                       | su                       |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 0.125236129              | 1.4                        | 80.548387097             | 6.896774194              | 7.54516129               |
|                           | <b>Monthly Total</b>        |                          |                            |                          |                          |                          |
|                           | <b>Daily Max</b>            | 0.32013                  | 1.4                        | 87                       | 7.6                      | 8.5                      |
|                           | <b>Daily Min</b>            | 0.01219                  | 1.4                        | 75                       | 6                        | 6.7                      |
|                           | <b>Rolling 12 Month Avg</b> |                          |                            |                          |                          |                          |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                          |                            |                          |                          |                          |
|                           | <b>Monthly Total</b>        |                          |                            |                          |                          |                          |
|                           | <b>Daily Max</b>            |                          |                            |                          |                          | 11 0                     |
|                           | <b>Daily Min</b>            |                          |                            |                          | 4 0                      |                          |
|                           | <b>Rolling 12 Month Avg</b> |                          |                            |                          |                          |                          |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                          | 0.2                        |                          |                          |                          |
|                           | <b>LOQ</b>                  |                          | 0.5                        |                          |                          |                          |
|                           | <b>QC Exceedance</b>        | N                        | N                          | N                        | N                        | N                        |
|                           | <b>Lab Certification</b>    |                          | 721026460                  |                          |                          |                          |

| Sample Point   | 001                              | 001                                    | 001                      | 001                      | 001                        |     |    |
|----------------|----------------------------------|--|--------------------------|--------------------------|----------------------------|-----|----|
| Description    | PRIOR TO MENOMINEE RIVER         | PRIOR TO MENOMINEE RIVER               | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER   |     |    |
| Parameter      | 379                              | 376                                    | 388                      | 231                      | 35                         |     |    |
| Description    | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes | Phosphorus, Total        | Hardness, Total as CaCO3 | Arsenic, Total Recoverable |     |    |
| Units          | minutes                          | Number                                 | mg/L                     | mg/L                     | ug/L                       |     |    |
| Sample Type    | CONTINUOUS                       | CONTINUOUS                             | 24 HR COMP               | 24 HR COMP               | 24 HR COMP                 |     |    |
| Frequency      | DAILY                            | DAILY                                  | WEEKLY                   | MONTHLY                  | MONTHLY                    |     |    |
| Sample Results | Day 1                            |  |                          | 0.12                     | 270                        | 16  |    |
|                | 2                                |  |                          |                          |                            |     |    |
|                | 3                                |  |                          |                          |                            |     |    |
|                | 4                                |  |                          |                          |                            |     |    |
|                | 5                                |  |                          |                          |                            |     |    |
|                | 6                                |  |                          |                          |                            |     |    |
|                | 7                                |  |                          |                          |                            |     |    |
|                | 8                                |  |                          |                          | 0.10                       | 240 | 20 |
|                | 9                                |  |                          |                          |                            |     |    |
|                | 10                               |  |                          |                          |                            |     |    |
|                | 11                               |  |                          |                          |                            |     |    |
|                | 12                               |  |                          |                          |                            |     |    |
|                | 13                               |  |                          |                          |                            |     |    |
|                | 14                               |  |                          |                          |                            |     |    |
|                | 15                               |  |                          |                          | 0.20                       | 240 | 14 |
|                | 16                               |  |                          |                          |                            |     |    |
|                | 17                               |  |                          |                          |                            |     |    |
|                | 18                               |  |                          |                          |                            |     |    |
|                | 19                               |  |                          |                          |                            |     |    |
|                | 20                               |  |                          |                          |                            |     |    |
|                | 21                               |  |                          |                          |                            |     |    |
|                | 22                               |  |                          |                          | 0.14                       | 230 | 15 |
|                | 23                               |  |                          |                          |                            |     |    |
|                | 24                               |  |                          |                          |                            |     |    |
|                | 25                               |  |                          |                          |                            |     |    |
|                | 26                               |  |                          |                          |                            |     |    |
|                | 27                               |  |                          |                          |                            |     |    |
|                | 28                               |  |                          |                          |                            |     |    |
|                | 29                               |  |                          |                          |                            |     |    |
|                | 30                               |  |                          |                          |                            |     |    |
|                | 31                               |  |                          |                          |                            |     |    |

| Sample Point              | 001                              | 001                                    | 001                      | 001                      | 001                        |           |   |
|---------------------------|----------------------------------|--|--------------------------|--------------------------|----------------------------|-----------|---|
| Description               | PRIOR TO MENOMINEE RIVER         | PRIOR TO MENOMINEE RIVER               | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER   |           |   |
| Parameter                 | 379                              | 376                                    | 388                      | 231                      | 35                         |           |   |
| Description               | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes | Phosphorus, Total        | Hardness, Total as CaCO3 | Arsenic, Total Recoverable |           |   |
| Units                     | minutes                          | Number                                 | mg/L                     | mg/L                     | ug/L                       |           |   |
| <b>Summary Values</b>     | <b>Monthly Avg</b>               |  |                          | 0.14                     | 245                        | 16.25     |   |
|                           | <b>Monthly Total</b>             |  |                          |                          |                            |           |   |
|                           | <b>Daily Max</b>                 |  |                          | 0.2                      | 270                        | 20        |   |
|                           | <b>Daily Min</b>                 |  |                          | 0.1                      | 230                        | 14        |   |
|                           | <b>Rolling 12 Month Avg</b>      |  |                          | 0.2                      |                            |           |   |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>               |  |                          |                          |                            |           |   |
|                           | <b>Monthly Total</b>             | 446                                    | 0                        |                          |                            |           |   |
|                           | <b>Daily Max</b>                 |  |                          | 0                        | 0                          | 680       | 0 |
|                           | <b>Daily Min</b>                 |  |                          |                          |                            |           |   |
|                           | <b>Rolling 12 Month Avg</b>      |  |                          | 1                        | 0                          |           |   |
| <b>QA/QC Information</b>  | <b>LOD</b>                       |  |                          | 0.024                    |                            | 2.1       |   |
|                           | <b>LOQ</b>                       |  |                          | 0.05                     |                            | 5         |   |
|                           | <b>QC Exceedance</b>             | N                                      | N                        | N                        | N                          | N         |   |
|                           | <b>Lab Certification</b>         |  |                          | 999580010                | 999580010                  | 999580010 |   |

| Sample Point   | 001                        | 001                       | 001                       | 001                        | 001                      |      |
|----------------|----------------------------|---------------------------|---------------------------|----------------------------|--------------------------|------|
| Description    | PRIOR TO MENOMINEE RIVER   | PRIOR TO MENOMINEE RIVER  | PRIOR TO MENOMINEE RIVER  | PRIOR TO MENOMINEE RIVER   | PRIOR TO MENOMINEE RIVER |      |
| Parameter      | 35                         | 147                       | 147                       | 87                         | 152                      |      |
| Description    | Arsenic, Total Recoverable | Copper, Total Recoverable | Copper, Total Recoverable | Cadmium, Total Recoverable | Cyanide, Amenable        |      |
| Units          | lbs/day                    | ug/L                      | lbs/day                   | ug/L                       | ug/L                     |      |
| Sample Type    | CALCULATED                 | 24 HR COMP                | 24 HR COMP                | 24 HR COMP                 | 24 HR COMP               |      |
| Frequency      | MONTHLY                    | MONTHLY                   | MONTHLY                   | MONTHLY                    | MONTHLY                  |      |
| Sample Results | Day 1                      | 0.0216                    | 9.5                       | 0.012825                   | 0.51                     |      |
|                | 2                          |                           |                           |                            |                          |      |
|                | 3                          |                           |                           |                            |                          |      |
|                | 4                          |                           |                           |                            |                          |      |
|                | 5                          |                           |                           |                            |                          |      |
|                | 6                          |                           |                           |                            |                          |      |
|                | 7                          |                           |                           |                            |                          |      |
|                | 8                          | 0.0252                    | 12                        | 0.01512                    | <0.49                    | <3.0 |
|                | 9                          |                           |                           |                            |                          |      |
|                | 10                         |                           |                           |                            |                          |      |
|                | 11                         |                           |                           |                            |                          |      |
|                | 12                         |                           |                           |                            |                          |      |
|                | 13                         |                           |                           |                            |                          |      |
|                | 14                         |                           |                           |                            |                          |      |
|                | 15                         | 0.0168                    | 11                        | 0.0132                     | <0.49                    |      |
|                | 16                         |                           |                           |                            |                          |      |
|                | 17                         |                           |                           |                            |                          |      |
|                | 18                         |                           |                           |                            |                          |      |
|                | 19                         |                           |                           |                            |                          |      |
|                | 20                         |                           |                           |                            |                          |      |
|                | 21                         |                           |                           |                            |                          |      |
|                | 22                         | 0.01935                   | 8.6                       | 0.011094                   | <0.49                    |      |
|                | 23                         |                           |                           |                            |                          |      |
|                | 24                         |                           |                           |                            |                          |      |
|                | 25                         |                           |                           |                            |                          |      |
|                | 26                         |                           |                           |                            |                          |      |
|                | 27                         |                           |                           |                            |                          |      |
|                | 28                         |                           |                           |                            |                          |      |
|                | 29                         |                           |                           |                            |                          |      |
|                | 30                         |                           |                           |                            |                          |      |
|                | 31                         |                           |                           |                            |                          |      |



|                           | Sample Point         | 001                        |   | 001                       |   | 001                       |   | 001                        |  | 001                      |  |
|---------------------------|----------------------|----------------------------|---|---------------------------|---|---------------------------|---|----------------------------|--|--------------------------|--|
|                           | Description          | PRIOR TO MENOMINEE RIVER   |   | PRIOR TO MENOMINEE RIVER  |   | PRIOR TO MENOMINEE RIVER  |   | PRIOR TO MENOMINEE RIVER   |  | PRIOR TO MENOMINEE RIVER |  |
|                           | Parameter            | 35                         |   | 147                       |   | 147                       |   | 87                         |  | 152                      |  |
|                           | Description          | Arsenic, Total Recoverable |   | Copper, Total Recoverable |   | Copper, Total Recoverable |   | Cadmium, Total Recoverable |  | Cyanide, Amenable        |  |
|                           | Units                | lbs/day                    |   | ug/L                      |   | lbs/day                   |   | ug/L                       |  | ug/L                     |  |
| <b>Summary Values</b>     | Monthly Avg          | 0.0207375                  |   | 10.275                    |   | 0.01305975                |   | 0.1275                     |  | 0                        |  |
|                           | Monthly Total        |                            |   |                           |   |                           |   |                            |  |                          |  |
|                           | Daily Max            | 0.0252                     |   | 12                        |   | 0.01512                   |   | 0.51                       |  | <3                       |  |
|                           | Daily Min            | 0.0168                     |   | 8.6                       |   | 0.011094                  |   | <0.49                      |  | <3                       |  |
|                           | Rolling 12 Month Avg |                            |   |                           |   |                           |   |                            |  |                          |  |
| <b>Limit(s) in Effect</b> | Monthly Avg          |                            |   |                           |   |                           |   |                            |  |                          |  |
|                           | Monthly Total        |                            |   |                           |   |                           |   |                            |  |                          |  |
|                           | Daily Max            | 12                         | 0 | 69                        | 0 | 0.98                      | 0 |                            |  |                          |  |
|                           | Daily Min            |                            |   |                           |   |                           |   |                            |  |                          |  |
|                           | Rolling 12 Month Avg |                            |   |                           |   |                           |   |                            |  |                          |  |
| <b>QA/QC Information</b>  | LOD                  |                            |   | 1.7                       |   |                           |   | 0.49                       |  | 3                        |  |
|                           | LOQ                  |                            |   | 5                         |   |                           |   | 1                          |  | 10                       |  |
|                           | QC Exceedance        | N                          |   | N                         |   | N                         |   | N                          |  | N                        |  |
|                           | Lab Certification    |                            |   | 999580010                 |   |                           |   | 999580010                  |  | 999580010                |  |

|                       |                     |                          |                            |                          |                          |                          |
|-----------------------|---------------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|
|                       | <b>Sample Point</b> | 001                      | 001                        | 101                      | 101                      | 101                      |
|                       | <b>Description</b>  | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER   | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
|                       | <b>Parameter</b>    | 112                      | 280                        | 211                      | 457                      | 342                      |
|                       | <b>Description</b>  | Chlorine, Total Residual | Mercury, Total Recoverable | Flow Rate                | Suspended Solids, Total  | Oil & Grease (Freon)     |
|                       | <b>Units</b>        | ug/L                     | ng/L                       | MGD                      | mg/L                     | mg/L                     |
|                       | <b>Sample Type</b>  | GRAB                     | GRAB                       | CONTINUOUS               | 24 HR COMP               | GRAB                     |
|                       | <b>Frequency</b>    | MONTHLY                  | MONTHLY                    | DAILY                    | DAILY                    | 2/WEEK                   |
| <b>Sample Results</b> | <b>Day 1</b>        |                          |                            | 0.027620                 | 2.7                      | <1.4                     |
|                       | <b>2</b>            |                          |                            | 0.034848                 | 3.5                      | 1.4                      |
|                       | <b>3</b>            |                          |                            | 0.019160                 | 3.6                      |                          |
|                       | <b>4</b>            |                          |                            |                          |                          |                          |
|                       | <b>5</b>            |                          |                            |                          |                          |                          |
|                       | <b>6</b>            |                          |                            | 0.023562                 | 12.3                     |                          |
|                       | <b>7</b>            |                          |                            | 0.028938                 | 3.4                      |                          |
|                       | <b>8</b>            |                          |                            | 0.030878                 | 2.0                      | 1.8                      |
|                       | <b>9</b>            |                          |                            | 0.028114                 | 2.2                      | 1.6                      |
|                       | <b>10</b>           |                          |                            | 0.019118                 | 2.0                      |                          |
|                       | <b>11</b>           |                          |                            |                          |                          |                          |
|                       | <b>12</b>           |                          |                            |                          |                          |                          |
|                       | <b>13</b>           |                          |                            | 0.026814                 | 8.7                      |                          |
|                       | <b>14</b>           |                          |                            | 0.032021                 | 2.1                      |                          |
|                       | <b>15</b>           |                          | 20                         | 0.023858                 | 3.7                      | <1.5                     |
|                       | <b>16</b>           |                          |                            | 0.025742                 | 2.9                      | 1.6                      |
|                       | <b>17</b>           |                          |                            | 0.017052                 | 4.1                      |                          |
|                       | <b>18</b>           |                          |                            | 0.009388                 | 3.4                      |                          |
|                       | <b>19</b>           |                          |                            |                          |                          |                          |
|                       | <b>20</b>           |                          |                            | 0.022359                 | 6.1                      |                          |
|                       | <b>21</b>           |                          |                            | 0.029493                 | 3.9                      |                          |
|                       | <b>22</b>           |                          |                            | 0.034038                 | 2.3                      | <1.4                     |
|                       | <b>23</b>           |                          |                            | 0.91                     | 1.6                      | 1.6                      |
|                       | <b>24</b>           |                          |                            | 0.017559                 | 2.4                      |                          |
|                       | <b>25</b>           |                          |                            | 0.008967                 | 4.1                      |                          |
|                       | <b>26</b>           |                          |                            |                          |                          |                          |
|                       | <b>27</b>           |                          |                            | 0.024457                 | 2.4                      |                          |
|                       | <b>28</b>           |                          |                            | 0.017862                 | 3.0                      |                          |
|                       | <b>29</b>           |                          |                            | 0.030883                 | 1.7                      |                          |
|                       | <b>30</b>           |                          |                            | 0.026167                 | 1.5                      |                          |
|                       | <b>31</b>           |                          |                            | 0.018892                 | 1.8                      |                          |

|                           | Sample Point         | 001                      | 001                        | 101                      | 101                      | 101                      |     |   |
|---------------------------|----------------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|-----|---|
|                           | Description          | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER   | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |     |   |
|                           | Parameter            | 112                      | 280                        | 211                      | 457                      | 342                      |     |   |
|                           | Description          | Chlorine, Total Residual | Mercury, Total Recoverable | Flow Rate                | Suspended Solids, Total  | Oil & Grease (Freon)     |     |   |
|                           | Units                | ug/L                     | ng/L                       | MGD                      | mg/L                     | mg/L                     |     |   |
| <b>Summary Values</b>     | Monthly Avg          | 20                       | 0.91                       | 0.02451796               | 3.496                    | 1                        |     |   |
|                           | Monthly Total        |                          |                            |                          |                          |                          |     |   |
|                           | Daily Max            | 20                       | 0.91                       | 0.035159                 | 12.3                     | 1.8                      |     |   |
|                           | Daily Min            | 20                       | 0.91                       | 0.008967                 | 1.5                      | <1.4                     |     |   |
|                           | Rolling 12 Month Avg |                          |                            |                          |                          |                          |     |   |
| <b>Limit(s) in Effect</b> | Monthly Avg          |                          |                            |                          | 31                       | 0                        | 26  | 0 |
|                           | Monthly Total        |                          |                            |                          |                          |                          |     |   |
|                           | Daily Max            |                          |                            |                          | 60                       | 0                        | 52  | 0 |
|                           | Daily Min            |                          |                            |                          |                          |                          |     |   |
|                           | Rolling 12 Month Avg |                          |                            |                          |                          |                          |     |   |
| <b>QA/QC Information</b>  | LOD                  | 30                       | 0.2                        |                          |                          |                          | 1.4 |   |
|                           | LOQ                  | 100                      | 0.5                        |                          |                          |                          | 5.6 |   |
|                           | QC Exceedance        | N                        | N                          | N                        | N                        | N                        | N   |   |
|                           | Lab Certification    |                          | 721026460                  |                          | 438039470                | 999580010                |     |   |

| Sample Point   | 101                        | 101                         | 101                       | 101                      | 101                      |      |
|----------------|----------------------------|-----------------------------|---------------------------|--------------------------|--------------------------|------|
| Description    | Metal Finishing Effluent   | Metal Finishing Effluent    | Metal Finishing Effluent  | Metal Finishing Effluent | Metal Finishing Effluent |      |
| Parameter      | 87                         | 133                         | 315                       | 553                      | 155                      |      |
| Description    | Cadmium, Total Recoverable | Chromium, Total Recoverable | Nickel, Total Recoverable | Zinc, Total Recoverable  | Cyanide, Total           |      |
| Units          | ug/L                       | ug/L                        | ug/L                      | ug/L                     | ug/L                     |      |
| Sample Type    | 24 HR COMP                 | 24 HR COMP                  | 24 HR COMP                | 24 HR COMP               | GRAB                     |      |
| Frequency      | 2/WEEK                     | MONTHLY                     | 2/WEEK                    | 2/WEEK                   | MONTHLY                  |      |
| Sample Results | Day 1                      | <0.49                       | <2.2                      | 14                       | 66                       |      |
|                | 2                          | 0.50                        | <2.2                      | 13                       | 39                       |      |
|                | 3                          |                             |                           |                          |                          |      |
|                | 4                          |                             |                           |                          |                          |      |
|                | 5                          |                             |                           |                          |                          |      |
|                | 6                          |                             |                           |                          |                          |      |
|                | 7                          |                             |                           |                          |                          |      |
|                | 8                          | <0.49                       | <2.2                      | 34                       | 63                       | <3.0 |
|                | 9                          | <0.49                       | <2.2                      | 47                       | 77                       |      |
|                | 10                         |                             |                           |                          |                          |      |
|                | 11                         |                             |                           |                          |                          |      |
|                | 12                         |                             |                           |                          |                          |      |
|                | 13                         |                             |                           |                          |                          |      |
|                | 14                         |                             |                           |                          |                          |      |
|                | 15                         | <0.49                       | <2.2                      | 150                      | 330                      |      |
|                | 16                         | <0.49                       | 3.3                       | 260                      | 270                      |      |
|                | 17                         |                             |                           |                          |                          |      |
|                | 18                         |                             |                           |                          |                          |      |
|                | 19                         |                             |                           |                          |                          |      |
|                | 20                         |                             |                           |                          |                          |      |
|                | 21                         |                             |                           |                          |                          |      |
|                | 22                         | <0.49                       | <2.2                      | 170                      | 380                      |      |
|                | 23                         | 0.72                        | 18                        | 2100                     | 1500                     |      |
|                | 24                         |                             |                           |                          |                          |      |
|                | 25                         |                             |                           |                          |                          |      |
|                | 26                         |                             |                           |                          |                          |      |
|                | 27                         |                             |                           |                          |                          |      |
|                | 28                         |                             |                           |                          |                          |      |
|                | 29                         |                             |                           |                          |                          |      |
|                | 30                         |                             |                           |                          |                          |      |
|                | 31                         |                             |                           |                          |                          |      |

|                           |                             |                            |   |                             |   |                           |   |                          |   |                          |   |
|---------------------------|-----------------------------|----------------------------|---|-----------------------------|---|---------------------------|---|--------------------------|---|--------------------------|---|
|                           | <b>Sample Point</b>         | 101                        |   | 101                         |   | 101                       |   | 101                      |   | 101                      |   |
|                           | <b>Description</b>          | Metal Finishing Effluent   |   | Metal Finishing Effluent    |   | Metal Finishing Effluent  |   | Metal Finishing Effluent |   | Metal Finishing Effluent |   |
|                           | <b>Parameter</b>            | 87                         |   | 133                         |   | 315                       |   | 553                      |   | 155                      |   |
|                           | <b>Description</b>          | Cadmium, Total Recoverable |   | Chromium, Total Recoverable |   | Nickel, Total Recoverable |   | Zinc, Total Recoverable  |   | Cyanide, Total           |   |
|                           | <b>Units</b>                | ug/L                       |   | ug/L                        |   | ug/L                      |   | ug/L                     |   | ug/L                     |   |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 0.1525                     |   | 2.6625                      |   | 348.5                     |   | 340.625                  |   | 0                        |   |
|                           | <b>Monthly Total</b>        |                            |   |                             |   |                           |   |                          |   |                          |   |
|                           | <b>Daily Max</b>            | 0.72                       |   | 18                          |   | 2100                      |   | 1500                     |   | <3                       |   |
|                           | <b>Daily Min</b>            | <0.49                      |   | <2.2                        |   | 13                        |   | 39                       |   | <3                       |   |
|                           | <b>Rolling 12 Month Avg</b> |                            |   |                             |   |                           |   |                          |   |                          |   |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          | 260                        | 0 | 1710                        | 0 | 2380                      | 0 | 1480                     | 0 | 650                      | 0 |
|                           | <b>Monthly Total</b>        |                            |   |                             |   |                           |   |                          |   |                          |   |
|                           | <b>Daily Max</b>            | 690                        | 0 | 2770                        | 0 | 3980                      | 0 | 2610                     | 0 | 1200                     | 0 |
|                           | <b>Daily Min</b>            |                            |   |                             |   |                           |   |                          |   |                          |   |
|                           | <b>Rolling 12 Month Avg</b> |                            |   |                             |   |                           |   |                          |   |                          |   |
| <b>QA/QC Information</b>  | <b>LOD</b>                  | 0.49                       |   | 2.2                         |   | 1.5                       |   | 3.6                      |   | 3                        |   |
|                           | <b>LOQ</b>                  | 1                          |   | 5                           |   | 5                         |   | 10                       |   | 10                       |   |
|                           | <b>QC Exceedance</b>        | N                          |   | N                           |   | N                         |   | N                        |   | N                        |   |
|                           | <b>Lab Certification</b>    | 999580010                  |   | 999580010                   |   | 999580010                 |   | 999580010                |   | 999580010                |   |

|                       |                     |                           |                          |                           |                          |                          |
|-----------------------|---------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|
|                       | <b>Sample Point</b> | 101                       | 101                      | 101                       | 101                      | 101                      |
|                       | <b>Description</b>  | Metal Finishing Effluent  | Metal Finishing Effluent | Metal Finishing Effluent  | Metal Finishing Effluent | Metal Finishing Effluent |
|                       | <b>Parameter</b>    | 147                       | 264                      | 430                       | 374                      | 373                      |
|                       | <b>Description</b>  | Copper, Total Recoverable | Lead, Total Recoverable  | Silver, Total Recoverable | pH (Minimum)             | pH (Maximum)             |
|                       | <b>Units</b>        | ug/L                      | ug/L                     | ug/L                      | su                       | su                       |
|                       | <b>Sample Type</b>  | 24 HR COMP                | 24 HR COMP               | 24 HR COMP                | CONTINUOUS               | CONTINUOUS               |
|                       | <b>Frequency</b>    | 2WEEK                     | MONTHLY                  | MONTHLY                   | DAILY                    | DAILY                    |
| <b>Sample Results</b> | <b>Day 1</b>        | 4.8                       | <1.3                     | <1.1                      | 7.4                      | 7.9                      |
|                       | <b>2</b>            | 4.3                       | <1.3                     | <1.1                      | 7.5                      | 8.1                      |
|                       | <b>3</b>            |                           |                          |                           | 7.4                      | 8.0                      |
|                       | <b>4</b>            |                           |                          |                           |                          |                          |
|                       | <b>5</b>            |                           |                          |                           |                          |                          |
|                       | <b>6</b>            |                           |                          |                           | 7.4                      | 7.9                      |
|                       | <b>7</b>            |                           |                          |                           | 7.3                      | 7.9                      |
|                       | <b>8</b>            | 7.5                       | <1.3                     | <1.1                      | 7.7                      | 8.1                      |
|                       | <b>9</b>            | 6.0                       | <1.3                     | <1.1                      | 7.3                      | 8.0                      |
|                       | <b>10</b>           |                           |                          |                           | 7.7                      | 8.0                      |
|                       | <b>11</b>           |                           |                          |                           |                          |                          |
|                       | <b>12</b>           |                           |                          |                           |                          |                          |
|                       | <b>13</b>           |                           |                          |                           | 7.7                      | 8.0                      |
|                       | <b>14</b>           |                           |                          |                           | 7.6                      | 7.8                      |
|                       | <b>15</b>           | 3.4                       | <1.3                     | <1.1                      | 7.6                      | 7.8                      |
|                       | <b>16</b>           | 2.7                       | <1.3                     | <1.1                      | 7.2                      | 7.8                      |
|                       | <b>17</b>           |                           |                          |                           | 7.4                      | 7.7                      |
|                       | <b>18</b>           |                           |                          |                           | 7.7                      | 7.8                      |
|                       | <b>19</b>           |                           |                          |                           |                          |                          |
|                       | <b>20</b>           |                           |                          |                           | 7.2                      | 8.0                      |
|                       | <b>21</b>           |                           |                          |                           | 7.7                      | 7.9                      |
|                       | <b>22</b>           | 5.4                       | <1.3                     | <1.1                      | 7.7                      | 7.9                      |
|                       | <b>23</b>           | 9.8                       | <1.3                     | <1.1                      | 7.9                      | 8.0                      |
|                       | <b>24</b>           |                           |                          |                           | 7.3                      | 8.0                      |
|                       | <b>25</b>           |                           |                          |                           | 7.5                      | 7.8                      |
|                       | <b>26</b>           |                           |                          |                           |                          |                          |
|                       | <b>27</b>           |                           |                          |                           | 7.5                      | 7.8                      |
|                       | <b>28</b>           |                           |                          |                           | 7.0                      | 7.7                      |
|                       | <b>29</b>           |                           |                          |                           | 7.3                      | 7.6                      |
|                       | <b>30</b>           |                           |                          |                           | 7.5                      | 7.8                      |
|                       | <b>31</b>           |                           |                          |                           | 7.4                      | 7.7                      |

|                           | 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                       |   | 264                      |   | 430                       |   | 374                      |   | 373                      |   |
|                           | Description          | Copper, Total Recoverable |   | Lead, Total Recoverable  |   | Silver, Total Recoverable |   | pH (Minimum)             |   | pH (Maximum)             |   |
|                           | Units                | ug/L                      |   | ug/L                     |   | ug/L                      |   | su                       |   | su                       |   |
| <b>Summary Values</b>     | Monthly Avg          | 5.4875                    |   | 0                        |   | 0                         |   | 7.476                    |   | 7.88                     |   |
|                           | Monthly Total        |                           |   |                          |   |                           |   |                          |   |                          |   |
|                           | Daily Max            | 9.8                       |   | <1.3                     |   | <1.1                      |   | 7.9                      |   | 8.1                      |   |
|                           | Daily Min            | 2.7                       |   | <1.3                     |   | <1.1                      |   | 7                        |   | 7.6                      |   |
|                           | Rolling 12 Month Avg |                           |   |                          |   |                           |   |                          |   |                          |   |
| <b>Limit(s) in Effect</b> | Monthly Avg          | 2070                      | 0 | 430                      | 0 | 240                       | 0 |                          |   |                          |   |
|                           | Monthly Total        |                           |   |                          |   |                           |   |                          |   |                          |   |
|                           | Daily Max            | 3380                      | 0 | 690                      | 0 | 430                       | 0 |                          |   | 11                       | 0 |
|                           | Daily Min            |                           |   |                          |   |                           |   | 4                        | 0 |                          |   |
|                           | Rolling 12 Month Avg |                           |   |                          |   |                           |   |                          |   |                          |   |
| <b>QA/QC Information</b>  | LOD                  | 1.7                       |   | 1.3                      |   | 1.1                       |   |                          |   |                          |   |
|                           | LOQ                  | 5                         |   | 2.5                      |   | 2.5                       |   |                          |   |                          |   |
|                           | QC Exceedance        | N                         |   | N                        |   | N                         |   | N                        |   | N                        |   |
|                           | Lab Certification    | 999580010                 |   | 999580010                |   | 999580010                 |   |                          |   |                          |   |

|                       |                     |                                  |  |                          |                          |                          |
|-----------------------|---------------------|----------------------------------|--|--------------------------|--------------------------|--------------------------|
|                       | <b>Sample Point</b> | 101                              | 101                                    | 101                      | 101                      | 101                      |
|                       | <b>Description</b>  | Metal Finishing Effluent         | Metal Finishing Effluent               | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
|                       | <b>Parameter</b>    | 379                              | 376                                    | 507                      | 40                       | 490                      |
|                       | <b>Description</b>  | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes | Total Toxic Organics     | Benzene                  | Tetrachloroethylene      |
|                       | <b>Units</b>        | minutes                          | Number                                 | ug/L                     | ug/L                     | ug/L                     |
|                       | <b>Sample Type</b>  | CALCULATED                       | CALCULATED                             | 24 HR COMP               | 24 HR COMP               | 24 HR COMP               |
|                       | <b>Frequency</b>    | DAILY                            | DAILY                                  | MONTHLY                  | MONTHLY                  | MONTHLY                  |
| <b>Sample Results</b> | <b>Day 1</b>        |                                  |  |                          |                          |                          |
|                       | 2                   |                                  |  |                          |                          |                          |
|                       | 3                   |                                  |  |                          |                          |                          |
|                       | 4                   |                                  |  |                          |                          |                          |
|                       | 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                  |                                  |  |                          |                          |                          |



|                           |                             |                                  |   |  |   |                          |  |                          |  |                          |  |
|---------------------------|-----------------------------|----------------------------------|---|--|---|--------------------------|--|--------------------------|--|--------------------------|--|
|                           | <b>Sample Point</b>         | 101                              |   | 101                                    |   | 101                      |  | 101                      |  | 101                      |  |
|                           | <b>Description</b>          | Metal Finishing Effluent         |   | Metal Finishing Effluent               |   | Metal Finishing Effluent |  | Metal Finishing Effluent |  | Metal Finishing Effluent |  |
|                           | <b>Parameter</b>            | 379                              |   | 376                                    |   | 507                      |  | 40                       |  | 490                      |  |
|                           | <b>Description</b>          | pH Total Exceedance Time Minutes |   | pH Exceedances Greater Than 60 Minutes |   | Total Toxic Organics     |  | Benzene                  |  | Tetrachloroethylene      |  |
|                           | <b>Units</b>                | minutes                          |   | Number                                 |   | ug/L                     |  | ug/L                     |  | ug/L                     |  |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Monthly Total</b>        |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Daily Max</b>            |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Daily Min</b>            |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Rolling 12 Month Avg</b> |                                  |   |  |   |                          |  |                          |  |                          |  |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Monthly Total</b>        | 446                              | 0 | 0                                      | 0 |                          |  |                          |  |                          |  |
|                           | <b>Daily Max</b>            |                                  |   |  |   | 2130                     |  |                          |  |                          |  |
|                           | <b>Daily Min</b>            |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Rolling 12 Month Avg</b> |                                  |   |  |   |                          |  |                          |  |                          |  |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>LOQ</b>                  |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>QC Exceedance</b>        | N                                |   | N                                      |   | N                        |  | N                        |  | N                        |  |
|                           | <b>Lab Certification</b>    |                                  |   |  |   |                          |  |                          |  |                          |  |

|                       |                     |                          |                          |                          |                          |                          |
|-----------------------|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                       | <b>Sample Point</b> | 101                      | 101                      | 101                      | 101                      | 101                      |
|                       | <b>Description</b>  | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
|                       | <b>Parameter</b>    | 500                      | 561                      | 200                      | 508                      | 285                      |
|                       | <b>Description</b>  | Toluene                  | 1,1,1-Trichloro- ethane  | Ethylbenzene             | Trichloro- ethylene      | Methylene chloride       |
|                       | <b>Units</b>        | ug/L                     | ug/L                     | ug/L                     | ug/L                     | ug/L                     |
|                       | <b>Sample Type</b>  | 24 HR COMP               | 24 HR COMP               | 24 HR COMP               | 24 HR COMP               | 24 HR COMP               |
|                       | <b>Frequency</b>    | MONTHLY                  | MONTHLY                  | MONTHLY                  | MONTHLY                  | MONTHLY                  |
| <b>Sample Results</b> | <b>Day 1</b>        |                          |                          |                          |                          |                          |
|                       | 2                   |                          |                          |                          |                          |                          |
|                       | 3                   |                          |                          |                          |                          |                          |
|                       | 4                   |                          |                          |                          |                          |                          |
|                       | 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                  |                          |                          |                          |                          |                          |

|                           |                             |                          |                          |                          |                          |                          |
|---------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                           | <b>Sample Point</b>         | 101                      | 101                      | 101                      | 101                      | 101                      |
|                           | <b>Description</b>          | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
|                           | <b>Parameter</b>            | 500                      | 561                      | 200                      | 508                      | 285                      |
|                           | <b>Description</b>          | Toluene                  | 1,1,1-Trichloro- ethane  | Ethylbenzene             | Trichloro- ethylene      | Methylene chloride       |
|                           | <b>Units</b>                | ug/L                     | ug/L                     | ug/L                     | ug/L                     | ug/L                     |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          |                          |                          |                          |                          |                          |
|                           | <b>Monthly Total</b>        |                          |                          |                          |                          |                          |
|                           | <b>Daily Max</b>            |                          |                          |                          |                          |                          |
|                           | <b>Daily Min</b>            |                          |                          |                          |                          |                          |
|                           | <b>Rolling 12 Month Avg</b> |                          |                          |                          |                          |                          |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                          |                          |                          |                          |                          |
|                           | <b>Monthly Total</b>        |                          |                          |                          |                          |                          |
|                           | <b>Daily Max</b>            |                          |                          |                          |                          |                          |
|                           | <b>Daily Min</b>            |                          |                          |                          |                          |                          |
|                           | <b>Rolling 12 Month Avg</b> |                          |                          |                          |                          |                          |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                          |                          |                          |                          |                          |
|                           | <b>LOQ</b>                  |                          |                          |                          |                          |                          |
|                           | <b>QC Exceedance</b>        |                          |                          |                          |                          |                          |
|                           | <b>Lab Certification</b>    |                          |                          |                          |                          |                          |

| Sample Point   | 101                                      | 106                       | 106                        | 106                       | 107                         |       |
|----------------|--|---------------------------|----------------------------|---------------------------|-----------------------------|-------|
| Description    | Metal Finishing Effluent                 | Future remedial action ww | Future remedial action ww  | Future remedial action ww | Mercury Field Blank Results |       |
| Parameter      | 167                                      | 211                       | 35                         | 457                       | 280                         |       |
| Description    | Di-n-butyl phthalate (dibutyl phthalate) | Flow Rate                 | Arsenic, Total Recoverable | Suspended Solids, Total   | Mercury, Total Recoverable  |       |
| Units          | ug/L                                     | gpd                       | ug/L                       | mg/L                      | ng/L                        |       |
| Sample Type    | 24 HR COMP                               | CONTINUOUS                | 24 HR COMP                 | 24 HR COMP                | GRAB                        |       |
| Frequency      | MONTHLY                                  | DAILY                     | WEEKLY                     | WEEKLY                    | 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                                       |                           |                            |                           |                             | <0.20 |
|                | 24                                       |                           |                            |                           |                             |       |
|                | 25                                       |                           |                            |                           |                             |       |
|                | 26                                       |                           |                            |                           |                             |       |
|                | 27                                       |                           |                            |                           |                             |       |
|                | 28                                       |                           |                            |                           |                             |       |
|                | 29                                       |                           |                            |                           |                             |       |
|                | 30                                       |                           |                            |                           |                             |       |
|                | 31                                       |                           |                            |                           |                             |       |

| Sample Point       | 101                                      | 106                       | 106                        | 106                       | 107                         |
|--------------------|--|---------------------------|----------------------------|---------------------------|-----------------------------|
| Description        | Metal Finishing Effluent                 | Future remedial action ww | Future remedial action ww  | Future remedial action ww | Mercury Field Blank Results |
| Parameter          | 167                                      | 211                       | 35                         | 457                       | 280                         |
| Description        | Di-n-butyl phthalate (dibutyl phthalate) | Flow Rate                 | Arsenic, Total Recoverable | Suspended Solids, Total   | Mercury, Total Recoverable  |
| Units              | ug/L                                     | gpd                       | ug/L                       | mg/L                      | ng/L                        |
| Summary Values     | Monthly Avg                              |                           |                            |                           | 0                           |
|                    | Monthly Total                            |                           |                            |                           |                             |
|                    | Daily Max                                |                           |                            |                           | <0.2                        |
|                    | Daily Min                                |                           |                            |                           | <0.2                        |
|                    | Rolling 12 Month Avg                     |                           |                            |                           |                             |
| Limit(s) in Effect | Monthly Avg                              |                           |                            |                           |                             |
|                    | Monthly Total                            |                           |                            |                           |                             |
|                    | Daily Max                                |                           |                            |                           |                             |
|                    | Daily Min                                |                           |                            |                           |                             |
|                    | Rolling 12 Month Avg                     |                           |                            |                           |                             |
| QA/QC Information  | LOD                                      |                           |                            |                           | 0.2                         |
|                    | LOQ                                      |                           |                            |                           | 0.5                         |
|                    | QC Exceedance                            | N                         | N                          | N                         | N                           |
|                    | Lab Certification                        |                           |                            |                           | 721026460                   |

| Sample Point   | 003                           | 003                           | 003                           | 003                           | 003                           |     |
|----------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----|
| Description    | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg |     |
| Parameter      | 211                           | 457                           | 35                            | 374                           | 373                           |     |
| Description    | Flow Rate                     | Suspended Solids, Total       | Arsenic, Total Recoverable    | pH (Minimum)                  | pH (Maximum)                  |     |
| Units          | MGD                           | mg/L                          | ug/L                          | su                            | su                            |     |
| Sample Type    | CONTINUOUS                    | 24 HR COMP                    | 24 HR COMP                    | CONTINUOUS                    | CONTINUOUS                    |     |
| Frequency      | DAILY                         | WEEKLY                        | WEEKLY                        | DAILY                         | DAILY                         |     |
| Sample Results | Day 1                         | 0.012048                      |                               | 6.3                           | 6.8                           |     |
|                | 2                             | 0.009285                      | <1.0                          | 6.9                           | 7.7                           |     |
|                | 3                             | 0.011289                      |                               | 6.8                           | 9.0                           |     |
|                | 4                             |                               |                               |                               |                               |     |
|                | 5                             |                               |                               |                               |                               |     |
|                | 6                             | 0.012911                      |                               | 6.0                           | 8.5                           |     |
|                | 7                             |                               |                               |                               |                               |     |
|                | 8                             | 0.002494                      |                               | 7.2                           | 7.2                           |     |
|                | 9                             | 0.008097                      | <1.0                          | 120                           | 7.7                           | 8.5 |
|                | 10                            |                               |                               |                               |                               |     |
|                | 11                            |                               |                               |                               |                               |     |
|                | 12                            |                               |                               |                               |                               |     |
|                | 13                            |                               |                               |                               |                               |     |
|                | 14                            |                               |                               |                               |                               |     |
|                | 15                            |                               |                               |                               |                               |     |
|                | 16                            |                               |                               |                               |                               |     |
|                | 17                            |                               |                               |                               |                               |     |
|                | 18                            |                               |                               |                               |                               |     |
|                | 19                            |                               |                               |                               |                               |     |
|                | 20                            |                               |                               |                               |                               |     |
|                | 21                            |                               |                               |                               |                               |     |
|                | 22                            |                               |                               |                               |                               |     |
|                | 23                            |                               |                               |                               |                               |     |
|                | 24                            |                               |                               |                               |                               |     |
|                | 25                            |                               |                               |                               |                               |     |
|                | 26                            |                               |                               |                               |                               |     |
|                | 27                            |                               |                               |                               |                               |     |
|                | 28                            |                               |                               |                               |                               |     |
|                | 29                            |                               |                               |                               |                               |     |
|                | 30                            |                               |                               |                               |                               |     |
|                | 31                            |                               |                               |                               |                               |     |

|                           | Sample Point         | 003                           |  | 003                           |  | 003                           |   | 003                           |      |
|---------------------------|----------------------|-------------------------------|--|-------------------------------|--|-------------------------------|---|-------------------------------|------|
|                           | Description          | Future remedial action dischg |  | Future remedial action dischg |  | Future remedial action dischg |   | Future remedial action dischg |      |
|                           | Parameter            | 211                           |  | 457                           |  | 35                            |   | 374                           |      |
|                           | Description          | Flow Rate                     |  | Suspended Solids, Total       |  | Arsenic, Total Recoverable    |   | pH (Minimum)                  |      |
|                           | Units                | MGD                           |  | mg/L                          |  | ug/L                          |   | su                            |      |
| <b>Summary Values</b>     | Monthly Avg          | 0.009354                      |  | 0                             |  | 75.5                          |   | 6.816666667                   |      |
|                           | Monthly Total        |                               |  |                               |  |                               |   |                               |      |
|                           | Daily Max            | 0.012911                      |  | <1                            |  | 120                           |   | 7.7                           |      |
|                           | Daily Min            | 0.002494                      |  | <1                            |  | 31                            |   | 6                             |      |
|                           | Rolling 12 Month Avg |                               |  |                               |  |                               |   |                               |      |
| <b>Limit(s) in Effect</b> | Monthly Avg          |                               |  |                               |  |                               |   |                               |      |
|                           | Monthly Total        |                               |  |                               |  |                               |   |                               |      |
|                           | Daily Max            |                               |  |                               |  | 680                           | 0 |                               | 11 0 |
|                           | Daily Min            |                               |  |                               |  |                               |   | 4 0                           |      |
|                           | Rolling 12 Month Avg |                               |  |                               |  |                               |   |                               |      |
| <b>QA/QC Information</b>  | LOD                  |                               |  |                               |  | 2.1                           |   |                               |      |
|                           | LOQ                  |                               |  |                               |  | 5                             |   |                               |      |
|                           | QC Exceedance        | N                             |  | N                             |  | N                             |   | N                             |      |
|                           | Lab Certification    |                               |  | 438039470                     |  | 999580010                     |   |                               |      |

|                       |                     |                                  |  |
|-----------------------|---------------------|----------------------------------|--|
|                       | <b>Sample Point</b> | 003                              | 003                                    |
|                       | <b>Description</b>  | Future remedial action dischg    | Future remedial action dischg          |
|                       | <b>Parameter</b>    | 379                              | 376                                    |
|                       | <b>Description</b>  | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes |
|                       | <b>Units</b>        | minutes                          | Number                                 |
|                       | <b>Sample Type</b>  | CONTINUOUS                       | CONTINUOUS                             |
|                       | <b>Frequency</b>    | DAILY                            | DAILY                                  |
| <b>Sample Results</b> | <b>Day 1</b>        |                                  |  |
|                       | <b>2</b>            |                                  |  |
|                       | <b>3</b>            |                                  |  |
|                       | <b>4</b>            |                                  |  |
|                       | <b>5</b>            |                                  |  |
|                       | <b>6</b>            |                                  |  |
|                       | <b>7</b>            |                                  |  |
|                       | <b>8</b>            |                                  |  |
|                       | <b>9</b>            |                                  |  |
|                       | <b>10</b>           |                                  |  |
|                       | <b>11</b>           |                                  |  |
|                       | <b>12</b>           |                                  |  |
|                       | <b>13</b>           |                                  |  |
|                       | <b>14</b>           |                                  |  |
|                       | <b>15</b>           |                                  |  |
|                       | <b>16</b>           |                                  |  |
|                       | <b>17</b>           |                                  |  |
|                       | <b>18</b>           |                                  |  |
|                       | <b>19</b>           |                                  |  |
|                       | <b>20</b>           |                                  |  |
|                       | <b>21</b>           |                                  |  |
|                       | <b>22</b>           |                                  |  |
|                       | <b>23</b>           |                                  |  |
|                       | <b>24</b>           |                                  |  |
|                       | <b>25</b>           |                                  |  |
|                       | <b>26</b>           |                                  |  |
|                       | <b>27</b>           |                                  |  |
|                       | <b>28</b>           |                                  |  |
|                       | <b>29</b>           |                                  |  |
|                       | <b>30</b>           |                                  |  |
|                       | <b>31</b>           |                                  |  |



|                           |                             |                                  |   |  |   |
|---------------------------|-----------------------------|----------------------------------|---|--|---|
|                           | <b>Sample Point</b>         | 003                              |   | 003                                    |   |
|                           | <b>Description</b>          | Future remedial action dischg    |   | Future remedial action dischg          |   |
|                           | <b>Parameter</b>            | 379                              |   | 376                                    |   |
|                           | <b>Description</b>          | pH Total Exceedance Time Minutes |   | pH Exceedances Greater Than 60 Minutes |   |
|                           | <b>Units</b>                | minutes                          |   | Number                                 |   |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          |                                  |   |  |   |
|                           | <b>Monthly Total</b>        |                                  |   |  |   |
|                           | <b>Daily Max</b>            |                                  |   |  |   |
|                           | <b>Daily Min</b>            |                                  |   |  |   |
|                           | <b>Rolling 12 Month Avg</b> |                                  |   |  |   |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                                  |   |  |   |
|                           | <b>Monthly Total</b>        | 446                              | 0 |  |   |
|                           | <b>Daily Max</b>            |                                  |   | 0                                      | 0 |
|                           | <b>Daily Min</b>            |                                  |   |  |   |
|                           | <b>Rolling 12 Month Avg</b> |                                  |   |  |   |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                                  |   |  |   |
|                           | <b>LOQ</b>                  |                                  |   |  |   |
|                           | <b>QC Exceedance</b>        | N                                |   | N                                      |   |
|                           | <b>Lab Certification</b>    |                                  |   |  |   |

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

1. Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for TTO I certify that to the best of my knowledge and belief no dumping of concentrated toxic organics into the wastewaters has
2. occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the solvent management plan submitted to the department.

General Remarks

OF003 has been shut down since 8/9/18 so, we had only two weeks of sampling. We are working on maintenance issues.

Laboratory Quality Control Comments



eReport Submit - TYCO FIRE PRODUCTS LP - 437897

Facility Name  
TYCO FIRE PRODUCTS LP  
Form Type  
Wastewater Discharge Monitoring Long Report  
DOC ID  
406456  
Reporting Period  
9/1/2018 to 9/30/2018

|                 |
|-----------------|
| Finalize Submit |
| Goto List       |

Once this file has been submitted, it will no longer be editable. Click 'Finalize Submit' button to continue.

The Official Internet site for the Wisconsin Department of Natural Resources

101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

Questions or comments about this e-form : [Contact Us](#)



eReport Certify - TYCO FIRE PRODUCTS LP - 437897

Facility Name  
TYCO FIRE PRODUCTS LP  
Form Type  
Wastewater Discharge Monitoring Long Report  
DOC ID  
406456  
Reporting Period  
9/1/2018 to 9/30/2018  
Enter Certification Code

E-Mail was sent to  
afleury@tycoint.com

Certification complete.

The Official Internet site for the Wisconsin Department of Natural Resources

101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

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eReport Certify - TYCO FIRE PRODUCTS LP - 437897

Facility Name  
TYCO FIRE PRODUCTS LP  
Form Type  
Wastewater Discharge Monitoring Long Report  
DOC ID  
406456  
Reporting Period  
9/1/2018 to 9/30/2018  
Enter Certification Code

E-Mail was sent to  
afleury@tycoint.com

Without leaving THIS page, check E-Mail address for message containing Certification code. Enter code and click 'Certify' button to complete Submittal.

Submittal of this form is required by section 283.55, Wis. Stats., and chapters NR 205 and NR 214 or NR 204, Wis. Admin. Code.

Personally identifiable information collected on this form may be used for purposes other than that for which it was originally collected. Under Wisconsin's open records laws, DNR is required to provide all non-confidential information to any person who requests it. Such information may be provided to the public in written or electronic form. Information reported may be made available to the public via a DNR web page.

I certify under penalty of law that this form submitted to DNR on 10/9/2018 for the period 9/1/2018 to 9/30/2018 and identified by the DOC ID number listed above was 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.

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101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

Questions or comments about this e-form : [Contact Us](#)

Facility Name: TYCO FIRE PROTECTION PRODUCTS LP  
 Contact Address: One Stanton St  
 Marinette, WI 54143  
 Facility Contact: Mike Elliott, EHS Manager  
 Phone Number: 715-735-7411  
 Reporting Period: 09/01/2018 - 09/30/2018  
 Form Due Date: 10/21/2018  
 Permit Number: 0001040

Date Received:  
 DOC: 406456  
 FIN: 7245  
 FID: 438039470  
 Region: Northeast Region  
 Permit Drafter: Trevor J Moen  
 Reviewer: Nicole E Krueger  
 Office: Green Bay

|                | Sample Point | 001                      | 703                        | 001                      | 001                      | 001                      |
|----------------|--------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|
|                | Description  | PRIOR TO MENOMINEE RIVER | Intake Water Monitoring    | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER |
|                | Parameter    | 211                      | 280                        | 487                      | 374                      | 373                      |
|                | Description  | Flow Rate                | Mercury, Total Recoverable | Temperature              | pH (Minimum)             | pH (Maximum)             |
|                | Units        | MGD                      | ng/L                       | degF                     | su                       | su                       |
|                | Sample Type  | CONTINUOUS               | GRAB                       | GRAB                     | CONTINUOUS               | CONTINUOUS               |
|                | Frequency    | DAILY                    | MONTHLY                    | MONTHLY                  | DAILY                    | DAILY                    |
| Sample Results | <b>Day 1</b> | 0.02217                  |                            | 81                       | 7.3                      | 7.8                      |
|                | <b>2</b>     | 0.00201                  |                            | 82                       | 7.7                      | 7.9                      |
|                | <b>3</b>     | 0.20414                  |                            | 81                       | 6.6                      | 7.9                      |
|                | <b>4</b>     | 0.20734                  |                            | 77                       | 6.7                      | 7.0                      |
|                | <b>5</b>     | 0.20168                  |                            | 76                       | 6.4                      | 6.9                      |
|                | <b>6</b>     | 0.14941                  |                            | 76                       | 6.7                      | 6.9                      |
|                | <b>7</b>     | 0.12124                  |                            | 94                       | 6.8                      | 7.0                      |
|                | <b>8</b>     | 0.00468                  |                            | 76                       | 7.0                      | 7.6                      |
|                | <b>9</b>     | 0.04777                  |                            | 79                       | 7.2                      | 8.0                      |
|                | <b>10</b>    | 0.13730                  |                            | 77                       | 7.0                      | 7.6                      |
|                | <b>11</b>    | 0.12992                  |                            | 78                       | 7.0                      | 7.6                      |
|                | <b>12</b>    | 0.14199                  |                            | 78                       | 6.9                      | 7.5                      |
|                | <b>13</b>    | 0.12660                  |                            | 78                       | 6.8                      | 7.1                      |
|                | <b>14</b>    | 0.11252                  |                            | 78                       | 6.8                      | 7.4                      |
|                | <b>15</b>    | 0.07329                  |                            | 77                       | 6.7                      | 7.5                      |
|                | <b>16</b>    | 0.04728                  |                            | 81                       | 6.8                      | 8.0                      |
|                | <b>17</b>    | 0.12988                  |                            | 79                       | 6.7                      | 7.4                      |
|                | <b>18</b>    | 0.13703                  | 1.6                        | 77                       | 7.0                      | 7.4                      |
|                | <b>19</b>    | 0.12464                  |                            | 77                       | 6.4                      | 7.2                      |
|                | <b>20</b>    | 0.10017                  |                            | 77                       | 6.2                      | 6.6                      |
|                | <b>21</b>    | 0.00692                  |                            | 74                       | 6.4                      | 7.2                      |
|                | <b>22</b>    | 0.00168                  |                            | 77                       | 7.2                      | 7.4                      |
|                | <b>23</b>    | 0.01551                  |                            | 78                       | 6.8                      | 7.7                      |
|                | <b>24</b>    | 0.12439                  |                            | 76                       | 6.6                      | 7.2                      |
|                | <b>25</b>    | 0.14119                  |                            | 77                       | 6.8                      | 7.2                      |
|                | <b>26</b>    | 0.13172                  |                            | 75                       | 6.6                      | 6.8                      |
|                | <b>27</b>    | 0.13683                  |                            | 74                       | 6.4                      | 7.0                      |
|                | <b>28</b>    | 0.08972                  |                            | 74                       | 6.7                      | 7.3                      |
|                | <b>29</b>    | 0.00168                  |                            | 70                       | 6.8                      | 7.7                      |
|                | <b>30</b>    | 0.04995                  |                            | 71                       | 6.7                      | 7.6                      |
|                | <b>31</b>    |                          |                            |                          |                          |                          |

|                           | Sample ID                   | 001                      |      | 100                        |                          | 001 |                          | 001 |                          |   |
|---------------------------|-----------------------------|--------------------------|------|----------------------------|--------------------------|-----|--------------------------|-----|--------------------------|---|
|                           | Description                 | PRIOR TO MENOMINEE RIVER |      | Intake Water Monitoring    | PRIOR TO MENOMINEE RIVER |     | PRIOR TO MENOMINEE RIVER |     | PRIOR TO MENOMINEE RIVER |   |
|                           | Parameter                   | 211                      |      | 280                        | 487                      |     | 374                      |     | 373                      |   |
|                           | Description                 | Flow Rate                |      | Mercury, Total Recoverable | Temperature              |     | pH (Minimum)             |     | pH (Maximum)             |   |
| Units                     | MGD                         |                          | ng/L | degF                       |                          | su  |                          | su  |                          |   |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 0.097355                 |      | 1.6                        | 77.5                     |     | 6.79                     |     | 7.38                     |   |
|                           | <b>Monthly Total</b>        |                          |      |                            |                          |     |                          |     |                          |   |
|                           | <b>Daily Max</b>            | 0.20734                  |      | 1.6                        | 94                       |     | 7.7                      |     | 8                        |   |
|                           | <b>Daily Min</b>            | 0.00168                  |      | 1.6                        | 70                       |     | 6.2                      |     | 6.6                      |   |
|                           | <b>Rolling 12 Month Avg</b> |                          |      |                            |                          |     |                          |     |                          |   |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                          |      |                            |                          |     |                          |     |                          |   |
|                           | <b>Monthly Total</b>        |                          |      |                            |                          |     |                          |     |                          |   |
|                           | <b>Daily Max</b>            |                          |      |                            |                          |     |                          |     | 11                       | 0 |
|                           | <b>Daily Min</b>            |                          |      |                            |                          |     | 4                        | 0   |                          |   |
|                           | <b>Rolling 12 Month Avg</b> |                          |      |                            |                          |     |                          |     |                          |   |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                          |      | 0.2                        |                          |     |                          |     |                          |   |
|                           | <b>LOQ</b>                  |                          |      | 0.5                        |                          |     |                          |     |                          |   |
|                           | <b>QC Exceedance</b>        | N                        |      | N                          | N                        |     | N                        |     | N                        |   |
|                           | <b>Lab Certification</b>    |                          |      | 721026460                  |                          |     |                          |     |                          |   |

|                |              |                                  |  |                          |                          |                            |
|----------------|--------------|----------------------------------|--|--------------------------|--------------------------|----------------------------|
|                | Sample Point | 001                              | 001                                    | 001                      | 001                      | 001                        |
|                | Description  | PRIOR TO MENOMINEE RIVER         | PRIOR TO MENOMINEE RIVER               | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER   |
|                | Parameter    | 379                              | 376                                    | 388                      | 231                      | 35                         |
|                | Description  | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes | Phosphorus, Total        | Hardness, Total as CaCO3 | Arsenic, Total Recoverable |
|                | Units        | minutes                          | Number                                 | mg/L                     | mg/L                     | ug/L                       |
|                | Sample Type  | CONTINUOUS                       | CONTINUOUS                             | 24 HR COMP               | 24 HR COMP               | 24 HR COMP                 |
|                | Frequency    | DAILY                            | DAILY                                  | WEEKLY                   | MONTHLY                  | MONTHLY                    |
| Sample Results | Day 1        |                                  |  |                          |                          |                            |
|                | 2            |                                  |  |                          |                          |                            |
|                | 3            |                                  |  |                          |                          |                            |
|                | 4            |                                  |  | 0.20                     |                          | 50                         |
|                | 5            |                                  |  |                          |                          |                            |
|                | 6            |                                  |  |                          |                          |                            |
|                | 7            |                                  |  |                          |                          |                            |
|                | 8            |                                  |  |                          |                          |                            |
|                | 9            |                                  |  |                          |                          |                            |
|                | 10           |                                  |  | 0.16                     | 260                      | 44                         |
|                | 11           |                                  |  |                          |                          |                            |
|                | 12           |                                  |  |                          |                          |                            |
|                | 13           |                                  |  |                          |                          |                            |
|                | 14           |                                  |  |                          |                          |                            |
|                | 15           |                                  |  |                          |                          |                            |
|                | 16           |                                  |  |                          |                          |                            |
|                | 17           |                                  |  | 0.12                     | 310                      | 39                         |
|                | 18           |                                  |  |                          |                          |                            |
|                | 19           |                                  |  |                          |                          |                            |
|                | 20           |                                  |  |                          |                          |                            |
|                | 21           |                                  |  |                          |                          |                            |
|                | 22           |                                  |  |                          |                          |                            |
|                | 23           |                                  |  |                          |                          |                            |
|                | 24           |                                  |  | 0.13                     | 270                      | 37                         |
|                | 25           |                                  |  |                          |                          |                            |
|                | 26           |                                  |  |                          |                          |                            |
|                | 27           |                                  |  |                          |                          |                            |
|                | 28           |                                  |  |                          |                          |                            |
|                | 29           |                                  |  |                          |                          |                            |
|                | 30           |                                  |  |                          |                          |                            |
|                | 31           |                                  |  |                          |                          |                            |



|                           | Sample 1 Date           | 001                                 | 001  | 001                         | 001                         | 001                           |
|---------------------------|-------------------------|-------------------------------------|--|-----------------------------|-----------------------------|-------------------------------|
|                           | Description             | PRIOR TO<br>MENOMINEE RIVER         | PRIOR TO<br>MENOMINEE RIVER                  | PRIOR TO<br>MENOMINEE RIVER | PRIOR TO<br>MENOMINEE RIVER | PRIOR TO<br>MENOMINEE RIVER   |
|                           | Parameter               | 379                                 | 376  | 388                         | 231                         | 35                            |
|                           | Description             | pH Total Exceedance<br>Time Minutes | pH Exceedances<br>Greater Than 60<br>Minutes | Phosphorus, Total           | Hardness, Total as<br>CaCO3 | Arsenic, Total<br>Recoverable |
|                           | Units                   | minutes                             | Number                                       | mg/L                        | mg/L                        | ug/L                          |
| <b>Summary Values</b>     | Monthly Avg             |                                     |  | 0.1525                      | 280                         | 42.5                          |
|                           | Monthly Total           |                                     |  |                             |                             |                               |
|                           | Daily Max               |                                     |  | 0.2                         | 310                         | 50                            |
|                           | Daily Min               |                                     |  | 0.12                        | 260                         | 37                            |
|                           | Rolling 12<br>Month Avg |                                     |  | 0.2                         |                             |                               |
| <b>Limit(s) in Effect</b> | Monthly Avg             |                                     |  |                             |                             |                               |
|                           | Monthly Total           | 446                                 | 0  |                             |                             |                               |
|                           | Daily Max               |                                     | 0  | 0                           |                             | 680                           |
|                           | Daily Min               |                                     |  |                             |                             |                               |
|                           | Rolling 12<br>Month Avg |                                     |  | 1                           | 0                           |                               |
| <b>QA/QC Information</b>  | LOD                     |                                     |  | 0.024                       |                             | 2.1                           |
|                           | LOQ                     |                                     |  | 0.05                        |                             | 5                             |
|                           | QC Exceedance           | N                                   | N  | N                           | N                           | N                             |
|                           | Lab Certification       |                                     |  | 999580010                   | 999580010                   | 999580010                     |

|                       |                     |                               |                              |                              |                               |                             |
|-----------------------|---------------------|-------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------------|
|                       | <b>Sample Point</b> | 001                           | 001                          | 001                          | 001                           | 001                         |
|                       | <b>Description</b>  | PRIOR TO<br>MENOMINEE RIVER   | PRIOR TO<br>MENOMINEE RIVER  | PRIOR TO<br>MENOMINEE RIVER  | PRIOR TO<br>MENOMINEE RIVER   | PRIOR TO<br>MENOMINEE RIVER |
|                       | <b>Parameter</b>    | 35                            | 147                          | 147                          | 87                            | 152                         |
|                       | <b>Description</b>  | Arsenic, Total<br>Recoverable | Copper, Total<br>Recoverable | Copper, Total<br>Recoverable | Cadmium, Total<br>Recoverable | Cyanide, Amenable           |
|                       | <b>Units</b>        | lbs/day                       | ug/L                         | lbs/day                      | ug/L                          | ug/L                        |
|                       | <b>Sample Type</b>  | CALCULATED                    | 24 HR COMP                   | 24 HR COMP                   | 24 HR COMP                    | 24 HR COMP                  |
|                       | <b>Frequency</b>    | MONTHLY                       | MONTHLY                      | MONTHLY                      | MONTHLY                       | MONTHLY                     |
| <b>Sample Results</b> | <b>Day 1</b>        |                               |                              |                              |                               |                             |
|                       | <b>2</b>            |                               |                              |                              |                               |                             |
|                       | <b>3</b>            |                               |                              |                              |                               |                             |
|                       | <b>4</b>            | 0.0865                        | 22                           | 0.03806                      | 0.78                          | <3.0                        |
|                       | <b>5</b>            |                               |                              |                              |                               |                             |
|                       | <b>6</b>            |                               |                              |                              |                               |                             |
|                       | <b>7</b>            |                               |                              |                              |                               |                             |
|                       | <b>8</b>            |                               |                              |                              |                               |                             |
|                       | <b>9</b>            |                               |                              |                              |                               |                             |
|                       | <b>10</b>           | 0.05016                       | 13                           | 0.01482                      | <0.49                         |                             |
|                       | <b>11</b>           |                               |                              |                              |                               |                             |
|                       | <b>12</b>           |                               |                              |                              |                               |                             |
|                       | <b>13</b>           |                               |                              |                              |                               |                             |
|                       | <b>14</b>           |                               |                              |                              |                               |                             |
|                       | <b>15</b>           |                               |                              |                              |                               |                             |
|                       | <b>16</b>           |                               |                              |                              |                               |                             |
|                       | <b>17</b>           | 0.04446                       | 14                           | 0.01596                      | <0.49                         |                             |
|                       | <b>18</b>           |                               |                              |                              |                               |                             |
|                       | <b>19</b>           |                               |                              |                              |                               |                             |
|                       | <b>20</b>           |                               |                              |                              |                               |                             |
|                       | <b>21</b>           |                               |                              |                              |                               |                             |
|                       | <b>22</b>           |                               |                              |                              |                               |                             |
|                       | <b>23</b>           |                               |                              |                              |                               |                             |
|                       | <b>24</b>           | 0.03848                       | 28                           | 0.02912                      | 1.0                           |                             |
|                       | <b>25</b>           |                               |                              |                              |                               |                             |
|                       | <b>26</b>           |                               |                              |                              |                               |                             |
|                       | <b>27</b>           |                               |                              |                              |                               |                             |
|                       | <b>28</b>           |                               |                              |                              |                               |                             |
|                       | <b>29</b>           |                               |                              |                              |                               |                             |
|                       | <b>30</b>           |                               |                              |                              |                               |                             |
|                       | <b>31</b>           |                               |                              |                              |                               |                             |

| Sample ID                 | 001                        |                          | 001                       |                          | 001                       |                          | 001                        |                          | 001               |                          |  |
|---------------------------|----------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|----------------------------|--------------------------|-------------------|--------------------------|--|
|                           | Description                | PRIOR TO MENOMINEE RIVER |                           | PRIOR TO MENOMINEE RIVER |                           | PRIOR TO MENOMINEE RIVER |                            | PRIOR TO MENOMINEE RIVER |                   | PRIOR TO MENOMINEE RIVER |  |
| Parameter                 | 35                         |                          | 147                       |                          | 147                       |                          | 87                         |                          | 152               |                          |  |
| Description               | Arsenic, Total Recoverable |                          | Copper, Total Recoverable |                          | Copper, Total Recoverable |                          | Cadmium, Total Recoverable |                          | Cyanide, Amenable |                          |  |
| Units                     | lbs/day                    |                          | ug/L                      |                          | lbs/day                   |                          | ug/L                       |                          | ug/L              |                          |  |
| <b>Summary Values</b>     | Monthly Avg                | 0.0549                   |                           | 19.25                    |                           | 0.02449                  |                            | 0.445                    |                   | 0                        |  |
|                           | Monthly Total              |                          |                           |                          |                           |                          |                            |                          |                   |                          |  |
|                           | Daily Max                  | 0.0865                   |                           | 28                       |                           | 0.03806                  |                            | 1                        |                   | <3                       |  |
|                           | Daily Min                  | 0.03848                  |                           | 13                       |                           | 0.01482                  |                            | <0.49                    |                   | <3                       |  |
|                           | Rolling 12 Month Avg       |                          |                           |                          |                           |                          |                            |                          |                   |                          |  |
| <b>Limit(s) in Effect</b> | Monthly Avg                |                          |                           |                          |                           |                          |                            |                          |                   |                          |  |
|                           | Monthly Total              |                          |                           |                          |                           |                          |                            |                          |                   |                          |  |
|                           | Daily Max                  | 12                       | 0                         | 69                       | 0                         | 0.98                     | 0                          |                          |                   |                          |  |
|                           | Daily Min                  |                          |                           |                          |                           |                          |                            |                          |                   |                          |  |
|                           | Rolling 12 Month Avg       |                          |                           |                          |                           |                          |                            |                          |                   |                          |  |
| <b>QA/QC Information</b>  | LOD                        |                          |                           | 1.7                      |                           |                          |                            | 0.49                     |                   | 3                        |  |
|                           | LOQ                        |                          |                           | 5                        |                           |                          |                            | 1                        |                   | 10                       |  |
|                           | QC Exceedance              | N                        |                           | N                        |                           | N                        |                            | N                        |                   | N                        |  |
|                           | Lab Certification          |                          |                           | 999580010                |                           |                          |                            | 999580010                |                   | 999580010                |  |

|                | Sample Point | 001                      | 001                        | 101                      | 101                      | 101                      |
|----------------|--------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|
|                | Description  | PRIOR TO MENOMINEE RIVER | PRIOR TO MENOMINEE RIVER   | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
|                | Parameter    | 112                      | 280                        | 211                      | 457                      | 342                      |
|                | Description  | Chlorine, Total Residual | Mercury, Total Recoverable | Flow Rate                | Suspended Solids, Total  | Oil & Grease (Freon)     |
|                | Units        | ug/L                     | ng/L                       | MGD                      | mg/L                     | mg/L                     |
|                | Sample Type  | GRAB                     | GRAB                       | CONTINUOUS               | 24 HR COMP               | GRAB                     |
|                | Frequency    | MONTHLY                  | MONTHLY                    | DAILY                    | DAILY                    | 2/WEEK                   |
| Sample Results | Day 1        |                          |                            |                          |                          |                          |
|                | 2            |                          |                            |                          |                          |                          |
|                | 3            |                          |                            | 0.007519                 | 7.5                      |                          |
|                | 4            |                          |                            | 0.035345                 | 1.9                      | 1.9                      |
|                | 5            |                          |                            | 0.035128                 | 1.5                      | <1.4                     |
|                | 6            |                          |                            | 0.036443                 | 4.5                      |                          |
|                | 7            |                          |                            | 0.018977                 | 3.0                      |                          |
|                | 8            |                          |                            |                          |                          |                          |
|                | 9            |                          |                            |                          |                          |                          |
|                | 10           |                          |                            | 0.030579                 | 11.0                     | 1.9                      |
|                | 11           |                          |                            | 0.033210                 | 1.9                      | 2.1                      |
|                | 12           |                          |                            | 0.029132                 | 1.9                      |                          |
|                | 13           |                          |                            | 0.027799                 | 5.5                      |                          |
|                | 14           |                          |                            | 0.010973                 | 14.0                     |                          |
|                | 15           |                          |                            | 0.010951                 | 9.5                      |                          |
|                | 16           |                          |                            |                          |                          |                          |
|                | 17           |                          |                            | 0.025466                 | 2.5                      | 1.9                      |
|                | 18           |                          | 3.4                        | 0.020901                 | 3.0                      | 1.8                      |
|                | 19           |                          |                            | 0.023137                 | 2.0                      |                          |
|                | 20           |                          |                            | 0.023966                 | 2.5                      |                          |
|                | 21           |                          |                            | 0.007787                 | 4.0                      |                          |
|                | 22           |                          |                            |                          |                          |                          |
|                | 23           |                          |                            |                          |                          |                          |
|                | 24           | 20                       |                            | 0.023177                 | 1.9                      | 1.5                      |
|                | 25           |                          |                            | 0.030445                 | 1.9                      | 1.7                      |
|                | 26           |                          |                            | 0.033362                 | 3.0                      |                          |
|                | 27           |                          |                            | 0.021741                 | 2.0                      |                          |
|                | 28           |                          |                            | 0.006467                 | 4.0                      |                          |
|                | 29           |                          |                            |                          |                          |                          |
|                | 30           |                          |                            |                          |                          |                          |
|                | 31           |                          |                            |                          |                          |                          |

| Sample Point              | 001                      |                          | 001                        |                          | 101       |                          | 101                     |                          | 101                  |                          |  |
|---------------------------|--------------------------|--------------------------|----------------------------|--------------------------|-----------|--------------------------|-------------------------|--------------------------|----------------------|--------------------------|--|
|                           | Description              | PRIOR TO MENOMINEE RIVER |                            | PRIOR TO MENOMINEE RIVER |           | Metal Finishing Effluent |                         | Metal Finishing Effluent |                      | Metal Finishing Effluent |  |
| Parameter                 | 112                      |                          | 280                        |                          | 211       |                          | 457                     |                          | 342                  |                          |  |
| Description               | Chlorine, Total Residual |                          | Mercury, Total Recoverable |                          | Flow Rate |                          | Suspended Solids, Total |                          | Oil & Grease (Freon) |                          |  |
| Units                     | ug/L                     |                          | ng/L                       |                          | MGD       |                          | mg/L                    |                          | mg/L                 |                          |  |
| <b>Summary Values</b>     | Monthly Avg              | 20                       |                            | 3.4                      |           | 0.023452619              |                         | 4.238095238              |                      | 1.6                      |  |
|                           | Monthly Total            |                          |                            |                          |           |                          |                         |                          |                      |                          |  |
|                           | Daily Max                | 20                       |                            | 3.4                      |           | 0.036443                 |                         | 14                       |                      | 2.1                      |  |
|                           | Daily Min                | 20                       |                            | 3.4                      |           | 0.006467                 |                         | 1.5                      |                      | <1.4                     |  |
|                           | Rolling 12 Month Avg     |                          |                            |                          |           |                          |                         |                          |                      |                          |  |
| <b>Limit(s) in Effect</b> | Monthly Avg              |                          |                            |                          |           |                          | 31                      | 0                        | 26                   | 0                        |  |
|                           | Monthly Total            |                          |                            |                          |           |                          |                         |                          |                      |                          |  |
|                           | Daily Max                |                          |                            |                          |           |                          | 60                      | 0                        | 52                   | 0                        |  |
|                           | Daily Min                |                          |                            |                          |           |                          |                         |                          |                      |                          |  |
|                           | Rolling 12 Month Avg     |                          |                            |                          |           |                          |                         |                          |                      |                          |  |
| <b>QA/QC Information</b>  | LOD                      | 30                       |                            | 0.2                      |           |                          |                         |                          |                      | 1.4                      |  |
|                           | LOQ                      | 100                      |                            | 0.5                      |           |                          |                         |                          |                      | 5.4                      |  |
|                           | QC Exceedance            | N                        |                            | N                        |           | N                        |                         | N                        |                      | N                        |  |
|                           | Lab Certification        |                          |                            | 721026460                |           |                          |                         | 999580010                |                      | 999580010                |  |

|                       |                     |                            |                             |                           |                          |                          |
|-----------------------|---------------------|----------------------------|-----------------------------|---------------------------|--------------------------|--------------------------|
|                       | <b>Sample Point</b> | 101                        | 101                         | 101                       | 101                      | 101                      |
|                       | <b>Description</b>  | Metal Finishing Effluent   | Metal Finishing Effluent    | Metal Finishing Effluent  | Metal Finishing Effluent | Metal Finishing Effluent |
|                       | <b>Parameter</b>    | 87                         | 133                         | 315                       | 553                      | 155                      |
|                       | <b>Description</b>  | Cadmium, Total Recoverable | Chromium, Total Recoverable | Nickel, Total Recoverable | Zinc, Total Recoverable  | Cyanide, Total           |
|                       | <b>Units</b>        | ug/L                       | ug/L                        | ug/L                      | ug/L                     | ug/L                     |
|                       | <b>Sample Type</b>  | 24 HR COMP                 | 24 HR COMP                  | 24 HR COMP                | 24 HR COMP               | GRAB                     |
|                       | <b>Frequency</b>    | 2/WEEK                     | MONTHLY                     | 2/WEEK                    | 2/WEEK                   | MONTHLY                  |
| <b>Sample Results</b> | <b>Day 1</b>        |                            |                             |                           |                          |                          |
|                       | <b>2</b>            |                            |                             |                           |                          |                          |
|                       | <b>3</b>            |                            |                             |                           |                          |                          |
|                       | <b>4</b>            | 0.93                       | 6.8                         | 1300                      | 330                      | <3.0                     |
|                       | <b>5</b>            | 0.74                       | 36                          | 1700                      | 330                      |                          |
|                       | <b>6</b>            |                            |                             |                           |                          |                          |
|                       | <b>7</b>            |                            |                             |                           |                          |                          |
|                       | <b>8</b>            |                            |                             |                           |                          |                          |
|                       | <b>9</b>            |                            |                             |                           |                          |                          |
|                       | <b>10</b>           | <0.49                      | 3.1                         | 400                       | 270                      |                          |
|                       | <b>11</b>           | <0.49                      | <2.2                        | 170                       | 170                      |                          |
|                       | <b>12</b>           |                            |                             |                           |                          |                          |
|                       | <b>13</b>           |                            |                             |                           |                          |                          |
|                       | <b>14</b>           |                            |                             |                           |                          |                          |
|                       | <b>15</b>           |                            |                             |                           |                          |                          |
|                       | <b>16</b>           |                            |                             |                           |                          |                          |
|                       | <b>17</b>           | 0.51                       | 4.2                         | 260                       | 480                      |                          |
|                       | <b>18</b>           | <0.49                      | <2.2                        | 100                       | 320                      |                          |
|                       | <b>19</b>           |                            |                             |                           |                          |                          |
|                       | <b>20</b>           |                            |                             |                           |                          |                          |
|                       | <b>21</b>           |                            |                             |                           |                          |                          |
|                       | <b>22</b>           |                            |                             |                           |                          |                          |
|                       | <b>23</b>           |                            |                             |                           |                          |                          |
|                       | <b>24</b>           | 2.8                        | 5.0                         | 380                       | 320                      |                          |
|                       | <b>25</b>           | 0.87                       | <2.2                        | 210                       | 140                      |                          |
|                       | <b>26</b>           |                            |                             |                           |                          |                          |
|                       | <b>27</b>           |                            |                             |                           |                          |                          |
|                       | <b>28</b>           |                            |                             |                           |                          |                          |
|                       | <b>29</b>           |                            |                             |                           |                          |                          |
|                       | <b>30</b>           |                            |                             |                           |                          |                          |
|                       | <b>31</b>           |                            |                             |                           |                          |                          |

|                           | Description                 | Metal Finishing Effluent   |   | Metal Finishing Effluent    |   | Metal Finishing Effluent  |   | Metal Finishing Effluent |   | Metal Finishing Effluent |   |
|---------------------------|-----------------------------|----------------------------|---|-----------------------------|---|---------------------------|---|--------------------------|---|--------------------------|---|
|                           | Parameter                   | 87                         |   | 133                         |   | 315                       |   | 553                      |   | 155                      |   |
|                           | Description                 | Cadmium, Total Recoverable |   | Chromium, Total Recoverable |   | Nickel, Total Recoverable |   | Zinc, Total Recoverable  |   | Cyanide, Total           |   |
|                           | Units                       | ug/L                       |   | ug/L                        |   | ug/L                      |   | ug/L                     |   | ug/L                     |   |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 0.73125                    |   | 6.8875                      |   | 565                       |   | 295                      |   | 0                        |   |
|                           | <b>Monthly Total</b>        |                            |   |                             |   |                           |   |                          |   |                          |   |
|                           | <b>Daily Max</b>            | 2.8                        |   | 36                          |   | 1700                      |   | 480                      |   | <3                       |   |
|                           | <b>Daily Min</b>            | <0.49                      |   | <2.2                        |   | 100                       |   | 140                      |   | <3                       |   |
|                           | <b>Rolling 12 Month Avg</b> |                            |   |                             |   |                           |   |                          |   |                          |   |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          | 260                        | 0 | 1710                        | 0 | 2380                      | 0 | 1480                     | 0 | 650                      | 0 |
|                           | <b>Monthly Total</b>        |                            |   |                             |   |                           |   |                          |   |                          |   |
|                           | <b>Daily Max</b>            | 690                        | 0 | 2770                        | 0 | 3980                      | 0 | 2610                     | 0 | 1200                     | 0 |
|                           | <b>Daily Min</b>            |                            |   |                             |   |                           |   |                          |   |                          |   |
|                           | <b>Rolling 12 Month Avg</b> |                            |   |                             |   |                           |   |                          |   |                          |   |
| <b>QA/QC Information</b>  | <b>LOD</b>                  | 0.49                       |   | 2.2                         |   | 1.5                       |   | 3.6                      |   | 3                        |   |
|                           | <b>LOQ</b>                  | 1                          |   | 5                           |   | 5                         |   | 10                       |   | 10                       |   |
|                           | <b>QC Exceedance</b>        | N                          |   | N                           |   | N                         |   | N                        |   | N                        |   |
|                           | <b>Lab Certification</b>    | 999580010                  |   | 999580010                   |   | 999580010                 |   | 999580010                |   | 999580010                |   |

|                |              |                           |                          |                           |                          |                          |
|----------------|--------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|
|                | 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                       | 264                      | 430                       | 374                      | 373                      |
|                | Description  | Copper, Total Recoverable | Lead, Total Recoverable  | Silver, Total Recoverable | pH (Minimum)             | pH (Maximum)             |
|                | Units        | ug/L                      | ug/L                     | ug/L                      | su                       | su                       |
|                | Sample Type  | 24 HR COMP                | 24 HR COMP               | 24 HR COMP                | CONTINUOUS               | CONTINUOUS               |
|                | Frequency    | 2WEEK                     | MONTHLY                  | MONTHLY                   | DAILY                    | DAILY                    |
| Sample Results | Day 1        |                           |                          |                           |                          |                          |
|                | 2            |                           |                          |                           |                          |                          |
|                | 3            |                           |                          |                           | 7.5                      | 7.5                      |
|                | 4            | 26                        | <1.3                     | <1.1                      | 7.3                      | 7.8                      |
|                | 5            | 28                        | <1.3                     | <1.1                      | 7.7                      | 7.8                      |
|                | 6            |                           |                          |                           | 7.2                      | 7.8                      |
|                | 7            |                           |                          |                           | 7.1                      | 7.4                      |
|                | 8            |                           |                          |                           |                          |                          |
|                | 9            |                           |                          |                           |                          |                          |
|                | 10           | 17                        | <1.3                     | <1.1                      | 7.7                      | 8.1                      |
|                | 11           | 12                        | <1.3                     | <1.1                      | 7.5                      | 7.8                      |
|                | 12           |                           |                          |                           | 7.4                      | 7.5                      |
|                | 13           |                           |                          |                           | 7.0                      | 7.8                      |
|                | 14           |                           |                          |                           | 7.0                      | 8.0                      |
|                | 15           |                           |                          |                           | 7.7                      | 7.9                      |
|                | 16           |                           |                          |                           |                          |                          |
|                | 17           | 19                        | 1.9                      | <1.1                      | 7.4                      | 7.6                      |
|                | 18           | 5.3                       | 3.1                      | <1.1                      | 6.9                      | 7.8                      |
|                | 19           |                           |                          |                           | 7.3                      | 7.7                      |
|                | 20           |                           |                          |                           | 7.5                      | 7.9                      |
|                | 21           |                           |                          |                           | 7.1                      | 7.5                      |
|                | 22           |                           |                          |                           |                          |                          |
|                | 23           |                           |                          |                           |                          |                          |
|                | 24           | 39                        | <1.3                     | <1.1                      | 7.6                      | 7.9                      |
|                | 25           | 14                        | <1.3                     | <1.1                      | 7.6                      | 7.8                      |
|                | 26           |                           |                          |                           | 7.3                      | 7.7                      |
|                | 27           |                           |                          |                           | 7.2                      | 7.5                      |
|                | 28           |                           |                          |                           | 7.2                      | 7.4                      |
|                | 29           |                           |                          |                           |                          |                          |
|                | 30           |                           |                          |                           |                          |                          |
|                | 31           |                           |                          |                           |                          |                          |



|                           | Sample Type                 | 101                       |      | 101                      |      | 101                       |    | 101                      |    | 101                      |   |
|---------------------------|-----------------------------|---------------------------|------|--------------------------|------|---------------------------|----|--------------------------|----|--------------------------|---|
|                           | Description                 | Metal Finishing Effluent  |      | Metal Finishing Effluent |      | Metal Finishing Effluent  |    | Metal Finishing Effluent |    | Metal Finishing Effluent |   |
|                           | Parameter                   | 147                       |      | 264                      |      | 430                       |    | 374                      |    | 373                      |   |
|                           | Description                 | Copper, Total Recoverable |      | Lead, Total Recoverable  |      | Silver, Total Recoverable |    | pH (Minimum)             |    | pH (Maximum)             |   |
| Units                     | ug/L                        |                           | ug/L |                          | ug/L |                           | su |                          | su |                          |   |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          | 20.0375                   |      | 0.625                    |      | 0                         |    | 7.342857143              |    | 7.723809524              |   |
|                           | <b>Monthly Total</b>        |                           |      |                          |      |                           |    |                          |    |                          |   |
|                           | <b>Daily Max</b>            | 39                        |      | 3.1                      |      | <1.1                      |    | 7.7                      |    | 8.1                      |   |
|                           | <b>Daily Min</b>            | 5.3                       |      | <1.3                     |      | <1.1                      |    | 6.9                      |    | 7.4                      |   |
|                           | <b>Rolling 12 Month Avg</b> |                           |      |                          |      |                           |    |                          |    |                          |   |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          | 2070                      | 0    | 430                      | 0    | 240                       | 0  |                          |    |                          |   |
|                           | <b>Monthly Total</b>        |                           |      |                          |      |                           |    |                          |    |                          |   |
|                           | <b>Daily Max</b>            | 3380                      | 0    | 690                      | 0    | 430                       | 0  |                          |    | 11                       | 0 |
|                           | <b>Daily Min</b>            |                           |      |                          |      |                           |    | 4                        | 0  |                          |   |
|                           | <b>Rolling 12 Month Avg</b> |                           |      |                          |      |                           |    |                          |    |                          |   |
| <b>QA/QC Information</b>  | <b>LOD</b>                  | 1.7                       |      | 1.3                      |      | 1.1                       |    |                          |    |                          |   |
|                           | <b>LOQ</b>                  | 5                         |      | 2.5                      |      | 2.5                       |    |                          |    |                          |   |
|                           | <b>QC Exceedance</b>        | N                         |      | N                        |      | N                         |    | N                        |    | N                        |   |
|                           | <b>Lab Certification</b>    | 999580010                 |      | 999580010                |      | 999580010                 |    |                          |    |                          |   |

|                       |                     |                                  |  |                          |                          |                          |
|-----------------------|---------------------|----------------------------------|--|--------------------------|--------------------------|--------------------------|
|                       | <b>Sample Point</b> | 101                              | 101                                    | 101                      | 101                      | 101                      |
|                       | <b>Description</b>  | Metal Finishing Effluent         | Metal Finishing Effluent               | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
|                       | <b>Parameter</b>    | 379                              | 376                                    | 507                      | 40                       | 490                      |
|                       | <b>Description</b>  | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes | Total Toxic Organics     | Benzene                  | Tetrachloroethylene      |
|                       | <b>Units</b>        | minutes                          | Number                                 | ug/L                     | ug/L                     | ug/L                     |
|                       | <b>Sample Type</b>  | CALCULATED                       | CALCULATED                             | 24 HR COMP               | 24 HR COMP               | 24 HR COMP               |
|                       | <b>Frequency</b>    | DAILY                            | DAILY                                  | MONTHLY                  | MONTHLY                  | MONTHLY                  |
| <b>Sample Results</b> | <b>Day 1</b>        |                                  |  |                          |                          |                          |
|                       | 2                   |                                  |  |                          |                          |                          |
|                       | 3                   |                                  |  |                          |                          |                          |
|                       | 4                   |                                  |  |                          |                          |                          |
|                       | 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                  |                                  |  |                          |                          |                          |

|                           | Description                 | Metal Finishing Effluent         |   | Metal Finishing Effluent               |   | Metal Finishing Effluent |  | Metal Finishing Effluent |  | Metal Finishing Effluent |  |
|---------------------------|-----------------------------|----------------------------------|---|--|---|--------------------------|--|--------------------------|--|--------------------------|--|
|                           |                             | 379                              |   | 376                                    |   | 507                      |  | 40                       |  | 490                      |  |
|                           |                             | pH Total Exceedance Time Minutes |   | pH Exceedances Greater Than 60 Minutes |   | Total Toxic Organics     |  | Benzene                  |  | Tetrachloroethylene      |  |
|                           |                             | minutes                          |   | Number                                 |   | ug/L                     |  | ug/L                     |  | ug/L                     |  |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Monthly Total</b>        |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Daily Max</b>            |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Daily Min</b>            |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Rolling 12 Month Avg</b> |                                  |   |  |   |                          |  |                          |  |                          |  |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Monthly Total</b>        | 446                              | 0 | 0                                      | 0 |                          |  |                          |  |                          |  |
|                           | <b>Daily Max</b>            |                                  |   |  |   | 2130                     |  |                          |  |                          |  |
|                           | <b>Daily Min</b>            |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>Rolling 12 Month Avg</b> |                                  |   |  |   |                          |  |                          |  |                          |  |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>LOQ</b>                  |                                  |   |  |   |                          |  |                          |  |                          |  |
|                           | <b>QC Exceedance</b>        | N                                |   | N                                      |   | N                        |  | N                        |  | N                        |  |
|                           | <b>Lab Certification</b>    |                                  |   |  |   |                          |  |                          |  |                          |  |

|                       |                     |                          |                          |                          |                          |                          |
|-----------------------|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                       | <b>Sample Point</b> | 101                      | 101                      | 101                      | 101                      | 101                      |
|                       | <b>Description</b>  | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
|                       | <b>Parameter</b>    | 500                      | 561                      | 200                      | 508                      | 285                      |
|                       | <b>Description</b>  | Toluene                  | 1,1,1-Trichloro- ethane  | Ethylbenzene             | Trichloro- ethylene      | Methylene chloride       |
|                       | <b>Units</b>        | ug/L                     | ug/L                     | ug/L                     | ug/L                     | ug/L                     |
|                       | <b>Sample Type</b>  | 24 HR COMP               | 24 HR COMP               | 24 HR COMP               | 24 HR COMP               | 24 HR COMP               |
|                       | <b>Frequency</b>    | MONTHLY                  | MONTHLY                  | MONTHLY                  | MONTHLY                  | MONTHLY                  |
| <b>Sample Results</b> | <b>Day 1</b>        |                          |                          |                          |                          |                          |
|                       | <b>2</b>            |                          |                          |                          |                          |                          |
|                       | <b>3</b>            |                          |                          |                          |                          |                          |
|                       | <b>4</b>            |                          |                          |                          |                          |                          |
|                       | <b>5</b>            |                          |                          |                          |                          |                          |
|                       | <b>6</b>            |                          |                          |                          |                          |                          |
|                       | <b>7</b>            |                          |                          |                          |                          |                          |
|                       | <b>8</b>            |                          |                          |                          |                          |                          |
|                       | <b>9</b>            |                          |                          |                          |                          |                          |
|                       | <b>10</b>           |                          |                          |                          |                          |                          |
|                       | <b>11</b>           |                          |                          |                          |                          |                          |
|                       | <b>12</b>           |                          |                          |                          |                          |                          |
|                       | <b>13</b>           |                          |                          |                          |                          |                          |
|                       | <b>14</b>           |                          |                          |                          |                          |                          |
|                       | <b>15</b>           |                          |                          |                          |                          |                          |
|                       | <b>16</b>           |                          |                          |                          |                          |                          |
|                       | <b>17</b>           |                          |                          |                          |                          |                          |
|                       | <b>18</b>           |                          |                          |                          |                          |                          |
|                       | <b>19</b>           |                          |                          |                          |                          |                          |
|                       | <b>20</b>           |                          |                          |                          |                          |                          |
|                       | <b>21</b>           |                          |                          |                          |                          |                          |
|                       | <b>22</b>           |                          |                          |                          |                          |                          |
|                       | <b>23</b>           |                          |                          |                          |                          |                          |
|                       | <b>24</b>           |                          |                          |                          |                          |                          |
|                       | <b>25</b>           |                          |                          |                          |                          |                          |
|                       | <b>26</b>           |                          |                          |                          |                          |                          |
|                       | <b>27</b>           |                          |                          |                          |                          |                          |
|                       | <b>28</b>           |                          |                          |                          |                          |                          |
|                       | <b>29</b>           |                          |                          |                          |                          |                          |
|                       | <b>30</b>           |                          |                          |                          |                          |                          |
|                       | <b>31</b>           |                          |                          |                          |                          |                          |

|                           | Sample Type                 | TS1                      | TS1                      | TS1                      | TS1                      | TS1                      |
|---------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                           | Description                 | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent | Metal Finishing Effluent |
|                           | Parameter                   | 500                      | 561                      | 200                      | 508                      | 285                      |
|                           | Description                 | Toluene                  | 1,1,1-Trichloro- ethane  | Ethylbenzene             | Trichloro- ethylene      | Methylene chloride       |
| Units                     | ug/L                        | ug/L                     | ug/L                     | ug/L                     | ug/L                     | ug/L                     |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          |                          |                          |                          |                          |                          |
|                           | <b>Monthly Total</b>        |                          |                          |                          |                          |                          |
|                           | <b>Daily Max</b>            |                          |                          |                          |                          |                          |
|                           | <b>Daily Min</b>            |                          |                          |                          |                          |                          |
|                           | <b>Rolling 12 Month Avg</b> |                          |                          |                          |                          |                          |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                          |                          |                          |                          |                          |
|                           | <b>Monthly Total</b>        |                          |                          |                          |                          |                          |
|                           | <b>Daily Max</b>            |                          |                          |                          |                          |                          |
|                           | <b>Daily Min</b>            |                          |                          |                          |                          |                          |
|                           | <b>Rolling 12 Month Avg</b> |                          |                          |                          |                          |                          |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                          |                          |                          |                          |                          |
|                           | <b>LOQ</b>                  |                          |                          |                          |                          |                          |
|                           | <b>QC Exceedance</b>        |                          |                          |                          |                          |                          |
|                           | <b>Lab Certification</b>    |                          |                          |                          |                          |                          |

|                       |                     |  |                           |                            |                           |                             |
|-----------------------|---------------------|--|---------------------------|----------------------------|---------------------------|-----------------------------|
|                       | <b>Sample Point</b> | 101                                      | 106                       | 106                        | 106                       | 107                         |
|                       | <b>Description</b>  | Metal Finishing Effluent                 | Future remedial action ww | Future remedial action ww  | Future remedial action ww | Mercury Field Blank Results |
|                       | <b>Parameter</b>    | 167                                      | 211                       | 35                         | 457                       | 280                         |
|                       | <b>Description</b>  | Di-n-butyl phthalate (dibutyl phthalate) | Flow Rate                 | Arsenic, Total Recoverable | Suspended Solids, Total   | Mercury, Total Recoverable  |
|                       | <b>Units</b>        | ug/L                                     | gpd                       | ug/L                       | mg/L                      | ng/L                        |
|                       | <b>Sample Type</b>  | 24 HR COMP                               | CONTINUOUS                | 24 HR COMP                 | 24 HR COMP                | GRAB                        |
|                       | <b>Frequency</b>    | MONTHLY                                  | DAILY                     | WEEKLY                     | WEEKLY                    | MONTHLY                     |
| <b>Sample Results</b> | <b>Day 1</b>        |  |                           |                            |                           |                             |
|                       | 2                   |  |                           |                            |                           |                             |
|                       | 3                   |  |                           |                            |                           |                             |
|                       | 4                   |  |                           |                            |                           |                             |
|                       | 5                   |  |                           |                            |                           |                             |
|                       | 6                   |  |                           |                            |                           |                             |
|                       | 7                   |  |                           |                            |                           |                             |
|                       | 8                   |  |                           |                            |                           |                             |
|                       | 9                   |  |                           |                            |                           |                             |
|                       | 10                  |  |                           |                            |                           |                             |
|                       | 11                  |  |                           |                            |                           |                             |
|                       | 12                  |  |                           |                            |                           |                             |
|                       | 13                  |  |                           |                            |                           |                             |
|                       | 14                  |  |                           |                            |                           |                             |
|                       | 15                  |  |                           |                            |                           |                             |
|                       | 16                  |  |                           |                            |                           |                             |
|                       | 17                  |  |                           |                            |                           |                             |
|                       | 18                  |  |                           |                            |                           | <0.20                       |
|                       | 19                  |  |                           |                            |                           |                             |
|                       | 20                  |  |                           |                            |                           |                             |
|                       | 21                  |  |                           |                            |                           |                             |
|                       | 22                  |  |                           |                            |                           |                             |
|                       | 23                  |  |                           |                            |                           |                             |
|                       | 24                  |  |                           |                            |                           |                             |
|                       | 25                  |  |                           |                            |                           |                             |
|                       | 26                  |  |                           |                            |                           |                             |
|                       | 27                  |  |                           |                            |                           |                             |
|                       | 28                  |  |                           |                            |                           |                             |
|                       | 29                  |  |                           |                            |                           |                             |
|                       | 30                  |  |                           |                            |                           |                             |
|                       | 31                  |  |                           |                            |                           |                             |

|                           | Description                 | Metal Finishing Effluent                 | Future remedial action ww | Future remedial action ww  | Future remedial action ww | Mercury Field Blank Results |
|---------------------------|-----------------------------|--|---------------------------|----------------------------|---------------------------|-----------------------------|
|                           | Parameter                   | 167                                      | 211                       | 35                         | 457                       | 280                         |
|                           | Description                 | Di-n-butyl phthalate (dibutyl phthalate) | Flow Rate                 | Arsenic, Total Recoverable | Suspended Solids, Total   | Mercury, Total Recoverable  |
|                           | Units                       | ug/L                                     | gpd                       | ug/L                       | mg/L                      | ng/L                        |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          |  |                           |                            |                           | 0                           |
|                           | <b>Monthly Total</b>        |  |                           |                            |                           |                             |
|                           | <b>Daily Max</b>            |  |                           |                            |                           | <0.2                        |
|                           | <b>Daily Min</b>            |  |                           |                            |                           | <0.2                        |
|                           | <b>Rolling 12 Month Avg</b> |  |                           |                            |                           |                             |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |  |                           |                            |                           |                             |
|                           | <b>Monthly Total</b>        |  |                           |                            |                           |                             |
|                           | <b>Daily Max</b>            |  |                           |                            |                           |                             |
|                           | <b>Daily Min</b>            |  |                           |                            |                           |                             |
|                           | <b>Rolling 12 Month Avg</b> |  |                           |                            |                           |                             |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |  |                           |                            |                           | 0.2                         |
|                           | <b>LOQ</b>                  |  |                           |                            |                           | 0.5                         |
|                           | <b>QC Exceedance</b>        | N  | N                         | N                          | N                         | N                           |
|                           | <b>Lab Certification</b>    |  |                           |                            |                           | 721026460                   |

|                       |                     |                               |                               |                               |                               |                               |
|-----------------------|---------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
|                       | <b>Sample Point</b> | 003                           | 003                           | 003                           | 003                           | 003                           |
|                       | <b>Description</b>  | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg |
|                       | <b>Parameter</b>    | 211                           | 457                           | 35                            | 374                           | 373                           |
|                       | <b>Description</b>  | Flow Rate                     | Suspended Solids, Total       | Arsenic, Total Recoverable    | pH (Minimum)                  | pH (Maximum)                  |
|                       | <b>Units</b>        | MGD                           | mg/L                          | ug/L                          | su                            | su                            |
|                       | <b>Sample Type</b>  | CONTINUOUS                    | 24 HR COMP                    | 24 HR COMP                    | CONTINUOUS                    | CONTINUOUS                    |
|                       | <b>Frequency</b>    | DAILY                         | WEEKLY                        | WEEKLY                        | DAILY                         | DAILY                         |
| <b>Sample Results</b> | <b>Day 1</b>        |                               |                               |                               |                               |                               |
|                       | 2                   |                               |                               |                               |                               |                               |
|                       | 3                   |                               |                               |                               |                               |                               |
|                       | 4                   |                               |                               |                               |                               |                               |
|                       | 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                | 000                           | 000                           | 000                           | 000                           | 000                           |
|---------------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
|                           | Description                 | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg | Future remedial action dischg |
|                           | Parameter                   | 211                           | 457                           | 35                            | 374                           | 373                           |
|                           | Description                 | Flow Rate                     | Suspended Solids, Total       | Arsenic, Total Recoverable    | pH (Minimum)                  | pH (Maximum)                  |
|                           | Units                       | MGD                           | mg/L                          | ug/L                          | su                            | su                            |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          |                               |                               |                               |                               |                               |
|                           | <b>Monthly Total</b>        |                               |                               |                               |                               |                               |
|                           | <b>Daily Max</b>            |                               |                               |                               |                               |                               |
|                           | <b>Daily Min</b>            |                               |                               |                               |                               |                               |
|                           | <b>Rolling 12 Month Avg</b> |                               |                               |                               |                               |                               |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                               |                               |                               |                               |                               |
|                           | <b>Monthly Total</b>        |                               |                               |                               |                               |                               |
|                           | <b>Daily Max</b>            |                               |                               | 680                           |                               | 11                            |
|                           | <b>Daily Min</b>            |                               |                               |                               | 4                             |                               |
|                           | <b>Rolling 12 Month Avg</b> |                               |                               |                               |                               |                               |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                               |                               |                               |                               |                               |
|                           | <b>LOQ</b>                  |                               |                               |                               |                               |                               |
|                           | <b>QC Exceedance</b>        | N                             | N                             | N                             | N                             | N                             |
|                           | <b>Lab Certification</b>    |                               |                               |                               |                               |                               |

|                       |                     |                                  |  |
|-----------------------|---------------------|----------------------------------|--|
|                       | <b>Sample Point</b> | 003                              | 003                                    |
|                       | <b>Description</b>  | Future remedial action dischg    | Future remedial action dischg          |
|                       | <b>Parameter</b>    | 379                              | 376                                    |
|                       | <b>Description</b>  | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes |
|                       | <b>Units</b>        | minutes                          | Number                                 |
|                       | <b>Sample Type</b>  | CONTINUOUS                       | CONTINUOUS                             |
|                       | <b>Frequency</b>    | DAILY                            | DAILY                                  |
| <b>Sample Results</b> | <b>Day 1</b>        |                                  |  |
|                       | <b>2</b>            |                                  |  |
|                       | <b>3</b>            |                                  |  |
|                       | <b>4</b>            |                                  |  |
|                       | <b>5</b>            |                                  |  |
|                       | <b>6</b>            |                                  |  |
|                       | <b>7</b>            |                                  |  |
|                       | <b>8</b>            |                                  |  |
|                       | <b>9</b>            |                                  |  |
|                       | <b>10</b>           |                                  |  |
|                       | <b>11</b>           |                                  |  |
|                       | <b>12</b>           |                                  |  |
|                       | <b>13</b>           |                                  |  |
|                       | <b>14</b>           |                                  |  |
|                       | <b>15</b>           |                                  |  |
|                       | <b>16</b>           |                                  |  |
|                       | <b>17</b>           |                                  |  |
|                       | <b>18</b>           |                                  |  |
|                       | <b>19</b>           |                                  |  |
|                       | <b>20</b>           |                                  |  |
|                       | <b>21</b>           |                                  |  |
|                       | <b>22</b>           |                                  |  |
|                       | <b>23</b>           |                                  |  |
|                       | <b>24</b>           |                                  |  |
|                       | <b>25</b>           |                                  |  |
|                       | <b>26</b>           |                                  |  |
|                       | <b>27</b>           |                                  |  |
|                       | <b>28</b>           |                                  |  |
|                       | <b>29</b>           |                                  |  |
|                       | <b>30</b>           |                                  |  |
|                       | <b>31</b>           |                                  |  |

|                           | Sample Type                 | 300                              | 300                                    |
|---------------------------|-----------------------------|----------------------------------|--|
|                           | Description                 | Future remedial action dischg    | Future remedial action dischg          |
|                           | Parameter                   | 379                              | 376                                    |
|                           | Description                 | pH Total Exceedance Time Minutes | pH Exceedances Greater Than 60 Minutes |
|                           | Units                       | minutes                          | Number                                 |
| <b>Summary Values</b>     | <b>Monthly Avg</b>          |                                  |  |
|                           | <b>Monthly Total</b>        |                                  |  |
|                           | <b>Daily Max</b>            |                                  |  |
|                           | <b>Daily Min</b>            |                                  |  |
|                           | <b>Rolling 12 Month Avg</b> |                                  |  |
| <b>Limit(s) in Effect</b> | <b>Monthly Avg</b>          |                                  |  |
|                           | <b>Monthly Total</b>        | 446                              |  |
|                           | <b>Daily Max</b>            |                                  | 0                                      |
|                           | <b>Daily Min</b>            |                                  |  |
|                           | <b>Rolling 12 Month Avg</b> |                                  |  |
| <b>QA/QC Information</b>  | <b>LOD</b>                  |                                  |  |
|                           | <b>LOQ</b>                  |                                  |  |
|                           | <b>QC Exceedance</b>        | N                                | N                                      |
|                           | <b>Lab Certification</b>    |                                  |  |

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

1. Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for TTO I certify that to the best of my knowledge and belief no dumping of concentrated toxic organics into the wastewaters has
2. occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the solvent management plan submitted to the department.

General Remarks

The Groundwater system was not running for the whole month of September so, there will be no results for any sampling at OF003.

Laboratory Quality Control Comments

**Attachment 3**  
**BWGMPU Sampling Results**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-151650-1  
Client Project/Site: Barrier Wall Monitoring

For:  
Tyco Fire Protection Products  
1 Stanton St  
Marinette, Wisconsin 54143

Attn: Mr. Ryan Suennen



Authorized for release by:  
10/1/2018 12:35:38 PM

Richard Wright, Senior Project Manager  
(708)534-5200  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14



# Table of Contents

|                                 |    |
|---------------------------------|----|
| Cover Page . . . . .            | 1  |
| Table of Contents . . . . .     | 2  |
| Case Narrative . . . . .        | 3  |
| Detection Summary . . . . .     | 4  |
| Method Summary . . . . .        | 8  |
| Sample Summary . . . . .        | 9  |
| Client Sample Results . . . . . | 10 |
| Definitions . . . . .           | 15 |
| QC Association . . . . .        | 16 |
| QC Sample Results . . . . .     | 18 |
| Chronicle . . . . .             | 20 |
| Certification Summary . . . . . | 26 |
| Chain of Custody . . . . .      | 27 |
| Receipt Checklists . . . . .    | 30 |

# Case Narrative

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

**Job ID: 500-151650-1**

**Laboratory: TestAmerica Chicago**

## Narrative

### Job Narrative 500-151650-1

#### Receipt

The samples were received on 9/19/2018 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

#### Metals

Method(s) 200.7 Rev 4.4: The continuing calibration verification (CCV) at line 80 in AD batch 500-451778 recovered above the upper control limit for Arsenic. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: MW100M (500-151650-22).

Method(s) 200.7 Rev 4.4: The continuing calibration verification (CCV) at line 76 in AD batch 452196 was outside the control limits for Arsenic. This CCV bracketed the method blank (MB) and laboratory control sample (LCS). The MB and LCS were both within the method control limits. The associated samples MW021M (500-151650-5), MW101S (500-151650-6), MW101M (500-151650-7), MW047S (500-151650-8), MW047M (500-151650-9), MW047D (500-151650-10), MW102S (500-151650-11), MW102S/D (500-151650-12), MW102M (500-151650-13), MW102D (500-151650-14), MW103S (500-151650-15), MW103M (500-151650-16), MW118S (500-151650-17), MW118M (500-151650-18), FB#1 (500-151650-19) and FB#2 (500-151650-20) were bracketed with continuing calibration verifications that were within control limits, therefore the data has been reported.

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



# Detection Summary

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

## Client Sample ID: MW107M

## Lab Sample ID: 500-151650-1

| Analyte | Result | Qualifier | RL    | MDL   | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|-------|-------|------|---------|---|---------------|-------------------|
| Arsenic | 35     |           | 0.050 | 0.021 | mg/L | 10      |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW107D

## Lab Sample ID: 500-151650-2

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.13   |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW021S

## Lab Sample ID: 500-151650-3

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.072  |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW021S/D

## Lab Sample ID: 500-151650-4

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.070  |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW021M

## Lab Sample ID: 500-151650-5

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.045  |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW101S

## Lab Sample ID: 500-151650-6

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.061  |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW101M

## Lab Sample ID: 500-151650-7

No Detections.

## Client Sample ID: MW047S

## Lab Sample ID: 500-151650-8

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.12   |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW047M

## Lab Sample ID: 500-151650-9

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 1.3    |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW047D

## Lab Sample ID: 500-151650-10

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

## Client Sample ID: MW047D (Continued)

Lab Sample ID: 500-151650-10

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.23   |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW102S

Lab Sample ID: 500-151650-11

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.11   |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW102S/D

Lab Sample ID: 500-151650-12

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.11   |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW102M

Lab Sample ID: 500-151650-13

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.35   |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW102D

Lab Sample ID: 500-151650-14

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.063  |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW103S

Lab Sample ID: 500-151650-15

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.039  |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW103M

Lab Sample ID: 500-151650-16

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.023  |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW118S

Lab Sample ID: 500-151650-17

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 2.2    |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW118M

Lab Sample ID: 500-151650-18

| Analyte | Result | Qualifier | RL    | MDL   | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|-------|-------|------|---------|---|---------------|-------------------|
| Arsenic | 9.9    |           | 0.025 | 0.010 | mg/L | 5       |   | 200.7 Rev 4.4 | Total Recoverable |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

## Client Sample ID: FB#1

Lab Sample ID: 500-151650-19

No Detections.

## Client Sample ID: FB#2

Lab Sample ID: 500-151650-20

No Detections.

## Client Sample ID: MW100S

Lab Sample ID: 500-151650-21

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.091  |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW100M

Lab Sample ID: 500-151650-22

No Detections.

## Client Sample ID: MW100D

Lab Sample ID: 500-151650-23

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.14   |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW109S

Lab Sample ID: 500-151650-24

| Analyte | Result | Qualifier | RL    | MDL   | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|-------|-------|------|---------|---|---------------|-------------------|
| Arsenic | 42     | F2        | 0.050 | 0.021 | mg/L | 10      |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW109M

Lab Sample ID: 500-151650-25

| Analyte | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|-----|-----|------|---------|---|---------------|-------------------|
| Arsenic | 1900   |           | 2.5 | 1.0 | mg/L | 500     |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW109D

Lab Sample ID: 500-151650-26

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 6.9    |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW109D/D

Lab Sample ID: 500-151650-27

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 6.9    |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW064S

Lab Sample ID: 500-151650-28

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 2.0    |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW064M

Lab Sample ID: 500-151650-29

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

## Client Sample ID: MW064M (Continued)

Lab Sample ID: 500-151650-29

| Analyte | Result | Qualifier | RL   | MDL  | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|------|------|------|---------|---|---------------|-------------------|
| Arsenic | 320    |           | 0.50 | 0.21 | mg/L | 100     |   | 200.7 Rev 4.4 | Total Recoverable |

## Client Sample ID: MW064D

Lab Sample ID: 500-151650-30

| Analyte | Result | Qualifier | RL     | MDL    | Unit | Dil Fac | D | Method        | Prep Type         |
|---------|--------|-----------|--------|--------|------|---------|---|---------------|-------------------|
| Arsenic | 0.86   |           | 0.0050 | 0.0021 | mg/L | 1       |   | 200.7 Rev 4.4 | Total Recoverable |

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago



# Method Summary

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

| Method        | Method Description                    | Protocol | Laboratory |
|---------------|---------------------------------------|----------|------------|
| 200.7 Rev 4.4 | Metals (ICP)                          | EPA      | TAL CHI    |
| 200.7         | Preparation, Total Recoverable Metals | EPA      | TAL CHI    |

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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# Sample Summary

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 500-151650-1  | MW107M           | Water  | 09/12/18 13:14 | 09/19/18 08:50 |
| 500-151650-2  | MW107D           | Water  | 09/12/18 13:50 | 09/19/18 08:50 |
| 500-151650-3  | MW021S           | Water  | 09/12/18 14:47 | 09/19/18 08:50 |
| 500-151650-4  | MW021S/D         | Water  | 09/12/18 14:47 | 09/19/18 08:50 |
| 500-151650-5  | MW021M           | Water  | 09/12/18 14:49 | 09/19/18 08:50 |
| 500-151650-6  | MW101S           | Water  | 09/12/18 16:09 | 09/19/18 08:50 |
| 500-151650-7  | MW101M           | Water  | 09/12/18 16:12 | 09/19/18 08:50 |
| 500-151650-8  | MW047S           | Water  | 09/13/18 10:28 | 09/19/18 08:50 |
| 500-151650-9  | MW047M           | Water  | 09/13/18 10:31 | 09/19/18 08:50 |
| 500-151650-10 | MW047D           | Water  | 09/13/18 10:33 | 09/19/18 08:50 |
| 500-151650-11 | MW102S           | Water  | 09/13/18 14:15 | 09/19/18 08:50 |
| 500-151650-12 | MW102S/D         | Water  | 09/13/18 14:15 | 09/19/18 08:50 |
| 500-151650-13 | MW102M           | Water  | 09/13/18 14:12 | 09/19/18 08:50 |
| 500-151650-14 | MW102D           | Water  | 09/13/18 14:19 | 09/19/18 08:50 |
| 500-151650-15 | MW103S           | Water  | 09/13/18 15:23 | 09/19/18 08:50 |
| 500-151650-16 | MW103M           | Water  | 09/13/18 15:25 | 09/19/18 08:50 |
| 500-151650-17 | MW118S           | Water  | 09/13/18 16:12 | 09/19/18 08:50 |
| 500-151650-18 | MW118M           | Water  | 09/13/18 16:17 | 09/19/18 08:50 |
| 500-151650-19 | FB#1             | Water  | 09/13/18 16:16 | 09/19/18 08:50 |
| 500-151650-20 | FB#2             | Water  | 09/14/18 08:58 | 09/19/18 08:50 |
| 500-151650-21 | MW100S           | Water  | 09/13/18 09:28 | 09/19/18 08:50 |
| 500-151650-22 | MW100M           | Water  | 09/13/18 09:19 | 09/19/18 08:50 |
| 500-151650-23 | MW100D           | Water  | 09/13/18 09:19 | 09/19/18 08:50 |
| 500-151650-24 | MW109S           | Water  | 09/13/18 07:46 | 09/19/18 08:50 |
| 500-151650-25 | MW109M           | Water  | 09/13/18 07:58 | 09/19/18 08:50 |
| 500-151650-26 | MW109D           | Water  | 09/13/18 07:55 | 09/19/18 08:50 |
| 500-151650-27 | MW109D/D         | Water  | 09/13/18 07:56 | 09/19/18 08:50 |
| 500-151650-28 | MW064S           | Water  | 09/13/18 12:57 | 09/19/18 08:50 |
| 500-151650-29 | MW064M           | Water  | 09/13/18 13:00 | 09/19/18 08:50 |
| 500-151650-30 | MW064D           | Water  | 09/13/18 13:18 | 09/19/18 08:50 |

# Client Sample Results

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

**Client Sample ID: MW107M**

Date Collected: 09/12/18 13:14

Date Received: 09/19/18 08:50

**Lab Sample ID: 500-151650-1**

Matrix: Water

**Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable**

| Analyte | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Arsenic | 35     |           | 0.050 | 0.021 | mg/L |   | 09/19/18 15:34 | 09/28/18 13:00 | 10      |

**Client Sample ID: MW107D**

Date Collected: 09/12/18 13:50

Date Received: 09/19/18 08:50

**Lab Sample ID: 500-151650-2**

Matrix: Water

**Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable**

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.13   |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 13:16 | 1       |

**Client Sample ID: MW021S**

Date Collected: 09/12/18 14:47

Date Received: 09/19/18 08:50

**Lab Sample ID: 500-151650-3**

Matrix: Water

**Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable**

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.072  |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 13:20 | 1       |

**Client Sample ID: MW021S/D**

Date Collected: 09/12/18 14:47

Date Received: 09/19/18 08:50

**Lab Sample ID: 500-151650-4**

Matrix: Water

**Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable**

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.070  |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 13:24 | 1       |

**Client Sample ID: MW021M**

Date Collected: 09/12/18 14:49

Date Received: 09/19/18 08:50

**Lab Sample ID: 500-151650-5**

Matrix: Water

**Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable**

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.045  |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 04:46 | 1       |

**Client Sample ID: MW101S**

Date Collected: 09/12/18 16:09

Date Received: 09/19/18 08:50

**Lab Sample ID: 500-151650-6**

Matrix: Water

**Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable**

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.061  |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 04:50 | 1       |

**Client Sample ID: MW101M**

Date Collected: 09/12/18 16:12

Date Received: 09/19/18 08:50

**Lab Sample ID: 500-151650-7**

Matrix: Water

**Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable**

| Analyte | Result  | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0021 |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 04:54 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

## Client Sample ID: MW047S

Date Collected: 09/13/18 10:28

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-8

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.12   |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 04:59 | 1       |

## Client Sample ID: MW047M

Date Collected: 09/13/18 10:31

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-9

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 1.3    |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 05:03 | 1       |

## Client Sample ID: MW047D

Date Collected: 09/13/18 10:33

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-10

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.23   |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 05:07 | 1       |

## Client Sample ID: MW102S

Date Collected: 09/13/18 14:15

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-11

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.11   |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 05:11 | 1       |

## Client Sample ID: MW102S/D

Date Collected: 09/13/18 14:15

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-12

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.11   |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 05:41 | 1       |

## Client Sample ID: MW102M

Date Collected: 09/13/18 14:12

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-13

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.35   |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 05:45 | 1       |

## Client Sample ID: MW102D

Date Collected: 09/13/18 14:19

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-14

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.063  |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 05:49 | 1       |

TestAmerica Chicago



# Client Sample Results

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

## Client Sample ID: MW103S

Date Collected: 09/13/18 15:23

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-15

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.039  |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 05:54 | 1       |

## Client Sample ID: MW103M

Date Collected: 09/13/18 15:25

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-16

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.023  |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 05:58 | 1       |

## Client Sample ID: MW118S

Date Collected: 09/13/18 16:12

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-17

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 2.2    |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 06:02 | 1       |

## Client Sample ID: MW118M

Date Collected: 09/13/18 16:17

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-18

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Arsenic | 9.9    |           | 0.025 | 0.010 | mg/L |   | 09/19/18 15:34 | 09/28/18 13:28 | 5       |

## Client Sample ID: FB#1

Date Collected: 09/13/18 16:16

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-19

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result  | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0021 |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 06:10 | 1       |

## Client Sample ID: FB#2

Date Collected: 09/14/18 08:58

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-20

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result  | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0021 |           | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 06:14 | 1       |

## Client Sample ID: MW100S

Date Collected: 09/13/18 09:28

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-21

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.091  |           | 0.0050 | 0.0021 | mg/L |   | 09/20/18 08:19 | 09/27/18 20:28 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

## Client Sample ID: MW100M

Date Collected: 09/13/18 09:19

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-22

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result  | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0021 | ^         | 0.0050 | 0.0021 | mg/L | - | 09/20/18 08:19 | 09/26/18 04:03 | 1       |

## Client Sample ID: MW100D

Date Collected: 09/13/18 09:19

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-23

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.14   |           | 0.0050 | 0.0021 | mg/L | - | 09/20/18 08:19 | 09/27/18 20:32 | 1       |

## Client Sample ID: MW109S

Date Collected: 09/13/18 07:46

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-24

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL    | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Arsenic | 42     | F2        | 0.050 | 0.021 | mg/L | - | 09/20/18 08:19 | 09/27/18 20:36 | 10      |

## Client Sample ID: MW109M

Date Collected: 09/13/18 07:58

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-25

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Arsenic | 1900   |           | 2.5 | 1.0 | mg/L | - | 09/20/18 08:19 | 09/28/18 13:00 | 500     |

## Client Sample ID: MW109D

Date Collected: 09/13/18 07:55

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-26

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 6.9    |           | 0.0050 | 0.0021 | mg/L | - | 09/20/18 08:19 | 09/27/18 21:09 | 1       |

## Client Sample ID: MW109D/D

Date Collected: 09/13/18 07:56

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-27

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 6.9    |           | 0.0050 | 0.0021 | mg/L | - | 09/20/18 08:19 | 09/27/18 21:13 | 1       |

## Client Sample ID: MW064S

Date Collected: 09/13/18 12:57

Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-28

Matrix: Water

### Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 2.0    |           | 0.0050 | 0.0021 | mg/L | - | 09/20/18 08:19 | 09/27/18 21:17 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

**Client Sample ID: MW064M**

**Date Collected: 09/13/18 13:00**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-29**

**Matrix: Water**

**Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable**

| Analyte | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Arsenic | 320    |           | 0.50 | 0.21 | mg/L |   | 09/20/18 08:19 | 09/28/18 13:04 | 100     |

**Client Sample ID: MW064D**

**Date Collected: 09/13/18 13:18**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-30**

**Matrix: Water**

**Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable**

| Analyte | Result | Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | 0.86   |           | 0.0050 | 0.0021 | mg/L |   | 09/20/18 08:19 | 09/27/18 21:25 | 1       |

# Definitions/Glossary

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

## Qualifiers

### Metals

| Qualifier | Qualifier Description   |
|-----------|---|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| ^         | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.  |
| F2        | MS/MSD RPD exceeds control limits   |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| 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)   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |

# QC Association Summary

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

## Metals

### Prep Batch: 450739

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-151650-1       | MW107M             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-2       | MW107D             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-3       | MW021S             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-4       | MW021S/D           | Total Recoverable | Water  | 200.7  |            |
| 500-151650-5       | MW021M             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-6       | MW101S             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-7       | MW101M             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-8       | MW047S             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-9       | MW047M             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-10      | MW047D             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-11      | MW102S             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-12      | MW102S/D           | Total Recoverable | Water  | 200.7  |            |
| 500-151650-13      | MW102M             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-14      | MW102D             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-15      | MW103S             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-16      | MW103M             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-17      | MW118S             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-18      | MW118M             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-19      | FB#1               | Total Recoverable | Water  | 200.7  |            |
| 500-151650-20      | FB#2               | Total Recoverable | Water  | 200.7  |            |
| MB 500-450739/1-A  | Method Blank       | Total Recoverable | Water  | 200.7  |            |
| LCS 500-450739/2-A | Lab Control Sample | Total Recoverable | Water  | 200.7  |            |
| 500-151650-1 MS    | MW107M             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-11 MS   | MW102S             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-11 MSD  | MW102S             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-1 DU    | MW107M             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-11 DU   | MW102S             | Total Recoverable | Water  | 200.7  |            |

### Prep Batch: 450861

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-151650-21      | MW100S             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-22      | MW100M             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-23      | MW100D             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-24      | MW109S             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-25      | MW109M             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-26      | MW109D             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-27      | MW109D/D           | Total Recoverable | Water  | 200.7  |            |
| 500-151650-28      | MW064S             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-29      | MW064M             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-30      | MW064D             | Total Recoverable | Water  | 200.7  |            |
| MB 500-450861/1-A  | Method Blank       | Total Recoverable | Water  | 200.7  |            |
| LCS 500-450861/2-A | Lab Control Sample | Total Recoverable | Water  | 200.7  |            |
| 500-151650-24 MS   | MW109S             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-24 MSD  | MW109S             | Total Recoverable | Water  | 200.7  |            |
| 500-151650-24 DU   | MW109S             | Total Recoverable | Water  | 200.7  |            |

### Analysis Batch: 451778

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method        | Prep Batch |
|--------------------|--------------------|-------------------|--------|---------------|------------|
| 500-151650-22      | MW100M             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |
| MB 500-450861/1-A  | Method Blank       | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |
| LCS 500-450861/2-A | Lab Control Sample | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |

TestAmerica Chicago

# QC Association Summary

Client: Tyco Fire Protection Products  
 Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

## Analysis Batch: 452195

| Lab Sample ID     | Client Sample ID | Prep Type         | Matrix | Method        | Prep Batch |
|-------------------|------------------|-------------------|--------|---------------|------------|
| 500-151650-21     | MW100S           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |
| 500-151650-23     | MW100D           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |
| 500-151650-24     | MW109S           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |
| 500-151650-26     | MW109D           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |
| 500-151650-27     | MW109D/D         | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |
| 500-151650-28     | MW064S           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |
| 500-151650-30     | MW064D           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |
| 500-151650-24 MS  | MW109S           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |
| 500-151650-24 MSD | MW109S           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |
| 500-151650-24 DU  | MW109S           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |

## Analysis Batch: 452196

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method        | Prep Batch |
|--------------------|--------------------|-------------------|--------|---------------|------------|
| 500-151650-5       | MW021M             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-6       | MW101S             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-7       | MW101M             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-8       | MW047S             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-9       | MW047M             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-10      | MW047D             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-11      | MW102S             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-12      | MW102S/D           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-13      | MW102M             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-14      | MW102D             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-15      | MW103S             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-16      | MW103M             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-17      | MW118S             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-19      | FB#1               | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-20      | FB#2               | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| MB 500-450739/1-A  | Method Blank       | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| LCS 500-450739/2-A | Lab Control Sample | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-11 MS   | MW102S             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-11 MSD  | MW102S             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-11 DU   | MW102S             | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |

## Analysis Batch: 452316

| Lab Sample ID   | Client Sample ID | Prep Type         | Matrix | Method        | Prep Batch |
|-----------------|------------------|-------------------|--------|---------------|------------|
| 500-151650-1    | MW107M           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-2    | MW107D           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-3    | MW021S           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-4    | MW021S/D         | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-18   | MW118M           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-1 MS | MW107M           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |
| 500-151650-1 DU | MW107M           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450739     |

## Analysis Batch: 452317

| Lab Sample ID | Client Sample ID | Prep Type         | Matrix | Method        | Prep Batch |
|---------------|------------------|-------------------|--------|---------------|------------|
| 500-151650-25 | MW109M           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |
| 500-151650-29 | MW064M           | Total Recoverable | Water  | 200.7 Rev 4.4 | 450861     |

# QC Sample Results

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Lab Sample ID: MB 500-450739/1-A**  
**Matrix: Water**  
**Analysis Batch: 452196**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 450739**

| Analyte | MB Result | MB Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0021   | ^            | 0.0050 | 0.0021 | mg/L |   | 09/19/18 15:34 | 09/28/18 03:59 | 1       |

**Lab Sample ID: LCS 500-450739/2-A**  
**Matrix: Water**  
**Analysis Batch: 452196**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 450739**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Arsenic | 0.0500      | 0.0545     | ^             | mg/L |   | 109  | 85 - 115     |

**Lab Sample ID: 500-151650-1 MS**  
**Matrix: Water**  
**Analysis Batch: 452316**

**Client Sample ID: MW107M**  
**Prep Type: Total Recoverable**  
**Prep Batch: 450739**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Arsenic | 35            |                  | 0.0500      | 35.8      | 4            | mg/L |   | 2454 | 70 - 130     |

**Lab Sample ID: 500-151650-11 MS**  
**Matrix: Water**  
**Analysis Batch: 452196**

**Client Sample ID: MW102S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 450739**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Arsenic | 0.11          |                  | 0.0500      | 0.170     |              | mg/L |   | 114  | 70 - 130     |

**Lab Sample ID: 500-151650-11 MSD**  
**Matrix: Water**  
**Analysis Batch: 452196**

**Client Sample ID: MW102S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 450739**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Arsenic | 0.11          |                  | 0.0500      | 0.169      |               | mg/L |   | 111  | 70 - 130     | 1   | 20        |

**Lab Sample ID: 500-151650-1 DU**  
**Matrix: Water**  
**Analysis Batch: 452316**

**Client Sample ID: MW107M**  
**Prep Type: Total Recoverable**  
**Prep Batch: 450739**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Arsenic | 35            |                  | 32.2      |              | mg/L |   | 7   | 20        |

**Lab Sample ID: 500-151650-11 DU**  
**Matrix: Water**  
**Analysis Batch: 452196**

**Client Sample ID: MW102S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 450739**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Arsenic | 0.11          |                  | 0.120     |              | mg/L |   | 6   | 20        |

**Lab Sample ID: MB 500-450861/1-A**  
**Matrix: Water**  
**Analysis Batch: 451778**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 450861**

| Analyte | MB Result | MB Qualifier | RL     | MDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|--------|--------|------|---|----------------|----------------|---------|
| Arsenic | <0.0021   |              | 0.0050 | 0.0021 | mg/L |   | 09/20/18 08:19 | 09/26/18 03:43 | 1       |

TestAmerica Chicago

# QC Sample Results

Client: Tyco Fire Protection Products  
 Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

**Lab Sample ID: LCS 500-450861/2-A**  
**Matrix: Water**  
**Analysis Batch: 451778**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 450861**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|---------|-------------|------------|---------------|------|---|------|----------|
| Arsenic | 0.0500      | 0.0487     | ^             | mg/L |   | 97   | 85 - 115 |

**Lab Sample ID: 500-151650-24 MS**  
**Matrix: Water**  
**Analysis Batch: 452195**

**Client Sample ID: MW109S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 450861**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec       | Limits   |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------------|----------|
| Arsenic | 42            | F2               | 0.0500      | 27.0      | 4            | mg/L |   | -3076<br>3 | 70 - 130 |

**Lab Sample ID: 500-151650-24 MSD**  
**Matrix: Water**  
**Analysis Batch: 452195**

**Client Sample ID: MW109S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 450861**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec       | Limits   | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------------|----------|-----|-----------|
| Arsenic | 42            | F2               | 0.0500      | 13.5       | 4 F2          | mg/L |   | -5776<br>6 | 70 - 130 | 67  | 20        |

**Lab Sample ID: 500-151650-24 DU**  
**Matrix: Water**  
**Analysis Batch: 452195**

**Client Sample ID: MW109S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 450861**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Arsenic | 42            | F2               | 41.9      |              | mg/L |   | 1   | 20        |



# Lab Chronicle

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

**Client Sample ID: MW107M**

**Date Collected: 09/12/18 13:14**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-1**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 10              | 452316       | 09/28/18 13:00       | JEF     | TAL CHI |

**Client Sample ID: MW107D**

**Date Collected: 09/12/18 13:50**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-2**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452316       | 09/28/18 13:16       | JEF     | TAL CHI |

**Client Sample ID: MW021S**

**Date Collected: 09/12/18 14:47**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-3**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452316       | 09/28/18 13:20       | JEF     | TAL CHI |

**Client Sample ID: MW021S/D**

**Date Collected: 09/12/18 14:47**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-4**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452316       | 09/28/18 13:24       | JEF     | TAL CHI |

**Client Sample ID: MW021M**

**Date Collected: 09/12/18 14:49**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-5**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 04:46       | EEN     | TAL CHI |

**Client Sample ID: MW101S**

**Date Collected: 09/12/18 16:09**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-6**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 04:50       | EEN     | TAL CHI |

TestAmerica Chicago

# Lab Chronicle

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

**Client Sample ID: MW101M**

**Date Collected: 09/12/18 16:12**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-7**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 04:54       | EEN     | TAL CHI |

**Client Sample ID: MW047S**

**Date Collected: 09/13/18 10:28**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-8**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 04:59       | EEN     | TAL CHI |

**Client Sample ID: MW047M**

**Date Collected: 09/13/18 10:31**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-9**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 05:03       | EEN     | TAL CHI |

**Client Sample ID: MW047D**

**Date Collected: 09/13/18 10:33**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-10**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 05:07       | EEN     | TAL CHI |

**Client Sample ID: MW102S**

**Date Collected: 09/13/18 14:15**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-11**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 05:11       | EEN     | TAL CHI |

**Client Sample ID: MW102S/D**

**Date Collected: 09/13/18 14:15**

**Date Received: 09/19/18 08:50**

**Lab Sample ID: 500-151650-12**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 05:41       | EEN     | TAL CHI |

TestAmerica Chicago

# Lab Chronicle

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

**Client Sample ID: MW102M**

**Lab Sample ID: 500-151650-13**

**Date Collected: 09/13/18 14:12**

**Matrix: Water**

**Date Received: 09/19/18 08:50**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 05:45       | EEN     | TAL CHI |

**Client Sample ID: MW102D**

**Lab Sample ID: 500-151650-14**

**Date Collected: 09/13/18 14:19**

**Matrix: Water**

**Date Received: 09/19/18 08:50**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 05:49       | EEN     | TAL CHI |

**Client Sample ID: MW103S**

**Lab Sample ID: 500-151650-15**

**Date Collected: 09/13/18 15:23**

**Matrix: Water**

**Date Received: 09/19/18 08:50**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 05:54       | EEN     | TAL CHI |

**Client Sample ID: MW103M**

**Lab Sample ID: 500-151650-16**

**Date Collected: 09/13/18 15:25**

**Matrix: Water**

**Date Received: 09/19/18 08:50**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 05:58       | EEN     | TAL CHI |

**Client Sample ID: MW118S**

**Lab Sample ID: 500-151650-17**

**Date Collected: 09/13/18 16:12**

**Matrix: Water**

**Date Received: 09/19/18 08:50**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 06:02       | EEN     | TAL CHI |

**Client Sample ID: MW118M**

**Lab Sample ID: 500-151650-18**

**Date Collected: 09/13/18 16:17**

**Matrix: Water**

**Date Received: 09/19/18 08:50**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 5               | 452316       | 09/28/18 13:28       | JEF     | TAL CHI |

TestAmerica Chicago

# Lab Chronicle

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

## Client Sample ID: FB#1

Date Collected: 09/13/18 16:16  
Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-19

Matrix: Water

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 06:10       | EEN     | TAL CHI |

## Client Sample ID: FB#2

Date Collected: 09/14/18 08:58  
Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-20

Matrix: Water

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450739       | 09/19/18 15:34       | BDE     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452196       | 09/28/18 06:14       | EEN     | TAL CHI |

## Client Sample ID: MW100S

Date Collected: 09/13/18 09:28  
Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-21

Matrix: Water

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450861       | 09/20/18 08:19       | SAH     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452195       | 09/27/18 20:28       | EEN     | TAL CHI |

## Client Sample ID: MW100M

Date Collected: 09/13/18 09:19  
Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-22

Matrix: Water

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450861       | 09/20/18 08:19       | SAH     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 451778       | 09/26/18 04:03       | EEN     | TAL CHI |

## Client Sample ID: MW100D

Date Collected: 09/13/18 09:19  
Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-23

Matrix: Water

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450861       | 09/20/18 08:19       | SAH     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452195       | 09/27/18 20:32       | EEN     | TAL CHI |

## Client Sample ID: MW109S

Date Collected: 09/13/18 07:46  
Date Received: 09/19/18 08:50

## Lab Sample ID: 500-151650-24

Matrix: Water

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450861       | 09/20/18 08:19       | SAH     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 10              | 452195       | 09/27/18 20:36       | EEN     | TAL CHI |

TestAmerica Chicago

# Lab Chronicle

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

**Client Sample ID: MW109M**

**Lab Sample ID: 500-151650-25**

**Date Collected: 09/13/18 07:58**

**Matrix: Water**

**Date Received: 09/19/18 08:50**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450861       | 09/20/18 08:19       | SAH     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 500             | 452317       | 09/28/18 13:00       | JEF     | TAL CHI |

**Client Sample ID: MW109D**

**Lab Sample ID: 500-151650-26**

**Date Collected: 09/13/18 07:55**

**Matrix: Water**

**Date Received: 09/19/18 08:50**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450861       | 09/20/18 08:19       | SAH     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452195       | 09/27/18 21:09       | EEN     | TAL CHI |

**Client Sample ID: MW109D/D**

**Lab Sample ID: 500-151650-27**

**Date Collected: 09/13/18 07:56**

**Matrix: Water**

**Date Received: 09/19/18 08:50**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450861       | 09/20/18 08:19       | SAH     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452195       | 09/27/18 21:13       | EEN     | TAL CHI |

**Client Sample ID: MW064S**

**Lab Sample ID: 500-151650-28**

**Date Collected: 09/13/18 12:57**

**Matrix: Water**

**Date Received: 09/19/18 08:50**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450861       | 09/20/18 08:19       | SAH     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452195       | 09/27/18 21:17       | EEN     | TAL CHI |

**Client Sample ID: MW064M**

**Lab Sample ID: 500-151650-29**

**Date Collected: 09/13/18 13:00**

**Matrix: Water**

**Date Received: 09/19/18 08:50**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450861       | 09/20/18 08:19       | SAH     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 100             | 452317       | 09/28/18 13:04       | JEF     | TAL CHI |

**Client Sample ID: MW064D**

**Lab Sample ID: 500-151650-30**

**Date Collected: 09/13/18 13:18**

**Matrix: Water**

**Date Received: 09/19/18 08:50**

| Prep Type         | Batch Type | Batch Method  | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.7         |     |                 | 450861       | 09/20/18 08:19       | SAH     | TAL CHI |
| Total Recoverable | Analysis   | 200.7 Rev 4.4 |     | 1               | 452195       | 09/27/18 21:25       | EEN     | TAL CHI |

TestAmerica Chicago

# Lab Chronicle

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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# Accreditation/Certification Summary

Client: Tyco Fire Protection Products  
Project/Site: Barrier Wall Monitoring

TestAmerica Job ID: 500-151650-1

## Laboratory: TestAmerica Chicago

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

| Authority | Program       | EPA Region | Identification Number | Expiration Date |
|-----------|---------------|------------|-----------------------|-----------------|
| Wisconsin | State Program | 5          | 999580010             | 08-31-19        |

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# TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604  
Phone: 708.634.6200 Fax: 708.634.



500-151650 COC

Report To (optional) Jeff Danko  
 Contact: Jeff Danko  
 Company: Johnson Controls  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 262-951-6888  
 Fax: \_\_\_\_\_  
 E-Mail: jeff.danko-ext@jci.com

Bill To (optional) \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-151650

Chain of Custody Number: \_\_\_\_\_

Page 1 of 6

Temperature °C of Cooler: Unchilled

| Client                 |        | Client Project # |         | Preservative |                 |        |   |  |  |  |  |  |  |  |  |  |          |  |  | Preservative Key<br>1. HCl, Cool to 4°<br>2. H2SO4, Cool to 4°<br>3. HNO3, Cool to 4°<br>4. NaOH, Cool to 4°<br>5. NaOH/Zn, Cool to 4°<br>6. NaHSO4<br>7. Cool to 4°<br>8. None<br>9. Other |  |
|------------------------|--------|------------------|---------|--------------|-----------------|--------|---|--|--|--|--|--|--|--|--|--|----------|--|--|---|--|
| Project Name           |        |                  |         | Parameter    |                 |        |   |  |  |  |  |  |  |  |  |  | Comments |  |  |   |  |
| Project Location/State |        | Lab Project #    |         | Total AS     |                 |        |   |  |  |  |  |  |  |  |  |  |          |  |  |   |  |
| Sampler                |        | Lab PM           |         |              |                 |        |   |  |  |  |  |  |  |  |  |  |          |  |  |   |  |
| Lab ID                 | MS/MSD | Sample ID        | Date    | Time         | # of Containers | Matrix |   |  |  |  |  |  |  |  |  |  |          |  |  |   |  |
| 1                      |        | MW107M           | 9/12/18 | 1314         | 1               | W      | X |  |  |  |  |  |  |  |  |  |          |  |  |   |  |
| 2                      |        | MW107D           | 9/12/18 | 1350         | 1               | W      | X |  |  |  |  |  |  |  |  |  |          |  |  |   |  |
| 3                      |        | MW021S           | 9/12/18 | 1447         | 1               | W      | X |  |  |  |  |  |  |  |  |  |          |  |  |   |  |
| 4                      |        | MW021S/D         | 9/12/18 | 1447         | 1               | W      | X |  |  |  |  |  |  |  |  |  |          |  |  |   |  |
| 5                      |        | MW021M           | 9/12/18 | 1449         | 1               | W      | X |  |  |  |  |  |  |  |  |  |          |  |  |   |  |
| 6                      |        | MW101S           | 9/12/18 | 1609         | 1               | W      | X |  |  |  |  |  |  |  |  |  |          |  |  |   |  |
| 7                      |        | MW101M           | 9/12/18 | 1612         | 1               | W      | X |  |  |  |  |  |  |  |  |  |          |  |  |   |  |
| 8                      |        | MW047S           | 9/13/18 | 1028         | 1               | W      | X |  |  |  |  |  |  |  |  |  |          |  |  |   |  |
| 9                      |        | MW047M           | 9/13/18 | 1031         | 1               | W      | X |  |  |  |  |  |  |  |  |  |          |  |  |   |  |
| 10                     |        | MW047D           | 9/18/18 | 1033         | 1               | W      | X |  |  |  |  |  |  |  |  |  |          |  |  |   |  |

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days  10 Days \_\_\_ 15 Days \_\_\_ Other

Requested Drop Date: \_\_\_\_\_

Sample Disposal  
 Return to Client  Disposal by Lab  Archive for 6 Months (A fee may be assessed if samples are retained longer than 1 month)

|                                     |                     |                      |                   |                                 |                        |                      |                   |                       |
|-------------------------------------|---------------------|----------------------|-------------------|---------------------------------|------------------------|----------------------|-------------------|-----------------------|
| Relinquished By: <u>[Signature]</u> | Company: <u>JCI</u> | Date: <u>9/17/18</u> | Time: <u>1636</u> | Received By: <u>[Signature]</u> | Company: <u>FA-018</u> | Date: <u>9/19/18</u> | Time: <u>0850</u> | Lab Courier: _____    |
| Relinquished By: _____              | Company: _____      | Date: _____          | Time: _____       | Received By: _____              | Company: _____         | Date: _____          | Time: _____       | Shipped: <u>FedEx</u> |
| Relinquished By: _____              | Company: _____      | Date: _____          | Time: _____       | Received By: _____              | Company: _____         | Date: _____          | Time: _____       | Hand Delivered: _____ |

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WI - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments: \_\_\_\_\_

Lab Comments: \_\_\_\_\_



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.634.5200 Fax: 708.634.5211

Report To (optional)  
 Contact: Jeff Danko  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: 262-951-6888  
 Fax: \_\_\_\_\_  
 E-Mail: jeff.danko-ext@ejci.com

Bill To (optional)  
 Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference#: \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-151650  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of 6  
 Temperature °C of Cooler: \_\_\_\_\_

| Client                 |        | Client Project # |  | Preservative |      |                 |        |   |  |  |  |  |  |  |  |  |  |  | Preservative Key<br>1. HCL, Cool to 4°<br>2. H2SO4, Cool to 4°<br>3. HNO3, Cool to 4°<br>4. NaOH, Cool to 4°<br>5. NaOH/Zn, Cool to 4°<br>6. NaHSO4<br>7. Cool to 4°<br>8. None<br>9. Other |  |
|------------------------|--------|------------------|--|--------------|------|-----------------|--------|---|--|--|--|--|--|--|--|--|--|--|---|--|
| Project Name           |        | Lab Project #    |  | Parameter    |      |                 |        |   |  |  |  |  |  |  |  |  |  |  |   |  |
| Project Location/State |        | Lab Project #    |  | Total As     |      |                 |        |   |  |  |  |  |  |  |  |  |  |  |   |  |
| Sampler                |        | Lab PM           |  |              |      |                 |        |   |  |  |  |  |  |  |  |  |  |  | Comments  |  |
| Lab ID                 | MS/MSD | Sample ID        |  | Date         | Time | # of Containers | Matrix |   |  |  |  |  |  |  |  |  |  |  |   |  |
| 11                     | X      | MW102 S          |  | 9/13/18      | 1415 | 3               | W      | X |  |  |  |  |  |  |  |  |  |  |   |  |
| 12                     |        | MW102 S/D        |  | 9/13/18      | 1415 | 1               | W      | X |  |  |  |  |  |  |  |  |  |  |   |  |
| 13                     |        | MW102 M          |  | 9/13/18      | 1412 | 1               | W      | X |  |  |  |  |  |  |  |  |  |  |   |  |
| 14                     |        | MW102 D          |  | 9/13/18      | 1419 | 1               | W      | X |  |  |  |  |  |  |  |  |  |  |   |  |
| 15                     |        | MW103 S          |  | 9/13/18      | 1523 | 1               | W      | X |  |  |  |  |  |  |  |  |  |  |   |  |
| 16                     |        | MW103 M          |  | 9/13/18      | 1525 | 1               | W      | X |  |  |  |  |  |  |  |  |  |  |   |  |
| 17                     |        | MW118 S          |  | 9/13/18      | 1612 | 1               | W      | X |  |  |  |  |  |  |  |  |  |  |   |  |
| 18                     |        | MW118 M          |  | 9/13/18      | 1617 | 1               | W      | X |  |  |  |  |  |  |  |  |  |  |   |  |
| 19                     |        | FB #1            |  | 9/13/18      | 1616 | 1               | W      | X |  |  |  |  |  |  |  |  |  |  |   |  |
| 20                     |        | FB #2            |  | 9/14/18      | 858  | 1               | W      | X |  |  |  |  |  |  |  |  |  |  |   |  |

Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days X 10 Days \_\_\_ 15 Days \_\_\_ Other  
 Requested Date: \_\_\_\_\_  
 Sample Disposal:  Return to Client  Disposal by Lab  Archive for 6 Months (A fee may be assessed if samples are retained longer than 1 month)

|                                     |                     |                      |                   |                                 |                        |                      |                   |                       |
|-------------------------------------|---------------------|----------------------|-------------------|---------------------------------|------------------------|----------------------|-------------------|-----------------------|
| Relinquished By: <u>[Signature]</u> | Company: <u>JCE</u> | Date: <u>9/17/18</u> | Time: <u>1636</u> | Received By: <u>[Signature]</u> | Company: <u>TA-CHE</u> | Date: <u>9/19/18</u> | Time: <u>0850</u> | Lab Courier: _____    |
| Relinquished By: _____              | Company: _____      | Date: _____          | Time: _____       | Received By: _____              | Company: _____         | Date: _____          | Time: _____       | Shipped: <u>Fed X</u> |
| Relinquished By: _____              | Company: _____      | Date: _____          | Time: _____       | Received By: _____              | Company: _____         | Date: _____          | Time: _____       | Hand Delivered: _____ |

Matrix Key  
 WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Soil L - Leachate  
 SL - Sludge WI - Wipe  
 MS - Miscellaneous DW - Drinking Water  
 OL - Oil O - Other  
 A - Air

Client Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_

Lab Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.594.5200 Fax: 708.634.5211

Report To (optional) Jeff Danko Bill To (optional) \_\_\_\_\_  
 Contact: Jeff Danko Contact: \_\_\_\_\_  
 Company: \_\_\_\_\_ Company: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 Phone: 262-951-6888 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-Mail: jeff.danko\_ext@jci.com PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-151650  
 Chain of Custody Number: \_\_\_\_\_  
 Page 3 of 6  
 Temperature °C of Cooler: \_\_\_\_\_

| Client                  |   | Client Project #       |  | Preservative    |   | Parameter |  | Sample        |  | Comments         |
|-------------------------|---|------------------------|--|-----------------|---|-----------|--|---------------|--|------------------|
| Tyco Fire Products      |   |                        |  | 3               |   |           |  | Total As      |  |                  |
| Project Name            |   | Project Location/State |  | # of Containers |   | Matrix    |  | Lab Project # |  | Preservative Key |
| Barrier Wall Monitoring |   | Marionette, WI         |  | 1               |   | W         |  |               |  |                  |
| Sampler                 |   | Lab PM                 |  | Date            |   | Time      |  | Sample ID     |  | Matrix           |
| J. Danko                |   |                        |  | 9/13/18         |   | 928       |  | MW100S        |  |                  |
| 21                      |   |                        |  | 1               | W | X         |  |               |  |                  |
| 22                      |   |                        |  | 1               | W | X         |  |               |  |                  |
| 23                      |   |                        |  | 1               | W | X         |  |               |  |                  |
| 24                      | X |                        |  | 3               | W | X         |  |               |  |                  |
| 25                      |   |                        |  | 1               | W | X         |  |               |  |                  |
| 26                      |   |                        |  | 1               | W | X         |  |               |  |                  |
| 27                      |   |                        |  | 1               | W | X         |  |               |  |                  |
| 28                      |   |                        |  | 1               | W | X         |  |               |  |                  |
| 29                      |   |                        |  | 1               | W | X         |  |               |  |                  |
| 30                      |   |                        |  | 1               | W | X         |  |               |  |                  |

- Preservative Key
1. HCL, Cool to 4°
  2. H2SO4, Cool to 4°
  3. HNO3, Cool to 4°
  4. NaOH, Cool to 4°
  5. NaOH/Zn, Cool to 4°
  6. NaHSO4
  7. Cool to 4°
  8. None
  9. Other

Turnaround Time Required (Business Days): 10 Days  
 Sample Disposal:  Return to Client  Disposal by Lab  Archive for 6 Months  
 Requested Date: \_\_\_\_\_

|                                     |                     |                      |                   |                                 |                     |                      |                   |                       |
|-------------------------------------|---------------------|----------------------|-------------------|---------------------------------|---------------------|----------------------|-------------------|-----------------------|
| Relinquished By: <u>[Signature]</u> | Company: <u>JCE</u> | Date: <u>9/17/18</u> | Time: <u>1636</u> | Received By: <u>[Signature]</u> | Company: <u>JCE</u> | Date: <u>9/19/18</u> | Time: <u>0850</u> | Lab Courier: _____    |
| Relinquished By: _____              | Company: _____      | Date: _____          | Time: _____       | Received By: _____              | Company: _____      | Date: _____          | Time: _____       | Shipped: <u>Fed X</u> |
| Relinquished By: _____              | Company: _____      | Date: _____          | Time: _____       | Received By: _____              | Company: _____      | Date: _____          | Time: _____       | Hand Delivered: _____ |

- Matrix Key
- WW - Wastewater
  - W - Water
  - S - Soil
  - SL - Sludge
  - MS - Miscellaneous
  - OL - Oil
  - A - Air
  - SE - Sediment
  - SO - Soil
  - L - Leachate
  - WJ - Wipe
  - DW - Drinking Water
  - O - Other

Client Comments: \_\_\_\_\_  
 Lab Comments: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Tyco Fire Protection Products

Job Number: 500-151650-1

**Login Number: 151650**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

| Question  | Answer | Comment   |
|---|--------|-----------|
| Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.      | 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.   | False  |           |
| Cooler Temperature is acceptable.   | True   |           |
| Cooler Temperature is recorded.   | True   | Unchilled |
| 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 <math><6\text{mm}</math> (1/4"). | N/A    |           |
| Multiphasic samples are not present.  | True   |           |
| Samples do not require splitting or compositing.  | True   |           |
| Residual Chlorine Checked.  | N/A    |           |