Illicit Discharge Detection & Elimination Program

2016 Outfall Field Screening Program



Prepared For The

CITY OF APPLETON DEPARTMENT OF PUBLIC WORKS CALUMET, OUTAGAMIE & WINNEBAGO COUNTIES, WISCONSIN



McM. No. A0003-9-16-00378.02



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DECEMBER 8, 2016 McM. No. A0003-9-16-00378.02

I. INTRODUCTION

For a description of the City's Illicit Discharge Field Screening Program, please refer to the 'Ongoing Field Screening Program – 2014 Revision', February 12, 2014. The February 12, 2014 report contains a comprehensive description of the program, maps depicting the City's outfalls, and information on how the program complies with the City's WPDES permit from the Wisconsin Department of Natural Resources (DNR). Appendix A summarizes the outfalls to be field screened each year, including 2016.

As a part of the City of Appleton Illicit Discharge Field Screening Program, seventy-five outfalls within the City's jurisdiction were screened during 2016. Of the outfalls, nineteen were major outfalls, thirty-eight were minor outfalls, and eighteen were supplemental outfalls. Appendix B contains the outfall field screening worksheets for the seventy-five outfalls.

II. SUMMARY OF ILLICIT DISCHARGE PROGRAM'S MEASURABLE GOALS

Results for the City's 2016 Outfall Field Screening Program are as follows.

- Seventy-five MS4 outfalls were screened.
- Sixty-seven outfalls were characterized as unlikely to have an illicit discharge.
- Eight outfalls were characterized as a potential, suspect, or obvious illicit discharge.
- Zero illicit discharge notifications were issued to adjacent municipalities.

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• Zero educational materials were distributed to the public during the screening, as McMAHON personnel did not encounter members of the public during the screening.

III. ILLICIT DISCHARGE & FLOW OBSERVATIONS

Of the seventy-five outfalls that were screened in 2016, five (CC-97, DD-175, E-60, U-20 and Y-336) had chemical indicators suggesting a potential illicit discharge. Jim Becker at the City of Appleton was contacted for each outfall that had chemical indicators of an illicit discharge.

- Outfall CC-97 had ammonia present. This was tracked back to manhole CC-15, which also had an ammonia hit. Manhole CC-16 was checked as well, but did not show any ammonia detection.
- Outfall DD-175 had ammonia present. This was tracked back to manhole DD-3, where it was determined that the manhole was leaking
- Outfalls E-60 and Y-336 had elevated levels of chlorine.
- Outfall U-20 had conductivity levels that exceeded 2,000 uS/cm.

Flow was observed at twenty-six outfalls (AA-1, AB-51, AJ-15, AQ-124, CC-97, CC-116, DD-175, E-58, E-60, HH-97, HH-100, II-48, J-141, N-319, N-363, PP-27, QQ-60, RR-29, SS-30, U-20, V-335, V-342, V-355, V-397, W-260 and Y-336). Videos were taken at each of the twenty-six outfalls with observed flow. Twenty-one of these outfalls showed no chemical indicators of an illicit discharge.

Physical indicators were observed at nineteen outfalls during screening:

- Flow line staining was observed at seven outfalls (AX-48, CC-97, JJ-43, SS-30, V-413, V-414 and V-432).
- Green pool water was observed at one outfall (AQ-130).
- Benthic growth was observed at eight outfalls (AJ-15, AK-9, AL-3, E-58, PP-27, SS-36, SS-39 and V-382,).
- Suds were observed at two outfalls (CC-97 and TT-28).
- Oil sheen was observed at one outfall (AC-12).
- Corrosion was observed at four outfalls (E-58, II-48, JJ-43 and SS-30).
- Of the nineteen outfalls that had physical indicators, three outfalls (E-58, JJ-43 and SS-30) had multiple physical indictors thus, these outfalls were classified as having a potential of illicit discharge.

IV. NON-ILLICIT DISCHARGE OBSERVATIONS

Outfall HH-97 was modified to include a trash guard on the end section.

Appendix C contains the outfall field screening worksheets for those outfalls with non-illicit discharge concerns. Seventeen outfalls had physical conditions not related to an illicit discharge:

- Structural damage to the pipe, end section, or headwall was observed at eight outfalls (E-58, II-48, SS-32, SS-33, SS-35, V-412, V-414 and V-415)
- Graffiti was observed at three outfalls (V-431, V-432, and Y-336)
- A sinkhole was observed at one outfall (AH-2)
- Corrosion was observed at six outfalls (E-58, II-48, JJ-43 and SS-30,)
- Litter was observed at one outfall (HH-97)
- Debris/downed trees were observed at two outfalls (BB-229 and V-335)

V. FUTURE FIELD SCREENING

As described in the 'Ongoing Field Screening Program – 2014 Revision', February 12, 2014, the outfalls within the City's jurisdiction that are deemed "priority" are to be screened every year and the major outfalls that are deemed "non-priority" are to be screened every 5 years. Non-priority, non-major outfalls are to be screened every 10 years. The City of Appleton reserves the right to revise the screening schedule as long as the goals of the screening frequency are achieved.

Seven outfalls (AD-345, AE-17, AX-45, KK-78, N-319, P-85 and V-136) were screened at supplemental locations due to inaccessibility at the actual outfall locations. McMAHON recommends that these outfalls be screened at their respective supplemental locations for future screenings. It should be noted that outfalls AQ-130, PP-32, QQ-60 and V-355 are immediately downstream of wet detention ponds. Illicit discharge detections can be diluted by the time the water reaches the outfalls when immediately downstream of wet detention ponds. Because of this, McMAHON recommends that illicit discharge inspections be conducted at wet pond inlets rather than outlets. Thus, McMAHON recommends that these four outfalls should not be tested in the future. Rather McMAHON recommends testingat the following supplemental outfalls:

- For AQ-130 AQ-126, AQ-127, AQ-129 and AW-62
- For PP-32 PP-27
- For QQ-60 QQ-58 and QQ-59
- For V-335 V-342

McMAHON recommends that future testing at outfall BY-3 be moved south to where the storm sewer discharges to the College Avenue (CTH 'CE') north ditch. Since the storm sewer system

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collects stormwater runoff from property within the City of Appleton downstream of BY-3, moving the testing location to the College Avenue (CTH 'CE') north ditch would provide testing for all land located within the storm sewer drainage area. It should be noted that some property located in the Town of Grand Chute also discharges to this storm sewer system. Thus, the Town of Grand Chute will need to be contacted if a potential illicit discharge is found at this outfall and tracked to property located within the Town of Grand Chute.

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Illicit Discharge Detection & Elimination Program

APPENDIX A

OUTFALLS IN THE CITY OF APPLETON FIELD SCREENING PROGRAM

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
			Priority	/ Outfalls	annual)	-	-		
AA-1	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
AB-51	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
AC-12	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
AE-17	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
AH-2	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
AX-45	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
AX-48	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
BB-229	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
BY-3	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
CC-116	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
CC-97	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
DD-175	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
E-58	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
E-60	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
HH-100	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
HH-97	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
J-141	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
КК-19	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
КК-21	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
KK-61	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
КК-66	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
КК-68	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
КК-78	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
N-319	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
N-363	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
P-85	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
PP-22	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
PP-27	Х	Х	Х	Х	Х	Х	Х	х	Х	Х
PP-32	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
QQ-58	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
QQ-59	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
QQ-60	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
RR-25	X	Х	Х	Х	Х	Х	Х	Х	Х	Х
RR-26	X	X	X	Х	X	X	X	X	X	X
RR-29	X	X	X	X	X	X	X	X	X	X
SS-30	X	X	X	X	X	X	X	X	X	X
SS-32	X	X	X	X	X	X	X	X	X	X
SS-33	X	X	X	X	X	X	X	X	X	X
SS-35	X	X	X	X	X	X	X	X	X	X
SS-36	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
SS-39	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
TT-28	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
V-136	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
W-260	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Y-336	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
		Non-Pri	ority Ma	jor Outfa	alls (ever	y 5 years	5)			
B-75	Х					0				
C-553	Х					0				
IDDE-102	Х					0				
L-32	Х					0				
NN-29	Х					0				
Z-129	Х					0				
BU-11		Х					0			
BU-12		Х					0			
EE-195		Х					0			
F-43		Х					0			
FF-108		Х					0			
II-48		Х					0			
BT-28				Х					0	
IDDE-105				Х					0	
AG-40					Х					0
AG-41					Х					0
AX-44					Х					0
BN-38					Х					0
P-192					Х					0
AT-6	0					Х				
BM-97		0					Х			
AD-345			0					Х		
AQ-124			0					Х		
AQ-130			0					Х		
JJ-43			0					Х		
BP-95					0					Х
	1	on-Priori	ty Non-N	/lajor Ou	tfalls (ev	ery 10 ye	ears)			
A-21	Х									
C-19	Х									
CC-96	Х									
J-140	Х									
K-18	Х									
L-78	Х									
L-80	Х									
L-83	Х									
MM-33	Х									

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
N-317	Х									
N-318	Х									
N-331	Х									
N-362	Х									
N-367	Х									
N-369	Х									
00-34	Х									
QQ-52	Х									
RR-35	Х									
RR-38	Х									
RR-39	Х									
WW-4	Х									
AJ-13		Х								
AJ-15		Х								
АК-9		Х								
AL-3		Х								
BB-226		Х								
FF-115		Х								
GG-68		Х								
GG-69		Х								
GG-71		Х								
GG-73		Х								
GG-75		Х								
GG-76		Х								
GG-77		Х								
H-60		Х								
I-33		Х								
КК-62		Х								
КК-65		Х								
LL-24		Х								
LL-25		Х								
M-10		Х								
SS-34			Х							
SS-43			Х							
U-20			Х							
V-335			Х							
V-336			Х							
V-339			Х							
V-342			Х							
V-344			Х							
V-355			Х							
V-382			Х							

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
V-397			Х							
V-400			Х							
V-401			Х							
V-404			Х							
V-405			Х							
V-412			Х							
V-413			Х							
V-414			Х							
V-415			Х							
V-430			Х							
V-431			Х							
V-432			Х							
AX-46				Х						
AX-47				Х						
AX-49				Х						
BR-26				Х						
BS-21				Х						
BT-13				Х						
BT-20				Х						
BT-22				Х						
BT-24				Х						
BT-25				Х						
BT-26				Х						
BT-27				Х						
BT-29				Х						
X-562				Х						
X-564				Х						
X-565				Х						
X-566				Х						
X-567				Х						
X-574				Х						
X-575				Х						
X-576				Х						
X-658				Х						
AG-3					Х					
AX-51					Х					
AX-57					Х					
AY-1					Х					
BN-36					Х					
CD-6					Х					
IDDE-100					Х					
IDDE-101					Х					

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
P-222					Х					
P-81					Х					
UU-25					Х					
VV-37					Х					
VV-62					Х					
X-560					Х					
X-630					Х					
X-632					Х					
X-633					Х					
X-634					Х					
X-657					Х					
XX-6					Х					
AF-116						Х				
AF-67						Х				
AF-88						Х				
AF-91						Х				
AN-12						Х				
AN-9						Х				
AO-59						Х				
AP-19						Х				
AS-5						Х				
AT-4						Х				
AU-69						Х				
BE-14						Х				
BF-7						Х				
BZ-20						Х				
BZ-23						Х				
BZ-26						Х				
AZ-54							Х			
BC-71							Х			
BC-76							Х			
BC-79							Х			
BC-80							Х			
BD-15							Х			
BK-55							Х			
BK-56							Х			
BK-86							Х			
BL-10							Х			
BM-64							Х			
BM-92							Х			
BM-94							Х			
BV-117							Х			

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BV-146							Х			
BV-147							Х			
BV-149							Х			
IDDE-103							Х			
IDDE-104							Х			
AC-13								Х		
AD-312								Х		
AD-323								Х		
AD-332								Х		
AD-336								Х		
AD-338								Х		
AD-341								Х		
AD-342								Х		
AD-355								Х		
AD-405								Х		
AD-409								Х		
AQ-126								Х		
AQ-127								Х		
AQ-129								Х		
AW-62								Х		
BH-3								Х		
BH-5								Х		
BO-38								Х		
BO-46								Х		
BO-47								Х		
BO-49								Х		
BV-119									Х	
BV-121									Х	
BV-123									Х	
BV-124									Х	
BV-126									Х	
BV-128									Х	
BV-129									Х	
BV-131									Х	
BV-133									Х	
BV-135									Х	
BV-136									Х	
BV-138									Х	
BV-139									Х	
BV-140									Х	
BV-142									Х	
BV-144									Х	

Outfall Inspection Sequence, by Year

Outfall ID	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BV-156									Х	
BV-159									Х	
BV-165									Х	
BW-14									Х	
BW-18									Х	
BW-19									Х	
BX-4									Х	
BX-7									Х	
BP-103										Х
BP-104										Х
BP-105										Х
BP-110										Х
BP-113										Х
BP-115										Х
BP-81										Х
BP-82										Х
BP-86										Х
BP-88										Х
BP-89										Х
BP-91										Х
BP-96										Х
BP-97										Х
BP-98										Х
BP-99										Х
BQ-25										Х
BQ-27										Х
BV-118										Х
BV-166										Х
Totals	73	72	71	69	71	68	71	70	71	71
Note:										
For non-priority major out	falls, "X" repr	esents the	primary sc	reening ye	ar (e.g., wh	en surrour	nding outfa	lls are also	screened).	The "O"

represents the alternate screening year, to meet the 5-year screening requirement.

APPENDIX B

2016 OUTFALL FIELD SCREENING WORKSHEETS



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AA-1 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location:

Administrative outfall at inlet/manhole. Flows west to culvert under Wisconsin Ave. (Formerly AA-1-Y) Concrete MH

Outfall Description:

Conveyance Type:	Close Pipe
Material:	Concrete MH
Shape:	Circular
Number of Pipes:	1
Diameter:	42"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/16/2016 Flow: Yes

Inspector: Nolan Knapp

Flow Description:	Trickle
Temperature:	19 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Thysical maleators in			
Overall Outfall Charact	terization:	Unlikely	
Non-Illicit Discharge	e Concerns:	No	
Comments:		Trickle flow, can't quantify due to b	eing a manhole. E.C. 1860. All other parameters non detect.
Date of Inspection: 8/2	28/2015 Inspec	tor: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: Yes			
Flow Description:	Trickle		AL CONTRACTOR
Temperature:	17 °C		ALC CAL
pH:	7.6 pH Units		

рп.	7.0 pm 01
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	Outfall flowing, but quantifying flow difficult without confined space entry. Construction at site. No erosion control at contributing catch basin. Side photo of outfall manhole.

Date of Inspection: 10/10/2014	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	No	
Comments:	Outfall location: -88.43638667000, 44. open due to conditions.	27308949240. Cannot safely



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AB-51 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location:

72 RCP from Winslow Av discharges to stream from north. (Formerly AB-23-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	72"
Submerged in Water:	Partially
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: Yes

Date of Inspection: 8/3/2016

Inspector: Nolan Knapp

Flow Description:	Trickle
Approximate Flow:	5 gpm
Temperature:	28 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Date of Inspection: 10/7/2014	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Comments:	None	
Non-Illicit Discharge Concerns:	No	
Overall Outfall Characterization:	Unlikely	
Physical Indirectors:	None	
Flow:	None	
Date of Inspection: 9/2/2015	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Comments:	Free chlorine 0, E.C. 1636.	
Non-Illicit Discharge Concerns:	No	
Overall Outfall Characterization:	Unlikely	
Filysical indicators Fresent not Kei	aled to Flow. None	

Flow: Yes

Trickle Flow Description: Approximate Flow: 21 gpm 14 °C Temperature: pH: 7.3 pH Units Ammonia: 0.0 mg/l Total Chlorine: 0.00 mg/l Total Copper: 0.0 mg/l **Total Phenol:** 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	Outfall location: -88.35768343940, 44.28659025600. Free chlorine reading: 0 mg/l





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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AC-12 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

Outfall Location:	
Outfall Description:	
Conveyance Type:	Close Pipe



8 PVC discharges to USH 41 right-of-way.



Date of Inspection: 8/16/2016

Flow: None

Material: Shape:

Diameter:

Number of Pipes:

Submerged in Water:

Submerged in Sediment:

Physical Indicators Present not Related to Flow: Yes

PVC

1 8"

No

Partially

Circular

Date of Inspection: 10/7/2	014 Inspec	tor: Nolan Knapp	Pre	evious Rain Fall (I	Hours): > 72
Comments:		Outfall pipe is 3 cleaning.	/4 full of landscape mulch/ debris and is in	n need of	
Non-Illicit Discharge Con	cerns:	Yes			
Overall Outfall Characteri	zation:	Unlikely			
Physical Indirectors:		None			
Flow:		None			
Date of Inspection: 8/28/2	015 Inspec	tor: Nolan Knapp	Pre	evious Rain Fall (I	Hours): > 72
Comments:			0, temp 22.2, E.C. 1073. All other param	eters non detect.	
Overall Outfall Characteriz Non-Illicit Discharge C		Unlikely No			
Pipe Benthic Growth:		L In Blanks			
Poor Pool Quality:	Oil Sheen		Sheen could be organic material relation growth.	ted to pond	
Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation:	Description		Comments		

Flow:	None
Physical Indirectors:	None
Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	Outfall location: -88.41999623960, 44.29819938790.



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AD-345 US1 Outfall Type: Major - Alternate Location MS4 Jurisdicton: City of Appleton

Upstream manhole (AD-38) located approx 303 ft NNW of outfall AD-38-X. Intermediate area consists of park space and highway right-of-way. (Formerly AD-38-X US1) Concrete MH

Outfall Description:

Date of Inspection: 8/16/2016

Outfall Location:

Conveyance Type:	Close Pipe
Material:	Concrete MH
Shape:	Concrete MH
Number of Pipes:	
Size:	-99999" x -99999"
Submerged in Water:	
Submerged in Sediment:	



Previous Rain Fall (Hours): > 72

Flow:	None
Physical Indirectors:	None
Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	GPS verification is 44 degrees 17'58.2364"N 88 degrees 23'58.7955"W. GPS is upstream manhole. Actual outfall is approximately 100 yards to the south beyond a fence line in US41 right of way. Tested pool. pH 6.0, temp 23.0, E.C. 462.

Inspector: Nolan Knapp





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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AE-17 US Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Concrete MH (AE-1) approximately 210 feet north of AE-17 on north side of Prospect Ave. Immediate area includes street right of way and residential land. Concrete MH

Outfall Description:

Outfall Location:

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole - Concrete
Number of Pipes:	1
Diameter:	21"
Submerged in Water:	No
Submerged in Sediment:	No





Date of Inspection: 7/21/2016	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	No	
Comments:	Outfall is satisfactory. Slight standing too shallow to sample. No evidence	
Date of Inspection: 8/12/2015	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Date of Inspection: 8/12/2015 Flow:	Inspector: Nolan Knapp None	Previous Rain Fall (Hours): > 72
·		Previous Rain Fall (Hours): > 72
Flow:	None	Previous Rain Fall (Hours): > 72
Flow: Physical Indirectors:	None None	Previous Rain Fall (Hours): > 72



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AH-2 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

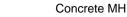
Outfall Location:

Comments:

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

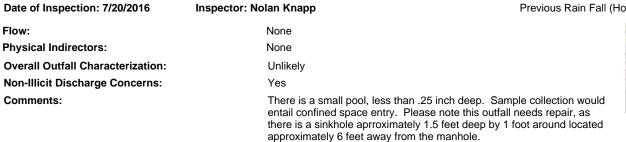
Tuckaway La storm sewer discharges into STH 47 right-ofway. (Formerly AH-1-Y)







Previous Rain Fall (Hours): > 72





Date of Inspection: 9/15/2015	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: Physical Indirectors: Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:	None None Unlikely No Slight standing water in b	ottom of channel, but no flow.
Date of Inspection: 9/18/2014	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: Physical Indirectors:	None None	

Overall Outfall Characterization: Unlikely Non-Illicit Discharge Concerns: No Outfall location: -88.42364923410, 44.23586215590.





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Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Previous Rain Fall (Hours): > 72

Outfall ID: AJ-15 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

Concrete channel discharges into STH 441 right-of-way through one 24 RCP and two elevated 15 RCP. (Formerly SV-X)

Outfall Description:

Outfall Location:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	3
Diameter:	24"
Submerged in Water:	No
Submerged in Sediment:	Partially





Date of Inspection: 7/20/2016

Flow: Yes Flow Description: Trickle Approximate Flow: 0 gpm Temperature: 26 °C 7.4 pH Units pH: Ammonia: 0.0 mg/l Total Chlorine: 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Prese	ent not Related to Flo	ow: Yes		
Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality:	Description		Comments	
Pipe Benthic Growth:	Green		Some green growth due to sub sediment.	strate in the
Overall Outfall Characteri Non-Illicit Discharge C Comments:		Unlikely No Free chlorine 0, E.C	C. 1353. Jim Becker notified regard	ding benthic growth in channel.
Date of Inspection: 8/6/20	15 Inspec	tor: Nolan Knapp		Previous Rain Fall (Hours): > 72
Flow: None				
Physical Indicators Prese	ent not Related to Flo	ow: Yes		1
Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	Description Flow Line		Comments	200
Overall Outfall Characteri Non-Illicit Discharge C Comments:		Unlikely No -88.40839375000.4		



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Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AK-9 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

Schindler PI storm sewer discharges to concrete channel from west. (Formerly AK-6-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	30"
Submerged in Water:	No
Submerged in Sediment:	Partially

Date of Inspection: 7/20/2016

Flow: None





Previous Rain Fall (Hours): > 72

Physical Indicators Prese	ent not Related to Flo	ow: Yes	
Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	Description Green	Comments	
Overall Outfall Characteri Non-Illicit Discharge C Comments:		Unlikely No No flow, but tested pool quality. pH 7.1, temp detergent, copper, phenol non-detect.	22.3, E.C. 1296. Free & total chlorine, ammona,
Date of Inspection: 8/6/20	15 Inspec	or: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: None			
Physical Indicators Prese	ent not Related to Flo	ow: Yes	a second and a second
Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	Description Green	Comments	
Overall Outfall Characteri Non-Illicit Discharge C Comments:		Unlikely No -88.40846208333, 44.23529844444	



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Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AL-3 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

Schindler PI storm sewer discharges to concrete channel from west. (Formerly AL-1-X)

Outfall Description:

Close Pipe
RCP
Circular
1
18"
No
Partially





Previous Rain Fall (Hours): > 72

Flow: None

Date of Inspection: 7/20/2016

Physical Indicators Present not Related to Flow: Yes

Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	Description Green	Comments	
Overall Outfall Character Non-Illicit Discharge C Comments:		Unlikely No Pool of stagnant water present. Pool too shallow to	collect sample.
Date of Inspection: 8/6/20)15 Inspec	tor: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: None			
Physical Indicators Prese	ent not Related to Fl	ow: Yes	43. 444
Indicator	Description	Comments	

Pipe Benthic Growth: Green

Overall Outfall Characterization: Non-Illicit Discharge Concerns:

Comments:

Unlikely No -88.40844708333, 44.23605844444



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AQ-124 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location:

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	54"
Submerged in Water:	No
Submerged in Sediment:	No



Storm sewer from Edgewood Dr discharges to stream from



Previous Rain Fall (Hours): > 72

Date of Inspection: 8/16/2016 Flow: Yes Inspector: Nolan Knapp

Flow Description:	Trickle
Approximate Flow:	12 gpm
Temperature:	25 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

south. (Formerly AQ-90-X)



Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	GPS verification is 44 degrees 19'08.3224"N 88 degrees 23'22.1415"W. Free chlorine 0, E.C. 629



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Inspector: Nolan Knapp

Unlikely

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AQ-130 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location:

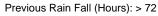
Detention basin discharges through CTH JJ right-of-way. No screening point at entrance to right-of-way (pond outlet). Screened where pipe discharges to north ditch. (Formerly AW-18-XI)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	60"
Submerged in Water:	Partially
Submerged in Sediment:	No







Flow: None

Physical Indicators Present not Related to Flow: Yes

Description Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Colors Pipe Benthic Growth:

Date of Inspection: 8/16/2016

Overall Outfall Characterization:

Non-Illicit Discharge Concerns: Comments:

Comments



Slightly green pool.

No GPS verification is 44 degrees 18'59.2144"N 88 degrees 23'30.5895"W . No flow, but tested pool. No detects on all parameters.



Outfall Location:

City of Appleton

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Concrete MH

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AX-45 US Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Upstream manhole (AX-58) approximately 179 feet southwest of AX-45 at SE intersection of CTH KK and Coop Rd. Immediate area includes street right of way and grass space.

Outfall Description:

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole - Concrete
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No





Date of Inspection: 8/11/2016	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	No	
Comments:	None	
Date of Inspection: 9/24/2015	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	No	
Comments:		e -88.34273377778, 44.24348011111



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Concrete MH

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AX-45 US2 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Concrete MH (AX-41) approximately 410 feet west of AX-45 US. Immediate surroudings include street right of way and commercial land.

Outfall Description:

Outfall Location:

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole - Concrete
Number of Pipes:	1
Diameter:	24"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Previous Rain Fall (Hours): > 72



Date of Inspection: 9/24/2015

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Date of Inspection: 8/11/2016

Physical Indirectors:

Flow Description:

Temperature:

Ammonia:

Flow: Yes

pH:

Comments:

Flow:

Trickle 19 °C 7.0 pH Units 0.0 mg/l 0.00 mg/l 0.0 mg/l 0.0 mg/l 0.0 mg/l

Total Chlorine: Total Copper: **Total Phenol:** Detergents:

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	GPS of supplemental manhole -88.34442877778, 44.24346680556

None

None

No

Inspector: Nolan Knapp

None

Unlikely



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Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AX-48 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall	Location:
Outfall	Description:

Southwest pond inlet pipe. (Formerly AX-28-X)

Conveyance Type:	Close Pipe	
Material:	RCP	and the second se
Shape:	Circular	100
Number of Pipes:	1	
Diameter:	36"	
Submerged in Water:	No	
Submerged in Sediment:	Partially	





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Previous Rain Fall (Hours): > 72

Date of Inspection: 8/11/20	16
Flow: None	

Physical Indicators Present not Related to Flow: Yes

Indicator Desc		Comments	
Outfall Damage:			
Deposits / Stains: Flow Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	Line		216 d2*15
Overall Outfall Characterization:	Unlikely		
Non-Illicit Discharge Concerns	No No		
Comments:	None		
Date of Inspection: 8/6/2015	Inspector: Nolan Knapp	Previous R	Rain Fall (Hours): > 72
Flow:	None		
Physical Indirectors:	None		
Overall Outfall Characterization:	Unlikely		
Non-Illicit Discharge Concerns:	No		
Comments:	Slight sediment bui	ldup from when pipe was submerged.	
Date of Inspection: 10/7/2014	Inspector: Nolan Knapp	Previous R	Rain Fall (Hours): > 72
Flow: None			

Physical Indicators Present not Related to Flow: Yes

Indicator Description **Outfall Damage:** Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Colors Pipe Benthic Growth:

Comments

Cloudy water observed at time of inspection.

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

No Outfall location: -88.35152042640, 44.23893239540.



Unlikely



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: BB-229 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall	Location:
Outfall	Description:

Comments:

(Formerly BB-5-X)

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	48"
Submerged in Water:	Partially
Submerged in Sediment:	No





Date of Inspection: 7/20/2016	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	and the second sec
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	Yes	
Comments:		pH 7.2, temp 21.3, E.C. 1752. All other v tree has fallen just in front of the pipe, n picture.
Date of Inspection: 8/13/2015	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	No	28 e. 4
Comments:	None	ar 2015 (68, 19
Date of Inspection: 9/18/2014	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	No	

Outfall location: -88.40684439160, 44.25071514300.

McMahon, 1445 McMahon Drive, PO Box 1025, Neenah, WI 54957-1025 Phone: 920-751-4200 Fax: 920-751-4284



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: BY-3 Outfall Type: Minor

MS4 Jurisdicton: City of Appleton/Town of Grand Chute

Outfall	Location:
Outfall	Description:

Southwest corner of Lilas Dr/Franklin St intersection



Date of Inspection: 7/21/2016	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	No	
Comments:	Standing water in the bottom of get a sample. No evidence of p	manhole. Water depth too shallow to rior illicit discharge.

Inspector: Nolan Knapp

Date of Inspection: 8/12/2015

F	low:	Yes

Flow Description: Temperature: pH:	Trickle 21 °C 8.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l



Previous Rain Fall (Hours): > 72



Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:	Unlikely No None	
Date of Inspection: 9/19/2014	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	No	
Comments:	Outfall location: -88.45102150	0000, 44.26354177778.

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: CC-116 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location:

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	72"
Submerged in Water:	No
Submerged in Sediment:	No



Ravine east of wastewater treatment plant discharges to

Fox River through 72 RCP. (Formerly CC-15-X)



Previous Rain Fall (Hours): > 72

Flow: Yes

Date of Inspection: 8/9/2016

Inspector: Nolan Knapp

Flow Description:	Trickle
Approximate Flow:	5 gpm
Temperature:	23 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:	Unlikely No E.C. 943	
Date of Inspection: 8/6/2015	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: Physical Indirectors: Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:	None None Unlikely No None	2015-02-02
Date of Inspection: 10/10/2014	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72

Flow: Physical Indirectors: Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments: None None Unlikely No Outfall location: -88.37096173130, 44.26774877540



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: CC-97 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	72"
Submerged in Water:	No
Submerged in Sediment:	No



72 RCP discharges to ravine from south. (Formerly CC-15-



Previous Rain Fall (Hours): > 72

Date of Inspection: 8/9/2016

Flow: Yes

Inspector: Nolan Knapp

Flow Description:	Trickle
Approximate Flow:	3 gpm
Temperature:	20 °C
pH:	8.0 pH Units
Ammonia:	4.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: Yes

r nyelear maleatere r			
Indicator	Description	Severity Index	
Odor:			
Color:			
Turbidity:			
Floatables:	Suds	Some, indications of origin; (e.g., possible suds or oil sheen)	AL (10 10)
Cold Weather:			
Physical Indicators P	resent not Related to Flow: Yes		
Indicator	Description	Comments	
Outfall Damage:	-		

Deposits / Stains: Flow Line Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Overall Outfall Characterization:

Non-Illicit Discharge Concerns: Comments: Suspect (One or more indicators with a severity or 3) No Ammonia detect of 4.0 mg/l found at outfall. Suds present

Ammonia detect of 4.0 mg/l found at outfall. Suds present in pool. Jim Becker was notified. Tracked flow to manhole CC-15, which had an ammonia detect of 1.0 mg/l. Checked ammonia at manhole CC-16, no detect there. Picture was taken at manhole CC-16 (not shown). EC is 800.



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: CC-97 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Date of Inspection: 8/6/2015 Inspector: Nolan Knapp Previous Rain Fall (Hours): > 72 Flow: Yes Flow Description: Trickle Approximate Flow: 2 gpm Temperature: 13 °C pH: 8.4 pH Units Ammonia: 6.0 mg/l **Total Chlorine:** 0.00 mg/l Total Copper: 0.0 mg/l **Total Phenol:** 0.0 mg/l Detergents: 0.0 mg/l Physical Indicators Present within Flow: Yes Indicator Description Severity Index Odor: Color: Turbidity: Floatables: Suds Some, indications of origin; (e.g., possible suds or oil sheen) Cold Weather: Physical Indicators Present not Related to Flow: Yes Description Comments Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Oil Sheen Pipe Benthic Growth: **Overall Outfall Characterization:** Potential (Presence of one or more indicators) Non-Illicit Discharge Concerns: No Comments: Infrastructure satisfactory. Oil sheen present, brown suds, and a 6.0 ppm ammonia residual present. Source is a cracked storm sewer on the premises of the WWTP, allowing biosolids leachate to enter the outfall. City is presently rehabilitating the pipe of concern. Date of Inspection: 10/10/2014 Inspector: Nolan Knapp Previous Rain Fall (Hours): > 72 Flow: Yes Trickle Flow Description: Approximate Flow: 2 gpm Temperature: 9 °C 7.5 pH Units pH: Ammonia: 0.0 mg/l Total Chlorine: 0.00 mg/l Total Copper: 0.0 mg/l **Total Phenol:** 0.0 mg/l 0.0 mg/l Detergents: **Physical Indicators Present within Flow: None** Physical Indicators Present not Related to Flow: Yes Description Indicator Comments

Outfall Damage: Deposits / Stains: Flow Line Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Unlikely No Outfall location: -88.37122483180, 44.26568023840. Free chlorine reading: 0 mg/l.

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Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: DD-175 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

Outfall Location:

Outfall #1 at wastewater treatment plant. MS4 drainage per WWTP. No formal outfall name. (Formerly WWTP1) 24

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Size:	66" x 42"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: Yes

Date of Inspection: 7/26/2016

Flow Description: Trickle Approximate Flow: 8 gpm 20 °C Temperature: 8.2 pH Units pH: Ammonia: 1.0 mg/l **Total Chlorine:** 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present not Related to Flow: None

 Overall Outfall Characterization:
 Potential (Presence of one or more indicators)

 Non-Illicit Discharge Concerns:
 No

 Comments:
 Received an ammonia detect of 1.0 mg/l. Tracked back to manhole DD-2, which has a detect of 0.5 mg/l. Tracked south to manhole DD-3 which had a detect of 1.0 mg/l. Manhole DD-3 showed 3 pipes; one shallow from the church parking lot catch basins, one running parallel with railroad tracks which had a trickle, and another pipe leading back to Newberry St. Jim Becker tracked flow to King Ct, which had no ammonia present. It was determined manhole DD-3 was leaking.

Date of Inspection: 8/6/2	015 Inspec	tor: Nolan Knapp	Previous Rain F	all (Hours): > 72
Flow: None				
Physical Indicators Pres	ent not Related to Fl	ow: Yes		A second second
Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality:	Description Oil Sheen		Comments Very slight sheen on standing water in outfall.	
Pipe Benthic Growth: Overall Outfall Character Non-Illicit Discharge Comments:		Unlikely No None		



Flow: None

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100 North Appleton Street Appleton, WI 54911 (920) 832-6489

Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: DD-175 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

Previous Rain Fall (Hours): > 72

Physical Indicators Present not Related to Flow: Yes

IndicatorDesOutfall Damage:FloDeposits / Stains:FloAbnormal Vegetation:Poor Pool Quality:Pipe Benthic Growth:Flo

Date of Inspection: 10/8/2014

Description Flow Line

Comments



Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments: Unlikely No Outfall location: -88.37534600820, 44.26691021180.



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

12

Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: E-58 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

Outfall Location:

12 PVC discharges to small bay. Ultimately discharges through grate under apartments and into river. (Formerly E-37-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	12"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: Yes

Date of Inspection: 7/26/2016

Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Comments:

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Green

Flow Description: Trickle Approximate Flow: 0 gpm Temperature: 28 °C pH: 7.1 pH Units Ammonia: 0.0 mg/l **Total Chlorine:** 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes Indicator Description Comments Outfall Damage: Concrete bank is spalling due to corrosion. Corrision Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth: Green Slight green growth coming out of pipe. **Overall Outfall Characterization:** Potential (Presence of one or more indicators) Non-Illicit Discharge Concerns: Yes Comments: E.C. is 1830 Previous Rain Fall (Hours): > 72 Date of Inspection: 9/1/2015 Inspector: Nolan Knapp Flow: None Physical Indicators Present not Related to Flow: Yes Indicator Description Comments Outfall Damage: Spalling, Cracking Or Chipping Headwall is cracked around pipe. Exposed rebar below pipe. Deposits / Stains:



Unlikely

Yes

None



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: E-58 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

Previous Rain Fall (Hours): > 72

Date of Inspection: 9/19/2014 Flow: None

Inspector: Nolan Knapp

Physical Indicators Present not Related to Flow: Yes

Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Description Spalling, Cracking Or Chipping

Unlikely

Comments

Structural damage to headwall below pipe.



Overall Outfall Characterization:

Non-Illicit Discharge Concerns: Comments:

Yes Outfall location: -88.40511719580, 44.25894455210.

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City of Appleton

100 North Appleton Street Appleton, WI 54911 (920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: E-60 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

Outfall	Location:
Outfall	Description:

Outfall Description:		42
Conveyance Type:	Close Pipe	
Material:	RCP	
Shape:	Circular	
Number of Pipes:	1	
Diameter:	42"	
Submerged in Water:	Partially	

 Diameter:
 42"

 Submerged in Water:
 Partially

 Submerged in Sediment:
 No

Inspector: Nolan Knapp





Previous Rain Fall (Hours): > 72

Yes	
	Yes

Date of Inspection: 7/26/2016

Flow Description: Trickle 29 °C Temperature: pH: 6.9 pH Units Ammonia: 0.0 mg/l **Total Chlorine:** 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Potential (Presence of one or more indicators) No

42 RCP discharges to river. (Formerly E-1-X)

Due to partial outfall submergence, tracked back to manhole tee at corner of Durkee and Lawrence. Free chlorine residual of 1.2 mg/l. E.C. 325. All other parameters non detect. Flow was coming from the direction of Zuelke building on College, a known chlorine residual discharger in 2015. Jim Becker notified. Residual in line with city drinking water residual.

Date of Inspection: 9/1	/2015 Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: Yes		
Flow Description:	Trickle	
Approximate Flow:	47 gpm	
Temperature:	25 °C	and the second sec
pH:	7.4 pH Units	
Ammonia:	0.0 mg/l	
Total Chlorine:	1.40 mg/l	
Total Copper:	0.0 mg/l	
Total Phenol:	0.0 mg/l	
Detergents:	0.0 mg/l	

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:	No	Potential (Presence of one or more indicators) No Free chlorine 1.4. Jim Becker from inspections notified about the chlorine residual hit.	
Date of Inspection: 9/25/2014	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72	
Flow:	None		
Physical Indirectors:	None	South States	
Overall Outfall Characterization:	Unlikely		
Non-Illicit Discharge Concerns:	No		
Comments:	Outfall location: -88.4024844947	70, 44.25924748790.	



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24

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: HH-100 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location:

24 RCP discharges to stream. Major outfall due to industrial land use. (Formerly HH-68-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	24"
Submerged in Water:	Partially
Submerged in Sediment:	Partially





Previous Rain Fall (Hours): > 72

Flow: Yes

Total Copper:

Total Phenol:

Detergents:

Date of Inspection: 7/26/2016

Inspector: Nolan Knapp

Flow: Yes

Flow Description: Moderate Approximate Flow: 161 gpm 23 °C Temperature: 6.4 pH Units pH: Ammonia: 0.0 mg/l Total Chlorine: 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present not Related to Flow: None

r nysical indicators r h	esent not related to 1 lo	W. NONE	
Overall Outfall Characterization: Unlikely Non-Illicit Discharge Concerns: No Comments: Free chlorine 0, E.C.		No	all in the past had chlorine residual, but no detect today.
Date of Inspection: 8/12/2015 Inspector: Nolan Knap		or: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: Yes			
Flow Description:	Moderate		
Approximate Flow:	170 gpm		
Temperature:	25 °C		
pH:	8.1 pH Units		
Ammonia:	0.0 mg/l		
Total Chlorine:	0.40 mg/l		

Physical Indicators Present not Related to Flow: None

0.4 mg/l

0.0 mg/l

0.0 mg/l

Overall Outfall Characterization:	Potential (Presence of one or more indicators)
Non-Illicit Discharge Concerns:	No
Comments:	Chlorine residual from Foremost Farms. The lack of any benthic growth in pipe or stream bank suggests residual has been sustained and high enough to prevent any normal benthic accumulation. Jim Becker was notified of the chlorine and copper hits.



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: HH-100 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Date of Inspection: 9/19/2014

Inspector: Nolan Knapp

Previous Rain Fall (Hours): > 72

Flow: Yes	
Flow Description:	Moderate
Approximate Flow:	284 gpm
Temperature:	21 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.80 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

ndicator Outfall Damage:	Description	Comments	
Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	Soil deposits		
Overall Outfall Character Non-Illicit Discharge (Comments:		Potential (Presence of one or more indicators) No Outfall location: -88.43654194260, 44.25743060010. Free chlorine reading: 0.80 mg/l. Jim Becker from City of Appleton notified and was onsite. High level of conf elevated chlorine coming from Foremost Farms.	idence discharge with

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36x64

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: HH-97 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location:

36x64 CMP discharges to pool of stream. (Formerly HH-1-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Elliptical
Number of Pipes:	1
Size:	38" x 56"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: Yes

Date of Inspection: 7/26/2016

Inspector: Nolan Knapp

Flow Description:	Moderate
Approximate Flow:	165 gpm
Temperature:	21 °C
pH:	6.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments: Date of Inspection: 8/12/2015		Unlikely Yes Free chlorine 0, E.C. 768. Some litter.		
		or: Nolan Knapp	Previous Rain Fall (Hours): > 72	
Flow: Yes				
Flow Description: Approximate Flow: Temperature: pH: Ammonia: Total Chlorine: Total Copper: Total Phenol: Detergents: Physical Indicators Pre	Moderate 121 gpm 22 °C 8.5 pH Units 0.0 mg/I 0.20 mg/I 0.0 mg/I 0.0 mg/I			

Overall Outfall Characterization:	Potential (Presence of one or more indicators)
Non-Illicit Discharge Concerns:	No
Comments:	Free chlorine 0.2. Pipe was replaced. No erosion control devices in place and no established vegetation at time of inspection.
	vegetation at time of inspection.



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: HH-97 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Date of Inspection: 9/19/2014

Inspector: Nolan Knapp

Previous Rain Fall (Hours): > 72

Flow: Yes	
Flow Description:	Moderate
Approximate Flow:	304 gpm
Temperature:	18 °C
pH:	7.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments	
Outfall Damage:	Corrosion	Top of pipe is dented and is corroded.	
Deposits / Stains:			
Abnormal Vegetation:			
Poor Pool Quality:			
Pipe Benthic Growth:			
Overall Outfall Charact	erization:	Unlikely	
Non-Illicit Discharge	e Concerns:	Yes	
Comments:		Outfall location: -88.45137418390, 44.25235578100. Free chlorine reading: 0 mg/l.	





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36

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: II-48 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location: Outfall Description:

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No

No



36 CMP discharges to river. (Formerly II-1-X)



Previous Rain Fall (Hours): > 72

Date of Inspection: 7/26/2016

Submerged in Sediment:

Inspector: Nolan Knapp

Flow: Yes

Trickle Flow Description: Approximate Flow: 28 gpm 18 °C Temperature: pH: 7.1 pH Units Ammonia: 0.0 mg/l Total Chlorine: 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Description

Corrision

Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments: **Comments** Apron partially collapsed due to corrosion.



Unlikely Yes Free chlorine 0, E.C. 1280. Corrosion is perforating the apron.



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: II-48 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Date of Inspection: 8/12/2015 Inspector: Nolan Knapp

Previous Rain Fall (Hours): > 72

Flow: Yes	
Flow Description:	Trickle
Approximate Flow:	9 gpm
Temperature:	20 °C
pH:	8.5 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: Yes

Colors

Abnormal Vegetation: Poor Pool Quality:

Pipe Benthic Growth:

Comments:

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Indicator Odor:	Description	Severity Index
Color:	Brown	Clearly Visible in Outfall Flow
Turbidity:	See Severity	Opaque
Floatables:		
Cold Weather:		
Physical Indicators Preser	nt not Related to Flow: Yes	
Indicator	Description	Comments
Outfall Damage:	Corrision	
Deposits / Stains:		



Potential (Presence of one or more indicators) Yes

-88.44043375000, 44.24443011111. Severe pipe corrosion, pipe and pan are perforating. Major soil erosion contributing to this outfall. pH and temp only analyzed, as the turbidity will skew the colorimeter results. Green Bay Pipe & TV was televising and cleaning pipes nearby, likely the source of the color and turbidity.

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72

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: J-141 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location:

Storm sewer discharges to river from south. (Formerly J-1- $\!X)$

Outfall Description:

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	72"
Submerged in Water:	Partially
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: Yes

Date of Inspection: 8/9/2016

Inspector: Nolan Knapp

Flow Description:	Trickle
Approximate Flow:	2 gpm
Temperature:	20 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Physical Indicators Present not	Related to Flow: None	
Overall Outfall Characterization Non-Illicit Discharge Concern Comments:	ns: No Due to	utfall partial submergence, sample was taken upstream manhole. E.C. 1948. All other er non detect.
Date of Inspection: 8/6/2015	Inspector: Nolan I	napp Previous Rain Fall (Hours): > 72
Flow: None		
Physical Indicators Present not	Related to Flow: Yes	
Indicator Des Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality:	scription	Comments Fox River essentially partially submerging this outfall
Pipe Benthic Growth:		
Overall Outfall Characterization Non-Illicit Discharge Concert Comments:	,	
Date of Inspection: 10/10/2014	Inspector: Nolan I	napp Previous Rain Fall (Hours): > 72
Flow: Physical Indirectors:	Non Non	,
Overall Outfall Characterization	-	ely
Comments:		all location: -88.36213616100 44.27171624580.



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: JJ-43 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location:

34x48 CMP discharges to stream west of subdivision. (Formerly JJ-1-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Elliptical
Number of Pipes:	1
Size:	48" x 34"
Submerged in Water:	Partially
Submerged in Sediment:	No



34x48





Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

IndicatorDeOutfall Damage:CoDeposits / Stains:FloAbnormal Vegetation:Poor Pool Quality:Pipe Benthic Growth:Flo

Date of Inspection: 8/16/2016

Description Corrision Flow Line Comments



Overall Outfall Characterization:

Non-Illicit Discharge Concerns: Comments: Potential (Presence of one or more indicators)

No

Inspector: Nolan Knapp

GPS verification is 44 degrees 17'26.6704"N 88 degrees 25'47.6415"W. Stagnant water in outfall and upstream manhole (not shown). Pool too shallow to test.



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-19 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location: Outfall Description:		E South Island 24	I St (Formerly KK-17-X)	
Conveyance Type:	Close Pipe			scontratup at
Material:	CMP			EIIKABATUO
Shape:	Circular		Provide State	KK-62
Number of Pipes:	1			
Diameter:	24"			
Submerged in Water:	Partially			A CEAL MEANE
Submerged in Sediment:	No		2014/02	
Date of Inspection: 7/20/	2016	Inspector: Nolan	Knapp	Previous Rain Fall (Hours): > 72
Flow:		Non	e	
Physical Indirectors:		Non	e	
Overall Outfall Character	rization:	Unl	kely	
Non-Illicit Discharge Cor	ncerns:	No		N 2285
Comments:			ted pool quality: pH 7.4, temp 22.5, E.C. 950. detect.	All other parameters
Date of Inspection: 9/2/2	015	Inspector: Nolan	Спарр	Previous Rain Fall (Hours): > 72
Flow:		Non	e	A AND A
Physical Indirectors:		Non	e	
Overall Outfall Character	rization:	Unl	kely	
Non-Illicit Discharge Cor	ncerns:	No		
Comments:		Nor	ie	
Date of Inspection: 9/18/	2014	Inspector: Nolan	Кпарр	Previous Rain Fall (Hours): > 72
Flow: None				
Physical Indicators Pres	ent not Relat	ed to Flow: Yes		
Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation:	Descript	ion	Comments	
Poor Pool Quality: Pipe Benthic Growth:	Colors		Cloudy water observed at time	of inspection.
Overall Outfall Character	ization:	Unlikely	,	
Non-Illicit Discharge (Concerns:	No		
Comments:		Outfall	Outfall location: -88.40174418970, 44.25621812730.	



Outfall Location:

City of Appleton

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E South Island St

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-21 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Description:		12		
Conveyance Type:	Close Pipe			
Material:	RCP			
Shape:	Circular	2		Presso A State
Number of Pipes:	1			KK-21
Diameter:	12"		A Chan	
Submerged in Water:	Partially			
Submerged in Sediment:	No			E EADLE FLATS SNW
Date of Inspection: 7/26/	2016	Inspector: Nolan Knapp	Prev	vious Rain Fall (Hours): > 72
Flow:		None		Charles and
Physical Indirectors:		None		
Overall Outfall Character	rization:	Unlikely		
Non-Illicit Discharge Cor	ncerns:	No		
Comments:			megence, outfall was tracked back to no ddle of South Island St.	on-flowing
Date of Inspection: 9/2/2	015	Inspector: Nolan Knapp	Prev	vious Rain Fall (Hours): > 72
Flow:		None		
Physical Indirectors:		None		
Overall Outfall Character	rization:	Unlikely		
Non-Illicit Discharge Cor	ncerns:	No		
Comments:		None		2015/08/02
Date of Inspection: 9/18/	2014	Inspector: Nolan Knapp	Prev	vious Rain Fall (Hours): > 72
Flow:		None		
Physical Indirectors:		None		
Overall Outfall Character	rization:	Unlikely		
Non-Illicit Discharge Cor	ncerns:	No		
Comments:				



Outfall Location:

City of Appleton

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E South Island St

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-61 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

Outfall Description:		12		
Conveyance Type:	Close Pipe		sourcesure 2	
Material:	STEEL		CUTAGAMIS	
Shape:	Circular		KK-62KK-61	
Number of Pipes:	1			ē
Diameter:	12"	1000		
Submerged in Water:	Partially		BALEANN	
Submerged in Sediment:	No		2015/09/02	
Date of Inspection: 7/20/	2016	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72	<u> </u>
Flow:		None	and the second se	1
Physical Indirectors:		None		
Overall Outfall Character	rization:	Unlikely		
Non-Illicit Discharge Cor	ncerns:	No	The second	2
Comments:		manhole/catch basin that	merged outfall back to E South Island St has a cover that is not removable with tools o water movement in the catch basin.	1
Date of Inspection: 9/2/2	015	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72	_
Flow:		None		
Physical Indirectors:		None		
Overall Outfall Character	rization:	Unlikely		
Non-Illicit Discharge Cor	ncerns:	No		
Comments:		two outfal pipes in the vic from the north. Picture fro	114 may have been inaccurate, as there are sinity. Map shows flow for this outfall coming om 2014 shows pipe coming from the south p picture is of pipe from the north.	
Date of Inspection: 9/18/	2014	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72	
Flow:		None		5
Physical Indirectors:		None		1
Overall Outfall Character	rization:	Unlikely	and the second se	
Non-Illicit Discharge Cor	ncerns:	No	and the second sec	



Date of Inspection: 7/20/2016

Non-Illicit Discharge Concerns:

Flow:

Comments:

City of Appleton

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Inspector: Nolan Knapp

None

None

No

no flow in upstream manhole.

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-66 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

Outfall Location: Outfall Description:		24 CMP discharges to river. (Formerly KK-1-X) 24
Conveyance Type:	Close Pipe	
Material:	RCP	
Shape:	Circular	
Number of Pipes:	1	
Diameter:	48"	Contraction of the second
Submerged in Water:	No	
Submerged in Sediment:	No	





Previous Rain Fall (Hours): > 72

Previous Rain Fall (Hours): > 72

100	
- Sitter	Jung Bar
To Part of the	3. 10 B
11.2	
	A A Start
	42016/07/20

Physical Indirectors: Overall Outfall Characterization:

Unlikely This outfall appears to be reabilitated/enlargened. Lies directly across the street from Between the Locks. Looks like a 48 inch rcp, but cannot verify due to accessibility issues with the 10> ft retaining wall. Verified

Date of Inspection: 8/13/2015 **Inspector: Nolan Knapp** Flow: None

Physical Indicators Prese	nt not Related to Flo	ow: Yes	
Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	Description Green	Comments	arts datas (
Overall Outfall Characteriz Non-Illicit Discharge Co Comments:		Unlikely No Pipe is wet, but just a slight standing water.	
Date of Inspection: 9/18/2	014 Inspec	or: Nolan Knapp	Previous Rain Fall (Hours): > 72
Date of Inspection: 9/18/20 Flow:	014 Inspec	c or: Nolan Knapp None	Previous Rain Fall (Hours): > 72
•	014 Inspec		Previous Rain Fall (Hours): > 72
Flow:	·	None	Previous Rain Fall (Hours): > 72
Flow: Physical Indirectors:	zation:	None None	Previous Rain Fall (Hours): > 72

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-68 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

Outfall Location: Outfall Description:

18 RCP discharges into river. (Formerly KK-44-X)
18

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No





Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
None Unlikely No None	
Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
None None Unlikely No None	015 00 0
Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
None None Unlikely No Quitfall location: -88 395917835	40.44.25732573460
	None Unlikely No None Inspector: Nolan Knapp None Unlikely No None Inspector: Nolan Knapp Inspector: Nolan Knapp Inspector: Nolan Knapp Unlikely None Unlikely



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

Concrete MH

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: KK-78 US Outfall Type: Minor - Alternate Location MS4 Jurisdicton: City of Appleton

Upstream curb inlet (KK-46A) located approx 10 ft NE of outfall KK-46-X. Intermediate area consists of street right-of-way. (Formerly KK-46-X US1)

Outfall Description:

Outfall Location:

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole/Catchbasin
Number of Pipes:	1
Diameter:	15"
Submerged in Water:	No
Submerged in Sediment:	No





Date of Inspection: 7/26/2016	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	cher a second
Non-Illicit Discharge Concerns:	No	
Comments:	Due to outfall submergence	e, checked upstream non flowing catch basin.
Date of Inspection: 9/2/2015	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	No	Contraction of the second
Comments:	None	and a server
Date of Inspection: 9/18/2014	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	No	
Comments:	GPS verified88.3977554	1667, 44.25654177778. Backwash from

GPS verified. -88.39775541667, 44.25654177778. Backwash from river into outfall. Upstream manhole flow verified.



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

Concrete MH

Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: N-319 U Outfall Type: Major - Alternate Location MS4 Jurisdicton: City of Appleton

Upstream manhole located approx 43 ft SE of outfall N-2-X. Intermediate area consists of recreation trail and open space. (Formerly N-2-X US)

Outfall Description:

Outfall Location:

Conveyance Type:	Close Pipe
Material:	Concrete MH
Shape:	Circular
Number of Pipes:	1
Diameter:	60"
Submerged in Water:	Partially
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: Yes

Date of Inspection: 7/26/2016

Flow Description:	Trickle
Temperature:	24 °C
pH:	7.1 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Unlikely	
Non-Illicit Discharge Concerns: No	
Comments: Outfall partially submerged. Tested up flow due to confined space, but appea	ostream manhole, and flow was present, but hard to quantify rs to be a trickle. E.C. 895.

Date of Inspection: 8/6	6/2015 Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 0
Flow: Yes		
Flow Description:	Trickle	
Temperature:	18 °C	
pH:	8.1 pH Units	
Ammonia:	0.0 mg/l	
Total Chlorine:	0.00 mg/l	
Total Copper:	0.0 mg/l	
Total Phenol:	0.0 mg/l	
Detergents:	0.0 mg/l	

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	Outfall N-319 screened at upstream manhole. Flow in manhole, but calculating flow not possible
	without confined space entry. GPS of supplemental manhole -88.38732611111, 44.25936002778.



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

72

Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: N-363 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

72 RCP from Fremont St discharges to riprap channel. (Formerly N-72-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	72"
Submerged in Water:	Partially
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 7/20/2016 Flow: Yes

Comments:

Flow Description: Trickle Approximate Flow: 20 gpm Temperature: 25 °C pH: 7.5 pH Units Ammonia: 0.0 mg/l Total Chlorine: 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characteriza Non-Illicit Discharge Con Comments:		Unlikely No Outfall is satisfactory.	
Date of Inspection: 9/15/20	15 Inspec	tor: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: Yes			
Flow Description: T	rickle		
Approximate Flow:	109 gpm		
Temperature:	20 °C		171
pH:	7.4 pH Units		
Ammonia:	0.0 mg/l		
Total Chlorine:	0.00 mg/l		
Total Copper:	0.0 mg/l		A Children Children
Total Phenol:	0.0 mg/l		
Detergents:	0.0 mg/l		
Physical Indicators Present	t not Related to FI	ow: None	
Overall Outfall Characteriza	ation:	Unlikely	
Non-Illicit Discharge Cor	ncerns:	No	

None



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: N-363 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Date of Inspection: 10/8/2014

Inspector: Nolan Knapp

Previous Rain Fall (Hours): > 72

-	•
Flow: Yes	
Flow Description:	Trickle
Approximate Flow:	15 gpm
Temperature:	11 °C
pH:	7.5 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	Description Graffiti Flow Line	Comments
Overall Outfall Characteriz Non-Illicit Discharge Co Comments:		Unlikely Yes Outfall location: -88.38809795840, 44.25127539730. Free chlorine reading: 0 mg/l.





100 North Appleton Street Appleton, WI 54911 (920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: P-85 US Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Concrete MH approximately 111 feet west of P-85 on north side of eastbound 441 offramp at Oneida St. Immediate area includes street and highway right of way. Concrete MH

Outfall Description:

Outfall Location:

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole - Concrete
Number of Pipes:	1
Diameter:	54"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Previous Rain Fall (Hours): > 72

Date of Inspection: 8/9/2016	Inspector: Nolan Knapp
Flow:	None
Physical Indirectors:	None
Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	None



Date of Inspection: 9/24/2015

Flow: Yes

Inspector: Nolan Knapp

Flow Description:	Trickle
Temperature:	18 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	GPS of supplemental outfall -88.40429375000, 44.23319844444



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

66

Inspector: Nolan Knapp

Inspector: Nolan Knapp

Unlikely

No

Inspector: Nolan Knapp

None

None

None

No

None

Unlikely

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: PP-22 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

66 RCP from Roemer Rd discharges to concrete spillway and flows to concrete channel on south side of Northland Av. (Formerly PP-1-X)



Date of Inspection: 8/2/2016

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Date of Inspection: 8/28/2015

Physical Indicators Present not Related to Flow: Yes

Physical Indicators Present not Related to Flow: Yes

Description

Description

Flow Line

Flow Line

Physical Indirectors:

Flow:

Comments:

Flow: None

Indicator

Outfall Damage: Deposits / Stains:

Comments:

Flow: None

Indicator

Outfall Damage: Deposits / Stains:

Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Overall Outfall Characterization:

Date of Inspection: 10/6/2014

Non-Illicit Discharge Concerns:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	66"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Previous Rain Fall (Hours): > 72



100

Previous Rain Fall (Hours): > 72



Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Unlikely No Outfall location: -88.36836406960, 44.28712740140.

Comments

Comments



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: PP-27 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

66 RCP from Roemer Rd discharges to NW corner of Conkey Pond. (Formerly PP-33-X) 66

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	66"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/3/2016 Flow: Yes

Comments:

Inspector: Nolan Knapp

Flow Description:	Trickle
Approximate Flow:	7 gpm
Temperature:	24 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

In	dicator	Description		Comments
0	utfall Damage:			
D	eposits / Stains:			
A	bnormal Vegetation:			
P	oor Pool Quality:			
Pi	ipe Benthic Growth:	Green		
Ove	rall Outfall Characteriza	tion:	Unlikely	
N	Ion-Illicit Discharge Con	cerns:	No	

E.C. 1848





Date of Inspection: 8/28/2015

City of Appleton

100 North Appleton Street Appleton, WI 54911 (920) 832-6489

Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: PP-27 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Previous Rain Fall (Hours): > 72

Flow: Yes			
Flow Description:	Trickle		
Approximate Flow:	7 gpm		
Temperature:	20 °C		
pH:	8.3 pH Units		
Ammonia:	0.0 mg/l		
Total Chlorine:	0.00 mg/l		
Total Copper:	0.0 mg/l		
Total Phenol:	0.0 mg/l		
Detergents:	0.0 mg/l		
Physical Indicators Present within Flow: None			
Physical Indicators Present not Related to Flow: Yes			
Indicator	Description		

Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	outfall Damage: leposits / Stains: bnormal Vegetation: oor Pool Quality:		Comments	
Overall Outfall Characte Non-Illicit Discharge Comments:		Unlikely No None		
Date of Inspection: 10/7	/2014 Inspecto	or: Nolan Knapp		Previ
Flow: Yes				
Flow Description: Approximate Flow: Temperature: pH: Ammonia: Total Chlorine: Total Copper: Total Phenol: Detergents:	Trickle 5 gpm 13 °C 7.3 pH Units 0.0 mg/l 0.0 mg/l 0.0 mg/l 0.0 mg/l 0.0 mg/l			

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	
Overall Outfall Characteri	zation:	Unlikely
Non-Illicit Discharge C	oncerns:	No
Comments:		Outfall location: -88.36465670150, 44.28532139530. Free chlorine reading: 0 mg/l



Previous Rain Fall (Hours): > 72





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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: PP-32 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

Outfall Description:

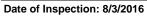
Close Pipe
RCP
Circular
1
36"
Partially
No



Conkey Pond outfall discharges to channel from south.



Previous Rain Fall (Hours): > 72



Date of Inspection: 8/28/2015

Inspector: Nolan Knapp

Inspector: Nolan Knapp

(Formerly PP-31-X)

Flow:	None
Physical Indirectors:	None
Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	No flow, but tested pool. pH 6.5, temp 23.1, E.C. 575. All other parameters non detect.



Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:	Trickle
Approximate Flow:	4 gpm
Temperature:	20 °C
pH:	8.2 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: Yes

Indicator	Description	Severity Index
Odor:		
Color:		
Turbidity:	See Severity	Slight Cloudiness
Floatables:		
Cold Weather:		

Unlikely

No



> 72

Overall Outfall Characterization: Non-Illicit Discharge Concerns:

Comments:		Slight turbidity in sample.	
Date of Inspection: 10/6/2	2014 Inspe	ctor: Nolan Knapp	Previous Rain Fall (Hours):
Flow: None			
Physical Indicators Prese	ent not Related to F	Flow: Yes	
Indicator Outfall Damage:	Description	Comments	
Deposits / Stains: Abnormal Vegetation: Poor Pool Quality:	Flow Line		
Pipe Benthic Growth:	Green		
Overall Outfall Character Non-Illicit Discharge C Comments:		Unlikely No Outfall location: -88.36378892790, 4	4.28575909570.



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

Close Pipe RCP

Circular

Partially

1

66"

No

66

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: QQ-58 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Description:

Outfall Location:

Conveyance Type:

Number of Pipes:

Submerged in Water:

Comments:

Submerged in Sediment:

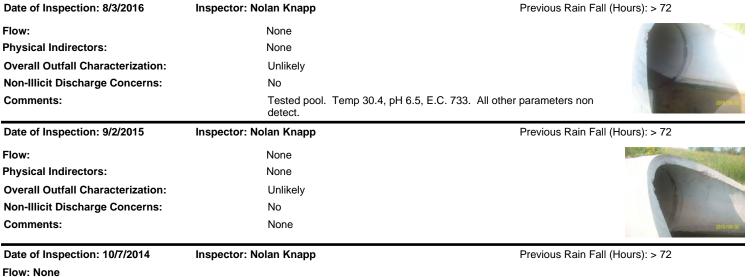
Material: Shape:

Diameter:

66 RCP discharges to Pershing Pond from south. (Formerly QQ-41-X)



Previous Rain Fall (Hours): > 72



Physical Indicators Present not Related to Flow: Yes

Indicator	Description		Comments
Outfall Damage:			
Deposits / Stains:			
Abnormal Vegetation:			
Poor Pool Quality:	Colors		Cloudy water observed at time of inspection.
Pipe Benthic Growth:			
Overall Outfall Characteriz	zation:	Unlikely	
Non-Illicit Discharge Co	oncerns:	No	



Outfall location: -88.35800118950, 44.28537130980.



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: QQ-59 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Description:

Outfall Location:

Conveyance Type:Close PipeMaterial:RCPShape:CircularNumber of Pipes:1Diameter:36"Submerged in Water:PartiallySubmerged in Sediment:No

Date of Inspection: 8/3/2016

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Date of Inspection: 9/2/2015

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Physical Indirectors:

Physical Indirectors:

Flow:

Flow:

Comments:

Comments:



36 RCP discharges to Pershing Pond from south.

(Formerly QQ-41-X2)

Inspector: Nolan Knapp

Inspector: Nolan Knapp

None

None

No

None

None

None

No

None

Unlikely

Unlikely



Previous Rain Fall (Hours): > 72



Previous Rain Fall (Hours): > 72



 Date of Inspection: 10/7/2014
 Inspector: Nolan Knapp

 Flow: None
 Physical Indicators Present not Related to Flow: Yes

 Indicator
 Description

 Outfall Damage:
 Deposits / Stains:

Abnormal Vegetation: Poor Pool Quality: Colors Pipe Benthic Growth:

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments: Comments

Cloudy water observed at time of inspection.



Unlikely No Outfall location: -88.35900802210, 44.28533328950.



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Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: QQ-60 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Pershing Pond discharges to stream from south. Backflow baffle installed. Replaces QQ-26-X pipe (from before pond). (Formerly QQ-26-X2)

Outfall Description:

Outfall Location:

Close Pipe
PVC
Circular
1
12"
No
No





Previous Rain Fall (Hours): > 72

Flow: Yes

Detergents:

Date of Inspection: 8/3/2016

Flow Description: Trickle Approximate Flow: 1 gpm Temperature: 29 °C pH: 6.5 pH Units Ammonia: 0.0 mg/l Total Chlorine: 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present not Related to Flow: None

Physical indicators Present not Related to Flow: None			
Overall Outfall Charact Non-Illicit Discharge Comments:		Unlikely No Free chlorine 0, E.C.725	
Date of Inspection: 9/2/2015 Inspector		pector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: Yes			
Flow Description:	Trickle		
Approximate Flow:	4 gpm		
Temperature:	29 °C		The second s
pH:	8.1 pH Uni	ts	
Ammonia:	0.0 mg/l		
Total Chlorine:	0.00 mg/l		
Total Copper:	0.0 mg/l		
Total Phenol:	0.0 mg/l		

Physical Indicators Present not Related to Flow: None

0.0 mg/l

Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	None



Date of Inspection: 10/7/2014

City of Appleton

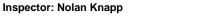
100 North Appleton Street Appleton, WI 54911 (920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: QQ-60 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Previous Rain Fall (Hours): > 72

Flow: Yes	
Flow Description:	Trickle
Temperature:	14 °C
pH:	8.1 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l





Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Unlikely No Outfall location: -88.35802614330, 44.28624646370. Free chlorine reading: 0 mg/l. Flow data hard to quantify due to backflow baffle.



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18

Inspector: Nolan Knapp

None

None

No

None

Unlikely

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: RR-25 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

18 RCP from Northland Av curb inlets discharges to channel from north. (Formerly RR-19-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/16/2016

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Physical Indirectors:

Flow:

Comments:





Previous Rain Fall (Hours): > 72



Previous Rain Fall (Hours): > 72

 Date of Inspection: 9/15/2015
 Inspector: Nolan Knapp

 Flow: None
 Inspector: Nolan Knapp

Physical Indicators Present not Related to Flow: Yes

Outfall Damage: Deposits / Stains:	cessive	Comments	
Overall Outfall Characterization Non-Illicit Discharge Concer	/		
Comments:		own in picture and obscured by growth.	
Date of Inspection: 10/7/2014	Inspector: Nolan Knapp		Previous Rain Fall (Hours): > 72
Flow:	None		
Physical Indirectors:	None		
Overall Outfall Characterization	n: Unlikely		
Non-Illicit Discharge Concerns	: No		
Comments:	Outfall location	on: -88.36498395110,44.28718671600.	and the second sec





100 North Appleton Street Appleton, WI 54911 (920) 832-6489

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: RR-26 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

18 RCP from Northland Av curb inlets discharges to concrete box culvert from north. No GPS in culvert. (Formerly RR-20-X)



Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No





Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
None	
None	
Unlikely	
No	
None	
Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
None	
None	





Date of Inspection: 10/6/2014

Date of Inspection: 8/16/2016

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Date of Inspection: 9/15/2015

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Physical Indirectors:

Physical Indirectors:

Flow:

Flow:

Comments:

Inspector: Nolan Knapp

Flow: None

Comments:

Physical Indicators Present not Related to Flow: Yes Indicator Description Comments Outfall Damage: Deposits / Stains: Flow Line Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth: **Overall Outfall Characterization:** Unlikely **Non-Illicit Discharge Concerns:** No Comments: Outfall location: -88.36587916760, 44.28718533580.

None

No

None

Unlikely

Previous Rain Fall (Hours): > 72





100 North Appleton Street Appleton, WI 54911 (920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: RR-29 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

Conkey St storm sewer discharges to concrete spillway and flows 28 ft to concrete channel. (Formerly RR-1-X) 48

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	48"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: Yes

Comments:

Date of Inspection: 8/3/2016

Inspector: Nolan Knapp

Flow Description:	Trickle
Approximate Flow:	1 gpm
Temperature:	22 °C
pH:	7.5 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Pres	ent not Related to Flo	ow: None		
Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:		Unlikely No E.C. 1772, free ch	nlorine 0	
Date of Inspection: 9/15/	2015 Inspect	or: Nolan Knapp		Previous Rain Fall (Hours): > 72
Flow: Yes				
Flow Description:	Trickle			
Approximate Flow:	10 gpm			
Temperature:	22 °C			
pH:	7.8 pH Units			
Ammonia:	0.0 mg/l			
Total Chlorine:	0.00 mg/l			
Total Copper:	0.0 mg/l			
Total Phenol:	0.0 mg/l			
Detergents:	0.0 mg/l			
Physical Indicators Pres	ent within Flow: None	e		
Physical Indicators Pres	ent not Related to Flo	ow: Yes		
Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	Description Green		Comments	
Overall Outfall Characte		Unlikely		
Non-Illicit Discharge		No		

None



Date of Inspection: 10/6/2014

City of Appleton

100 North Appleton Street Appleton, WI 54911 (920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: RR-29 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Previous Rain Fall (Hours): > 72

Flow: Yes Trickle Flow Description: Approximate Flow: 3 gpm Temperature: 15 °C 7.5 pH Units pH: Ammonia: 0.0 mg/l Total Chlorine: 0.00 mg/l 0.0 mg/l Total Copper: Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	
Overall Outfall Character	ization:	Unlikely
Non-Illicit Discharge (Concerns:	No
Comments:		Outfall location: -88.36381363490, 44.28685596960. Free chlorine reading: 0 mg/l.

Inspector: Nolan Knapp

211/10/0



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

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Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-30 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

36 CMP from Roemer Rd discharges into box culvert under Roemer Rd from north. No GPS in culvert. (Formerly SS-1 -X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/2/2016 Flow: Yes

Flow Description: Trickle Approximate Flow: 1 gpm Temperature: 24 °C pH: 7.0 pH Units Ammonia: 0.0 mg/l Total Chlorine: 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

IndicatorDescriptionOutfall Damage:CorrisionDeposits / Stains:Flow LineAbnormal Vegetation:Poor Pool Quality:Pipe Benthic Growth:Vertice

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Potential (Presence of one or more indicators) No Free chlorine 0, E.C. 883

Comments





Date of Inspection: 8/28/2015

City of Appleton

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Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Previous Rain Fall (Hours): > 72

Outfall ID: SS-30 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Flow: Yes Flow Description: Trickle Approximate Flow: 1 gpm Temperature: 20 °C pH: 8.4 pH Units Ammonia: 0.0 mg/l **Total Chlorine:** 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l **Physical Indicators Present within Flow: None** Physical Indicators Present not Related to Flow: Yes Indicator Description Comments Outfall Damage: Corrision Deposits / Stains: Flow Line Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth: **Overall Outfall Characterization:** Potential (Presence of one or more indicators) Non-Illicit Discharge Concerns: Yes Comments: None Date of Inspection: 10/6/2014 Inspector: Nolan Knapp Previous Rain Fall (Hours): > 72 Flow: Yes Flow Description: Trickle Approximate Flow: 1 gpm Temperature: 14 °C pH: 7.4 pH Units 0.0 mg/l Ammonia: **Total Chlorine:** 0.00 mg/l Total Copper: 0.0 mg/l **Total Phenol:** 0.0 mg/l Detergents: 0.0 mg/l





Physical Indicators Present within Flow: None

. ..

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrosion	
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		
Overall Outfall Characte	rization:	Potential (Presence of one or more indicators)
Non-Illicit Discharge	Concerns:	Yes
Comments:		Outfall location: -88.36862507440, 44.28719702200. Free chlorine reading: 0 mg/l.



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-32 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X1) $\,$

Outfall Description:

Date of Inspection: 8/2/2016

Flow: None

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Physical Indicators Present not Related to Flow: Yes			
Indicator	Description	Comments	
Outfall Damage:	Spalling, Cracking Or Chipping	Apron is chipped	
Deposits / Stains:			
Abnormal Vegetation:			
Poor Pool Quality:			
Pipe Benthic Growth:			
Overall Outfall Characteri	ization: Unlikely		

Inspector: Nolan Knapp

Yes None

Unlikely

Yes

Inspector: Nolan Knapp

None

None

None

No

Unlikely

Overall Outfall Characterization: Non-Illicit Discharge Concerns:

Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Comments:

Physical Indirectors:

Flow:

Comments:

Overall Outfall Characterization:

Date of Inspection: 10/6/2014

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Non-Illicit Discharge Concerns:

Non-Inicit Discharge Concerns.	
Comments:	

Date of Inspection: 8/28/2	015 Inspector: Nolan Knapp	
Flow: None		
Physical Indicators Present not Related to Flow: Yes		
Indicator	Description	
Outfall Damage:	Spalling, Cracking Or Chipping	
Deposits / Stains:		

Comments

Outfall location: -88.37414195130, 44.28718116300.



Previous Rain Fall (Hours): > 72



Previous Rain Fall (Hours): > 72





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18

Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-33 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X2)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Physical Indicators Present not Related to Flow: Yes

Date of Inspection: 8/2/2016

Flow: None





Previous Rain Fall (Hours): > 72

Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	Descrip Spalling,	i on Cracking Or Chipping	Comments Note the apron perforation in photo.	
Overall Outfall Characteriz Non-Illicit Discharge Co Comments:		Unlikely Yes None		
Date of Inspection: 8/28/20	015	Inspector: Nolan Knapp	Previous	Rain Fall (Hours): > 72
Flow: None Physical Indicators Preser	nt not Rela	ted to Flow: Yes		
Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	Descrip		Comments Concrete apron is cracked.	

Overall Outfall Characterization:

Non-Illicit Discharge Concerns: Yes None

Date of Inspection: 10/6/2014 Inspector: Nolan Knapp

Flow: None

Comments:

Physical Indicators Present not Related to Flow: Yes

Indicator	Description
Outfall Damage:	Spalling, Cracking Or Chipping

Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Yes Outfall location: -88.37336153930, 44.28718627910.

Comments

Concrete apron appears to have been patched, but difficult to ascertain if undercutting is still occurring.



Previous Rain Fall (Hours): > 72

Unlikely

Unlikely



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-34 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X3)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/2/2016

Inspector: Nolan Knapp

Flow: **Physical Indirectors: Overall Outfall Characterization:** Non-Illicit Discharge Concerns: Comments:

None None Unlikely No

GPS verification. 44 degrees 17'13.6744"N 88 degrees 22'21.2235"W.





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18

Inspector: Nolan Knapp

Inspector: Nolan Knapp

Unlikely

Unlikely

Yes

None

Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-35 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Description:

Outfall Location:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No



18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X4)



Previous Rain Fall (Hours): > 72

Flow: None

Date of Inspection: 8/2/2016

Date of Inspection: 8/28/2015

Overall Outfall Characterization:

Date of Inspection: 10/6/2014

Non-Illicit Discharge Concerns:

Flow: None

Indicator

Outfall Damage:

Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Comments:

Flow: None

Indicator

Outfall Damage:

Deposits / Stains: Abnormal Vegetation:

Physical Indicators Present not Related to Flow: Yes

Physical Indicators Present not Related to Flow: Yes

Physical Indicators Present not Related to Flow: Yes

Description

Description

Spalling, Cracking Or Chipping

Spalling, Cracking Or Chipping

Indicator	Description
Outfall Damage:	Spalling, Cracking Or Chipping
Deposits / Stains:	
Abnormal Vegetation:	
Poor Pool Quality:	
Pipe Benthic Growth:	
Overall Outfall Characteriza	tion: Unlikely
Non-Illicit Discharge Con	icerns: Yes
Comments:	None

Comments Apron is chipped and cracked

One side of the concrete apron is chipped.



Previous Rain Fall (Hours): > 72



Previous Rain Fall (Hours): > 72



Poor Pool Quality:

Pipe Benthic Growth:

Overall Outfall Characterization:

Non-Illicit Discharge Concerns: Comments:

Yes Outfall location: -88.37176009330, 44.28719439520.

Comments

Comments



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-36 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X5)18

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Date of Inspection: 8/2/2016

Flow: None



Inspector: Nolan Knapp



Previous Rain Fall (Hours): > 72

Physical Indicators Present not Rela	ted to Flow: Yes		and the second
IndicatorDescripOutfall Damage:Deposits / Stains:Abnormal Vegetation:Poor Pool Quality:Poor Pool Quality:Deposite Pool Quality:	tion	Comments	
Pipe Benthic Growth: Green		No pool to test, but slight growth o	n apron.
Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:	Unlikely No Outfall wet, but not fle	owing.	
Date of Inspection: 8/28/2015	Inspector: Nolan Knapp		Previous Rain Fall (Hours): > 72
Flow:	None		
Physical Indirectors:	None		Lar NA
Overall Outfall Characterization:	Unlikely		
Non-Illicit Discharge Concerns:	No		
Comments:	None		
Date of Inspection: 10/6/2014	Inspector: Nolan Knapp		Previous Rain Fall (Hours): > 72
Flow:	None		
Physical Indirectors:	None		
Overall Outfall Characterization:	Unlikely		
Non-Illicit Discharge Concerns:	No		The second se
Comments:	Outfall location: -	38.37099340100, 44.28720097930	



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18

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-39 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X6) $\,$

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: None

Date of Inspection: 8/2/2016

Physical Indicators Present not Related to Flow: Yes

I	Date of Inspection: 8/28/20)15	Inspector: Nolan Knapp		Previous Rain Fall (Hours): > 72
_	Comments:		None		
	Non-Illicit Discharge Co	ncerns:	No		
(Overall Outfall Characteriza	ation:	Unlikely		
	Pipe Benthic Growth:	Green		Slight growth on apron.	
	Poor Pool Quality:				No Part - Arrive
	Abnormal Vegetation:				
	Deposits / Stains:				
	Outfall Damage:				and the
	Indicator	Descriptio	on	Comments	

Inspector: Nolan Knapp

Flow: Yes

Flow Description: Trickle 20 °C Temperature: 8.0 pH Units pH: Ammonia: 0.0 mg/l Total Chlorine: 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator Description Comments	Call Service
Outfall Damage:	
Deposits / Stains:	
Abnormal Vegetation:	ALL NOT THE
Poor Pool Quality:	and the second s
Pipe Benthic Growth: Green	
Overall Outfall Characterization: Unlikely	
Non-Illicit Discharge Concerns: No	
Comments: Very slight flow. <.25 gpm, hard to quantify. Benthic growth present in	n flow.



Date of Inspection: 10/6/2014

City of Appleton

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-39 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Previous Rain Fall (Hours): > 72

Flow: Yes	
Flow Description:	Trickle
Approximate Flow:	5 gpm
Temperature:	14 °C
pH:	6.8 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:	Green	
Overall Outfall Character	ization:	Unlikely
Non-Illicit Discharge C	oncerns:	No
Comments:		Outfall location: -88.37023304650, 44.28720516930. Free chlorine reading: 0 mg/l.

Inspector: Nolan Knapp





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18

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-43 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X7)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/2/2016

Inspector: Nolan Knapp

Flow: **Physical Indirectors: Overall Outfall Characterization:** Non-Illicit Discharge Concerns: Comments:

None None Unlikely No

GPS verification 44 degrees 17'13.7044"N 88 degrees 22'09.4935"W





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72

Inspector: Nolan Knapp

Unlikely

Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: TT-28 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location:

Storm sewer discharges to Red Oak Ravine. (Formerly TT-26-X)

Outfall	Descri	ption:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	72"
Submerged in Water:	Partially
Submerged in Sediment:	No

Physical Indicators Present not Palated to Flaws Vac





Previous Rain Fall (Hours): > 72

rnysical indicators rresent not related to riow. Tes		
Indicator	Description	Comments
Outfall Damage:		
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:	Suds	Clear pool with a very minute level of suds/effervescence.

Pipe Benthic Growth:

Date of Inspection: 7/20/2016

Flow: None

Overall Outfall Characterization: Non-Illicit Discharge Concerns:

Non-Illicit Discharge Concerns: No Comments: Tes

Date of Inspection: 9/15/2015

Flow: Yes Flow Description: Trickle Approximate Flow: 1 gpm Temperature: 19 °C 7.6 pH Units pH: 0.0 mg/l Ammonia: **Total Chlorine:** 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present within Flow: Yes

Indicator	Description		Severity Index	
Odor:				
Color:				
Turbidity:				
Floatables:	Suds		Few / Slight; orgin not obvious	
Cold Weather:				
Overall Outfall Charac	cterization:	Unlikely		
Non Illigit Discharg	na Canaarna,	No		

Non-Illicit Discharge Concerns: Comments:

No None



Tested pool quality. pH 7.3, temp 20.7, E.C. of 1437. Free & total chlorine, ammonia, detergent, copper, phenol all non detectable.

Previous Rain Fall (Hours): > 72

pplecon

Date of Inspection: 9/18/2014

City of Appleton

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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: TT-28 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator Description Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality:

Excessive Algae

Comments

Temper flow diversion for Red Oak Ravine construction.

Pipe Benthic Growth:

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Unlikely No

Inspector: Nolan Knapp

Outfall location: -88.42159495720, 44.24113659840.





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60

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: U-20 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

60 RCP discharges to concrete channel on south side of Northland Av. (Formerly U-3-X DS)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	60"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/2/2016 Flow: Yes

Inspector: Nolan Knapp

Flow Description:	Trickle
Approximate Flow:	3 gpm
Temperature:	23 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l



Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization:

Non-Illicit Discharge Concerns: Comments: Suspect (One or more indicators with a severity or 3) No Free chlorine 0, E.C. of 3613. Jim Becker notified of high E.C. GPS verification is 44 degrees, 17'13.7944"N, 88 degrees 22'28.6575"N. Longview and Ballard cannot access manhole without

Pershing. Per Jim Becker, source seemed to come from Huntley Elementary.

traffic control. Also for Pershing and Ballard. E.C maxed the meter out (>3999) at Helen and



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Concrete MH

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-136 U Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Concrete MH approximately 440 feet east of V-136. Immediate area includes street right of way and residential land.

Outfall Description:

Outfall Location:

Conveyance Type:	Close Pipe
Material:	Manhole - Concrete
Shape:	Manhole - Concrete
Number of Pipes:	1
Diameter:	30"
Submerged in Water:	No
Submerged in Sediment:	No





Date of Inspection: 8/16/2016	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	No	and the second sec
Comments:	Stagnant water in manhole, too shallow to sample.	all
Date of Inspection: 9/24/2015	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Date of Inspection: 9/24/2015 Flow:	Inspector: Nolan Knapp None	Previous Rain Fall (Hours): > 72
•		Previous Rain Fall (Hours): > 72
Flow:	None	Previous Rain Fall (Hours): > 72
Flow: Physical Indirectors:	None None	Previous Rain Fall (Hours): > 72

McMahon, 1445 McMahon Drive, PO Box 1025, Neenah, WI 54957-1025 Phone: 920-751-4200 Fax: 920-751-4284



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48

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-335 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

48 RCP from Ballard Road enters box culvert from north. No GPS in culvert. (Formerly V-314-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	48"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/2/2016 Flow: Yes

Inspector: Nolan Knapp

Flow Description:	Moderate
Approximate Flow:	20 gpm
Temperature:	23 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Unlikely



Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization:
Non-Illicit Discharge Concerns:
Comments:

Yes Free chlorine 0, E.C. 1596. Debris buildup just downtream of outfall (not shown). GPS verification 44 degrees, 17'13.7944"N 88 degrees, 22'28.6575"N. Actual outfall 50 feet west of these coordinates under Ballard St bridge.



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36

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-336 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

36 RCP from McDonald St discharges to north side of 66 RCP. No GPS inside culvert. (Formerly V-141-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/11/2016

Flow: **Physical Indirectors: Overall Outfall Characterization:** Non-Illicit Discharge Concerns: Comments:

Inspector: Nolan Knapp

None None Unlikely No

GPS verification is 44 degrees 17'29.7304"N 88 degrees 23'10.4535"W. Actual outfall is 10 feet into the 66 rcp from this location.





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24

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-339 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

24 RCP from McDonald St discharges to south side of 66 RCP. No GPS inside culvert. (Formerly V-55-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	24"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/11/2016

Inspector: Nolan Knapp

Flow: Physical Indirectors: Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments: •

None None Unlikely No

GPS verification is 44 degrees 17'29.7304"N 88 degrees 23'10.4535"W. Actual outfall is 25 feet into 66 rcp from this location.





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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-342 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

Northland Ave storm sewer discharges into south end of Memorial Park detention basin. (Formerly V-341-X) 57x90

Outfall Description:

Conveyance Type:	Close Pipe
, , , , , , , , , , , , , , , , , , , ,	
Material:	RCP
Shape:	Elliptical
Number of Pipes:	1
Size:	90" x 57"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: Yes

Flow Description:

Date of Inspection: 8/11/2016

Trickle

Inspector: Nolan Knapp

Approximate Flow: Temperature: 21 °C pH: Ammonia: 0.0 mg/l Total Chlorine: 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

26 gpm 8.0 pH Units



Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	EC. 1847. GPS verification is 44 degrees 17'15.7384 N, 88 degrees 22'50.4195"W.



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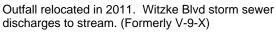
OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-344 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	Partially
Submerged in Sediment:	Partially



36



Previous Rain Fall (Hours): > 72

Date of Inspection: 8/11/2016

Inspector: Nolan Knapp

Flow:
Physical Indirectors:
Overall Outfall Characterization:
Non-Illicit Discharge Concerns:
Comments:

None None Unlikely No

Not flowing, but tested pool. pH 7.0, temp 22.8, E.C. 1185. All other parameters non detect. GPS verification is 44 degrees 17'29.5444"N 88 degrees 22'50.0835"W.





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48

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-355 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

Pond outlet with backflow prevention baffle. (Formerly V-352-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	48"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: Yes

Date of Inspection: 8/11/2016

Inspector: Nolan Knapp

Flow Description:	Trickle
Approximate Flow:	23 gpm
Temperature:	27 °C
pH:	6.5 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

ALL OF T

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	E.C. 740. GPS verification is 44 degrees 17'19.9744"N 88 degreess 22'45.2775"W



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24

Inspector: Nolan Knapp

Unlikely

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-382 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

24 RCP from Florida Av storm sewer discharges to concrete channel from north. (Formerly V-66-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	24"
Submerged in Water:	No
Submerged in Sediment:	No



Comments



Previous Rain Fall (Hours): > 72

Date of Inspection: 8/11/2016 Flow: None

Physical Indicators Present not Related to Flow: Yes

IndicatorDescriptionOutfall Damage:Deposits / Stains:Abnormal Vegetation:Poor Pool Quality:Pipe Benthic Growth:Green

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

No GPS verification is 44 degrees 17'28.3864"N 88 degrees 23'15.8115"W. Pipe and outfall is damp, but pool too shallow to sample.



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54

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-397 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

54 RCP from Florida Av discharges to concrete channel. (Formerly AD-89-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	54"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/16/2016 Flow: Yes

Inspector: Nolan Knapp

Flow Description:	Trickle
Approximate Flow:	2 gpm
Temperature:	23 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l



Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	Free chlorine 0, E.C. 1525. GPS verification is 44 degrees 17'26.5084"N 88 degrees 23'30.9195"W.



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24

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-400 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

24 RCP storm sewer from Park Drive La discharges to south side of 66 RCP. No GPS inside pipe. (Formerly AD-76-X)

Actual outfall is 30 feet into pipe.

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	24"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: Physical Indirectors: Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Date of Inspection: 8/16/2016

Inspector: Nolan Knapp

None

None Unlikely No GPS verification is 44 degrees,17'22.7164"N 88 degrees 23'21.1575"W.





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66

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-401 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

66 RCP storm sewer discharges north of 66 RCP culvert. Discharges to concrete channel. (Formerly V-11-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	66"
Submerged in Water:	No
Submerged in Sediment:	Partially





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/11/2016

Inspector: Nolan Knapp

Flow: **Physical Indirectors: Overall Outfall Characterization:** Non-Illicit Discharge Concerns: Comments:

None None Unlikely No

GPS verification is 44 degrees 17'30.7684"N 88 degrees 22'58.1295"W. Outfall is wet, but pool is too shallow to test; we would be testing mud.





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15

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-404 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

Witzke Blvd curb inlets discharge to stream. (Formerly V-10-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
	1
Diameter:	15"
Submerged in Water:	No
Ŭ	No
Number of Pipes: Diameter: Submerged in Water: Submerged in Sediment:	15" No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/11/2016

Inspector: Nolan Knapp

Flow: **Physical Indirectors: Overall Outfall Characterization:** Non-Illicit Discharge Concerns: Comments:

None None Unlikely No

GPS verification is 44 degrees 17'30.6484"N, 88 degrees 22'53.2215"W.





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60

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-405 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	60"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/11/2016

Inspector: Nolan Knapp

Flow: Physical Indirectors: Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

None None Unlikely No

Capitol Dr storm sewer discharges to north end of Memorial Park detention basin. (Formerly V-329-X)

The dark line in the outfall is a moisture line, not flow line. Outfall is satisfactory. GPS verification is 44 degrees 17'33.3964"N 88 degrees 22'37.0455"W.





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10

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-412 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

10 PVC from Northwood Dr curb inlets discharges to concrete channel from east. (Formerly GG-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	10"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/16/2016

Inspector: Nolan Knapp

Unlikely

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator
Outfall Damage:
Deposits / Stains:
Abnormal Vegetation:
Poor Pool Quality:
Pipe Benthic Growth:

Description Spalling, Cracking Or Chipping Comments



Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Yes GPS verification is 44 degrees 17'22.2**4"N 88 degrees 23'25.6995"W.



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-413 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

10 PVC from Northwood Dr curb inlets discharges to concrete channel from north. (Formerly HH-X)10

Outfall Description:

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	10"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/16/2016

Inspector: Nolan Knapp

Flow: None

Physical Indicators Present not Related to Flow: Yes

IndicatorDescriptionOutfall Damage:Deposits / Stains:Flow LineAbnormal Vegetation:Poor Pool Quality:Flow LinePipe Benthic Growth:Flow LineFlow Line

Overall Outfall Characterization: Non-Illicit Discharge Concerns:

Comments:

Unlikely No GPS verification is 44 degrees 17'24.2584"N, 88 degrees 23'29.2935"W.

Comments



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10

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-414 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

10 PVC from Northwood Dr curb inlets discharges to concrete channel from west. (Formerly EE-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	10"
Submerged in Water:	No
Submerged in Sediment:	No







Previous Rain Fall (Hours): > 72

Date of Inspection: 8/11/2016 Flow: None

Inspector: Nolan Knapp

Unlikely

Physical Indicators Present not Related to Flow: Yes

Indicator
Outfall Damage:
Deposits / Stains:
Abnormal Vegetation:
Poor Pool Quality:
Pipe Benthic Growth:

Description Spalling, Cracking Or Chipping Flow Line

Comments Cracking not impeding flow.



Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Yes GPS verification is 44 degrees, 17'25.4884"N, 88 degrees 23'18.4335"W.



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10

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-415 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

10 PVC from Northwood Dr curb inlets discharges to concrete channel from north. (Formerlly DD-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	10"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: None

Inspector: Nolan Knapp

Physical Indicators Present not Related to Flow: Yes

Indicator	Description
Outfall Damage:	Spalling, Cracking Or Chipping

Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Date of Inspection: 8/11/2016

Overall Outfall Characterization: Non-Illicit Discharge Concerns:

Comments:

Unlikely Yes

Comments

flow.

GPS verification is 44 degrees 17'29.4184"N 88 degrees 23'12.7635"W.

Some minor cracking on pipe end, not impeding



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12

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-430 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

12 PVC discharges to south side of 66 RCP culvert. No GPS inside pipe - location estimated from surface. (Formerly V-201-X)



Date of Inspection: 8/11/2016

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	12"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow:	None
Physical Indirectors:	None
Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	GPS verification is 44 degrees 17'30.7624"N 88 degrees 59.5515"W. This is the closest location without losing satellite signal. Outfall is about 8 feet into the 66 rcp from this location.

Inspector: Nolan Knapp





Outfall Location:

Conveyance Type:

Number of Pipes:

Submerged in Water:

Submerged in Sediment:

Date of Inspection: 8/16/2016

Material: Shape:

Diameter:

Outfall Description:

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Close Pipe PVC

Circular

1

10"

No

No

10

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-431 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

> CUTABAILUS CUTABAILUS Valia Valia

Previous Rain Fall (Hours): > 72

Previous Rain

Flow: Physical Indirectors: Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments: Inspector: Nolan Knapp

None None Unlikely Yes

10 PVC pipe from curb inlet discharges to north side of 66

RCP. No GPS inside pipe. (Formerly FF-X)

GPS verification is 44 degrees 17'22.7164"N 88 degrees 23'21.1575"W. Actual outfall is approx 10 feet into pipe. Graffiti noted in larger pipe.





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10

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-432 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

10 PVC from curb inlet discharges to east side of 54 RCP. No GPS in pipe. (Formerly II-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	10"
Submerged in Water:	No
Submerged in Sediment:	No



Comments



Previous Rain Fall (Hours): > 72

Flow: None

Comments:

Date of Inspection: 8/16/2016

Physical Indicators Present not Related to Flow: Yes

IndicatorDescriptionOutfall Damage:Deposits / Stains:Flow LineAbnormal Vegetation:Poor Pool Quality:Pipe Benthic Growth:Vertice

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Unlikely

Yes

Inspector: Nolan Knapp

GPS verification is 44 degrees 17'26.5084"N 88 degrees23'30.9195"W. This is coordinates of V-397. Actual outfall of V-432 is approximately 5 feet into the 54 inch RCP (V-397). Graffiti noted in larger pipe.





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48x68

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: W-260 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location:

Outfall Description:

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Arch
Number of Pipes:	1
Size:	68" x 48"
Submerged in Water:	Partially
Submerged in Sediment:	No



48x68 CMP extends under dock and discharges into river

by yacht club. (Formerly W-1-X)



Previous Rain Fall (Hours): > 72

Flow: Yes

Inspector: Nolan Knapp

Flow Description:

Date of Inspection: 8/2/2016

Temperature:21 °CpH:7.0 pH UnitsAmmonia:0.0 mg/lTotal Chlorine:0.00 mg/lTotal Copper:0.0 mg/lTotal Phenol:0.0 mg/lDetergents:0.0 mg/l

Physical Indicators Present not Related to Flow: None

Trickle

Overall Outfall Characterization:	Unlikely
Non-Illicit Discharge Concerns:	No
Comments:	Slight flow, but can't quantify unless perform confined space entry. E.C. 1659. All other parameters

Date of Inspection: 8/2	28/2015 Inspecto	r: Nolan Knapp		Previous Rain Fall (Hours): > 72
Flow: Yes				
Flow Description:	Trickle			
Temperature:	20 °C			
pH:	8.7 pH Units			
Ammonia:	0.0 mg/l			
Total Chlorine:	0.00 mg/l			
Total Copper:	0.0 mg/l			
Total Phenol:	0.0 mg/l			
Detergents:	0.0 mg/l			
Indicator	esent within Flow: Yes Description		Severity Index	
Odor: Color: Turkiditu				
Turbidity: Floatables:	Suds		Few / Slight; orgin not obvious	
Cold Weather:				
Overall Outfall Charac	terization:	Unlikely		
Non-Illicit Discharg		No		
Comments:			e, quantifying difficult without boat.	



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: W-260 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Date of Inspection: 9/19/2014Inspector: Nolan KnappFlow:NonePhysical Indirectors:NoneOverall Outfall Characterization:UnlikelyNon-Illicit Discharge Concerns:NoComments:Outfall location: -88.42047209260, 44.25085275310.

Previous Rain Fall (Hours): > 72



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54

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: Y-336 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Shape.	Circular
Number of Pipes:	1
i tambér ér i íþeði	•
Diameter:	54"
Submerged in Water:	No
Submerged in Sediment:	No
Submergeu in Seuiment.	INU



54 RCP discharges to riprap channel. Ultimately discharges through NN-1-X. (Formerly Y-266-X)



Previous Rain Fall (Hours): > 72

Flow: Yes

Comments:

Detergents:

Date of Inspection: 8/9/2016

Inspector: Nolan Knapp

Flow: Yes

Flow Description: Moderate Approximate Flow: 36 gpm 25 °C Temperature: 7.0 pH Units pH: Ammonia: 0.0 mg/l **Total Chlorine:** 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Non-Illicit Discharge Concerns:

Potential (Presence of one or more indicators) Yes Free chlorine 0.4, E.C.1116. Jim Becker notified regarding 0.4 mg/l chlorine from Appvion. Jim Becker claims Appvion has permit to discharge with the chlorine residual. Outfall pipe has considerable amount of graffiti on it.

Date of Inspection: 9/2	/2015 Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: Yes		
Flow Description:	Moderate	
Approximate Flow:	210 gpm	inger -
Temperature:	27 °C	
pH:	6.9 pH Units	24
Ammonia:	0.0 mg/l	
Total Chlorine:	1.60 mg/l	7
Total Copper:	0.0 mg/l	
Total Phenol:	0.0 mg/l	

Physical Indicators Present not Related to Flow: None

0.0 mg/l

 Overall Outfall Characterization:
 Potential (Presence of one or more indicators)

 Non-Illicit Discharge Concerns:
 No

 Comments:
 Complete lack of benthic growth suggests constant chlorine residual. Jim Becker was notified of the chlorine hit.



Date of Inspection: 9/26/2014

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Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: Y-336 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Previous Rain Fall (Hours): > 72

Flow: Yes Trickle Flow Description: Approximate Flow: 31 gpm Temperature: 19 °C 7.4 pH Units pH: Ammonia: 0.0 mg/l Total Chlorine: 0.60 mg/l 0.0 mg/l Total Copper: Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

•		
Indicator	Description	Comments
Outfall Damage:	Graffiti	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		
Overall Outfall Characte	erization:	Potential (Presence of one or more indicators)
Non-Illicit Discharge	Concerns:	Yes
Comments:		Outfall location: -88.39110664910, 44.27113130900.
		Free and total chlorine readings: 0.60 mg/l. Flow appears to be coming from Appvion, formerly Appleton Coated. Contacted Jim Becker regarding the detect.



APPENDIX C

2016 OUTFALL NON-ILLICIT DISCHARGE CONCERNS



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: AH-2 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

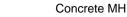
Outfall Location:

Comments:

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

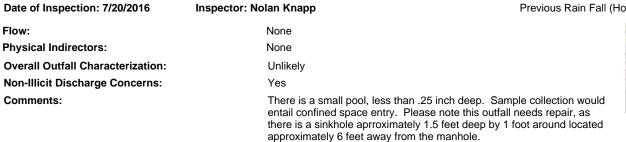
Tuckaway La storm sewer discharges into STH 47 right-ofway. (Formerly AH-1-Y)







Previous Rain Fall (Hours): > 72





Date of Inspection: 9/15/2015	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: Physical Indirectors: Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:	None None Unlikely No Slight standing water in b	ottom of channel, but no flow.
Date of Inspection: 9/18/2014	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: Physical Indirectors:	None None	

Overall Outfall Characterization: Unlikely Non-Illicit Discharge Concerns: No Outfall location: -88.42364923410, 44.23586215590.





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48

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: BB-229 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall	Location:
Outfall	Description:

Comments:

(Formerly BB-5-X)

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	48"
Submerged in Water:	Partially
Submerged in Sediment:	No





Date of Inspection: 7/20/2016	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	and the second sec
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	Yes	
Comments:		pH 7.2, temp 21.3, E.C. 1752. All other v tree has fallen just in front of the pipe, n picture.
Date of Inspection: 8/13/2015	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	No	28 e. 4
Comments:	None	ar 2015 (68, 19
Date of Inspection: 9/18/2014	Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow:	None	
Physical Indirectors:	None	
Overall Outfall Characterization:	Unlikely	
Non-Illicit Discharge Concerns:	No	

Outfall location: -88.40684439160, 44.25071514300.

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12

Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: E-58 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

Outfall Location:

12 PVC discharges to small bay. Ultimately discharges through grate under apartments and into river. (Formerly E-37-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	12"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: Yes

Date of Inspection: 7/26/2016

Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Comments:

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Green

Flow Description: Trickle Approximate Flow: 0 gpm Temperature: 28 °C pH: 7.1 pH Units Ammonia: 0.0 mg/l **Total Chlorine:** 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes Indicator Description Comments Outfall Damage: Concrete bank is spalling due to corrosion. Corrision Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth: Green Slight green growth coming out of pipe. **Overall Outfall Characterization:** Potential (Presence of one or more indicators) Non-Illicit Discharge Concerns: Yes Comments: E.C. is 1830 Previous Rain Fall (Hours): > 72 Date of Inspection: 9/1/2015 Inspector: Nolan Knapp Flow: None Physical Indicators Present not Related to Flow: Yes Indicator Description Comments Outfall Damage: Spalling, Cracking Or Chipping Headwall is cracked around pipe. Exposed rebar below pipe. Deposits / Stains:



Unlikely

Yes

None



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: E-58 Outfall Type: Minor MS4 Jurisdicton: City of Appleton

Previous Rain Fall (Hours): > 72

Date of Inspection: 9/19/2014 Flow: None

Inspector: Nolan Knapp

Physical Indicators Present not Related to Flow: Yes

Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Description Spalling, Cracking Or Chipping

Unlikely

Comments

Structural damage to headwall below pipe.



Overall Outfall Characterization:

Non-Illicit Discharge Concerns: Comments:

Yes Outfall location: -88.40511719580, 44.25894455210.

Appleton

City of Appleton

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36x64

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: HH-97 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location:

36x64 CMP discharges to pool of stream. (Formerly HH-1-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Elliptical
Number of Pipes:	1
Size:	38" x 56"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: Yes

Date of Inspection: 7/26/2016

Inspector: Nolan Knapp

Flow Description:	Moderate
Approximate Flow:	165 gpm
Temperature:	21 °C
pH:	6.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Charact Non-Illicit Discharge Comments:		Unlikely Yes Free chlorine 0, E.C. 768. Some litter.	
Date of Inspection: 8/1	2/2015 Inspect	or: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: Yes			
Flow Description: Approximate Flow: Temperature: pH: Ammonia: Total Chlorine: Total Copper: Total Phenol: Detergents: Physical Indicators Pre	Moderate 121 gpm 22 °C 8.5 pH Units 0.0 mg/I 0.20 mg/I 0.0 mg/I 0.0 mg/I		

Overall Outfall Characterization:	Potential (Presence of one or more indicators)
Non-Illicit Discharge Concerns:	No
Comments:	Free chlorine 0.2. Pipe was replaced. No erosion control devices in place and no established vegetation at time of inspection.
	vegetation at time of inspection.



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: HH-97 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Date of Inspection: 9/19/2014

Inspector: Nolan Knapp

Previous Rain Fall (Hours): > 72

Flow: Yes	
Flow Description:	Moderate
Approximate Flow:	304 gpm
Temperature:	18 °C
pH:	7.4 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrosion	Top of pipe is dented and is corroded.
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		
Overall Outfall Charact	erization:	Unlikely
Non-Illicit Discharge	e Concerns:	Yes
Comments:		Outfall location: -88.45137418390, 44.25235578100. Free chlorine reading: 0 mg/l.





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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: II-48 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location: Outfall Description:

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No

No



36 CMP discharges to river. (Formerly II-1-X)



Previous Rain Fall (Hours): > 72

Date of Inspection: 7/26/2016

Submerged in Sediment:

Inspector: Nolan Knapp

Flow: Yes

Trickle Flow Description: Approximate Flow: 28 gpm 18 °C Temperature: pH: 7.1 pH Units Ammonia: 0.0 mg/l Total Chlorine: 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

Description

Corrision

Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments: **Comments** Apron partially collapsed due to corrosion.



Unlikely Yes Free chlorine 0, E.C. 1280. Corrosion is perforating the apron.



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OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: II-48 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Date of Inspection: 8/12/2015 Inspector: Nolan Knapp

Previous Rain Fall (Hours): > 72

Flow: Yes	
Flow Description:	Trickle
Approximate Flow:	9 gpm
Temperature:	20 °C
pH:	8.5 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l

Physical Indicators Present within Flow: Yes

Colors

Abnormal Vegetation: Poor Pool Quality:

Pipe Benthic Growth:

Comments:

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Indicator Odor:	Description	Severity Index
Color:	Brown	Clearly Visible in Outfall Flow
Turbidity:	See Severity	Opaque
Floatables:		
Cold Weather:		
Physical Indicators Preser	nt not Related to Flow: Yes	
Indicator	Description	Comments
Outfall Damage:	Corrision	
Deposits / Stains:		



Potential (Presence of one or more indicators) Yes

-88.44043375000, 44.24443011111. Severe pipe corrosion, pipe and pan are perforating. Major soil erosion contributing to this outfall. pH and temp only analyzed, as the turbidity will skew the colorimeter results. Green Bay Pipe & TV was televising and cleaning pipes nearby, likely the source of the color and turbidity.



100 North Appleton Street Appleton, WI 54911 (920) 832-6489

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: JJ-43 Outfall Type: Major MS4 Jurisdicton: City of Appleton

Outfall Location:

34x48 CMP discharges to stream west of subdivision. (Formerly JJ-1-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Elliptical
Number of Pipes:	1
Size:	48" x 34"
Submerged in Water:	Partially
Submerged in Sediment:	No



34x48





Previous Rain Fall (Hours): > 72

Flow: None

Physical Indicators Present not Related to Flow: Yes

IndicatorDeOutfall Damage:CoDeposits / Stains:FloAbnormal Vegetation:Poor Pool Quality:Pipe Benthic Growth:Flo

Date of Inspection: 8/16/2016

Description Corrision Flow Line Comments



Overall Outfall Characterization:

Non-Illicit Discharge Concerns: Comments: Potential (Presence of one or more indicators)

No

Inspector: Nolan Knapp

GPS verification is 44 degrees 17'26.6704"N 88 degrees 25'47.6415"W. Stagnant water in outfall and upstream manhole (not shown). Pool too shallow to test.



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36

Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-30 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

36 CMP from Roemer Rd discharges into box culvert under Roemer Rd from north. No GPS in culvert. (Formerly SS-1 -X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	CMP
Shape:	Circular
Number of Pipes:	1
Diameter:	36"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/2/2016 Flow: Yes

Flow Description: Trickle Approximate Flow: 1 gpm Temperature: 24 °C pH: 7.0 pH Units Ammonia: 0.0 mg/l Total Chlorine: 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

IndicatorDescriptionOutfall Damage:CorrisionDeposits / Stains:Flow LineAbnormal Vegetation:Poor Pool Quality:Pipe Benthic Growth:Vertice

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Potential (Presence of one or more indicators) No Free chlorine 0, E.C. 883

Comments





Date of Inspection: 8/28/2015

City of Appleton

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Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Previous Rain Fall (Hours): > 72

Outfall ID: SS-30 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Flow: Yes Flow Description: Trickle Approximate Flow: 1 gpm Temperature: 20 °C pH: 8.4 pH Units Ammonia: 0.0 mg/l **Total Chlorine:** 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l **Physical Indicators Present within Flow: None** Physical Indicators Present not Related to Flow: Yes Indicator Description Comments Outfall Damage: Corrision Deposits / Stains: Flow Line Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth: **Overall Outfall Characterization:** Potential (Presence of one or more indicators) Non-Illicit Discharge Concerns: Yes Comments: None Date of Inspection: 10/6/2014 Inspector: Nolan Knapp Previous Rain Fall (Hours): > 72 Flow: Yes Flow Description: Trickle Approximate Flow: 1 gpm Temperature: 14 °C pH: 7.4 pH Units 0.0 mg/l Ammonia: **Total Chlorine:** 0.00 mg/l Total Copper: 0.0 mg/l **Total Phenol:** 0.0 mg/l Detergents: 0.0 mg/l





Physical Indicators Present within Flow: None

. ..

Physical Indicators Present not Related to Flow: Yes

Indicator	Description	Comments
Outfall Damage:	Corrosion	
Deposits / Stains:	Flow Line	
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		
Overall Outfall Characte	rization:	Potential (Presence of one or more indicators)
Non-Illicit Discharge	Concerns:	Yes
Comments:		Outfall location: -88.36862507440, 44.28719702200. Free chlorine reading: 0 mg/l.



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18

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-32 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X1) $\,$

Outfall Description:

Date of Inspection: 8/2/2016

Flow: None

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Physical Indicators Present not Related to Flow: Yes			
Indicator	Description	Comments	
Outfall Damage:	Spalling, Cracking Or Chipping	Apron is chipped	
Deposits / Stains:			
Abnormal Vegetation:			
Poor Pool Quality:			
Pipe Benthic Growth:			
Overall Outfall Characteri	ization: Unlikely		

Inspector: Nolan Knapp

Yes None

Unlikely

Yes

Inspector: Nolan Knapp

None

None

None

No

Unlikely

Overall Outfall Characterization: Non-Illicit Discharge Concerns:

Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Comments:

Physical Indirectors:

Flow:

Comments:

Overall Outfall Characterization:

Date of Inspection: 10/6/2014

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Non-Illicit Discharge Concerns:

Non-Inicit Discharge Concerns.	
Comments:	

Date of Inspection: 8/28/2	015 Inspector: Nolan Knapp
Flow: None	
Physical Indicators Prese	nt not Related to Flow: Yes
Indicator	Description
Outfall Damage:	Spalling, Cracking Or Chipping
Deposits / Stains:	

Comments

Outfall location: -88.37414195130, 44.28718116300.



Previous Rain Fall (Hours): > 72



Previous Rain Fall (Hours): > 72





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18

Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-33 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X2)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No

Physical Indicators Present not Related to Flow: Yes

Date of Inspection: 8/2/2016

Flow: None





Previous Rain Fall (Hours): > 72

Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	Descrip Spalling	tion Cracking Or Chipping	Comments Note the apron perforation in photo.	
Overall Outfall Characteriz Non-Illicit Discharge Co Comments:		Unlikely Yes None		
Date of Inspection: 8/28/20	015	Inspector: Nolan Knapp	Previous	Rain Fall (Hours): > 72
Flow: None Physical Indicators Preser	nt not Rela	ted to Flow: Yes		
Indicator Outfall Damage: Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:	Descrip		Comments Concrete apron is cracked.	

Overall Outfall Characterization:

Non-Illicit Discharge Concerns: Yes None

Date of Inspection: 10/6/2014 Inspector: Nolan Knapp

Flow: None

Comments:

Physical Indicators Present not Related to Flow: Yes

Indicator	Description
Outfall Damage:	Spalling, Cracking Or Chipping

Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Yes Outfall location: -88.37336153930, 44.28718627910.

Comments

Concrete apron appears to have been patched, but difficult to ascertain if undercutting is still occurring.



Previous Rain Fall (Hours): > 72

Unlikely

Unlikely



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18

Inspector: Nolan Knapp

Inspector: Nolan Knapp

Unlikely

Unlikely

Yes

None

Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: SS-35 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Description:

Outfall Location:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	18"
Submerged in Water:	No
Submerged in Sediment:	No



18 RCP from Northland Av curb inlets discharges to concrete channel from north. (Formerly SS-0-X4)



Previous Rain Fall (Hours): > 72

Flow: None

Date of Inspection: 8/2/2016

Date of Inspection: 8/28/2015

Overall Outfall Characterization:

Date of Inspection: 10/6/2014

Non-Illicit Discharge Concerns:

Flow: None

Indicator

Outfall Damage:

Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Comments:

Flow: None

Indicator

Outfall Damage:

Deposits / Stains: Abnormal Vegetation:

Physical Indicators Present not Related to Flow: Yes

Physical Indicators Present not Related to Flow: Yes

Physical Indicators Present not Related to Flow: Yes

Description

Description

Spalling, Cracking Or Chipping

Spalling, Cracking Or Chipping

Indicator	Description
Outfall Damage:	Spalling, Cracking Or Chipping
Deposits / Stains:	
Abnormal Vegetation:	
Poor Pool Quality:	
Pipe Benthic Growth:	
Overall Outfall Characteriza	tion: Unlikely
Non-Illicit Discharge Con	icerns: Yes
Comments:	None

Comments Apron is chipped and cracked

One side of the concrete apron is chipped.



Previous Rain Fall (Hours): > 72



Previous Rain Fall (Hours): > 72



Poor Pool Quality:

Pipe Benthic Growth:

Overall Outfall Characterization:

Non-Illicit Discharge Concerns: Comments:

Yes Outfall location: -88.37176009330, 44.28719439520.

Comments

Comments



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48

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-335 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

48 RCP from Ballard Road enters box culvert from north. No GPS in culvert. (Formerly V-314-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	48"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/2/2016 Flow: Yes

Inspector: Nolan Knapp

Flow Description:	Moderate
Approximate Flow:	20 gpm
Temperature:	23 °C
pH:	7.0 pH Units
Ammonia:	0.0 mg/l
Total Chlorine:	0.00 mg/l
Total Copper:	0.0 mg/l
Total Phenol:	0.0 mg/l
Detergents:	0.0 mg/l



Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Unlikely Yes Free chl

Free chlorine 0, E.C. 1596. Debris buildup just downtream of outfall (not shown). GPS verification 44 degrees, 17'13.7944"N 88 degrees, 22'28.6575"N. Actual outfall 50 feet west of these coordinates under Ballard St bridge.



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10

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-412 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

10 PVC from Northwood Dr curb inlets discharges to concrete channel from east. (Formerly GG-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	10"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/16/2016

Inspector: Nolan Knapp

Unlikely

Flow: None

Physical Indicators Present not Related to Flow: Yes

Indicator
Outfall Damage:
Deposits / Stains:
Abnormal Vegetation:
Poor Pool Quality:
Pipe Benthic Growth:

Description Spalling, Cracking Or Chipping Comments



Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Yes GPS verification is 44 degrees 17'22.2**4"N 88 degrees 23'25.6995"W.



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10

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-414 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

10 PVC from Northwood Dr curb inlets discharges to concrete channel from west. (Formerly EE-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	10"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Date of Inspection: 8/11/2016 Flow: None

Inspector: Nolan Knapp

Unlikely

Physical Indicators Present not Related to Flow: Yes

Indicator
Outfall Damage:
Deposits / Stains:
Abnormal Vegetation:
Poor Pool Quality:
Pipe Benthic Growth:

Description Spalling, Cracking Or Chipping Flow Line

Comments Cracking not impeding flow.



Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Yes GPS verification is 44 degrees, 17'25.4884"N, 88 degrees 23'18.4335"W.



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10

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-415 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

10 PVC from Northwood Dr curb inlets discharges to concrete channel from north. (Formerlly DD-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	10"
Submerged in Water:	No
Submerged in Sediment:	No





Previous Rain Fall (Hours): > 72

Flow: None

Inspector: Nolan Knapp

Physical Indicators Present not Related to Flow: Yes

Indicator	Description
Outfall Damage:	Spalling, Cracking Or Chipping

Deposits / Stains: Abnormal Vegetation: Poor Pool Quality: Pipe Benthic Growth:

Date of Inspection: 8/11/2016

Overall Outfall Characterization: Non-Illicit Discharge Concerns:

Comments:

Unlikely Yes GPS verification is 44 degrees 17'29.4184"N 88 degrees 23'12.7635"W.

Some minor cracking on pipe end, not impeding

Comments

flow.



Outfall Location:

Conveyance Type:

Number of Pipes:

Submerged in Water:

Submerged in Sediment:

Material: Shape:

Diameter:

Outfall Description:

City of Appleton

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Close Pipe PVC

Circular

1

10"

No

No

10

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-431 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Previous Rain Fall (Hours): > 72

Date of Inspection: 8/16/2016 Flow:

Physical Indirectors: Overall Outfall Characterization: Non-Illicit Discharge Concerns: Comments:

Inspector: Nolan Knapp

None None Unlikely Yes

10 PVC pipe from curb inlet discharges to north side of 66

RCP. No GPS inside pipe. (Formerly FF-X)

GPS verification is 44 degrees 17'22.7164"N 88 degrees 23'21.1575"W. Actual outfall is approx 10 feet into pipe. Graffiti noted in larger pipe.





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10

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: V-432 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

10 PVC from curb inlet discharges to east side of 54 RCP. No GPS in pipe. (Formerly II-X)

Outfall Description:

Conveyance Type:	Close Pipe
Material:	PVC
Shape:	Circular
Number of Pipes:	1
Diameter:	10"
Submerged in Water:	No
Submerged in Sediment:	No



Comments



Previous Rain Fall (Hours): > 72

Flow: None

Comments:

Date of Inspection: 8/16/2016

Physical Indicators Present not Related to Flow: Yes

IndicatorDescriptionOutfall Damage:Deposits / Stains:Flow LineAbnormal Vegetation:Poor Pool Quality:Pipe Benthic Growth:Vertice

Overall Outfall Characterization:

Non-Illicit Discharge Concerns:

Unlikely

Yes

Inspector: Nolan Knapp

GPS verification is 44 degrees 17'26.5084"N 88 degrees23'30.9195"W. This is coordinates of V-397. Actual outfall of V-432 is approximately 5 feet into the 54 inch RCP (V-397). Graffiti noted in larger pipe.





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54

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: Y-336 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Outfall Location:

Outfall Description:

Conveyance Type:	Close Pipe
Material:	RCP
Shape:	Circular
Number of Pipes:	1
Diameter:	54"
Submerged in Water:	No
Submerged in Sediment:	No



54 RCP discharges to riprap channel. Ultimately discharges through NN-1-X. (Formerly Y-266-X)



Previous Rain Fall (Hours): > 72

Comments:

Date of Inspection: 8/9/2016

Inspector: Nolan Knapp

Flow: Yes

Flow Description: Moderate Approximate Flow: 36 gpm 25 °C Temperature: 7.0 pH Units pH: Ammonia: 0.0 mg/l **Total Chlorine:** 0.00 mg/l Total Copper: 0.0 mg/l Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization: Non-Illicit Discharge Concerns:

Potential (Presence of one or more indicators) Yes Free chlorine 0.4, E.C.1116. Jim Becker notified regarding 0.4 mg/l chlorine from Appvion. Jim Becker claims Appvion has permit to discharge with the chlorine residual. Outfall pipe has considerable amount of graffiti on it.

Date of Inspection: 9/2	2/2015 Inspector: Nolan Knapp	Previous Rain Fall (Hours): > 72
Flow: Yes		
Flow Description:	Moderate	
Approximate Flow:	210 gpm	
Temperature:	27 °C	
pH:	6.9 pH Units	and the second sec
Ammonia:	0.0 mg/l	and the second se
Total Chlorine:	1.60 mg/l	
Total Copper:	0.0 mg/l	
Total Phenol:	0.0 mg/l	
Detergents:	0.0 mg/l	

Physical Indicators Present not Related to Flow: None

Overall Outfall Characterization:	Potential (Presence of one or more indicators)
Non-Illicit Discharge Concerns:	No
Comments:	Complete lack of benthic growth suggests constant chlorine residual. Jim Becker was notified of the chlorine hit.



Date of Inspection: 9/26/2014

City of Appleton

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Inspector: Nolan Knapp

OUTFALL FIELD SCREENING WORKSHEET

Outfall ID: Y-336 Outfall Type: Supplemental MS4 Jurisdicton: City of Appleton

Previous Rain Fall (Hours): > 72

Flow: Yes Trickle Flow Description: Approximate Flow: 31 gpm Temperature: 19 °C 7.4 pH Units pH: Ammonia: 0.0 mg/l Total Chlorine: 0.60 mg/l 0.0 mg/l Total Copper: Total Phenol: 0.0 mg/l Detergents: 0.0 mg/l

Physical Indicators Present within Flow: None

Physical Indicators Present not Related to Flow: Yes

•		
Indicator	Description	Comments
Outfall Damage:	Graffiti	
Deposits / Stains:		
Abnormal Vegetation:		
Poor Pool Quality:		
Pipe Benthic Growth:		
Overall Outfall Charact	erization:	Potential (Presence of one or more indicators)
Non-Illicit Discharge	e Concerns:	Yes
Comments:		Outfall location: -88.39110664910, 44.27113130900. Free and total chlorine readings: 0.60 mg/l. Flow appears to be coming from Appvion, formerly Appleton Coated. Contacted Jim Becker regarding the detect.

