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**Subject** Well Installation and Repair Field Activities, June 6 to June 15, 2019  
**Project Name** Tyco Fire Products LP Site, Marinette, Wisconsin  
**Attention** Tyco Fire Products LP  
**From** Jacobs Engineering Group Inc.  
**Date** January 2020  
**Copies to** File  
**Document Control No.** D3235600.270

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## 1. Introduction

On behalf of Tyco Fire Products LP (Tyco), Jacobs Engineering Group Inc. (Jacobs) has prepared this memorandum to document the monitoring well installation and repair activities at the Tyco facility at One Stanton Street, Marinette, Wisconsin (site; Figure 1). The field activities were completed in accordance with the *Addendum to 2015 Barrier Wall Groundwater Monitoring Plan Update* (Jacobs 2019a) that was finalized on June 24, 2019, and approved by the U.S. Environmental Protection Agency (USEPA) on September 4, 2019.<sup>1</sup> The addendum provided enhancements to the hydraulic monitoring program for assessing the vertical barrier wall that were agreed to during discussions between Tyco, USEPA, and the Wisconsin Department of Natural Resources, as discussed in the addendum.

## 2. Field Activities

Fieldwork was conducted at the site between June 6 and June 15, 2019. The field activities included:

- Drilling and collecting continuous core soil samples for soil characterization at six locations using rotary sonic drilling techniques.
- Installing and developing one bedrock replacement well (MW118D-R) as a replacement for MW118D, which was damaged and abandoned in 2018.
- Installing and developing five shallow overburden monitoring wells (MW107S, MW121S, MW122S, MW123S, and MW124S) in the Main Plant to provide an enhanced monitoring well network along the vertical barrier wall near the Menominee River, with a final average spacing of approximately 175 feet and no distance greater than 200 feet between shallow wells along the shoreline barrier wall.
- Repairing two existing monitoring well surface completions (MW118S and MW118M), which were damaged by a snowplow in winter 2018-2019.
- Converting MW068S from a flush-mount well to a stickup.

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<sup>1</sup> There were no changes regarding the well locations between the draft and final versions of the addendum.

- Installing temporary well points and sampling groundwater at two locations. Samples were collected near former monitoring well locations MW008S and TW-2 for volatile organic compounds to aid in the ongoing vapor intrusion assessment.

On August 22, 2019, newly installed monitoring and repaired wells were surveyed following the installation and repair. Photographic documentation of field activities is included as Attachment 1.

### 3. Utility Locates

Walker-Hill Environmental of Foxworth, Mississippi was contracted by Jacobs to complete the drilling, well installation, borehole abandonment, temporary well point installation, and well repair activities. Walker-Hill Environmental was responsible for obtaining underground utility clearance for the proposed drilling locations, which included notifying Diggers Hotline: Wisconsin's One-Call Center before starting construction, notifying private and local utility owners, and consulting with the utility companies.

Coordination and review of proposed locations with Tyco was completed, and a third-party utility locate provider was used to clear each boring location before boring advancement. For the monitoring wells near the barrier wall, ground penetrating radar and a metal detector were employed to help locate buried sheet pile tie-back structures and other obstructions known to be in the area. In addition, all locations were hand augered to an approximate depth of 5 feet before drilling.

### 4. Monitoring Well Replacement, Installations, and Development

#### 4.1 Bedrock Monitoring Well Replacement

One replacement bedrock monitoring well (MW118D-R) was installed in the Main Plant area (Figure 2), and borings were advanced using a rotary sonic drilling rig. Soil was continuously collected and logged by a Jacobs geologist down to the bedrock surface. Soil descriptions (grain size, color, moisture content, relative density, consistency, soil structure, and other relevant information) were recorded in accordance with United Soil Classification System and ASTM D2488.

Once the boring was advanced to a minimum depth of 2 feet below the bedrock surface, a 6-inch-diameter-steel casing was set and grouted (using site-specific grout mixtures) across the thickness of unconsolidated materials to isolate soil and shallow groundwater from the bedrock aquifer.<sup>2</sup> The grout was installed using a rubber plug, which pushed grout down and out around the base of the surface casing to seal off the overlying unconsolidated deposits. The seal was allowed to cure for 24 hours, the rubber seal was drilled out, and the seal was tested by filling the casing with water and monitoring the level of the water over approximately 24 hours to verify the seal was watertight.

Following an initial drop in water levels during the first 2 hours, the seal held and there was no water loss from the casing. A 4-inch-diameter bedrock boring was then drilled through the cemented casing to approximately 53 feet below ground surface (bgs). Rock cores were collected using a rotary sonic drill rig and logged as part of the installation. MW118D-R was installed within the inner casing as a 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) riser with a 5-foot-long 10 slot PVC screen and 6-inch sump. The well screen was set to span an interval of 47 to 52 feet bgs. A sand filter pack (Global #7 sand) was installed 2 feet above the top of the screen, and 2 feet of a finer transition sand (Global #8 sand) was installed above the filter pack to approximately 43 feet bgs. The site-specific grout mixture was placed above transition sand.

The well was completed with a stickup cover and a compression cap to prevent damage from traffic and infiltration of surface water. Following a grout curing period of at least 24 hours, MW-118D-R was developed in conjunction with other newly installed monitoring wells as described below. Attachment 2

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<sup>2</sup> The required mix design for the site-specific grout is one bag (94 pounds) of Type II Portland cement, 4.5 gallons water, and 2 cubic feet of fine-grained sand.

contains the soil boring log, and Table 1 provides final construction details for MW118D-R. Attachment 3 contains the bedrock monitoring well construction log, and Attachment 4 contains a copy of the well development log.

#### **4.2 Shallow Monitoring Well Installations**

Five shallow depth monitoring wells (MW107S, MW121S, MW122S, MW123S, and MW124S) were installed. Borings at each location were advanced within the unconsolidated deposits to a depth of at least 15.5 feet bgs using the same drilling and logging approach as described for the unconsolidated deposits above for MW118D-R. Borings for MW107S, MW123S, and MW124S were each drilled to 17 feet bgs. Screens for shallow wells were placed 5 to 15 feet bgs in the fill and alluvium. Each monitoring well was installed with a 2-inch-diameter Schedule 40 PVC riser with a 10-foot-long slotted PVC screen and 6-inch sump. The sand filter pack for each monitoring well was installed from the base of the borehole to 2 feet above the top of the screen (Table 1). A 0.5-foot-thick layer of finer transition sand (Global #8 sand) was installed above the filter pack to 2.5 feet bgs. The site-specific grout mixture was placed above the sand filter pack. Attachment 2 contains the soil boring logs, Table 1 provides final construction details for each monitoring well, and Attachment 3 contains copies of the monitoring well construction logs.

#### **4.3 Monitoring Well Development**

Following well installation, the wells were developed between June 12 and June 15, 2019 by manually surging the well screen with the pump followed by continuous pumping using a submersible pump. To enhance the well's connection with the adjacent formation, each well was surged and pumped at various intervals across the screen length to remove fines from the filter pack and screen.

Development was initiated a minimum of 24 hours after installation and was considered complete when groundwater was running clear and turbidity levels were deemed acceptable by Jacobs's field oversight support. The development logs are provided in Attachment 4.

Well development was performed in accordance with Wisconsin Department of Natural Resources NR 141 requirements. Development water was containerized in a 300-gallon polyethylene tank and transported to the onsite staging area to be transferred to the onsite groundwater collection and treatment system or was disposed of offsite with the pump down program groundwater.

#### **4.4 Well Repairs**

The following well repairs were performed:

- MW118S: 2-inch well casing and protective casing was repaired.
- MW118M: 2-inch well casing and protective casing was repaired.
- MW068S: Converted from a flush-mount completion to a stickup. This included extending the 2-inch well casing, replacing the protective casing, replacing the concrete pad, and installing protective bollards.

A summary of repairs and dates completed is provided in Table 1.

### **5. Surveying**

On August 22, 2019, McMahon Associates, Inc, a Wisconsin-certified surveyor, of Neenah, Wisconsin, surveyed the top of casing elevations (in feet above mean sea level in Wisconsin State Plane Coordinate System North American Vertical Datum 1988) of the newly installed monitoring wells, repaired staff gauge (damaged in late June and repaired in early July 2019), and wells with repairs where casing elevations were altered. Updated survey information is included in Table 1. The survey information will be used to plot the monitoring wells on site figures and for use in groundwater elevation evaluations in the future.

## 6. Temporary Well Point Groundwater Sampling

The driller advanced two soil borings (GW008S and GW-TW02<sup>3</sup>) to facilitate collecting groundwater samples. Groundwater samples were collected from a pre-pack screen placed in each boring. A summary of the boring locations and sampled depths is included in Table 2. Samples were collected for Appendix IX volatile organic compounds. Sampling data was provided in the *Vapor Intrusion Assessment and Work Plan* dated September 27, 2019 (Jacobs 2019b) and a summary will also be provided in the 2019 annual report.

Following collection of the groundwater samples, soil borings were abandoned per Wisconsin Department of Natural Resources Administrative Code (NR 811, NR 812, and NR 141). Attachment 5 contains the borehole abandonment logs for the soil borings that were abandoned.

## 7. References

Jacobs Engineering Group Inc. (Jacobs). 2019a. *Addendum to 2015 Barrier Wall Groundwater Monitoring Plan Update*. June 24.

Jacobs Engineering Group Inc. (Jacobs). 2019b. *Vapor Intrusion Assessment and Work Plan*. September 27.

U.S. Environmental Protection Agency (USEPA). 2009. *Resource Conservation and Recovery Act Administrative Order on Consent, Ansol, Incorporated*. USEPA Docket No. RCRA -05-2009- 0007542-S-02-001. February 26.

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<sup>3</sup> The temporary well point groundwater grab sample locations GW008S and GW-TW02 are stepped out from the abandoned monitoring well locations MW008S and TW-2 and are named because of their proximity to those abandoned wells.

Tables

**Table 1. 2019 Well Installation Information**

Tyco Fire Products LP Facility, Marinette, Wisconsin

Location ID	Area	Northing <sup>a</sup>	Easting <sup>a</sup>	Top of Casing Elevation <sup>b</sup>	Top of Protective Cover Elevation <sup>b</sup>	Ground Surface Elevation <sup>b</sup>	Soil Conditions Logged	Installation Start Date	Installation Completion Date	Boring Depth (feet bgs)	Bottom of Sand Pack (feet bgs)	Top of Sand Pack (feet bgs)	Bottom of Well Screen (feet bgs)	Top of Well Screen (feet bgs)	Well Screen Length** (feet )	Development Date	Flush Mount or Stick Up	Surface	Comments
MW068S	Main Plant	470207.692	2584825.714	586.34	586.60	583.29	-	6/14/2019*	6/15/2019*	-	-	-	-	-	-	-	Stick-up	Concrete Pad	Converted from flush-mount to stickup
MW107S	Main Plant	470360.286	2584936.501	585.51	585.72	583.04	x	6/9/2019	6/9/2019	17	17	3	15	5	10	6/13/2019	Stick-up	Concrete Pad	
MW118S	Main Plant	470465.376	2584808.44	586.02	586.11	583.22	-	6/14/2019*	6/14/2019*	-	-	-	-	-	-	-	Stick-up	Concrete Pad	Extend 2-inch well casing and add new protective cover
MW118M	Main Plant	470466.938	2584803.916	585.77	586.05	583.25	-	6/14/2019*	6/14/2019*	-	-	-	-	-	-	-	Stick-up	Concrete Pad	Extend 2-inch well casing and add new protective cover
MW118D-R	Main Plant	470462.053	2584806.978	585.97	585.94	583.16	x	6/7/2019	6/11/2019	53	53	45	52	47	5	6/15/2019	Stick-up	Concrete Pad	
MW121S	Main Plant	470581.935	2584464.270	585.64	585.91	583.06	x	6/13/2019	6/13/2019	15.5	15.5	3	15	5	10	6/14/2019	Stick-up	Concrete Pad	
MW122S	Main Plant	470515.58	2584652.461	585.55	585.87	582.74	x	6/13/2019	6/13/2019	15.5	15.5	3	15	5	10	6/14/2019	Stick-up	Concrete Pad	
MW123S	Main Plant	470172.224	2584921.822	586.11	586.33	583.73	x	6/8/2019	6/9/2019	17	17	3	15	5	10	6/12/2019	Stick-up	Concrete Pad	
MW124S	Main Plant	469893.405	2584986.320	585.47	585.68	583.07	x	6/8/2019	6/8/2019	17	17	3	15	5	10	6/12/2019	Stick-up	Concrete Pad	

Notes:

\* Dates represent repair start and repair completion, respectively

\*\* All wells were constructed of 2" Schedule 40 PVC with 10-slot PVC wells screens and filter packs consisting of Global #7 sand

- = not applicable

bgs = below ground surface

<sup>a</sup> Wisconsin State Plane Coordinates, Central Zone, US Survey Feet

<sup>b</sup> Wisconsin State Plan Coordinates, North American Vertical Datum 1988 (NAVD88), elevation in feet above mean sea level

**Table 2. 2019 Temporary Well Point Groundwater Sampling Table**

*Tyco Fire Products LP Facility, Marinette, Wisconsin*

Location ID	Area	Latitude (N)	Longitude (W)	Sample Date	Sample Interval Depth (feet bgs)	Sample Analyses	Date Borehole Abandoned*
GW008S**	Main Plant	470136.3261	2584730.502	6/9/2019	5-7	VOCs Appendix IX	6/9/2019
GW-TW02**	Main Plant	469886.9892	2584860.958	6/12/2019	3-5	VOCs Appendix IX	6/12/2019

Notes:

NA - not applicable

bgs - below ground surface

\*Soil borings were abandoned by filling with site-specific grout mix and wells were abandoned in accordance with Wisconsin Code NR 141 requirements




\*\* The temporary well point groundwater grab sample locations GW008S and GW-TW02 are stepped out from the abandoned monitoring well locations MW008S and TW-2 and are named because of their proximity to those abandoned wells.

Figures

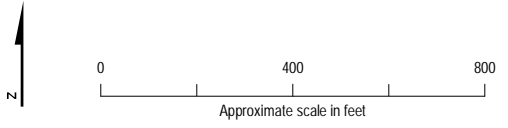




**LEGEND**

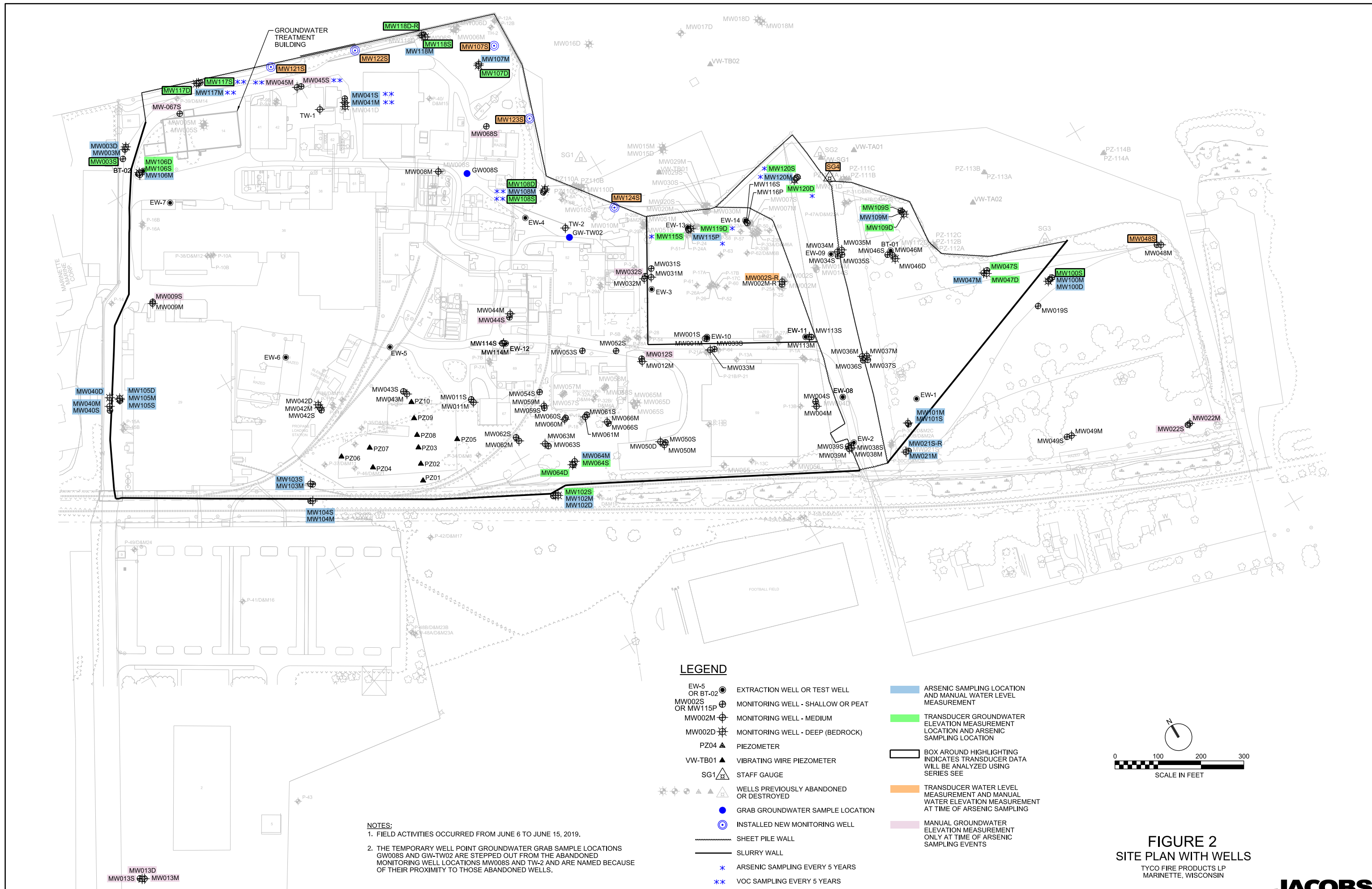
-  Steel Sheet Pile Wall (Vertical Barrier Wall)
-  Slurry Wall (Vertical Barrier Wall)
-  Approximate Property Boundary

Note:  
 1. 2017 Aerial Photography provided by Esri ArcGIS Online World Imagery.



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

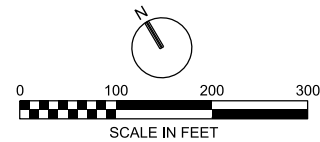




**NOTES:**  
 1. FIELD ACTIVITIES OCCURRED FROM JUNE 6 TO JUNE 15, 2019.  
 2. THE TEMPORARY WELL POINT GROUNDWATER GRAB SAMPLE LOCATIONS GW008S AND GW-TW02 ARE STEPPED OUT FROM THE ABANDONED MONITORING WELL LOCATIONS MW008S AND TW-2 AND ARE NAMED BECAUSE OF THEIR PROXIMITY TO THOSE ABANDONED WELLS.

**LEGEND**

- EW-5 OR BT-02 ● EXTRACTION WELL OR TEST WELL
- MW002S OR MW115P ⊕ MONITORING WELL - SHALLOW OR PEAT
- MW002M ⊕ MONITORING WELL - MEDIUM
- MW002D ⊕ MONITORING WELL - DEEP (BEDROCK)
- PZ04 ▲ PIEZOMETER
- VW-TB01 ▲ VIBRATING WIRE PIEZOMETER
- SG1 ▲ STAFF GAUGE
- ▲ WELLS PREVIOUSLY ABANDONED OR DESTROYED
- GRAB GROUNDWATER SAMPLE LOCATION
- ⊕ INSTALLED NEW MONITORING WELL
- SHEET PILE WALL
- SLURRY WALL
- \* ARSENIC SAMPLING EVERY 5 YEARS
- \*\* VOC SAMPLING EVERY 5 YEARS
- AS ARSENIC SAMPLING LOCATION AND MANUAL WATER LEVEL MEASUREMENT
- AS TRANSUDER GROUNDWATER ELEVATION MEASUREMENT LOCATION AND ARSENIC SAMPLING LOCATION
- AS BOX AROUND HIGHLIGHTING INDICATES TRANSUDER DATA WILL BE ANALYZED USING SERIES SEE
- AS TRANSUDER WATER LEVEL MEASUREMENT AND MANUAL WATER ELEVATION MEASUREMENT AT TIME OF ARSENIC SAMPLING
- AS MANUAL GROUNDWATER ELEVATION MEASUREMENT ONLY AT TIME OF ARSENIC SAMPLING EVENTS



**FIGURE 2**  
**SITE PLAN WITH WELLS**  
 TYCO FIRE PRODUCTS LP  
 MARINETTE, WISCONSIN

Attachment 1  
Photograph Log

Well Installation and Repair Field  
Activities, June 6 to June 15, 2019  
January 2020

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**Project Title** Well Installation and Repair Field Activities, June 6 to June 15, 2019  
**Location** Tyco Fire Products LP Site, Marinette, Wisconsin  
**Date** January 2020

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**Photograph 1: MW121S completed well pad and bollard installation**



**Photograph 2: MW122S completed well pad and bollard installation**



**Photograph 3: MW123S completed well pad and bollard installation**



**Photograph 4: MW124S completed well pad and bollard installation**



**Photograph 5: MW107S completed well pad and bollard installation**





**Photograph 6: MW118D-R well installation and MW118S and MW118M well repairs**



**Photograph 7: MW068S well repair**



**Photograph 8: GW-TW02 temporary point well groundwater sample location** (The temporary well point groundwater grab sample location GW-TW02 is stepped out from the abandoned well location TW-2 and is named because of its proximity to this abandoned well.)

Attachment 2  
Boring Logs

Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other  \_\_\_\_\_

Page 1 of 1

Facility/Project Name Tyco Fire Products LP		License/Permit/Monitoring Number		Boring Number GW008S	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Mark Last Name: Michaud Firm: Walker-Hill Env.		Date Drilling Started <u>06</u> / <u>09</u> / <u>2019</u> m m / d d / y y y y	Date Drilling Completed <u>06</u> / <u>09</u> / <u>2019</u> m m / d d / y y y y	Drilling Method Roto-sonic	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 4 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E			Lat <u>0</u> ' " <u>0</u> ' "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Long _____		____ Feet _____ Feet	
Facility ID 438039470		County Marinette	County Code 38	Civil Town/City/ or Village Marinette, WI	

Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				Blind drilled Depth to bottom 7 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____	Firm _____
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other  \_\_\_\_\_

Page 1 of 1

Facility/Project Name Tyco Fire Products LP			License/Permit/Monitoring Number		Boring Number GW-TW02	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Mark Last Name: Michaud Firm: Walker-Hill Env.			Date Drilling Started <u>06</u> / <u>12</u> / <u>2019</u> m m d d y y y y		Date Drilling Completed <u>06</u> / <u>12</u> / <u>2019</u> m m d d y y y y	
WI Unique Well No.		DNR Well ID No.	Well Name	Final Static Water Level ____ Feet MSL		Surface Elevation ____ Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane _____ N, _____ E		Lat _____ ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	____	____	____	____	____	____
Facility ID 438039470		County Marinette		County Code <u>38</u>	Civil Town/City/ or Village Marinette, WI	

Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				Blind drilled Depth to bottom 5 feet										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Wayne Conway Firm Jacobs

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Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other  \_\_\_\_\_

Facility/Project Name Tyco Fire Products LP		License/Permit/Monitoring Number		Boring Number MW107S	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Mark Last Name: Michaud Firm: Walker-Hill Env.		Date Drilling Started 06 / 09 / 2019 m m / d d / y y y y	Date Drilling Completed 06 / 09 / 2019 m m / d d / y y y y	Drilling Method Roto-sonic	
WI Unique Well No.	DNR Well ID No.	Well Name MW107S	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 6 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane 470360.29 N, 2584936.50 E			Lat 0 ' "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____	____ Feet _____ Feet	
Facility ID 438039470		County Marinette	County Code 38	Civil Town/City/ or Village Marinette, WI	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
HA-1	0-5		0.0	0-3.5' Fill, Silty Fine Gravel with Sand (GP), Wet at 0.5 feet bgs.	GP										
			3.5	3.5-8' Poorly graded, very fine Sand (SP) with trace silt, reddish brown, wet, medium dense, with black streaks throughout	SP	5 ft		6.1 10.3							
S-1	5-7 (2/2)							0 0							
S-2	7-12 (3/5)		8.0	8-9' Poorly graded fine limestone Gravel with sand (GP), grey, wet, loose. 9-10' Poorly graded Sand with Gravel and Silt (SP), very dark brownish grey, wet, medium dense.	GP SP			0 0 0							
S-3	12-17 (3/5)			10-12' Loss 12-15' Poorly graded Sand with Gravel and Silt (SP), very dark grey, wet, loose. 15-17' Loss	SP	15 ft 15.5 ft									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Wayne Conway	Firm Jacobs
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other  \_\_\_\_\_

Facility/Project Name Tyco Fire Products LP		License/Permit/Monitoring Number		Boring Number MW118D-R	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Mark Last Name: Michaud Firm: Walker-Hill Env.		Date Drilling Started 06 / 07 / 2019 m m d d y y y y	Date Drilling Completed 06 / 11 / 2019 m m d d y y y y	Drilling Method Roto-sonic	
WI Unique Well No.	DNR Well ID No.	Well Name MW118D-R	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 6 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane 470462.05 N, 2584806.98 E			Lat 0 ' "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Long _____	Feet _____ Feet _____		
Facility ID 438039470	County Marinette	County Code 38	Civil Town/City/ or Village Marinette, WI		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
HA-1	0-3		0.0	0-0.5' Asphalt											
S-1	3-8 (5/5)		1.0 2.0	0.5-2' Fill, Fine Gravel with Silt (GM), Grey Wet 2-15' Silty Very Fine Sand (SM), Reddish Brown (5YR 5/5), Wet, medium dense.	GM SM			0 0 0 0							
S-2	8-13 (5/5)							0 0 0 0							
S-3	13-18 (5/5)		15	15-17' Sandy Clay (CH), light brownish grey (10YR 6/2), moist, stiff	CH			0 0 0 0							
S-4	18-28 (10/10)		17	17-35' Clay with Coarse Gravel and Trace Sand, Trace Cobble (CH), brown (7.5YR 5/2), wet, stiff, cobbles subrounded, 10-inch to 6-inch diameter, strong chemical odor, no PID	CH			0 0 0 0							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Wayne Conway	Firm Jacobs
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		SM			Number and Type	Sample
		SW			Length Att. & Recovered (in)	
			ML			
		35-37' Sandy Clay (CH) with well-rounded gravel, pinkish grey (7.5YR 5/2), moist, very stiff, very fine sand.				
S 6	37-39'	37-39' Dolomite, grey				
	39					
	(0/2)					
S 7	39-48	39-53' Dolomite, grey, hard. No recovery				Soil/Rock Description And Geologic Origin For Each Major Unit
	(7/9)	43-45'				
						USCS
						Graphic Log
		47 ft				Well Diagram
						PID/FID
S 8	48-53					Compressive Strength
	(9/9)					Moisture Content
						Liquid Limit
						Plasticity Index
						P 200
						RQD/Comments
				52 ft		
				52.5 ft		
				53 ft		

Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other  \_\_\_\_\_

Facility/Project Name Tyco Fire Products LP		License/Permit/Monitoring Number		Boring Number MW121S	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Mark Last Name: Michaud Firm: Walker-Hill Env.		Date Drilling Started 06 / 13 / 2019 m m d d y y y y	Date Drilling Completed 06 / 13 / 2019 m m d d y y y y	Drilling Method Roto-sonic	
WI Unique Well No.	DNR Well ID No.	Well Name MW121S	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 6 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane 470581.94 N, 2584464.27 E			Lat 0 ' "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____	____ Feet _____ Feet	
Facility ID 438039470		County Marinette	County Code 38	Civil Town/City/ or Village Marinette, WI	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
HA-1	0-		0.0	0-1' Fill, Lean Clay (CL), Brown, Moist, medium stiff.	CL									
	5.5		1.0	1-5' Fill, Silty Fine Gravel with Clay (GM), Grey, moist, medium dense.	GM									
S-1	5.5-10.5 (3/5)		5.0	5-8' Poorly Graded Sand with Silt (SP), Grey, wet, coarse grained sand, loose	SP	5 ft		0	0	0	0	0		
			8.0	8-10' Loss										
S-2	10.5 - 15.5 (5/5)		10	10-15.5' Poorly Graded Sand with Silt (SP), Black, wet, coarse grained sand, loose, construction wood fill present.	SP	15 ft		2.2						
					4.7									
					6.3									
					4.2									
					1.8									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Wayne Conway	Firm Jacobs
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other  \_\_\_\_\_

Facility/Project Name Tyco Fire Products LP		License/Permit/Monitoring Number		Boring Number MW122S	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Mark Last Name: Michaud Firm: Walker-Hill Env.		Date Drilling Started 06 / 13 / 2019 m m d d y y y y	Date Drilling Completed 06 / 13 / 2019 m m d d y y y y	Drilling Method Roto-sonic	
WI Unique Well No.	DNR Well ID No.	Well Name MW122S	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 6 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane 470515.58 N, 2584652.46 E			Lat 0 ' "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____	____ Feet _____ Feet	
Facility ID 438039470		County Marinette	County Code 38	Civil Town/City/ or Village Marinette, WI	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
HA-1	0-		0.0	0-2' Fill, Lean Clay (CL), Brown, Moist (wet at 8-inches), medium stiff.	CL			0						
	5.5		2.0	2-7' Fill, Clayey Gravel (GC), Brown, wet, medium dense.	GC			0						
S-1	5.5-10.5 (3/5)		7.0	7-8' Wood		5 ft								
			8.0	8-10' Loss										
			10.5	10	10-11' Fill, Clayey Gravel (GC), Brown, wet, medium dense.			GC						
S-2	15.5 (5/5)		11	11-12' Silty fine sand (SM), Black, Moist, Dense	SM			2.7						
			12	12-15.5' Silty fine sand (SM) with wood (Fill), 60% wood, 20% sand, 15% silt, 5% clay, Black, Wet Dense	SM			7.3						
								4.1						
								1.7						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Wayne Conway	Firm Jacobs
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other  \_\_\_\_\_

Facility/Project Name Tyco Fire Products LP		License/Permit/Monitoring Number		Boring Number MW123S	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Mark Last Name: Michaud Firm: Walker-Hill Env.		Date Drilling Started 06 / 08 / 2019 m m d d y y y y	Date Drilling Completed 06 / 09 / 2019 m m d d y y y y	Drilling Method Roto-sonic	
WI Unique Well No.	DNR Well ID No.	Well Name MW123S	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 6 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane 470172.22 N, 2584921.82 E			Lat 0 ' "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____	____ Feet _____ Feet	
Facility ID 438039470		County Marinette	County Code 38	Civil Town/City/ or Village Marinette, WI	

Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
HA-1	0-5		0.0	0-4' Fill, Gravel with Sand and Silt (GW-GM), Grey Wet at 0.5 feet bgs, dense.	GW-GM									
			1.0											
			4.0	4-6' Silty Sand (SM), Greyish Brown, wet, poorly graded, medium grained sand, medium dense	SM	5 ft								
S-1	5-7		6.0	6-7' Wood										
	(2/2)		7.0	7-8' Poorly Graded Fine Sand with Cobbles (SP), Grey, wet, dense	SP									
S-2	7-12		8.0	8-9' Wood										
	(2/5)		9.0	9-12' Loss										
			12	12-13' Poorly Graded Fine Sand with Gravel (SP), Grey, moist, medium dense	SP									
S-3	12-17		13	13-14' Poorly Graded Medium Sand (SP), Dark Grey, wet, medium dense.	SP									
	(5/5)		14	14-15' Poorly Graded Fine Sand (SP), Grey, wet, medium dense.	SP	15 ft								
				15-16' Poorly Graded Medium Sand (SP), Very Dark Grey, wet, medium dense.	SP	15.5 ft								
				16-17' Poorly Graded Fine Sand (SP), Grey, wet, medium dense.		17 ft								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Wayne Conway	Firm Jacobs
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other  \_\_\_\_\_

Facility/Project Name Tyco Fire Products LP		License/Permit/Monitoring Number		Boring Number MW124S	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Mark Last Name: Michaud Firm: Walker-Hill Env.		Date Drilling Started <u>06</u> / <u>08</u> / <u>2019</u> m m d d y y y y	Date Drilling Completed <u>06</u> / <u>08</u> / <u>2019</u> m m d d y y y y	Drilling Method Roto-sonic	
WI Unique Well No.	DNR Well ID No.	Well Name MW124S	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter ____ 6 ____ inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <u>469893.41</u> N, <u>2584986.32</u> E			Lat <u>0</u> ' " <u>0</u> ' "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Long _____		____ Feet _____ Feet	
Facility ID 438039470	County Marinette	County Code <u>38</u>	Civil Town/City/ or Village Marinette, WI		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
HA-1	0-5		0.0 1.0	0-5' Fill, Sandy Fine Poorly Graded Limestone Gravel with Silt (GP), Grey Wet, dense.	GW-GM									
S-1	5-7 (2/2)		5.0	5-8' Poorly Graded Very Fine Sand (SP), Black, wet, medium dense	SP	5 ft		0.3 0.5 2.8						
S-2	7-12 (2/5)		7.0 8.0	8-8.3' Silty Fine Sand (SM), Brown, wet, medium dense, roots.	SM			12.3 6.2 1.7						
			9.0	8.3-9' Silty Medium Sand (SM), Brown, wet, medium dense.	SM			2.3 6.7						
			10.0	9-9.6' Silty Fine Sand with wood (SM), Black, wet, medium dense.	SM			4.3 1.7						
			11.0	9.6-11' Poorly Graded Fine Sand with Silt (SP)	SP			2.3 1.1						
S-3	12-17 (5/5)		13	11-13' Poorly Graded Medium Sand with Silt (SP), Brown, wet, medium dense 13-13.7' Sandy Fine Gravel with Silt (GP), wet, medium dense (likely fill, yellow limestone gravel).	SP GP									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

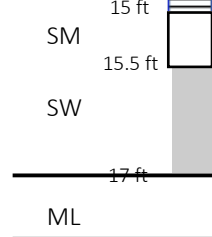
Signature Wayne Conway	Firm Jacobs
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15 14.7-15.5' Silty Medium Sand (SM), Very Dark Brown, wet, medium dense, roots present.

16 15.5-16' Well Graded Coarse Sand (SW), Grey, wet, medium dense, approx 10 percent silt

17 16-17' Silt (ML) with Gravel, Light Brownish Grey, moist, very stiff.

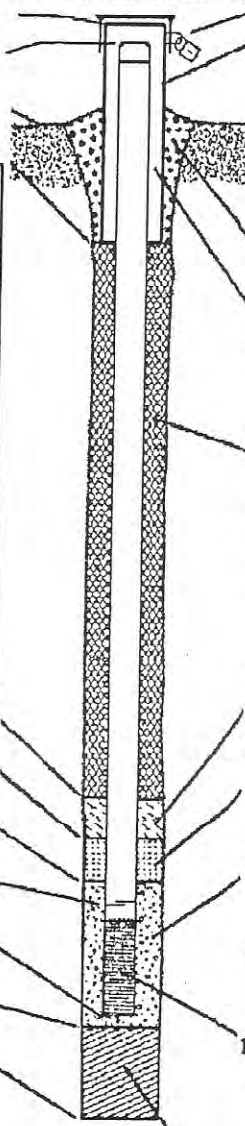


		Number and Type	Sample
		Length Att. & Recovered (in)	
		Blow Counts	
		Depth in Feet	
		Soil/Rock Description And Geologic Origin For Each Major Unit	
		U S C S	
		Graphic Log	
		Well Diagram	
		PID/FID	
		Compressive Strength	Soil Properties
		Moisture Content	
		Liquid Limit	
		Plasticity Index	
		P 200	
		RQD/ Comments	

Attachment 3  
Well Completion Logs

Facility/Project Name: Tyco Fire Products  
 Facility License, Permit or Monitoring No.: \_\_\_\_\_  
 Facility ID: 438 039 470  
 Type of Well monitoring: \_\_\_\_\_  
 Well Code: /  
 Distance from Waste/Source: \_\_\_\_\_ ft. Apply   
 Local Grid Location of Well: \_\_\_\_\_ ft. N. \_\_\_\_\_ ft. E. \_\_\_\_\_ ft. S. \_\_\_\_\_ ft. W.  
 Local Grid Origin (estimated: ) or Well Location: \_\_\_\_\_  
 Lat. \_\_\_\_\_ " Long. \_\_\_\_\_ " or \_\_\_\_\_  
 St. Plane \_\_\_\_\_ ft. N. \_\_\_\_\_ ft. E. S/C/N  
 Section Location of Waste/Source: N 1/4 of W 1/4 of Sec. 5, T. 30N, R. 24  W  
 Location of Well Relative to Waste/Source: u  Upgradient s  Sidegradient d  Downgradient n  Not Known  
 Gov. Lot Number: \_\_\_\_\_  
 Well Name: MW107S  
 Wis. Unique Well No.: \_\_\_\_\_ DNR Well ID No.: \_\_\_\_\_  
 Date Well Installed: 06/09/2019  
 Well Installed By: Name (first, last) and Firm: Mark Michaud  
 Walker-Hill Env.

A. Protective pipe, top elevation: 2.5 ft. MSL  
 B. Well casing, top elevation: 2.0 ft. MSL  
 C. Land surface elevation: 0.0 ft. MSL  
 D. Surface seal, bottom: 3.0 ft. MSL or \_\_\_\_\_ ft.  
 12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock   
 13. Sieve analysis performed?  Yes  No  
 14. Drilling method used: Rotary  50  
Sonic Hollow Stem Auger  41  
 Other   
 15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99  
 16. Drilling additives used?  Yes  No  
 Describe: \_\_\_\_\_  
 17. Source of water (attach analysis, if required):  
City



1. Cap and lock?  Yes  No  
 2. Protective cover pipe:  
 a. Inside diameter: 4.0 in.  
 b. Length: 5.0 ft.  
 c. Material: Steel  04  
 Other   
 d. Additional protection?  Yes  No  
 If yes, describe: J Plug  
 3. Surface seal: Bentonite  30  
Cement/Sand Mix Concrete  01  
 Other   
 4. Material between well casing and protective pipe:  
Cement/Sand Mix Bentonite  30  
 Other   
 5. Annular space seal:  
 a. Granular/Chipped Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight... Bentonite slurry  31  
 d. \_\_\_\_\_ % Bentonite... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above  
 f. How installed: Tremie  01  
 Grout: 1 bag (94 pounds) Type II Portland Cement, 4.5 gallons water, and 2 cubic feet of fine sand  
 Tremie pumped  02  
 Gravity  08  
 6. Bentonite seal:  
 a. Bentonite granules  33  
 b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  32  
 c. N/A Other   
 7. Fine sand material: Manufacturer, product name & mesh size  
 a. Global #8 sand  
 b. Volume added .5 ft<sup>3</sup>  
 8. Filter pack material: Manufacturer, product name & mesh size  
 a. Global #7 sand  
 b. Volume added 11.0 ft<sup>3</sup>  
 9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other   
 10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer: Johnson  
 c. Slot size: 0.10 in.  
 d. Slotted length: 10 ft.  
 11. Backfill material (below filter pack): Sand  14  
 Other

E. Bentonite seal, top: 0.0 ft. MSL or \_\_\_\_\_ ft.  
 F. Fine sand, top: 2.5 ft. MSL or \_\_\_\_\_ ft.  
 G. Filter pack, top: 3.0 ft. MSL or \_\_\_\_\_ ft.  
 H. Screen joint, top: 5.0 ft. MSL or \_\_\_\_\_ ft.  
 I. Well bottom: 15.0 ft. MSL or \_\_\_\_\_ ft.  
 J. Filter pack, bottom: 17.0 ft. MSL or \_\_\_\_\_ ft.  
 K. Borehole, bottom: 17.0 ft. MSL or \_\_\_\_\_ ft.  
 L. Borehole, diameter: 6.0 in.  
 M. O.D. well casing: 2.5 in.  
 N. I.D. well casing: 2.0 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
 Signature: Chris Hayslip Firm: Walker-Hill Environmental, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.



Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name: Tyco Fire Products  
 Facility License, Permit or Monitoring No.: \_\_\_\_\_  
 Facility ID: 43 80 39 47 0  
 Type of Well: Monitoring  
 Well Code: \_\_\_\_\_  
 Distance from Waste/Source: \_\_\_\_\_ ft. Enf. Stds. Apply

Local Grid Location of Well: \_\_\_\_\_ ft. N. \_\_\_\_\_ ft. E. \_\_\_\_\_ ft. S. \_\_\_\_\_ ft. W.  
 Local Grid Origin (estimated: ) or Well Location: \_\_\_\_\_  
 Lat. \_\_\_\_\_ " Long. \_\_\_\_\_ " or \_\_\_\_\_  
 St. Plane \_\_\_\_\_ ft. N. \_\_\_\_\_ ft. E. S/C/N \_\_\_\_\_  
 Section Location of Waste/Source: N 1/4 of W 1/4 of Sec. 5, T. 30N N. R. 24 E W  
 Location of Well Relative to Waste/Source: u  Upgradient s  Sidegradient d  Downgradient n  Not Known  
 Gov. Lot Number: \_\_\_\_\_

Well Name: MW118D-R  
 Wis. Unique Well No.: \_\_\_\_\_ DNR Well ID No.: \_\_\_\_\_  
 Date Well Installed: 06 / 11 / 2019  
 Well Installed By: Name (first, last) and Firm  
Mark Michaud  
Walker-Hill Env.

A. Protective pipe, top elevation: 2.5 ft. MSL  
 B. Well casing, top elevation: 2.0 ft. MSL  
 C. Land surface elevation: 0.0 ft. MSL  
 D. Surface seal, bottom: 3.0 ft. MSL or \_\_\_\_\_ ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

13. Sieve analysis performed?  Yes  No  
 14. Drilling method used: Rotary  50  
Sonic Hollow Stem Auger  41  
 Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe: \_\_\_\_\_

17. Source of water (attach analysis, if required):  
City

1. Cap and lock?  Yes  No  
 2. Protective cover pipe:  
 a. Inside diameter: 4.0 in.  
 b. Length: 5.0 ft.  
 c. Material: Steel  04  
 Other   
 d. Additional protection?  Yes  No  
 If yes, describe: J Plug

3. Surface seal: Bentonite  30  
Cement/Sand Mix Concrete  01  
 Other

4. Material between well casing and protective pipe: Bentonite  30  
Cement/Sand Mix Other

5. Annular space seal: a. Granular/Chipped Bentonite  33  
 b. \_\_\_\_\_ Lbs/gal mud weight... Bentonite-sand slurry  35  
 c. \_\_\_\_\_ Lbs/gal mud weight... Bentonite slurry  31  
 d. \_\_\_\_\_ % Bentonite... Bentonite-cement grout  50  
 e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above  
 f. How installed: Tremie  01  
 Grout: 1 bag (94 pounds) Type II Portland Cement, Tremie pumped  02  
 4.5 gallons water, and 2 cubic feet of fine sand; 50 gal Gravity  08

6. Bentonite seal: a. Bentonite granules  33  
 b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  32  
 c. \_\_\_\_\_ Other

7. Fine sand material: Manufacturer, product name & mesh size  
 a. Global #8 sand  
 b. Volume added .5 ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name & mesh size  
 a. Global #7 sand  
 b. Volume added 6.0 ft<sup>3</sup>

9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 6" outer steel casing to 37 ft Other

10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other   
 b. Manufacturer: Johnson  
 c. Slot size: 0.10 in.  
 d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None  14  
Sand Other

E. Bentonite seal, top: 0.0 ft. MSL or \_\_\_\_\_ ft.  
 F. Fine sand, top: 43.0 ft. MSL or \_\_\_\_\_ ft.  
 G. Filter pack, top: 45.0 ft. MSL or \_\_\_\_\_ ft.  
 H. Screen joint, top: 47.0 ft. MSL or \_\_\_\_\_ ft.  
 I. Well bottom: 52.0 ft. MSL or \_\_\_\_\_ ft.  
 J. Filter pack, bottom: 53.0 ft. MSL or \_\_\_\_\_ ft.  
 K. Borehole, bottom: 53.0 ft. MSL or \_\_\_\_\_ ft.  
 L. Borehole, diameter: 6.0 in.  
 M. O.D. well casing: 2.5 in.  
 N. I.D. well casing: 2.0 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Chris Hayslip

Firm: Walker-Hill Environmental, Inc.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Tyco Fire Products</b>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name <b>MW121S</b>	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated) or Well Location Lat. _____ " Long. _____ or _____		Wis. Unique Well No. DNR Well ID No.	
Facility ID <b>438 039 470</b>		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed <b>06 / 13 / 2019</b> m m d d y y y y	
Type of Well monitoring Well Code _____ / _____		Section Location of Waste/Source N <u>1/4</u> of W <u>1/4</u> of Sec. <u>5</u> , T. <u>30</u> N, R. <u>24</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <b>Mark Michaud</b>	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>				Walker-Hill Env.	

- A. Protective pipe, top elevation --- 2.5 ft. MSL
- B. Well casing, top elevation --- 2.0 ft. MSL
- C. Land surface elevation --- 0.0 ft. MSL
- D. Surface seal, bottom --- 3.0 ft. MSL or --- ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

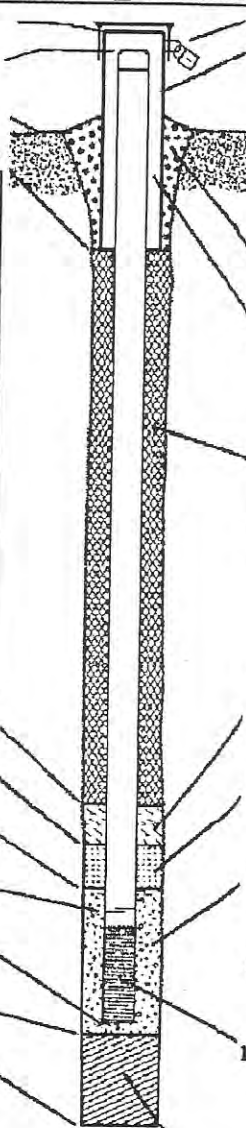
13. Sieve analysis performed?  Yes  No

14. Drilling method used: Rotary  50  
 Sonic  Hollow Stem Auger  41  
 Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of water (attach analysis, if required):  
City



- 1. Cap and lock?  Yes  No
- 2. Protective cover pipe:
  - a. Inside diameter: 4.0 in.
  - b. Length: 5.0 ft.
  - c. Material: Steel  04  
Other
  - d. Additional protection?  Yes  No  
If yes, describe: J Plug
- 3. Surface seal: Bentonite  30  
Concrete  01  
Cement/Sand Mix  Other
- 4. Material between well casing and protective pipe: Bentonite  30  
Cement/Sand Mix  Other
- 5. Annular space seal:
  - a. Granular/Chipped Bentonite  33
  - b. \_\_\_\_\_ Lbs/gal mud weight . . . Bentonite-sand slurry  35
  - c. \_\_\_\_\_ Lbs/gal mud weight . . . . . Bentonite slurry  31
  - d. \_\_\_\_\_ % Bentonite . . . . . Bentonite-cement grout  50
  - e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above
  - f. How installed: Tremie  01  
Grout: 1 bag (94 pounds) Type II Portland Cement, Tremie pumped  02  
4.5 gallons water, and 2 cubic feet of fine sand Gravity  08
- 6.  Bentonite granules  33  
 1/4 in.  3/8 in.  1/2 in. Bentonite chips  32  
 N/A Other
- 7. Fine sand material: Manufacturer, product name & mesh size  
 a. Global #8 sand  
 b. Volume added .5 ft<sup>3</sup>
- 8. Filter pack material: Manufacturer, product name & mesh size  
 a. Global #7 sand  
 b. Volume added 11.0 ft<sup>3</sup>
- 9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other
- 10. Screen material: PVC  
 a. Screen type: Factory cut  11  
 Continuous cut  01  
 Other   
 b. Manufacturer Johnson  
 c. Slot size: \_\_\_\_\_  
 d. Slotted length: 0.10 in. 10 ft.
- 11. Backfill material (below filter pack): Sand  14  
 None  Other

- E. Bentonite seal, top --- 0.0 ft. MSL or --- ft.
- F. Fine sand, top --- 2.5 ft. MSL or --- ft.
- G. Filter pack, top --- 3.0 ft. MSL or --- ft.
- H. Screen joint, top --- 5.0 ft. MSL or --- ft.
- I. Well bottom --- 15.0 ft. MSL or --- ft.
- J. Filter pack, bottom --- 15.5 ft. MSL or --- ft.
- K. Borehole, bottom --- 15.5 ft. MSL or --- ft.
- L. Borehole, diameter --- 6.0 in.
- M. O.D. well casing 2.5 in.
- N. I.D. well casing 2.0 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Chris Hayslip Firm Walker-Hill Environmental, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 287, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Tyco Fire Products</b>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name <b>MW122S</b>	
Facility License, Permit or Monitoring No. <b>438 039 470</b>		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/>		Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>	
Facility ID <b>438 039 470</b>		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed <b>06 / 13 / 2019</b> m m d d y y y	
Type of Well monitoring Well Code _____ /		Section Location of Waste/Source N 1/4 of W 1/4 of Sec. 5, T. 30N N, R. 24 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <b>Mark Michaud</b>	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>				Walker-Hill Env.	

- A. Protective pipe, top elevation --- 2.5 ft. MSL
- B. Well casing, top elevation --- 2.0 ft. MSL
- C. Land surface elevation --- 0.0 ft. MSL
- D. Surface seal, bottom --- 3.0 ft. MSL or --- ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

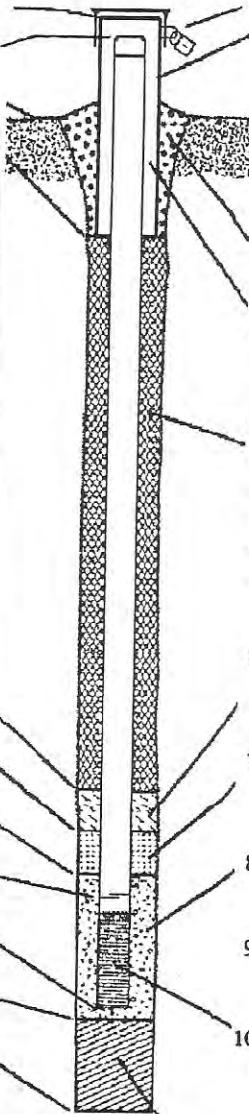
13. Sieve analysis performed?  Yes  No

14. Drilling method used: Rotary  50  
 Sonic  Hollow Stem Auger  41  
 Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of water (attach analysis, if required):  
 City \_\_\_\_\_



- 1. Cap and lock?  Yes  No
- 2. Protective cover pipe:
  - a. Inside diameter: 4.0 in.
  - b. Length: 5.0 ft.
  - c. Material: Steel  04  
Other
  - d. Additional protection?  Yes  No  
If yes, describe: J Plug
- 3. Surface seal: Bentonite  30  
Concrete  01  
Cement/Sand Mix
- 4. Material between well casing and protective pipe: Bentonite  30  
Cement/Sand Mix  Other
- 5. Annular space seal:
  - a. Granular/Chipped Bentonite  33
  - b. \_\_\_\_\_ Lbs/gal mud weight... Bentonite-sand slurry  35
  - c. \_\_\_\_\_ Lbs/gal mud weight... Bentonite slurry  31
  - d. \_\_\_\_\_ % Bentonite... Bentonite-cement grout  50
  - e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above
  - f. How installed: Tremie  01  
Grout: 1 bag (94 pounds) Type II Portland Cement, Tremie pumped  02  
4.5 gallons water, and 2 cubic feet of fine sand Gravity  08
- 6. Bentonite seal:
  - a. Bentonite granules  33
  - b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  32
  - c. N/A Other
- 7. Fine sand material: Manufacturer, product name & mesh size  
 a. Global #8 sand  
 b. Volume added .5 ft<sup>3</sup>
- 8. Filter pack material: Manufacturer, product name & mesh size  
 a. Global #7 sand  
 b. Volume added 11.0 ft<sup>3</sup>
- 9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other
- 10. Screen material: PVC
  - a. Screen type: Factory cut  11  
Continuous slot  01  
Other
  - b. Manufacturer Johnson
  - c. Slot size: 0.10 in.
  - d. Slotted length: 10 ft.
- 11. Backfill material (below filter pack): Sand  
 None  14  
 Other

- E. Bentonite seal, top --- 0.0 ft. MSL or --- ft.
- F. Fine sand, top --- 2.5 ft. MSL or --- ft.
- G. Filter pack, top --- 3.0 ft. MSL or --- ft.
- H. Screen joint, top --- 5.0 ft. MSL or --- ft.
- I. Well bottom --- 15.0 ft. MSL or --- ft.
- J. Filter pack, bottom --- 15.5 ft. MSL or --- ft.
- K. Borehole, bottom --- 15.5 ft. MSL or --- ft.
- L. Borehole, diameter --- 6.0 in.
- M. O.D. well casing --- 2.5 in.
- N. I.D. well casing --- 2.0 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Chris Hayslip

Firm Walker-Hill Environmental, Inc.

Facility/Project Name <b>Tyco Fire Products</b>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name <b>MW123S</b>	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/>		Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>	
Facility ID <b>438 039 470</b>		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed <b>06 / 09 / 2019</b> m m d d y y y y	
Type of Well monitoring Well Code _____ / _____		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <b>Mark Michaud</b>	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>		Walker-Hill Env.			

- A. Protective pipe, top elevation --- 2.5 ft. MSL
- B. Well casing, top elevation --- 2.0 ft. MSL
- C. Land surface elevation --- 0.0 ft. MSL
- D. Surface seal, bottom --- 3.0 ft. MSL or --- ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

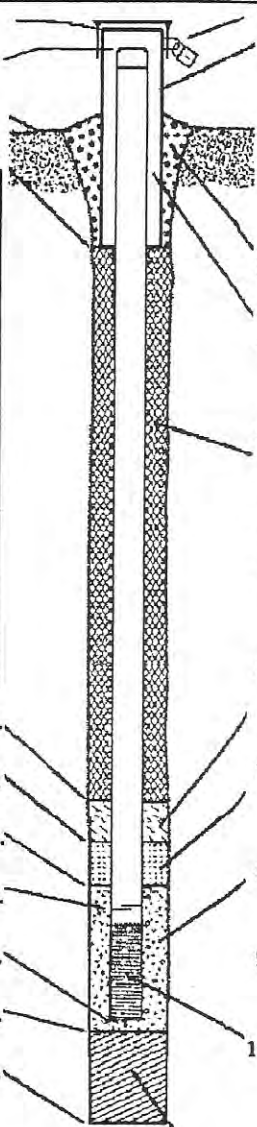
13. Sieve analysis performed?  Yes  No

14. Drilling method used: Rotary  50  
 Sonic  Hollow Stem Auger  41  
 Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of water (attach analysis, if required):  
City



- 1. Cap and lock?  Yes  No
- 2. Protective cover pipe:
  - a. Inside diameter: 4.0 in.
  - b. Length: 5.0 ft.
  - c. Material: Steel  04  
Other
  - d. Additional protection?  Yes  No  
If yes, describe: J Plug
- 3. Surface seal: Bentonite  30  
Concrete  01  
Other
- 4. Material between well casing and protective pipe: Bentonite  30  
Other
- 5. Annular space seal:
  - a. Granular/Chipped Bentonite  33
  - b. \_\_\_\_\_ Lbs/gal mud weight . . . Bentonite-sand slurry  35
  - c. \_\_\_\_\_ Lbs/gal mud weight . . . . Bentonite slurry  31
  - d. \_\_\_\_\_ % Bentonite . . . . . Bentonite-cement grout  50
  - e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above
  - f. How installed: Tremie  01  
Grout: 1 bag (94 pounds) Type II Portland Cement, 4.5 gallons water, and 2 cubic feet of fine sand  
Tremie pumped  02  
Gravity  08
- 6. Bentonite seal:
  - a. Bentonite granules  33
  - b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  32
  - c. N/A Other
- 7. Fine sand material: Manufacturer, product name & mesh size  
 a. Global #8 sand  
 b. Volume added .5 ft<sup>3</sup>
- 8. Filter pack material: Manufacturer, product name & mesh size  
 a. Global #7 sand  
 b. Volume added 11.0 ft<sup>3</sup>
- 9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other
- 10. Screen material: PVC
  - a. Screen type: Factory cut  11  
Continuous slot  01  
Other
  - b. Manufacturer Johnson
  - c. Slot size: 0.10 in.
  - d. Slotted length: 10 ft.
- 11. Backfill material (below filter pack): None  14  
Sand Other

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Chris Hayslip Firm Walker-Hill Environmental, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name: Tyco Fire Products  
 Facility License, Permit or Monitoring No.: \_\_\_\_\_  
 Facility ID: 438 039 470  
 Type of Well monitoring: \_\_\_\_\_  
 Well Code: \_\_\_\_\_  
 Distance from Waste/Source: \_\_\_\_\_ ft.  
 Enf. Stds. Apply

Local Grid Location of Well: \_\_\_\_\_ ft.  N. \_\_\_\_\_ ft.  E. \_\_\_\_\_ ft.  S. \_\_\_\_\_ ft.  W.  
 Local Grid Origin (estimated: ) or Well Location: \_\_\_\_\_  
 Lat. \_\_\_\_\_ "Long. \_\_\_\_\_ or \_\_\_\_\_  
 St. Plane \_\_\_\_\_ ft. N. \_\_\_\_\_ ft. E. S/C/N \_\_\_\_\_  
 Section Location of Waste/Source: N 1/4 of W 1/4 of Sec. 5, T.30N N.R. 24  E  W  
 Location of Well Relative to Waste/Source:  Upgradient  Sidegradient  Downgradient  Not Known  
 Gov. Lot Number: \_\_\_\_\_  
 Well Name: MW124S  
 Wis. Unique Well No.: \_\_\_\_\_ DNR Well ID No.: \_\_\_\_\_  
 Date Well Installed: 06 / 08 / 2019  
 Well Installed By: Name (first, last) and Firm: Mark Michaud  
Walker-Hill Env.

- A. Protective pipe, top elevation 2.5 ft. MSL
- B. Well casing, top elevation 2.0 ft. MSL
- C. Land surface elevation 0.0 ft. MSL
- D. Surface seal, bottom 3.0 ft. MSL or \_\_\_\_\_ ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

13. Sieve analysis performed?  Yes  No

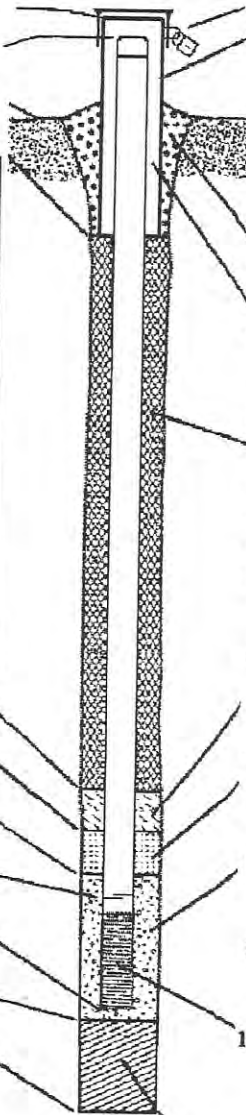
14. Drilling method used: Rotary  50  
 Sonic  Hollow Stem Auger  41  
 Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No

Describe: \_\_\_\_\_

17. Source of water (attach analysis, if required):  
City



- 1. Cap and lock?  Yes  No
- 2. Protective cover pipe:
  - a. Inside diameter: 4.0 in.
  - b. Length: 5.0 ft.
  - c. Material: Steel  04  
Other
  - d. Additional protection?  Yes  No  
If yes, describe: J Plug
- 3. Surface seal: Bentonite  30  
Concrete  01  
Other
- 4. Material between well casing and protective pipe: Bentonite  30  
Other
- 5. Annular space seal:
  - a. Granular/Chipped Bentonite  33
  - b. \_\_\_\_\_ Lbs/gal mud weight . . . Bentonite-sand slurry  35
  - c. \_\_\_\_\_ Lbs/gal mud weight . . . . . Bentonite slurry  31
  - d. \_\_\_\_\_ % Bentonite . . . . . Bentonite-cement grout  50
  - e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above
  - f. How installed: Tremie  01  
Grout: 1 bag (94 pounds) Type II Portland Cement, 4.5 gallons water, and 2 cubic feet of fine sand; Tremie pumped  02  
Gravity  08
- 6. Bentonite seal:
  - a. Bentonite granules  33
  - b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  32
  - c. N/A Other
- 7. Fine sand material: Manufacturer, product name & mesh size  
 a. Global #8 sand
- b. Volume added .5 ft<sup>3</sup>
- 8. Filter pack material: Manufacturer, product name & mesh size  
 a. Global #7 sand
- b. Volume added 11.0 ft<sup>3</sup>
- 9. Well casing: Flush threaded PVC schedule 40  23  
 Flush threaded PVC schedule 80  24  
 Other
- 10. Screen material: PVC
  - a. Screen type: Factory cut  11  
 Continuous slot  01  
 Other
  - b. Manufacturer Johnson
  - c. Slot size: 0.10 in.
  - d. Slotted length: 10 ft.
- 11. Backfill material (below filter pack): None  14  
Sand Other

- E. Bentonite seal, top 0.0 ft. MSL or \_\_\_\_\_ ft.
- F. Fine sand, top 2.5 ft. MSL or \_\_\_\_\_ ft.
- G. Filter pack, top 3.0 ft. MSL or \_\_\_\_\_ ft.
- H. Screen joint, top 5.0 ft. MSL or \_\_\_\_\_ ft.
- I. Well bottom 15.0 ft. MSL or \_\_\_\_\_ ft.
- J. Filter pack, bottom 17.0 ft. MSL or \_\_\_\_\_ ft.
- K. Borehole, bottom 17.0 ft. MSL or \_\_\_\_\_ ft.
- L. Borehole, diameter 6.0 in.
- M. O.D. well casing 2.5 in.
- N. I.D. well casing 2.0 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Chris Hayslip

Firm: Walker-Hill Environmental, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Attachment 4  
Well Development Logs

Route to:  Watershed/Wastewater  Waste Management   
 Remediation/Redevelopment  Other

Facility/Project Name <b>Tyco Fire Products</b>	County Name <b>Marinette</b>	Well Name <b>MW121S</b>
Facility License, Permit or Monitoring Number	County Code <b>38</b>	Wis. Unique Well Number
		DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method
- surged with bailer and bailed  41
  - surged with bailer and pumped  61
  - surged with block and bailed  42
  - surged with block and pumped  62
  - surged with block, bailed and pumped  70
  - compressed air  20
  - bailed only  10
  - pumped only  51
  - pumped slowly  50
  - Other  \_\_\_\_\_

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ gal.

7. Volume of water removed from well 120 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

17. Additional comments on development:

~2 gallons/minute pumping rate

11. Depth to Water Before Development After Development

a. 0 - 76 ft. 0 - 85 ft.

Date b. 6 / 14 / 2019 6 / 14 / 2019  
m m d d y y y y m m d d y y y y

Time c. 08 : 50  a.m.  p.m. 09 : 50  a.m.  p.m.

12. Sediment in well bottom \_\_\_\_\_ inches \_\_\_\_\_ inches

13. Water clarity Clear  10 Clear  20  
Turbid  15 Turbid  25  
(Describe) (Describe)

fuel-like Turb <50 NTU

odor, Turb 250

NTU

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l  
solids

15. COD \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Mike Last Name: Michaud

Firm: Walker-Hill Environmental, Inc

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Ryan Last Name: Suennen

Facility/Firm: Tyco Fire Products LP

Street: One Stanton Street

City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Jack Graham

Print Name: Jack Graham

Firm: Jacobs

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name Tyco Fire Products	County Name Marinette	Well Name MW122S
Facility License, Permit or Monitoring Number	County Code 38	Wis. Unique Well Number
		DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method
- surged with bailer and bailed  4 1
  - surged with bailer and pumped  6 1
  - surged with block and bailed  4 2
  - surged with block and pumped  6 2
  - surged with block, bailed and pumped  7 0
  - compressed air  2 0
  - bailed only  1 0
  - pumped only  5 1
  - pumped slowly  5 0
  - Other

3. Time spent developing well 250 min.

4. Depth of well (from top of well casing)          ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing          gal.

7. Volume of water removed from well 77 gal.

8. Volume of water added (if any)          gal.

9. Source of water added         

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

17. Additional comments on development:

11. Depth to Water (from top of well casing)

	<u>Before Development</u>	<u>After Development</u>
a.	1' 24" ft.	Dry ft.

Date b. 6 / 14 / 2019 y y 6 / 14 / 2019 y y

Time c. 40 : 25  p.m. 14 : 35  p.m.

12. Sediment in well bottom          inches          inches

13. Water clarity Clear  1 0 Turbid  1 5  
(Describe) (Describe)

Black Turb <50 NTU

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids          mg/l          mg/l

15. COD          mg/l          mg/l

16. Well developed by: Name (first, last) and Firm  
First Name: Mike Last Name: Michaud  
Firm: Walker-Hill Environmental, Inc.

Surged after 30 minutes of pumping for 10 minutes and then pumped for 37 minutes. Resumed activities after lunch, surged again and pumped for another 30 minutes.

Name and Address of Facility Contact /Owner/Responsible Party  
First Name: Ryan Last Name: Suennen  
Facility/Firm: Tyco Fire Products LP  
Street: One Stanton Street  
City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Jack Graham  
Print Name: Jack Graham  
Firm: Jacobs



Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Tyco Fire Products</b>	County Name <b>Marinette</b>	Well Name <b>MW1236</b>
Facility License, Permit or Monitoring Number	County Code <b>38</b>	DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/> 4 1
surged with bailer and pumped	<input type="checkbox"/> 6 1
surged with block and bailed	<input type="checkbox"/> 4 2
surged with block and pumped	<input type="checkbox"/> 6 2
surged with block, bailed and pumped	<input type="checkbox"/> 7 0
compressed air	<input type="checkbox"/> 2 0
bailed only	<input type="checkbox"/> 1 0
pumped only	<input checked="" type="checkbox"/> 5 1
pumped slowly	<input type="checkbox"/> 5 0
Other _____	<input type="checkbox"/>

3. Time spent developing well 50 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ gal.

7. Volume of water removed from well 200 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>3.40</u> ft.	_____ ft.
Date	b. <u>6/12/2019</u>	<u>6/12/2019</u>
Time	c. <u>15:43</u> <input checked="" type="checkbox"/> p.m.	<u>16:33</u> <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5 (Describe) _____	Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____
	Turb <u>600 NTU</u>	Turb <u>&lt;50 NTU</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Mike Last Name: Michaud

Firm: Walker-Hill Environmental, Inc.

17. Additional comments on development:

Surged for 10 minutes and then pumped

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Ryan Last Name: Suennen

Facility/Firm: Tyco Fire Products LP

Street: One Stanton Street

City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Wayne Conway

Print Name: Wayne Conway

Firm: Jacobs

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name Tyco Fire Products	County Name Marinette	Well Name MW124S
Facility License, Permit or Monitoring Number	County Code 38	Wis. Unique Well Number
		DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method
- surged with bailer and bailed  41
  - surged with bailer and pumped  61
  - surged with block and bailed  42
  - surged with block and pumped  62
  - surged with block, bailed and pumped  70
  - compressed air  20
  - bailed only  10
  - pumped only  51
  - pumped slowly  50
  - Other  \_\_\_\_\_

3. Time spent developing well \_\_\_\_\_ 80 \_\_\_\_\_ min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 17 \_\_\_\_\_ 29 ft.

5. Inside diameter of well \_\_\_\_\_ 2 \_\_\_\_\_ in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ 2 \_\_\_\_\_ 4 gal.

7. Volume of water removed from well \_\_\_\_\_ 250 \_\_\_\_\_ gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

17. Additional comments on development:

Surged for 10 minutes and then pumped

11. Depth to Water (from top of well casing)

a. Before Development: \_\_\_\_\_ 2 \_\_\_\_\_ 79 \_\_\_\_\_ ft. After Development: \_\_\_\_\_ 4 \_\_\_\_\_ 91 \_\_\_\_\_ ft.

Date b. 6/12/2019 6/12/2019  
m m d d y y y y m m d d y y y y

Time c. 09:14  a.m.  p.m. 10:34  a.m.  p.m.

12. Sediment in well bottom \_\_\_\_\_ inches \_\_\_\_\_ inches

13. Water clarity Clear  10 Turbid  15  
(Describe) (Describe)

Turb over limit \_\_\_\_\_ Turb <50 NTU \_\_\_\_\_

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

15. COD \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Mike Last Name: Michaud

Firm: Walker-Hill Environmental, Inc.

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Ryan Last Name: Suennen

Facility/Firm: Tyco Fire Products LP

Street: One Stanton Street

City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Wayne Conway

Print Name: Wayne Conway

Firm: Jacobs

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Tyco Fire Products</b>	County Name <b>Marinette</b>	Well Name <b>MW107S</b>
Facility License, Permit or Monitoring Number	County Code <b>38</b>	DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/> 41
surged with bailer and pumped	<input type="checkbox"/> 61
surged with block and bailed	<input type="checkbox"/> 42
surged with block and pumped	<input type="checkbox"/> 62
surged with block, bailed and pumped	<input type="checkbox"/> 70
compressed air	<input type="checkbox"/> 20
bailed only	<input type="checkbox"/> 10
pumped only	<input checked="" type="checkbox"/> 51
pumped slowly	<input type="checkbox"/> 50
Other _____	<input type="checkbox"/>

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 18 - 31 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 25 gal.

7. Volume of water removed from well 122 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>3</u> - <u>14</u> ft.	<u>6</u> - <u>30</u> ft.
Date	b. <u>6</u> / <u>13</u> / <u>2019</u>	<u>6</u> / <u>13</u> / <u>2019</u>
Time	c. <u>14:30</u> <input checked="" type="checkbox"/> p.m.	<u>15:30</u> <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)
	Turb over limit _____	Turb <50 NTU _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Mike</u>	Last Name: <u>Michaud</u>
Firm:	<u>Walker-Hill Environmental, Inc.</u>	

17. Additional comments on development:

Pumped at ~1-2 gallons per minute

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Ryan Last Name: Suennen

Facility/Firm: Tyco Fire Products LP

Street: One Stanton Street

City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Wayne Conway

Print Name: Wayne Conway

Firm: Jacobs

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Tyco Fire Products</b>	County Name <b>Marinette</b>	Well Name <b>MW118D R</b>
Facility License, Permit or Monitoring Number	County Code <b>38</b>	Wis. Unique Well Number _____
		DNR Well ID Number _____

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/>	4 1
surged with bailer and pumped	<input type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input checked="" type="checkbox"/>	5 0
Other _____	<input type="checkbox"/>	

3. Time spent developing well 144 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 21 0 gal.

7. Volume of water removed from well 25 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>3 39</u> ft.	<u>Dry</u> ft.
Date	b. <u>6/14/2019</u>	<u>6/15/2019</u>
Time	c. <u>15:26</u> <input checked="" type="checkbox"/> p.m.	<u>13:25</u> <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>High turbidity</u>	Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) <u>Clear</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Mike Last Name: Michaud

Firm: Walker Hill Environmental, Inc.

17. Additional comments on development:  
Pumped dry 3 times, slow recharge. Surged before pumping.

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Ryan Last Name: Suennen

Facility/Firm: Tyco Fire Products LP

Street: One Stanton Street

City/State/Zip: Marinette, WI 54143

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Wayne Conway

Print Name: Wayne Conway

Firm: Jacobs

NOTE: See instructions for more information including a list of county codes and well type codes.

Attachment 5  
Abandonment Logs

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

Verification Only of Fill and Seal

**Route to DNR Bureau:**

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County Marinette		WI Unique Well # of Removed Well	Hicap #	Facility Name Tyco Fire Products LP      GW008S	
Latitude / Longitude (see instructions) 45.0980789° N -087.6132836° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS) 438039470	
1/4 / 1/4 or Gov't Lot #	1/4 NW	Section 5	Township 30 N	Range 24E <input type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring #
Well Street Address One Stanton Street			Original Well Owner		
Well City, Village or Town Marinette			Present Well Owner		
Subdivision Name			Mailing Address of Present Owner One Stanton St.		
Reason for Removal from Service Temporary Well			City of Present Owner Marinette		
WI Unique Well # of Replacement Well			State WI		ZIP Code 54143

**3. Filled & Sealed Well / Drillhole / Borehole Information**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 6/9/2019
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 7	Casing Diameter (in.) 4
Lower Drillhole Diameter (in.) 4	Casing Depth (ft.) 7
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 0.5

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did sealing material rise to surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity	<input checked="" type="checkbox"/> Conductor Pipe-Pumped
<input type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Concrete
<input checked="" type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

**5. Material Used to Fill Well / Drillhole**

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Sand-Cement Grout	Surface	7		1 bag (94 pounds) Type II Portland-Cement, 4.5 gallons water, and 2 cubic feet of fine sand

**6. Comments**

Temporary well point near former well MW008S was installed for a groundwater sample and then abandoned.

**7. Supervision of Work**

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Walker-Hill Environmental, Inc	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 06/09/2019	Date Received	Noted By
Street or Route 5983 Commerce Road		Telephone Number (850 ) 564-1876	Comments	
City Milton	State FL	ZIP Code 32583	Signature of Person Doing Work Chris Hayslip	Date Signed 7/1/2019

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

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

1. Well Location Information			2. Facility / Owner Information		
County Marinette	WI Unique Well # of Removed Well	Hicap #	Facility Name Tyco Fire Products LP	GW-TW02	

Latitude / Longitude (see instructions) 45.0973848° N -087.6128070° W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS) 438039470	License/Permit/Monitoring #
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1/4 / 1/4 or Gov't Lot #	1/4 NW	Section 5	Township 30 N	Range 24E	E W	Original Well Owner
Well Street Address One Stanton Street						Present Well Owner

Well City, Village or Town Marinette	Well ZIP Code 54143	Mailing Address of Present Owner One Stanton St.			
Subdivision Name	Lot #	City of Present Owner Marinette	State WI	ZIP Code 54143	

Reason for Removal from Service Temporary Well	WI Unique Well # of Replacement Well	4. Pump, Liner, Screen, Casing & Sealing Material			
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3. Filled & Sealed Well / Drillhole / Borehole Information		Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 6/12/2019	Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type:		Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input type="checkbox"/> Other (specify): _____		Did sealing material rise to surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Formation Type:		Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) 5	Casing Diameter (in.) 4	If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A

Required Method of Placing Sealing Material		Conductor Pipe-Gravity	<input checked="" type="checkbox"/> Conductor Pipe-Pumped
Screened & Poured (Bentonite Chips)		<input type="checkbox"/> Other (Explain): _____	

Lower Drillhole Diameter (in.) 4	Casing Depth (ft.) 5	Sealing Materials			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Concrete		
If yes, to what depth (feet)?		<input checked="" type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite Chips		
Depth to Water (feet) 0.5	For Monitoring Wells and Monitoring Well Boreholes Only:				
		<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout		
		<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used to Fill Well / Drillhole			
Sand-Cement Grout	From (ft.) Surface	To (ft.) 5	No. Yards, Sacks Sealant or Volume (circle one)      Mix Ratio or Mud Weight 1 bag (94 pounds) Type II Portland Cement, 4.5 gallons water, and 2 cubic feet of fine sand

**6. Comments**

Temporary well point near former well TW-02 was installed for a groundwater sample and then abandoned.

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Walker-Hill Environmental, Inc.	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 06/12/2019	Date Received	Noted By
Street or Route 5983 Commerce Road		Telephone Number ( 850 ) 564-1876	Comments	
City Milton	State FL	ZIP Code 32583	Signature of Person Doing Work Chris Hayslip	Date Signed 7/1/2019