State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Form 4400-194 (R 07/19)

GENERAL INSTRUCTIONS, PURPOSE AND APPLICABILITY OF THIS FORM:

Completion of the applicable portions of this form is required under Wis. Admin. Code § NR 724.13(3). Failure to submit this form as required is a violation of that rule section and is subject to the penalties in Wis. Stats. § 292.99. This form must be submitted every six months for remediation projects that report operation and maintenance progress, in accordance with Wis. Admin. Code §. NR 724.13(3). A narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Submittal of this form is not a substitute for reporting required by department programs such as Waste Water or Air Management.

Notes:

1. Long-term monitoring results submitted in accordance with Wis. Admin. Code § NR 724.17(3) are required to be submitted within 10 business days of receiving sampling results and are not required to be submitted using this form. However, portions of this form require monitoring data summary information that may be based on information previously submitted in accordance with that section of code.
2. Responsible parties should check with the department Project Manager assigned to the site to determine if this form is required to be submitted at sites responded to under the Federal Comprehensive Environmental Response and Compensation Act (commonly known as Superfund) or an equivalent state-lead response.
3. Responsible parties should check with the department Project Manager assigned to the site to determine if any of the information required in this form may be omitted or changed and should obtain prior written approval for any omissions or changes.
4. Responsible parties are required to report separately on a semi-annual basis under Wis. Admin. Code § NR 700.11(1). Reporting under that provision is through an internet-based form. More information can be found at: http://dnr.wi.gov/topic/Brownfields/documents/regs/NR700progreport.pdf.
5. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by Remediation and Redevelopment Program. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (Wis. Stats. §§ 19.31–19.39).

Section GI - General Site Information

A. General Information

1. Site name

Former Day One Formal Wear

2. Reporting period from:	To:	Days in period:
01/01/2020	06/30/2020	182

3. Regulatory agency (enter DNR, DATCP and/or other)	4. BRRTS ID No. (2 digit program-2 digit county-6 digit site specific)
DNR	02-31-576916

5. Site location

Region	County	Address
Central Office	Dane	3939 Lien Rd

Municipality name ● City ○ Town ○ Village	Township	Range ◉E ○W	Section	¼	¼ ¼
Madison	08 N	10	33	NE	NW

6. Responsible party	7. Consultant
Name: MARC, Inc.	☐ Select if the following information has changed since the last submittal
Mailing address: 901 Post Road, Madison, WI 53713	Company name: EnviroForensics, LLC
Phone number: (608) 223-9100	Mailing address: N16W23390 Stone Ridge Drive, Suite G, Waukesha, WI 53188 — Phone number: (262) 290-4001

8. Contaminants

Volatile Organic Compounds

9. Soil types (USCS or USDA)

SP, CL

10. Hydraulic conductivity(cm/sec):	11. Average linear velocity of groundwater (ft/yr)
N/A	N/A

12. If soil is treated ex situ, is the treatment location off site? ◯ Yes ◯ No

If yes, give location: Region	County					
Municipality name ◯ City ◯ Town ◯ Village	Township N	Range ◯E ◯W	Section	¼	¼ ¼

B. Remediation Method

Only submit sections that apply to an individual site. Check all that apply:

- ☐ Groundwater extraction (submit a completed Section GW-1).
- ☐ Free product recovery (submit a completed Section GW-1).
- ☐ In situ air sparging (submit a completed Section GW-2).
- ☐ Groundwater natural attenuation (submit a completed Section GW-3).
- ☐ Other groundwater remediation method (submit a completed Section GW-4).
- ☒ Soil venting (including soil vapor extraction building venting and bioventing submit a completed Section IS-1).
- ☐ Soil natural attenuation (submit a completed Section IS-2).
- ☐ Other in situ soil remediation method (submit a completed Section IS-3).
- ☐ Biopiles (submit a completed Section ES-1).
- ☐ Landspreading/thinspreading of petroleum contaminated soil (submit a completed Section ES-2).
- ☐ Other ex situ remediation method (submit a completed Section ES-3).
- ☐ Site is a landfill (submit a completed Section LF-1).

C. General Effectiveness Evaluation for All Active Systems

If the remediation is active (not natural attentuation), complete this subsection.

1. Is the system operating at design rates and specifications? ◉ Yes ◯ No
   If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.

2. Are modifications to the system warranted to improve effectiveness ◯ Yes ◉ No
   If yes, explain:

3. Is natural attenuation an effective low cost option at this time? ◯ Yes ◉ No
4. Is closure sampling warranted at this time? ◯ Yes ◉ No
5. Are there any modifications that can be made to the remediation to improve cost effectiveness? ◯ Yes ◉ No
   If yes, explain:

D. Economic and Cost Data to Date

1. Total investigation cost: $118,229.74
2. Implementation costs (design, capital and installation costs, excluding investigation costs): $78,338.43
3. Total costs during the previous reporting period: $2,675.76
4. Total costs during this reporting period: $2,823.31
5. Total anticipated costs for the next reporting period: $3,000.00
6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? ○ Yes ◉ No
   If yes, explain:

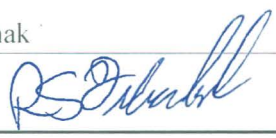
7. If closure is anticipated within 12 months, estimated costs for project closeout:

E. Name(s), Signature(s) and Date of Person(s) Submitting Form

Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form for sites with any ongoing active remediation, monitoring or an investigation. Other persons may sign this form for sites with no response activities during the six month reporting period.

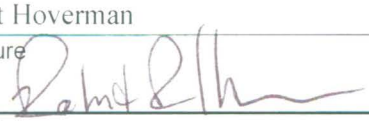
Registered Professional Engineers:

I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Robert Fedorchak	Senior Engineer
Signature	Date
	07/22/2020

Hydrogeologists:

I hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Robert Hoverman	Wisconsin Regional Director
Signature	Date
	7/22/2020

Scientists:

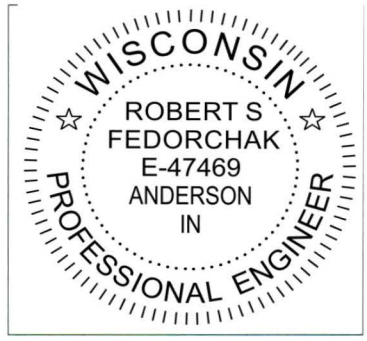
I hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Signature	Date

Other Persons:

Print name	Title
Signature	Date

Professional Seal(s), if applicable:



Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Section IS-1, Soil Venting (Including Soil Vapor Extraction, Building Venting and Bioventing)

A. Soil Venting Operation

Note: This form is not required for building vapor mitigation systems that are installed proactively to protect building occupants/users and are not considered part of ongoing active soil remediation.

1. Number of air extraction wells available and number of wells actually in use during the period: 2
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):
   26 days.
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
   System designed for operation once per week, therefore utilization is 100%
4. Average depth to groundwater: 15 gpm

B. Building Basement/Subslab Venting System Operation

1. Number of venting points available and number of points actually in use during the period: 0
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):
   0
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
   Unused

C. Effectiveness Evaluation

1. Average contaminant removal rate for the entire system: 0.001 pounds per day
2. Average contaminant removal rate per well or venting point: 0.001 pounds per day
3. If the average contaminant removal rate is less than one pound per day for the entire system, or if the average contaminant removal rate per well is less than one tenth of a pound per day, evaluate the following:
   a. If contaminants are aerobically biodegradable and confirmation borings have not been drilled in the past year:
      i. Oxygen levels in extracted air: _____ percent
      ii. Methane levels in extracted air (ppm_V) If over 10 ppm_V, explain:
      iii. If methane is not present above 10 ppm_V and if oxygen is greater than 20 percent in extracted air, you should either:
      - Drill confirmation borings during the next reporting period, if the entire site should be considered for closure.
      - Or, perform an in situ respirometry test in a zone of high contamination. Do not perform the test in an air extraction well, use a gas probe or water table well. If a zero order rate of decay based on oxygen depletion is less than 2 mg/kg per day, then you should drill confirmation borings, if the entire site should be considered for closure. If the rate of decay is between 2 and 10 mg/kg, operate for one more reporting period before evaluating further. If the zero order rate of decay is greater than 10 mg/kg total hydrocarbons, continue operating the system in a manner than maximizes aerobic biodegradation.
   b. If contaminants are not aerobically biodegradable and confirmation borings have not been recently drilled during the past year, you should drill confirmation borings during the next reporting period if the entire site should be considered for closure.
   c. If soil borings were drilled during the past year and soil contamination remains above acceptable levels, explain if the system effectiveness can be increased and/or if other options need to be considered to achieve cleanup criteria.

D. Additional Attachments

Attach the following to this form:

- Well and soil sample location map indicating all air extraction wells. If forced air injection wells are also in use, identify those wells.
- If water table monitoring wells are present at the site, a map of well locations.
- Time versus vapor phase contaminant concentration graph.
- Time versus cumulative contaminant removal graph.
- Groundwater elevations table, if water table wells are present at the site; also list screen lengths and elevations.
- Table of soil contaminant chemistry data.
- Soil gas data, if gas probes are used to monitor subsurface conditions in locations other than where air is extracted.
- System operational data table.

Grass

Lien Road

Grass

Parking

Commercial

Grass

MW-1

PZ-2

PZ-1

Parking

SS-6

MW-2

SS-4

SVE-2

SS-5

SVE-1

MP-1

MP-2

SS-2

(Former Day One Formal Wear)

SVE system unit

MW-3

Grass

Commercial

Parking

Grass

Parking

Grass

Legend

- Property boundary
- MW-1 Monitoring well
- PZ-1 Piezometer well
- SS-1 Sub-slab sample (By Others)
- MP-1 Monitoring Point (EnviroForensics)
- SVE-1 Soil vapor extraction well
- SVE conveyance piping

N

40 0 10 20 30 40

APPROXIMATE SCALE: 1" = 40'

SITE MAP

MARC East Property
3939 Lien Road
Madison, Wisconsin

Date:	1/2/19
Designed:	EB
Drawn:	EB
Checked:	KH
DWG file:	5040-0166

ENVIRO forensics
825 North Capitol Avenue • Indianapolis, IN 46204
EnviroForensics.com

Figure 1

Project 5040

Table 1
Groundwater Elevation Summary
MARC East (Former Day One Formal Wear)
Madison, Wisconsin

Well ID	Consultant	Date	Top Screen Elevation (feet AMSL)	Bottom Screen Elevation (feet AMSL)	TOC Elevation (feet AMSL)	DTW (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-1	Seymour	11/10/2015	858.5	843.5	873.15	21.26	851.89
	Seymour	2/22/2016	858.5	843.5	873.15	20.03	853.12
	Seymour	5/31/2016	858.5	843.5	873.15	20.00	853.15
	EnviroForensics	12/10/2018	858.5	843.5	873.15	18.33	854.82
	EnviroForensics	3/13/2020	858.5	843.5	873.15	18.53	854.62
	EnviroForensics	6/19/2020	858.5	843.5	873.15	17.58	855.57
MW-2	Seymour	11/10/2015	858.0	843.0	870.92	18.27	852.65
	Seymour	2/22/2016	858.0	843.0	870.92	17.25	853.67
	Seymour	5/31/2016	858.0	843.0	870.92	16.79	854.13
	EnviroForensics	12/10/2018	858.0	843.0	870.92	15.47	855.45
	EnviroForensics	3/13/2020	858.0	843.0	870.92	15.20	855.72
	EnviroForensics	6/19/2020	858.0	843.0	870.92	14.61	856.31
MW-3	Seymour	11/10/2015	858.3	843.3	868.32	14.81	853.51
	Seymour	2/22/2016	858.3	843.3	868.32	13.98	854.34
	Seymour	5/31/2016	858.3	843.3	868.32	13.03	855.29
	EnviroForensics	12/10/2018	858.3	843.3	868.32	11.89	856.43
	EnviroForensics	3/13/2020	858.3	843.3	868.32	12.35	855.97
	EnviroForensics	6/19/2020	858.3	843.3	868.32	11.09	857.23
PZ-1	Seymour	5/31/2016	813.3	808.3	873.06	19.75	853.31
	Seymour	7/30/2016	813.3	808.3	873.06	20.25	852.81
	EnviroForensics	12/10/2018	813.3	808.3	873.06	18.11	854.95
	EnviroForensics	3/13/2020	813.3	808.3	873.06	18.23	854.83
	EnviroForensics	6/19/2020	813.3	808.3	873.06	17.25	855.81
PZ-2	Seymour	7/30/2016	772.8	767.8	872.82	19.98	852.84
	EnviroForensics	12/10/2018	772.8	767.8	872.82	17.62	855.20
	EnviroForensics	3/13/2020	772.8	767.8	872.82	NA	--
	EnviroForensics	6/19/2020	772.8	767.8	872.82	16.62	856.20

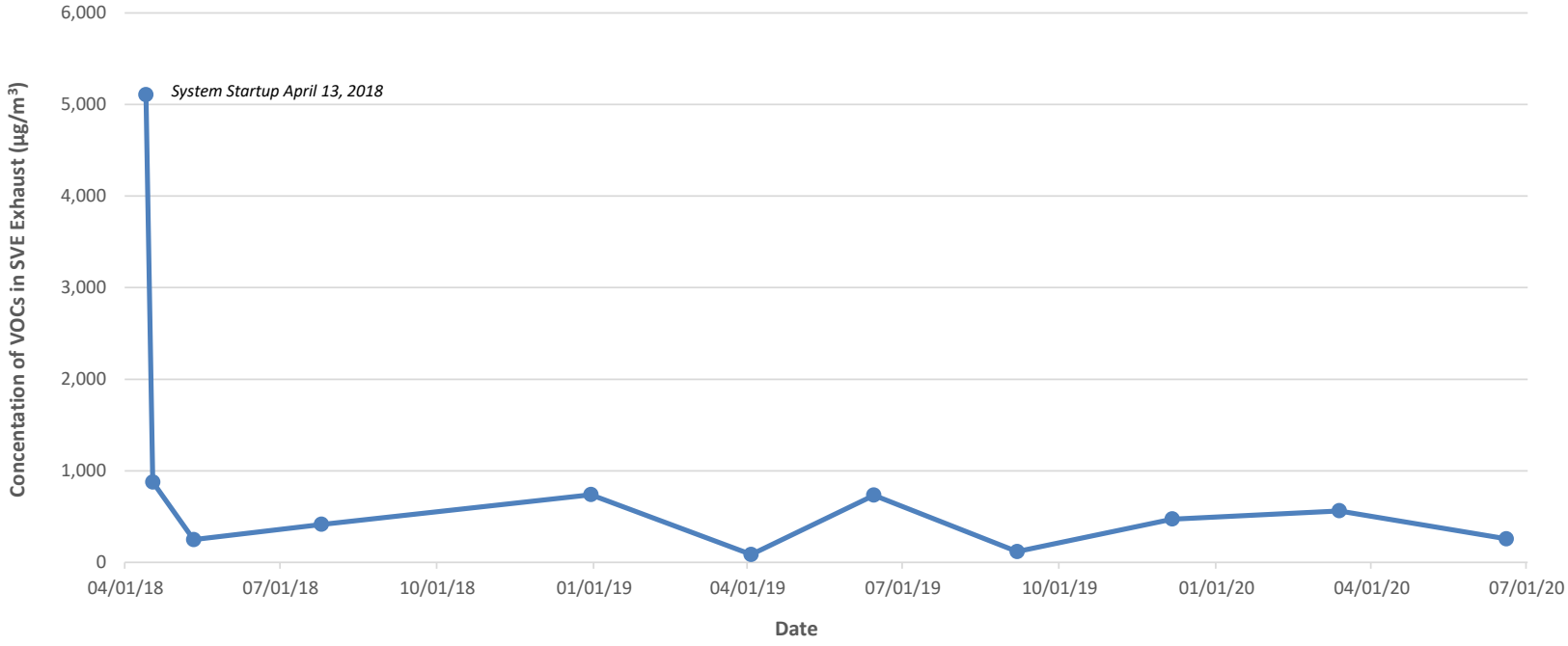
Notes:
AMSL = Above Mean Sea Level
TOC = Top of Casing
NA = Not accessible

TABLE 2
SOIL VAPOR EXTRACTION SYSTEM OPERATIONAL DATA
MARC East (Former Day One Formal Wear)
Madison, Wisconsin

Period		Time	System Runtime		System Vacuum	Dilution	Flow Rate	Intake Temperature	Exhaust Temperature	Effluent VOC Concentration	Total VOCs Removed During Period	Cumulative VOCs Removed
			Panel Display		Air-Water Separator	Intake			Exhaust Pipe	Exhaust Port		
From	To		Hours		in H_2O	%	SCFM	°F	°F	$\mu g/m^3$	Pounds	Pounds
4/13/2018	04/13/18	11:03	0.0	1.8	-30	0	141	62	101	5,108	0.005	0.005
4/13/2018	04/17/18	11:00	1.8	92.0	-29	0	140	63	103	877	0.041	0.046
4/17/2018	05/11/18	13:45	92.0	672.0	-33	0	140	63	106	248	0.075	0.122
5/11/2018	07/25/18	13:33	672.0	1008.8	-34	0	140	75	118	415	0.073	0.195
7/25/2018	12/30/18	09:20	1008.8	1117.7	-33	0	140	59	101	739	0.042	0.237
12/30/2018	04/03/19	10:10	1117.7	1190.3	-36	0	140	66	105	86	0.003	0.241
4/3/2019	06/14/19	9:21	1190.3	1252.0	-36	0	140	67	108	733	0.024	0.264
6/14/2019	09/06/19	11:55	1252.0	1444.6	-34	0	146	NM	118	118	0.013	0.277
9/6/2019	12/06/19	10:20	1444.6	1519.7	-34	0	147	68	118	473	0.020	0.297
12/06/19	3/13/2020	9:10	1519.7	1637.5	-36	0	147	66	105	562	0.036	0.333
3/13/2020	6/19/2020	11:40	1637.5	1798.0	-36	0	133	67	108	257	0.021	0.354

Notes:
in Hg = inches of mercury
in H_2O = inches of water
cfm = cubic feet per minute
$\mu g/m^3$ = micrograms per cubic meter

Chart 1
SVE Effluent VOC Concentration
MARC Inc. - Madison, Wisconsin



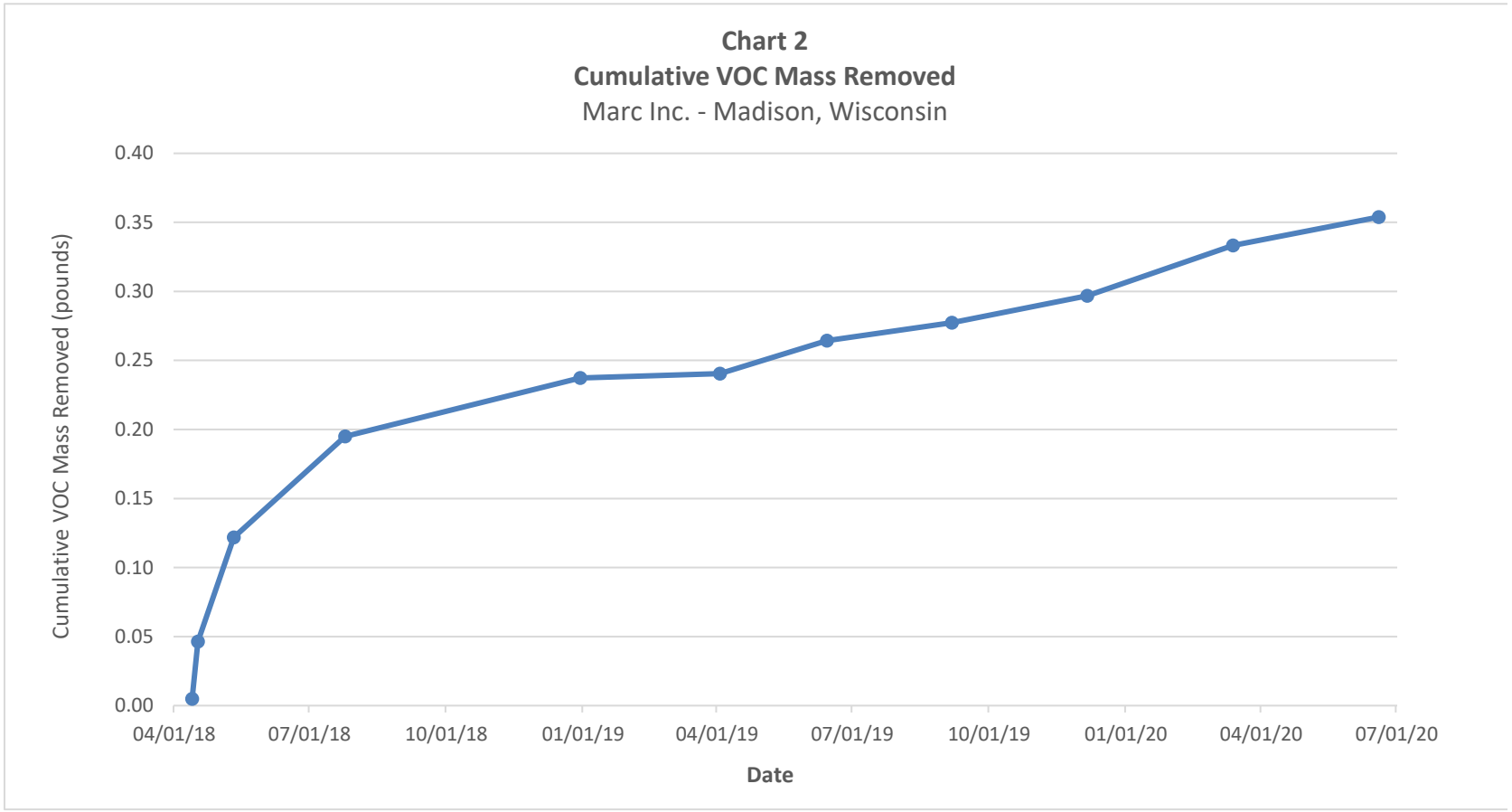


Chart 2
Cumulative VOC Mass Removed
Marc Inc. - Madison, Wisconsin
Cumulative VOC Mass Removed (pounds)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
04/01/18
07/01/18
10/01/18
01/01/19
04/01/19
07/01/19
10/01/19
01/01/20
04/01/20
07/01/20
Date