

Haverhill

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October 26, 2020

Ms. Elizabeth Kudarauskas U.S. EPA - Region 1 5 Post Office Square, Suite 100 Boston, MA 02109-3912

Subject: City of Haverhill, MA NPDES Permit #MA 0101621

Consent Decree Submittal (Civil Action No. 16-11698-IT)

Compliance Report Number 8 – January 1, 2020 through June 30, 2020

Dear Ms. Kudarauskas:

Enclosed is Compliance Report No. 8 as required by Section IX.67 of the Consent Decree. This report is for the January 1, 2020 through June 30, 2020 reporting period.

If you require additional information, please call me at (978) 374-2382.

Sincerely,

Robert E. Ward

Deputy DPW Director

RUZAL

Enclosure

cc: Chief, Environmental Enforcement Section, U.S. DOJ

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CITY OF HAVERHILL, MASSACHUSETTS NPDES PERMIT No. MA0101621 CONSENT DECREE

(Civil Action No. 16-11698-IT, 11/10/16)

COMPLIANCE REPORT No. 8
JANUARY THROUGH JUNE 2020

OCTOBER 2020

CITY OF HAVERHILL, MASSACHUSETTS

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM

PERMIT No. MA0101621

CONSENT DECREE

(Civil Action No. 16-11698-IT, 11/10/2016)

COMPLIANCE REPORT No. 8

JANUARY THROUGH JUNE 2020

TABLE OF CONTENTS

SECTION	DESCRIPTION	PAGE
1	INTRODUCTION	
	1.1 Background	1-1
	1.2 Unforeseen Challenges	1-1
	1.2.1 Covid-19	1-1
	1.2.2 Vacant Positions	1-2
	1.3 Report Organization	1-2
	1.4 Certification Statement	1-3
2	IDDE Program	
	2.1 Introduction	2-1
	2.2 Current Revised Priority Listing	2-1
	2.3 IDDE Investigation Progress Reporting	2-2
	2.4 Identified Illicit Connections and Current Resolution Status	2-10
3	SSO AND BUILDING PRIVATE PARTY BACKUP EVENTS	3-1
4	CONSTRUCTION SITE INSPECTION AND	
	ENFORCEMENT PROGRAM	4-1
5	GENERAL STATUS	
	5.1 Introduction	5-1
	5.2 Issues of Noncompliance	5-3
	5.3 Looking Ahead - Six Month Forecast	5-3
6	SECONDARY TREATMENT BYPASS	
	6.1 Introduction	6-1
	6.2 Bypass Events	6-1

TABLE OF CONTENTS (CONTINUED)

CMOM-CORRECTIVE ACTION PLAN

7

	 7.1 Introduction 7.2 CMOM Corrective Actions 7.3 Additional CMOM-Related Activities 	7-1 7-1 7-1
APPENDICI	<u>ES</u>	
A	CMMS GENERATED WORK ORDERS -	
В	OUTFALL INSPECTIONS IDDE PROGRAM SUPPORTING DOCUMENTS	
	LIST OF TABLES	
TABLE	DESCRIPTION	PAGE
2-1	PRIORITIZED LIST OF OUTFALLS	
	SUB-AREA INVESTIGATIONS	2-3
2-2	SUMMARY OF IDDE INVESTIGATIONS OF SYSTEMS	
	WITH POTENTIAL ILLICIT CONNECTIONS BY BASIN.	2-4
2-3	OUTFALL MAINTENANCE PRIORITY TABLE	2-7
2-4	SUMMARY OF ILLICIT DISCHARGES IDENTIFIED	
	BY BASIN AND CURRENT STATUS	
	(JANUARY THROUGH JUNE 2020)	2-12
3-1	SANITARY SEWER OVERFLOW EVENTS	
	JANUARY THROUGH JUNE 2020	3-2
5-1	SUBMISSIONS WITHIN CURRENT REPORTING PERIOD	5-2
5-2	FUTURE DELIVERABLES DURING THE PROCEEDING	
- 1	REPORTING PERIOD (JULY THROUGH DECEMBER 2020)	5-2
7-1	CMOM CORRECTIVE ACTION PLAN & STATUS	7-2
7-2	CMOM-RELATED EXPENSES THAT OCCURRED DURING	7 10
	REPORTING PERIOD (JANUARY THROUGH JUNE 2020)	7-10
	LIST OF FIGURES	
FIGURE	DESCRIPTION	PAGE
3-1	SSO AND BUILDING/PRIVATE PARTY BACKUP LOCATIONS JANUARY THROUGH JUNE 2020	3-3

INTRODUCTION

1.1 BACKGROUND

The United States Environmental Protection Agency (EPA), Massachusetts Department of Environmental Protection (MassDEP), and the City of Haverhill entered into a Consent Decree to require the City to take measures necessary to meet the requirements of the Clean Waters Act and the Massachusetts Clean Water Act, and to achieve and maintain compliance with the Small Municipal Separate Stormwater Sewer System (MS4) General Permit and the Publicly Owned Treatment Works (POTW) Permit, and all applicable federal and state regulations. The effective date of the Consent Decree is November 10, 2016.

As part of the Consent Decree, the City is required to submit a Compliance Report to EPA and MassDEP for the previous six-month period, referred to as a "Reporting Period." The bi-annual Reporting Periods run from January through June and July through December, with the Compliance Reports due on April 30th and October 31st for the previous period.

The goal of this Compliance Report is to provide the EPA and MassDEP an updated summary of the work performed by the City to achieve and maintain compliance over the course of the Reporting Period.

1.2 UNFORESEEN CHALLENGES

As previously discussed in Section 2.3 of Compliance Report No. 7 (June through December 2019) dated April 2020, the City is currently facing both external and internal challenges that impacts their ability to perform required tasks as originally scheduled.

1.2.1 COVID-19

During this reporting period, the Coronavirus (COVID-19) pandemic reduced collection systems operation activities. Collection System employees are considered essential, and the City implemented safety policies and procedures, such as one person per vehicle, mandatory mask wearing, and social distancing.

Through early March through May 2020; City Hall and Public Schools closed; and a majority of the City's employees were allowed to work from home. Though given the option, no collection system employee chose to work from home, however daily productivity levels were reduced due to coronovirus safety protocals that were put in place.

Even with safety precautions in place, two collection system employees tested positive for COVID-19 and were quarantined until they tested negative, reducing collection system manpower as the warmer weather began to set in. Fortunately, all other City employees that may have come in contact with them were tested and found to be negative. A month after testing positive, both employees were fully recovered and returned to work.

1.2.2 Vacant Positions

The Collection System Supervisor and Collection System Operator positions remain vacant during this reporting period. The Collection System Supervisor position is currently being filled by the former and retired Collection System Supervisor in an acting capacity. Every effort continues to be made to fill these vacancies.

1.3 REPORT ORGANIZATION

The Compliance Report is divided into several sections including:

- IDDE Program
- SSO and Building/Private Party Backup Events
- Construction Site Inspection and Enforcement Program
- General Status
- Secondary Treatment Bypass
- CMOM Corrective Action Plan (per MassDEP request)

Each section summarizes the City's actions, activities, and events that have occurred over the previous Reporting Period in accordance with the Consent Decree.

1.4 CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Robert E. Ward

Deputy DPW Director

City of Haverhill, Massachusetts

70/27/20

IDDE PROGRAM

2.1 INTRODUCTION

The City identified and inspected 1,200 stormwater outfalls (13 of these outfalls are shared stormwater/combined sewer overflow (CSO) outfalls) as part of the 2014/2015 Stormwater Outfall Inspection Report. Based on the findings, the City established a draft schedule of prioritized inspections.

In 2017, the City prepared the "Illicit Discharge Detection and Elimination (IDDE) Manual." The manual identified the procedures that the City will follow to continue their comprehensive inspections of its stormwater outfalls, upstream system investigations, and enforcement procedures when an illicit connection is identified. Most recently, the IDDE Manual was updated to be in compliance with the City's MS4 permit.

The IDDE Manual can be found on the City's Stormwater website at: www.cityofhaverhill.com/departments/storm water program/index.php

2.2 CURRENT REVISED PRIORITY LISTING

The City continues to conduct IDDE sampling and update priorities based on field investigation testing results. The current IDDE investigation priorities as of June 2020 are shown in Table 2-1. The current priorities categories reflect the following inventory: there are now 9 High Priority outfalls; 5 Medium Priority outfalls; 11 Low Priority outfalls; 25 Other Priority outfalls; and 7 Follow-up Investigation outfalls. Table 2-1 has been updated with the most recent sampling results for each outfall. The priority listing of outfalls with sample results is available online at the City's Stormwater website.

To maintain compliance with the 2016 Consent Decree and the 2016 NPDES Massachusetts MS4 Stormwater Permit priority rankings, the City is requesting an adjustment to the priority rankings to reflect the standard outlined in the 2016 MS4 Stormwater Permit. Those priority outfall rankings are as follows:

- Problem
- High Priority
- Low Priority
- Excluded

If acceptable to EPA and MassDEP, the City will begin using the MS4 priority outfall rankings as part of the next Compliance Report for the period of July through December 2020.

2.3 IDDE INVESTIGATION PROGRESS REPORTING

Table 2-2 shows the City's progress to date on their IDDE investigations during the reporting period (January through June 2020).

Using GIS, the City identified a total of 26.12 miles of storm drain piping and 2,617 drainage manholes and catch basins in the tributary area upstream of the outfalls included in the Priorities List as Low, Medium, and High priorities. The total length investigated is included and updated from previous reporting for a cumulative percentage investigated. Some outfalls are considered fully investigated if there was no upstream flow to initiate further investigation.

During this reporting period one outfall, MR1141, was removed from the High Priority category and moved to the Other Priorities category.

Table 2-1 PRIORITIZED LIST OF OUTFALL SUB-AREA INVESTIGATIONS (BASED ON OUTFALL INSPECTION PROGRAM) 2014-2020 Dry-Weather MS4/Stormwater Outfall Inspection Program Summary of Water Quality Testing of Dry Weather Flow at MS4/CSO Outfalls

											, ,	or Dry wea												
		Outfall Ir	nformation		Fie	Id Inspection Information Dry Weathe	,	Dry-W	eather Flow C	haracteristics	I			Field	Parameter Tes					1		boratory Sampling/Ar	E.Coli	T
GIS Identifier	Diameter	Material	Outfall Location	Owner-ship	Date	Previous Rainfall < 24 <48 hours hour	Flow Description	Odor	Color	Floatables	Turbity	Sample Time	Sample Temp (F)	pH Cond	LICTIVITY	mmonia (mg/l)	Surfactants (mg/l)	Chlorine (mg/l)	Sample Date for Bacteria	Previous Rainfall (inches)	Previous Rainfall (Date)	Previous Rainfall (End Time)	(MPN/ 100 ml)	Entrocuccus (MPN/ 100 ml)
						Hours Hour	3				Hia	h Priority											100 1111)	
UNK0955	36"	RCP	South Main St(Dominator Plaza)	City	9/29/2014	0.36" ON 9/21/14	MODERATE	NONE	CLEAR	NONE	NONE	1058	69.2	7.54 1	673	0	0.5		9/21/2015	0.1	9/13/2015		>48,000	
MR24314	24"	RCP	Groveland Street/Water Street	City	9/2/2015	0.19" ON 8/23/15	NO INFORMATION	RANCID/SO UR	BROWN, YELLOW	GREASE	CLOUDY	800	70.1	7.6 1	009	0	3	0	9/9/2015	0.19	8/23/2015		>24,000	>24,190
PL0891	30"	RCP	Main St @ Marsh Ave	City	6/9/2020	0.01" ON 6/6/20	MODERATE	DETERGENT		NONE	CLEAR	1011	58	7.9 1	200	0.17	2.19	0.02	6/9/2020	0.01	6/6/2020		>2400	
MR1109	12"	RCP	350 Water Street	City	10/26/2015	0.06" ON 10/25/15	TRICKLE	**	NONE	NONE	NONE	930	59.3		3	0	0	0	12/10/2015	0.1	12/3/2015		1413.6	> 2420
UNK1767	36"	CMP	Tudor Ct	City	10/10/2014	0.08" ON 10/8/14	TRICKLE	NONE	CLEAR	DEBRIS	CLEAR	1055	60.6		373	0	0.25		10/14/2014				2,420	
UNK0951	48"	RCP	61 Brook St	City	9/29/2014	0.36" ON 9/21/14	MODERATE	NONE	CLEAR	NONE	CLEAR	900	65.5		334	0	0.25		10/14/2014		0/0/0045		>2419.6	
DPI0946 DPO0696	48" 12"	RCP RCP	High School Pamela Lane	City	11/5/2015 6/5/2015	0.02" ON 11/1/15 1.38" ON 6/2/15	TRICKLE MODERATE	NONE	NONE	NONE NONE	NONE NONE	815 1010	56.4 64.2		349 365	0	0.25	0	12/10/2015 6/12/2015	0.1	2/3/2015 6/6/2015		>2420 >2,419	
MR1138	36"	RCP	Merrimac River (River St)	City	9/23/2014		TRICKLE	NONE	CLEAR	OTHER (DIRT)	CLEAR	920	58.6		613	0	0	U	9/30/2014	0.01	9/29/2014		2420	
			, , , ,								Medi	ium Priority												
LR1260	3'x4'	OTHER, Blocks	140 Hale Street	City	9/28/2015	0.10" ON 9/13/15	NO INFORMATION	NONE	NONE	NONE	NONE	1040	69.9	7.1	927	0	0.5	0	11/4/2015	0.02	11/1/2015		1986.3	
UNK1166	34"	RCP	8 Franzone Dr	City	6/11/2020	0.01 ON 6/11/2020	SUBSTANTIAL	NONE	CLEAR	NONE	CLEAR	831	62	6.5 1	000	0.09	0	0.03	6/11/2020	0.01	6/11/2020		461.1	
UNK1177	48"	RCP	Franzone Dr	City	6/11/2020	0.01" ON 6/11/2020	SUBSTANTIAL	NONE	CLEAR	NONE	CLEAR	925	63			0.1	0.15	0.01	6/11/2020	0.01	6/11/2020		770.1	
JC1028	15"	RCP	Kali Way	City	10/7/2014	0.12" ON 10/4/14	TRICKLE	NONE	CLEAR	NONE	CLEAR	950	67.3		433	0	0	0	10/20/2014	0.02	10/18/2014	-	1046.2	22.0
LR0993	16"	CMP	100 Newark Street	City	11/7/2015	0.02" ON 11/1/15	MODERATE	NONE	NONE	NONE	NONE	840 w Priority	59.6	6.81	765	0	0	0	12/1/2015	0.39	11/28/2015		1046.2	33.6
UNK1835	15"	PVC	Broadway	City	6/10/2015	0.1" ON 6/6/15	NO INFORMATION	NONE	NONE	NONE	NONE	935	69	7.08	240	0	0	0	6/12/2015	0.1	6/6/2015		980.4	
LR1103	15"	RCP	Bennington St	City	9/10/2014	0.5" ON 9/7/14	TRICKLE	NONE	CLEAR	NONE	NONE	830	68.1	7.35	683	0	0		9/16/2014	0.18	9/13/2014		920.8	
BZB0847	15"	RCP	Fermanagh St	City	10/20/2014	0.02" ON 10/19/14	TRICKLE	NONE	CLEAR	NONE	NONE	1306	60		287	0	1	0	11/13/2014	0.06	11/7/2014		770.1	604
MR20718 MR1164	10" 36	RCP RCP	1 Water Street Water Street	City City	8/14/2015 8/25/2015	0.57" ON 8/11/15 0.36" ON 8/21/15	NO INFORMATION	NONE NONE	NONE CLEAR	NONE NONE	NONE NONE	1000	78 72.2	7.99 7.6	2	0	0	0	8/31/2015 08/31/2015	0.19 0.19	8/23/2015 08/23/2015	 	556 461	631 < 10
FBO0638	12"	RCP	Hilldale Ave.	City	6/27/2015	0.04" ON 6/27/15	TRICKLE	NONE	NONE	NONE	NONE	945	64.5		453	0	0	0	7/7/2015	0.02	7/4/2015		435.2	V 10
PL1222	36"	RCP	West Gile St.	City	5/20/2015	0.07" ON 5/19/15	NO INFORMATION	NONE	NONE	NONE	NONE	825	65.4		548	0	0.25	0	6/5/2015	1.38	6/2/15		410.6	
UNK0661 UNK1063	24" 15"	RCP RCP	Parkridge Rd.	City	9/26/2014 5/26/2015	0.36" ON 9/21/14 0.07" ON 5/19/15	TRICKLE TRICKLE	NONE NONE	NONE	NONE NONE	NONE NONE	4045	67.1 66		315 49	0	0	0	11/13/2014 6/5/2015	0.06 1.38	11/7/2014 6/2/2015		365.4 344.8	
MR0982	18"	CLAY	Crystal Ct. 20 Back Lane	City City	10/14/2015	0.07 ON 3/19/13 0.02" ON 10/13/15	NO INFORMATION	NONE	NONE	NONE	NONE	1015 1150	63.1	7.25	3	0	0	0	11/4/2015	0.02	11/1/15		547.5	183.5
MR23912	8"	STEEL	120 Merrimack St	City	8/27/2015	0.19" ON 8/23/15	TRICKLE	NONE	NONE	NONE	NONE	915	55.1	6.71	6	0	0	0	8/31/2015	0.19	8/23/2015		12.1	148
		_		•	n		_	1	,			ed on non-k							•		1			
MR1141	36" 15"	RCP	Merrimac River (River St)	State	6/9/2020	0.01" ON 6/6/20	TRICKLE	NONE	CLEAR	NONE	CLEAR	848	59		200	0	0.01	0.02	6/9/2020	0.01	6/6/2020		166.4	160.7
MR1140 LRO0995	15" 18"	RCP RCP	River St Newark St	City City	9/23/2014 9/10/2014	0.36" ON 9/21/14 0.5" ON 9/7/14	TRICKLE TRICKLE	NONE NONE	BROWN CLEAR	OTHER NONE	CLOUDY CLEAR	915	42.6 71.4		184 120	0	0.75		11/13/2014 10/14/2014	0.06 0.18	11/7/2014 10/11/2014		62.4 52	
MR0834	48"	RCP	Merrimac River (Bradley Ave)	City	9/19/2014	0.02" ON 9/16/14	MODERATE	NONE	CLEAR	NONE	NONE	831	50	7.6	295	0	0		11/13/2014	0.06	11/7/2014		43.2	
UNK0883	12"	CMP		City	9/24/2014	0.36" ON 9/21/14	TRICKLE	NONE	CLEAR	NONE	NONE	925	64.7		224	0	0.25		10/20/2014	0.02	10/18/2014		28.8	
MR0662	18"	RCP		City	9/25/2014	0.36" ON 9/21/14	TRICKLE	NONE	CLEAR	NONE	NONE SLIGHT	1120	65.4		475	0	0.25		10/6/2014	0.12	10/4/14		23.8	
LR0963	15"	HDPE	Alvanos St	City	9/11/2014	0.5" ON 9/8/14	MODERATE	NONE	CLEAR	NONE	CLOUDINESS	1015	68.1		355	0	0.25		9/16/2014	0.18	9/13/2014		22.6	
CB1198 MR0770	NA 36"	RCP RCP	Research Dr	City	11/4/2014	0.25" ON 11/2/14 0.36" ON 9/21/14	MODERATE TRICKLE	NONE NONE	CLEAR CLEAR	NONE NONE	CLEAR CLEAR	1003 930	50.2 60.6		208 713	0	0.25 0.25		11/13/2014 9/30/2014	0.06 0.01	11/7/2014		21.3 19.9	
UNK1836	36"	RCP	Merrimac River (River St) Computer Dr	City City	9/23/2014 11/6/2014	0.25" ON 11/2/14	MODERATE	NONE	CLEAR	NONE	CLEAR	850	53.7		3	0	0.25		11/13/2014	0.06	9/29/2014 11/7/2014		18.3	
FP7115	12"	RCP	Brickett Ln	City	5/18/2015	0.03" ON 5/12/15	NO INFORMATION	NONE	BROWN	OTHER	CLOUDY	920	56	7.4	6	0	0.5	0.25	5/22/2015	0.07	5/19/15		8.4	
DPI0969	15"	RCP	Diana Road	City	6/4/2015	1.38" ON 6/2/15 X	MODERATE	NONE	NONE	NONE	NONE SLIGHT	1035	65.3		610	0	0	0.25	6/5/2015	1.38	6/2/2015		5.2	
DPO0657	45"	RCP	44 Sarah J Circle	City	6/9/2015	0.1" ON 6/6/15	TRICKLE	NONE	NONE	NONE	CLOUDINESS	925	65.4		206	0	0	0	7/7/2015	0.02	7/4/15		4.1	
UNK1011 UNK0627	24" 15"	RCP RCP	Lake Street	City City	6/8/2015 5/21/2015	0.1" ON 6/6/15 0.07" ON 5/19/15	TRICKLE NO INFORMATION	NONE NONE	NONE NONE	NONE NONE	NONE NONE	915 840	59.3 64.5		794 791	0	0.25	0.25	6/12/2015 5/22/2015	0.1 0.07	6/6/2015 5/19/15	1	3.1	
DPI0947	18"	RCP	177 Brook Stroot	ŕ	10/31/2015	0.66" ON 10/29/15	MODERATE	RANCID/	NONE	NONE	NONE		52.3		283	0	0	0.23	12/10/2015	0.1	12/3/15		1	1
			177 Brook Street	City				SOUR				800 1035					-	U						
UNK1189 TS0984	NA 24"	NA RCP	Primrose St (Dpw)	City	9/12/2014 5/11/2015	0.01" ON 9/9/14 0.03" ON 5/12/15	TRICKLE MODERATE	NONE	CLEAR BROWN	NONE	CLEAR SLIGHT	1025 1111	64.7 62.2		76	0	0.25	0.25	9/16/2014 5/22/2015	0.18	9/13/2014 5/19/15		<1 <1	
TS0989	24"	RCP	Newton Rd	City	5/18/2015	0.03" ON 5/12/15	SUBSTANTIAL	NONE	Clear	NONE	CLOUDINESS SLIGHT	1100	63.3		48	0	0	0.25	5/22/2015	0.07	5/19/15		<1	
UNK1020	24"	RCP		Private	9/30/2014	0.36" ON 9/21/14	TRICKLE	NONE	NONE		CLOUDINESS SLIGHT	840	44.9	-	301	0	0		11/13/2014	0.06	11/7/2014		34.1	
UNK1750		RCP	36 Magnovioto				TRICKLE		NONE	NONE	CLOUDINESS NONE				574	0	0	0.25		0.07		-	<1	-
UNK1750 UNK1040	24" 24"	RCP	36 Magnavista Gile St.	City	5/18/2015 5/20/2015	0.03" ON 5/12/15 0.07" ON 5/19/15	TRICKLE	NONE	ORANGE	NONE	SLIGHT	955 930	64.7 63.1		377	0	0.25	0.25	5/22/2015 5/22/2015	0.07	5/19/2015 5/19/2015		<1	
UNK0902	40"	CMP	Shelley Rd	City	9/24/2014	0.36" ON 9/21/14	MODERATE	NONE	CLEAR	OTHER (RUST)	CLOUDINESS CLEAR		62.6	7.02 1	567	0	0.25							
UNK1680	15"	HDPE	Colonial Farm Road	Private	6/27/2015		TRICKLE	NONE	BROWN	NONE OTHER	NONE	40.00	66.9		238	0	0	0	 	1	+	1		1
DPI1007	54"	CMP	Kenilworth Ln	City	10/10/2014	0.08" ON 10/8/14	TRICKLE	NONE	CLEAR	(DIRT/DEBRIS)	CLEAR	1040	51.5 Follow-up T		471	0	0.25		L					
UNK0848	18"	RCP	Woodrow Ave	City	9/26/2019	0.01" ON 9/23/19	NO FLOW			1	<u> </u>	110003	Show-up I						I		1			T
FBO0723	18"	RCP	Hanna Ridge Rd.	City	7/31/2019	1.2" ON 7/23/19	MODERATE	NONE	NONE	NONE	CLEAR	923	76.6	7.77	140	0	<0.05	0	7/31/2019	1.2	7/23/2019	1045	8.5	
UNK0888	NA 22"	NA DCD	West Lowell Street	City	6/12/2015	0.1" ON 6/6/15	MODERATE	NONE	NONE	NONE	CLEAR	000	70.0	7.40	055	0.5	-0.05	0	7/46/2040	0.45	7/40/0040	20.45	770 4	
UNK1188 UNK1762	32" 6"	RCP PVC	Primrose Street	City	7/16/2019 6/11/2020	0.45" ON 7/12/19 0.01 ON 6/11/2020	TRICKLE TRICKLE	NONE NONE	NONE NONE	NONE OTHER(FOAM)	CLEAR SLIGHT	930 929	73.9 63		100	0.5	<0.05 0.08	0.02	7/16/2019 6/11/2020	0.45	7/12/2019 6/11/2020	2045 120	770.1 <1	2
MR38714	6"	PVC		City	3/9/2016	0.01" ON 3/4/16	TRICKLE				CLOUDINESS													_
MR38718 LR39512	18" 48"	RCP	Merrimack River	City	9/26/2019	0.01" ON 9/23/19	TRICKLE	NONE	NONE	NONE	CLEAR	1013	68.1	8.01	509	0	<0.05	0	9/29/2019	0.01	9/23/2019	2240	>2400	
	48"	RCP	Little River	City	7/31/2019	1.2" ON 7/23/19	NO FLOW	i	1	1	I	i .		1 1	1				I	1	1	1	i .	1

NOTE: Data exceeds one of the parameter thresholds that suggest it should be added to the IDDE program

Laborary Sampling Dates in Red are the samples taken with less than 48 hours of dry weather.

TABLE 2-2

SUMMARY OF IDDE INVESTIGATIONS OF SYSTEMS WITH POTENTIAL ILLICIT CONNECTIONS BY BASIN (BASED ON OUTFALL INSPECTION PROGRAM)

2014-2020 Dry-Weather MS4/Stormwater Outfall Inspection Program REVISED (December 2020) IDDE INVESTIGATION PRIORITIES

			NETICED (Doddinisti Zo		Report Period			Compl	leted to Date	
)20 - June 2020				s Reporting Period	
D : ID	0 (0 11 TD	D. H. G	. P								
Basin ID	Outfall ID	Length of Pipe (ft)	Number of Manholes and Catch Basins	Length of Pipe (ft)	Upstream Ba Percent Completed	sin Investigations Number of Manholes and Catch Basins	Percent Completed	Length of Pipe (ft)	Upstream Ba Percent Completed	asin Investigations Number of Manholes and Catch Basins	Percent Completed
Buswell Brook	BZB0847	1,697	24					1,697	100%	24	100%
Buswell Brook TOTAL	DZD0047	1,697	24	0	0%	0	0%	1,697	100%	24	100%
Buswell Brook TOTAL		1,097	24	U	U70	U	U 70	1,097	10070	24	10070
Creek Brook	CB1193	70	0					70	100%		
	CB1198	144	5								
	CB1710	71	0					71	100%		
Creek Brook Outlet TOTAL		285	5	0	0%	0	0%	141	49%	0	0%
Detention Pond Outlet	DPO0657	422	7								
	DPO0696	61	2					61	100%	2	100%
	DPO1079	37	0								
Detention Pond Outlet TOTAL		520	9	0	0%	0	0%	61	12%	2	22%
Detention Pond Inlet	DPI0946	7,421	172					7,421	100%	172	1
	DPI0947	1,360	11								
	DPI0969	1,515	22								
	DPI1007	1,634	0								
	DPI1074	694	14								
	DPI1094	22	0					22	100%		
Detention Pond Inlet TOTAL		12,646	219	0	0%	0	0%	7,443	59%	172	79%
Fishing Brook	FBO0638	852	15					852	100%	15	100%
Fishing Brook TOTAL	120000	852	15	0	0%	0	0%	852	100%	15	100%
Frey's Pond	FP7115	72	3								
Frey's Pond TOTAL	FF/113	72	3	0	0%	0	0%	0	0%	0	0%
Frey 8 Folid 101AL		12	3	U	U70	U	U 70	U	U 70	U	U 70
Johnston's Creek	JC1028	1,397	12					1,397	100%	12	100%
Johnston's Creek TOTAL		1,397	12	0	0%	0	0%	1,397	100%	12	100%
Little River	LR0952	7,268	88								
	LR0963	703	11								
	LR0993	539	4					539	100%	4	100%
	LR0995	822	0								
	LR1103	4,418	4					4,418	100%	4	100%
	LR1260 ¹	26,134	614					6,214	24%	146	24%
Little River TOTAL		39,884	721	0	0%	0	0%	11,171	28%	154	21%

TABLE 2-2 CONTINUED

						Report Period 020 - June 2020				leted to Date s Reporting Period	
Basin ID	Outfall ID	Existing Sys	stem Estimates		Upstream Ba	sin Investigations			Upstream B	asin Investigations	
		Length of Pipe (ft)	Number of Manholes and Catch Basins	Length of Pipe (ft)	Percent Completed	Number of Manholes and Catch Basins	Percent Completed	Length of Pipe (ft)	Percent Completed	Number of Manholes and Catch Basins	Percent Completed
Merrimack River	MR0662	210	5								
	MR0770	2,980	47								
	MR0834	756	8								
	MR0982	128	10					128	100%	10	100%
	MR1109	941	12								
	MR1138	289	18					289	100%	18	100%
	MR1140	90	2								
	MR1141 ²	3,899	104					3,899	100%	104	100%
	MR1164	1,746	116					1,746	100%	116	100%
	MR20718	NA									
	MR23912	0	1								
	MR38718	1713	30								
	MR24314	541	24					541	100%	24	100%
Merrimack River TOTAL		13,293	377	0	0%	0	0%	6,603	50%	272	72%
Pentucket Lake	PL0891	5,463	128					5,463	100%	128	100%
Followup Investigation	PL0891	5,463	128	71	1.3%	3	2%	5,463	1.3%	128	2%
1 0	PL1222 ¹	3,292	102					3,292	100%	102	100%
Pentucket Lake TOTAL		14,218	358	71	0%	3	1%	14,218	100%	358	100%
Tilton Swamp	TS0984	52	1								
Titton Swamp	TS0989	3,893	47								
Tilton Swamp	130707	3,945	48	0	0%	0	0%	0	0%	0	0%
Unknown	UNK0627	254	8								
	UNK0661	410	11					410	100%	11	100%
	UNK0668	854	18								
	UNK0788	869	16					869	100%	16	100%
	UNK0836	842	12								
	UNK0883	570	7					0.1	1000/		
	UNK0898 UNK0902	91 54	2					91	100%		
	UNK0951	1,910	34					1,910	100%	34	100%
	UNK0953	225	0					225	100%	34	10070
	UNK0954	81	0					81	100%		
	UNK0955	6,058	146					6,058	100%	146	100%
	UNK1011	5306	44					0,000	10070	1.0	100,0
	UNK1020	71	2								
	UNK1040	1,414	21								
	UNK1063	49	0								
	UNK1166	1,079	28					1,079	100%	28	100%
	UNK1177	156	3					156	100%	3	100%
	UNK1188	25,926	470					25,926	100%	470	100%
	UNK1189	2,043	17								
	UNK1680	719	8								
	UNK1750	1,239	23								

					Current I	Report Period		Compl	eted to Date		
					January 20	020 - June 2020			Including thi	s Reporting Period	
Basin ID	Outfall ID	Existing Sys	stem Estimates		Upstream Ba	sin Investigations			Upstream Ba	asin Investigations	
		Length of Pipe (ft)	Number of Manholes and Catch Basins	Length of Pipe (ft)	Percent Completed	Number of Manholes and Catch Basins	Percent Completed	Length of Pipe (ft)	Percent Completed	Number of Manholes and Catch Basins	Percent Completed
Unknown	UNK1767	2,077	52					2,077	100%	52	100%
Followup Investigation	UNK1767	2,077	52	1,606	77%	6	12%	1,606	77%	6	12%
, ,	UNK1835	761	10					761	100%	10	100%
	UNK1836	1,179	22								
	UNK1886	20	0					20	100%		
	UNK1887	20	0					20	100%		
	UNK1888	21	0					21	100%		
	UNK1889	21	0					21	100%		
Unknown TOTAL		56,396	1,006	1,606	3%	6	1%	41,331	73%	776	77%
West Meadow Brook	WMB0738	80	0					80	100%		
	WMB0739	80	0					80	100%		
	WMB0740	82	0					82	100%		
	WMB0759	20	0					20	100%		
West Meadow Brook TOTAL		262	0	0	0%	0	0%	262	100%	0	0%
GD LAND WOMEN		117.15	2 -0-	4 (==	40/		00/	0.7.4.7.6	5 00/	1 =0=	5404
GRAND TOTAL		145,467	2,797	1,677	1%	9	0%	85,176	59%	1,785	64%
		27.55mi.		0.32mi.				16.13mi.			

¹ Estimate Base upon Percentage of Manholes Inspected

 $^{^{2}}$ Catchment includes State owned drainage and outfall. City inspected City owned drainage.

TABLE 2-3 OUTFALL MAINTENANCE PRIORITY TABLE January through June 2020

Outfall ID Work Order Number DPI1056 \$T00000521 KL1227 \$T00001275 LR1101 \$T00001276 UNK1015 \$T00001279 UNK1016 \$T00001279 UNK1035 \$T00001280 DPI0942 \$T00000517 DPI0943 \$T000001281 DR150 \$T000001281 MR0778 \$T00000536 UNK0888 \$T00000554 UNK0905 \$T00000556 UNK0905 \$T00000560 UNK1033 \$T00000561 UNK1033 \$T00000562 UNK1136 \$T10001311 UNK1207 \$T10001311 UNK1212 \$T00000562 UNK1221 \$T00001313 UNK3997 \$T00001313 UNK3997 \$T00001313 UNK1730 \$T00000576 BZB0959 \$T00000576 BZB0959 \$T00000576 BZB0959 \$T00000510 DP01545 \$T00000524 PP7112 \$T00000524 P	Could Not Locate X X X X X X X	Buried		Partially	Fully					
KL1227 ST00001275 LR1101 ST00001276 UNK1015 ST00001278 UNK1016 ST00001279 UNK1035 ST00001280 DP10942 ST00000517 DP10943 ST000001281 DP10944 ST00000518 LR1150 ST00001282 MR0778 ST00000536 UNK0888 ST00000554 UNK0905 ST00000554 UNK0907 ST00000560 UNK1033 ST00000560 UNK1033 ST00000562 UNK1031 ST10001311 UNK1207 ST10001312 UNK121 ST00000568 UNK1907 ST10001313 UNK35912 ST00001314 UNK1773 ST00000576 BZB0959 ST00000576 BZB0959 ST00000576 BZB0959 ST00000508 CB1196 ST00000501 DP10655 ST00000504 PP112 ST00000524 FP7112 ST0000054 PP1179	X X X X		Submerged in Subme		Outfall	Inspection Date	Re-Inspection Date			
KL1227 ST00001275 LR1101 ST00001276 UNK1015 ST00001278 UNK1016 ST00001279 UNK1035 ST00001280 DPI0942 ST00000517 DPI0943 ST00001281 DPI0944 ST00000518 LR1150 ST00001282 MR0778 ST00000536 UNK0888 ST00000554 UNK0905 ST00000554 UNK0997 ST00000554 UNK1033 ST00000562 UNK1033 ST00000562 UNK1207 ST10001311 UNK1207 ST10001312 UNK121 ST00000568 UNK1907 ST10001313 UNK1773 ST00000576 BZB0959 ST00000576 BZB0959 ST00000576 BZB0959 ST00000510 DPI0655 ST00000514 DPI1008 ST00000520 DPO1154 ST00000524 FP7112 ST00000529 IP1179 ST0000054 MR1278	X X X		Sediment	Sediment	Water	Water	Vegatation	Damage		
LR1101	X X X								June-18	
UNK1015 ST00001278 UNK1016 ST00001279 UNK1035 ST00001280 DP10942 ST00000517 DP10943 ST00001281 DP10944 ST00000518 LR1150 ST00001282 MR0778 ST00000536 UNK0888 ST00000554 UNK0898 ST00000556 UNK08997 ST00000560 UNK1033 ST00000562 UNK1136 ST10001311 UNK1207 ST10001312 UNK1221 ST00000562 UNK1907 ST10001312 UNK121 ST00000565 UNK1907 ST10001314 UNK1207 ST10001314 UNK1797 ST10001314 UNK121 ST00000575 UNK1774 ST0000576 BZB0959 ST00000510 DP10655 ST00000510 DP10655 ST00000510 DP10655 ST00000514 DP11008 ST00000520 DP01154 ST00000524 FP7112 ST00000524 FP7112 ST00000524 FP7112 ST00000530 KL1230 ST0000152 LR0844 ST0000053 LR118 ST0000152 LR0844 ST0000053 MR1278 ST00000541 MR24329 ST00000544 SB11512 ST00000544 SB11512 ST00000544 SB11512 ST00000553 UNK0064 ST00000553 UNK0064 ST00000553 UNK0065 ST00000566 UNK1076 ST00000561 UNK1076 ST00000561 UNK1076 ST00000561 UNK1076 ST00000573 UNK1174 ST00000561 UNK1076 ST00000573 UNK1772 ST00000573 UNK1772 ST00000574 UNK1748 ST00000573 UNK1772 ST00000574 UNK1772 ST00000575 CB1200 ST00000597	X X								June-18	
UNK1016 ST00001279 UNK1035 ST00001280 DPI0942 ST00000517 DPI0943 ST000001281 DPI0944 ST000001282 MR0778 ST00000536 UNK0888 ST00000554 UNK0905 ST00000556 UNK0997 ST00000560 UNK133 ST00000562 UNK1207 ST10001311 UNK1207 ST10001312 UNK121 ST00000576 UNK1907 ST10001314 UNK1907 ST10001313 UNK173 ST00000576 BZB0959 ST00000576 BZB0959 ST00000576 BZB0959 ST00000510 DP10655 ST00000510 DP1108 ST00000520 DP01154 ST00000524 FP7112 ST00000530 KL1230 ST00000530 KL1230 ST00000530 KL1230 ST00000530 KR118 ST0000054 MR1278 ST0000054 MR1278	X								June-18	
UNK1035 ST00001280 DPI0942 ST00000517 DPI0943 ST000001281 DPI0944 ST000001281 MR0778 ST00000536 UNK0888 ST00000478 UNK0889 ST00000554 UNK0997 ST00000556 UNK1033 ST00000560 UNK1136 ST10001311 UNK1207 ST10001312 UNK1907 ST10001312 UNK1907 ST10001313 UNK1971 ST10001313 UNK1973 ST00000576 BZB0959 ST00000576 BZB0959 ST00000510 DP10655 ST00000510 DP10655 ST00000520 DP01154 ST00000524 FP7112 ST00000529 JP1179 ST00000530 KL1230 ST00001152 LR0444 ST00000541 MR1278 ST00000541 MR24329 ST00000541 MR24329 ST00000544 SB11512 ST00000545 TS0987									June-18 June-18	
DP10942 ST00000517 DP10943 ST00001281 DP10944 ST00000518 LR1150 ST000001282 MR0778 ST00000536 UNK0888 ST00000554 UNK0905 ST00000556 UNK0997 ST00000556 UNK1033 ST00000560 UNK1136 ST10001311 UNK1207 ST10001312 UNK1907 ST10001313 UNK1907 ST10001313 UNK1773 ST00000576 BZB0959 ST00000510 DP10655 ST00000510 DP10655 ST00000524 FP7112 ST00000520 DP01154 ST00000520 DP01154 ST00000520 DP01154 ST00000520 JP1179 ST00000530 KL1230 ST00001283 MR1218 ST00000541 MR24329 ST00000541 MR24329 ST00000541 UNK0064 ST00000554 UNK0782 ST00000554 UNK1076									June-18	
DPI0943 ST00001281 DPI0944 ST00000518 LR1150 ST000001282 MR0778 ST00000536 UNK0888 ST00000554 UNK0889 ST00000556 UNK1033 ST00000560 UNK1136 ST10001311 UNK1207 ST10001312 UNK1221 ST00000568 UNK1907 ST10001313 UNK1573 ST00000576 BZB0959 ST00000576 BZB0959 ST00000576 BZB0959 ST00000510 DP10655 ST00000514 DP11008 ST00000520 DP01154 ST00000520 DP01154 ST00000520 JP1179 ST00000520 JP1179 ST00000520 JP118 ST00000520 JP119 ST00000520 JP1179 ST00000520 JP1179 ST00000520 JP1179 ST00000520 JP1179 ST0000053 KL1230 ST0000053 JR1512 <		X							August-18	
DPI0944 ST00000518 LR1150 ST00001282 MR0778 ST00000536 UNK0888 ST00000478 UNK0989 ST00000556 UNK0997 ST00000556 UNK1033 ST00000560 UNK1136 ST10001311 UNK1207 ST10001312 UNK1221 ST00000568 UNK1907 ST10001313 UNK1907 ST10001313 UNK1773 ST00000576 BZB0959 ST00000576 BZB0959 ST00000510 DP10655 ST00000514 DP11008 ST00000520 DP01154 ST00000520 DP01154 ST00000520 JP1179 ST00000520 JP1179 ST00000530 KL1230 ST00001152 LR0844 ST00000541 MR1278 ST00000541 MR24329 ST00000541 MR24329 ST00000544 SB11512 ST00000551 UNK0782 ST00000551 UNK0782		X	-						August-18	March-19
LR1150 ST00001282 MR0778 ST00000536 UNK0888 ST00000554 UNK0905 ST00000554 UNK0997 ST00000560 UNK1033 ST00000562 UNK1033 ST00000562 UNK1207 ST10001311 UNK1207 ST10001312 UNK1221 ST00000568 UNK1907 ST10001313 UNK35912 ST00000576 BZB0959 ST00000576 BZB0959 ST00000576 BZB0959 ST00000510 DP10655 ST00000520 DP01154 ST00000520 DP01154 ST00000529 JP1179 ST00000530 KL1230 ST00001283 MR1278 ST00000541 MR24329 ST00000541 MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000551 UNK0782 ST00000551 UNK0782 ST00000561 UNK1076 ST00000561 UNK1177		X	-						August-18	March-19
MR0778 ST00000536 UNK0888 ST00000478 UNK0889 ST00000554 UNK09905 ST00000556 UNK0997 ST00000562 UNK1033 ST00000562 UNK1136 ST10001311 UNK1207 ST10001312 UNK1221 ST00000568 UNK1907 ST10001314 UNK1907 ST00000575 UNK1773 ST00000575 UNK1774 ST00000576 BZB0959 ST00000510 DP10655 ST00000520 DP01154 ST00000524 FP7112 ST00000529 JP1179 ST00000530 KL1230 ST0000152 LR0844 ST0000053 KL7131 ST00000544 MR1278 ST00000544 MS1512 ST00000545 TS0987 ST00000551 UNK0782 ST00000551 UNK0782 ST00000551 UNK0783 ST00000553 UNK1076 ST00000554 UNK1076		X	-						June-19	Water 19
UNK0888 ST00000478 UNK0889 ST00000554 UNK0905 ST00000556 UNK0997 ST00000560 UNK1033 ST00000562 UNK1136 ST10001311 UNK1207 ST10001313 UNK1221 ST00000568 UNK1907 ST10001313 UNK35912 ST10001314 UNK1773 ST0000575 UNK1774 ST0000576 BZB0959 ST00000508 CB1196 ST00000510 DP10655 ST00000514 DP11008 ST00000520 DP01154 ST00000520 DP01154 ST00000520 IP1179 ST00000520 RL1230 ST0000152 LR0844 ST00000520 IP1179 ST00000530 KL1230 ST0000152 LR0844 ST00000531 KL1230 ST0000152 UNK0064 ST00000544 SB11512 ST00000544 SB11512 ST00000544 SB11512 ST00000558 UNK0064 ST00000551 UNK0782 ST00000551 UNK0782 ST00000551 UNK0782 ST00000551 UNK0782 ST00000551 UNK0783 ST00000551 UNK0784 ST00000553 UNK0935 ST00000553 UNK0935 ST00000566 UNK1076 ST00000572 UNK1748 ST00000572 UNK1748 ST00000573 UNK1772 ST00000574 UNK1772 ST00000574 UNK1772 ST00000574 UNK1748 ST00000575 UNK1772 ST00000570 UNK25513 ST00000580 CB1199 ST00000595 CB1200 ST00000597		X							August-18	
UNK0889 ST00000554 UNK0905 ST00000556 UNK0997 ST00000560 UNK1033 ST00000562 UNK1136 ST10001311 UNK1207 ST10001312 UNK1221 ST00000568 UNK1907 ST00001313 UNK35912 ST10001314 UNK1773 ST00000575 UNK1774 ST00000576 BZB0959 ST00000508 CB1196 ST00000510 DP10655 ST00000514 DP11008 ST00000520 DP01154 ST00000529 JP1179 ST00000529 IP1179 ST00000520 LR130 ST00000520 LR131 ST00000520 UNK174 ST00000530 UNK172 ST00000541 UNK0064 ST00000551 UNK0064 ST00000551 UNK0782 ST00000558 UNK1017 ST00000561 UNK1076 ST00000561 UNK1076 ST00000573 UNK1748 ST00000573 UNK1748 ST00000573 UNK1772 ST00000574 UNK1772 ST00000574 UNK1772 ST00000575 UNK1772 ST00000570 UNK1772 ST00000570 UNK1773 ST00000570 UNK1774 ST00000570 UNK1774 ST00000571 UNK1774 ST00000573 UNK1772 ST00000573 UNK1772 ST00000574 UNK1713 ST00000570 UNK25513 ST00000584 CB1148 ST00000597 CB1200 ST00000597	_	X							March-19	
UNK0905 ST00000556 UNK0997 ST00000560 UNK1033 ST00000562 UNK1136 ST10001311 UNK1221 ST00000568 UNK1907 ST10001312 UNK1907 ST10001313 UNK1907 ST10001314 UNK1773 ST00000575 UNK1774 ST00000576 BZB0959 ST00000510 DP10655 ST00000520 DP01154 ST00000520 DP01154 ST00000529 JP1179 ST00000529 JP1179 ST00000524 KL1230 ST00001152 LR0844 ST00000530 KL1230 ST00000152 LR0844 ST00000541 MR1278 ST00000544 SB11512 ST00000545 TS0987 ST00000548 UNK0064 ST00000553 UNK1076 ST00000553 UNK1076 ST00000560 UNK1076 ST00000572 UNK1678 ST00000572 UNK1748		X							August-18	
UNK1033 ST00000562 UNK1136 ST10001311 UNK1207 ST10001312 UNK1921 ST00000568 UNK1907 ST10001313 UNK35912 ST10001313 UNK1773 ST00000576 BZB0959 ST00000576 BZB0959 ST00000510 DP10655 ST00000524 FP7112 ST00000529 JP1179 ST00000524 FP7112 ST00000530 KL1230 ST00001152 LR0844 ST00000083 LR1118 ST00000541 MR1278 ST00000541 MR24329 ST00000541 MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000551 UNK0604 ST00000551 UNK0782 ST00000551 UNK1076 ST00000561 UNK1076 ST00000564 UNK1137 ST00000572 UNK1678 ST00000574 UNK1772 ST00000574 UNK1906		X							August-18	
UNK1136 STI0001311 UNK1207 STI0001312 UNK1207 STI0001312 UNK1221 ST00000568 UNK1907 STI0001313 UNK35912 STI0001314 UNK1773 ST00000576 BZB0959 ST00000510 DP10655 ST00000514 DP11008 ST00000520 DP01154 ST00000520 DP01154 ST00000529 JP1179 ST00000530 KL1230 ST00001152 LR0444 ST00000083 LR118 ST000001283 MR1278 ST00000541 MR24329 ST0000054 SB11512 ST0000054 UNK0782 ST00000551 UNK0782 ST00000551 UNK0783 ST00000551 UNK1076 ST00000564 UNK1076 ST00000564 UNK1137 ST00000564 UNK1678 ST00000572 UNK1772 ST00000572 UNK1772 ST00000580 UNK1906		X							August-18	
UNK1207 STI0001312 UNK1221 ST00000568 UNK1907 STI0001313 UNK35912 ST10001314 UNK1773 ST00000575 UNK1774 ST00000576 BZB0959 ST00000510 DP10655 ST00000520 DP11008 ST00000520 DP01154 ST00000520 DP01154 ST00000529 JP1179 ST00000529 JP1179 ST00000152 LR0844 ST00000153 KL1230 ST00001283 MR1278 ST00000541 MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000545 UNK0064 ST00000551 UNK0782 ST00000551 UNK1017 ST00000561 UNK1076 ST00000564 UNK1133 ST00000564 UNK1678 ST00000572 UNK1748 ST00000572 UNK1772 ST00000580 UNK25513 ST00000580 UNK25513 <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>June-18</td> <td></td>		X							June-18	
UNK1221 ST00000568 UNK1907 ST10001313 UNK35912 ST10001314 UNK35912 ST10001314 UNK1773 ST00000575 UNK1774 ST00000576 BZB0959 ST00000508 CB1196 ST00000510 DP10655 ST00000514 DP11008 ST00000524 FP7112 ST00000529 JP1179 ST00000529 JP1179 ST00000530 KL1230 ST00001152 LR0844 ST0000083 LR1118 ST00001283 MR1278 ST00000544 SR1118 ST00000544 SR11512 ST00000544 SR11512 ST00000544 UNK0064 ST00000551 UNK0782 ST00000553 UNK0935 ST00000558 UNK1017 ST00000561 UNK1076 ST00000561 UNK1076 ST00000560 UNK1183 ST00000564 UNK1678 ST00000572 UNK1792 ST00000572 UNK1793 ST00000573 UNK1792 ST00000583 UNK1792 ST00000583 UNK1793 ST00000570 UNK1793 ST00000566 UNK1678 ST00000570 UNK1794 ST00000570 UNK1795 ST00000570 UNK1795 ST00000570 UNK1796 ST00000580 UNK25513 ST00000584 CB1148 ST00000595 CB1200 ST00000597		X							August-18	
UNK1907 STI0001313 UNK35912 STI0001314 UNK35912 STI00001314 UNK1773 ST00000575 UNK1774 ST00000576 BZB0959 ST00000510 DP10655 ST00000514 DP11008 ST00000524 FP7112 ST00000529 JP1179 ST00000529 JP1179 ST00000530 KL1230 ST00001152 LR0844 ST00000531 MR1278 ST00000541 MR278 ST00000541 MR24329 ST00000545 TS0987 ST00000545 UNK0935 ST00000551 UNK0935 ST00000558 UNK1017 ST00000558 UNK1017 ST00000561 UNK1076 ST00000561 UNK1137 ST00000561 UNK1678 ST00000572 UNK172 ST00000572 UNK172 ST00000580 UNK25513 ST00000580 UNK31513 ST00000581 UNK31513		X							March-19	
UNK35912 STI0001314 UNK1773 ST0000575 UNK1774 ST00000576 BZB0959 ST00000508 CB1196 ST00000514 DP10655 ST00000520 DP01154 ST00000520 DP01154 ST00000529 JP1179 ST00000530 KL1230 ST00001152 LR0844 ST0000083 LR1118 ST00001283 MR1278 ST00000544 MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000545 UNK0064 ST00000551 UNK0782 UNK0782 UNK0782 UNK0782 UNK1017 ST00000561 UNK1076 ST00000561 UNK1137 ST00000564 UNK1137 ST00000564 UNK1678 ST00000565 UNK1137 ST00000560 UNK1678 ST00000572 UNK1748 ST00000572 UNK1748 ST00000573 UNK1772 ST00000573 UNK1772 ST00000588 CB1148 ST00000589 CB1199 ST00000595 CB1200 ST00000595 CB1200 ST00000595 CB1200 ST00000595		X							August-18	
UNK1773 ST00000575 UNK1774 ST00000576 BZB0959 ST00000508 CB1196 ST00000510 DP10655 ST00000514 DP11008 ST00000520 PP01154 ST00000529 JP1179 ST00000529 JP1179 ST00000530 KL1230 ST0001152 LR0844 ST0000083 LR1118 ST00001283 MR1278 ST00000541 MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000545 UNK0064 ST00000551 UNK0782 UNK0064 UNK0064 ST00000553 UNK1017 ST00000553 UNK1017 ST00000561 UNK1076 ST00000564 UNK1137 ST00000564 UNK1183 ST00000564 UNK1183 ST00000572 UNK1748 ST00000572 UNK1748 ST00000573 UNK1772 ST00000573 UNK1772 ST00000584 CB1148 ST00000580 CB1199 ST00000595 CB1200 ST00000596 CB1201 ST00000595		X							August-18	
UNK1774 ST00000576 BZB0959 ST00000508 CB1196 ST00000510 DPI0655 ST00000514 DPI1008 ST00000520 DPO1154 ST00000529 JP1179 ST00000529 JP1179 ST00000530 KL1230 ST00001152 LR0844 ST00000152 LR0844 ST0000083 LR1118 ST00001283 MR1278 ST00000541 MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000545 UNK0064 ST00000553 UNK0782 ST00000553 UNK0782 ST00000553 UNK0782 ST00000553 UNK0177 ST00000561 UNK1076 ST00000561 UNK1076 ST00000573 UNK1748 ST00000572 UNK1748 ST00000573 UNK1772 ST00000574 UNK1706 ST00000574 UNK1706 ST00000574 UNK1718 ST00000574 UNK1718 ST00000574 UNK1513 ST00000584 CB1148 ST00000596 CB1201 ST00000596 CB1201 ST00000597		X							August-18	
BZB0959 ST00000508 CB1196 ST00000510 DPI0655 ST00000514 DPI1008 ST00000520 DPO1154 ST00000524 FP7112 ST00000530 KL1230 ST00001152 LR0844 ST00000083 LR1118 ST00001283 MR1278 ST00000541 MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000548 UNK0782 ST00000551 UNK0783 ST00000551 UNK1076 ST00000561 UNK1076 ST00000564 UNK1137 ST00000564 UNK1678 ST00000572 UNK1748 ST00000572 UNK1772 ST00000574 UNK1772 ST00000578 UNK2513 ST0000058 UNK2513 ST0000058 CB1148 ST00000591 CB1199 ST00000596 CB1201 ST00000597		X							March-19	
CB1196 ST00000510 DP10655 ST00000514 DP11008 ST00000520 DP01154 ST00000524 FP7112 ST00000529 JP1179 ST00000530 KL1230 ST00001152 LR0844 ST00000083 LR1118 ST00001283 MR1278 ST00000541 MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000545 UNK0782 ST00000551 UNK0783 ST00000553 UNK1076 ST00000564 UNK1076 ST00000564 UNK1137 ST00000564 UNK1678 ST00000572 UNK1748 ST00000573 UNK1772 ST00000580 UNK25513 ST00000580 UNK25513 ST00000584 CB1148 ST00000591 CB1199 ST00000596 CB1201 ST00000597		X							August-18	
DP10655 ST00000514 DP11008 ST00000520 DP01154 ST00000520 DP01154 ST00000524 FP7112 ST00000529 JP1179 ST00000152 LR130 ST00001152 LR0844 ST00000083 MR1278 ST000001283 MR1278 ST00000541 MR24329 ST00000545 TS0987 ST00000545 UNK0064 ST00000551 UNK0782 ST00000553 UNK1017 ST00000553 UNK1017 ST00000561 UNK1076 ST00000564 UNK1078 ST00000564 UNK1137 ST00000572 UNK1678 ST00000572 UNK1748 ST00000572 UNK1772 ST00000580 UNK25513 ST00000580 UNK25513 ST00000581 CB1148 ST00000591 CB1199 ST00000596 CB1201 ST00000597			X						April-19	
DPI1008 ST00000520 DPO1154 ST00000524 FP7112 ST00000529 JP1179 ST000001530 KL1230 ST00001152 LR0844 ST00000083 LR1118 ST00001283 MR1278 ST00000541 MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000551 UNK0782 ST00000551 UNK0935 ST00000551 UNK1017 ST00000561 UNK1076 ST00000564 UNK1076 ST00000564 UNK1137 ST00000566 UNK1678 ST00000572 UNK1748 ST00000572 UNK1772 ST00000580 UNK25513 ST00000580 UNK25513 ST00000584 CB1148 ST00000591 CB1148 ST00000595 CB1200 ST00000597			X						March-19	
DPO1154 ST00000524 FP7112 ST00000529 JP1179 ST00000530 KL1230 ST00001152 LR0844 ST0000083 LR1118 ST00000541 MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000551 UNK0064 ST00000553 UNK0935 ST00000553 UNK1017 ST00000561 UNK1076 ST00000563 UNK1137 ST00000564 UNK1183 ST00000572 UNK1748 ST00000572 UNK1772 ST00000573 UNK25513 ST00000580 UNK25513 ST00000580 UNK31513 ST00000584 CB1148 ST00000595 CB1200 ST00000596			X						March-19	
FP7112 ST00000529 JP1179 ST00000530 KL1230 ST00001152 LR0844 ST00000083 LR1118 ST00000541 MR1278 ST00000541 MR24329 ST00000548 SB11512 ST00000548 UNK0064 ST00000551 UNK0782 ST00000553 UNK0935 ST00000558 UNK1017 ST00000561 UNK1076 ST00000563 UNK1137 ST00000564 UNK1183 ST00000572 UNK1678 ST00000572 UNK172 ST00000574 UNK1772 ST00000580 UNK25513 ST00000580 UNK3513 ST00000584 CB1148 ST00000595 CB1200 ST00000596 CB1201 ST00000597	4		X						April-19	
JP1179 ST00000530 KL1230 ST00001152 LR0844 ST00000083 LR1118 ST00000283 MR1278 ST00000541 MR24329 ST00000545 TS0987 ST00000545 TS0987 ST00000551 UNK0064 ST00000553 UNK0935 ST00000558 UNK1017 ST00000561 UNK1076 ST00000563 UNK1137 ST00000564 UNK1678 ST00000572 UNK1678 ST00000572 UNK1792 ST00000573 UNK1772 ST00000584 UNK25513 ST00000584 UNK3513 ST00000584 CB1148 ST00000595 CB1199 ST00000596 CB1200 ST00000597			X X						March-19	
KL1230 ST00001152 LR0844 ST0000083 LR1118 ST00001283 MR1278 ST00000541 MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000548 UNK0064 ST00000551 UNK0782 ST00000553 UNK1017 ST00000561 UNK1076 ST00000563 UNK1137 ST00000564 UNK1678 ST00000572 UNK1678 ST00000572 UNK172 ST00000573 UNK25513 ST00000580 UNK25513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000597	+		X						March-19	
LR0844 ST00000083 LR1118 ST00001283 MR1278 ST00000541 MR24329 ST00000545 SB11512 ST00000545 TS0987 ST00000551 UNK0064 ST00000553 UNK0935 ST00000558 UNK1017 ST00000561 UNK1076 ST00000563 UNK1137 ST00000564 UNK1678 ST00000572 UNK1678 ST00000573 UNK1748 ST00000574 UNK1772 ST00000580 UNK25513 ST00000580 UNK25513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000597	+		X						April-19 March-19	
LR1118 ST00001283 MR1278 ST00000541 MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000545 UNK0064 ST00000551 UNK0782 ST00000553 UNK1076 ST00000561 UNK1076 ST00000563 UNK1137 ST00000564 UNK1678 ST00000564 UNK1678 ST00000572 UNK1748 ST00000573 UNK1772 ST00000574 UNK25513 ST00000580 UNK25513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000596 CB1201 ST00000597	+		X						March-19	
MR1278 ST00000541 MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000545 UNK0064 ST00000551 UNK0782 ST00000553 UNK0935 ST00000553 UNK1017 ST00000561 UNK1076 ST00000563 UNK1137 ST00000564 UNK1678 ST00000572 UNK1678 ST00000572 UNK1748 ST00000573 UNK1906 ST00000580 UNK25513 ST00000580 UNK25513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000597	+		X						March-19	
MR24329 ST00000544 SB11512 ST00000545 TS0987 ST00000548 UNK0064 ST00000551 UNK0782 ST00000553 UNK1017 ST00000558 UNK1017 ST00000561 UNK1076 ST00000564 UNK1137 ST00000564 UNK1678 ST00000572 UNK1678 ST00000572 UNK1748 ST00000573 UNK1772 ST00000580 UNK25513 ST00000580 UNK25513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000597	+		X						April-19	
SB11512 ST00000545 TS0987 ST00000548 UNK0064 ST00000551 UNK0782 ST00000553 UNK0935 ST00000561 UNK1017 ST00000564 UNK1183 ST00000564 UNK1183 ST00000566 UNK1678 ST00000572 UNK1748 ST00000573 UNK1772 ST00000580 UNK25513 ST00000580 UNK31513 ST00000584 CB1148 ST00000591 CB1199 ST00000596 CB1200 ST00000597	+		X						April-19	
TS0987 ST00000548 UNK0064 ST00000551 UNK0782 ST00000553 UNK0935 ST00000558 UNK1017 ST00000561 UNK1076 ST00000563 UNK1137 ST00000564 UNK1183 ST00000566 UNK1678 ST00000572 UNK1748 ST00000572 UNK1748 ST00000573 UNK1772 ST00000574 UNK1906 ST00000580 UNK25513 ST00000583 UNK31513 ST00000584 CB1148 ST00000591 CB1199 ST00000596 CB1201 ST00000597	+		X						August-18	
UNK0782 ST00000553 UNK0935 ST00000558 UNK1017 ST00000561 UNK1076 ST00000563 UNK1137 ST00000564 UNK1183 ST00000572 UNK1748 ST00000572 UNK1772 ST00000574 UNK1796 ST00000574 UNK1906 ST00000580 UNK25513 ST00000583 UNK31513 ST00000584 CB1148 ST0000595 CB1200 ST00000596 CB1201 ST00000597	1		X						March-19	
UNK0935 ST00000558 UNK1017 ST00000561 UNK1076 ST00000563 UNK1137 ST00000564 UNK1183 ST00000572 UNK1748 ST00000572 UNK1772 ST00000574 UNK1906 ST00000583 UNK25513 ST00000584 CB1148 ST00000591 CB1199 ST00000596 CB1201 ST00000596			X						April-19	
UNK1017 ST00000561 UNK1076 ST00000563 UNK1137 ST00000564 UNK1183 ST00000576 UNK1678 ST00000572 UNK1748 ST00000573 UNK1772 ST00000574 UNK1906 ST00000583 UNK25513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000596 CB1201 ST00000597			X						March-19	
UNK1076 ST00000563 UNK1137 ST00000564 UNK1183 ST00000566 UNK1678 ST00000572 UNK1748 ST00000573 UNK1772 ST00000574 UNK1906 ST00000580 UNK25513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000596 CB1201 ST00000597			X						March-19	
UNK1137 ST00000564 UNK1183 ST00000566 UNK1678 ST00000572 UNK1748 ST00000573 UNK1772 ST00000580 UNK25513 ST00000580 UNK35513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000596 CB1201 ST00000597			X						March-19	
UNK1183 ST00000566 UNK1678 ST00000572 UNK1748 ST00000573 UNK1772 ST00000574 UNK1906 ST00000580 UNK25513 ST00000583 UNK31513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000596 CB1201 ST00000597			X						March-19	
UNK1678 ST00000572 UNK1748 ST00000573 UNK1772 ST0000574 UNK1906 ST00000580 UNK25513 ST00000583 UNK31513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000597			X						March-19	
UNK1748 ST00000573 UNK1772 ST00000574 UNK1906 ST00000580 UNK25513 ST00000583 UNK31513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000597			X						March-19	
UNK1772 ST00000574 UNK1906 ST00000580 UNK25513 ST00000583 UNK31513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000597			X						March-19	
UNK1906 ST00000580 UNK25513 ST00000583 UNK31513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000596 CB1201 ST00000597			X						March-19	
UNK25513 ST00000583 UNK31513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000596 CB1201 ST00000597			X						March-19	
UNK31513 ST00000584 CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000596 CB1201 ST00000597	+	1	X						March-19	
CB1148 ST00000591 CB1199 ST00000595 CB1200 ST00000596 CB1201 ST00000597	+	1	X						March-19	
CB1199 ST00000595 CB1200 ST00000596 CB1201 ST00000597			X						March-19	
CB1200 ST00000596 CB1201 ST00000597	+	1		X					August-19	
CB1201 ST00000597	+	1		X					August-19	
	+	1		X					August-19	
	+	1		X X					August-19	
CL0681 ST00000600 CL0683 ST00000601	+	+		X					April-19 April-19	
CL0690 ST00000602	+	1		X					April-19	
CL0701 ST00000603	+	+		X					April-19	
CLO0688 ST00000605		+		X					April-19	
DPI0634 ST00000606		+		X					April-19	
DPI0841 ST00000608	 	1		X					April-19	
DPI0965 ST00000609	 _	1		X					April-19	
DPI1001 ST00000612		+		X					April-19	
DPI1004 ST00000613		1		X					July-19	
DPI1081 ST00000615			İ	X						

Table 2-3 Continued

		High P	riority	Medium	Low Priority						
Outfall ID	Work Order Number	G IIN (Priority Fully	Partially	Fully	Partially		0 (6 1)	Inspection Date	Re-Inspection Date
	Number	Could Not Locate	Buried	Submerged in		Submerged in	Submerged in	Abnormal Vegatation	Outfall Damage		Date
DPI1090	ST00000617			Sediment	Sediment X	Water	Water	Ü	Ü	April-19	
FBO0721	ST00000628				X					April-19	
FP7114	ST00000629				X					April-19	
FP7115	ST00000630				X					April-19	
KL30718	ST00000634				X					April-19	
LR0931	ST00000635				X					April-19	
LR1099 LR1102	ST00000636 ST00000637				X X					April-19	
LR1102 LR1251	ST00000637 ST00000641				X					April-19 April-19	
MR23513	ST00000650				X					April-17	
MR23514	ST00000651				X						
MR23515	ST00000652				X						
MR23516	ST00000653				X						
MR23517	ST00000654				X						
MR23518 MR23519	ST00000655 ST00000656				X X						
MR23520	ST00000657				X						
MR23522	ST00000659				X						
MR23523	ST00000660				X						
MR23524	ST00000661				X						
MR23525	ST00000662				X						
MR24316	ST00000663				X					April-19	
MR24318 MR24718	ST00000664 ST00000665				X X					April-19	
MR5112	ST00000666				X					April-19 April-19	
PL1181	ST00000667				X					April-19	
SB1117	ST00000668				X					April-19	
UNK0626	ST00000674				X					April-19	
UNK0663	ST00000677				X					April-19	
UNK0669	ST00000682				X						
UNK0756	ST00000691 ST00000700				X X					April-19	
UNK0882 UNK0885	ST00000700 ST00000701				X					April-19 April-19	
UNK0950	ST00000701				X					April-19	
UNK0962	ST00000709				X					r	
UNK1000	ST00000710				X					April-19	
UNK1005	ST00000711				X					April-19	
UNK1006	ST00000712				X					April-19	
UNK1111	ST00000717 ST00000718				X X					April-19	
UNK1123 UNK1158	ST00000718 ST00000721				X					April-19 April-19	
UNK1160	ST00000721				X					April-19	
UNK1170	ST00000724				X					April-19	
UNK1174	ST00000726				X					April-19	
UNK1205	ST00000732				X					April-19	
UNK1213	ST00000734				X					April-19	
UNK1263 UNK1265	ST00000736 ST00000737				X X					April 10	
UNK1265 UNK13512	ST00000737 ST00000738				X					April-19 April-19	
UNK16715	ST00000738				X						
UNK1684	ST00000742				X					April-19	
UNK1685	ST00000743				X					July-19	
UNK1686	ST00000744				X					July-19	
UNK1738	ST00000751				X					Y 1 7**	
UNK1801 UNK1802	ST00000758 ST00000759				X X					July-19 July-19	
UNK1802 UNK1806	ST00000759 ST00000760				X					July-19	
UNK1864	ST00000767				X						
UNK1865	ST00000768				X						
UNK1867	ST00000770				X						
UNK1868	ST00000771				X					April-19	
UNK1880	ST00000772				X					April-19	
UNK1891	ST00000774				X					April-19	
UNK1896 UNK1899	ST00000774 ST00000775				X X					April-19 July-19	
UNK1899 UNK1900	ST00000775 ST00000776				X					July-19 July-19	
UNK24721	ST00000770				X					August-19	
UNK32717	ST00000791				X					May-19	
UNK34712	ST00000793				X						

		High P	riority	Medium	Low Priority						
Outfall ID	Work Order			Priority Fully	Partially	Fully	Partially			Inspection Date	Re-Inspection
	Number	Could Not Locate	Buried		Submerged in	Submerged in	Submerged in	Abnormal Vegatation	Outfall Damage		Date
UNK34713	ST00000794	Locate		Sediment	Sediment X	Water	Water	regutation	Duninge	May-19	
UNK26725	ST00000774 ST00001286				X					May-19	
UNK26726	ST00000784				X						
UNK29512	ST00000787				X					May-19	
CB0976	ST00001287							X		May-19	
CB0977	ST00001288							X			
CB1147	ST00001289 ST00001291							X X		August-19	
DPO0657 DPO1007	ST00001291 ST00001292							X		May-19 August-19	
FB0715	ST00001292							X		riugust 19	
UNK0906	ST00001294							X			
UNK1901	ST00001295							X		May-19	
UNK1902	ST00001296							X		May-19	
UNK5113	ST00001297							X			
CB1198	ST00001298					X				May-19	
DPI0945 DPI1133	ST00000519 ST00000522					X X				May-19 May-19	
MR20719	ST00000522 ST00000542					X				iviay-19	
TS0989	ST00000549					X				April-19	
KL26714	ST00000533					X					
DPI0970	ST00000610						X				
DPI1007	ST00000614						X				
DPI1084	ST00000616						X				
DPI1125	ST00000618						X			37. 10	
DPI1131 DPI1162	ST00000619 ST00000621						X X			May-19 May-19	
DPI1162 DPI1197	ST000001299						X			May-19	
FBO0719	ST000001233						X			April-19	
KL1178	ST00000633						X			April-19	
LR1260	ST00000642						X				
TS0984	ST00000670						X			April-19	
TS33514	ST00000673						X			April-19	
UNK0665	ST00000678 ST00000679						X X			May-19	
UNK0666 UNK0728	ST00000679 ST00000688						X			May-19 May-19	
UNK0729	ST00000689						X			Way-17	
UNK0730	ST00000690						X			May-19	
UNK0902	ST00000703						X			July-19	
UNK0955	ST00000708						X				
UNK1168	ST00000723						X				
UNK1176	ST00000728						X			July-19	
UNK1177	ST00000729 ST00001301						X X			June-19	
UNK1188 UNK1206	ST00001301 ST00000733						X			April-19 May-19	
UNK1220	ST00000735						X			y 1)	
UNK1695	ST00000745						X			April-19	
UNK1696	ST00000746						X			April-19	
UNK1749	ST00000752						X			April-19	
UNK1767	ST00000755						X			June-20	
UNK1823	ST00000761 ST00000762			1			X			1	
UNK1829 UNK1835	ST00000762 ST00000763						X X			May-19	
UNK1910	ST00000703						X			May-19	
UNK6316	ST00001303						X			May-19	
UNK8312	ST00000797						X				
UNK1775	ST00000756						X			August-19	
LR0979	ST00001304								X	April-19	
MR0607	ST00001305								X	May-19	
TS0983	ST00001307								X	April-19	
UNK1173 MR0927	ST00001308 ST00001309			-					X		
UNK1189	ST00001309 ST00001310	<u> </u>							<u> </u>	1	
	vnership Outfal	lls									
		•	<u> </u>	1	<u> </u>	I	l		L	1	

2.4 IDENTIFIED ILLICIT CONNECTIONS AND CURRENT RESOLUTION STATUS

The ongoing and cumulative status of the City's efforts to remove any identified illicit connections or discharges is summarized in Table 2-4.

The status of the twelve most recently identified illicit connections is as follows:

• Merrimack River Basin

Outfall MR1141: Results from sampling conducted on 6/9/2020 were below MS4 permit requirements. This outfall was moved to the Other Priorities ranking for follow-up testing. See map of progress in Appendix B.

• Pentucket Lake Basin

o Outfall PL0891: Refer to previous Compliance Reports for more comprehensive detail in the ongoing resolution for this illicit connection. Additional sampling conducted on 6/9/2020 tested high for bacteria and surfactants. The outfall is located directly across the street from the Marsh Avenue Wash & Clean Center laundromat. Dye testing was performed at the laundromat on 6/17/2020. Dye was introduced in the toilet and was contained within the sewer line. Additional dye was introduced during a wash cycle with additional water added to increase flow. The washing cycle with additional flow resulted in dye infiltration from SMH 2190 to a catch basin, and ultimately to Outfall PL0891. CCTV investigation was done on 6/18/20 for the main sewer line between SMH2190 and SMH7800. CCTV found no breaks in the sewer main that would result in infiltration to CB3318. The service line from Marsh Avenue Wash & Clean Center was then CCTV'd and a break in the lateral service line was found and that there is a flow channel through the soil to CB3318, and ultimately to Outfall PL0891. Next steps are to contact business owner for repair of lateral service line and to retest outfall for surfactants. CB3318, directly upstream from outfall PL0891 has four inlet connections the three o'clock connection was sampled on 6.18.20. The four o'clock connection will be sand bagged to divert flow for sampling without cross contamination. See map of progress in Appendix B.

• Unknown or Unnamed Basins

- Outfall UNK 1166: Sampling conducted on 6/11/2020, upstream connections UNK1177 and UNK1762 were also sampled. UNK1762 will need CCTV investigation to trace flow origination. In field UNK1162 was identified but per system records outfall is asset UNK1762. Samples from 6/11/12 were mislabeled as UNK1162 but were taken from outfall UNK1762. See maps of progress for UNK1166 to 1177 in Appendix B.
- Outfall UNK1767: Sampling investigation conducted on 6/23/20, as well as sampling of outfall and upstream connections DMH-702, 703, and 704 were also sampled as there was minimal flow. Additional testing will be needed further upstream as possible groundwater-only infiltration on DMH-4897 and DMH-4898. Infiltration sampled on DMH 702-3 inlet pipe, no flow at catch basin upstream on Kenilworth, infiltration source between CB1547 and DM702 will need CCTV to investigate further. See map of progress in Appendix B.

TABLE 2-4 SUMMARY OF ILLICIT DISCHARGES IDENTIFIED BY BASIN AND CURRENT STATUS (January through June 2020)

Description			Illicit Dischar	ge/Connection Verified			Ongoing Illici	t Discharge Ren	noval Activities		Final Illicit Connect	ion Removal Action	18		
CD Requirement			67.a.iii.	ı	67.a.iii.2		7a.iii.7	(67.a.iii.8	67.a.iii.9	67.a.iii.3	67.a.iii.4	67.a.iii.5	67.a.iii.6	
Basin ID	Outfall ID	Date Verified	Address Location	Type of Discharge	Estimated Flow (gpd)	Removed?	Reasons Why Not	Schedule for Removal	Reason why expedited	Legal Actions against Private Property Owners	Actions Taken (with Dates)	Date Connection Eliminated	Est. Cost of Removal	Estimated Volume Removed (gallons)	Assessment: Is the City in compliance with the schedule?
Little River	LR1260	10/26/2017	29 Union Street	Single family broken sewer	400 gpd	not removed	gave extension	Was removed on 2/24/18						60,000	
	MR1164	11/19/2016	Market Basket Parking Lot	groundwater into drain	Seasonal Flow/ Not able to estimate	N/A	N/A	N/A	N/A	N/A	This dry weather flow appears to be from a groundwater discharge into the drainage system across a parking lot. Additional testing is required to confirm bacteria source is groundwater.	N/A	N/A	N/A	Yes, the City is in compliance with resolving this "illicit discharge".
	MR1141	12/20/2018	River St	Sewer pipe joint offset leaking in DMH	Not able to estimate	Yes		Was repaired 5/16/2019			Sewer pipe joint and DMH were repaired on 5/16/2019	5/16/2019	\$500	Not able to estimate	Yes, the City is in compliance
Merrimack River	MR1109		350 Water St	IDDE conducted and needs further investigation to determine the source.											
	MR1138	10/20/2017	River St	Upstream contamination from culvert inlet.											
	MR24314	7/27/2016	15 Groveland St., 19 Groveland St, 312 Water St	3 Single family	N/A		N/A	N/A	N/A		New gravity sewer installed on Nov 11, 2016 and 3 homes removed from drain system	11/4/2016	\$ 12,788	26,377	Yes, the City is in compliance
Pentucket Lake	PL0891	10/5/2016	Marsh Avenue	leaking sewer/ exfiltration	Not able to estimate	x	Sewer replacement costs/lengths are costs/lengths are discretionary funds; new fund required in next fiscal year to complete project	Fiscal Year 2019	This connection is being removed as quickly as possible and dependent on the availability of funds within the fiscal year.	N/A	10/5/18-10/10/18: SMH-2190 point repair and manhole rehibilitation complete. 10/11/18- 10/16/18: Installation of CIPP main line liner on Main St 10/17/18-10/23/18: Installation of CIPP main line line for marsh Ave. 10/24/18: Began installing CIPP of sewer laterals. Groundwater to high causing flooding in homes. Project on hold until mid-end March. Project is complete. Post lining CCTV was reviewed and determined that more CCTV needs to be conducted and 1 defect in lining needs to be repaired.6/9/2202: illicit connection located at lateral from laundromat, owner notified to repair	-	\$446,000	-	Marsh Ave sewer repair project was bidded and awarded to National Water Main Cleaning Co. and contract had to be extended to 6/30/19 due to high groundwater. Project was completed by the end of June 2019 but after review of CCTV, it was determined that more CCTV needs to be conducted and 1 defect in lining needs to be repaired.
	UNK0951	11/1/2017	Brook Street	Leaking sewer running through drain	Not able to estimate	not removed	Not able to fix due to weather	As soon as weather permits	-	-	Section of sewer was dug up and replaced	4/17/2018	\$ 4,277	-	Yes, the City is in compliance
	UNK0788	7/27/2016	West Lowell Ave	Possible contamination from leaching septic system	Not able to estimate	N/A	N/A	N/A	N/A	N/A	City drain was disconnected from culvert and residence was connected to City sewer.	Jun-18	\$ 16,700	-	Yes, the City is in compliance
	UNK1767	6/23/2020	Tudor Ct	IDDE conducted. CCTV needs to be completed. High ammonia from private pipe. Dye tested home and their wastes go to sewer.											

Description			Illicit Dischar	ge/Connection Verified			Ongoing Illici	it Discharge Ren	noval Activities		Final Illicit Connect	ion Removal Action	18		
CD Requirement			67.a.iii.	ı	67.a.iii.2	6	7a.iii.7	,	57.a.iii.8	67.a.iii.9	67.a.iii.3	67.a.iii.4	67.a.iii.5	67.a.iii.6	
Basin ID	Outfall ID	Date Verified	Address Location	Type of Discharge	Estimated Flow (gpd)	Removed?	Reasons Why Not	Schedule for Removal	Reason why expedited	Legal Actions against Private Property Owners	Actions Taken (with Dates)	Date Connection Eliminated	Est. Cost of Removal	Estimated Volume Removed (gallons)	Assessment: Is the City in compliance with the schedule?
Unknown	UNK0955	10/14/2016	South Main St	Contaminated private line discharges to City line.											
	UNK1762	6/11/2020	Franzone Dr	Upstream contamination needs additional IDDE											
	UNK1166	6/11/2020	Franzone Dr	Upstream contamination needs additional IDDE	10gpm est										
	UNK1188	12/25/2012	34 Columbia Pk., 66 Columbia Pk., 74 Columbia Pk., 80 Columbia Pk., 90-92 Columbia Pk.	5 Single family		N/A	N/A	N/A	N/A	N/A	5-house sewer services through a drain pipe that were dripping. Install a PVC sleeve through drain	6/8/2016	\$ 13,000	26,481	City is in compliance. 60 day deadline was not applicable until November 2016.
Detention Pond Outlet	DPO0696	6/12/2015	Pamela Lane	Private drain and outfall DPI0697 that discharge to detention pond and not contaminated. Contaminated detention pond.											
¹ Type of Discharge	single-family res	sidential, multifamily	residential, commercial,	, industrial, exfiltration from a sanita	ary sewer						Current Report Period Total =		s -	-	
							Gran				Grand Total = \$ 493,265 112,858				

3.1 SSO AND BUILDING/PRIVATE PARTY BACKUP EVENTS

A chronological list of the sanitary sewer overflows (SSO) and building/private party backup events that occurred during this Reporting Period (January through June 2020), are listed in Table 3-1 and shown in Figure 3-1.

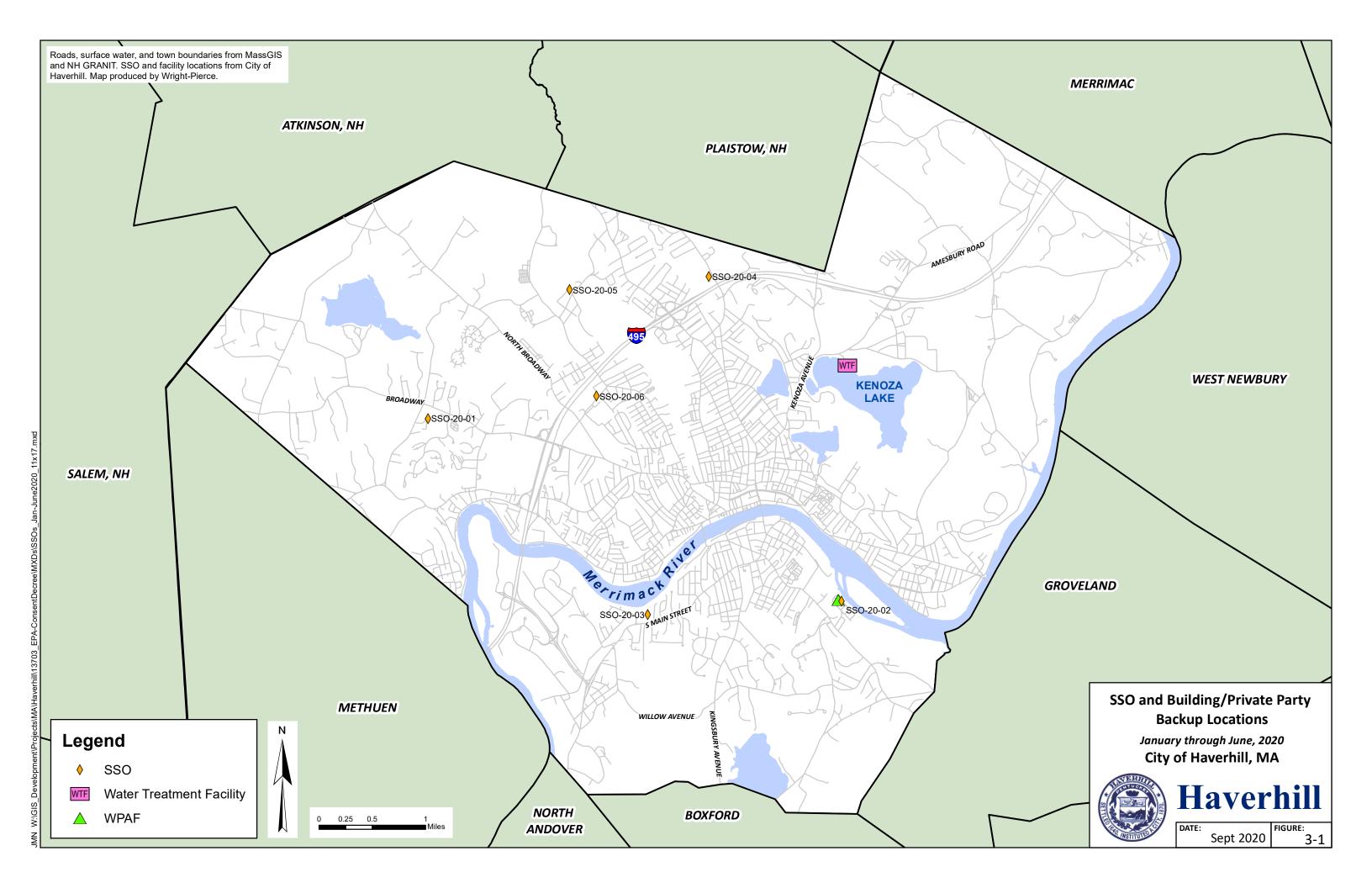
Over the Reporting Period, there were a total of six reportable SSO events associated with the City's sewer collection system and are listed in Table 3-1. One of the six reported SSO's associated with the City have occurred previously and were addressed as follows:

- SSO-20-01 Danielle Drive Lift Station; repaired bubbler line; installed backup floats
- SSO-20-02 40 South Porter Street process tank overflow; flushed area
- SSO-20-03 687 South Main Street; flushed sewer main
- SSO-20-04 322 North Avenue; flushed sewer main
- SSO-20-05 Hazel & Griffin Street: flushed sewer main
- SSO-20-06 200 Monument Street; flushed sewer main

It is important to note that the SSO's associated with the City collection system operations continue to not be a result of pipe capacity deficiencies and the City continues to make significant progress in reducing the number of SSOs that occur in the system attributed to City operations. For this six-month reporting period, the City had six SSOs that were directly attributable to unanticipated collection system conditions. The EPA reported annual average SSOs in a typical nationwide system is about four SSOs per 100 miles. Accordingly, Haverhill continues to have less SSOs than the national average.

TABLE 3-1 SANITARY SEWER OVERFLOW EVENTS JANUARY THROUGH JUNE 2020

	1					
SSO Ownership	CITY	CITY	CITY	CITY	CITY	CITY
City or Private						
MaintStar Work Order	WW00001806	WW00001812	WW00001825	WW00001836	WW00001846	WW00001848
SSO ID	SSO-20-01	SSO-20-02	SSO-20-03	SSO-20-04	SSO-20-05	SSO 20-06
	DANIELLE DRIVE LIFT STATION	40 SOUTH PORTER STREET	687 SOUTH MAIN STREET	322 NORTH AVENUE	HAZEL @ GRIFFIN STREET	200 MONUMENT STREET
Start Date/Time	1/23/2020 6:00	2/3/2020 14:45	3/1/2020 10:40	3/22/2020 17:00	4/8/2020 12:59	4/10/2020 19:45
End Date/Time	1/23/2020 6:30	2/3/2020 15:00	3/1/2020 11:40	3/22/2020 18:15	4/8/2020 13:25	4/10/2020 20:45
Date Reported EPA/DEP	1/23/2020 15:00	2/4/2020 8:00	3/2/2020 8:00	3/23/2020 8:00	4/9/2020 o8:00	4/11/2020 8:30
Who notified	ISIAH LEWIS	ISIAH LEWIS	ISIAH LEWIS	PAUL JESSEL	PAUL JESSEL	PAUL JESSEL
Reason for occurrence	BUBBLER LINE BROKE	TWAS TANK OVERFLOWED	SEWER MAIN BLOCKED	SEWER MAIN BLOCKED	SEWER MAIN BLOCKED	SEWER MAIN BLOCKED
Date of last SSO occurrence	12/6/2019	FIRST OCCURANCE FOR TWAS TANKS	FIRST OCCURANCE	5/15/2002	8/11/2003	FIRST OCCURANCE
SSO est. vol.	500	500	500	1,000	200	2,000
Receiving Waters if sewerage entered	DETENTION POND	DRAINAGE SWALE	GROUND SURFACE	SNOW'S BROOK	WETLANDS	RESIDENT'S BASEMENT
Method Use to Estimate volume	VISUAL	VISUAL	VISUAL	VISUAL	VISUAL	VISUAL
Nearest CB location ID	CB-2182	CB-7980	CB-3330	CB-3935	NONE	CB-1698
Distance to Nearest CB (ft.)	11	85	40	200	NONE	58
Name of receive Water whether or not there was a release	WEST MEADOW BROOK	DRAINAGE SWALE THEN PEABODY BROOK	MERRIMACK RIVER	SNOW'S BROOK	WETLANDS	NA
Entered CB Yes or No						
Measure Taken to Stop SSO	FIX BUBBLE LINE	INSTRUCT PLANT STAFF	FLUSH SEWER MAIN	FLUSH SEWER MAIN	FLUSH SEWER MAIN	FLUSH SEWER MAIN
Decontaminate	YES	YES	YES	YES	YES	PRIVATE
vieasures taken to prevent	BUBBLER LINE WAS REPAIRED AND BACKUP FLOATS WERE ADDED.	INSTRUCT WWTP STAFF TO MONITOR TANK LEVELS	CCTV'D NO OTHER ACTIONS ARE REQUIRED	CCTV'D NO OTHER ACTIONS ARE REQUIRED	CCTV'D NO OTHER ACTIONS ARE REQUIRED	
SEWERAGE LOCATION INTO STREAM	UNK0667	MR23513		SNOW'S BROOK	WETLANDS	NO



4.1 CONSTRUCTION SITE INSPECTION AND ENFORCEMENT PROGRAM

At their June 26, 2018 Haverhill City Council meeting, the Council passed and adopted a Pre and Post Construction Stormwater Management Ordinance as required as part of the Consent Decree.

Currently, there are no "non-exempt" projects within the City that meet the requirement of one acre or more of land disturbance that would require an individual stormwater permit and thus no site inspections have been conducted and enforcements made during this Reporting Period. Thus far, projects meeting the one acre and MS4 connection requirements have been exempt under the Ordinance due to their being permitted by the Conservation Commission under the Massachusetts stormwater regulations. In addition, the Ordinance has served as a deterrent, as there have been instances where projects have been redesigned to reduce proposed disturbances to less than one acre.

GENERAL STATUS

5.1 INTRODUCTION

This section summarizes the actions taken by the City of Haverhill to achieve Consent Decree compliance within the Reporting Period.

For the eighth Reporting Period (January through June 2020) there were two deliverables and/or activities due within that timeframe to achieve compliance. The two deliverables/activities are shown in Table 5-1 below.

The City continuous to make progress related to their Combined Sewer Overflow Final Long-Term Control Plan, however anticipated bidding of the CSO Dry Weather Connector Pipe Improvements in Spring 2020 was delayed due to Covid-19.

Major construction activities have been completed for both the Odor Control and Administration Building HVAC Improvements at the City's Water Pollution Abatement Facility, where both projects were granted Substantial Completion in June.

The City is developing an application for a Massachusetts Clean Water Trust Asset Management Grant with an anticipated amount of \$250,000 to be submitted during the next reporting period. This grant will assist the City towards developing an asset management plan for its sewer and stormwater system that will provide a risk-based approach towards rehabilitation.

A draft Request for Qualifications for the design of the City's Water Pollution Abatement Facility's Rehabilitation and Upgrade Project has been prepared.

The City has requested that their cleaning and inspection subcontractor, Ted Berry, add the Upper Siphon and connecting interceptor be added to their scope of services.

The City is also currently reviewing their computer maintenance management system (CMMS) to seek another CMMS that will be utilized to develop consequence of failure and likelihood of failure values through CCTV to be inputted into the City's long-term CIP.

In addition to CSO progress and improvements at the WPCF, in January 2020, the City filled the following positions:

- Water/Wastewater Asset Manager: responsible for tracking activities utilizing the City's CMMS.
- Industrial Pretreatment Program/Stormwater Manager: responsible for the City MS4
 Permit and tracking IDDE and CMOM Progress.

The City is also actively searching to fill the Collection System Supervisor and Operator position vacancies, as stated in Section 1.

Work orders generated from the City's computerized maintenance management system, MaintStar, for the outfall inspection program from January through June 2020 are attached to this Compliance Report in Appendix A. There were no work orders generated for outfall investigations during this reporting period.

TABLE 5-1
SUBMISSIONS WITHIN CURRENT REPORTING PERIOD

Part	Activity	Due Date	Submittal Date			
Effe	Effective Date of Consent Decree (11/10/2016)					
М	CSO Monitoring					
	Annual CSO Activation Report	5/1/2020	4/17/2020			
IX	Compliance Reporting					
	Compliance Report No. 7	4/30/2020	4/28/2020			

5.2 ISSUES OF NONCOMPLIANCE

The City is in compliance with the requirements of this Consent Decree.

5.3 LOOKING AHEAD - SIX MONTH FORECAST

The anticipated future deliverable required under the Consent Decree for the next Reporting Period, July through December 2020, is shown in Table 5-2.

TABLE 5-2 FUTURE DELIVERABLES DURING THE PROCEEDING REPORTING PERIOD (JULY THROUGH DECEMBER 2020)

Part	Activity	Trigger Event	# Days Due Post Trigger Event	Due Dates
Effec	ctive Date of Consent Decree	11/10/2016		
IX	Compliance Reporting			
	Compliance Report No. 8	4/30/20	180	10/31/2020

SECONDARY TREATMENT BYPASS

6.1 INTRODUCTION

The intent of this section is to summarize the secondary treatment bypass events that occurred at the City of Haverhill's Water Pollution Abatement Facility during the reporting period, January through June 2020.

6.2 BYPASS EVENTS

There were no secondary treatment bypass events that occurred during the reporting period. Particularly of note, this is the fifth consecutive reporting period (two and a half years), that the secondary treatment bypass facilities have not been activated. They have not been activated since September 7, 2017.

CMOM CORRECTIVE ACTION PLAN

7.1 INTRODUCTION

Pursuant to the Consent Decree, the City of Haverhill submitted the Capacity, Management, Operation, and Maintenance Program Assessment Corrective Action Plan (CMOM), dated February 22, 2017, to MassDEP and EPA. In their review letter dated August 3, 2017, MassDEP requested that a summary of the status of CMOM-Related corrective actions that occurred during the reporting period be included in the Compliance Reporting.

7.2 CMOM CORRECTIVE ACTIONS

The CMOM identified 27 deficiencies, their recommended corrective actions, and an implementation schedule, which are listed below in Table 7-1. Table 7-1 also provides an updated status for each corrective action.

7.3 ADDITIONAL CMOM-RELATED ACTIVITIES

In conjunction with the corrective activities, the City has also performed additional activities as outlined and recommended in the CMOM Program, which includes collection system maintenance and construction activities. The expenses related to collection system maintenance activities performed from January through June 2020 (Reporting Period 8) are listed in Table 7-2 below.

In addition, continued construction activities occurred during the reporting period include the sewer repair and replacement included under the Phase II Water Transmission Main and Distribution Improvements, DWSRF #4397. The total bid price for the sewer work within the contract was approximately \$2,000,000. Funds expended for this reporting period is \$630,430, which includes activities such as spot repairs, sewer reconstruction, and the use of trenchless technology. In total, approximately 60% of the project is complete.

Table 7-1 CMOM Corrective Action Plans & Status

Action #	Deficiency	Recommended Corrective Action	Implementation Schedule	Status
1	The City does not have a formal long-term plan to mitigate SSO.	The recommendations in the Wastewater Treatment Plant & Collection System Staffing Analysis (Woodard & Curran, 2017), Collection System CIP and Sewer Inspection SOP (Appendices B and F), and the Pump Station Evaluation (Wright Pierce, 2016) will serve as a long term plan to reduce the causes of SSOs.	Ongoing	The City has a capital improvement plan which includes recommendations from the Wastewater Treatment Plant & Collection System Staffing Analysis, Collection System CIP and Sewer Inspection SOP, and the Pump Station Evaluation which is the long-term plan to reduce the causes of SSOs. A majority of SSO's are caused by unanticipated sewer blockages. Every effort is taken to minimize the overflow and to take corrective action to prevent reoccurrences. The City has made great strides in order to reduce the number of SSOs over the years, which has seen a downward trend in the annual total occurrences.
2	The City does not have a comprehensive system to prioritize investigations, repairs, and rehabilitation.	Use the risk-based methods described in Appendices B and F from Capacity, Management, Operations and Maintenance (CMOM), Program Assessment and Corrective Action Plan prepared by Woodard & Curran (February 2017) to prioritize investigations, repairs, and rehabilitation.	Ongoing	A PEF was submitted to complete planning and implementation of various CMOM corrective action plans including pipe inspections. The City has also began adding CCTV and LOF pipe ratings to their new CMMS software (Utility Cloud). The City has also added sewer rehab/repair work to the Water Departments Phase II water main replacement project, which included CCTV and inspection of about 19,000 ft of sewer, and design of all excavation sewer repairs. This project began in September 2019 and is expected to cost about \$1.8 million. The City to continue utilizing Engineering services for risk-base method whenever there is a water, sewer, or other infrastructure project as their standard operating procedure. The City has hired an Asset Manager who will update, revise, and develop further CoF and LoF values that will be used to develop the City's long-range CIP. The City will use this data and incorporate into a capital asset planning tool.

Table 7-1 CMOM Corrective Action Plans & Status

Action #	Deficiency	Recommended Corrective Action	Implementation Schedule	Status
3	The City does not have updated job descriptions that match technical requirements for a modern collection system utility.	Update job descriptions for the revised organizational structure proposed in the Wastewater Treatment Plant & Collection System Staffing Analysis (Woodard & Curran, 2017)	Within one year after EPA approves the CMOM Action Plan	Complete.
4	Although the City training program includes some key safety training, staff would benefit from a formalized safety and technical training program.	Implement a staff training program using the guidelines outlined in Appendix C.	Within one year after EPA approves the CMOM Action Plan	The City is in contact with innovative safety to put a training schedule in place. Currently, the City provides annual CPR/AED, Lockout/Tagout training to its wastewater system employees.
5	Although the City uses MaintStar to track customer complaints, they do not use the database to prioritize preventative maintenance.	Annually review customer complaint data using GIS to identify areas that may require further investigation.	Within one year after EPA approves the CMOM Action Plan	On going
6	The City lacks a comprehensive, risk-based approach to maintenance planning.	Use the risk-based methods described in Appendices B and F from CMOM Program Assessment and Corrective Action Plan prepared by Woodard & Curran, February 2017 to prioritize investigations, repairs, and rehabilitation.	Ongoing	The City's Asset Manager will use the risk base approach from Appendix B and F from the CMOM Program Assessment and Corrective Action Plan prepared by Woodard & Curran, February 2017, along with developing a CIP
7	Local limits need to be updated.	Perform a local limits study and update the limits table in the ordinance (per Appendix E, Sewer Ordinance Review from CMOM Program Assessment and Corrective Action Plan prepared by Woodard & Curran, February 2017).	Within one year after EPA approves the CMOM Action Plan	Final NPDES Permit went into effect on January 1, 2020. Local limits evaluation is being finalized and should be ready December 2021.

Table 7-1 CMOM Corrective Action Plans & Status

Action #	Deficiency	Recommended Corrective Action	Implementation Schedule	Status
8	The City needs to improve implementation and enforcement of their Sewer Use Ordinance (SUO).	Improve implementation and enforcement of the SUO. Begin mapping Food Service Establishments in GIS and building database of grease trap inspectional data.	Within one year after EPA approves the CMOM Action Plan	Utility Cloud (CMMS) has been updated to reflect all food service establishments (FSE) and is updated as new permits are submitted. The City hired Watermark Environmental Inc. to conduct FSE annual FOG inspections and to update Utility Cloud system with pass/fail designations. The City is awaiting on a scope and fee from Hoyle and Tanner to review our SUO and Enforcement Response Plan
9	The City should update recordkeeping pertaining to private systems.	Input private lift stations into CMMS to track issues & contact information.	Within three months after EPA approves the CMOM Action Plan	Complete.
10	The City does not have a finalized version of their capital improvement plan – which will include pump station upgrades, collection system rehabilitation, and WWTP upgrades.	The City should finalize their CIP and appropriate funds as necessary.	Within three months after EPA approves the CMOM Action Plan	Complete, and as part of the annual budget process, the city updates the CIP each year. The CIP is used to develop the wastewater 5-year financial plan to fund the CIP. The CIP includes pump station upgrades, collection system rehabilitation, and WWTP upgrades. In order to fund the CIP, the City has raised sewer user rates by 40% over the last four years.
11	The City does not have a finalized version of their capital improvement plan – which will include pump station upgrades, collection system rehabilitation, and WWTP upgrades.	The City should finalize their CIP and appropriate funds as necessary.	Within three months after EPA approves the CMOM Action Plan	Complete, See status of Action #10.
12	The City has not verified that other air relief valves do not exist. Maintenance of air relief valves has not been performed historically.	Review record drawings and inspect force main routes to confirm location of air relief valves. If located, enter in GIS and schedule routine maintenance in CMMS.	Within one year after EPA approves the CMOM Action Plan	Ongoing.
13	The City does not have a standard procedure for maintaining safety training records.	The City will utilize their CMMS program to organize safety training records.	Within one year after EPA approves the CMOM Action Plan	Ongoing The city will incorporate training in the new CMMS utilizing a problem code for training.

Table 7-1 CMOM Corrective Action Plans & Status

Action #	Deficiency	Recommended Corrective Action	Implementation Schedule	Status
14	The City has a general emergency response plan (ERP). The Division recently completed an ERP for responding to SSOs. The Division lacks ERP for other collection system emergencies.	Develop ERP for collections-specific emergencies, in particular those affecting critical assets. For example, there should be an SOP for providing backup power to pump stations during a system-wide power outage.	Within one year after EPA approves the CMOM Action Plan	Complete. The City has purchased a vac-truck, which is scheduled for delivery in Spring 2021. The ERP will be updated to incorporate the utilization of the vac-truck.
15	The City does not have formal emergency response training.	Implement a program for training and practicing emergency response.	Within one year after EPA approves the CMOM Action Plan	The City is working with Innovative Safety to put a training schedule in place. The City plans to get all necessary training done to be OSHA compliant.
16	The City has a hydraulic model for interceptors and CSOs, but there is no city-wide hydraulic model.	Although developing a comprehensive hydraulic model is not a high priority, Woodard & Curran recommends building out the model as required to address capacity issues and plan for new development as the need arises.	As Needed	The City's GIS system is updated on an ongoing basis which will provide a good foundation for a future model.
17	The City does not have adequate staff to perform sufficient preventative maintenance on all 36 pump stations part of the collection system.	Follow the recommendations of the Wastewater Treatment Plant & Collection System Staffing Analysis (Woodard & Curran, 2017) to assign sufficient resources to keep up with required maintenance.	Within one year after EPA approves the CMOM Action Plan	The City developed a job description for a new Collection System MEO/laborer and hired a qualified candidate. The City outsources many tasks. See response to Item #19. The Mission Systems improve the monitoring of pump stations resulting in reduced staff time for routine inspections (weekly vs. daily) and more time on preventative maintenance.

Table 7-1 CMOM Corrective Action Plans & Status

Action #	Deficiency	Recommended Corrective Action	Implementation Schedule	Status
18	Although there is generally sufficient redundancy of pumps and level controls, some stations require specific upgrades related to redundancy.	The City will utilize the recommendations of the Pump Station Evaluation (Wright Pierce, 2016) to evaluate future rehabilitation. The City is planning for Carleton Street PS and North Ave PS to be in construction by EOY 2019.	Ongoing	The replacement/upgrades to the Carleton Street and North Avenue Pump Stations are complete and online. The City will be standardizing all their pump stations during upgrades and additional pump stations will be recommended for rehabilitation/upgrades as outlined in the Pump Station CIP. Mission alarms are currently installed in sixteen (16 out of 36) lift stations with seven (7) budgeted for FY 21. The remaining thirteen (13) will be budget over the next few fiscal years. All lift station with bubblers will be changed to Vega Radar level control with backup floats. Six (6) station have been budgeted for this upgrade.
19	Not all pump stations have communication ability. Lack of communication at pump stations has contributed to SSOs.	The City will utilize the recommendations of the SCADA Study (Woodard & Curran, 2011) and Pump Station Evaluation (Wright Pierce, 2016) to evaluate communication improvements.	Ongoing	All pump stations have the ability to communicate alarms. City has selected the use of Mission Alarm and Monitoring Systems for communication. Currently, 16 out of the City's 36 pump stations have Mission Systems. The City has budgeted money to install Mission RTU alarms at 5+/- additional stations this fiscal year (the number of stations will depend on the bid price). The City will be continuing to install Mission Systems until all lift stations are equipped, which is estimated to be complete within the next five years.

Table 7-1 CMOM Corrective Action Plans & Status

Action #	Deficiency	Recommended Corrective Action	Implementation Schedule	Status
20	11 pump stations do not have working backup power, though most of these have connections for a portable generator or are small enough to pump out.	The City will utilize the recommendations of the SCADA Study (Woodard & Curran, 2011) and Pump Station Evaluation (Wright Pierce, 2016) to evaluate emergency power improvements. Develop an ERP to address a system-wide power outage including monitoring fuel supplies, mobilizing portable generators, and pumping out with trucks.	Ongoing ERP for system wide power outage will be developed within three months after EPA approves the CMOM Action Plan	Ongoing. There are currently seven stations without backup generators. The ERP will be updated to include new generator at the North Avenue Station and the use of the City's new vac-truck.
21	There is currently no schedule for cleaning sewer lines on a system-wide basis.	The City will utilize a 20-year plan to inspect all sewer pipes calculated to have a consequence of failure value ≥ 3 (approximately 57% of system). See the Collection System CIP (Appendix B) for additional information.	Will begin to implement program within six months after EPA approves the CMOM Action Plan	The City has focused on cleaning major interceptors and siphons to increase capacity and storage within the system. The Middle Siphons, Middle Interceptor, Bradford Interceptor, and all combined sewers in the Locke St CSO catchment area were cleaned in 2019, as well as as-needed projects. The City has purchased their own vac truck (anticipated delivery Spring 2021)
22	The City does not have a dedicated location for offloading and dewatering sewer cleanings. The City does not have an enclosed location for storage of their sewer maintenance vehicles.	The City will purchase a dewatering dumpster for sewer cleanings. The City will construct a facility for storage of sewer maintenance vehicles.	Within three years after EPA approves the CMOM Action Plan	Dewatering dumpsters – Complete. Maintenance Vehicle Facility – Included in 5- year CIP
23	The City does not have a list of assets located on right-of-ways. The City has also not developed an SOP for maintenance of right-of-ways and easements.	Identify off-street assets using GIS. Schedule preventative maintenance for maintaining accessibility in CMMS. Develop SOPs for specific easements as necessary, including contacting property owners to obtain keys, etc.	Within two years after EPA approves the CMOM Action Plan	The City has inputted easements into GIS and assets. These assets will be populated, and SOPs will be made; as well as the development of preventative maintenance plan.

Table 7-1 CMOM Corrective Action Plans & Status

Action #	Deficiency	Recommended Corrective Action	Implementation Schedule	Status
24	There is no systematic program for uncovering manholes that have been paved over.	Develop an SOP which includes: • Identification of paved over manholes as part of routine inspections • Add paved-over manholes to GIS. • Adding work orders to CMMS for raising paved-over manholes.	Within two years after EPA approves the CMOM Action Plan	The City's highway department distributes a street paving list to each department. The engineering department investigates those streets and puts a list together of buried manholes. This list is then given to the contractor and the contractor raises the manholes. Paved over manholes are added to GIS on an ongoing basis as they are discovered.
25	Although the City has identified areas with high measured inflow, building inspections have not been performed.	The City will perform trial building inspections to a sample of 10% of buildings located in Areas 14 & 23 Infiltration and Inflow Report (CDM Smith, 2011). Sample brochures will be sent out to buildings where inspections are not successfully completed.	Within two years after EPA approves the CMOM Action Plan	The City is considering this as part of their Phase 3 CSO work however recommended corrective action is only practical in separated sewer areas. Under Phase 3 CSO, the City will evaluate the development of informative brochures to send to all homeowners.
26	The City lacks public education materials associated with roof leaders and sump pumps.	The City will consider using a public education campaign to inform residents of proper plumbing in areas of separated sewer.	Within one year after EPA approves the CMOM Action Plan	The City is considering this as part of their Phase 3 CSO work. Refer to Item #25 status
27	The City does not have a system-wide manhole inspection program.	Perform manhole inspections using NASSCO Level 1 MACP. Prioritize and schedule using the risk-based approach described in Appendices B and F rehabilitation. The City plans to complete manhole inspections while performing pipe inspections.	Will begin to implement program within six months after EPA approves the CMOM Action Plan	Manholes inspection are ongoing as part of pipe inspections. As the City contracts with engineering firms for CCTV work, their scope will also include manhole inspections. The City has implemented NAASCO MACP sewer inspection standards and requires contractors to be NAASCO certified when performing inspections. In addition, MACP Level 1 form has been created in the City's CMMS Utility Cloud.

In December 2019, a 36-inch diameter sewer failed at a bridge abutment. This sewer repair project included both replacement and rehabilitation construction. Approximately 30 linear feet of sewer was replaced with new ductile iron pipe via conventional open cut construction; and approximately 265 linear feet of sewer was rehabbed with cured-in-place liner. The total project cost for this repair work was \$507,000.

The City has developed a "Sink Hole Crew" comprised of Water, Highway and Collection Division employees. In the event that a sink hole is found within the City, a multi-divisional investigation is conducted and repairs, if warranted, are completed.

TABLE 7-2 CMOM-RELATED EXPENSES THAT OCCURRED DURING REPORTING PERIOD 8 (JANUARY THROUGH JUNE 2020)

Account	Funds Expended During Reporting Period	Account Description
Lift Station Operation and Maintenance	\$98,101	Used to fund day-to-day costs for maintenance and repair of the wastewater collection system.
Sewer Assessment & Inspection	\$37,880	Used to fund cleaning, CCTV inspection, and assessment of sewer lines and grit removal
Service Contracts	\$39,607	Used to fund the annual service contracts for various items in the wastewater department.
Wastewater Infrastructure	\$83,994	This account is use for sewer repair miscellaneous items. This is an annual appropriation funded from current year revenues.
Wastewater Capital	\$16,662	Funds are used for expenditures greater than \$10,000 with a life greater than 3-years. This is an annual appropriation funded from current year revenues.
Storm Water - Capital	\$34,100	Funds capital expenditures greater than \$10,000 with a life greater than 3-years. Funds are annual appropriations from user rates and fees.
Stormwater Expense	\$23,099	Funds various expenses related to stormwater system operation and maintenance, street sweeping, federal and state permit requirements, and the downtown flood system.
Total Spent During Reporting Period	\$333,442	

APPENDIX A

CMMS GENERATED WORK ORDERS – OUTFALL INSPECTIONS

Haverhill IDDE Inspection Form Catch Basin

	CKGROUND DATA										
Date/Time: 2	CB-3318					OUTFALL ID:	PL0891				
Temperature: °F 7	2020-06-18 8:32:00 70					Inspector(s):	James Conte Jesse Middleto	on Zebulan Dav	Justin Mazzotta		
Street Name/Structi		MAIN ST						,			
		2020-06-11 12:4	5:00		Amount (inches):	0.2			MAN INC.	142.40	
Pictures											
SECTION 2: OU	TLET PIPE ASSET DES			Material			Shape	Diamete	er/Dimension (in.)	Submerged	
CB Outlet Pipe	Fair		Reinforced				Circle		30	In Water: No With Sediment: No	
Location Location	NLET PIPE NO. 1 ASSET		ON Material	Clack Pastian (Outl	at Pine at 6:00)		Shana		Diameter/Dimension (i	n.) Submerged	
	Upstream Asset ID	Cement	riasci iai	Clock Postion (Outl			Shape			In Water: No	
Inlet Pipe No. 1	DMH-1153	Concrete		9:00			Circle		12	With Sediment: No	
SECTION 3A: II	NLET PIPE NO. 1 PHYS	ICAL INDICAT	ΓORS								
	Indicate			Ind	licator Present?			Ir	dicator Description		
	Asset Dan Deposits/S				None		-				
	Pool Qua				None						
	Pipe Algae/C	Growth			None						
*Do ph	ysical indicators suggest an ill		resent (Y/N):		No						
CECTION 2	Is Inlet Pipe No.		PODE (+1 1 Er or	NC ACCEPTO	No				Estin	mated GPM:	
	NLET PIPE NO. 1 PHYS Indicator	ICAL INDICAT	Indicator Present (Yes/				Description			Severity	
	Odor		muicator r resent (Yes/	110)			Description			severny	
	Color										
	Turbidity		-				-				
	oes Not Include Trash)									-	
	NLET PIPE NO. 1 SAMP	LING/TESTIN	G RESULTS (ALL F	LOWING ASSETS)							
	ole Date/Time: Parameter		Res	le		Tenic	eal EPA Benchmarks		Fau	ipment	
	ature (degrees F)		Ke	suit		Турк	ai Er A Benchmarks			PH and Temp meter	
	рН									PH and Temp meter	
	Conductivity (uS)									or EXTECH EC500	
	inity (ppm S) lorine (ppm)						≥ Reporting Limit			CH EC500 et Colorimeter	
	monia (mg/L)					·	≥ 0.5 mg/L			sent to lab	
	actants (mg/L)						≥ 0.25 mg/L			nna Instruments HI96769C	
	li (cfu/100mL)					3	> 235 cfu/100mL		To be	sent to lab	
	occus (cfu/100mL)						> 61 cfu/100mL		m. 1		
Phos	phorus (mg/L)						> 01 Ctu/100IIIL			sent to lab	
							> 01 CIW TOOME			sent to lab	
operator	UL DE DIPO NO	E DECORE	W.				> 01 CIW TOOML				
	NLET PIPE NO. 2 ASSET			Clask Pasting (O. 3)	let Pine at 6,000				To be :	sent to lab	
Location	Upstream Asset ID	M	DN Material	Clock Postion (Outl			Shape		To be : Diameter/Dimension (i	sent to lab	
				Clock Postion (Outl					To be :	n.) Submerged	
Location Inlet Pipe No. 2	Upstream Asset ID	Poly Vinyl Chloride	Material				Shape		To be : Diameter/Dimension (i	n.) Submerged In Water: No	
Location Inlet Pipe No. 2	Upstream Asset ID DMH-7891 NLET PIPE NO. 2 PHYS Indicate	Poly Vinyl Chloride ICAL INDICAT	Material	12:00	licator Present?		Shape		To be : Diameter/Dimension (i 8 Idicator Description	n.) Submerged In Water: No	
Location Inlet Pipe No. 2	Upstream Asset ID DMI-7891 NLET PIPE NO. 2 PHYS Indicate Asset Dan	Poly Vinyl Chloride ICAL INDICAT or nage	Material	12:00	licator Present?		Shape		To be : Diameter/Dimension (i	n.) Submerged In Water: No	
Location Inlet Pipe No. 2	Upstream Asset ID DMH-7891 NLET PIPE NO. 2 PHYS Indicate	Poly Vinyl Chloride ICAL INDICAT or nage tains	Material	12:00	licator Present?		Shape		To be : Diameter/Dimension (i 8 Idicator Description	n.) Submerged In Water: No	
Location Inlet Pipe No. 2 SECTION 3B: IN	Upstream Asset ID DM4-7891 NLET PIPE NO. 2 PHYS Indicate Asset Dan Deposits/S Pool Qua	Poly Vinyl Chloride ICAL INDICAT or mage tains dity Growth	Material FORS	12:00	licator Present? Other None		Shape		To be : Diameter/Dimension (i 8 Idicator Description	n.) Submerged In Water: No	
Location Inlet Pipe No. 2 SECTION 3B: IN	Upstream Asset ID D##-7891 NLET PIPE NO. 2 PHYS Indicate Asset Dan DepositsS Pool Qua Pipe Algac/C ysical indicators suggest an ill	Poly Vinyl Chloride ICAL INDICAT or nage tains dility Growth licit discharge is pr	Material FORS	12:00	dicator Present? Other None None None		Shape	Ir	To be: Diameter/Dimension (i 8 dicator Description Pipe caved in	n.) Submerged In Water: No With Sediment: No	
Location Inlet Pipe No. 2 SECTION 3B: IN	Upstream Asset ID D##-7891 NLET PIPE NO. 2 PHYS Indicate Asset Dan DeposityS Pool Qua Pipe Algae/C ysical indicators suggest an ill Is Inlet Pipe No.	Poly Vinyl Chloride ICAL INDICAT or nage tains dilty Growth licit discharge is pr 2 Flowing?	FORS resent (Y/N):	12:06	licator Present? Other None None None		Shape	Ir	To be: Diameter/Dimension (i 8 dicator Description Pipe caved in	n.) Submerged In.Water. No With Sediment: No	
Location Inlet Pipe No. 2 SECTION 3B: IN *Do ph SECTION 3B: IN	Upstream Asset ID DM4-7891 NLET PIPE NO. 2 PHYS Indicate Asset Dan Deposits/S Pool Qua Pipe Algae/C ysical indicators suggest an ill Is Inter Pipe No. NLET PIPE NO. 2 PHYS	Poly Vinyl Chloride ICAL INDICAT or nage tains dilty Growth licit discharge is pr 2 Flowing?	FORS resent (Y/N):	Ind Ind ASSETS)	dicator Present? Other None None None		Shape Circle	Ir	To be: Diameter/Dimension (i 8 dicator Description Pipe caved in	n.) Submerged In Water. No With Sediment. No	
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Location Inlet Pipe No. 2 SECTION 3B: IN *Do ph SECTION 3B: IN	Upstream Asset ID D##-7891 NLET PIPE NO. 2 PHYS Indicator Asset Dan DeposityS Pool Qua Pipe Algae/C ysical indicators suggest an ill Is Intet Pipe No. NLET PIPE NO. 2 PHYS Indicator Odor Color Turbidity	Poly Vinyl Chloride ICAL INDICAT or nage tains dilty Growth licit discharge is pr 2 Flowing?	FORS resent (Y/N):	Ind Ind ASSETS)	dicator Present? Other None None None		Shape Circle	Ir	To be: Diameter/Dimension (i 8 dicator Description Pipe caved in	n.) Submerged In Water. No With Sediment. No	
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Location Inlet Pipe No. 2 SECTION 3B: IN "Do ph SECTION 3B: IN Floatables (D SECTION 3B: IN Samp IF Temper Specific Sali	Upstream Asset ID D##-7891 NLET PIPE NO. 2 PHYS Indicate Asset Dan Deposits/S Pool Qua Pipe Algae/C ysical indicators suggest an ill Is Inlet Pipe No. NLET PIPE NO. 2 PHYS Indicator Odor Color Turbidity oes Not Include Trash) NLET PIPE NO. 2 SAMP ale Date/Time: Parameter ature (degrees F) pH Conductivity (uS) inity (ppm S)	Poly Vinyl Chloride ICAL INDICAT or nage tains lifty Growth licit discharge is pr 2 Flowing? ICAL INDICAT	FORS resent (Y/N): FORS (ALL FLOW!! Indicator Present (Yes)	Ind Ind Ind Ind Ind Ind Ind Ind	dicator Present? Other None None None	Typic	Shape Circle Description	Ir	To be: Diameter/Dimension (i 8 dicator Description Pipe caved in Esti Extre EXTER EXTER EXTER EXTER EXTER	In Submerged In Water. No With Sediment. No Severity Severity Severity In ECS00 CH ECS00	
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Location Inlet Pipe No. 2 SECTION 3B: IN *Do ph SECTION 3B: IN Floatables (DI SECTION 3B: IN Temper Specific Sali Chi Ami	Upstream Asset ID D##-7891 NLET PIPE NO. 2 PHYS Indicate Asset Dan DepositsS Pool Qua Pipe AlgaeC, ysical indicators suggest an ill Is Inlet Pipe No. NLET PIPE NO. 2 PHYS Indicator Color Turbidity oes Not Include Trash) NLET PIPE NO. 2 SAMP ble Date/Time: Parameter ature (degrees F) pH Conductivity (uS) indire (ppm) monia (mg/L)	Poly Vinyl Chloride ICAL INDICAT or nage tains lifty Growth licit discharge is pr 2 Flowing? ICAL INDICAT	FORS resent (Y/N): FORS (ALL FLOW!! Indicator Present (Yes)	Ind Ind Ind Ind Ind Ind Ind Ind	dicator Present? Other None None None	Typic	Shape Circle Circle Description	Dye from	To be: Diameter/Dimension (i 8 Idicator Description Pipe caved in Sewer showed up in Extin Extin Extre EXTEC EXTEC EXTEC EXTEC Hach I Hach I	In Water: No With Sediment: No Severity Severity Lipment CH ECS00 CH ECS0	
Location Inlet Pipe No. 2 SECTION 3B: IN "Do ph SECTION 3B: IN Floatables (Do SECTION 3B: IN Samp F Temper Specific (Ammer) Surfa	Upstream Asset ID D044-7891 NLET PIPE NO. 2 PHYS Indicate Asset Dan Deposits'S Pool Qua Pipe Algae(C ysical indicators suggest an ill Is Inlet Pipe No. NLET PIPE NO. 2 PHYS Indicator Odor Color Turbidity oses Not Include Trash) NLET PIPE NO. 2 SAMP ple Date/Time: Parameter ature (degrees F) pH Conductivity (uS) inity (ppm S) lorine (ppm)	Poly Vinyl Chloride ICAL INDICAT or nage tains lifty Growth licit discharge is pr 2 Flowing? ICAL INDICAT	FORS resent (Y/N): FORS (ALL FLOW!! Indicator Present (Yes)	Ind Ind Ind Ind Ind Ind Ind Ind	dicator Present? Other None None None	Typic	Shape Circle Circle Description	Dye from	To be: Diameter/Dimension (i 8 dicator Description Pipe caved in Sewer showed up in Esti Extre EXTEC EXTEC EXTEC EXTEC EXTEC Hach 7 to be sent to Lab or CHE	In Water. No With Sediment. No No With Sediment No No No No No No No No No No No No No	
Location Inlet Pipe No. 2 SECTION 3B: IN *Do ph SECTION 3B: IN Floatables (De SECTION 3B: IN Temper: Specific Chi Amm Surfa E.col Enteroco	Upstream Asset ID DM4-7891 NLET PIPE NO. 2 PHYS Indicate Asset Dan DepositsS Pool Qua Pipe Algae/C ysical indicators suggest an ill Is Inlet Pipe No. NLET PIPE NO. 2 PHYS Indicator Color Cubor Cubor Cubor Lurbidity oes Not Include Trash) NLET PIPE NO. 2 SAMP ple Date/Time: Parameter ature (degrees F) pH Conductivity (uS) inity (ppm S) Inotine (ppm) Inonia (mg/L) sectants (mg/L) ic (ctu/100mL) ic (ctu/100mL)	Poly Vinyl Chloride ICAL INDICAT or nage tains lifty Growth licit discharge is pr 2 Flowing? ICAL INDICAT	FORS resent (Y/N): FORS (ALL FLOW!! Indicator Present (Yes)	Ind Ind Ind Ind Ind Ind Ind Ind	dicator Present? Other None None None	Typic	Shape Circle Circle Description Description ERPA Benchmarks Reporting Limit Reporting Limit 2 0.05 mg/L 2 0.25 mg/L	Dye from	Equence of the control of the contro	In. Submerged In. Water: No With Sediment: No With Sediment: No It ine mated GPM: Severity	
Location Inlet Pipe No. 2 SECTION 3B: IN *Do ph SECTION 3B: IN Floatables (De SECTION 3B: IN Temper Specific t Sain Chi Ann Surfa E.col	Upstream Asset ID D##-7891 NLET PIPE NO. 2 PHYS Indicate Asset Dan Deposits'S Pool Qua Pipe Algae/C ysical indicators suggest an ill Is Inlet Pipe No. NLET PIPE NO. 2 PHYS Indicator Odor Color Turbidity ose Not Include Trash) NLET PIPE NO. 2 SAMP Ale Date/Time: Parameter ature (degrees F) pH Conductivity (uS) inity (ppm S) Iorine (ppm) monia (mg/L) sectants (mg/L) it (efu/100mL)	Poly Vinyl Chloride ICAL INDICAT or nage tains lifty Growth licit discharge is pr 2 Flowing? ICAL INDICAT	FORS resent (Y/N): FORS (ALL FLOW!! Indicator Present (Yes)	Ind Ind Ind Ind Ind Ind Ind Ind	dicator Present? Other None None None	Typic	Shape Circle Circle Description	Dye from	Equence of the control of the contro	In Water. No With Sediment No	

on on tox a c		m n no con en en en e								
Location Location	Upstream Asset ID	T DESCRIPTION Material	Clock Postion (Outl	et Pipe at 6:00)		Shape		Diameter/Dimension (in.	.) Sub	merged
Inlet Pipe No. 3	DMH-548	Vitrified Clay	3:00			Circle		24	In Water:	lo .
on on to the		I A TO THE TOTAL MANAGEMENT OF							With Sediment:	lo .
SECTION 3C: 1	INLET PIPE NO. 3 PHYS Indicat		Ind	licator Present?				ndicator Description		
	Asset Dar	nage		Cracking						
	Deposits/S Pool Qua			None None						
	Pipe Algae/G			None						
*Do ph		licit discharge is present (Y/N):		No			* - 13	le e	. LCDM	
CECTION AC A	Is Inlet Pipe No.		NG ACCETO	Yes			Trickle	Estim	ated GPM:	
	INLET PIPE NO. 3 PHYS Indicator	ICAL INDICATORS (ALL FLOWI Indicator Present (Yes	<u> </u>		I	Description			Severity	
	Odor	No				,				
	Color Turbidity	No -				-			Clear	
	Does Not Include Trash)	No							-	
SECTION 3C: I	INLET PIPE NO. 3 SAMI	PLING/TESTING RESULTS (ALL F	LOWING ASSETS)							
	nple Date/Time:	2020-06-18 8:46:00 Re:	14		Touris	-LEDA Dougharde		Ei-		
	Parameter erature (degrees F)	61			Туріса	al EPA Benchmarks		Equip EXTECT		
	pH	7.						EXTEC		
	c Conductivity (uS) dinity (ppm S)	11						EXTEC		
	hlorine (ppm)	0.			2	Reporting Limit		Hach Te		
	nmonia (mg/L)	0.				≥ 0.5 mg/L		Hach Te		
	factants (mg/L) oli (cfu/100mL)	Ø. 198			`	≥ 0.25 mg/L 235 cfu/100mL		Γο be sent to Lab or CHEM To be se		K-9400
Enteroce	coccus (cfu/100mL)	48				61 cfu/100mL		To be se	nt to lab	
Phos	sphorus (mg/L)							To be se	nt to lab	
SECTION 3D: 1	INLET PIPE NO. 4 ASSE	T DESCRIPTION								
Location	Upstream Asset ID	Material	Clock Postion (Outl	et Pipe at 6:00)		Shape		Diameter/Dimension (in		merged
Inlet Pipe No. 4	Under drain no US ID	Clay	4:00			Circle		4	In Water: N With Sediment: N	
SECTION 2D. I	I INLET PIPE NO. 4 PHYS	ICAL INDICATORS							with Sediment.	10
SECTION 3D: I	Indicat		Ind	licator Present?]	ndicator Description		
	Asset Dar			None						
	Deposits/S Pool Qua			None None						
	Pipe Algae/0	Growth		None						
*Do ph	hysical indicators suggest an il Is Inlet Pipe No.	licit discharge is present (Y/N):		No Yes			Substantial	Estim	ated GPM: 1	10
SECTION 3D: I		ICAL INDICATORS (ALL FLOWI	NG ASSETS)	res			Substantial	Estin	ateu Gr M.	10
	Indicator	Indicator Present (Yes			I	Description			Severity	
	Odor Color	No								
	Turbidity	No -				-			Clear	
Floatables (D	Does Not Include Trash)	No							-	
		PLING/TESTING RESULTS (ALL F	LOWING ASSETS)							
	ple Date/Time: Parameter	Re	sult	I	Typica	al EPA Benchmarks		Equip	oment	
Temper	erature (degrees F)									
Specific	pН								H EC500	
	c Conductivity (uS)							EXTEC	H EC500	
	c Conductivity (uS) dinity (ppm S)								H EC500 H EC500	
	linity (ppm S) hlorine (ppm)				2	Reporting Limit		EXTECI EXTECI EXTECI Hach Te	H EC500 H EC500 H EC500 est Strips	
Am	linity (ppm S) hlorine (ppm) nmonia (mg/L)				2	≥ 0.5 mg/L		EXTECI EXTECI EXTECI Hach Te Hach Te	H EC500 H EC500 H EC500 est Strips est Strips	K-9400
Am Surf	linity (ppm S) hlorine (ppm)							EXTECI EXTECI EXTECI Hach Te	H EC500 H EC500 H EC500 est Strips est Strips Mets Detergents Kit I	K-9400
Am Surf E.co Enteroce	linity (ppm S) hlorine (ppm) nmonia (mg/L) factants (mg/L) oli (cfu/100mL) coccus (cfu/100mL)				>	≥ 0.5 mg/L ≥ 0.25 mg/L		EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM To be se	H EC500 H EC500 H EC500 est Strips est Strips fets Detergents Kit I nt to lab	K-9400
Am Surf E.co Enteroce	linity (ppm S) hlorine (ppm) nmonia (mg/L) factants (mg/L) oli (cfu/100mL)				>	≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL		EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM To be se	H EC500 H EC500 H EC500 est Strips est Strips fets Detergents Kit I nt to lab	K-9400
Am Surf E.co Enteroce Phos	llinity (ppm S) hlorine (ppm) namonia (mg/L) factants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE	T DESCRIPTION			>	≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL		EXTECI EXTECI EXTECI EXTECI Hach Te Hach To To be sent to Lab or CHEM To be se To be se To be se	H EC500 H EC500 H EC500 H EC500 st Strips st Strips fets Detergents Kit I nt to lab nt to lab nt to lab	K-9400
Am Surf E.co Enteroce Phos SECTION 3E: II	llinity (ppm S) hlorine (ppm) mmonia (mg/L) factants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L)	T DESCRIPTION Material	Clock Postion (Outl	let Pipe at 6:00)	>	≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL		EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM To be se	H EC500 H EC500 H EC500 st Strips st Strips fets Detergents Kit I nt to lab nt to lab	K-9400 merged
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Am Surf E.co Enteroce Phos SECTION 3E: II Location Inlet Pipe No. 5	llinity (ppm S) hlorine (ppm) mnonia (mg/L) factants (mg/L) factants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PIYS Indicat Asset Dar Deposits/S Pool Que	Material ICAL INDICATORS or nage tains			>	≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL - 61 cfu/100mL		EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM To be se To be se To be se	H ECS00 H ECS00 H ECS00 H ECS00 st Strips st Strips st Strips fets Detergents Kit I nt to lab nt to lab nt to lab	
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Am Surf E.co Enteroce Phos SECTION 3E: II Location Inlet Pipe No. 5 SECTION 3E: II *Do ph	llinity (ppm S) hlorine (ppm) amonia (mg/L) factants (mg/L) oli (cfu/100mL) sphorus (mg/L) sphorus (mg/L) in (LET PIPE NO, 5 ASSE Upstream Asset ID INLET PIPE NO, 5 PHYS Indicat Asset Dar Deposits/S Pool Que Pipe Algace(hysical indicators suggest an il Is Intel' Pipe No, INLET PIPE NO, 5 PHYS Indicator User Indicator Suggest an il Is Intel' Color Intel' Color Intel' Color Intel' Color Intel' Color Intribidity	Material ICAL INDICATORS or nage tains litty Growth licit discharge is present (Y/N): 5 Flowing? ICAL INDICATORS (ALL FLOWE)	Ind		>>	≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL - 61 cfu/100mL - Shape		EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te Hach To be sent to Lab or CHEM To be se	H ECS00 H ECS00 H ECS00 st Strips st Strips st Strips Int to lab Int to lab In Water With Sediment ated GPM:	
Am Surf E.co Enteroce Fateroce Phos SECTION 3E: II Location Inlet Pipe No. 5 SECTION 3E: II *Do ph	linity (ppm S) hlorine (ppm) mnonia (mg/L) factants (mg/L) factants (mg/L) factants (mg/L) factants (mg/L) factants (mg/L) factants (mg/L) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHVS Indicat Asset Dar Deposits'S Pool Que Pipe Algae(hysical indicators suggest an il Is Inlet Pipe No. INLET PIPE NO. 5 PHVS Indicator Upstream Asset Dar Deposits'S Indicator Turbidity Odor Color Turbidity Does Not Include Trash)	Material ICAL INDICATORS or nage tains lifty Growth licit discharge is present (V/N): 5 Flowing? ICAL INDICATORS (ALL FLOWI) Indicator Present (Yes	Ind NG ASSETS) No)		>>	≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L 235 cfu/100mL 61 cfu/100mL Shape Description		EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te Hach To be sent to Lab or CHEM To be se	H ECS00 H ECS00 H ECS00 st Strips st Strips st Strips to lab nt water. With Sediment.	
Am Surf E.co Enteroce Enteroce Phos SECTION 3E: II Location Inlet Pipe No. 5 SECTION 3E: II *Do ph SECTION 3E: II Floatables (D SECTION 3E: II	linity (ppm S) hlorine (ppm) mnonia (mg/L) factants (mg/L) factants (mg/L) factants (mg/L) factants (mg/L) factants (mg/L) factants (mg/L) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHVS Indicat Asset Dar Deposits'S Pool Que Pipe Algae(hysical indicators suggest an il Is Inlet Pipe No. INLET PIPE NO. 5 PHVS Indicator Upstream Asset Dar Deposits'S Indicator Turbidity Odor Color Turbidity Does Not Include Trash)	Material ICAL INDICATORS or nage tains lity Frowth licit discharge is present (Y/N): 5 Flowing? ICAL INDICATORS (ALL FLOWI) Indicator Present (Yes	Ind NG ASSETS) No)			≥ 0.5 mg/L ≥ 0.25 mg/L Shape Shape Description		EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te Hach To be sent to Lab or CHEM To be se	H ECS00 H ECS00 H ECS00 st Strips st Strips st Strips Int to lab Int to lab In Water With Sediment ated GPM:	
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Am Surf E.co Enteroce Fhos SECTION 3E: II Location Inlet Pipe No. 5 SECTION 3E: II *Do ph SECTION 3E: II Floatables (D SECTION 3E: II SECTION 3E: II	linity (ppm S) hlorine (ppm) mmonia (mg/L) factants (mg/L) oli (cfu/100mL) sephorus (mg/L) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Dar Deposits/S Pool Qua Pipe Algae/C hysical indicators suggest an il Is latef Pipe No. INLET PIPE NO. 5 PHYS Indicator Odor Turbidity Does Not Include Trash) INLET PIPE NO. 5 SAMI pipe Does Not Include Trash) INLET PIPE NO. 5 SAMI pipe Does Not Include Trash) INLET PIPE NO. 5 SAMI pipe Date/Time:	Material ICAL INDICATORS or nage tains lity Frowth licit discharge is present (V/N): 5 Flowing? ICAL INDICATORS (ALL FLOWI Indicator Present (Yes	Ind NG ASSETS) No) LOWING ASSETS)		>>>>	≥ 0.5 mg/L ≥ 0.25 mg/L Shape Shape Description		EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te Fo be sent to Lab or CHEM To be se Extinct Extin	H ECS00 H ECS00 H ECS00 St Strips st Strips st Strips st Strips to lab nt to lab st Strips st St	
Am Surf E.co Enteroce Fateroce Phos SECTION 3E: II Location Inlet Pipe No. 5 SECTION 3E: II *Do ph SECTION 3E: II Floatables (D SECTION 3E: II Sam Interpret	linity (ppm S) hlorine (ppm) mnonia (mg/L) factants (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Dar DeposityS Pool Qua Pipe Algae(hysical indicators vaggest an il Is Inlet Pipe No. INLET PIPE NO. 5 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 5 SAMI pipe Date/Time: Parameter Parameter reature (degrees F) pH III Conductivity (uS)	Material ICAL INDICATORS or nage tains lity Frowth licit discharge is present (V/N): 5 Flowing? ICAL INDICATORS (ALL FLOWI Indicator Present (Yes	Ind NG ASSETS) No) LOWING ASSETS)		>>>>	≥ 0.5 mg/L ≥ 0.25 mg/L Shape Shape Description		EXTECT EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te Hach Te To be sent to Lab or CHEM To be se	H ECS00 H ECS00 H ECS00 H ECS00 St Strips st Strips st Strips st Strips Int to lab Int to lab Int to lab Int Water: With Sediment: Severity With Sediment H ECS00 H ECS00 H ECS00	
Am Surf E.co Enteroce Enteroce Phos SECTION 3E: II Location Inlet Pipe No. 5 SECTION 3E: II *Do ph SECTION 3E: II Floatables (D SECTION 3E: II Sam Temper Specific Sal	linity (ppm S) hlorine (ppm) mmonia (mg/L) factants (mg/L) ii (fu/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHVS Indicat Asset Dar Deposits/S Pool Qua Fipe Algae(f hysical indicators suggest an i Is Inlet Pipe No. INLET PIPE NO. 5 PHVS Indicator Odor Culor Turbidity Does Not Include Trash) INLET PIPE NO. 5 SAMI pipe Date/Time: Parameter rature (degrees F) pH Gonductivity (uS) linity (ppm S)	Material ICAL INDICATORS or nage tains lity Frowth licit discharge is present (V/N): 5 Flowing? ICAL INDICATORS (ALL FLOWI Indicator Present (Yes	Ind NG ASSETS) No) LOWING ASSETS)		Typics	≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L 235 cfu/100mL - 61 cfu/100mL Shape Description		EXTECT EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te Hach Te To be sent to Lab or CHEM To be se	H ECS00 H ECS00 H ECS00 St Strips St Strips St Strips St Strips Int to lab Int to lab In Water: With Sediment Severity Severity Mith Sediment BECS00 H ECS00 H ECS00 H ECS00 H ECS00 H ECS00	
Am Surf E.co Enteroce Phos SECTION 3E: II Location Inlet Pipe No. 5 SECTION 3E: II *Do ph SECTION 3E: II Floatables (D SECTION 3E: II Floatables (D SECTION 3E: II Check to the second of the s	linity (ppm S) hlorine (ppm) mnonia (mg/L) factants (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Dar DeposityS Pool Qua Pipe Algae(hysical indicators vaggest an il Is Inlet Pipe No. INLET PIPE NO. 5 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 5 SAMI pipe Date/Time: Parameter Parameter reature (degrees F) pH III Conductivity (uS)	Material ICAL INDICATORS or nage tains lity Frowth licit discharge is present (V/N): 5 Flowing? ICAL INDICATORS (ALL FLOWI Indicator Present (Yes	Ind NG ASSETS) No) LOWING ASSETS)		Typics	≥ 0.5 mg/L ≥ 0.25 mg/L Shape Shape Description		EXTECT EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te Hach Te To be sent to Lab or CHEM To be se	H ECS00 H ECS00 H ECS00 St Strips st Strips st Strips st Strips to lab nt to	
Am Surf E.co Enteroce Phos SECTION 3E: II Location Inlet Pipe No. 5 SECTION 3E: II SECTION 3E: II Floatables (D SECTION 3E: II SecTION 3E: II Ch Amm Surf	linity (ppm S) hlorine (ppm) mnonia (mg/L) factants (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Dar Deposits/S Pool Qua Pipe Algae(f hysical indicators suggest an il Is Inlet Pipe No. INLET PIPE NO. 5 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 5 SAMI pile Date/Time: Parameter erature (degrees F) pH Conductivity (uS) linity (ppm S) hlorine (ppm) mnonia (mg/L) factants (mg/L)	Material ICAL INDICATORS or nage tains lity Frowth licit discharge is present (V/N): 5 Flowing? ICAL INDICATORS (ALL FLOWI Indicator Present (Yes	Ind NG ASSETS) No) LOWING ASSETS)		>> > > > > > > > > > > > > > > > > > >	≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L Shape Shape Description		EXTECT EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te Hach Te To be sent to Lab or CHEM Equip Extent E	H ECS00 H ECS00 H ECS00 H ECS00 H ECS00 st Strips st Strips st Strips st Strips int to lab nt to lab sub nt to lab nt to lab nt to lab nt to lab sub nt to lab nt to lab sub nt to lab nt to lab nt to lab sub nt to lab nt to lab nt to lab sub nt to lab sub nt to lab sub nt Water. With Sediment.	merged
Am Surf E.co Enteroce Phos SECTION 3E: II Location Inlet Pipe No. 5 SECTION 3E: II *Do ph SECTION 3E: II Floatables (D SECTION 3E: II Character Section 3E: II *Temperice Sam Surf Character Am Surf E.co	linity (ppm S) hlorine (ppm) mmonia (mg/L) factants (mg/L) factants (mg/L) oli (cfu/100mL) sphorus (mg/L) linity (ppm) linity (pm) lini	Material ICAL INDICATORS or nage tains lity Frowth licit discharge is present (V/N): 5 Flowing? ICAL INDICATORS (ALL FLOWI Indicator Present (Yes	Ind NG ASSETS) No) LOWING ASSETS)		Typics	≥ 0.5 mg/L ≥ 0.25 mg/L		EXTECT EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te Fo be sent to Lab or CHEM To be se t to Lab or CHEM To CHEM TO SENTER	H EC500 H EC500 H EC500 St Strips St Strips St Strips St Strips St Strips H EC500 St Strips St Strips H EC500 St Strips Sub In Water: With Sediment. Severity Severity Severity With Sediment H EC500 H EC500 H EC500 St Strips	merged
Am Surf E.co Enteroce Phos SECTION 3E: II Location Inlet Pipe No. 5 SECTION 3E: II SECTION 3E: II Temper Specific Sal Ch Am Surf E.co	linity (ppm S) hlorine (ppm) mnonia (mg/L) factants (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Dar Deposits/S Pool Qua Pipe Algae(f hysical indicators suggest an il Is Inlet Pipe No. INLET PIPE NO. 5 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 5 SAMI pile Date/Time: Parameter erature (degrees F) pH Conductivity (uS) linity (ppm S) hlorine (ppm) mnonia (mg/L) factants (mg/L)	Material ICAL INDICATORS or nage tains lity Frowth licit discharge is present (V/N): 5 Flowing? ICAL INDICATORS (ALL FLOWI Indicator Present (Yes	Ind NG ASSETS) No) LOWING ASSETS)		Typics	≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L Shape Shape Description		EXTECT EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te Hach Te To be sent to Lab or CHEM Equip Extent E	H EC500 H EC500 H EC500 H EC500 st Strips st Strips st Strips st Strips Int to lab Int to lab In Water With Sediment Severity Severity Ment of the EC500 H	merged

ECTION 3F: I							
	NLET PIPE NO. 6 ASSET						,
Location	Upstream Asset ID	Material	Clock Postion (Outlet Pipe at	6:00)	Shape	Diameter/Dimension (in.	
nlet Pipe No. 6							In Water: With Sediment:
ECTION 3F: I	NLET PIPE NO. 6 PHYS	ICAL INDICATORS		·			
	Indicate	or	Indicator Pro	esent?		Indicator Description	
	Asset Dan	nage					
	Deposits/S	tains					
	Pool Qua	lity					
	Pipe Algae/C						
*Do pl	hysical indicators suggest an ill	licit discharge is present (Y/N):					
	Is Inlet Pipe No.	6 Flowing?				Estim:	ated GPM:
		ICAL INDICATORS (ALL FLOWIN					
	Indicator	Indicator Present (Yes/	No)	I	Description		Severity
	Odor						
	Color						
	Turbidity	-			-		
Floatables (E	Does Not Include Trash)						
		LING/TESTING RESULTS (ALL FI	LOWING ASSETS)				
	pple Date/Time:						
	Parameter	Res	ult	Typica	al EPA Benchmarks	Equip	
	Parameter rature (degrees F)	Res	ult	Typics	al EPA Benchmarks	EXTECH	I EC500
Tempe	Parameter rrature (degrees F) pH	Res	ult	Typics	al EPA Benchmarks	EXTECH EXTECH	I EC500 I EC500
Tempe	Parameter rature (degrees F) pH c Conductivity (uS)	Res	ult	Typics	al EPA Benchmarks	EXTECH EXTECH EXTECH	I EC500 I EC500 I EC500
Temper Specific Sal	Parameter rature (degrees F) pH c Conductivity (uS) linity (ppm S)	Res	ult			EXTECH EXTECH EXTECH EXTECH	H EC500 H EC500 H EC500 H EC500
Tempe Specific Sal	Parameter rature (degrees F) pH c Conductivity (uS) linity (ppm S) hlorine (ppm)	Res	ult		Reporting Limit	EXTECH EXTECH EXTECH EXTECH Hach Te	I EC500 I EC500 I EC500 I EC500 st Strips
Temper Specific Sal Ch	Parameter rature (degrees F) pH c Conductivity (uS) limity (ppm S) hlorine (ppm) nmonia (mg/L)	Res	ult		Reporting Limit ≥ 0.5 mg/L	EXTECH EXTECH EXTECH EXTECH EXTECH Hach Te	I EC500 I EC500 I EC500 I EC500 st Strips st Strips
Temper Specific Sal Ch Am	Parameter rature (degrees F) pH c Conductivity (uS) linity (ppm S) hlorine (ppm) monia (mg/L) factants (mg/L)	Res	ult	2	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L	EXTECE EXTECE EXTECE EXTECE EXTECE Hach Te To be sent to Lab or CHEM	I EC500 I EC500 I EC500 I EC500 I EC500 I EC500 st Strips st Strips ets Detergents Kit K-9400
Tempei Specific Sal Ch Am Surt E.co	Parameter rature (degrees F) pH : Conductivity (uS) linity (ppm S) hlorine (ppm) monia (mg/L) factants (mg/L) oli (cfu/100mL)	Res	ult	2	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/10mL	EXTECH EXTECH EXTECH EXTECH EXTECH Hach Te Hach Te To be sent to Lab or CHEM To be sec	I EC500 I EC500 I EC500 I EC500 I EC500 St Strips st Strips tt Strips tt Detergents Kit K-9400 It to lab
Tempei Specific Sal Ch Am Surl E.co	Parameter rature (degrees F) pH c Conductivity (uS) linity (ppm S) hoborine (ppm) monia (mg/L) factants (mg/L) joi (cfu/100mL) occus (cfu/100mL)	Res	ult	2	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L	EXTECH EXTECH EXTECH EXTECH EXTECH Hach Te Hach Te To be sent to Lab or CHEM To be se	I EC500 I EC500 I EC500 I EC500 I EC500 I EC500 St Strips St Strips ets Detergents Kit K-9400 at to lab
Tempei Specific Sal Ch Am Surl E.co	Parameter rature (degrees F) pH c Conductivity (uS) linity (ppm S) hoborine (ppm) monia (mg/L) factants (mg/L) joi (cfu/100mL) occus (cfu/100mL)	Res	ult	2	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/10mL	EXTECH EXTECH EXTECH EXTECH EXTECH Hach Te Hach Te To be sent to Lab or CHEM To be se	I EC500 I EC500 I EC500 I EC500 I EC500 I EC500 I Strips
Tempei Specific Sal Ch Am Surl E.co	Parameter rature (degrees F) pH : Conductivity (uS) linity (ppm S) hlorine (ppm) monia (mg/L) factants (mg/L) oli (cfu/100mL)	Res	ult	2	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/10mL	EXTECH EXTECH EXTECH EXTECH EXTECH Hach Te Hach Te To be sent to Lab or CHEM To be sec	I EC500 I EC500 I EC500 I EC500 I EC500 I EC500 St Strips St Strips ets Detergents Kit K-9400 at to lab
Temper Specific Sal Ch Am Suri E.co Enteroc	Parameter rature (degrees F) pH : Conductivity (uS) linity (ppm S) hoborine (ppm) amonia (mg/L) factants (mg/L) joi (cfu/100mL) soccus (cfu/100mL) sphorus (mg/L)		ult	2	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/10mL	EXTECH EXTECH EXTECH EXTECH EXTECH Hach Te Hach Te To be sent to Lab or CHEM To be se	I EC500 I EC500 I EC500 I EC500 I EC500 I EC500 St Strips St Strips ets Detergents Kit K-9400 at to lab
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Haverhill IDDE Inspection Form Drain Manhole

SECTION 1. DAG	CKGROUND DATA										
	H-702					OUTFALL ID	- UNK1767				
	020-06-23 8:42:00					OCTINEE ID	J. J				
Temperature: °F 69						Inspector(s):	James Conte Jesse Middlet	ton Samuel Mari	nez Zebulan Day Ju	ustin Mazzotta	
Street Name/Structure	re Location:	SHERWOOD DR									
Previous Precipit	tation Date/End Time:	2020-06-11 12:45	5:00	<u>e</u>	Amount (inches):	0.2		6			
SECTION 2: OUT Location	TLET PIPE ASSET DES DMH Interior Con		l	Material		l	Shape	Diamete	er/Dimension (in.)	Subme	rand
DMH Outlet Pipe	Good	idition	Reinforced				Circle	Diamete	15	In Water: No	rgeu
										With Sediment: No	
SECTION 3A: INI	LET PIPE NO. 1 ASSET	T DESCRIPTIO	ON								
Location	Upstream Asset ID	N Reinforced	Material	Clock Postion (Out			Shape	1	Diameter/Dimension	(in.) Subme	rged No
Inlet Pipe No. 1	CB-1074	Concrete	TORG	8:06	9		Circle		12	With Sediment:	No
SECTION 3A: INI	LET PIPE NO. 1 PHYSI Indicate		ioks	Inc	dicator Present?			In	dicator Description		
	Asset Dam				None						
	Deposits/St				Flow Line None						
	Pool Qual Pipe Algae/G				None						
*Do phys	sical indicators suggest an ill		resent (Y/N):		No						
	Is Inlet Pipe No.1				No					Estimated GPM:	
SECTION 3A: INI	LET PIPE NO. 1 PHYS	ICAL INDICAT	TORS (ALL FLOWI	NG ASSETS)							
	ndicator		Indicator Present (Yes/	(No)			Description			Severity	
	Odor										
	Color urbidity										
Floatables (Does			-				-			-	
	es Not Include Trash)	LING/TESTING	G RESULTS (ALL F	LOWING ASSETS)			-			-	
SECTION 3A: INI	es Not Include Trash) LET PIPE NO. 1 SAMP	PLING/TESTING	G RESULTS (ALL F	LOWING ASSETS)							
SECTION 3A: INI Sample	es Not Include Trash)	PLING/TESTING	G RESULTS (ALL FI			Typi	cal EPA Benchmarks		Eq		
SECTION 3A: INI Sample Par	es Not Include Trash) LET PIPE NO. 1 SAMP e Date/Time:	PLING/TESTING	•			Турі	cal EPA Benchmarks		Hanna portable	quipment e PH and Temp meter	
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SECTION 3A: INI Sample Pat Temperate Specific Cc Salini Chlor Ammo Surfact E.coli (Enteroace Phosph SECTION 3B: INI Location Inlet Pipe No. 2 SECTION 3B: INI In Color SECTION 3B: INI In Color SECTION 3B: INI In Color Temperate Specific Co Salini Chlor Ammo Surfact E.coli (Enteroace Phosph SECTION 3B: INI In Color Temperate Specific Color Ammo Surfact E.coli (es Not Include Trash) LET PIPE NO. I SAMP e Date/Time: trameter ture (degrees F) pH onductivity (uS) tity (ppm S) vrine (ppm) onia (mg/L) ctants (mg/L) ctants (mg/L) ctants (mg/L) ctants (mg/L) trans (mg/L) LET PIPE NO. 2 ASSET Upstream Asset ID C8-1076 LET PIPE NO. 2 PHYSI Indicator Asset Dam Deposits St Pool Qual Fipe Algae/G sical indicators suggest an ill Is Inlet Pipe No. 2 LET PIPE NO. 2 PHYSI dicator Odor Color urbidity trans (mg/L) LET PIPE NO. 2 SAMP e Date/Time: transeter ture (degrees F) pH onductivity (uS) tity (ppm S) vrine (ppm) onia (mg/L) ctants (mg/L) ctants (mg/L) ctants (mg/L) ctants (mg/L) ctants (mg/L)	F DESCRIPTIO N Reinforced Concrete ICAL INDICAT or nage tains lity Growth licit discharge is pr 2 Flowing? ICAL INDICAT	PON Material FORS FORS (ALL FLOWE) Indicator Present (Yes)	Clock Postion (Out 11:0 Int NG ASSETS) No)	dicator Present? Cracking Flow Line None None No	Турі	≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 3.25 cfu/100mL Shape Circle Description	In	Hanna portable Hanna portable To be sent to la To be sent to la EXTI Hach poc To b To be T	quipment e PH and Temp meter e PH and Temp meter e PH and Temp meter b And Temp meter b ECS00 ECH ECS00 ECH ECS00 e sent to lab laman Instruments H196769 e sent to lab e sent to lab in.Water. With Sediment Estimated GPM: Severity Severity Estimated GPM: ECH ECS00 ECH ECS00 ECH ECS00 ECH ECS00 I Test Strips I Test Str	rged No No
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SECTION 2C.	INI ET DIDE NO 2 ACCE	T DESCRIPTION								
Location	Upstream Asset ID	Material	Clock Postion (Outle	et Pipe at 6:00)		Shape		Diameter/Dimension (in.)	Sub	omerged
Inlet Pipe No. 3	DMH-774	Reinforced	12:00			Circle		12	In Water:	No
	INLET PIPE NO. 3 PHYS	Concrete							With Sediment:	No
SECTION 3C:	Indicate Ind		Ind	icator Present?			Ĭı	ndicator Description		
	Asset Da	mage		None				······		
	Deposits/S Pool Qu			Flow Line None						
	Pipe Algae/			None						
*Do p		llicit discharge is present (Y/N):		No						
SECTION 2C.	Is Inlet Pipe No. 2 PHYS	3 Flowing? SICAL INDICATORS (ALL FLOWI	NC ASSETS)	Yes			Trickle	Esti	imated GPM:	0.8
SECTION 3C:	Indicator	Indicator Present (Yes			,	Description			Severity	
	Odor	No	,							
	Color Turbidity	No -							Clear	
Floatables ((Does Not Include Trash)	No							-	
SECTION 3C:	INLET PIPE NO. 3 SAM	PLING/TESTING RESULTS (ALL F	LOWING ASSETS)							
	mple Date/Time:	2020-06-23 8:57:00								
	Parameter erature (degrees F)	Re: 7			Туріс	al EPA Benchmarks		Equip EXTECH		
	pН	7.	. 4					EXTECH	I EC500	
	ic Conductivity (uS) alinity (ppm S)	46						EXTECH		
	Chlorine (ppm)				2	Reporting Limit		Hach Tes		
An	mmonia (mg/L)	0.				≥ 0.5 mg/L		Hach Tes	st Strips	
	rfactants (mg/L)	9				≥ 0.25 mg/L	1	To be sent to Lab or CHEM		K-9400
	coli (cfu/100mL) ococcus (cfu/100mL)	>24				235 cfu/100mL 61 cfu/100mL		To be ser		
	osphorus (mg/L)							To be ser		
SECTION 2D	INLET PIPE NO. 4 ASSE	T DESCRIPTION								
Location	Upstream Asset ID	T DESCRIPTION Material	Clock Postion (Outle	et Pipe at 6:00)		Shape		Diameter/Dimension (in.)	Sub	omerged
Inlet Pipe No. 4	CB-1574	Reinforced	3:00			Circle		12	In Water:	No
		Concrete	3.00			CITCLE		12	With Sediment:	No
SECTION 3D:	INLET PIPE NO. 4 PHYS		1							
	Indica Asset Da		Ind	icator Present? Chipping			h	ndicator Description		
	Deposits/S	Stains		Flow Line						
	Pool Qu Pipe Algae/			None None						
*Do p		llicit discharge is present (Y/N):		No						
on or	Is Inlet Pipe No		10.00	Yes			Trickle	Esti	imated GPM:	0.3
SECTION 3D:	INLET PIPE NO. 4 PHYS Indicator	SICAL INDICATORS (ALL FLOWI Indicator Present (Yes								
	indicator	Indicator Present (Yes			1	N			Cte	
	Odor	No	1110)		1	Description			Severity	
	Color	No	110))					
Floatables (Color Turbidity	No -	Avoj		1	Description -			Severity	
	Color Turbidity (Does Not Include Trash)	No			1					
SECTION 3D: San	Color Turbidity (Does Not Include Trash) INLET PIPE NO. 4 SAMi mple Date/Time:	No - No - No - No No No No No No No No PLING/TESTING RESULTS (ALL F 2020-06-23 9:37:00	LOWING ASSETS)			-				
SECTION 3D: San	Color Turbidity (Does Not Include Trash) INLET PIPE NO. 4 SAM mple Date/Time: Parameter	No No PLING/TESTING RESULTS (ALL F 2020-06-23 9:37:00 Re	LOWING ASSETS)					Equip EVTECE	Clear - ment	
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SECTION 3D: San Tempe Specific Sa CI An Sur Enteror Pho SECTION 3E: I Location Inlet Pipe No. 5 SECTION 3E: I	Color Turbidity (Does Not Include Trash) INLET PIPE NO. 4 SAM mple Date/Time: Parameter rerature (degrees F) pH ic Conductivity (uS) alinity (ppm S) Zhorine (ppm) mmonia (mg/L) roll (refu/100mL) coscus (rfu/100mL) coscus (rfu/100mL) coscus (rfu/100mL) iNLET PIPE NO. 5 ASSE Upstream Asset ID CB-1073 INLET PIPE NO. 5 PHYS Indicat Asset Da Deposits? Pool Qu Pipe Algach physical indicators suggest an i Is lnet Pipe NO. INLET PIPE NO. 5 PHYS Indicator Odor Color Turbidity (Does Not Include Trash) INLET PIPE NO. 5 SAMI mple Date/Time:	No No No No PLING/TESTING RESULTS (ALL F 2020-06-23 9:37:00 Re 7 7 65 3-3 66 67 74 T DESCRIPTION Material Reinforced Concrete SICAL INDICATORS for mage stains ality Growth licit discharge is present (Y/N): 5 Flowing? ICAL INDICATORS (ALL FLOWE) Indicator Present (Yes	LOWING ASSETS) sult 1 3 96 40 111 95 9 .3 Clock Postion (Outle 5:00) Ind NG ASSETS) (No)	icator Present? None Flow Line None None	Typic	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L 235 cfu/100mL Shape Circle		EXTECH EXTECH EXTECH EXTECH Hach Tes Hach Tes To be sent to Lab or CHEM To be ser	Clear Best Clear Clea	omerged No
SECTION 3D: San Tempe Specific San Cl An Sur Enteror Pho SECTION 3E: I Location Inlet Pipe No. 5 SECTION 3E: I SEC	Color Turbidity (Does Not Include Trash) INLET PIPE NO. 4 SAM imple Date/Time: Parameter errature (degrees F) pH ic Conductivity (uS) alinity (ppm S) Chlorine (ppm) immonia (mg/L) coli (cfu/100mL) coccus (cfu/100mL) cosphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID CB-1073 INLET PIPE NO. 5 PHYS Indicat Asset Da Deposits/S Pool Qu Pipe Algach physical indicators suggest an is Inlet Pipe No. 1 Inlet INLET PIPE NO. 5 PHYS Indicator INLET PIPE NO. 5 PHYS Indicator Is Inlet Pipe No. 5 Inlet INLET PIPE NO. 5 PHYS Indicator Odor Color Turbidity (Does Not Include Trash) INLET PIPE NO. 5 SAMI imple Date/Time: Parameter ereature (degrees F) pH ic Conductivity (uS)	No No No No PLING/TESTING RESULTS (ALL F 2020-06-23 9:37:00 Re 7 7 65 3-3 66 67 74 T DESCRIPTION Material Reinforced Concrete SICAL INDICATORS for mage stains ality Growth licit discharge is present (Y/N): 5 Flowing? ICAL INDICATORS (ALL FLOWE) Indicator Present (Yes	LOWING ASSETS) sult 1 3 96 40 111 95 9 .3 Clock Postion (Outle 5:00) Ind NG ASSETS) (No)	icator Present? None Flow Line None None	Typic	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L 235 cfu/100mL Shape Circle		EXTECH EXTECH EXTECH EXTECH EXTECH Hach Tes Hach Tes To be sent to Lab or CHEM To be sent To be sen	Clear ment IECS00	omerged No
SECTION 3D: Sam Tempe Specific Sa CI An Sur E.ce Enteror Pho SECTION 3E: Location Inlet Pipe No. 5 SECTION 3E: *Do p SECTION 3E: Floatables (I SECTION 3E: Sam Tempe Specific Sa	Color Turbidity (Does Not Include Trash) INLET PIPE NO. 4 SAM imple Date/Time: Parameter reretature (degrees F) pH ic Conductivity (uS) alinity (ppm S) Zhlorine (ppm) immonia (mg/L) rfactants (mg/L) coli (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) coccus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID CB-1073 INLET PIPE NO. 5 PHYS Indicator Odor Pipe Algac physical indicators suggest an io Is Inlet Pipe NO. 5 PHYS Indicator Odor Color Turbidity (Does Not Include Trash) INLET PIPE NO. 5 SAM imple Date/Time: Parameter reretature (degrees F) pH ic Conductivity (uS) alinity (ppm S)	No No No No PLING/TESTING RESULTS (ALL F 2020-06-23 9:37:00 Re 7 7 65 3-3 66 67 74 T DESCRIPTION Material Reinforced Concrete SICAL INDICATORS for mage stains ality Growth licit discharge is present (Y/N): 5 Flowing? ICAL INDICATORS (ALL FLOWE) Indicator Present (Yes	LOWING ASSETS) sult 1 3 96 40 111 95 9 .3 Clock Postion (Outle 5:00) Ind NG ASSETS) (No)	icator Present? None Flow Line None None	Typic Typic	al EPA Benchmarks Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 0.6 cfu/100mL Shape Circle Oescription		EXTECH EXTECH EXTECH EXTECH EXTECH Hach Te Hach Te To be sent to Lab or CHEM To be sent To be sen To be sent T	Clear Clear CRACK STATE OF THE STATE OF TH	omerged No
SECTION 3D: San Tempe Specific Sa CI An Sur E.c. Enteror Pho SECTION 3E: Location Inlet Pipe No. 5 SECTION 3E: *Do p SECTION 3E: Floatables (I) SECTION 3E: San Tempe Specific Sac CI	Color Turbidity (Does Not Include Trash) INLET PIPE NO. 4 SAM imple Date/Time: Parameter errature (degrees F) pH ic Conductivity (uS) alinity (ppm S) Chlorine (ppm) immonia (mg/L) coli (cfu/100mL) coccus (cfu/100mL) cosphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID CB-1073 INLET PIPE NO. 5 PHYS Indicat Asset Da Deposits/S Pool Qu Pipe Algach physical indicators suggest an is Inlet Pipe No. 1 Inlet INLET PIPE NO. 5 PHYS Indicator INLET PIPE NO. 5 PHYS Indicator Is Inlet Pipe No. 5 Inlet INLET PIPE NO. 5 PHYS Indicator Odor Color Turbidity (Does Not Include Trash) INLET PIPE NO. 5 SAMI imple Date/Time: Parameter ereature (degrees F) pH ic Conductivity (uS)	No No No No PLING/TESTING RESULTS (ALL F 2020-06-23 9:37:00 Re 7 7 65 3-3 66 67 74 T DESCRIPTION Material Reinforced Concrete SICAL INDICATORS for mage stains ality Growth licit discharge is present (Y/N): 5 Flowing? ICAL INDICATORS (ALL FLOWE) Indicator Present (Yes	LOWING ASSETS) sult 1 3 96 40 111 95 9 .3 Clock Postion (Outle 5:00) Ind NG ASSETS) (No)	icator Present? None Flow Line None None	Typic Typic	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L 235 cfu/100mL Shape Circle		EXTECH EXTECH EXTECH EXTECH EXTECH Hach Tes Hach Tes To be sent to Lab or CHEM To be sent To be sen	Clear Benefit ECS00	omerged No
SECTION 3D: Sam Tempe Specific Sa CI An Sur E.ce Enteror Pho SECTION 3E: Location Inlet Pipe No. 5 SECTION 3E: SECTION 3E: Floatables (I SECTION 3E: Sam Tempe Specific Sa CI An Sur	Color Turbidity (Does Not Include Trash) INLET PIPE NO. 4 SAM imple Date/Time: Parameter restaure (degrees F) pH ic Conductivity (uS) alinity (ppm S) Talorine (ppm) immonia (mg/L) rfactants (mg/L) coli (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) coccus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID CB-1873 INLET PIPE NO. 5 PHYS Indicat Asset Da Deposits/ Pool Qu Pipe Algae/ physical indicators suggest an interfield in the properties of the properties	No No No No PLING/TESTING RESULTS (ALL F 2020-06-23 9:37:00 Re 7 7 65 3-3 66 67 74 T DESCRIPTION Material Reinforced Concrete SICAL INDICATORS for mage stains ality Growth licit discharge is present (Y/N): 5 Flowing? ICAL INDICATORS (ALL FLOWE) Indicator Present (Yes	LOWING ASSETS) sult 1 3 96 40 111 95 9 .3 Clock Postion (Outle 5:00) Ind NG ASSETS) (No)	icator Present? None Flow Line None None	Typic	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L Shape Circle Circle Description Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L	In	EXTECE EXTECE EXTECE EXTECE EXTECE EXTECE Hach Tes To be sent to Lab or CHEM Extece EXTECE EXTECE EXTECE Hach Tes To be sent to Lab or CHEM To be sent to Lab or CHEM EXTECE Hach Tes To be sent to Lab or CHEM	Clear Benefit Clear Clea	omerged No No
SECTION 3D: Sam Tempe Specific Sa CI An Sur E.c. Enteror Pho SECTION 3E: Location Inlet Pipe No. 5 SECTION 3E: *Do p SECTION 3E: Floatables (I) SECTION 3E: Sam Tempe Specific San CI An Sur	Color Turbidity (Does Not Include Trash) INLET PIPE NO. 4 SAM mple Date/Time: Parameter restaure (degrees F) pH ic Conductivity (uS) alinity (ppm S) Chlorine (ppm) mmonia (mg/L) coli (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) iNLET PIPE NO. 5 ASSE Upstream Asset ID CB-1073 INLET PIPE NO. 5 PHYS Indicate Asset Da Deposits/ Fool Qu Pipe Algach physical indicators suggest an i Is Intel PIPE NO. 5 PHYS Indicator Odor Color Turbidity (Does Not Include Trash) INLET PIPE NO. 5 SAMI mple Date/Time: Parameter ereature (degrees F) pH ic Conductivity (uS) alinity (ppm S) Chlorine (ppm) mmonia (mg/L)	No No No No PLING/TESTING RESULTS (ALL F 2020-06-23 9:37:00 Re 7 7 65 3-3 66 67 74 T DESCRIPTION Material Reinforced Concrete SICAL INDICATORS for mage stains ality Growth licit discharge is present (Y/N): 5 Flowing? ICAL INDICATORS (ALL FLOWE) Indicator Present (Yes	LOWING ASSETS) sult 1 3 96 40 111 95 9 .3 Clock Postion (Outle 5:00) Ind NG ASSETS) (No)	icator Present? None Flow Line None None	Typic 2	Reporting Limit 2.0.5 mg/L 2.0.25 mg/L 2.235 cfu/100mL 61 cfu/100mL Shape Circle Description Reporting Limit 2.0.5 mg/L	In	EXTECH EXTECH EXTECH EXTECH EXTECH Hach Te Hach Te To be sent to Lab or CHEM To be sent To be sen To be sent T	Clear Benefit EC500 EC5	omerged No No

Pho	sphorus (mg/L)							To be se	nt to lab	
SECTION 3F: 1	INLET PIPE NO. 6 ASSE	T DESCRIPTION								
Location	Upstream Asset ID	Material	Clock Postion (Outle	et Pipe at 6:00)		Shape		Diameter/Dimension (in.	.) Sı	ubmerged
Inlet Pipe No. 6									In Water:	
Tillet I ipe No. 0									With Sediment:	
SECTION 3F: 1	INLET PIPE NO. 6 PHYS	ICAL INDICATORS								
	Indicat	ior	Ind	licator Present?			I	ndicator Description		
	Asset Dar									
	Deposits/S									
	Pool Qua									
	Pipe Algae/									
*Do p		llicit discharge is present (Y/N):								
	Is Inlet Pipe No.	.6 Flowing?						Est	imated GPM:	
SECTION 3F: 1	INLET PIPE NO. 6 PHYS	SICAL INDICATORS (ALL FLOWIN	NG ASSETS)							
	Indicator	Indicator Present (Yes/	No)		I	Description			Severity	
	Odor									
	Color									
	Turbidity	-				-				
Floatables (l	Does Not Include Trash)								-	
SECTION 3F: 1	INLET PIPE NO. 6 SAMI	PLING/TESTING RESULTS (ALL FI	LOWING ASSETS)							
San	nple Date/Time:									
	Parameter	Res	ult		Typica	al EPA Benchmarks		Equip	oment	
Tempe	erature (degrees F)							EXTEC	H EC500	
	pН							EXTEC	H EC500	
	c Conductivity (uS)								H EC500	
Sa	ilinity (ppm S)								H EC500	
C	hlorine (ppm)				≥	Reporting Limit		Hach Te	st Strips	
An	nmonia (mg/L)					≥ 0.5 mg/L		Hach Te	st Strips	
Sur	factants (mg/L)					≥ 0.25 mg/L		To be sent to Lab or CHEM	1ets Detergents Ki	t K-9400
E.co	oli (cfu/100mL)				>	235 cfu/100mL		To be se	nt to lab	
Enteroc	coccus (cfu/100mL)				>	61 cfu/100mL		To be se	nt to lab	
Pho	osphorus (mg/L)							To be se	nt to lab	
Comments :										
Signature of Inspector :	JC JM	~ 6 M								

Haverhill IDDE Inspection Form Drain Manhole

CECTION 1. D	ACKGROUND DATA										
ASSET ID:	DMH-703					OUTFALL ID	UNK1767				
Date/Time:	2020-06-23 8:23:00										
Temperature: °F	65					Inspector(s):	James Conte Jesse Middlet	on Samuel Marine	ez Zebulan Day J	ustin Mazzotta	
Street Name/Struc		SHERWOOD DR									
Previous Prec	cipitation Date/End Time:	2828-96-11 12:4	15:00		Amount (inches):	0.2					
	OUTLET PIPE ASSET DES										
Location	DMH Interior Cor	ndition		Material			Shape	Diameter/	/Dimension (in.)		omerged
DMH Outlet Pipe	Good		Reinforced	Concrete			Circle		18	In Water: No. 1	No No
SECTION 3A:	INLET PIPE NO. 1 ASSE	T DESCRIPTIO	ON								
Location	Upstream Asset ID	N	Material	Clock Postion (Outl	et Pipe at 6:00)		Shape	Di	iameter/Dimension	(in.) Sub	omerged
Inlet Pipe No. 1	CB-1078	Reinforced		7:00			Circle		12	In Water:	No
-		Concrete	TODG	1.50						With Sediment:	No
SECTION 3A:	INLET PIPE NO. 1 PHYS		TORS								
	Indicate Asset Don			Ind	None			Indi	icator Description		
	Asset Dan Deposits/S				Flow Line						
	Pool Qua				None						
	Pipe Algae/C				None	-		-	-		-
*Do p	physical indicators suggest an il		resent (Y/N):		No No					Estimated GPM:	
SECTION 24.	Is Inlet Pipe No. INLET PIPE NO. 1 PHYS		TODE (ALL FLOWE	NC ACCETO)	NO					Estimated GPM:	
SECTION 3A:	Indicator	ICAL INDICA	Indicator Present (Yes/		1		Diti			Consulter	
	Odor		indicator Present (Yes/	140)			Description			Severity	
	Color										
	Turbidity		-				-				
	Does Not Include Trash)									-	
SECTION 3A:	INLET PIPE NO. 1 SAME	LING/TESTIN	G RESULTS (ALL FI	LOWING ASSETS)							
San	nple Date/Time:										
	Parameter		Res	sult		Турі	cal EPA Benchmarks			quipment	
	erature (degrees F)		Res	sult		Турі	cal EPA Benchmarks		Hanna portabl	le PH and Temp meter	
Тетре	erature (degrees F) pH		Res	sult		Турі	cal EPA Benchmarks		Hanna portabl Hanna portabl	le PH and Temp meter le PH and Temp meter	
Tempe	erature (degrees F) pH ic Conductivity (uS)		Res	sult		Турі	cal EPA Benchmarks		Hanna portabl Hanna portabl To be sent to la	le PH and Temp meter	
Tempe Specific Sa	erature (degrees F) pH		Res	sult			cal EPA Benchmarks ≥ Reporting Limit		Hanna portabl Hanna portabl To be sent to la EXT	le PH and Temp meter le PH and Temp meter ab or EXTECH EC500	
Tempe Specific Sa	erature (degrees F) pH ic Conductivity (uS) alinity (ppm S)		Res	sult					Hanna portabl Hanna portabl To be sent to la EXT Hach po	le PH and Temp meter le PH and Temp meter ab or EXTECH EC500 TECH EC500	
Tempe Specific Sa C	erature (degrees F) pH ic Conductivity (uS) alinity (ppm S) hlorine (ppm)		Res	vult			≥ Reporting Limit	To	Hanna portabl Hanna portabl To be sent to la EXT Hach por	le PH and Temp meter le PH and Temp meter ab or EXTECH EC500 TECH EC500 cket Colorimeter	5769C
Tempo Specific Sa C An	erature (degrees F) pH ic Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L)		Res	sult			≥ Reporting Limit ≥ 0.5 mg/L	Te	Hanna portabl Hanna portabl To be sent to la EXT Hach po To b to be sent to Lab or F	le PH and Temp meter le PH and Temp meter ab or EXTECH ECS00 TECH ECS00 cket Colorimeter be sent to lab Hanna Instruments HI96 be sent to lab	5769C
Specific Sa C An Sur E.c.	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) chlorine (ppm) mmonia (mg/L) rfactants (mg/L) oli (cfu/100mL) coccus (cfu/100mL)		Res	sult			≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L	To	Hanna portabl Hanna portabl To be sent to k EXT Hach poo To b to be sent to Lab or F To b To b	le PH and Temp meter le PH and Temp meter ab or EXTECH EC500 TECH EC500 cteCH COlorimeter be sent to lab tranna Instruments H196 be sent to lab be sent to lab	5769C
Specific Sa C An Sur E.c.	erature (degrees F) pH ic Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) coli (cfu/100mL)		Res	sult			≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L > 23.5 efu/100mL	To	Hanna portabl Hanna portabl To be sent to k EXT Hach poo To b to be sent to Lab or F To b To b	le PH and Temp meter le PH and Temp meter ab or EXTECH ECS00 TECH ECS00 cket Colorimeter be sent to lab Hanna Instruments HI96 be sent to lab	5769C
Tempc Specific Sa C An Sur E.c. Entero	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) 'hlorine (ppm) mmonia (mg/L) rfactants (mg/L) roli (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L)	F DESCRIPTION		ult			≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L > 23.5 efu/100mL	Te	Hanna portabl Hanna portabl To be sent to k EXT Hach poo To b to be sent to Lab or F To b To b	le PH and Temp meter le PH and Temp meter ab or EXTECH EC500 TECH EC500 cteCH COlorimeter be sent to lab tranna Instruments H196 be sent to lab be sent to lab	-769C
Specific Salar C Ann Sur E.c. Enteron Pho	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) roli (cfu/100mL) coccus (cfu/100mL) sophorus (mg/L) INLET PIPE NO, 2 ASSE		ON		et Pine at 6:00)		≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL		Hanna portabl Hanna portabl To be sent to la EXT Hach po To b sent to la To b To b To b	le PH and Temp meter le Colorimeter le se sent to lab le sent to lab	
Specific Sate C An Sur Entero Pho SECTION 3B:	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) roli (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO, 2 ASSE' Upstream Asset ID	Reinforced		Clock Postion (Outl			≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL		Hanna portabl Hanna portabl To be sent to la EXT Hach po To be to be sent to Lab or I To be	le PH and Temp meter le Colorimeter le se sent to lab le sent to lab	omerged No
Tempe Specific Sa C An Sur E.e. Enteron Pho SECTION 3B:	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) roli (cfu/100mL) coccus (cfu/100mL) sophorus (mg/L) INLET PIPE NO, 2 ASSE		ON				≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL		Hanna portabl Hanna portabl To be sent to la EXT Hach po To b sent to la To b To b To b	le PH and Temp meter le PH and Temp meter ab or EXTECH EC500 TECH EC500 cket Colorimeter be sent to lab Hanna Instruments H196 be sent to lab be sent to lab ce sent to lab ce sent to lab se sent to lab ce sent to lab	omerged
Tempe Specific Sa C An Sur E.c. Enteroo Pho SECTION 3B: Location Inlet Pipe No. 2	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) roli (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO, 2 ASSE' Upstream Asset ID	Reinforced Concrete	ON Material	Clock Postion (Outl			≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL		Hanna portabl Hanna portabl To be sent to la EXT Hach po To be to be sent to Lab or I To be	le PH and Temp meter ab or EXTECH EC500 TECH EC500 cket Colorimeter se sent to lab de se sent to lab in Water. Sub In Water.	omerged No
Tempe Specific Sa C An Sur E.c. Enteroo Pho SECTION 3B: Location Inlet Pipe No. 2	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) chlorine (ppm) mmonia (mg/L) rfactants (mg/L) off (cfu/100mL) sophorus (mg/L) INLET PIPE NO. 2 ASSE' Upstream Asset ID DMH-702 INLET PIPE NO. 2 PHYS Indicate	Reinforced Concrete ICAL INDICAT	ON Material	Clock Postion (Outl	licator Present?		≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL	Di	Hanna portabl Hanna portabl To be sent to la EXT Hach po To be to be sent to Lab or I To be	le PH and Temp meter ab or EXTECH EC500 TECH EC500 cket Colorimeter se sent to lab de se sent to lab in Water. Sub In Water.	omerged No
Tempe Specific Sa C An Sur E.c. Enteroo Pho SECTION 3B: Location Inlet Pipe No. 2	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) coit (cfu/100mL) osphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID DMH-702 INLET PIPE NO. 2 PHYS Indicat Asset Das	Reinforced Concrete ICAL INDICAT or nage	ON Material	Clock Postion (Outl	licator Present?		≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL	Di	Hanna portabl Hanna portabl To be sent to It EXT Hach po To be to be sent to Lab or I To be To be To be To be To be To be	le PH and Temp meter ab or EXTECH EC500 TECH EC500 cket Colorimeter se sent to lab de se sent to lab in Water. Sub In Water.	omerged No
Tempe Specific Sa C An Sur E.c. Enteroo Pho SECTION 3B: Location Inlet Pipe No. 2	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) roli (cfu/100mL) coccus (cfu/100mL) sophorus (mg/L) INLET PIPE NO. 2 ASSE/ Upstream Asset ID DMH-702 INLET PIPE NO. 2 PHYS Indicat Asset Dan DepositsS	Reinforced Concrete ICAL INDICAT or nage tains	ON Material	Clock Postion (Outl	licator Present? None Flow Line		≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL	Di	Hanna portabl Hanna portabl To be sent to It EXT Hach po To be to be sent to Lab or I To be To be To be To be To be To be	le PH and Temp meter ab or EXTECH EC500 TECH EC500 cket Colorimeter se sent to lab de se sent to lab in Water. Sub In Water.	omerged No
Tempe Specific Sa C An Sur E.c. Enteroo Pho SECTION 3B: Location Inlet Pipe No. 2	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) coit (cfu/100mL) osphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID DMH-702 INLET PIPE NO. 2 PHYS Indicat Asset Das	Reinforced Concrete ICAL INDICATOR or nage tains lity	ON Material	Clock Postion (Outl	licator Present?		≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL	Di	Hanna portabl Hanna portabl To be sent to It EXT Hach po To be to be sent to Lab or I To be To be To be To be To be To be	le PH and Temp meter ab or EXTECH EC500 TECH EC500 cket Colorimeter se sent to lab de se sent to lab in Water.	omerged No
Tempe Specific Sa CC An Sur E.c Enteron Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B:	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) roli (cfu/100mL) coccus (cfu/100mL) sophorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID DMH-702 INLET PIPE NO. 2 PHYS Indicat Asset Dan Deposits/S Pool Qua Pipe Algae(obysical indicators suggest an ii	Reinforced Concrete ICAL INDICAT or nage tains lity Frowth licit discharge is pre	DN Material TORS	Clock Postion (Outl	licator Present? None Flow Line None None None		≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 325 cfu/100mL > 61 cfu/100mL Shape Circle	Di	Hanna portabl Hanna portabl To be sent to It EXT Hach po To be to be sent to Lab or I To be To be To be To be To be To be	le PH and Temp meter le Sent to lab	omerged No No
Specific Sa C C An Sur E.c. Enteron Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B:	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) chlorine (ppm) mmonia (mg/L) rfactants (mg/L) off (cfu/100mL) osphorus (mg/L) INLET PIPE NO. 2 ASSE' Upstream Asset ID DM4-702 INLET PIPE NO. 2 PHYS Indicat Asset Dan Deposits/S Pool Qua Pipe Algae(obysical indicators suggest an ii	Reinforced Concrete ICAL INDICAT or nage tains lity Frowth licit discharge is pr	ON Material TORS	Clock Postion (Outl	licator Present? None Flow Line None None		≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 325 cfu/100mL > 61 cfu/100mL Shape Circle	Di	Hanna portabl Hanna portabl To be sent to It EXT Hach po To be to be sent to Lab or I To be To be To be To be To be To be	le PH and Temp meter ab or EXTECH EC500 TECH EC500 cket Colorimeter se sent to lab de se sent to lab in Water.	omerged No
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Specific Sa C C An Sur E.c. Enteron Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B:	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) obit (cfu/10mL) ococcus (cfu/100mL) osphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID DMH-702 INLET PIPE NO. 2 PHYS Indicator Pipe Algac(C) ohysical indicators suggest an il Is Intel Tipe No. 2 PHYS Indicator	Reinforced Concrete ICAL INDICAT or nage tains lity Frowth licit discharge is pr	ON Material TORS resent (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/	Clock Postion (Outli 10:06 Ind	licator Present? None Flow Line None None None		≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 325 cfu/100mL > 61 cfu/100mL Shape Circle	Di	Hanna portabl Hanna portabl To be sent to It EXT Hach po To be to be sent to Lab or I To be To be To be To be To be To be	le PH and Temp meter le Sent to lab	omerged No No
Specific Sa C C An Sur E.c. Enteron Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B:	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) chlorine (ppm) mmonia (mg/L) rfactants (mg/L) odi (cfu/100mL) osphorus (mg/L) supports (mg/L) INLET PIPE NO, 2 ASSE Upstream Asset ID DMH-702 INLET PIPE NO, 2 PHYS Indicat Asset Dan DeposityS Pool Qua pipe Algae(C ohysical indicators suggest an il Is Inlet Pipe No. INLET PIPE NO, 2 PHYS Indicator Odor	Reinforced Concrete ICAL INDICAT or nage tains lity Frowth licit discharge is pr	ON Material TORS resent (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/	Clock Postion (Outli 10:06 Ind	licator Present? None Flow Line None None None		≥ Reporting Limit	Di	Hanna portabl Hanna portabl To be sent to It EXT Hach po To be to be sent to Lab or I To be To be To be To be To be To be	le PH and Temp meter le Sent to lab le In Mater. With Sediment; With Sediment; Estimated GPM:	omerged No No
Specific Sa C C An Sur E.c. Enteron Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B:	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) obit (cfu/10mL) ococcus (cfu/100mL) osphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID DMH-702 INLET PIPE NO. 2 PHYS Indicator Pipe Algac(C) ohysical indicators suggest an il Is Intel Tipe No. 2 PHYS Indicator	Reinforced Concrete ICAL INDICAT or nage tains lity Frowth licit discharge is pr	ON Material TORS resent (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/	Clock Postion (Outli 10:06 Ind	licator Present? None Flow Line None None None		≥ Reporting Limit	Di	Hanna portabl Hanna portabl To be sent to It EXT Hach po To be to be sent to Lab or I To be To be To be To be To be To be	le PH and Temp meter le Sent to lab le In Mater. With Sediment; With Sediment; Estimated GPM:	omerged No No
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Specification of the state of t	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) coccus (cfu/100mL) coccus (cfu/100mL) sosphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID DMH-702 INLET PIPE NO. 2 PHYS Indicator Asset Dan Deposits/S Pool Qua Pipe Algae/C ohysical indicators suggest an il Is Int Fipe No. 2 PHYS Indicator Color Color Turbidity	Reinforced Concrete ICAL INDICAT or nage tatins lity rowth licit discharge is pr ICAL INDICAT No	ON Material TORS Present (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/ No No .	Clock Postion (Outl 10:06 Ind NG ASSETS)	licator Present? None Flow Line None None None		≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 3.25 cfu/100mL > 61 cfu/100mL Shape Circle Tr Description	Di	Hanna portabl Hanna portabl To be sent to It EXT Hach po To be to be sent to Lab or I To be To be To be To be To be To be	le PH and Temp meter le PH and Temp meter lab or EXTECH ECS00 TECH	omerged No No
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Specific Same Survey Servey Se	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) chlorine (ppm) mmonia (mg/L) rfactants (mg/L) odi (cfu/100mL) osphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID DM1-702 INLET PIPE NO. 2 PHYS Indicate Asset Dan DeposityS Pool Qua Fipe AlgaeC ohysical indicators suggest an il Is Inlet Pipe No. 2 PHYS Indicator Color Turbidity Does Not Include Trash) INLET PIPE NO. 2 PHYS INLET PIPE NO. 2 PHYS INLET PIPE NO. 2 PHYS INLET PIPE NO. 2 PHYS INLET PIPE NO. 2 PHYS INLET PIPE NO. 2 PHYS INLET PIPE NO. 2 PHYS INLET PIPE NO. 2 SAMP mple Date/Time: Parameter	Reinforced Concrete ICAL INDICAT or nage tains lity rowth licit discharge is pr 2 Flowing? ICAL INDICAT No	TORS TORS TORS (ALL FLOWIN Indicator Present (Yes/ No No	Clock Postion (Outl 10:06 Ind NG ASSETS) No)	licator Present? None Flow Line None None None		≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 3.25 cfu/100mL > 61 cfu/100mL Shape Circle Tr Description	Di	Hanna portabl Hanna portabl To be sent to le EXT Hach poo To b to be sent to Lab or I To b	le PH and Temp meter le PH and Temp meter lab or EXTECH ECS00 TECH ECS00 TECH ECS00 Ceck Colorimeter le sent to lab Hanna Instruments H196 le sent to lab le	omerged No No
Tempe Specific Sa C An Sur E.c. Entero Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: *Do p SECTION 3B: Floatables (i SECTION 3B: San	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) chlorine (ppm) mmonia (mg/L) rfactants (mg/L) odi (cfu/100mL) osphorus (mg/L) osphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID DM4-702 INLET PIPE NO. 2 PHYS Indicat Asset Dan Deposits/S Pool Qua Is Inlet Pipe No. INLET PIPE NO. 2 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 2 SAMP mple Date/Time: Parameter erature (degrees F)	Reinforced Concrete ICAL INDICAT or nage tains lity rowth licit discharge is pr 2 Flowing? ICAL INDICAT No	ON Material TORS TORS TORS (ALL FLOWIN Indicator Present (Yes/ No	Clock Postion (Outl 10:06 Ind NG ASSETS) No)	licator Present? None Flow Line None None None		≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L > 235 cfu/100mL Shape Circle Tr Description	Di	Hanna portabl Hanna portabl To be sent to la To be sent to Ir EXT Hach poo To be to be sent to Lab or Ir To be To	le PH and Temp meter le PH and Temp meter lab or EXTECH ECS00 TECH ECS00	omerged No No
Specification of the property	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) coli (cfu/100mL) esphorus (mg/L) interpret (mg/L) inte	Reinforced Concrete ICAL INDICAT or nage tains lity rowth licit discharge is pr 2 Flowing? ICAL INDICAT No	TORS TORS TORS (ALL FLOWIN Indicator Present (Yes/ No No	Clock Postion (Outl 10:06 Ind NG ASSETS) No) LOWING ASSETS)	licator Present? None Flow Line None None None		≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L > 235 cfu/100mL Shape Circle Tr Description	Di	Hanna portabl Hanna portabl To be sent to la To be sent to la EXT Hach po To be to be sent to Lab or I To be	Le PH and Temp meter ab or EXTECH ECS00 Ceket Colorimeter Descent to lab Hanna Instruments H196 Descent to lab	omerged No No
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Section 3B: Section 3B: Ploatables (SECTION 3B: Section 3B: Sectio	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) rfactants (mg/L) coli (cfu/100mL) esphorus (mg/L) interpret (mg/L) inte	Reinforced Concrete ICAL INDICAT or nage tains lity rowth licit discharge is pr 2 Flowing? ICAL INDICAT No	DN Material TORS TORS TORS (ALL FLOWIN Indicator Present (Yes/ No No IG RESULTS (ALL Fl ::00 Res 61 7. 48	Clock Postion (Outl 10:00 Ind Ind Solution (Outl 10:00 Ind Ind Ind Ind Ind Ind Ind I	licator Present? None Flow Line None None None	Турі	≥ Reporting Umit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 325 cfu/100mL Shape Circle Tr Description	Di	Hanna portabl Hanna portabl To be sent to la To be sent to In To be sent to Lab or In To be sent to Lab or In To be sent to I	le PH and Temp meter le PH and Temp meter lab or EXTECH ECSOO CECH ECSOO CECH ECSOO Cech Colorimeter le sent to lab Hanna Instruments H196 le sent to lab le	omerged No No
Section 3B: Floatables (Section 3B: Section 3B: Floatables (Section 3B: Section 3B: Section 3B: Floatables (Section 3B: Section 3B: Floatables (Section 3B: Section 3B: Floatables (Section 3B: Section 3B: Secti	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) chlorine (ppm) mmonia (mg/L) rfactants (mg/L) odi (cfu/100mL) osphorus (mg/L) sphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID DM1-702 INLET PIPE NO. 2 PHYS Indicat Asset Dan DeposityS Pool Qua Pipe Algae(ohysical indicators suggest an il Is Inlet Pipe No. INLET PIPE NO. 2 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 2 SAMP apple Date/Time: Parameter erature (degrees F) pH c Conductivity (uS) alinity (ppm S)	Reinforced Concrete ICAL INDICAT or nage tains lity rowth licit discharge is pr 2 Flowing? ICAL INDICAT No	DN Material TORS TORS (ALL FLOWI) Indicator Present (No No	Clock Postion (Outline) Ind Ind NG ASSETS) NO LOWING ASSETS) ault 8 5 5 77 155	licator Present? None Flow Line None None None	Турі	≥ Reporting Umit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 325 cfu/100mL Shape Circle Tr Description cal EPA Benchmarks	Di	Hanna portabl Hanna portabl To be sent to la To be sent to It EXT Hach poo To be ob e sent to Lab or I To to To be	Le PH and Temp meter ab or EXTECH ECS00 ECH ECS00	omerged No No
Section 3B: Floatables (Section 3B: Section 3B: Section 3B: Floatables (Section 3B: Float	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) chlorine (ppm) mmonia (mg/L) rfactants (mg/L) coli (cfu/100mL) sephorus (mg/L) INLET PIPE NO. 2 ASSE' Upstream Asset ID DMH-702 INLET PIPE NO. 2 PHYS Indicate Asset Dan Deposits/S Pool Qua Pipe Algae(C obsysical indicators uggest an il Is Inlet Pipe NO. 2 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 2 SAMP mple Date/Time: Parameter erature (degrees F) pH c C Onductivity (uS) alinity (ppm S) chlorine (ppm)	Reinforced Concrete ICAL INDICAT or nage tains lity rowth licit discharge is pr 2 Flowing? ICAL INDICAT No	ON Material TORS TORS TORS (ALL FLOWIN Indicator Present (Yes/ No GG RESULTS (ALL FI : : : : : : : : : : : : : : : : : : :	Clock Postion (Outl 10:06 Ind NG ASSETS) No) LOWING ASSETS) sult 8 5 5 77 105 202	licator Present? None Flow Line None None None	Турі	≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 3.25 cfu/100mL > 61 cfu/100mL Shape Circle Tr Description cal EPA Benchmarks ≥ Reporting Limit ≥ Reporting Limit ≥ Reporting Limit	Indi	Hanna portabl Hanna portabl To be sent to la To be sent to In To be sent to In To be	le PH and Temp meter le PH and Temp meter lab or EXTECH ECS00 TECH ECS00 Cekt Colorimeter les sent to lab lanna Instruments HI96 les sent to lab les sent to l	omerged No No No
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Section 3B: Floatables (SECTION 3B: Float	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) mmonia (mg/L) fractants (mg/L) coli (cfu/100mL) expected by the color of t	Reinforced Concrete ICAL INDICAT or nage tains lity rowth licit discharge is pr 2 Flowing? ICAL INDICAT No	DN Material TORS TORS TORS (ALL FLOWI) Indicator Present (Yes/ No No	Clock Postion (Outl 10:06 Ind Ind Ind Ind Ind Ind Ind In	licator Present? None Flow Line None None None	Турі	≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 325 cfu/100mL Shape Circle Tr Description	Indi	Hanna portabl Hanna portabl To be sent to Ia EXT Hach poo To b To	Le PH and Temp meter le PH and Temp meter lab or EXTECH ECS00 ECH ECS00 ECH ECS00 ECH Colorimeter be sent to lab Hanna Instruments H196 be sent to lab be sent to lab la (in.) Sub In Water With Sediment Severity Severity Clear quipment ECH ECS00	omerged No No No
Specific Same Section 3B: Floatables (SECT	erature (degrees F) pH c Conductivity (uS) alinity (ppm S) chlorine (ppm) mmonia (mg/L) rfactants (mg/L) coli (cfu/100mL) poli (cfu/100mL)	Reinforced Concrete ICAL INDICAT or nage tains lity rowth licit discharge is pr 2 Flowing? ICAL INDICAT No	DN Material TORS TORS TORS (ALL FLOWI) Indicator Present (Yes/ No No	Clock Postion (Outl 10:06 Ind Ind Ind Ind Ind Ind Ind In	licator Present? None Flow Line None None None	Турі	≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 3.25 cfu/100mL Shape Circle Tr Description - Reporting Limit ≥ Reporting Limit ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 2.35 cfu/100mL	Indi	Hanna portabl Hanna portabl To be sent to Ia EXT Hach poo To b To	Le PH and Temp meter ab or EXTECH ECS00 FECH ECS00 ECH ECS00 ECH LOS ES sent to lab Hanna Instruments HI96 De sent to lab	omerged No No No

SECTION 2C.	INI ET DIDE NO 2 ACCE	T DESCRIPTION							
Location	Upstream Asset ID	T DESCRIPTION Material	Clock Postion (Outlet	Pipe at 6:00)	Shape		Diameter/Dimension (in.	Subm	erged
Inlet Pipe No. 3	CB-1077	Reinforced	1:00		Circle		12	In Water:	No
		Concrete	1.00		CITCLE		12	With Sediment:	No
SECTION 3C:	INLET PIPE NO. 3 PHYS								
	Indicat Asset Dat		Indica	ator Present? None			Indicator Description		
	Deposits/S			None					
	Pool Qu			None					
*Do n	Pipe Algae/o physical indicators suggest an i	Growth llicit discharge is present (Y/N):		None No					
	Is Inlet Pipe No.			No			Est	imated GPM:	
SECTION 3C:	INLET PIPE NO. 3 PHYS	SICAL INDICATORS (ALL FLOW	ING ASSETS)						
	Indicator	Indicator Present (Ye	s/No)		Description			Severity	
	Odor Color								
	Turbidity	-			-				
Floatables (Does Not Include Trash)							-	
SECTION 3C:	INLET PIPE NO. 3 SAMI	PLING/TESTING RESULTS (ALL I	FLOWING ASSETS)						
San	nple Date/Time:				T : 1FD: D 1 1				
Tempe	Parameter erature (degrees F)	Re	esult		Typical EPA Benchmark	S	Equip EXTECT		
	pH						EXTEC		
	c Conductivity (uS)						EXTEC		
	alinity (ppm S)				≥ Reporting Limit		EXTECI Hach Te		
	Chlorine (ppm) mmonia (mg/L)				≥ Reporting Limit ≥ 0.5 mg/L		Hach Te		
	rfactants (mg/L)				≥ 0.25 mg/L		To be sent to Lab or CHEM		9400
E.c	coli (cfu/100mL)				> 235 cfu/100mL		To be se	nt to lab	
	osphorus (mg/L)				> 61 cfu/100mL		To be se		
rno	oopnorus (mg/L/)						10 be se		
SECTION 3D:	INLET PIPE NO. 4 ASSE	T DESCRIPTION							
Location	Upstream Asset ID	Material	Clock Postion (Outlet	Pipe at 6:00)	Shape		Diameter/Dimension (in.		erged
Inlet Pipe No. 4	CB-1079	Reinforced Concrete	3:00		Circle		12	In Water: With Sediment:	No No
SECTION 3D:	INLET PIPE NO. 4 PHYS	SICAL INDICATORS						with Seament.	110
SECTION SD.	Indicat		Indica	ator Present?			Indicator Description		
	Asset Dar			None					
	Deposits/S			None None					
	Pool Qua Pipe Algae/			None					
*Do p	ohysical indicators suggest an i	llicit discharge is present (Y/N):		No					
	Is Inlet Pipe No.	-		No			Est	imated GPM:	
SECTION 3D:		SICAL INDICATORS (ALL FLOW							
	Indicator Odor	Indicator Present (Ye	s/No)		Description			Severity	
	Color								
	Turbidity	-			-				
	Does Not Include Trash)		TI ONUNIC LOOPING					-	
	nple Date/Time:	PLING/TESTING RESULTS (ALL I	LOWING ASSETS)						
, Juli	Parameter	R	esult		Typical EPA Benchmark	is	Equip	ment	
Тетре	erature (degrees F)						EVTECI	H EC500	
Specific	pH ic Conductivity (uS)								
•	alinity (ppm S)						EXTEC	H EC500	
								H EC500 H EC500	
	Chlorine (ppm)				≥ Reporting Limit		EXTECH EXTECH	H EC500 H EC500 H EC500	
An	Chlorine (ppm) mmonia (mg/L)				≥ 0.5 mg/L		EXTECI EXTECI EXTECI Hach Te Hach Te	H EC500 H EC500 H EC500 st Strips st Strips	
Sur	mmonia (mg/L) rfactants (mg/L)				≥ 0.5 mg/L ≥ 0.25 mg/L		EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM	H EC500 H EC500 H EC500 St Strips St Strips Tets Detergents Kit K-	9400
Sur E.c	mmonia (mg/L) rfactants (mg/L) coli (cfu/100mL)				≥ 0.5 mg/L		EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM To be se	H EC500 H EC500 H EC500 st Strips st Strips lets Detergents Kit K- nt to lab	9400
Sur E.c Entero	mmonia (mg/L) rfactants (mg/L)				≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL		EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM	H EC500 H EC500 H EC500 st Strips st Strips lets Detergents Kit K- nt to lab nt to lab	9400
Sur E.c Entero Pho	mmonia (mg/L) rfactants (mg/L) coli (cfu/100mL) coccus (cfu/100mL) osphorus (mg/L)				≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL		EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM To be se	H EC500 H EC500 H EC500 st Strips st Strips lets Detergents Kit K- nt to lab nt to lab	9400
Sur E.e Entero Pho SECTION 3E:	mmonia (mg/L) rfactants (mg/L) coli (cfu/100mL) coccus (cfu/100mL) sosphorus (mg/L) INLET PIPE NO. 5 ASSE		Clock Partie (Carl	Pina of Collin	≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL		EXTECI EXTECI EXTECI EXTECI Hach Te Hach Te To be sent to Lab or CHEM To be se To be se	H EC500 H EC500 H EC500 St Strips St Strips Lets Detergents Kit K- nt to lab nt to lab nt to lab	
Sur E.c. Entero Pho SECTION 3E: Location	mmonia (mg/L) rfactants (mg/L) coli (cfu/100mL) coccus (cfu/100mL) osphorus (mg/L)	T DESCRIPTION Material	Clock Postion (Outlet	Pipe at 6:00)	≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL		EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM To be se	H EC500 H EC500 H EC500 St Strips St Strips Lets Detergents Kit K- nt to lab nt to lab nt to lab	9400
Sur E.c Entero Pho SECTION 3E: Location	mmonia (mg/L) rfactants (mg/L) coli (cfu/100mL) coccus (cfu/100mL) sosphorus (mg/L) INLET PIPE NO. 5 ASSE		Clock Postion (Outlet	Pipe at 6:00)	≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL		EXTECI EXTECI EXTECI EXTECI Hach Te Hach Te To be sent to Lab or CHEM To be se To be se	H ECS00 H ECS00 H ECS00 St Strips St S	
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Sur E.c Entero Pho SECTION 3E: Location Inlet Pipe No. 5	mmonia (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rocccus (cfu/100mL) coccus (cfu/100mL) sophorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat	Material SICAL INDICATORS tor		Pipe at 6:00)	≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL		EXTECI EXTECI EXTECI EXTECI Hach Te Hach Te To be sent to Lab or CHEM To be se To be se	H ECS00 H ECS00 H ECS00 H ECS00 St Strips St Strips Hest Detergents Kit K- nt to lab In t to lab In Water,	
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Sur E.c Entero Pho SECTION 3E: Location	mmonia (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rocccus (cfu/100mL) rocccus (cfu/100mL) rocccus (cfu/100mL) rocccus (cfu/100mL) rocccus (cfu/100mL) rocccus (mg/L) roccus (m	Material SICAL INDICATORS tor mage Stains			≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL		EXTECI EXTECI EXTECI EXTECI Hach Te Hach Te To be sent to Lab or CHEM To be se To be se To be se	H ECS00 H ECS00 H ECS00 H ECS00 St Strips St Strips Hest Detergents Kit K- nt to lab In t to lab In Water,	
Sur E.c. Enteron Pho SECTION 3E: Location Inlet Pipe No. 5 SECTION 3E:	mmonia (mg/L) rfactants (mg/L) rfactants (mg/L) roli (cfu/100mL) coccus (cfu/100mL) sophorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Da Deposits/S Pool Qu Pipe Algach	Material SICAL INDICATORS tor mage stains dility Growth			≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL		EXTECI EXTECI EXTECI EXTECI Hach Te Hach Te To be sent to Lab or CHEM To be se To be se To be se	H ECS00 H ECS00 H ECS00 H ECS00 St Strips St Strips Hest Detergents Kit K- nt to lab In t to lab In Water,	
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Sur E.c. Enteron Pho SECTION 3E: Location Inlet Pipe No. 5 SECTION 3E: *Do p	mmonia (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Dar Deposit/S Pool Qu Pipe Algae/t ohysical indicators suggest an in Is inlet Pipe No.	Material SICAL INDICATORS tor mage Stains ality Growth Glict discharge is present (Y/N):	Indice		≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL		EXTECI EXTECI EXTECI EXTECI Hach Te Hach Te Hach To To be sent to Lab or CHEM To be se	H ECS00 H ECS00 H ECS00 St Strips St Strips St Strips It Dispersion to lab It to lab It to lab It to lab It was to lab	
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Sur E.c Enteron Pho	mmonia (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rocccus (cfu/100mL) rocccus (cfu/100mL) rocccus (cfu/100mL) rocccus (cfu/100mL) rocccus (mg/L) roccus (mg/L) rocccus (mg/L) roccus (mg/L) rocccus (mg/L) rocccus (mg/L) rocccus (mg/L) rocccus (Material SICAL INDICATORS tor mage Stains ality Growth Bict discharge is present (V/N): .5 Flowing? SICAL INDICATORS (ALL FLOW)	Indica		≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL Shape		EXTECI EXTECI EXTECI EXTECI Hach Te Hach Te Hach To To be sent to Lab or CHEM To be se	H ECS00 H ECS00 H ECS00 St Strips St Strips St Strips St Strips Its Detergents Kit K- nt to lab In to lab In Water; With Sediment:	
Sur E.c. Enteron Pho SECTION 3E: Location Inlet Pipe No. 5 SECTION 3E: *Do p	mmonia (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Dat Deposits's Pool Que Pipe Algaet ohysical indicators suggest an is Is Inlet Pipe No. INLET PIPE NO. 5 PHYS INLET PIPE NO. 5 PHYS INLET PIPE NO. 5 PHYS Indicator	Material SICAL INDICATORS tor mage Stains ality Growth Bict discharge is present (Y/N): .5 Flowing? SICAL INDICATORS (ALL FLOW) Indicator Present (Ye	Indica		≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL Shape		EXTECI EXTECI EXTECI EXTECI Hach Te Hach Te Hach To To be sent to Lab or CHEM To be se	H ECS00 H ECS00 H ECS00 St Strips St Strips St Strips St Strips Its Detergents Kit K- nt to lab In to lab In Water; With Sediment:	
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Sur E.c Enteron Pho SECTION 3E: - Do p - Do p SECTION 3E: - Do p SECTION 3E: - Floatables (SECTION 3E:	mmonia (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rocccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) report (mg/L) INLET PIPE NO. 5 SASE Upstream Asset ID Indicat Asset Dan Deposits's Pool Qu Pipe Algac'l obysical indicators suggest an it Is Inlet Pipe NO. 5 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 5 SAMI mple Date/Time:	Material SICAL INDICATORS tor mage Stains ality Growth Bicti discharge is present (V/N): .5 Flowing? SICAL INDICATORS (ALL FLOW) Indicator Present (Ye	Indication		≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfw100mL > 61 cfw100mL Shape Description		EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM To be se Extra to the se To be se Extra to the se Extra to the se Diameter/Dimension (in.	H ECS00 H ECS00 H ECS00 st Strips st Strips st Strips st Strips nt to lab submin Water. With Sediment:	
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Sur E.c. Enteron Pho SECTION 3E: Location Inlet Pipe No. 5 SECTION 3E: *Do p SECTION 3E: Floatables (t) SECTION 3E: San	mmonia (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rocccus (cfu/100mL) rocccus (cfu/100mL) roccus (cfu/100mL) rocccus (cfu/100mL) rocccus (cfu/100mL) rocccus (mg/L) roccus (mg/L) rocccus (mg/L) rocccu	Material SICAL INDICATORS tor mage Stains ality Growth Bicti discharge is present (V/N): .5 Flowing? SICAL INDICATORS (ALL FLOW) Indicator Present (Ye	Indication		≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfw100mL > 61 cfw100mL Shape Description	S	EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM To be se Extra to the se To be se Extra to the se Extra to the se Diameter/Dimension (in.	H ECS00 H ECS00 H ECS00 SI Strips SI	
Sur E.c. Enteron Pho SECTION 3E: Location Inlet Pipe No. 5 SECTION 3E: *Do p SECTION 3E: SECTION 3E: Floatables (i	mmonia (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Dan Deposits's Pool Qu Pipe Algae(obysical indicators suggest an in Is Inlet Pipe No. 5 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 5 SAMI mple Date/Time: Parameter erature (degrees F) pH H c Conductivity (uS)	Material SICAL INDICATORS tor mage Stains ality Growth Bicti discharge is present (V/N): .5 Flowing? SICAL INDICATORS (ALL FLOW) Indicator Present (Ye	Indication		≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfw100mL > 61 cfw100mL Shape Description	s	EXTECT EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM To be se External Diameter/Dimension (in) External Extern	HECS00 HECS00 HECS00 HECS00 ST Strips ST Strips ST Strips ST Strips HES Detergents Kit K- Int to lab Int to la	
Sur E.c Enteron Pho SECTION 3E: Location Inlet Pipe No. 5 SECTION 3E: *Do p *Do p SECTION 3E: Floatables (i SECTION 3E: San Tempc Specific Sa	mmonia (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rocccus (cfu/100mL) rocccus (cfu/100mL) roccus (cfu/100mL) rocccus (cfu/100mL) rocccus (cfu/100mL) rocccus (mg/L) roccus (mg/L) rocccus (mg/L) rocccu	Material SICAL INDICATORS tor mage Stains ality Growth Bicit discharge is present (V/N): .5 Flowing? SICAL INDICATORS (ALL FLOW) Indicator Present (Ye	Indication		≥ 0.5 mg/L ≥ 0.25 mg/L > 23.5 cfu/100mL > 61 cfu/100mL Shape Description Typical EPA Benchmark	S	EXTECT EX	H ECS00 H ECS00 H ECS00 H ECS00 St Strips St Strips St Strips St Strips It to lab It to lab In Water; With Sediment: Severity Severity Ment H ECS00	
Sur E.c. Sur E.c. Enteron Pho SECTION 3E: Location Inlet Pipe No. 5 SECTION 3E: *Do p SECTION 3E: Floatables (i) SECTION 3E: San Tempa Specific Sa C	mmonia (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rocccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) roccus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Dat Deposity's Pool Qu Pipe Algae/t obysical indicators suggest an i Is Inlet Pipe NO. 5 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 5 SAMI mple Date/Time: Parameter erature (degrees F) pH c Conductivity (uS) alinity (ppm S) chlorine (ppm)	Material SICAL INDICATORS tor mage Stains ality Growth Bicit discharge is present (V/N): .5 Flowing? SICAL INDICATORS (ALL FLOW) Indicator Present (Ye	Indication		≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL Shape Shape Description Typical EPA Benchmark ≥ Reporting Limit	S	EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM To be se Externation Externation Exte	H ECS00 H ECS00 H ECS00 St Strips St Strips St Strips St Strips In to lab In to lab In Water With Sediment: Severity Severity Ment of the CS00 H ECS00 H ECS00 H ECS00 St Strips	
Sur E.c Enteron Pho SECTION 3E: Location Inlet Pipe No. 5 SECTION 3E: *Do p SECTION 3E: Floatables (: SECTION 3E: San Tempe Specific Sa C An	mmonia (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) roccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Da Deposits Pool Qu Pipe Algaech obysical indicators suggest an Is Inlet Pipe No INLET PIPE NO. 5 PHYS Indicator Color Color Turbidity Does Not Include Trash) INLET PIPE NO. 5 SAMI mple Date/Time: Parameter erature (degrees F) pH te Conductivity (uS) alianity (ppm S) Chlorine (ppm) mmonia (mg/L)	Material SICAL INDICATORS tor mage Stains ality Growth Bicit discharge is present (V/N): .5 Flowing? SICAL INDICATORS (ALL FLOW) Indicator Present (Ye	Indication		≥ 0.5 mg/L ≥ 0.25 mg/L > ≥ 35 cfu/100mL > 61 cfu/100mL Shape Description Typical EPA Benchmark ≥ Reporting Limit ≥ 0.5 mg/L	S	EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM To be se Extect E	H ECS00 H ECS00 H ECS00 H ECS00 St Strips St Strips St Strips St Strips It to lab It to lab It to lab It to lab It was to lab In Water With Sediment. Severity Severity Ment H ECS00 H ECS00 H ECS00 H ECS00 St Strips	ierged
Sur E.c. Enteron Pho SECTION 3E: Location Inlet Pipe No. 5 SECTION 3E: *Do p SECTION 3E: Floatables (I) SECTION 3E: San Tempe Specific Sa C C An Sur	mmonia (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) rfactants (mg/L) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Dar Depositys Pool Qu Pipe Algae/t obysical indicators suggest an is Is Inlet Pipe NO. 5 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 5 SAMI mple Date/Time: Parameter erature (degrees F) pH et Conductivity (uS) alinity (ppm S) chorine (ppm) mmonia (mg/L) rfactants (mg/L) oli (cfu/100mL)	Material SICAL INDICATORS tor mage Stains ality Growth Bicit discharge is present (V/N): .5 Flowing? SICAL INDICATORS (ALL FLOW) Indicator Present (Ye	Indication		≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL > 61 cfu/100mL Shape Description	S	EXTECT EXTECT EXTECT EXTECT Hach Te Factor Hach Te To be sent to Lab or CHEM To be se t to Lab or CHEM To be sent t	H ECS00 H ECS00 H ECS00 H ECS00 st Strips st Strips st Strips st Strips nt to lab nt to lab In Water. With Sediment: Severity Severity Severity MECS00 H ECS00 H ECS00 H ECS00 st Strips st Strips st Strips st Strips st Strips st Strips	ierged
Sur E.c. Enteron SE: Enteron SE: Location allet Pipe No. 5 ECTION 3E: **Do p **Do p ECTION 3E: Floatables (i ECTION 3E: San Tempe Specifi Sa C C An Sur E.c. Sur	mmonia (mg/L) rfactants (mg/L)	Material SICAL INDICATORS tor mage Stains ality Growth Bicit discharge is present (V/N): .5 Flowing? SICAL INDICATORS (ALL FLOW) Indicator Present (Ye	Indication		≥ 0.5 mg/L ≥ 0.25 mg/L > 23.5 cfu/100mL > 61 cfu/100mL Shape Shape Description Typical EPA Benchmark ≥ Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L	S	EXTECT EXTECT EXTECT EXTECT Hach Te Hach Te To be sent to Lab or CHEM To be sent to Lab or CHEM Experiment of the control of t	H ECS00 H ECS00 H ECS00 H ECS00 st Strips st Strips st Strips st Strips nt to lab nt to lab In Water. With Sediment: Severity Severity Severity MECS00 H ECS00 H ECS00 H ECS00 st Strips st Strips st Strips st Strips st Strips st Strips	ierged

Pho	sphorus (mg/L)							To be sen	t to lab
SECTION 3F: I	NLET PIPE NO. 6 ASSE	T DESCRIPTION							
Location	Upstream Asset ID	Material	Clock Postion (Outle	et Pipe at 6:00)		Shape		Diameter/Dimension (in.)	Submerged
Inlet Pipe No. 6									In Water: With Sediment:
SECTION 3F: I	NLET PIPE NO. 6 PHYS	ICAL INDICATORS							
	Indicat	or	Ind	icator Present?			I	ndicator Description	
	Asset Dar	nage							
	Deposits/S	itains							
	Pool Qua								
	Pipe Algae/								
*Do pl		llicit discharge is present (Y/N):							
	Is Inlet Pipe No.	6 Flowing?						Estin	mated GPM:
SECTION 3F: I		ICAL INDICATORS (ALL FLOWIN							
	Indicator	Indicator Present (Yes/I	No)		r	Description			Severity
	Odor								
	Color								
	Turbidity	-				-			
	Does Not Include Trash)								-
		PLING/TESTING RESULTS (ALL FL	OWING ASSETS)						
	ple Date/Time:								
	Parameter	Resi	ult		Typica	al EPA Benchmarks		Equipr	
Tempe	rature (degrees F)							EXTECH	
	pH							EXTECH	
	Conductivity (uS)							EXTECH	
	linity (ppm S)							EXTECH	
	hlorine (ppm)				≥	Reporting Limit		Hach Tes	
Am	nmonia (mg/L)					≥ 0.5 mg/L		Hach Tes	•
Suri	factants (mg/L)					≥ 0.25 mg/L	1	To be sent to Lab or CHEMe	ts Detergents Kit K-9400
E.co	oli (cfu/100mL)				>	235 cfu/100mL		To be sen	t to lab
Enteroc	coccus (cfu/100mL)				>	- 61 cfu/100mL		To be sen	t to lab
Pho	sphorus (mg/L)							To be sen	t to lab
Comments :									
Signature of Inspector :	20 J	W 2W							

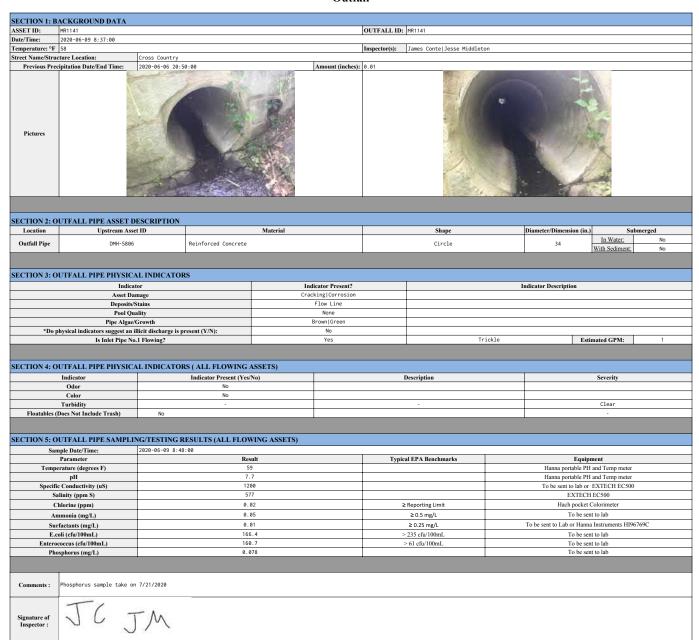
Haverhill IDDE Inspection Form Drain Manhole

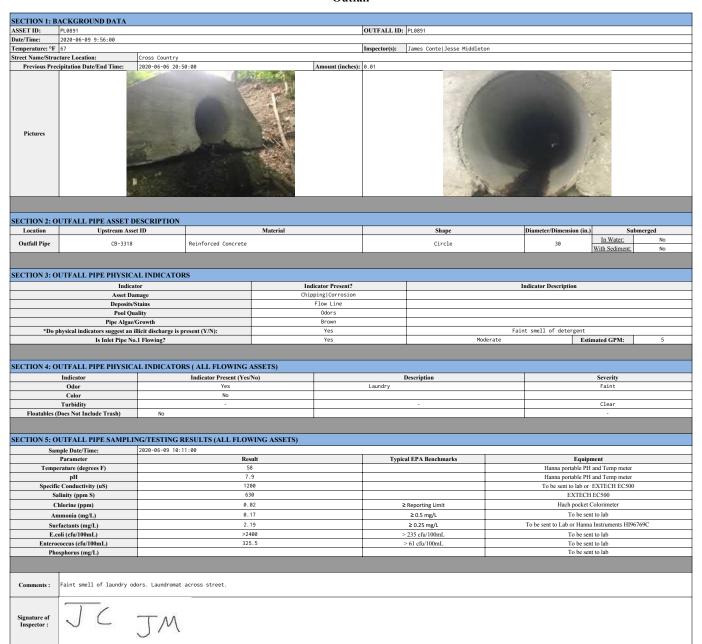
SECTION 1. D	ACKGROUND DATA								
ASSET ID:	DMH-704					OUTFALL ID:	UNK1767		
Date/Time:	2020-06-23 8:03:00								
Temperature: °F		TURAR 07				Inspector(s):	James Conte Jesse Middleto	n Samuel Marinez Zebulan Day Justin Mazzotta	
Street Name/Struc		TUDOR CT 2020-06-23 12:4	15:00		Amount (inches):	0.2			
Pictures	January and Link				The state of the s	0.2			
SECTION 2: O	OUTLET PIPE ASSET DES	SCRIPTION							
Location	DMH Interior Cor			Material			Shape	Diameter/Dimension (in.) Submerged	
DMH Outlet Pipe	Good		Corrugate	ed Metal			Circle	36 In Water: Partially	y
								With Sediment: No	
SECTION 3A:	INLET PIPE NO. 1 ASSE	T DESCRIPTION	ON						
Location	Upstream Asset ID]	Material	Clock Postion (Outl	et Pipe at 6:00)		Shape	Diameter/Dimension (in.) Submerged	
Inlet Pipe No. 1	CB-1081	Reinforced Concrete		10:00			Circle	In Water: N	No
-	INLET PIPE NO. 1 PHYS		TORS					With Sediment: N	No
SECTION 3A:	INLET PIPE NO. 1 PHYS Indicate		IORS	Ind	licator Present?			Indicator Description	
	Asset Dan			Ind	Chipping			mucator Description	
	Deposits/S	tains			Flow Line				
	Pool Qua				None None				
*Do n	Pipe Algae/C physical indicators suggest an il		resent (Y/N):		None				
	Is Inlet Pipe No.		(2,7.)		No			Estimated GPM:	
SECTION 3A:	INLET PIPE NO. 1 PHYS	ICAL INDICA	TORS (ALL FLOWI	NG ASSETS)					
	Indicator		Indicator Present (Yes/	No)			Description	Severity	
	Odor								
	Color Turbidity								
Floatables (I	Does Not Include Trash)							-	
SECTION 3A:	INLET PIPE NO. 1 SAME	LING/TESTIN	G RESULTS (ALL FI	LOWING ASSETS)					
San	nple Date/Time:								
	Parameter		Res	sult		Typi	cal EPA Benchmarks	Equipment	
								**	
Tempe	erature (degrees F)							Hanna portable PH and Temp meter	
	рН							Hanna portable PH and Temp meter Hanna portable PH and Temp meter To be sent to lab or EXTECH EC500	
Specific								Hanna portable PH and Temp meter To be sent to lab or EXTECH EC500 EXTECH EC500	
Specific Sa Cl	pH c Conductivity (uS) alinity (ppm S) (hlorine (ppm)						≥ Reporting Limit	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter	
Specific Sa Cl	pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) nmonia (mg/L)						≥ 0.5 mg/L	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab	
Specific Sa Cl An Sur	pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) nmonia (mg/L) rfactants (mg/L)						≥ 0.5 mg/L ≥ 0.25 mg/L	Hanna portable PH and Temp meter To be sent to lab or EXTECH EC500 EXTECH EC500 Hach pocket Colorimeter To be sent to lab To be sent to Lab or Hanna Instruments H196769C	
Specific Sa Cl An Sur E.ce	pH c Conductivity (uS) allinity (ppm S) hlorine (ppm) nmonia (mg/L) rfactants (mg/L) oli (cfu/100mL)						≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab	
Specific Sa Cl An Sur E.ce	pH c Conductivity (uS) alinity (ppm S) hlorine (ppm) nmonia (mg/L) rfactants (mg/L)						≥ 0.5 mg/L ≥ 0.25 mg/L	Hanna portable PH and Temp meter To be sent to lab or EXTECH EC500 EXTECH EC500 Hach pocket Colorimeter To be sent to lab To be sent to Lab or Hanna Instruments H196769C	
Specific Sa Cl An Sur E.ce Enteroc	pH c c Conductivity (uS) alfairity (ppm S) hlorine (ppm) mmonia (mg/L) fractants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L)						≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab To be sent to Lab or Hanna Instruments H196769C To be sent to lab To be sent to lab	
Specific Sa Cl An Sur E.c. Enteroc Pho	pH c c Conductivity (uS) alfairity (ppm S) hlorine (ppm) mmonia (mg/L) dil (efu/100mL) coccus (cfu/100mL) sephorus (mg/L) INLET PIPE NO. 2 ASSE						≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL. > 61 cfu/100mL	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab	
Specific Saa CI An Sur E.c. Enteroo Pho SECTION 3B: Location	pH c Conductivity (uS) alfairity (ppm S) hlorine (ppm) mmonia (mg/L) featenths (mg/L) oil (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) iNLET PIPE NO. 2 ASSE Upstream Asset ID]	ON Material	Clock Postion (Out			≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 235 cfu/100mL > 61 cfu/100mL	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab	ially
Specific Sa Cl An Sur E.c. Enteroc Pho	pH c c Conductivity (uS) alfairity (ppm S) hlorine (ppm) mmonia (mg/L) dil (efu/100mL) coccus (cfu/100mL) sephorus (mg/L) INLET PIPE NO. 2 ASSE			Clock Postion (Out)			≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL. > 61 cfu/100mL	Hanna portable PH and Temp meter To be sent to lab or EXTECH EC500 EXTECH EC500 Hach pocket Colorimeter To be sent to lab	ially No
Specific Sa CI An Sur E.c. Enteror Pho SECTION 3B: Location Inlet Pipe No. 2	pH c Conductivity (uS) alfairity (ppm S) hlorine (ppm) mmonia (mg/L) featenths (mg/L) oil (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) iNLET PIPE NO. 2 ASSE Upstream Asset ID	Corrugated Metal	Material				≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 235 cfu/100mL > 61 cfu/100mL	Hanna portable PH and Temp meter To be sent to lab or EXTECH EC500 EXTECH EC500 Hach pocket Colorimeter To be sent to lab	
Specific Sa CI An Sur E.c. Enteror Pho SECTION 3B: Location Inlet Pipe No. 2	pH c Conductivity (uS) lilaity (ppm S) filorine (ppm) mmonia (mg/L) -factants (mg/L) oid (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) incomplete (mg/L) indicate incomple	Corrugated Metal ICAL INDICA	Material	12:00	licator Present?		≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 235 cfu/100mL > 61 cfu/100mL	Hanna portable PH and Temp meter To be sent to lab or EXTECH EC500 EXTECH EC500 Hach pocket Colorimeter To be sent to lab	
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Specific Sa CI An Sur E.c. Enteror Pho SECTION 3B: Location Inlet Pipe No. 2	pH c Conductivity (uS) lilaity (ppm S) filorine (ppm) mmonia (mg/L) -factants (mg/L) oid (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) incomplete (mg/L) indicate incomple	Corrugated Metal ICAL INDICA or mage tains	Material	12:00	licator Present?		≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 235 cfu/100mL > 61 cfu/100mL	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab	
Specific Sa CI An Sur E.c. Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B:	pH c c Conductivity (uS) alfairity (ppm S) blorine (ppm) mmonia (mg/L) di (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO, 2 ASSE Upstream Asset ID Open ended pipe INLET PIPE NO, 2 PHYS Indicate Asset Dan Deposits/S Pool Qua	Corrugated Metal ICAL INDICA' or nage tains lity Growth	Material TORS	12:00	licator Present? None Flow Line None None		≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 235 cfu/100mL > 61 cfu/100mL	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab	
Specific Sa CI An Sur E.c. Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B:	pH c c Conductivity (uS) alfairity (ppm S) hlorine (ppm) mmonia (mg/L) oli (efu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) synhorus (mg/L) INLET PIPE NO. 2 ASSE' Upstream Asset ID Open ended pipe INLET PIPE NO. 2 PHYS Indicat Asset Dan DeposityS Pool Qua Pipe Algae'C obysical indicators suggest an il	Corrugated Metal ICAL INDICA' or nage tains lity Frowth licit discharge is p	Material TORS	12:00	licator Present? None Flow Line None None None		≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 235 cfu/100mL > 61 cfu/100mL	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab In Water. With Sediment: h Indicator Description	
Specific Sa CI An Sur E.c. Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: 1	pH c Conductivity (uS) lilating (ppm S) filorine (ppm) mmonia (mg/L) ficatants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID Open ended pipe INLET PIPE NO. 2 PHYS Indicat Asset Dan DepositsS Pool Qua Pipe Algae(C ohysical indicators suggest an il Is Inlet Pipe No.	Corrugated Metal ICAL INDICA' or nage tains liity irowth licit discharge is p 2 Flowing?	TORS Second (Y/N):	12:00	licator Present? None Flow Line None None		≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 235 cfu/100mL > 61 cfu/100mL	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab	
Specific Sa CI An Sur E.c. Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: 1	pH c c Conductivity (uS) alfairly (ppm S) hlorine (ppm) mmonia (mg/L) fractants (mg/L) oil (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 2 ASSE' Upstream Asset ID Open ended pipe INLET PIPE NO. 2 PHYS Indicate Asset Dan Depositus Pipe Algae/C ohysical indicators suggest an il Is latel Pipe No. INLET PIPE NO. 2 PHYS	Corrugated Metal ICAL INDICA' or nage tains liity irowth licit discharge is p 2 Flowing?	TORS resent (Y/N): TORS (ALL FLOWIN	Ind Ind NG ASSETS)	licator Present? None Flow Line None None None		≥ 0.5 mg/L ≥ 0.25 mg/L > 2.35 mg/L > 235 cfu/100mL > 6i cfu/100mL Shape Circle	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab	
Specific Sa CI An Sur E.c. Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: 1	pH c Collectivity (uS) alfairity (ppm S) hlorine (ppm) mmonia (mg/L) oli (efu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) synhorus (mg/L) INLET PIPE NO. 2 ASSE' Upstream Asset ID Open ended pipe INLET PIPE NO. 2 PHYS Indicat Asset Dan DeposityS Pool Qua Pipe Algae'C ohysical indicators suggest an il Is Inlet Pipe No. INLET PIPE NO. 2 PHYS Indicator Odor	Corrugated Metal ICAL INDICA' or nage tains liity irowth licit discharge is p 2 Flowing?	TORS Second (Y/N):	Ind Ind NG ASSETS)	licator Present? None Flow Line None None None		≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 235 cfu/100mL > 61 cfu/100mL	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab To be sent to lab In Water. With Sediment: h Indicator Description	
Specific Sa CI An Sur E.c. Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: 1	pH c c Conductivity (uS) alfairity (ppm S) blorine (ppm) mmonia (mg/L) fractants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID Open ended pipe INLET PIPE NO. 2 PHYS Indicator Obysical indicators suggest an il Is latel Pipe NO. INLET PIPE NO. 2 PHYS Indicator Oddor Color	Corrugated Metal ICAL INDICA' or nage tains liity irowth licit discharge is p 2 Flowing?	TORS resent (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/	Ind Ind NG ASSETS)	licator Present? None Flow Line None None None		≥ 0.5 mg/L ≥ 0.25 mg/L > 2.35 mg/L > 235 cfu/100mL > 61 cfu/100mL Shape Circle Description	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab	
Specific San Cl Ann Sur Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: 4Do p SECTION 3B: 1	pH c c Conductivity (uS) alfairity (ppm S) hlorine (ppm) mmonia (mg/L) di (efu/100mL) coccus (efu/100mL) coccus (efu/100mL) syphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID Open ended pipe INLET PIPE NO. 2 PHYS Indicato Asset Dan Deposits/S Pool Qua Pipe Algae(C hysical indicators suggest an il Is Inlet Pipe No. 2 PHYS Indicator Odor Color Turbidity	Corrugated Metal ICAL INDICA' or nage tains liity irowth licit discharge is p 2 Flowing?	TORS resent (Y/N): TORS (ALL FLOWIN	Ind Ind NG ASSETS)	licator Present? None Flow Line None None None		≥ 0.5 mg/L ≥ 0.25 mg/L > 2.35 mg/L > 235 cfu/100mL > 6i cfu/100mL Shape Circle	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab	
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Specific Sa CI An Sur E.c. Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: *Do p SECTION 3B: Floatables (SECTION 3B: SECTION 3B: SECTION 3B:	pH c c Conductivity (uS) alfairity (ppm S) blorine (ppm) mmonia (mg/L) dicfactants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO, 2 ASSE Upstream Asset ID Open ended pipe INLET PIPE NO, 2 PHYS Indicator Asset Dan Deposits/S Pool Qua Pipe Algacé ohysical indicators suggest an il Is Inlet Pipe No, INLET PIPE NO, 2 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO, 2 SAMP uple Date/Time:	Corrugated Metal ICAL INDICA' or nage tains lity rowth licit discharge is p 2 Flowing? ICAL INDICA'	TORS resent (V/N): TORS (ALL FLOWI) Indicator Present (Yes/	Ind Ind NG ASSETS) No)	licator Present? None Flow Line None None None		≥ 0.5 mg/L ≥ 0.25 mg/L > 2.35 mg/L > 235 cfu/100mL > 61 cfu/100mL Shape Circle Description	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab	
Specific San Cl Ann Sur Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: San San	pH c c Conductivity (uS) alfairity (ppm S) blorine (ppm) mmonia (mg/L) di (efu/100mL) coccus (efu/100mL) coccus (efu/100mL) syphorus (mg/L) INLET PIPE NO, 2 ASSE Upstream Asset ID Open ended pipe INLET PIPE NO, 2 PHYS Indicat Asset Dan Deposits/S Pool Qua Pipe Algae(c) shysical indicators suggest an if Is Inlet Pipe No. INLET PIPE NO, 2 PHYS Indicators for the pipe Algae(c) shysical indicators suggest an if Is Inlet Pipe No. INLET PIPE NO, 2 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO, 2 SAMP inple Date/Time: Parameter	Corrugated Metal ICAL INDICA' or nage tains lity rowth licit discharge is p 2 Flowing? ICAL INDICA'	TORS resent (V/N): TORS (ALL FLOWI) Indicator Present (Yes/	Ind Ind NG ASSETS) No)	licator Present? None Flow Line None None None		≥ 0.5 mg/L ≥ 0.25 mg/L > 2.35 mg/L > 235 cfu/100mL > 61 cfu/100mL Shape Circle Description	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab Estimated GPM: Severity Equipment	
Specific San Cl Ann Sur Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: San San	pH c c Conductivity (uS) alfairly (ppm S) hlorine (ppm) nmonia (mg/L) factants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID Open ended pipe INLET PIPE NO. 2 PHYS Indicat Asset Dan Depositus Pipe Algae(obysical indicators suggest an It Is Inlet PIPE NO. 2 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 2 SAMP pile Date/Time: Parameter	Corrugated Metal ICAL INDICA' or nage tains lity rowth licit discharge is p 2 Flowing? ICAL INDICA'	TORS resent (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/	Ind Ind NG ASSETS) No)	licator Present? None Flow Line None None None		≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 2135 cfu/100mL > 61 cfu/100mL Shape Circle Description	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab To be sent to l	
Specific Sa CI An Sur E.c. Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: *Do p SECTION 3B: Floatables (I SECTION 3B: San San	pH c c Conductivity (uS) alfairity (ppm S) blorine (ppm) mmonia (mg/L) dicfactants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO, 2 ASSE Upstream Asset ID Open ended pipe INLET PIPE NO, 2 PHYS Indicator Asset Dan Deposits/S Pool Qua Pipe Algace (bhysical indicators suggest an il Is Inlet Pipe No, INLET PIPE NO, 2 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO, 2 SAMP apile Date/Time: Parameter errature (degrees F) pH	Corrugated Metal ICAL INDICA' or nage tains lity rowth licit discharge is p 2 Flowing? ICAL INDICA'	TORS resent (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/	Ind Ind NG ASSETS) No)	licator Present? None Flow Line None None None		≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 2135 cfu/100mL > 61 cfu/100mL Shape Circle Description	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab To be sent to	
Specific Saccolor Saccolor Saccolor Section 3B: Location Inlet Pipe No. 2 SECTION 3B: *Do p SECTION 3B: Floatables (I SECTION 3B: Saccolor Tempe	pH c c Conductivity (uS) alfairly (ppm S) hlorine (ppm) nmonia (mg/L) factants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID Open ended pipe INLET PIPE NO. 2 PHYS Indicat Asset Dan Depositus Pipe Algae(obysical indicators suggest an It Is Inlet PIPE NO. 2 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 2 SAMP pile Date/Time: Parameter	Corrugated Metal ICAL INDICA' or nage tains lity rowth licit discharge is p 2 Flowing? ICAL INDICA'	TORS resent (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/	Ind Ind NG ASSETS) No)	licator Present? None Flow Line None None None	Турі	≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 2135 cfu/100mL > 61 cfu/100mL Shape Circle Description	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab To be sent to l	
Specific Sa Sa CI An Sur Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: Sec	pH c c Conductivity (uS) librity (ppm S) hlorine (ppm) mmonia (mg/L) dictarts (mg/L) oli (cfu/100mL) occcus (cfu/100mL) occcus (cfu/100mL) oxphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset 1D Open ended pipe INLET PIPE NO. 2 PHYS Indicat Asset Dan Deposits/S Pool Qua Pipe Algae(C obsysical indicators suggest an il Is lnet Pipe No. INLET PIPE NO. 2 PHYS Indicators suggest an il Is lnet Pipe No. INLET PIPE NO. 2 PHYS Indicators suggest an il Is lnet Pipe No. INLET PIPE NO. 2 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 2 SAMP upple Date/Time: Parameter Parameter Cerature (degrees F) pH Ic c Conductivity (uS)	Corrugated Metal ICAL INDICA' or nage tains lity rowth licit discharge is p 2 Flowing? ICAL INDICA'	TORS resent (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/	Ind Ind NG ASSETS) No)	licator Present? None Flow Line None None None	Турі	≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 0.35 cfm/100mL > 61 cfm/100mL Shape Circle Description	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab To be sent to	
Specific Saccion Sar Cl An Sur E.c. Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: *Do p SECTION 3B: Floatables (I SECTION 3B: San Tempe Specific Sa Cl An	pH c c Conductivity (uS) alfairity (ppm S) blorine (ppm) mmonia (mg/L) dicfav(nym) dicfav(Corrugated Metal ICAL INDICA' or nage tains lity rowth licit discharge is p 2 Flowing? ICAL INDICA'	TORS resent (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/	Ind Ind NG ASSETS) No)	licator Present? None Flow Line None None None	Турі	≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 2.35 cfu/100mL > 61 cfu/100mL Shape Circle Description	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab To be sent to l	
Specific San Sur Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: Location SECTION 3B: Location Treppe SecTION 3B: Location SecTION 3B: Locatio	pH c c Conductivity (uS) alfairity (ppm S) blorine (ppm) mmonia (mg/L) dictarlst (mg/L) NILET PIPE NO. 2 ASSE Upstream Asset ID Open ended pipe INLET PIPE NO. 2 PHYS Indicata Asset Dan Deposits/S Pool Qua Pipe Algaect obspical indicators suggest an il Is Inlet Pipe No. INLET PIPE NO. 2 PHYS Indicator Color Turbidity Does Not Include Trash) INLET PIPE NO. 2 SAMP inple Date/Time: Parameter erature (degrees F) pH c Conductivity (uS) alfaity (ppm S) hlorine (ppm) mnonia (mg/L) f-factants (mg/L)	Corrugated Metal ICAL INDICA' or nage tains lity rowth licit discharge is p 2 Flowing? ICAL INDICA'	TORS resent (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/	Ind Ind NG ASSETS) No)	licator Present? None Flow Line None None None	Турі	≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 3.55 cfu/100mL ≥ 61 cfu/100mL Shape Circle Description	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab To CHEMets Detergents Kit K-9400	
Specific Sa Sa CI An Sur E.c. Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: SECTION 3B: *Do p SECTION 3B: Floatables (0 SECTION 3B: San Tempe Specific Sa CI An Sur	pH c c Conductivity (uS) alfairity (ppm S) hlorine (ppm) mmonia (mg/L) factants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID Open ended pipe INLET PIPE NO. 2 PHYS Indicator Asset Dan Deposits/S Pool Qua Pipe Algae/C ohysical indicators suggest an il Is late Pipe No. INLET PIPE NO. 2 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 2 SAMP mple Date/Time: Parameter resture (degrees F) pH c C onductivity (uS) hlorine (ppm) mmonia (mg/L) -freatents (mg/L) oli (cfu/100mL)	Corrugated Metal ICAL INDICA' or nage tains lity rowth licit discharge is p 2 Flowing? ICAL INDICA'	TORS resent (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/	Ind Ind NG ASSETS) No)	licator Present? None Flow Line None None None	Турі	≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL Shape Circle Description Description Example Selection of the se	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab Severity Equipment EXTECH ECS00 EXTECH ECS00 EXTECH ECS00 Hach Test Strips Hach Test Strips To be sent to lab To be sent to lab	
Specific Sac CC CE Enteroc CE Enteroc CC CE Enteroc CC CE Enteroc CC CE Enteroc CC Enteroc CC Enteroc CC Enteroc CC Enteroc CC CC Enteroc CC CC Enteroc CC CC Enteroc CC CC Enteroc CC CC Enteroc CC Enteroc CC CC Enteroc CC E	pH c c Conductivity (uS) alfairity (ppm S) blorine (ppm) mmonia (mg/L) dicfav(100mL) coccus (cfav(100mL)	Corrugated Metal ICAL INDICA' or nage tains lity rowth licit discharge is p 2 Flowing? ICAL INDICA'	TORS resent (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/	Ind Ind NG ASSETS) No)	licator Present? None Flow Line None None None	Турі	≥ 0.5 mg/L ≥ 0.25 mg/L ≥ 0.25 mg/L ≥ 3.55 cfu/100mL ≥ 61 cfu/100mL Shape Circle Description	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab	
Specific Saccion Saccion Sur Enteror Pho SECTION 3B: Location Inlet Pipe No. 2 SECTION 3B: *Do p SECTION 3B: Floatables (I SECTION 3B: Floatables (I SECTION 3B: CECTION 3B: Seccion Sur	pH c c Conductivity (uS) alfairity (ppm S) hlorine (ppm) mmonia (mg/L) factants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 2 ASSE Upstream Asset ID Open ended pipe INLET PIPE NO. 2 PHYS Indicator Asset Dan Deposits/S Pool Qua Pipe Algae/C ohysical indicators suggest an il Is late Pipe No. INLET PIPE NO. 2 PHYS Indicator Odor Color Turbidity Does Not Include Trash) INLET PIPE NO. 2 SAMP mple Date/Time: Parameter resture (degrees F) pH c C onductivity (uS) hlorine (ppm) mmonia (mg/L) -freatents (mg/L) oli (cfu/100mL)	Corrugated Metal ICAL INDICA' or nage tains lity rowth licit discharge is p 2 Flowing? ICAL INDICA'	TORS resent (Y/N): TORS (ALL FLOWIN Indicator Present (Yes/	Ind Ind NG ASSETS) No)	licator Present? None Flow Line None None None	Турі	≥ 0.5 mg/L ≥ 0.25 mg/L > 235 cfu/100mL Shape Circle Description Description Example Selection of the se	Hanna portable PH and Temp meter To be sent to lab or EXTECH ECS00 EXTECH ECS00 Hach pocket Colorimeter To be sent to lab Severity Equipment EXTECH ECS00 EXTECH ECS00 EXTECH ECS00 Hach Test Strips Hach Test Strips To be sent to lab To be sent to lab	

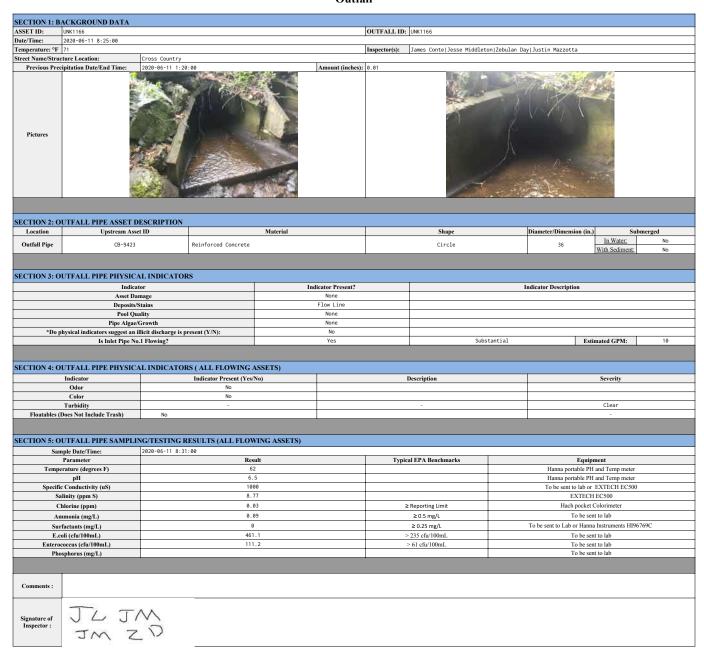
INECTION 3C+ I	INLET PIPE NO. 3 ASSE									
Location	Upstream Asset ID	Material	Clock Postion (Outl	et Pipe at 6:00)		Shape		Diameter/Dimension (in.)	Sub	merged
Inlet Pipe No. 3	DNH-703	Reinforced Concrete	3:00			Circle		18	In Water: With Sediment:	No No
SECTION 3C: I	INLET PIPE NO. 3 PHYS								with Sediment.	NO
	Indicat		Ind	licator Present?			I	ndicator Description		
	Asset Dar Deposits/S			None Flow Line						
	Pool Qua			None						
	Pipe Algae/0	Growth		None						
*Do pl	hysical indicators suggest an il Is Inlet Pipe No.	licit discharge is present (Y/N): 3 Flowing?		No Yes			Trickle	Esti	mated GPM:	0.5
SECTION 3C: I		ICAL INDICATORS (ALL FLOWI	NG ASSETS)							
	Indicator	Indicator Present (Yes/	No)		D	escription			Severity	
	Odor Color	No No								
	Turbidity	-				-			Clear	
	Does Not Include Trash)	No							-	
		LING/TESTING RESULTS (ALL FI	LOWING ASSETS)							
	pple Date/Time: Parameter	2020-06-23 8:10:00 Res	sult		Typica	l EPA Benchmarks		Equip	nent	
Tempe	erature (degrees F)	66						EXTECH		
Specific	pH c Conductivity (uS)	7.						EXTECH EXTECH		
	linity (ppm S)	24	10					EXTECH	EC500	
	hlorine (ppm)	0.6			≥	Reporting Limit		Hach Tes		
	nmonia (mg/L) factants (mg/L)	0.0				≥ 0.5 mg/L ≥ 0.25 mg/L	-	Hach Tes To be sent to Lab or CHEM		K-9400
E.co	oli (cfu/100mL)	>24			>	235 cfu/100mL		To be sen	t to lab	
	coccus (cfu/100mL) sphorus (mg/L)				>	61 cfu/100mL		To be sen		
1 1105	opnorus (mg/12)							10 de sen	100	
	INLET PIPE NO. 4 ASSE									
Location	Upstream Asset ID	Material	Clock Postion (Outl	et Pipe at 6:00)		Shape		Diameter/Dimension (in.)	Sub In Water:	merged
Inlet Pipe No. 4									With Sediment:	
SECTION 3D: I	INLET PIPE NO. 4 PHYS	ICAL INDICATORS								
	Indicat		Ind	licator Present?			I	ndicator Description		
	Asset Dar Deposits/S									
	Pool Qua									
*Do pl	Pipe Algae/O hysical indicators suggest an il	Frowth licit discharge is present (Y/N):								
	Is Inlet Pipe No.							Esti	mated GPM:	
SECTION 3D: I		ICAL INDICATORS (ALL FLOWI)								
	Indicator Odor	Indicator Present (Yes/	No)		D	escription			Severity	
	Color									
	Turbidity	-				-				
	Does Not Include Trash) INLET PIPE NO. 4 SAMI	LING/TESTING RESULTS (ALL FI	LOWING ASSETS)						-	
SECTION 3D: I		PLING/TESTING RESULTS (ALL FI	LOWING ASSETS)						-	
SECTION 3D: I Sam	INLET PIPE NO. 4 SAME pple Date/Time: Parameter	PLING/TESTING RESULTS (ALL FI			Typica	I EPA Benchmarks		Equip		
SECTION 3D: I Sam	INLET PIPE NO. 4 SAME				Typica	I EPA Benchmarks		Equip EXTECH EXTECH	EC500	
SECTION 3D: 1 Sam Temper	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter erature (degrees F) pH e Conductivity (uS)				Typica	I EPA Benchmarks		EXTECH EXTECH EXTECH	EC500 EC500 EC500	
SECTION 3D: 1 Sam Temper Specific Sal	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter rrature (degrees F) pH C Onductivity (uS) llinity (ppm S)							EXTECH EXTECH EXTECH EXTECH	EC500 EC500 EC500 EC500	
SECTION 3D: I Sam Temper Specific Sal Ch	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter erature (degrees F) pH e Conductivity (uS)					I EPA Benchmarks Reporting Limit ≥ 0.5 mg/L		EXTECH EXTECH EXTECH	EC500 EC500 EC500 EC500 t Strips	
SECTION 3D: 1 Sam Temper Specific Sal Ch Am	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter reture (degrees F) pH e Conductivity (uS) linity (ppm S) hlorine (ppm) umonia (mg/L) factants (mg/L)				>	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L		EXTECH EXTECH EXTECH EXTECH EXTECH Hach Tes Hach Tes	EC500 EC500 EC500 EC500 t Strips t Strips ets Detergents Kit l	K-9400
SECTION 3D: 1 Sam Temper Specific Sai Ch Am Surt	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter rature (degrees F) pH c conductivity (uS) limity (ppm S) hlorine (ppm) mmonia (mg/L) factants (mg/L) oli (cfu/100mL)				>	Reporting Limit ≥ 0.5 mg/L		EXTECH EXTECH EXTECH EXTECH EXTECH Hach Tes Hach Tes	EC500 EC500 EC500 EC500 t Strips t Strips ets Detergents Kit l	K-9400
SECTION 3D: I Sam Tempel Specific Sal Cl Am Surl E.c.a	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter reture (degrees F) pH e Conductivity (uS) linity (ppm S) hlorine (ppm) umonia (mg/L) factants (mg/L)				>	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL		EXTECH EXTECH EXTECH EXTECH EXTECH Hach Tes Hach Tes To be sent to Lab or CHEM To be sen	EC500 EC500 EC500 EC500 t Strips t Strips tt Detergents Kit I t to lab t to lab	K-9400
SECTION 3D: I Sam Temper Specific Sal Ch Am Surl E.co Enteroc	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter rature (degrees F) pH c conductivity (uS) limity (ppm S) hlorine (ppm) mmonia (mg/L) factants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L)	Res			>	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL		EXTECH EXTECH EXTECH EXTECH Hach Tes Hach Tes To be sent to Lab or CHEM To be sen	EC500 EC500 EC500 EC500 t Strips t Strips tt Detergents Kit I t to lab t to lab	K-9400
SECTION 3D: I Sam Tempes Specific Sal Ch Am Surri E.co Enteroc Phos	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter rature (degrees F) pH c Conductivity (uS) limity (ppm S) hlorine (ppm) mmonia (mg/L) dic(ful/100mL) coccus (cful/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE	Res T DESCRIPTION	bult	ct Pipe at 6:00)	>	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL 61 cfu/100mL		EXTECH EXTECH EXTECH EXTECH Hach Tes Hach To be sent to Lab or CHEM To be sen To be sen	EC500 EC500 EC500 EC500 EC500 t Strips t Strips ts Detergents Kit I t to lab t t to lab	
SECTION 3D: I Sam Tempei Specific Sal Ch Am Surl E.co Enteroc	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter rature (degrees F) pH c conductivity (uS) limity (ppm S) hlorine (ppm) mmonia (mg/L) factants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L)	Res		ct Pipe at 6:00)	>	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL		EXTECH EXTECH EXTECH EXTECH Hach Tes Hach Tes To be sent to Lab or CHEM To be sen	EC500 EC500 EC500 EC500 EC500 t Strips t Strips ts Trips t to lab t to lab t to lab	K-9400
SECTION 3D: I Sam Tempes Specific Sal Ch Am Surti E.co Enteroc Phos SECTION 3E: I Location Inlet Pipe No. 5	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter rature (degrees F) pH c conductivity (uS) limity (ppm S) hlorine (ppm) mmonia (mg/L) factants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID	Res F DESCRIPTION Material	bult	et Pipe at 6:00)	>	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL 61 cfu/100mL		EXTECH EXTECH EXTECH EXTECH Hach Tes Hach To be sent to Lab or CHEM To be sen To be sen	EC500 EC500 EC500 EC500 EC500 t Strips t Strips ets Detergents Kit I t to lab t to lab Sub	
SECTION 3D: I Sam Tempes Specific Sal Ch Am Surti E.co Enteroc Phos SECTION 3E: I Location Inlet Pipe No. 5	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter rature (degrees F) pH c Conductivity (uS) limity (ppm S) hlorine (ppm) umonia (mg/L) datcants (mg/L) oli (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID	F DESCRIPTION Material ICAL INDICATORS	Clock Postion (Outl		>	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL 61 cfu/100mL		EXTECH EXTECH EXTECH EXTECH Hach Tes Hach To Hach To be sen To be sen To be sen To be sen	EC500 EC500 EC500 EC500 EC500 t Strips t Strips ts Trips t to lab t to lab t to lab	
SECTION 3D: I Sam Tempes Specific Sal Ch Am Surti E.co Enteroc Phos SECTION 3E: I Location Inlet Pipe No. 5	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter rarature (degrees F) pH c conductivity (uS) ilinity (ppm S) hlorine (ppm) mmonia (mg/L) factants (mg/L) oli (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PIPS INLET PIPE NO. 5 PIPS INLET Asset Date Asset Date Asset Date Asset Date Indicat Asset Date	T DESCRIPTION Material ICAL INDICATORS or nage	Clock Postion (Outl	et Pipe at 6:00)	>	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL 61 cfu/100mL		EXTECH EXTECH EXTECH EXTECH Hach Tes Hach To be sent to Lab or CHEM To be sen To be sen	EC500 EC500 EC500 EC500 EC500 t Strips t Strips ts Trips t to lab t to lab t to lab	
SECTION 3D: I Sam Tempes Specific Sal Ch Am Surti E.co Enteroc Phos SECTION 3E: I Location Inlet Pipe No. 5	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter rature (degrees F) pH c Conductivity (uS) limity (ppm S) hlorine (ppm) mmonia (mg/L) di (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Dat DepositsS	F DESCRIPTION Material ICAL INDICATORS or nage tains	Clock Postion (Outl		>	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL 61 cfu/100mL		EXTECH EXTECH EXTECH EXTECH Hach Tes Hach To Hach To be sen To be sen To be sen To be sen	EC500 EC500 EC500 EC500 EC500 t Strips t Strips ts Trips t to lab t to lab t to lab	
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SECTION 3D: I Sam Tempes Specific Sal Ch Am Surt E.co Enteroc Phos SECTION 3E: I Location Inlet Pipe No. 5	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter rature (degrees F) pH c Conductivity (uS) limity (ppm) mmonia (mg/L) dictarts (mg/L) di (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Dar DepositsS Pool Qua Pipe Algae'C hysical indicators suggest an il	F DESCRIPTION Material ICAL INDICATORS or naage tatins lity Growth licit discharge is present (Y/N);	Clock Postion (Outl		>	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL 61 cfu/100mL		EXTECH EXTECH EXTECH EXTECH Hach Tes Hach Tes To be sent to Lab or CHEM. To be sen	ECS00 ECS00 ECS00 ECS00 ECS00 ECS00 t Strips t Strips t to lab t to lab t to lab t to lab With Sediment;	
SECTION 3D: I Sam Temper Specific Sal Ch Am Surti E.co Enteroc Phos SECTION 3E: I Location Inlet Pipe No. 5 SECTION 3E: I	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter rature (degrees F) pH C Conductivity (uS) illuity (ppm S) hlorine (ppm) mmonia (mg/L) factants (mg/L) factants (mg/L) factants (mg/L) illuity (ppm No. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Dar DeposityS Pool Qua Pipe Algae(hysical indicators suggest an illuitators ruggest Is Inlet Pipe No.	F DESCRIPTION Material ICAL INDICATORS or naage tatins lity Growth licit discharge is present (Y/N);	Clock Postion (Outl		>	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL 61 cfu/100mL		EXTECH EXTECH EXTECH EXTECH Hach Tes Hach Tes To be sent to Lab or CHEM. To be sen	EC500 EC500 EC500 EC500 EC500 t Strips t Strips ts Trips t to lab t to lab t to lab	
SECTION 3D: I Sam Temper Specific Sal Ch Am Surti E.co Enteroc Phos SECTION 3E: I Location Inlet Pipe No. 5 SECTION 3E: I	INLET PIPE NO. 4 SAMI uple Date/Time: Parameter rature (degrees F) pH c conductivity (uS) limity (ppm S) hlorine (ppm) mmonia (mg/L) di (cfu/100mL) coccus (cfu/100mL) sphorus (mg/L) INLET PIPE NO. 5 ASSE Upstream Asset ID INLET PIPE NO. 5 PHYS Indicat Asset Data Deposits/S Pool Que pip Algae(chysical indicators suggest an il Is Intel Tipe NO. 5 PHYS Indicators (my/L) Indicators Suggest an il Is Intel Tipe NO. 5 PHYS Indicators Suggest an il Is Intel Tipe NO. 5 PHYS Indicators Suggest an il Is Intel Tipe NO. 5 PHYS Indicator	F DESCRIPTION Material ICAL INDICATORS or nage tains lity irowth licit discharge is present (Y/N): 5 Flowing?	Clock Postion (Outlined Indian		>>	Reporting Limit ≥ 0.5 mg/L ≥ 0.25 mg/L 235 cfu/100mL 61 cfu/100mL		EXTECH EXTECH EXTECH EXTECH Hach Tes Hach Tes To be sent to Lab or CHEM. To be sen	ECS00 ECS00 ECS00 ECS00 ECS00 ECS00 t Strips t Strips t to lab t to lab t to lab t to lab With Sediment;	
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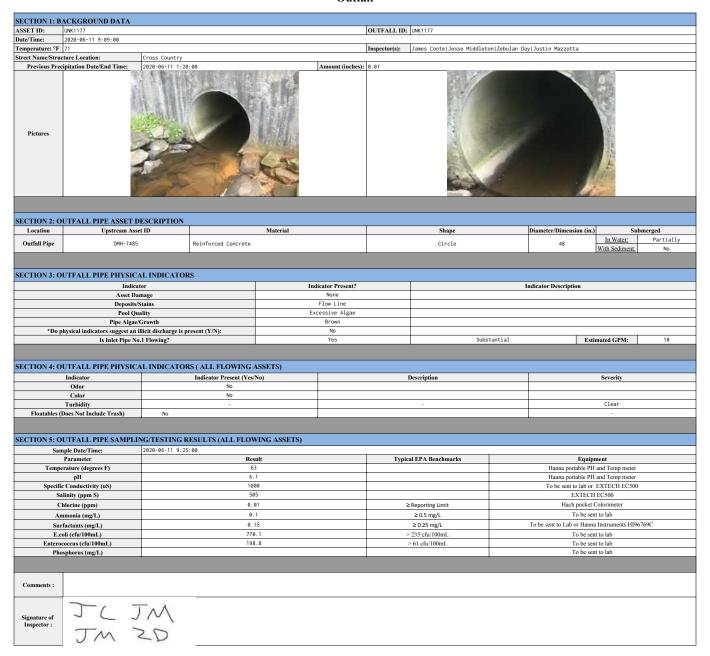
Pho	sphorus (mg/L)							To be sen	t to lab	
SECTION 3F: INLET PIPE NO. 6 ASSET DESCRIPTION										
Location	Upstream Asset ID	Material	Clock Postion (Outle	t Pipe at 6:00) Shape			Diameter/Dimension (in.)	Submerged		
Inlet Pipe No. 6								In Water:		
met ripe vo. o								With Sediment:		
SECTION 3F: INLET PIPE NO. 6 PHYSICAL INDICATORS										
	Indica	tor	Ind			Indicator Description				
	Asset Da	mage								
	Deposits/S	Stains								
	Pool Qu	ality								
	Pipe Algae/									
*Do p		llicit discharge is present (Y/N):								
	Is Inlet Pipe No	.6 Flowing?						Estimated GPM:		
SECTION 3F: INLET PIPE NO. 6 PHYSICAL INDICATORS (ALL FLOWING ASSETS)										
Indicator		Indicator Present (Yes/No)		Description			Severity			
Odor										
Color										
Turbidity		-			<u> </u>					
Floatables (Does Not Include Trash)								-		
SECTION 3F: INLET PIPE NO. 6 SAMPLING/TESTING RESULTS (ALL FLOWING ASSETS)										
Sample Date/Time:										
Parameter		Result			Typical EPA Benchmarks		Equipment			
Temperature (degrees F)							EXTECH EC500			
рН							EXTECH EC500		EC500	
Specific Conductivity (uS)							EXTECH EC500			
Salinity (ppm S)							EXTECH EC500			
Chlorine (ppm)					≥	Reporting Limit	Hach Test Strips			
Ammonia (mg/L)						≥ 0.5 mg/L	Hach Test Strips			
Sur	factants (mg/L)					≥ 0.25 mg/L	To be sent to Lab or CHEMets Detergents Kit K-9400		ets Detergents Kit K-9400	
E.coli (cfu/100mL)					>	235 cfu/100mL	To be sent to lab		t to lab	
Enteroc	coccus (cfu/100mL)				>	61 cfu/100mL	To be sent to lab		t to lab	
Phosphorus (mg/L)								To be sent to lab		
Comments :										
Signature of Inspector:										

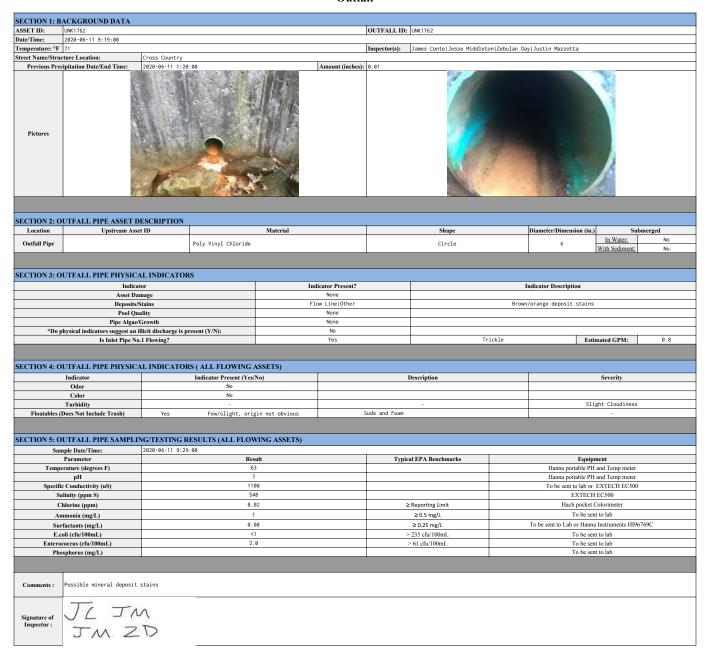
Haverhill IDDE Investigation & Inspection Form Outfall

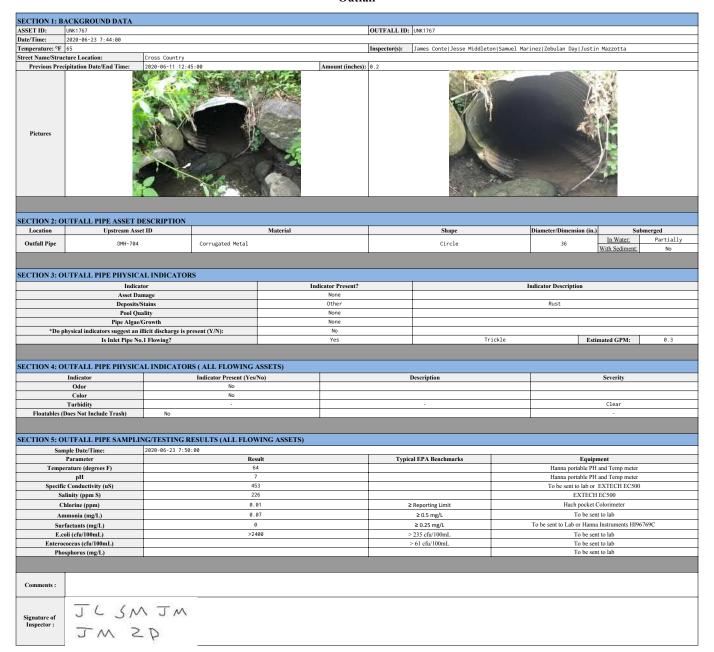








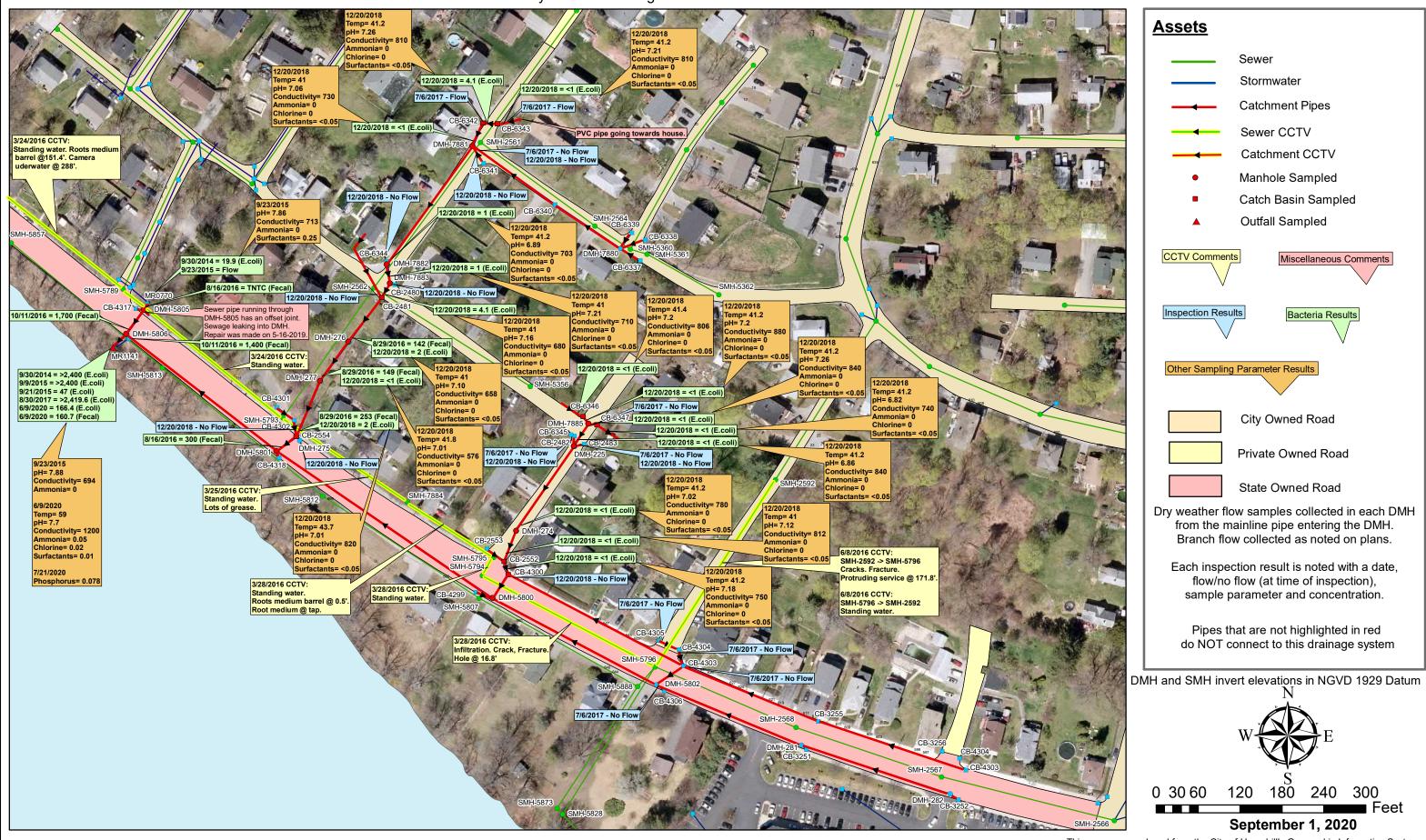






Outfall MR1141

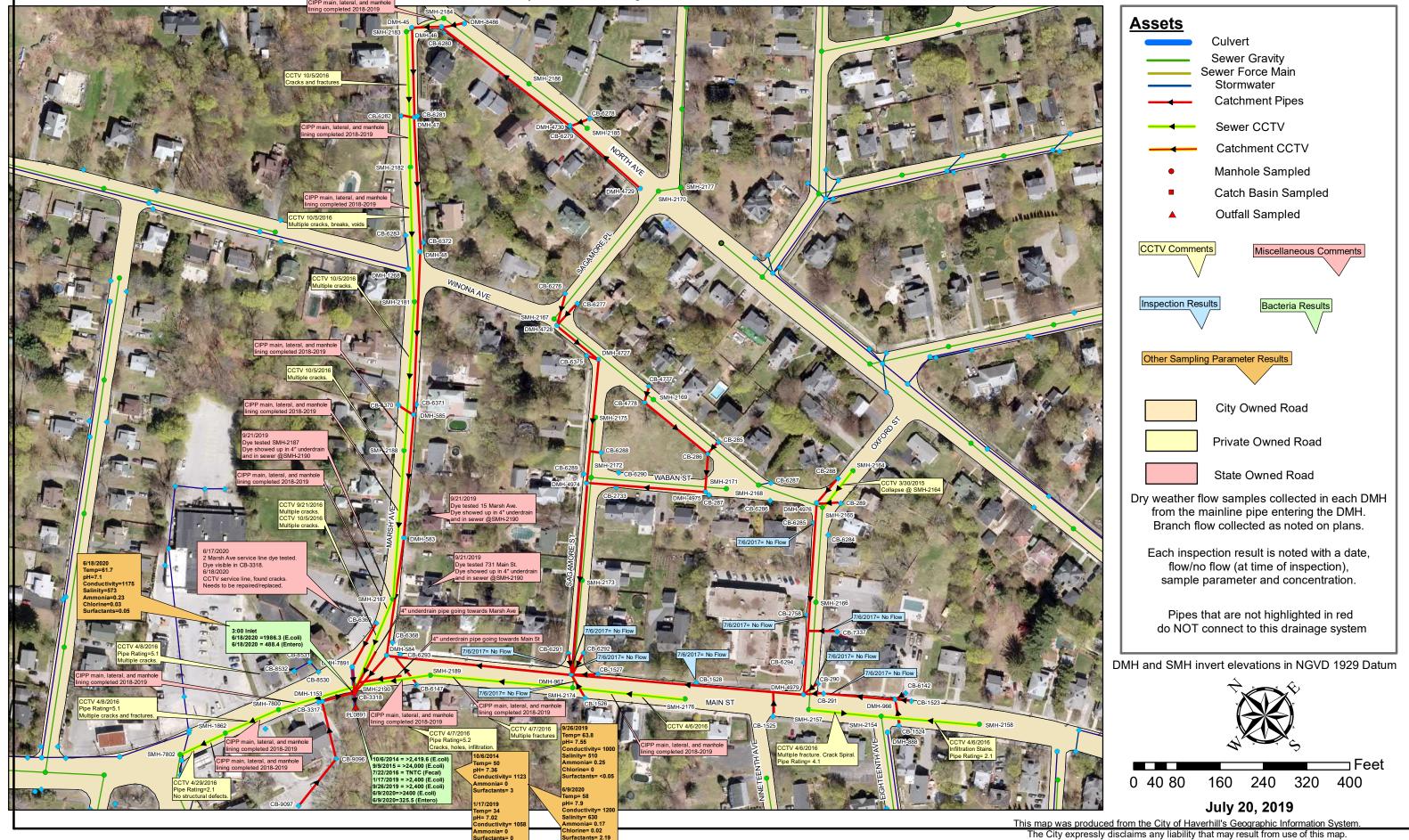
Summary of IDDE Investigations



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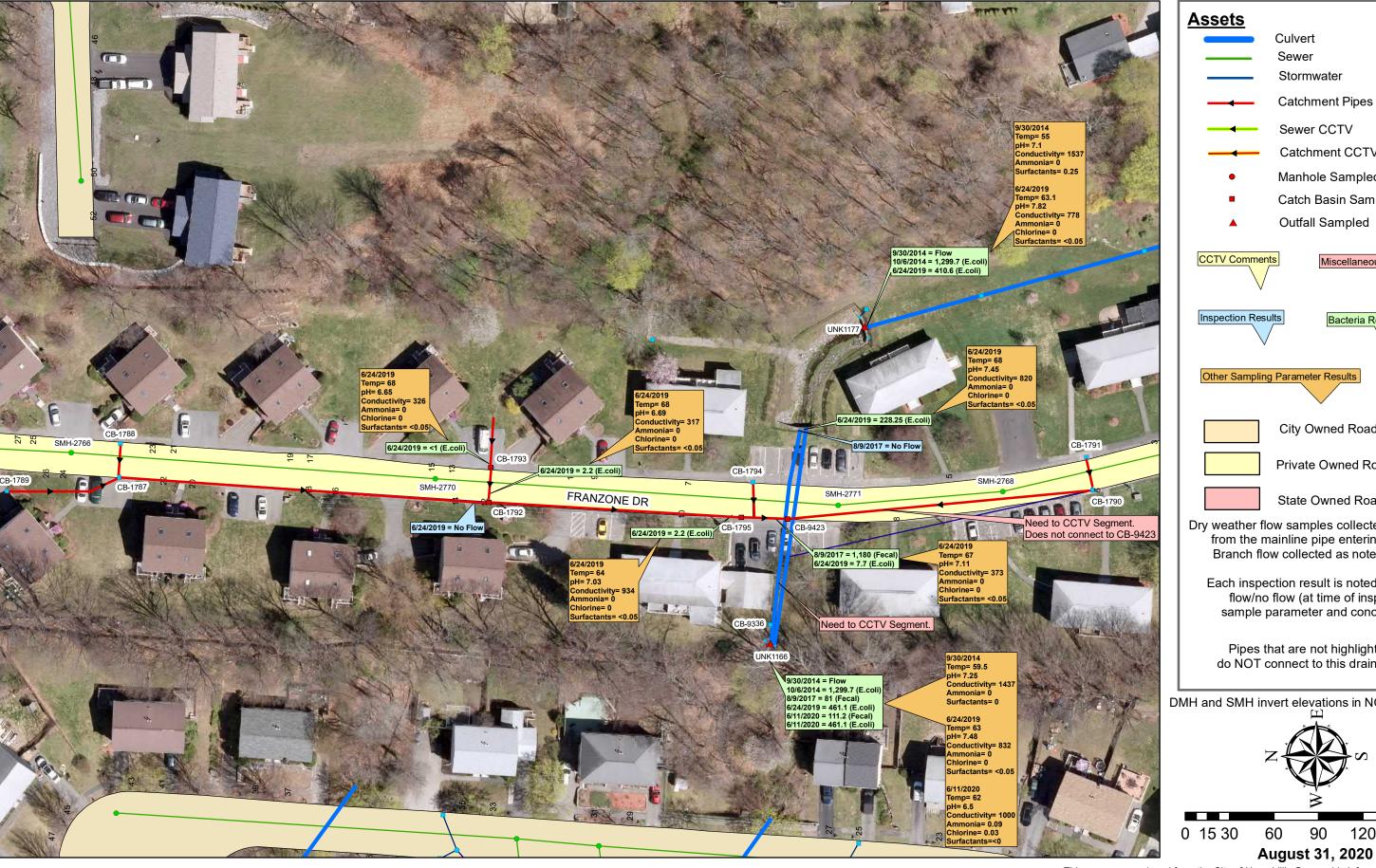
Outfall PL0891

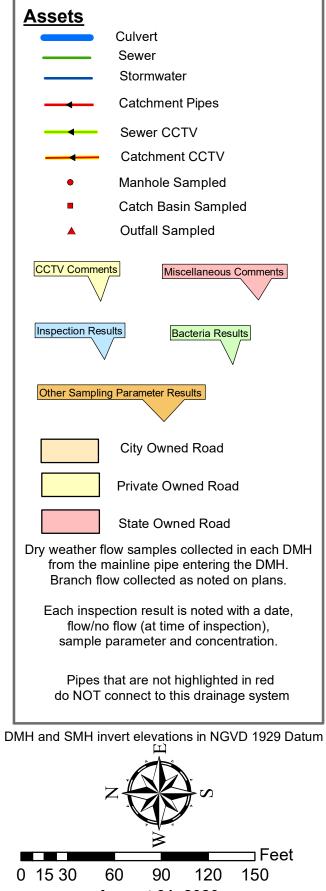
Summary of IDDE Investigations



Outfall UNK1166

Summary of IDDE Investigations

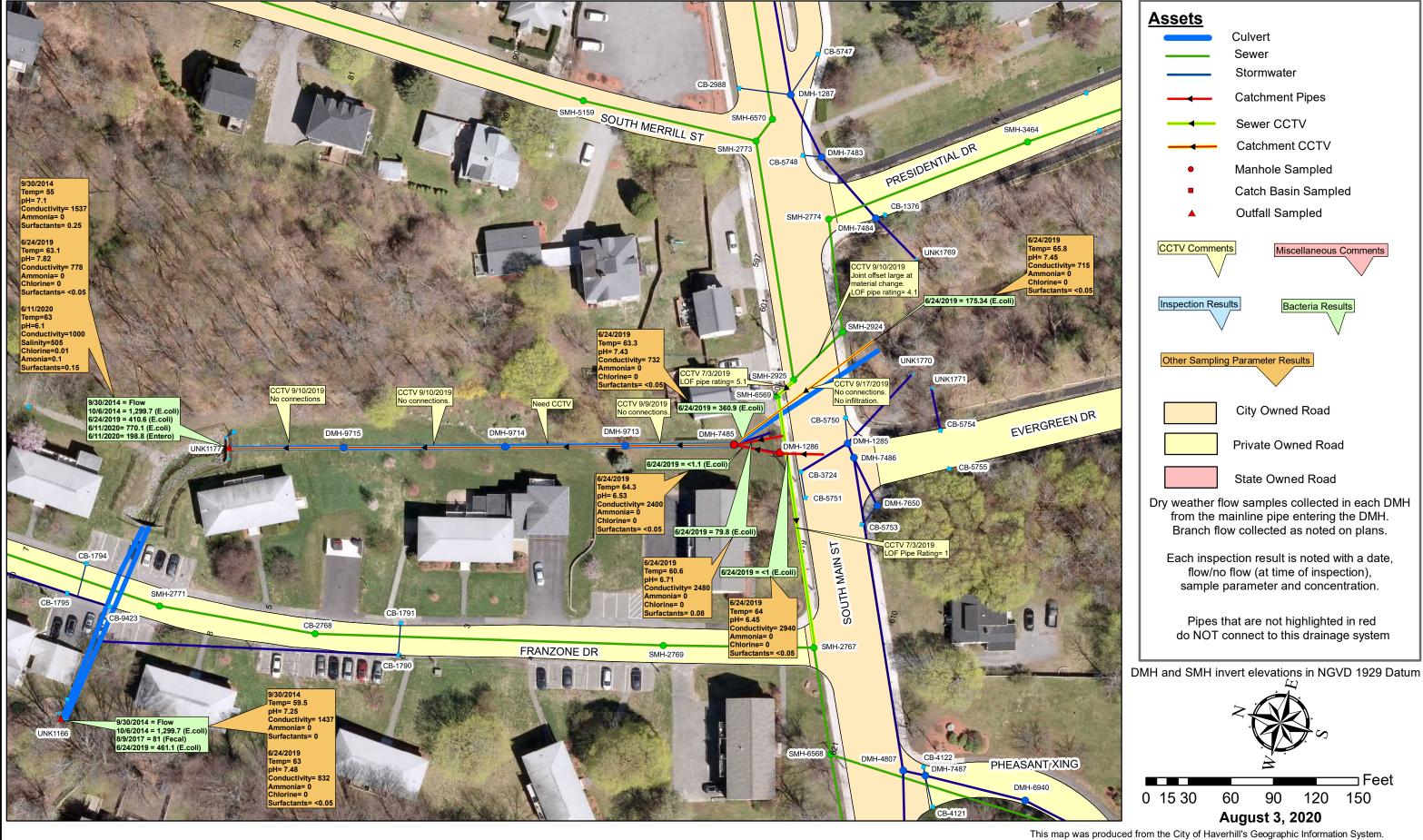




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Outfall UNK1177

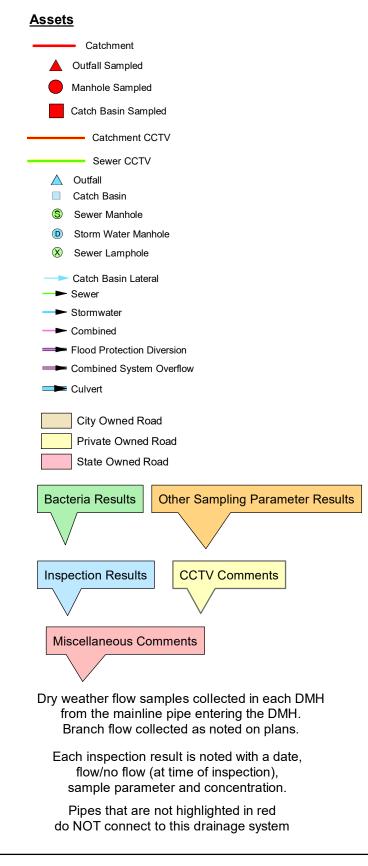
Summary of IDDE Investigations



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Outfall UNK1762 Summary of IDDE Investigations





DMH and SMH invert elevations in NGVD 1929 Datum

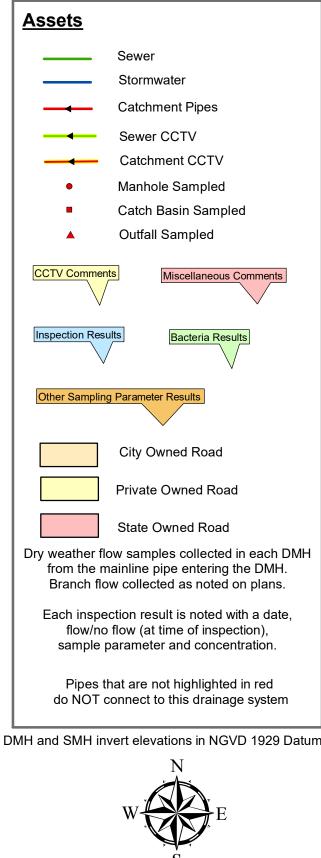
September 1, 2020

75 37.5 0 75 Feet



Outfall UNK1767





September 1, 2020

