Appendix E

Mystic Area Dye Water Testing Results



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DYED-WATER FLOODING

PROJECT LOCATION:

STONINGTON, CONNECTICUT 06355

PREPARED FOR SUBMISSION TO: CDM SMITH

OCTOBER 2022 MCA PROJECT NO.: 2021-335



Martinez Couch & Associates, LLC 1084 Cromwell Avenue Rocky Hill, CT 06067 Tel: 860-436-4364 MartinezCouch.com



1084 Cromwell Avenue, Suite A-2 Rocky Hill, CT 06067 Tel: 860-436-4364 Fax: 860-436-4626 www.martinezcouch.com



SUMMARY

Martinez Couch & Associates (MCA) and National Water Main Cleaning Co. (NWMCC) performed Dyed-Water Flooding in Stonington on 10/25/2022.

We performed testing to attempt to confirm potential defects at 9 locations throughout Stonington, CT which were identified during building inspections performed over the past year. Our testing confirmed that all potential defects were connected to the storm drainage system, as intended, and therefore require no further remediation. The testing also confirmed that the truck bay drains at the Fire Department on North Stonington Road are connected to an oil water separator, as designed, and then flow into the sanitary sewer.



Job #: 2021-335

Job Name: Stunington SSFS

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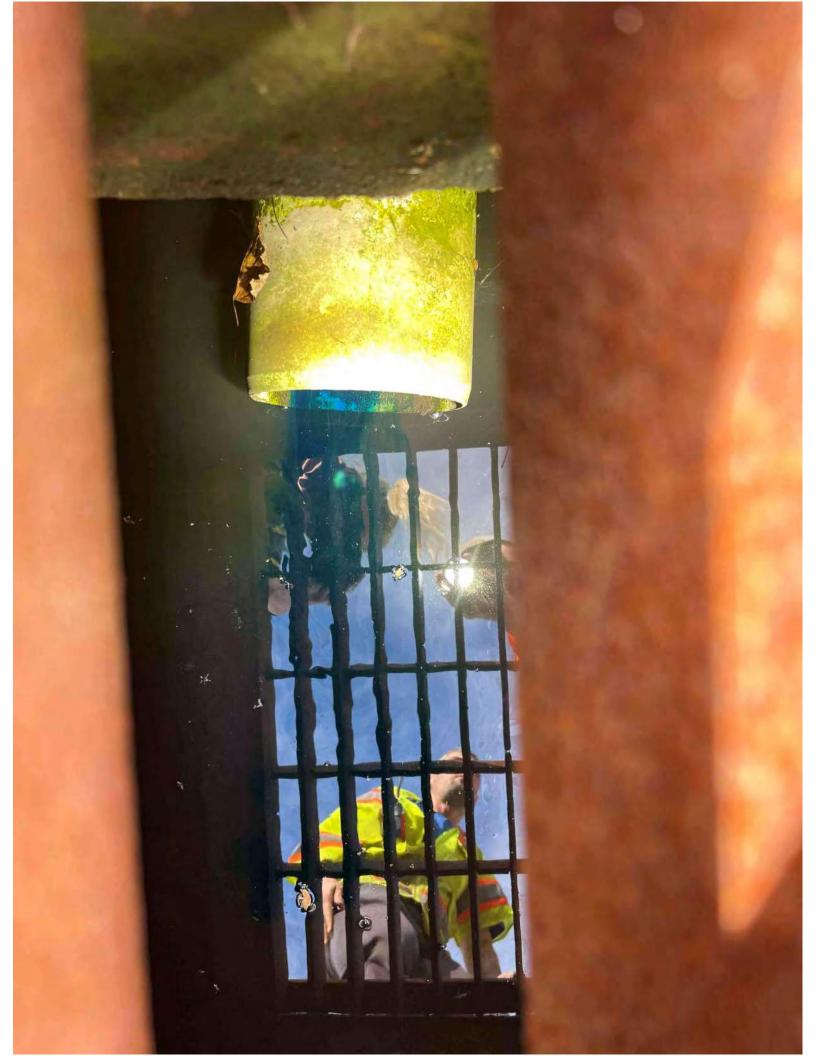
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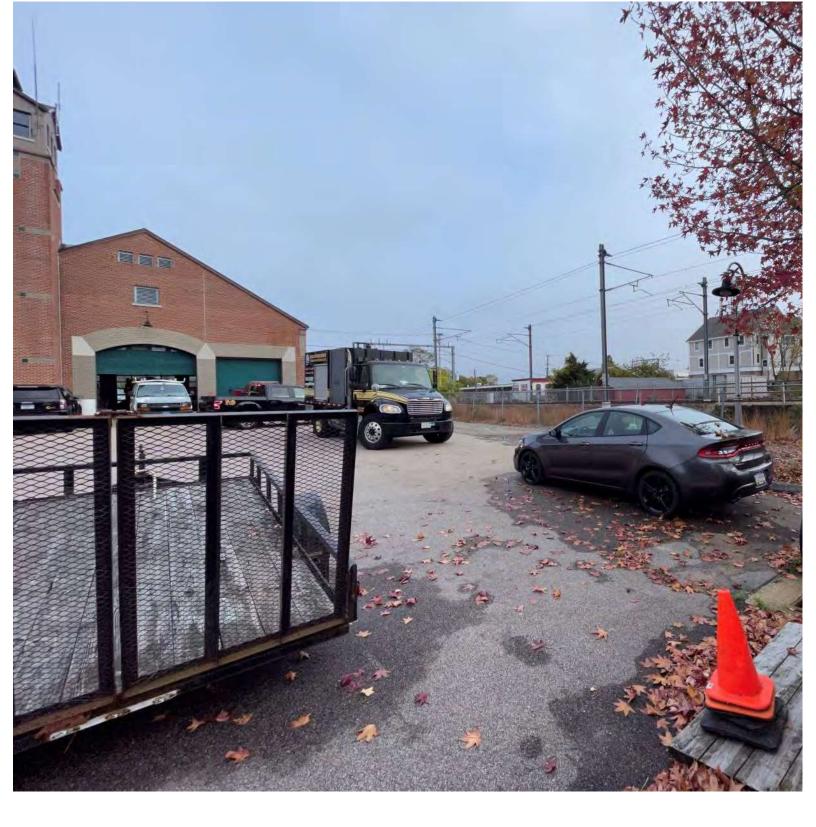


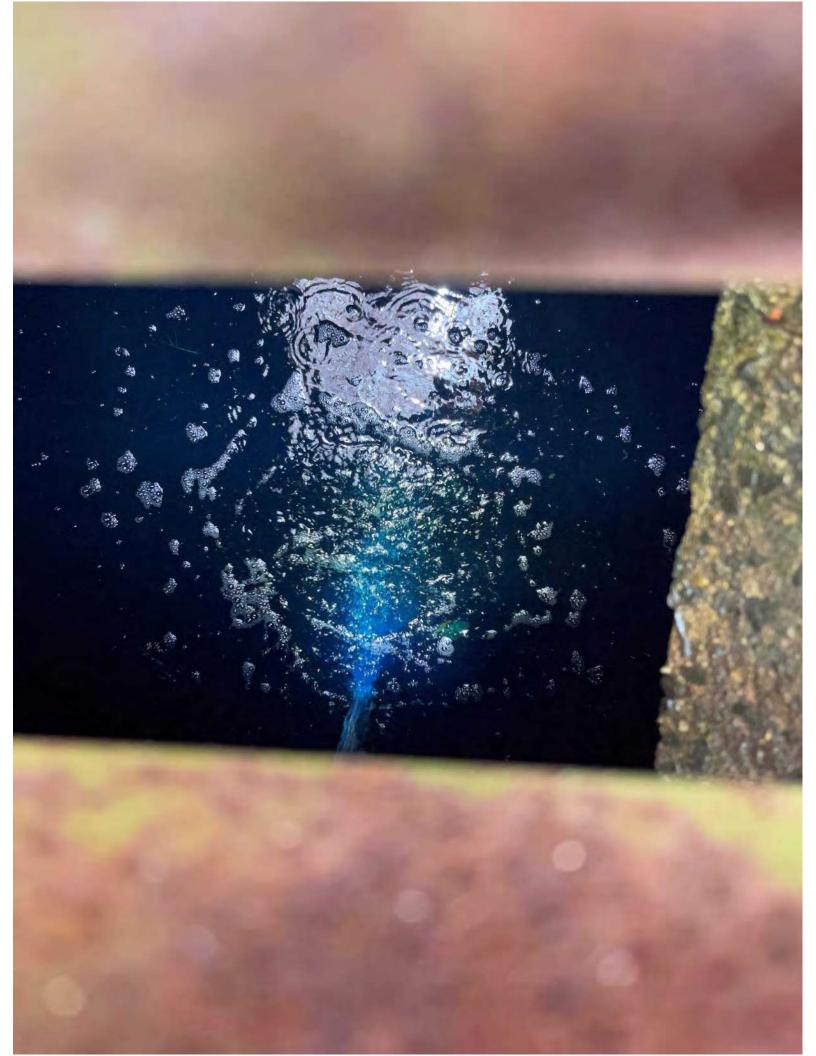


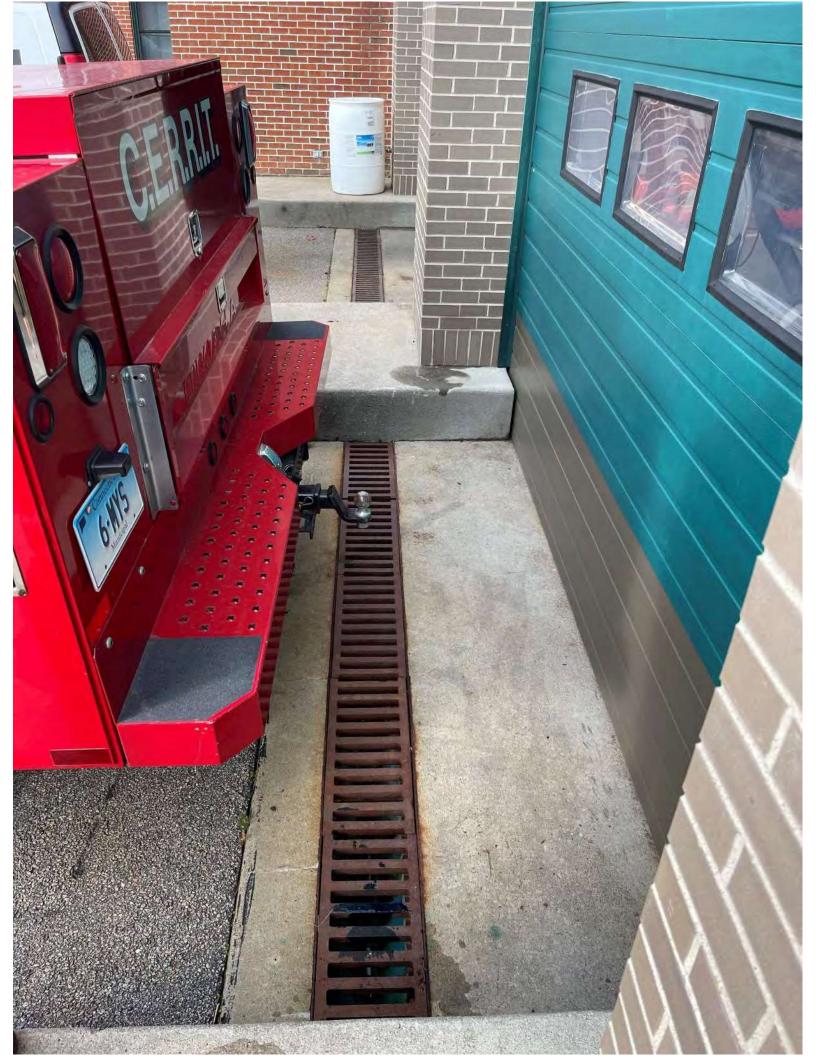














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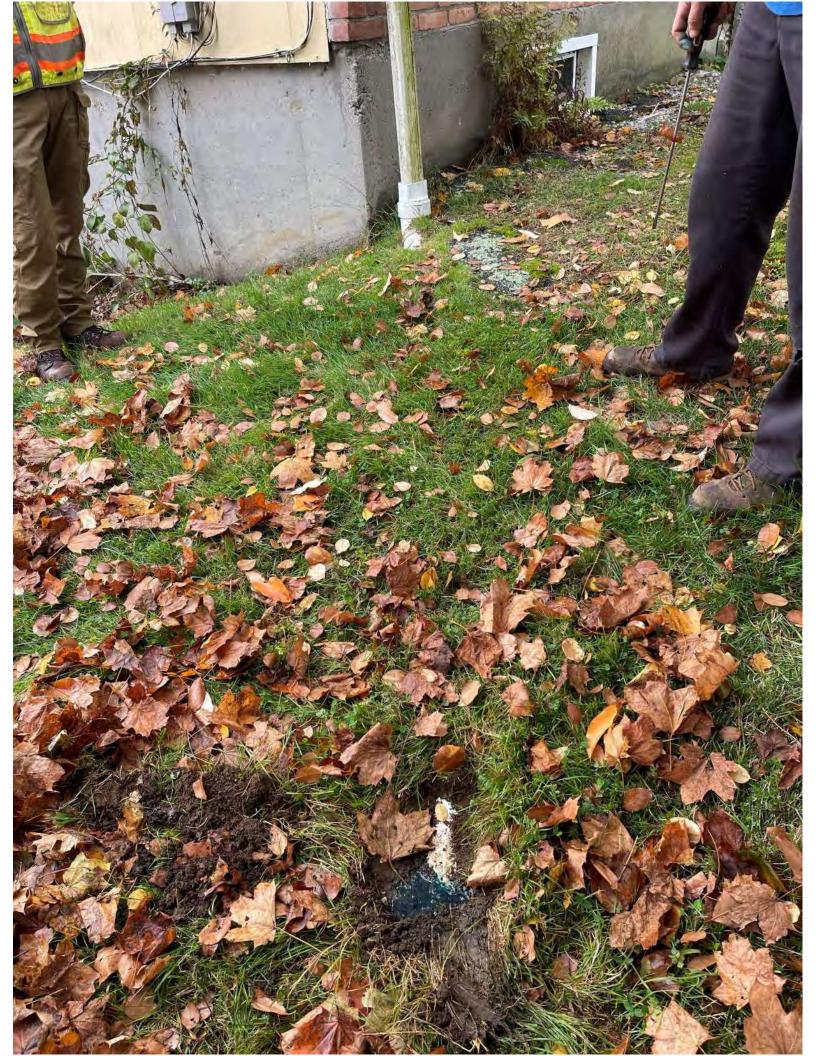
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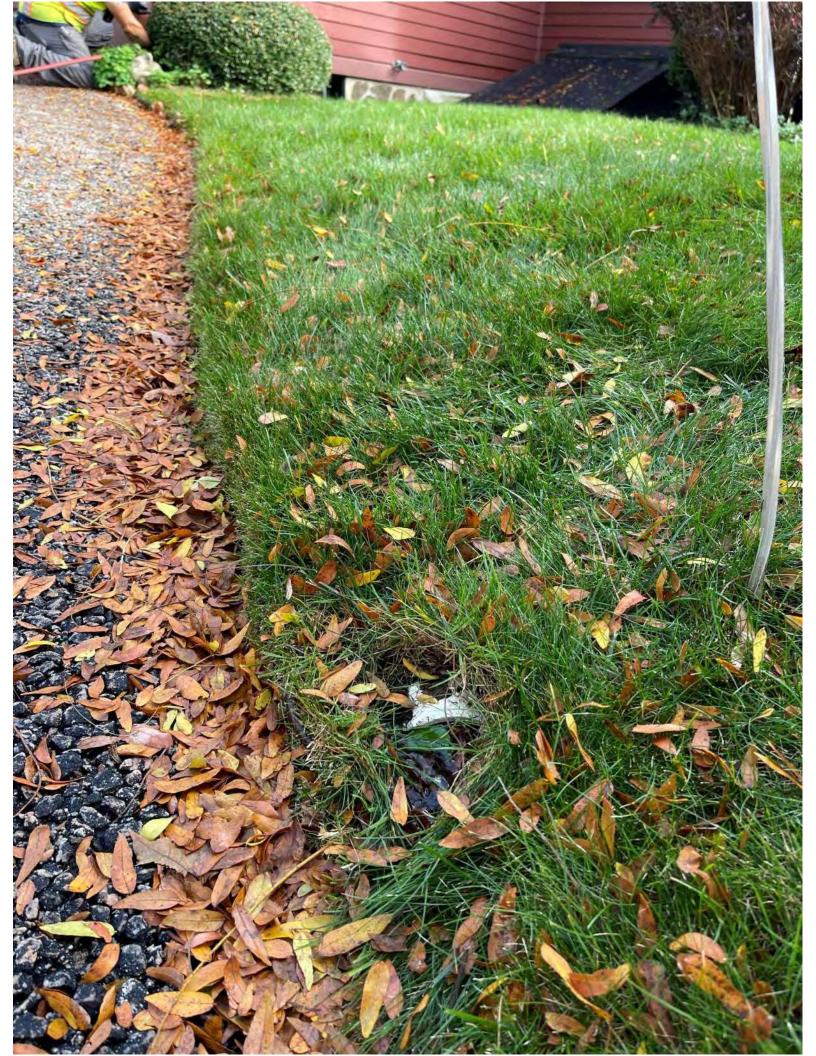
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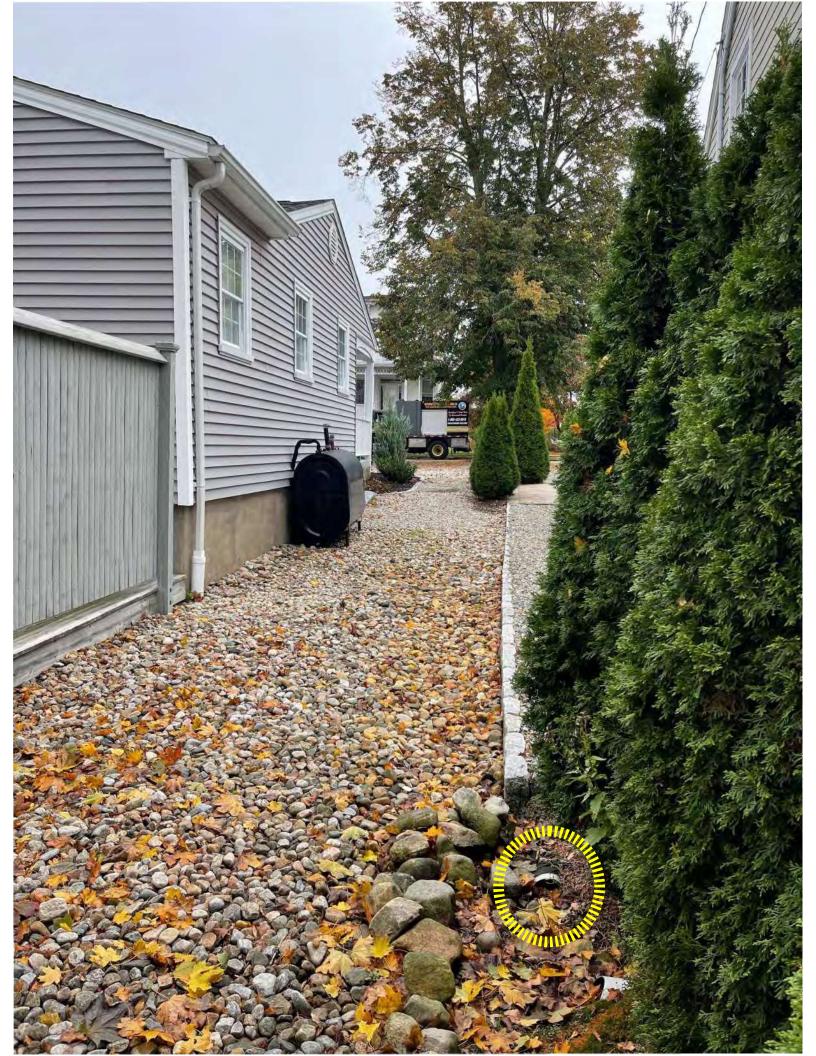
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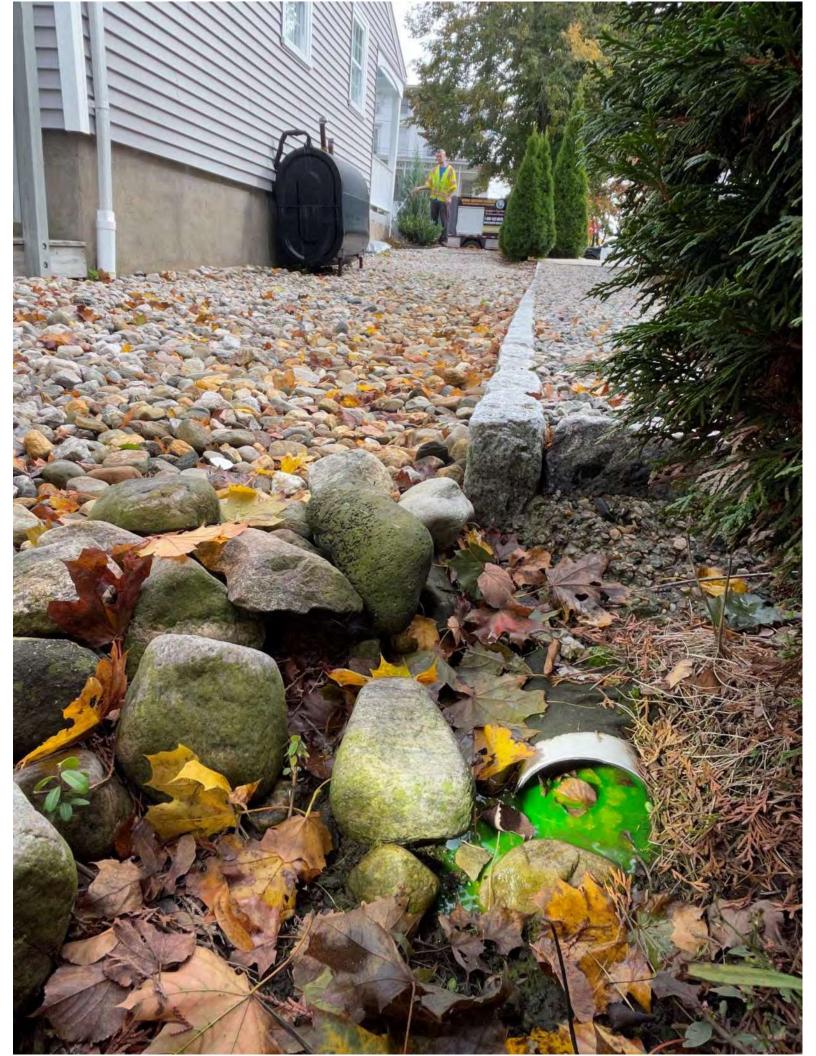
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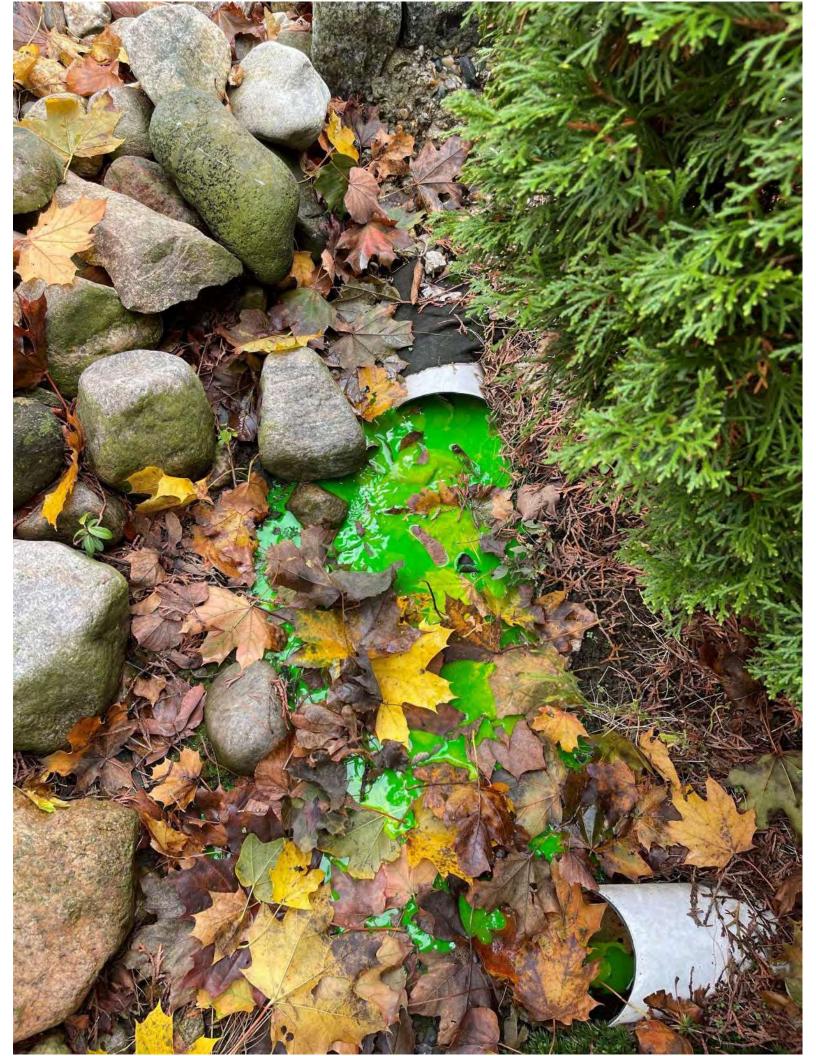
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Camera -> © Martinez Couch & Associates, LLC

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Job Name: Stoning ton SES

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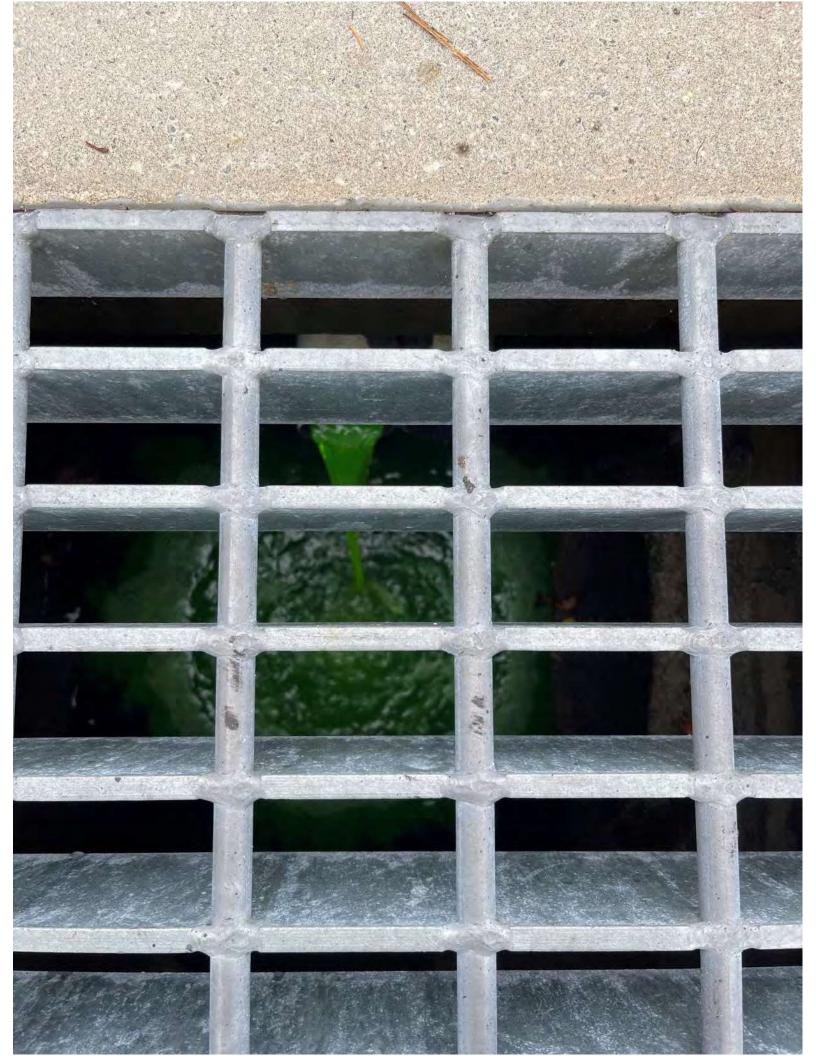
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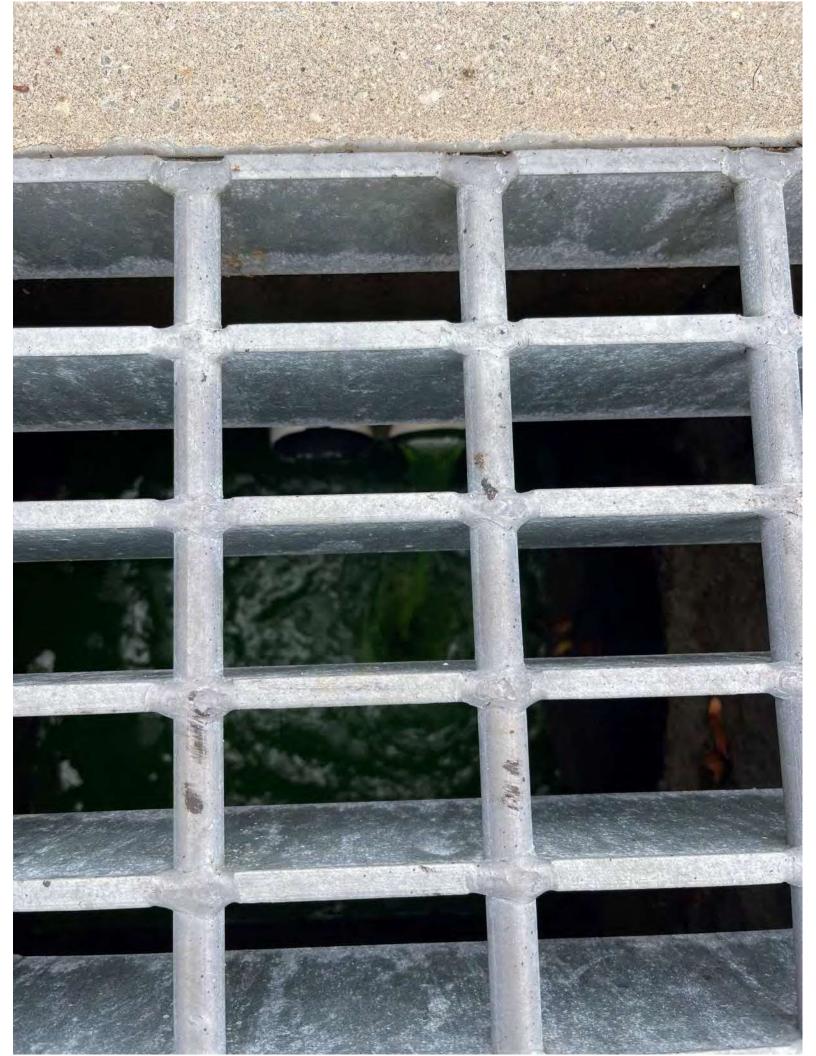
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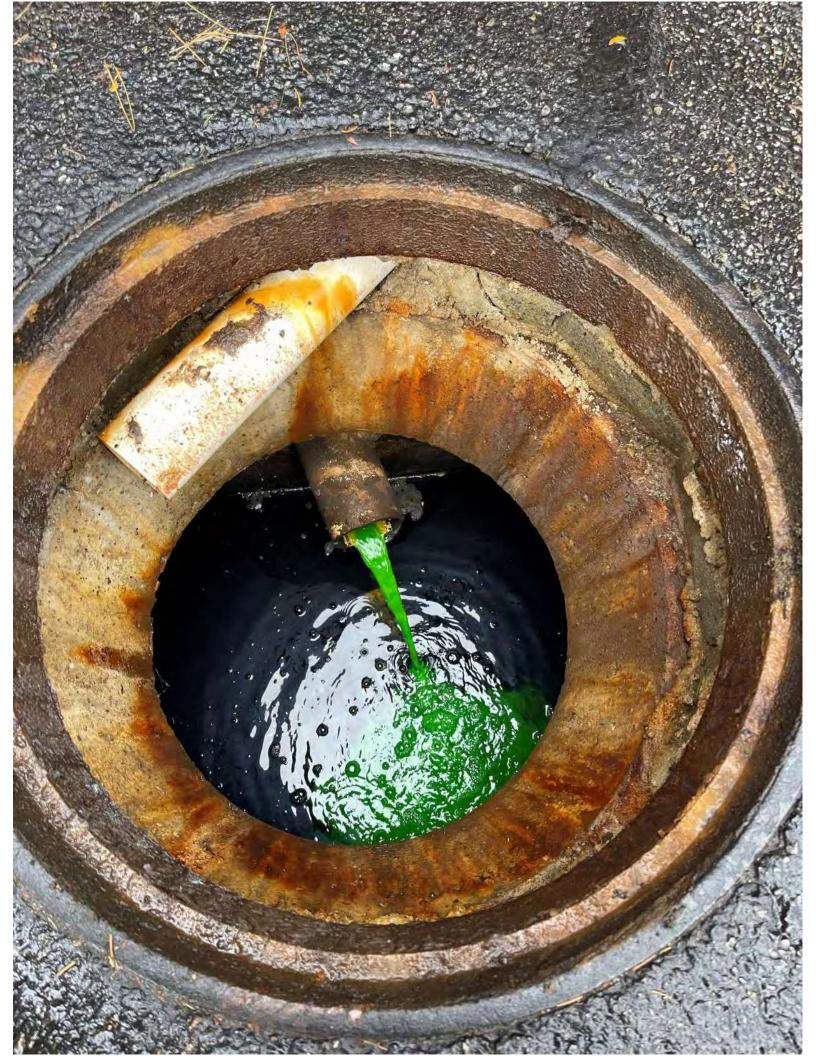




















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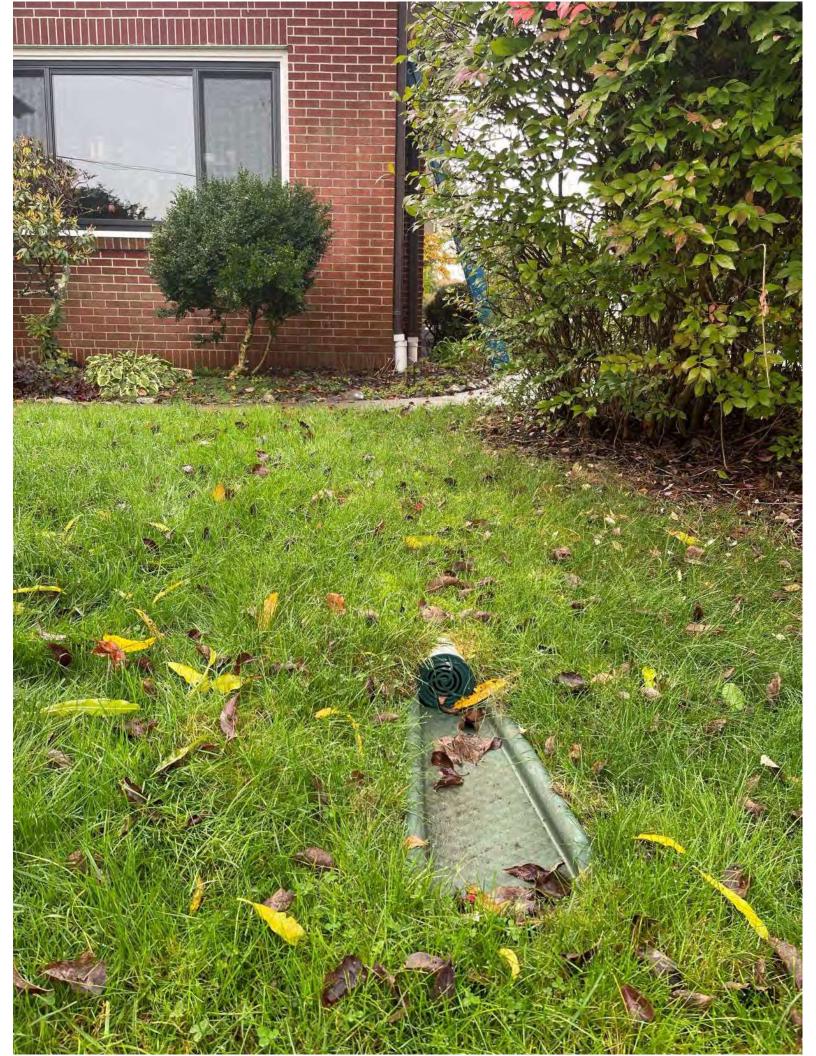
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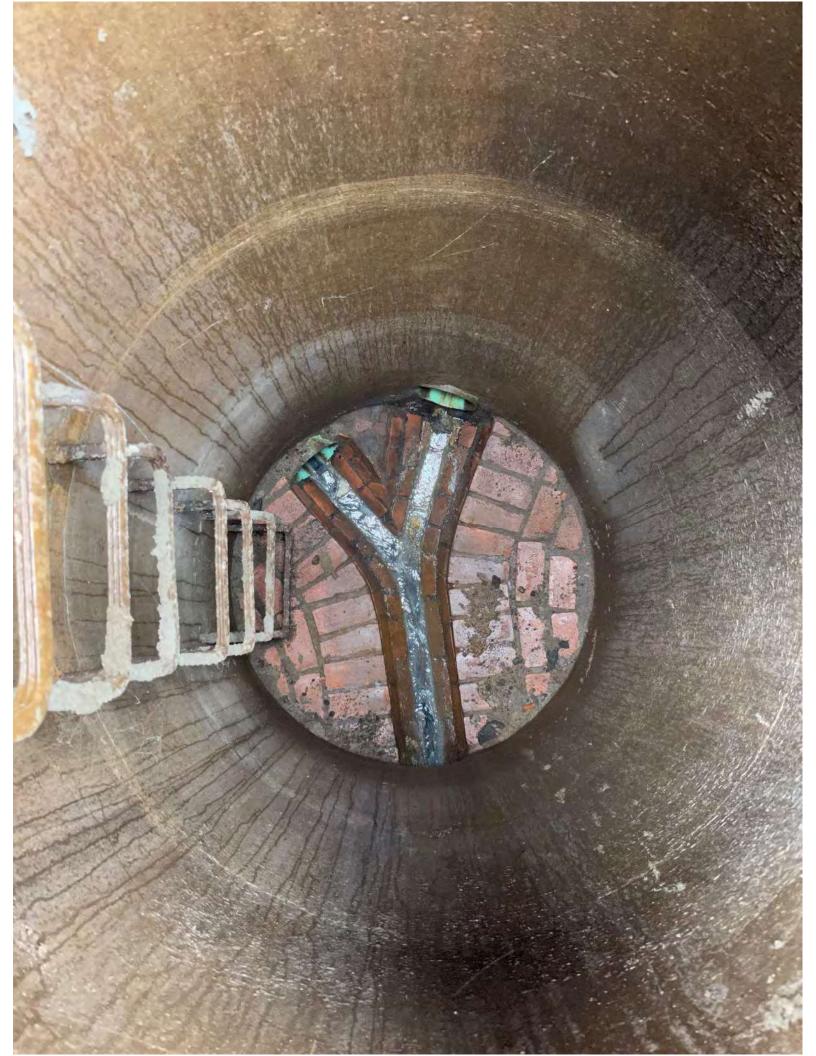














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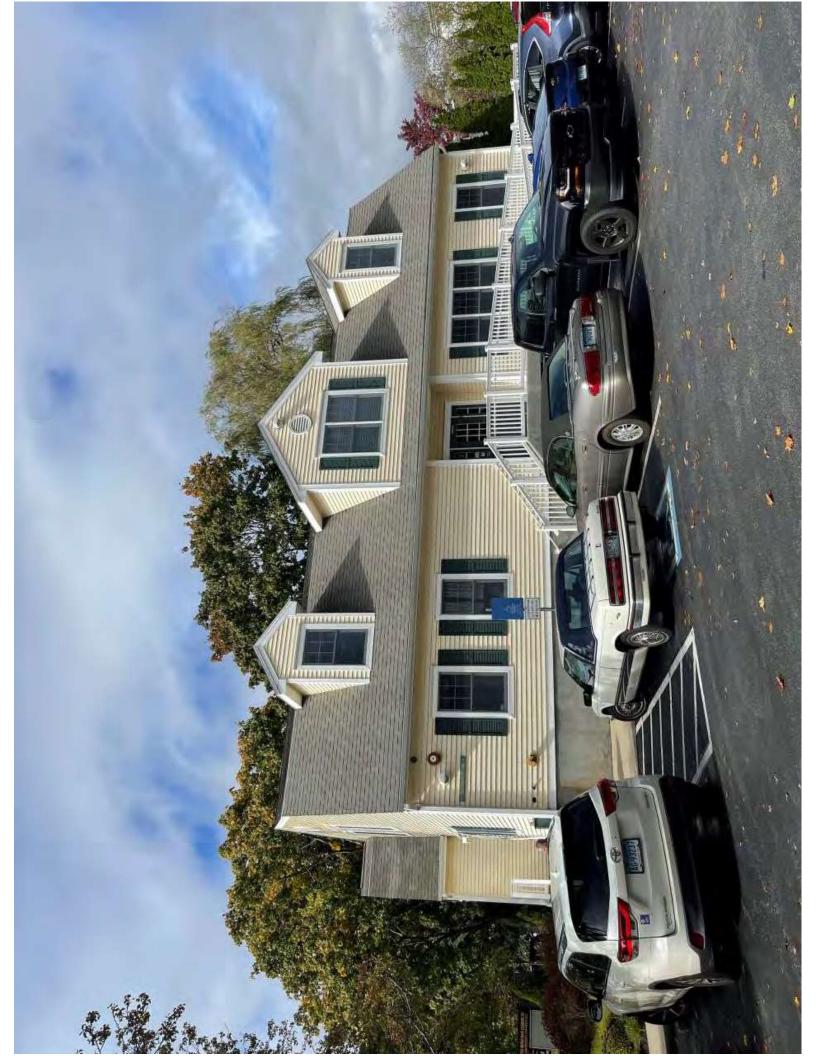
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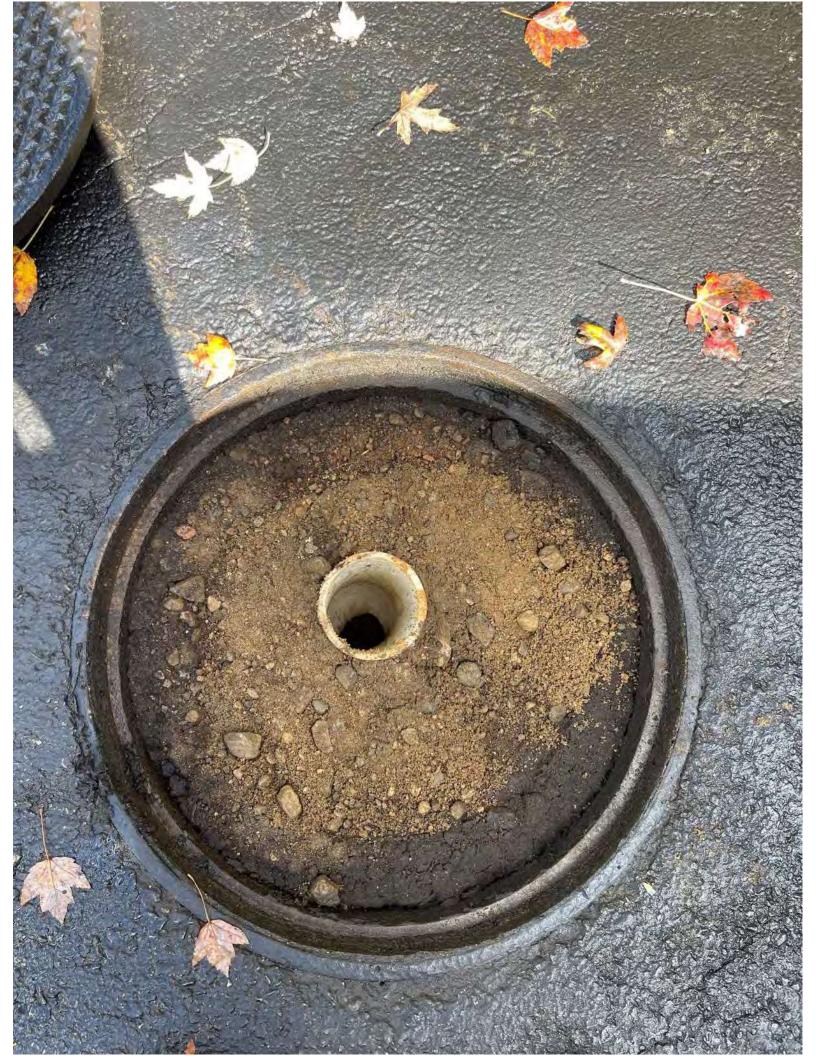
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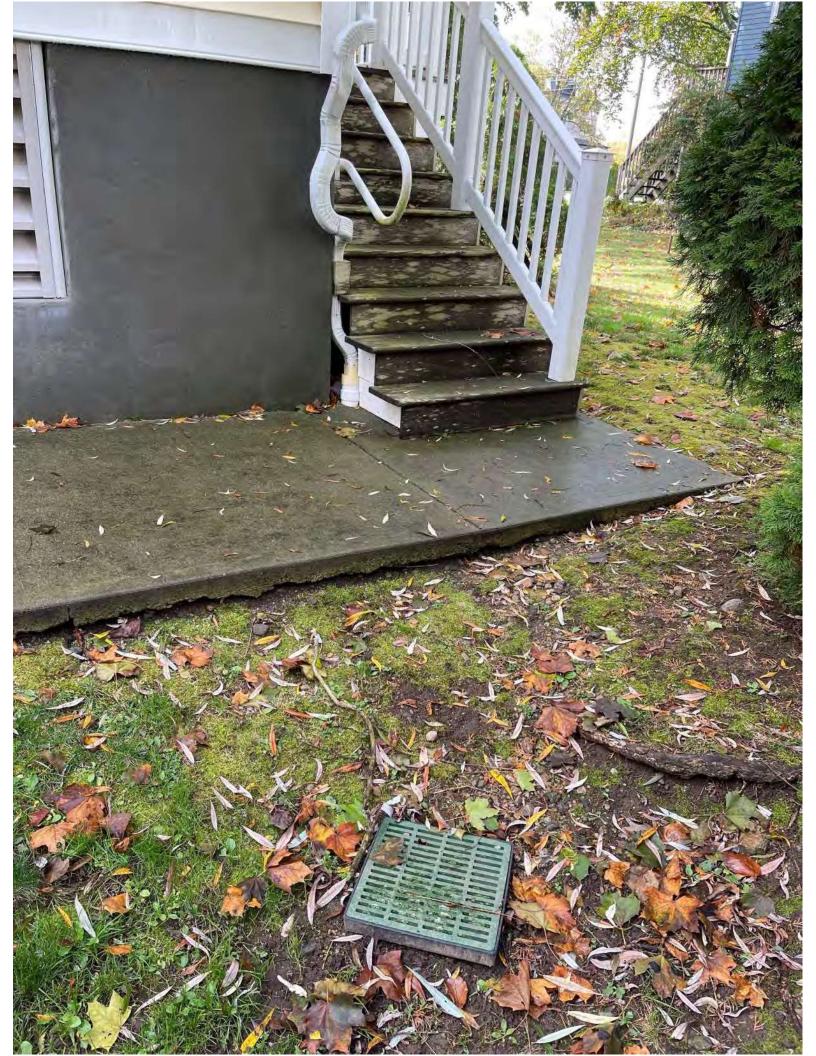
















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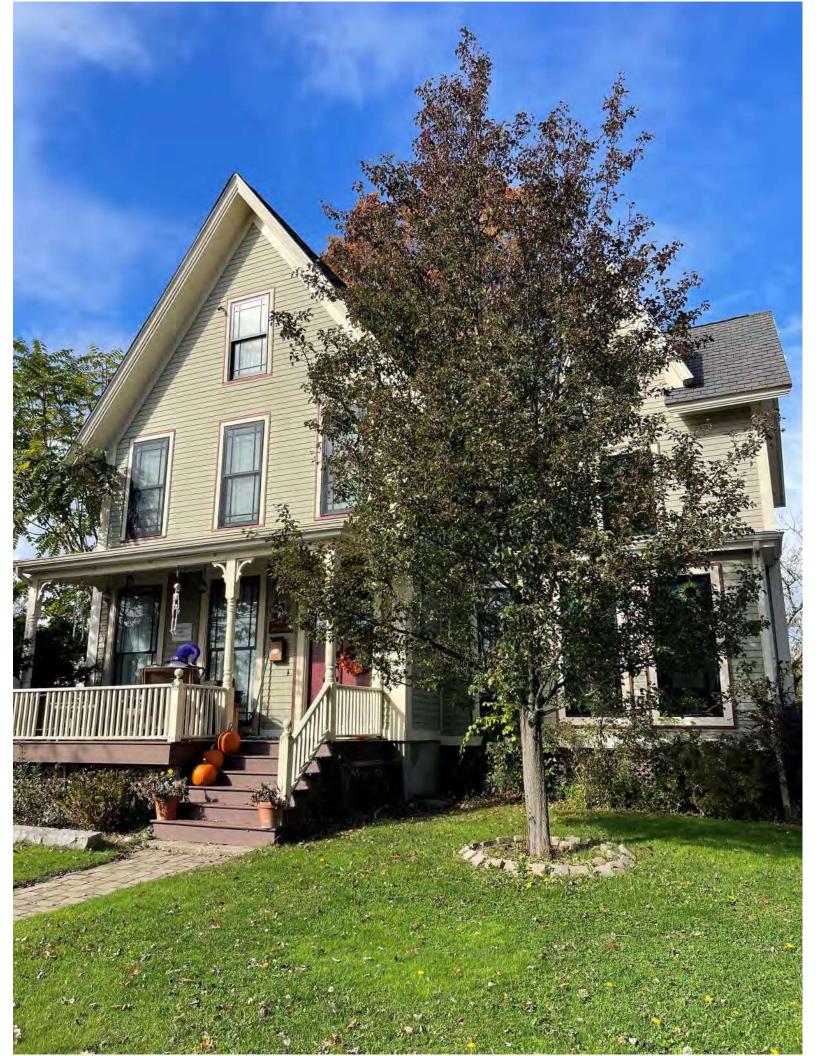
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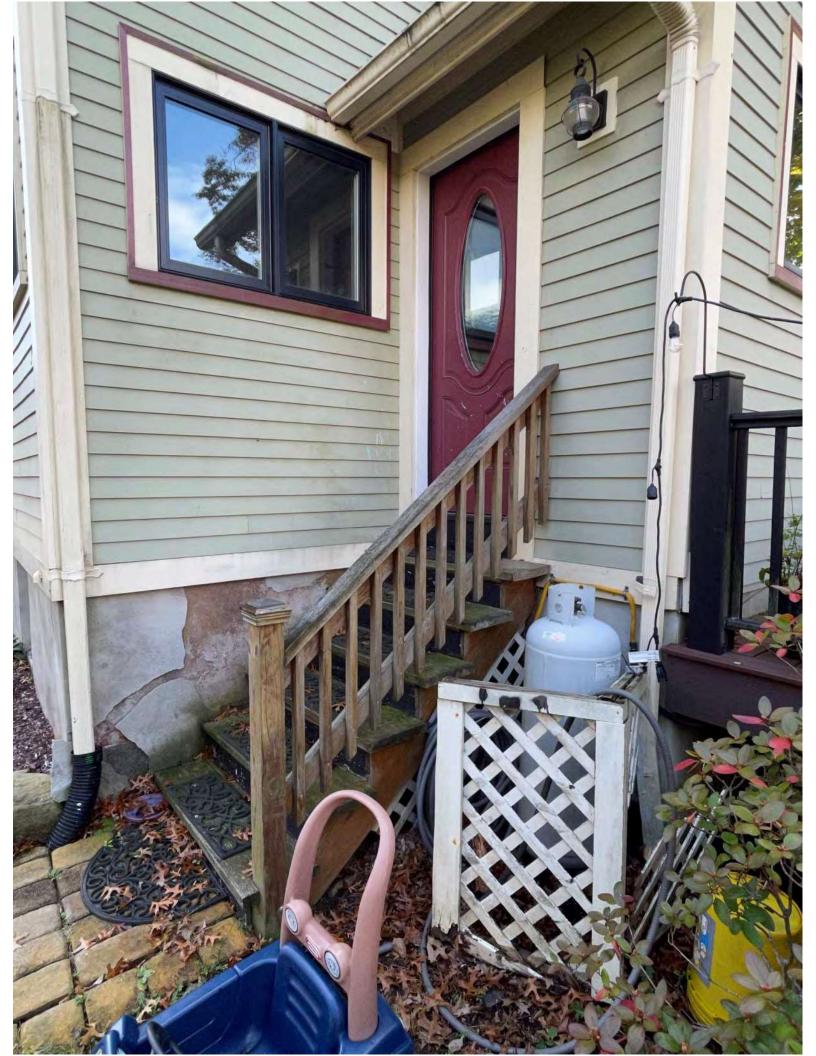
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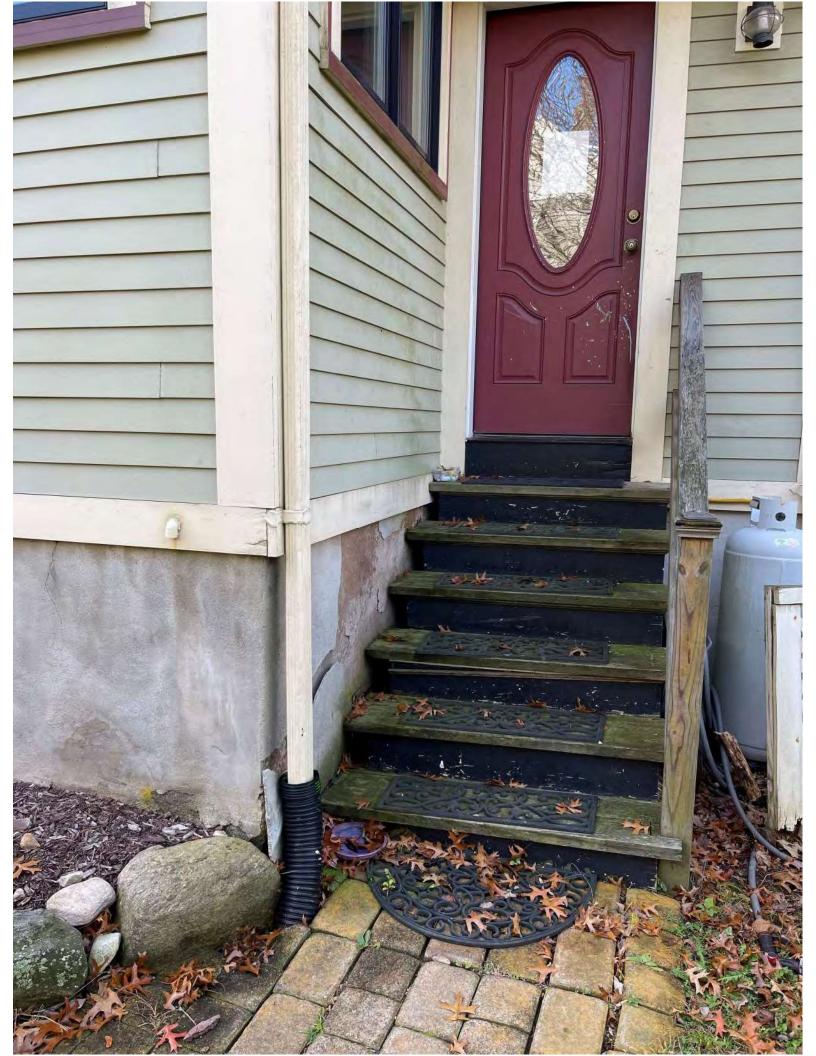
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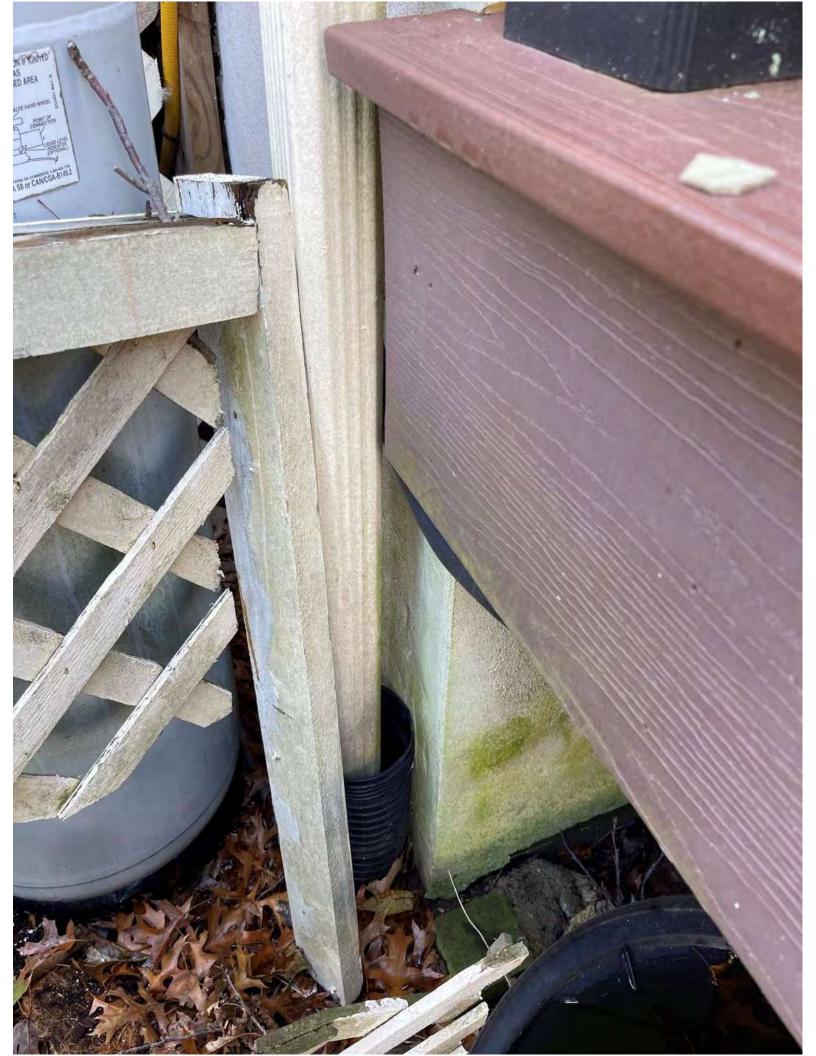
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Job #: 2021-335

Job Name: Stanington SSES

Sheet #: of 2 Scale: not to scale

Calculated by: Date: Da

196	Whitehall	Avenue		***************************************				169	7 (1	
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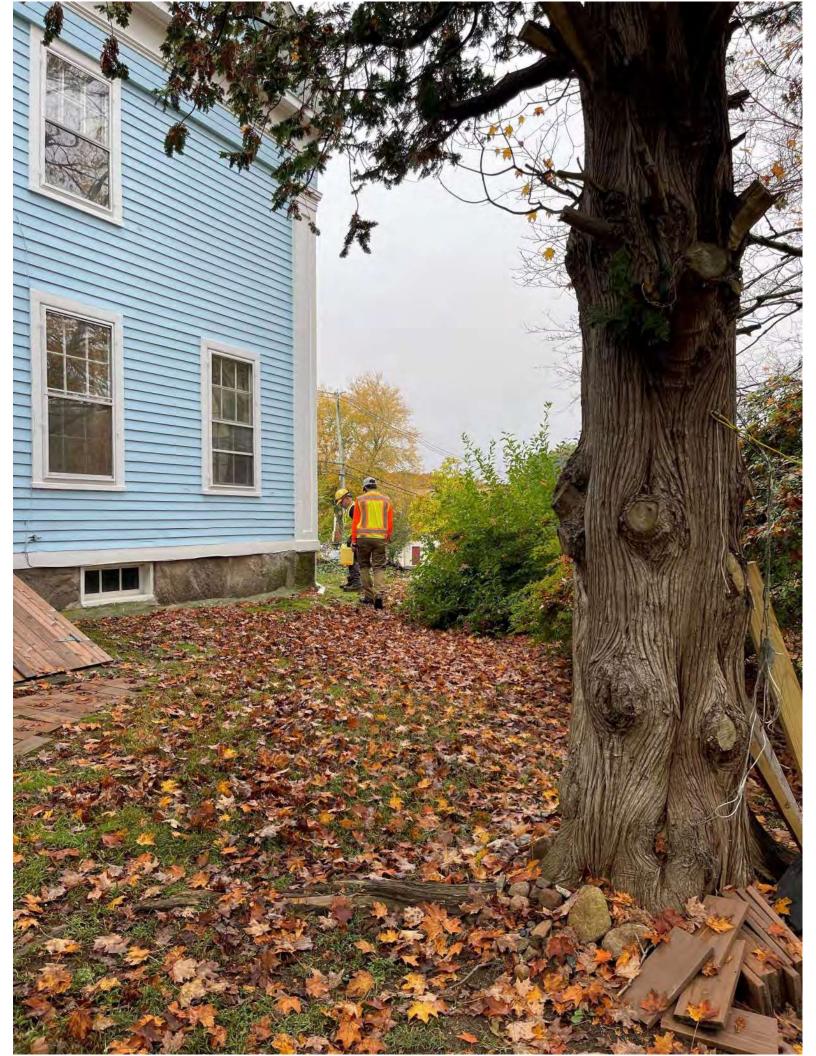


Job Name: Sheet #: Scale: Not to S Calculated by: Date:

T :	OUCH & ASSOCIATES, LLC	Checked by: / ruy / onis Date: 10/25/23
196	Whitehall Avenue	
	Notes:	
	* No yard drain on	property
	* Roof leader goes into and disperses in the you confirmed	ground to perforated pipe rd by a tree. Homeowner
	* Stonington WPCA was and looked at sanitan	present for testing y in basement usith









National Water Main Cleaning Co.

25 Marshall Street Canton, MA 02021 Office: 800-422-0815 Fax: 781-828-2473

NWMCC INSPECTION REPORT

PACP Rating Description

<u>1:</u>	Excellent Condition
	Minor Defects - Failure unlikely in the foreseeable future
<u>2:</u>	Good Condition
	Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.
<u>3:</u>	Fair Condition
	Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.
<u>4:</u>	Poor Condition
	Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.
<u>5:</u>	Immediate Attention
	Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.



Property Address: 1443 Pequot Trail

National Water Main Cleaning Co.

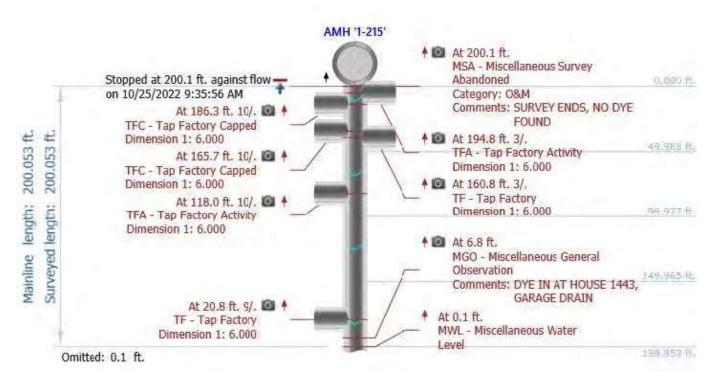
25 Marshall Street Canton, MA 02021 Office: 800-422-0815

Fax: 781-828-2473

NWMCC INSPECTION REPORT

Start date/time:	Weather:	Surveyed by:	Certificate number:	Pipe segment ref.:			
20221025 09:17	Dry - No precipitation during survey	T.CRONK	U-0120-70308103	1-215-1-212			
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: MAR016-4			
City: STONINGTON CT	Street: PEQUOT RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control:		
Upstream MH No: 1-215	Downstrea 1-212	am MH No:	Direction:	Total length: 200.053 ft.	Length surveyed: 200.053 ft.		
Purpose:	Pipe joint length:	Height: 8 in.	Material: Polyvinyl Chloride	Additional info: UPSTREAM SURVE	Y FOR DYE TEST		

	Structural:						O&M:					Overall:			
Grade	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk	
1	0	0				0	0								
2	0	0				0	0								
3	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0		
4	0	0				0	0								
5	0	0				0	0								



Inspection Photos

City: Street: Start date/time: Pipe segment ref.:

 STONINGTON CT
 PEQUOT RD
 20221025
 09:55
 1-215-1-212



Photo: 1-215-1-212-20221025-091723-092446.JPG

At: 6.805 ft. MGO - Miscellaneous General Observation

Joint: No DYE IN AT HOUSE 1443, GARAGE DRAIN

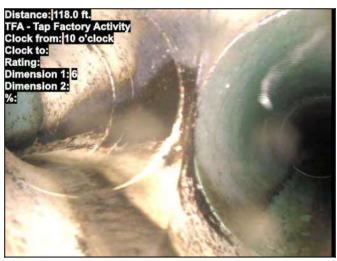


Photo: 1-215-1-212-20221025-091723-093051.JPG

At: 117.99 ft. TFA - Tap Factory Activity

Joint: No

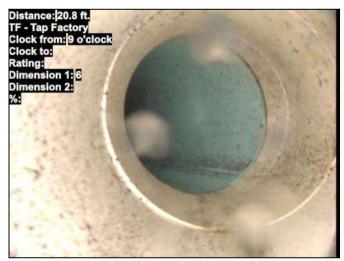


Photo: 1-215-1-212-20221025-091723-092702.JPG

At: 20.816 ft. 9/. TF - Tap Factory

Joint: No

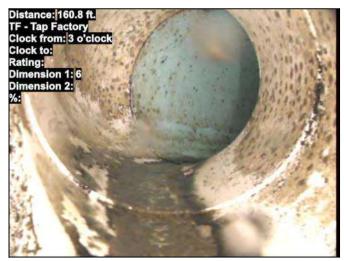


Photo: 1-215-1-212-20221025-091723-093259.JPG

At: 160.823 ft. TF - Tap Factory

3/.

Joint: No



Photo: 1-215-1-212-20221025-091723-093331.JPG 165.727 ft. TFC - Tap Factory Capped 10/.

Joint: No



Photo: 1-215-1-212-20221025-091723-093453.JPG At: 194.849 ft. TFA - Tap Factory Activity

Joint: No



Photo: 1-215-1-212-20221025-091723-093424.JPG At: 186.343 ft. TFC - Tap Factory Capped 10/.

Joint: No



1-215-1-212-20221025-091723-093532.JPG Photo:

At: 200.053 ft. MSA - Miscellaneous Survey Abandoned

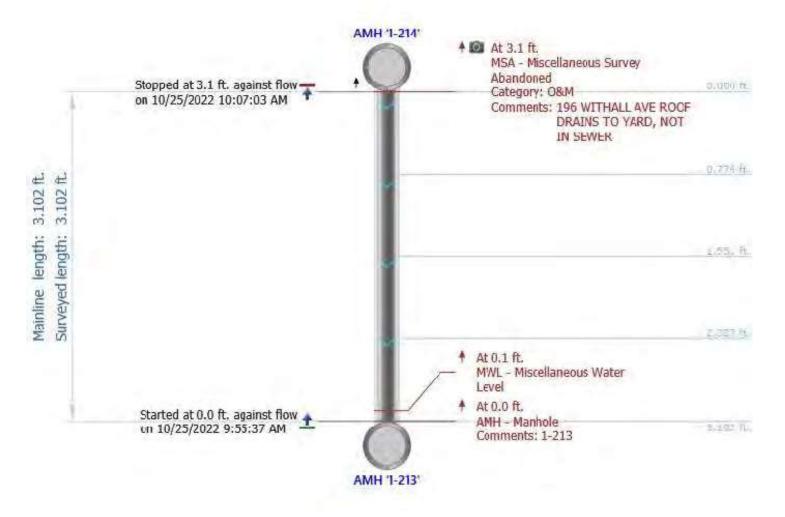
SURVEY ENDS, NO DYE FOUND Joint: No

Property Address: 196 Whitehall Avenue

NWMCC INSPECTION REPORT

Start date/time:	Weather:	Surveyed by:	Certificate number:	Pipe segment ref.:			
20221025 09:55	Dry Weather/W Ground	et T.CRONK	U-0120-70308103	1-214-1-213			
Owner:	Customer:	Pre-cleaning:	Date cleaned:	Project name:			
		No Pre-Cleaning		MAR016-4			
City:	Street:	Location code:	Pipe use:	Drainage area:	Flow control:		
STONINGTON CT	WHITHALL AV	E	Sanitary Sewage Pipe				
Upstream MH No:	Dov	vnstream MH No:	Direction:	Total length:	Length surveyed:		
1-214	1-2	13	U	3.102 ft.	3.102 ft.		
Purpose:	Pipe joint length	n: Height:	Material:	Additional info:			
		8 in.	Polyvinyl Chloride	UPSTREAM SURV	EY FOR DYE TEST		

	Structural:						O&M:					Overall:			
Grade	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk	
1	0	0				0	0								
2	0	0				0	0								
3	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0		
4	0	0				0	0								
5	0	0				0	0								



Inspection Photos

City: Street: Start date/time: Pipe segment ref.:

STONINGTON CT WHITHALL AVE 20221025 10:23 1-214-1-213

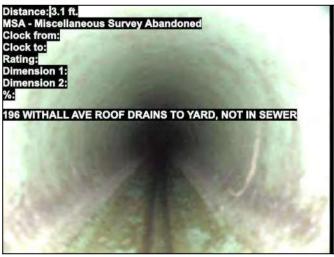


Photo: 1-214-1-213-20221025-095537-100600.JPG

At: 3.102 ft. MSA - Miscellaneous Survey Abandoned

Joint: No 196 WITHALL AVE ROOF DRAINS TO YARD,

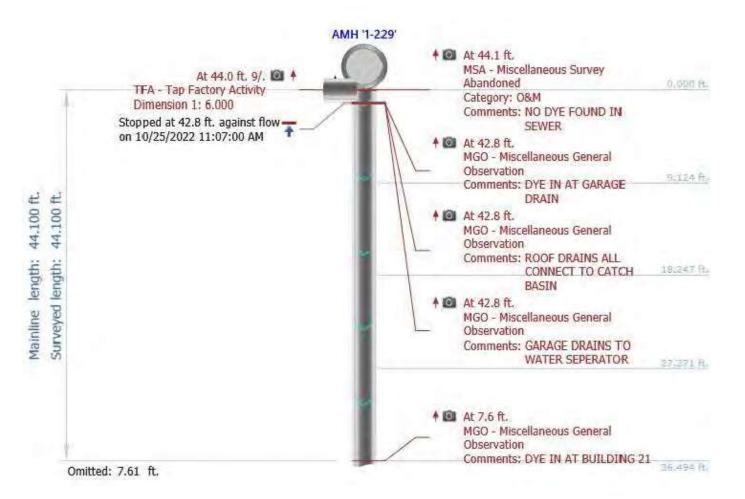
NOT IN SEWER

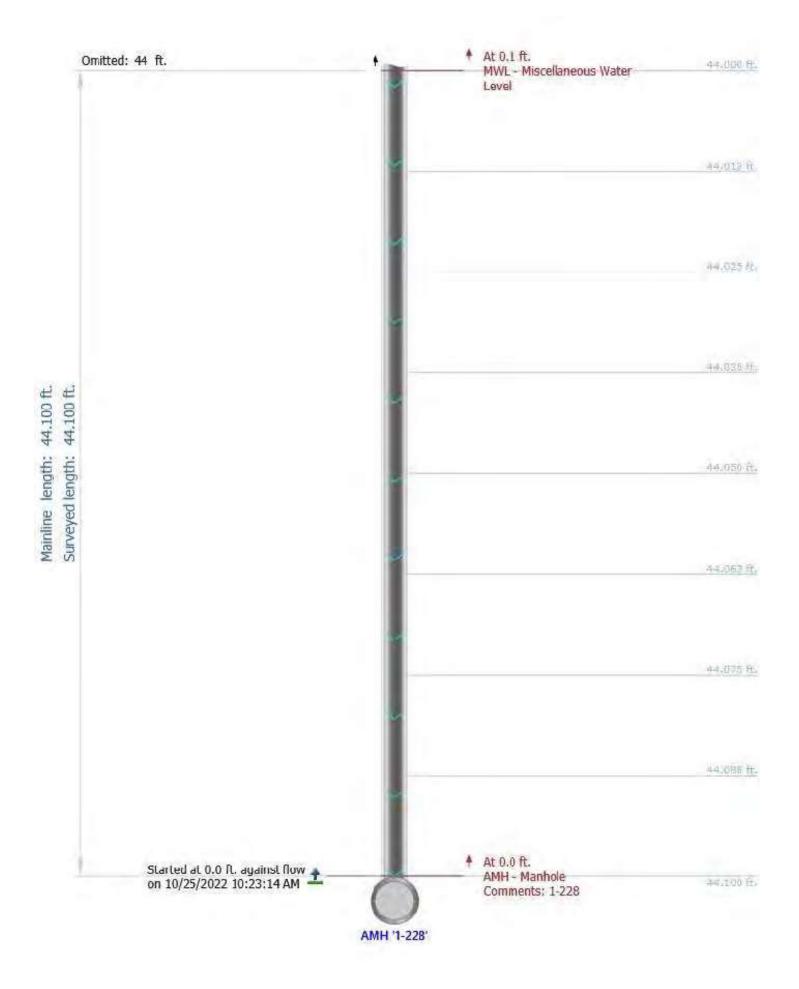
Property Address: 21 N. Stonington Road

NWMCC INSPECTION REPORT

20221025 10:23	Dry Weather/ Ground	Wet T.CRONK	U-0120-70308103	1-229-1-228				
Owner:	Customer:	Pre-cleaning:	Date cleaned:	Project name:				
		No Pre-Cleaning		MAR016-4				
City:	Street:	Location code:	Pipe use:	Drainage area:	Flow control:			
STONINGTON CT	N STONEING RD	TON	Sanitary Sewage Pipe					
Jpstream MH No:	D	ownstream MH No:	Direction:	Total length:	Length surveyed:			
1-229	1-	-228	U	44.100 ft.	44.100 ft.			
Purpose:	Pipe joint leng	th: Height:	Material:	Additional info:				
		8 in.	Polyvinyl Chloride	DYE TEST SURVEY				

	Structural:							O&M:				Over	all:	
Grade	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0				0	0							
2	0	0				0	0							
3	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
4	0	0				0	0							
5	0	0				0	0							





Inspection Photos

City: Street: Start date/time: Pipe segment ref.: STONINGTON CT N STONEINGTON RD 20221025 12:13 1-229-1-228

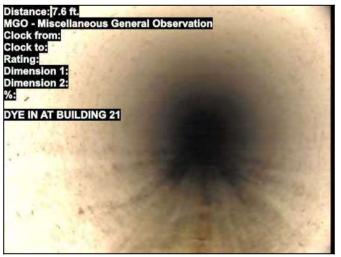


Photo: 1-229-1-228-20221025-102314-103519.JPG

At: 7.606 ft. MGO - Miscellaneous General Observation

Joint: No DYE IN AT BUILDING 21



Photo: 1-229-1-228-20221025-102314-105812.JPG

At: 42.833 ft. MGO - Miscellaneous General Observation

Joint: No DYE IN AT GARAGE DRAIN



Photo: 1-229-1-228-20221025-102314-105845.JPG

At: 42.833 ft. MGO - Miscellaneous General Observation

Joint: No ROOF DRAINS ALL CONNECT TO CATCH

BASIN



Photo: 1-229-1-228-20221025-102314-110313.JPG

At: 42.833 ft. MGO - Miscellaneous General Observation

Joint: No GARAGE DRAINS TO WATER SEPERATOR



Photo: 1-229-1-228-20221025-102314-103635.JPG
At: 44.034 ft. 9/. TFA - Tap Factory Activity

Joint: No



Photo: 1-229-1-228-20221025-102314-110628.JPG

At: 44.1 ft. MSA - Miscellaneous Survey Abandoned

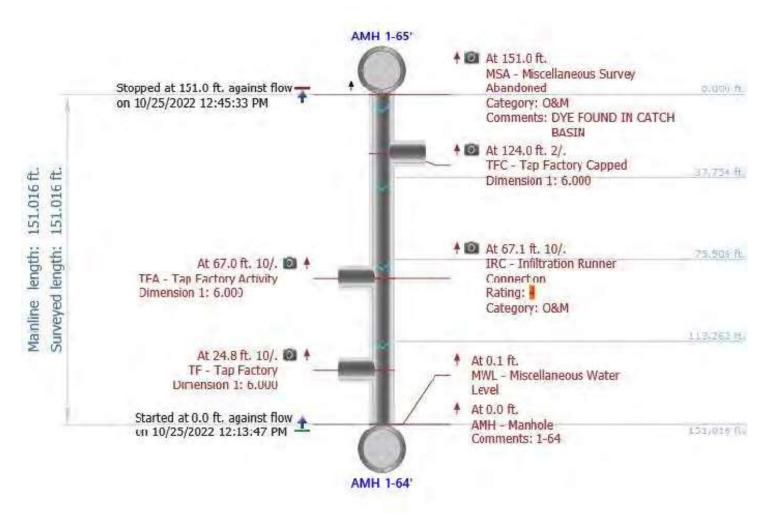
Joint: No NO DYE FOUND IN SEWER

Property Address: 35 Washington Street

NWMCC INSPECTION REPORT

Start date/time:	Weather:	Surveyed by:	Certificate number:	Pipe segment ref.:			
20221025 12:13	Dry Weather/W Ground	/et T.CRONK	U-0120-70308103	1-65-1-64			
Owner:	Customer:	Pre-cleaning:	Date cleaned:	Project name:			
		No Pre-Cleaning		MAR016-4			
City:	Street:	Location code:	Pipe use:	Drainage area:	Flow control:		
STONINGTON CT	WASHINGTON	ST	Sanitary Sewage Pipe				
Upstream MH No:	Dov	wnstream MH No:	Direction:	Total length:	Length surveyed:		
1-65	1-6	4	U	151.016 ft.	151.016 ft.		
Purpose:	Pipe joint length	n: Height:	Material:	Additional info:			
		12 in.	Vitrified Clay Pipe	DYE TEST AT BUI	LDING 35		

	Structural:							O&M:			Overall:			
Grade	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0				0	0							
2	0	0				0	0							
3	0	0	0	0000	0.0	0	0	4	4100	4.0	4	4.0	4.1	
4	0	0				0	4							
5	0	0				0	0							



Inspection Photos

City: Street: Start date/time: Pipe segment ref.:

STONINGTON CT WASHINGTON ST 20221025 12:13 1-65-1-64

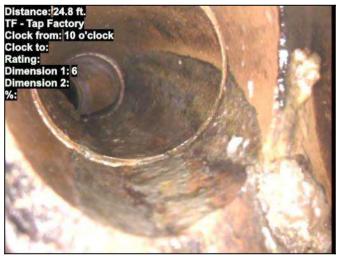


Photo: 1-65-1-64-20221025-121347-121659.JPG

At: 24.819 ft. TF - Tap Factory

Joint: No

10/.

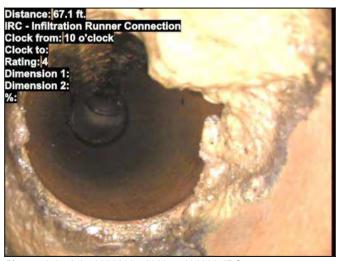


Photo: 1-65-1-64-20221025-121347-121820.JPG

At: 67.051 ft. IRC - Infiltration Runner Connection

10/.

Joint: No



Photo: 1-65-1-64-20221025-121347-121812.JPG At: 66.951 ft. TFA - Tap Factory Activity

10/.

Joint: No

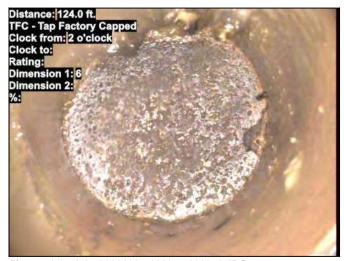


Photo: 1-65-1-64-20221025-121347-122051.JPG
At: 123.995 ft. TFC - Tap Factory Capped

2/.

Joint: No



Photo: 1-65-1-64-20221025-121347-124342.JPG

At: 151.016 ft. MSA - Miscellaneous Survey Abandoned

Joint: No DYE FOUND IN CATCH BASIN

