

April 16, 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 (January through March 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 January 1, 2018 through March 31, 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 first quarter of 2018. A summary of the operational data is included as Attachment 1. The Discharge Monitoring Reports (DMRs) are included in Attachment 2.

Additional Activities

Extraction Wells in the SV and 8th St. Slip areas were cleaned and rehabilitated by Coleman Engineering the week of January 8th, this did help restore the recovery of EW-2 but had no effect on the slow recovery of EW-3. The recovery of EW-2 did not yield increased flow to the GWCTS as expected, this indicated a plug in the conveyance line between the GWCTS and the extraction well. An attempt was made to put water and air pressure on the line similar to what was done to EW-3 in 2017, but this attempt was unsuccessful. Tyco plans to connect EW-2 into the new conveyance system being designed as a part of the permanent PDP management system. Tyco plans to abandon EW-3 once the permanent PDP system is operational as the well has very limited recovery and is unnecessary even as a redundancy to the wells managing the SV water levels.

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 December 2018 through February 2018 for the GWCTS. Additional data on the operation of the GWCTS is included in Attachment 1.

Groundwater elevation data were collected from monitoring wells located in the former 8th Street Slip and Salt Vault as part of the interim shut down (winter period) for the pump down program. Groundwater elevation data were collected on January 13, 2018, February 21, 2018, March 8, 2018, and March 30, 2018 and were provided to the agencies under separate email submittals following data collection`.

Tyco completed the quarterly download of data from the transducers installed in prescribed monitoring wells on January 13, 2017. 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 8th Street Slip and former Salt Vault areas in accordance with the pump down program requirements.

Problems Encountered

The GWCTS was down for 3 weeks in January for exceedance corrective actions which included the installation of a conductivity sensor with programming tied to the discharge control. This system correlates conductivity to projected arsenic levels and should help prevent the discharge of arsenic levels exceeding the WPDES criteria. Part of these corrective measures included recycling water processed by the Brine RO until it can be verified as operating within WPDES parameters. This recycling has reduced the efficiency of the system. The system was also down 2 weeks in February due to a failed sludge pump which could not be repaired. A replacement pump had some lead time, but has been installed and the system is now operating normally.

Schedule of Upcoming Activities

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

- Submit the quarterly progress report.
- Submit the 2017 barrier wall monitoring plan update annual report.
- Complete the 2nd quarter semi-annual barrier wall, cover area, and monitoring well inspections.
- Complete the spring barrier wall monitoring sampling event.
- Complete PFC related sampling event.
- Collect final quarterly river water samples

- Address any inspection findings for the vertical barrier wall, cover areas, and monitoring wells.
- Implement the remaining storm water management and storm sewer improvements.
- Recommence pump down operations in the former Salt Vault and former 8th Street Slip areas.
- Begin the dye test alternative project along barrier wall in the main plant area (assuming agency approval).
- Complete 2nd quarter tree plot inspections.
- Proceed with GWCTS modification engineering and procurement.

List of Key Correspondence and Document Submittals

Table 1
 Documents Submitted
Quarterly Progress Report (January to March 2018), Tyco Fire Products LP Facility, Marinette, Wisconsin

Description of Submittal	Submitted To	Date Submitted
Quarterly Progress Report	USEPA	January 16, 2018
Email Notification on Groundwater Treatment System Restart and Operation of Existing Extraction Wells	USEPA	January 23, 2018
PDP Focused Alternative Evaluation	USEPA	January 31, 2018
Request to Pursue Ordinance Removal	USEPA	February 20, 2018
Response EPA on Institutional Controls	USEPA	March 21, 2018
PFAS Sampling Plan and Sample Location Map	USEPA	March 2, 2018
PDP Water Levels	USEPA	March 5, 2018
Dye Test Alternative Pilot Work Plan - Extension Request - Tyco Fire Products LP site	USEPA	March 13, 2018
Response to Comments on PFAS Sampling Plan	USEPA	March 20, 2018
Revised Response to Comments on PFAS Sampling Plan	USEPA	March 21, 2018
Clarification to Response to Institutional Controls Removal	USEPA	March 21, 2018
DGT Pilot Test Work Plan	USEPA	March 31, 2017

Table 2

Correspondence from Agency
*Quarterly Progress Report (January
through March 2018) Tyco Fire Products
LP Facility, Marinette, Wisconsin*

Description of Correspondence	Submitted To	Date Submitted
12-20-2017 Meeting Summary	Tyco	January 9, 2018
Response to Institutional Controls Removal Request	Tyco	March 15, 2018
Revised Response to Comments on PFAS Sampling Plan	Tyco	March 28, 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
Environmental Field Projects

Attachments

- 1 GWCTS Operation Summary
- 2 DMRs for the GWCTS

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

Document Control No.: 20180416 US10.11014

Attachment 1
GWCTS Operation Summary

Groundwater Collection and Treatment System Operation

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

DATE: April 12, 2018

Operation of the groundwater collection and treatment system (GWCTS) occurring from January 1, 2018 through March 31, 2018 is summarized below:

- The GWCTS operated for 9 days in January, 7 days in February, and 17 days in March, for a total of 33 days.
- Approximately 116,700 gallons of reject water was produced during system operations and subsequently disposed of offsite.
- The precipitation recorded from the weather station in Marinette, Wisconsin was 3.0 inches of rain and 23.6 inches of snow. (<http://www.ncdc.noaa.gov/cdo-web/datasets/GHCND/stations/GHCND:USC00475091/detail>).
- An estimated total of 304,922 gallons was discharged to the Menominee River as effluent under WPDES permit.
- An estimated total of 405,686 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 Q1 2017 (1/01/2017-3/31/2017)	Gallons Run Q1 2018 (1/01/2016-3/31/2016)
EW-1	72,329	95,415
EW-2	1,256	134
EW-3	10,994	3,621
EW-4	15,302	3,614
EW-5	253,088	89,664
EW-6	389,537	107,783
EW-7	122,245	105,455
Total	864,751	405,686

Attachment 2
DMRs



eReport Certify - TYCO FIRE PROTECTION PRODUCTS LP

- 418909

Facility Name

TYCO FIRE PROTECTION PRODUCTS LP

Form Type

Wastewater Discharge Monitoring Long Report

DOC ID

388861

Reporting Period

12/1/2017 to 12/31/2017

Enter Certification Code

ialymenind

E-Mail was sent to

afleury@tycoint.com

Certify

Return To List

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 1/18/2018 for the period 12/1/2017 to 12/31/2017 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.

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 PROTECTION PRODUCTS LP

- 418909

Facility Name

TYCO FIRE PROTECTION PRODUCTS LP

Form Type

Wastewater Discharge Monitoring Long Report

DOC ID

388861

Reporting Period

12/1/2017 to 12/31/2017

Enter Certification Code

ialymenind

E-Mail was sent to
affleury@tycoint.com

[Return To List](#)

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

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

Facility Name: TYCO FIRE PROTECTION PRODUCTS LP
 Contact Address: One Stanton Street
 Marinette, WI 54143
 Facility Contact: Judith Rost, Sr Lab Tech
 Phone Number: (715) 735-7411
 Reporting Period: 12/01/2017 - 12/31/2017
 Form Due Date: 01/21/2018
 Permit Number: 0001040

Date Received:
 DOC: 388861
 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	0.141920		58	6.7	7.1
	2	0.076870		59	6.8	7.4
	3	0.087450		57	6.9	7.6
	4	0.209490		77	6.7	7.1
	5	0.157170		59	6.8	7.6
	6	0.157200		58	6.8	7.7
	7	0.162920		58	6.8	7.6
	8	0.133530		59	7.2	7.9
	9	0.081270		56	7.6	7.9
	10	0.064810		53	7.3	8.0
	11	0.161570		58	7.3	8.5
	12	0.174970		61	7.3	8.7
	13	0.169050		58	7.2	7.8
	14	0.168780		58	7.0	7.5
	15	0.082070		56	6.9	7.8
	16	0.001290		52	7.6	7.8
	17	0.058380		55	6.8	7.9
	18	0.162800		58	6.8	7.4
	19	0.174150		58	7.0	7.4
	20	0.140720		58	6.7	6.9
	21	0.015232		54	6.9	7.1
	22	0.078950		54	7.0	7.7
	23	0.006010		53	7.6	7.9
	24	0.003500		52	7.6	8.0
	25	0.015330		52	6.9	8.1
	26	0.153020		52	6.9	7.5
	27	0.152350		53	7.2	7.6
	28	0.149530		53	7.0	7.5
	29	0.053190		54	7.5	8.2
	30	0.017930		55	7.5	8.2
	31	0.009780		54	7.4	7.8

	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
Summary Values	Monthly Avg	0.10391071		56.516129032	7.087096774	7.716129032
	Monthly Total					
	Daily Max	0.20949		77	7.6	8.7
	Daily Min	0.00129		52	6.7	6.9
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					11 0
	Daily Min				4 0	
	Rolling 12 Month Avg					
QA/QC Information	LOD					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	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			0.21	250	27
	5					
	6					
	7					
	8					
	9					
	10					
	11			0.098	270	40
	12					
	13					
	14					
	15					
	16					
	17					
	18			0.11	220	19
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26			0.091	330	16
	27					
	28					
	29					
	30					
	31					

Sample ID	337		337		337		337		337		
	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		
Summary Values	Monthly Avg					0.12725		267.5		25.5	
	Monthly Total										
	Daily Max					0.21		330		40	
	Daily Min					0.091		220		16	
	Rolling 12 Month Avg					0.2					
Limit(s) in Effect	Monthly Avg										
	Monthly Total	446	0								
	Daily Max			0	0					680	0
	Daily Min										
	Rolling 12 Month Avg					1	0				
QA/QC Information	LOD					0.024				2.1	
	LOQ					0.05				5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification					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					
	2					
	3					
	4	0.04725	10	0.0175	<0.49	<3.0
	5					
	6					
	7					
	8					
	9					
	10					
	11	0.054	24	0.0324	0.51	
	12					
	13					
	14					
	15					
	16					
	17					
	18	0.02584	13	0.01768	<0.49	
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26	0.02048	17	0.02176	0.79	
	27					
	28					
	29					
	30					
	31					

	Sample Name	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		
Summary Values	Monthly Avg	0.0368925		16		0.022335		0.325	
	Monthly Total								
	Daily Max	0.054		24		0.0324		0.79	
	Daily Min	0.02048		10		0.0175		<0.49	
	Rolling 12 Month Avg								
Limit(s) in Effect	Monthly Avg								
	Monthly Total								
	Daily Max	12	0	69	0	0.98	0		
	Daily Min								
	Rolling 12 Month Avg								
QA/QC Information	LOD			1.7				0.49	
	LOQ			5				1	
	QC Exceedance	N		N		N		N	
	Lab Certification			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			0.019868	10.7	2.2
	2			0.010669	5.0	
	3					
	4	10		0.028489	3.2	1.7
	5			0.030982	2.8	
	6			0.030266	2.0	
	7			0.029925	2.1	
	8			0.018827	2.7	<1.4
	9			0.012597	2.7	
	10					
	11			0.031077	2.9	<1.4
	12			0.030264	2.1	
	13			0.027736	2.9	
	14			0.025513	3.8	
	15			0.014488	4.4	3.7
	16					
	17					
	18			0.024831	6.2	3.9
	19			0.029559	3.3	
	20			0.024191	2.8	
	21			0.017550	3.3	
	22			0.012362	3.2	2.5
	23					
	24					
	25					
	26			0.019797	2.8	2.2
	27			0.021656	1.7	
	28			0.022135	2.6	
	29			0.002319	6.5	
	30					
	31					

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	Monthly Avg						
Summary Values	Monthly Avg	10		0.022050045	3.622727273	2.025						
	Monthly Total											
	Daily Max	10		0.031077	10.7	3.9						
	Daily Min	10		0.002319	1.7	<1.4						
	Rolling 12 Month Avg											
Limit(s) in Effect	Monthly Avg				31	0	26	0				
	Monthly Total											
	Daily Max				60	0	52	0				
	Daily Min											
	Rolling 12 Month Avg											
QA/QC Information	LOD	30									1.6	
	LOQ	100									6.2	
	QC Exceedance	N	N	N	N	N						
	Lab Certification						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	15	53	
	2					
	3					
	4	<0.49	<2.2	19	53	
	5					<3.0
	6					
	7					
	8	<0.49	<2.2	16	61	
	9					
	10					
	11	<0.49	<2.2	7.8	47	
	12					
	13					
	14					
	15	<0.49	<2.2	14	34	
	16					
	17					
	18	<0.49	<2.2	10	49	
	19					
	20					
	21					
	22	0.49	<2.2	3.7	38	
	23					
	24					
	25					
	26	<0.49	<2.2	6.4	90	
	27					
	28					
	29					
	30					
	31					

	Sample Name	101		101		101		101		101			
		Description		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			
Summary Values	Monthly Avg	0.06125		0		11.4875		53.125		0			
	Monthly Total												
	Daily Max	0.49		<2.2		19		90		<3			
	Daily Min	<0.49		<2.2		3.7		34		<3			
	Rolling 12 Month Avg												
Limit(s) in Effect	Monthly Avg	260	0	1710	0	2380	0	1480	0	650	0		
	Monthly Total												
	Daily Max	690	0	2770	0	3980	0	2610	0	1200	0		
	Daily Min												
	Rolling 12 Month Avg												
QA/QC Information	LOD	0.49		2.2		1.5		3.6		3			
	LOQ	1		5		5		10		10			
	QC Exceedance	N		N		N		N		N			
	Lab Certification	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	2/WEEK	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1	10	<1.3	<1.1	6.8	7.4
	2				6.6	7.1
	3					
	4	10	<1.3	<1.1	7.0	7.7
	5				6.6	7.2
	6				6.8	7.7
	7				6.7	7.5
	8	9.4	<1.3	<1.1	6.1	8.8
	9				6.2	7.4
	10					
	11	8.4	<1.3	<1.1	7.3	8.1
	12				7.2	8.1
	13				7.5	8.1
	14				7.4	8.1
	15	10	<1.3	<1.1	6.9	8.0
	16					
	17					
	18	8.4	<1.3	<1.1	7.6	8.5
	19				7.1	8.0
	20				7.0	8.1
	21				7.0	8.5
	22	10	<1.3	<1.1	6.9	7.7
	23					
	24					
	25					
	26	13	<1.3	<1.1	6.6	7.4
	27				6.6	7.3
	28				6.8	7.7
	29				6.2	6.8
	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	
Summary Values	Monthly Avg	9.9		0		0		6.859090909		7.781818182	
	Monthly Total										
	Daily Max	13		<1.3		<1.1		7.6		8.8	
	Daily Min	8.4		<1.3		<1.1		6.1		6.8	
	Rolling 12 Month Avg										
Limit(s) in Effect	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										
QA/QC Information	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					

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

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

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	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
	Sample Type	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

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

	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					<0.20
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

Sample Point	151	152	153	154	155
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	0.012571			7.0	8.4
	2					
	3					
	4					
	5	0.007898	<1.0	59	6.1	8.3
	6					
	7	0.017525			6.1	8.9
	8	0.002179			7.0	8.4
	9					
	10					
	11					
	12	0.017484	<1.0	72	6.1	7.8
	13	0.012690			6.1	8.4
	14	0.003036			6.7	8.6
	15	0.002651			8.2	8.7
	16					
	17					
	18	0.011588	<1.0	1800	7.8	8.2
	19	0.012781			6.6	8.7
	20	0.014498			6.5	8.7
	21	0.013305			7.2	8.5
	22	0.012179			8.5	8.8
	23					
	24					
	25					
	26	0.011474	<1.0	2000	6.3	8.5
	27	0.012725			6.3	8.5
	28	0.015977			6.9	8.1
	29	0.003660			6.6	8.1
	30					
	31					

	Sample Type	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		
Summary Values	Monthly Avg	0.010836529	0	982.75	6.823529412	8.447058824	
	Monthly Total						
	Daily Max	0.017525	<1	2000	8.5	8.9	
	Daily Min	0.002179	<1	59	6.1	7.8	
	Rolling 12 Month Avg						
Limit(s) in Effect	Monthly Avg						
	Monthly Total						
	Daily Max			680	2	11	0
	Daily Min				4	0	
	Rolling 12 Month Avg						
QA/QC Information	LOD			2.1			
	LOQ			5			
	QC Exceedance	N	N	Y	N	N	
	Lab Certification		438039470	999580010			

	Sample Point	003	003
	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
	Sample Type	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	DAILY
Sample Results	Day 1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
	15		
	16		
	17		
	18		
	19		
	20		
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		

	Sample Name	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	
Summary Values	Monthly Avg				
	Monthly Total				
	Daily Max				
	Daily Min				
	Rolling 12 Month Avg				
Limit(s) in Effect	Monthly Avg				
	Monthly Total	446	0		
	Daily Max			0	0
	Daily Min				
	Rolling 12 Month Avg				
QA/QC Information	LOD				
	LOQ				
	QC Exceedance	N		N	
	Lab Certification				

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

For the last two weeks of sampling on OF003 the Arsenic levels were high and the plant has been shut down since we received the results.
ULL Mercury samples for OF001 and for SP703 were broken in shipping so, there were no results.

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: TYCO FIRE PROTECTION PRODUCTS LP
 Contact Address: One Stanton Street
 Marinette, WI 54143
 Facility Contact: Judith Rost, Sr Lab Tech
 Phone Number: 715-735-7411
 Reporting Period: 01/01/2018 - 01/31/2018
 Form Due Date: 02/21/2018
 Permit Number: 0001040

Date Received:
 DOC: 394466
 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	0.02177		70	7.3	7.7
	2	0.16933		55	7.2	7.8
	3	0.16386		52	7.3	7.6
	4	0.13630		50	7.0	7.7
	5	0.13984		53	7.0	7.6
	6	0.14175		50	7.0	7.5
	7	0.13498		50	7.4	7.8
	8	0.14928		54	6.9	7.4
	9	0.13948		55	6.8	7.4
	10	0.13802		54	6.7	7.4
	11	0.14896		53	6.8	7.2
	12	0.12986		50	7.0	7.5
	13	0.07255		48	7.4	7.7
	14	0.29067		48	7.3	7.8
	15	0.06663		50	7.6	8.1
	16	0.15112		63	7.3	8.0
	17	0.15054		51	7.3	7.6
	18	0.15418		54	7.1	7.4
	19	0.14322		64	7.1	7.5
	20	0.08185		53	7.2	7.5
	21	0.05287		54	7.2	7.6
	22	0.14464		53	6.8	7.4
	23	0.12878		55	7.1	7.4
	24	0.13619		56	6.9	7.4
	25	0.13584		54	6.9	7.4
	26	0.15185	6.6	54	6.7	7.4
	27	0.09002		54	6.9	7.4
	28	0.05167		52	7.3	8.2
	29	0.14895		53	6.9	7.7
	30	0.15058		54	6.8	7.2
	31	0.15832		54	6.9	7.1

	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	
Summary Values	Monthly Avg	0.131416129		6.6		53.870967742		7.067741935		7.561290323	
	Monthly Total										
	Daily Max	0.29067		6.6		70		7.6		8.2	
	Daily Min	0.02177		6.6		48		6.7		7.1	
	Rolling 12 Month Avg										
Limit(s) in Effect	Monthly Avg										
	Monthly Total										
	Daily Max									11	0
	Daily Min							4	0		
	Rolling 12 Month Avg										
QA/QC Information	LOD			0.2							
	LOQ			0.5							
	QC Exceedance	N		N		N		N		N	
	Lab Certification			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			0.090	310	21
	4					
	5					
	6					
	7					
	8			0.24	200	14
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16			0.14	320	12
	17					
	18					
	19					
	20					
	21					
	22			0.084	280	23
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	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	
Summary Values	Monthly Avg					0.1385		277.5	
	Monthly Total								
	Daily Max					0.24		320	
	Daily Min					0.084		200	
	Rolling 12 Month Avg					0.2			
Limit(s) in Effect	Monthly Avg								
	Monthly Total	446	0						
	Daily Max			0	0			680	0
	Daily Min								
	Rolling 12 Month Avg					1	0		
QA/QC Information	LOD					0.024		2.1	
	LOQ					0.05		5	
	QC Exceedance	N		N		N		N	
	Lab Certification					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					
	2					
	3	0.02877	10	0.0137	<0.49	<3.0
	4					
	5					
	6					
	7					
	8	0.01736	12	0.01488	<0.49	
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16	0.01512	13	0.01638	<0.49	
	17					
	18					
	19					
	20					
	21					
	22	0.02783	12	0.01452	<0.49	
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	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	
Summary Values	Monthly Avg	0.02227		11.75		0.01487		0	
	Monthly Total								
	Daily Max	0.02877		13		0.01638		<0.49	
	Daily Min	0.01512		10		0.0137		<0.49	
	Rolling 12 Month Avg								
Limit(s) in Effect	Monthly Avg								
	Monthly Total								
	Daily Max	12	0	69	0	0.98	0		
	Daily Min								
	Rolling 12 Month Avg								
QA/QC Information	LOD			1.7				0.49	
	LOQ			5				1	
	QC Exceedance	N		N		N		N	
	Lab Certification			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			0.022261	3.0	
	3	20		0.034098	2.7	3.6
	4			0.013379	3.1	4.6
	5			0.020608	3.2	
	6			0.011133	3.0	
	7			0.005005	8.6	
	8			0.031945	2.6	1.4
	9			0.025900	2.8	2.1
	10			0.014750	5.2	
	11			0.019784	3.8	
	12			0.016856	4.0	
	13			0.004995	7.6	
	14					
	15					
	16			0.027029	3.9	2.0
	17			0.030076	1.9	1.6
	18			0.027021	1.8	
	19			0.028049	2.0	
	20			0.018275	2.3	
	21					
	22			0.025681	5.0	2.1
	23			0.020975	2.6	1.9
	24			0.018835	2.0	
	25			0.019768	2.3	
	26		1.2	0.018344	3.5	
	27			0.015121	4.6	
	28					
	29			0.025735	2.0	
	30			0.030039	1.4	
	31			0.018213	5.0	

	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		
Summary Values	Monthly Avg	20		1.2		0.020918269		3.457692308		
	Monthly Total									
	Daily Max	20		1.2		0.034098		8.6		
	Daily Min	20		1.2		0.004995		1.4		
	Rolling 12 Month Avg									
Limit(s) in Effect	Monthly Avg						31	0	26	0
	Monthly Total									
	Daily Max						60	0	52	0
	Daily Min									
	Rolling 12 Month Avg									
QA/QC Information	LOD	30		0.2				1.3		
	LOQ	100		0.5				5.1		
	QC Exceedance	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					
	2	<0.49	<2.2	5.3	93	
	3	<0.49	<2.2	4.5	48	<3.0
	4					
	5					
	6					
	7					
	8	<0.49	<2.2	11	33	
	9	<0.49	<2.2	9.9	28	
	10					
	11					
	12					
	13					
	14					
	15					
	16	<0.49	<2.2	12	40	
	17	<0.49	<2.2	11	30	
	18					
	19					
	20					
	21					
	22	<0.49	<2.2	7.1	49	
	23	<0.49	<2.2	5.8	35	
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	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	
Summary Values	Monthly Avg	0		0		8.325		44.5		0	
	Monthly Total										
	Daily Max	<0.49		<2.2		12		93		<3	
	Daily Min	<0.49		<2.2		4.5		28		<3	
	Rolling 12 Month Avg										
Limit(s) in Effect	Monthly Avg	260	0	1710	0	2380	0	1480	0	650	0
	Monthly Total										
	Daily Max	690	0	2770	0	3980	0	2610	0	1200	0
	Daily Min										
	Rolling 12 Month Avg										
QA/QC Information	LOD	0.49		2.2		1.5		3.6		3	
	LOQ	1		5		5		10		10	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	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	2/WEEK	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1					
	2	9.1	1.4	<1.1	7.0	7.8
	3	5.2	<1.3	<1.1	7.3	7.5
	4				7.1	7.7
	5				7.0	7.5
	6				6.6	7.4
	7				6.7	8.0
	8	7.1	<1.3	<1.1	6.7	7.8
	9	9.1	<1.3	<1.1	6.7	7.5
	10				6.3	7.5
	11				7.1	7.4
	12				6.7	7.4
	13				6.8	7.8
	14					
	15					
	16	13	<1.3	<1.1	7.3	8.1
	17	6.9	<1.3	<1.1	7.1	7.6
	18				6.6	7.3
	19				6.2	7.4
	20				6.9	7.2
	21					
	22	6.6	<1.3	<1.1	7.0	7.8
	23	5.1	<1.3	<1.1	6.5	7.4
	24				6.5	7.1
	25				6.6	7.4
	26				7.1	7.5
	27				6.7	7.2
	28					
	29				7.4	7.8
	30				6.8	7.6
	31				6.7	7.5

	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	
Summary Values	Monthly Avg	7.7625		0.175		0		6.823076923		7.546153846	
	Monthly Total										
	Daily Max	13		1.4		<1.1		7.4		8.1	
	Daily Min	5.1		<1.3		<1.1		6.2		7.1	
	Rolling 12 Month Avg										
Limit(s) in Effect	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										
QA/QC Information	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					

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

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

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	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
	Sample Type	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101	101	101	101	101
	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
Summary Values	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
QA/QC Information	LOD					
	LOQ					
	QC Exceedance					
	Lab Certification					

	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					
	24					
	25					
	26					<0.20
	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	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						
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						
	11						
	12						
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						
	21						
	22						
	23		0.014642	<1.0	550	6.6	6.8
	24		0.008443			6.8	7.1
	25		0.001556			6.4	6.8
	26		0.014550			7.3	8.4
	27						
	28						
	29		0.005540			8.2	8.5
	30		0.011921			6.0	6.4
	31		0.007598			6.0	7.0

	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	
Summary Values	Monthly Avg	0.009178571	0	550	6.757142857	7.285714286	
	Monthly Total						
	Daily Max	0.014642	<1	550	8.2	8.5	
	Daily Min	0.001556	<1	550	6	6.4	
	Rolling 12 Month Avg						
Limit(s) in Effect	Monthly Avg						
	Monthly Total						
	Daily Max			680	0	11	0
	Daily Min				4	0	
	Rolling 12 Month Avg						
QA/QC Information	LOD			2.1			
	LOQ			5			
	QC Exceedance	N	N	N	N	N	
	Lab Certification		438039470	999580010			

	Sample Point	003	003
	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
	Sample Type	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	DAILY
Sample Results	Day 1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
	15		
	16		
	17		
	18		
	19		
	20		
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		

	Sample Point	003		003	
	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	
Summary Values	Monthly Avg				
	Monthly Total				
	Daily Max				
	Daily Min				
	Rolling 12 Month Avg				
Limit(s) in Effect	Monthly Avg				
	Monthly Total	446	0		
	Daily Max			0	0
	Daily Min				
	Rolling 12 Month Avg				
QA/QC Information	LOD				
	LOQ				
	QC Exceedance	N		N	
	Lab Certification				

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

Due to system problem which occurred in December the Groundwater system was down the whole month of January except the last week so, that is why there was only one sample taken for testing. We were waiting for new equipment and now all is good.

Laboratory Quality Control Comments

Submitted by afleury16 on 02/15/2018 10:09:10 AM



eReport Submit - TYCO FIRE PROTECTION PRODUCTS

LP - 422842

Facility Name

TYCO FIRE PROTECTION PRODUCTS LP

Form Type

Wastewater Discharge Monitoring Long Report

DOC ID

394467

Reporting Period

2/1/2018 to 2/28/2018

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 PROTECTION PRODUCTS LP

- 422842

Facility Name

TYCO FIRE PROTECTION PRODUCTS LP

Form Type

Wastewater Discharge Monitoring Long Report

DOC ID

394467

Reporting Period

2/1/2018 to 2/28/2018

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 3/20/2018 for the period 2/1/2018 to 2/28/2018 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.

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 PROTECTION PRODUCTS LP

- 422842

Facility Name

TYCO FIRE PROTECTION PRODUCTS LP

Form Type

Wastewater Discharge Monitoring Long Report

DOC ID

394467

Reporting Period

2/1/2018 to 2/28/2018

Enter Certification Code

E-Mail was sent to

afleury@tycointl.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 3/20/2018 for the period 2/1/2018 to 2/28/2018 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.

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](#)

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: TYCO FIRE PROTECTION PRODUCTS LP
 Contact Address: One Stanton Street
 Marinette, WI 54143
 Facility Contact: Judith Rost, Sr Lab Tech
 Phone Number: 715-735-7411
 Reporting Period: 02/01/2018 - 02/28/2018
 Form Due Date: 03/21/2018
 Permit Number: 0001040

Date Received:
 DOC: 394467
 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	0.14438		53	7.0	7.5
	2	0.14796		62	7.0	7.6
	3	0.07554		51	7.0	7.6
	4	0.06795		47	7.4	8.5
	5	0.13367		52	7.3	7.7
	6	0.13846		52	6.9	7.6
	7	0.12275		55	7.1	7.5
	8	0.12928		55	6.9	7.2
	9	0.13235		55	6.8	7.1
	10	0.06850		51	7.1	7.6
	11	0.02352		50	7.2	8.2
	12	0.13520		55	7.1	7.5
	13	0.13554		53	7.0	7.4
	14	0.14143		73	7.0	7.1
	15	0.13211		55	7.0	7.6
	16	0.11935		52	7.2	7.6
	17	0.01406		53	7.5	8.0
	18	0.09426		55	7.3	8.5
	19	0.16110		53	6.9	7.3
	20	0.15347		56	6.8	7.2
	21	0.13892		56	6.8	7.1
	22	0.16585		55	6.8	7.0
	23	0.14200		52	6.6	7.1
	24	0.06360		50	7.1	7.8
	25	0.09213		51	6.8	7.2
	26	0.22178		53	6.9	7.2
	27	0.17855	6.6	53	6.8	7.2
	28	0.14068		55	6.5	7.6
	29					
	30					
	31					

	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
Summary Values	Monthly Avg	0.1219425	6.6	54.035714286	6.992857143	7.517857143
	Monthly Total					
	Daily Max	0.22178	6.6	73	7.5	8.5
	Daily Min	0.01406	6.6	47	6.5	7
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					11 0
	Daily Min				4 0	
	Rolling 12 Month Avg					
QA/QC Information	LOD		0.2			
	LOQ		0.5			
	QC Exceedance	N	N	N	N	N
	Lab Certification		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			0.11	260	26
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13			0.16	220	7.4
	14					
	15					
	16					
	17					
	18					
	19			0.13	260	19
	20					
	21					
	22			0.19	22	16
	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	
Summary Values	Monthly Avg					0.1475		190.5		17.1	
	Monthly Total										
	Daily Max					0.19		260		26	
	Daily Min					0.11		22		7.4	
	Rolling 12 Month Avg					0.2					
Limit(s) in Effect	Monthly Avg										
	Monthly Total	446	0								
	Daily Max			0	0					680	0
	Daily Min										
	Rolling 12 Month Avg					1	0				
QA/QC Information	LOD					0.024				2.1	
	LOQ					0.05				5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification					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	0.0312	13	0.0156	<0.49	
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13	0.008362	15	0.01695	<0.49	<3.0
	14					
	15					
	16					
	17					
	18					
	19	0.02546	16	0.02144	<0.49	
	20					
	21					
	22	0.02208	13	0.01794	<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	
Summary Values	Monthly Avg	0.0217755		14.25		0.0179825		0		0	
	Monthly Total										
	Daily Max	0.0312		16		0.02144		<0.49		<3	
	Daily Min	0.008362		13		0.0156		<0.49		<3	
	Rolling 12 Month Avg										
Limit(s) in Effect	Monthly Avg										
	Monthly Total										
	Daily Max	12	0	69	0	0.98	0				
	Daily Min										
	Rolling 12 Month Avg										
QA/QC Information	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	2WEEK
Sample Results	Day 1			0.025360	1.6	2.0
	2			0.023789	2.0	<1.3
	3			0.008067	16.3	
	4					
	5			0.022838	2.4	
	6			0.010352	3.4	
	7			0.017502	3.4	
	8			0.011776	5.3	
	9			0.015940	7.0	<1.7
	10			0.006456	5.7	
	11					
	12			0.015745	4.9	2.0
	13			0.019374	3.8	
	14			0.015072	4.7	
	15			0.016174	7.1	1.5
	16			0.006451	16.8	
	17			0.005213	17.0	
	18					
	19	30		0.024262	3.2	1.7
	20			0.024890	2.1	
	21			0.022593	2.8	
	22			0.015035	3.0	2.4
	23			0.016023	3.6	2.2
	24			0.003135	9.5	
	25					
	26			0.017558	3.5	
	27		1.1	0.016128	4.0	
	28			0.013140	2.7	
	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		
Summary Values	Monthly Avg	30	1.1	0.015536375	5.658333333	1.475		
	Monthly Total							
	Daily Max	30	1.1	0.02536	17	2.4		
	Daily Min	30	1.1	0.003135	1.6	<1.3		
	Rolling 12 Month Avg							
Limit(s) in Effect	Monthly Avg				31	0	26	0
	Monthly Total							
	Daily Max				60	0	52	0
	Daily Min							
	Rolling 12 Month Avg							
QA/QC Information	LOD	30	0.2			1.4		
	LOQ	100	0.5			5.4		
	QC Exceedance	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	9.1	33	
	2	<0.49	<2.2	8.5	29	
	3					
	4					
	5					
	6					
	7					3.0
	8	<0.49	<2.2	22	66	
	9	<0.49	<2.2	12	100	
	10					
	11					
	12					
	13					
	14					
	15	<0.49	<2.2	9.0	54	
	16	<0.49	<2.2	7.4	53	
	17					
	18					
	19					
	20					
	21					
	22	<0.49	<2.2	8.7	55	
	23	<0.49	<2.2	12	57	
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	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	
Summary Values	Monthly Avg	0		0		11.0875		55.875		3	
	Monthly Total										
	Daily Max	<0.49		<2.2		22		100		3	
	Daily Min	<0.49		<2.2		7.4		29		3	
	Rolling 12 Month Avg										
Limit(s) in Effect	Monthly Avg	260	0	1710	0	2380	0	1480	0	650	0
	Monthly Total										
	Daily Max	690	0	2770	0	3980	0	2610	0	1200	0
	Daily Min										
	Rolling 12 Month Avg										
QA/QC Information	LOD	0.49		2.2		1.5		3.6		3	
	LOQ	1		5		5		10		10	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	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	2/WEEK	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1	12	<1.3	<1.1	6.6	7.5
	2	4.4	<1.3	<1.1	6.7	7.5
	3				6.9	7.0
	4					
	5				7.1	7.6
	6				7.0	7.8
	7				7.2	7.7
	8	10	<1.3	<1.1	7.3	7.6
	9	7.8	<1.3	<1.1	8.2	8.8
	10				6.7	7.3
	11					
	12				6.8	7.3
	13				7.1	7.6
	14				6.9	7.4
	15	5.7	<1.3	<1.1	7.0	7.4
	16	12	<1.3	<1.1	6.8	7.3
	17				6.8	7.1
	18					
	19				6.9	7.9
	20				6.8	7.4
	21				6.9	7.3
	22	6.1	<1.3	<1.1	6.9	7.5
	23	5.5	<1.3	<1.1	6.5	7.8
	24				7.8	8.6
	25					
	26				6.8	7.6
	27				6.7	7.5
	28				6.6	7.5
	29					
	30					
	31					

	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	
Summary Values	Monthly Avg	7.9375		0		0		6.958333333		7.583333333	
	Monthly Total										
	Daily Max	12		<1.3		<1.1		8.2		8.8	
	Daily Min	4.4		<1.3		<1.1		6.5		7	
	Rolling 12 Month Avg										
Limit(s) in Effect	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										
QA/QC Information	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					

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

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

	Sample Point	101	101	101	101	101
	Description	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent	Metal Finishing Effluent
	Parameter	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
	Sample Type	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP	24 HR COMP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	101	101	101	101	101
	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
Summary Values	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
Limit(s) in Effect	Monthly Avg					
	Monthly Total					
	Daily Max					
	Daily Min					
	Rolling 12 Month Avg					
QA/QC Information	LOD					
	LOQ					
	QC Exceedance					
	Lab Certification					

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					
	24					
	25					
	26					
	27					<0.20
	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	0.008335			6.0	7.0
	2	0.012136			6.9	8.6
	3					
	4					
	5					
	6	0.009190	<1.0	260	7.4	8.8
	7	0.008411			7.4	8.6
	8					
	9	0.008134			6.8	8.6
	10					
	11					
	12					
	13	0.015508	<1.0	130	7.8	8.8
	14	0.004812			7.8	8.7
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	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	
Summary Values	Monthly Avg	0.009503714		0		195		7.157142857		8.442857143	
	Monthly Total										
	Daily Max	0.015508		<1		260		7.8		8.8	
	Daily Min	0.004812		<1		130		6		7	
	Rolling 12 Month Avg										
Limit(s) in Effect	Monthly Avg										
	Monthly Total										
	Daily Max					680	0			11	0
	Daily Min							4	0		
	Rolling 12 Month Avg										
QA/QC Information	LOD					2.1					
	LOQ					5					
	QC Exceedance	N		N		N		N		N	
	Lab Certification			438039470		999580010					

	Sample Point	003	003
	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
	Sample Type	CONTINUOUS	CONTINUOUS
	Frequency	DAILY	DAILY
Sample Results	Day 1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
	15		
	16		
	17		
	18		
	19		
	20		
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		

	Sample Point	003		003	
	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	
Summary Values	Monthly Avg				
	Monthly Total				
	Daily Max				
	Daily Min				
	Rolling 12 Month Avg				
Limit(s) in Effect	Monthly Avg				
	Monthly Total	446	0		
	Daily Max			0	0
	Daily Min				
	Rolling 12 Month Avg				
QA/QC Information	LOD				
	LOQ				
	QC Exceedance	N		N	
	Lab Certification				

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 last two weeks of sampling were not taken because the Groundwater system was down for maintenance issues so, there is only two samples for TSS and two only for Arsenic for OF003.

Laboratory Quality Control Comments