

# **Appendix G**

**2021 Video Inspection of GFL  
Environmental Leachate Collection  
Systems**



**REVOLUTION LANDFILL LP  
dba TERRAPURE, STONEY CREEK**

**2-21-0533  
PO# 4501005340**

**VIDEO INSPECTION 2021 LCS**

**65 GREEN MOUNTAIN ROAD  
STONEY CREEK, ON**

*INSPECTION REPORT  
08/25/2021*

CUSTOMER/OWNER: REVOLUTION LANDFILL LP dba TERRAPURE, STONEY CREEK  
P/O NO: 4501005340  
PROJECT: VIDEO INSPECTIONS 2021 LCS  
CITY: STONEY CREEK, ON  
LOCATION: 65 GREEN MOUNTIAN RD



PFC JOB NO. 21-0533  
UPDATED: 2021-08-27  
CONTACT: BRAD MULLIN- 905-745-2691

PSR / MEDIA LABEL / WO	AREA	MH	USE	PIPE SIZE (mm)	SURVEYED LENGTH (M)	MAT	DATE OF CCTV	DATE CODED	DATE COMPLETED	PIPE CONDITION COMMENTS/ REHABILITATION RECOMMENDATIONS
1	GWE	1	GW	200	42.7	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
2	GWE	2	GW	200	35	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
3	GWE	3	GW	200	44.6	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
4	CO15	1	LCS	150	41.2	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
5	CO15	2	LCS	150	49.3	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
6	CO15	3	LCS	150	47.4	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
7	CO15	4	LCS	150	20.3	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO BLOCKAGE
8	CO15	5	LCS	150	46.1	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
9	CO15	6	LCS	150	40	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
10	CO16	1	LCS	150	49.8	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
11	CO16	2	LCS	150	50.3	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
12	CO16	3	LCS	150	49.2	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
13	CO16	4	LCS	150	50	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
14	CO16	5	LCS	150	49.7	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
15	CO1	1	LCS	150	15.4	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO 100% BLOCKAGE
16	CO1	2	LCS	150	14.1	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO 100% BLOCKAGE
17	CO1	3	LCS	150	50.6	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
18	CO1	4	LCS	150	50	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
19	CO1	5	LCS	150	12	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO 100% BLOCKAGE
20	CO2	1	LCS	200	49.6	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
21	CO2	2	LCS	200	22.8	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO 100% BLOCKAGE
22	CO2	3	LCS	200	37	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
23	CO2	4	LCS	200	43.7	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE
24	CO2	5	LCS	200	33.5	HDP	2021-08-23	2021-08-26	2021-08-26	GOOD, S/A DUE TO DISTANCE



**PIPEFLO CONTRACTING CORP.**

111 FRID STREET

HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

**Surveyors name** PIPEFLMD   
 **Certificate Number** U-414-06020730   
 **System Owner** REVOLUTION LANDFILL LP   
 **Survey Customer** REVOLUTION LANDFILL LP   
 **Drainage Area**   
 **Sheet** 1

**P/O No.** 4501005340   
**Pipeline Segment Reference** 1   
**Date** 20210825   
**Time** 13:39   
**Location (Street Name and number)** GWE   
**Locality** STONEY CREEK

**Further Location details** 65 GREEN MOUNTAIN   
**Upstream Manhole Number** GWE-1   
**Rim to Invert**   
**Grade to Invert**   
**Rim to Grade**

**Downstream Manhole Number** 1   
**Rim to Invert**   
**Grade to Invert**   
**Rim to Grade**   
**Use of Sewer** Processes   
**Direction** Downstream   
**Flow Control** N   
**Height** 200

**Width**   
**Shape** Circular   
**Material** PVC   
**Ln. Method**   
**Pipe Joint Length**   
**Total Length**   
**Length Surveyed** 42.7   
**Year Laid**   
**Year Rehabilitated**   
**Tape / Media Number** 1

**Purpose** F   
**Sewer Category** A   
**Pre-Cleaning** No Pre-Cleaning   
**Cleaned**   
**Weather** Dry   
**Additional Information**

Distance (Meters)	Code		Continuous defect	Value			Joint	Circumferential Location		Image Ref.	Struct. Grade	O&M Grade	Remarks	
	Group/Descriptor	Modifier/severity		S/M/L				%	At / From					To
					1st	2nd								
0.0	AMH								AMH@0			Starting Manhole: GWE-1		
0.0	MWL					0			MWL@0					
4.6	DS	Z	S01			5	5	7	DSZ@4.6			OTHER		
13.6	DS	Z	F01			5	5	7	DSZ@13.6		26	OTHER		
30.0	MCU		S02						MCU@30					
42.7	MCU		F02						MCU@42.7		48			
42.7	MSA								MSA@0			DUE TO DISTANCE		

Segment	Structural									O & M						Overall								
	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index
1-GWE-1-1	0	0	0	0	0	0	0000		0	12	0	32	0	44	4826	3.1	0	12	0	32	0	44	4826	3.1



**PIPEFLO CONTRACTING CORP.**

111 FRID STREET

HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

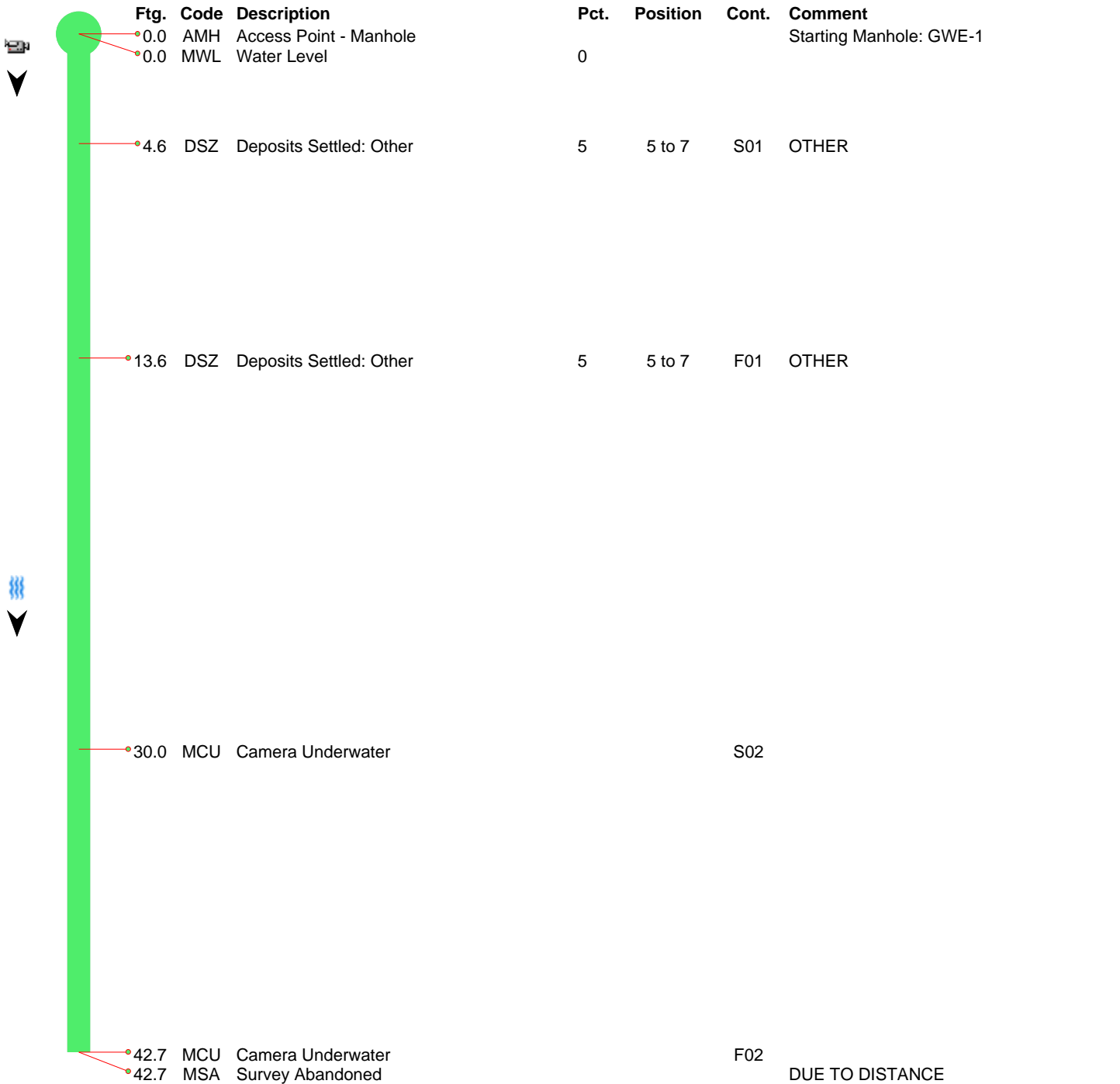
<b>Upstream MH</b> GWE-1	<b>Downstream MH</b> 1	<b>Size</b> 200	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b> 	<b>City</b> STONEY CREEK
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<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE	<b>Location Details</b> 65 GREEN MOUNTAIN
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<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 13:39	<b>Length Surveyed</b> 42.7
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**Additional Information**

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**PIPEFLO CONTRACTING CORP.**

111 FRID STREET

HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

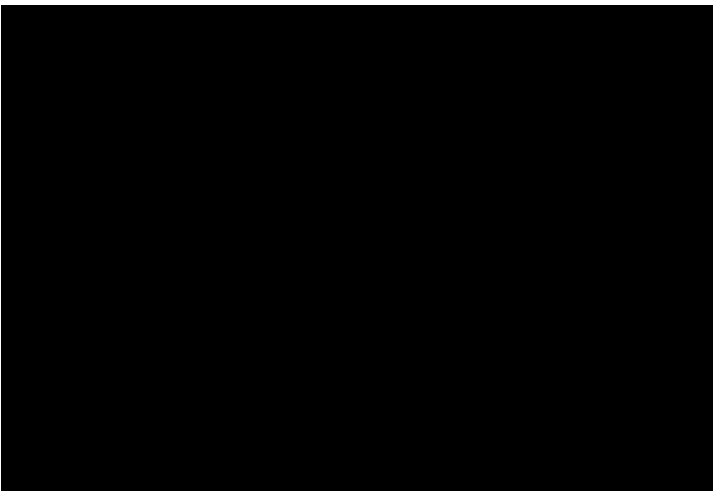
<b>Upstream MH</b> GWE-1	<b>Downstream MH</b> 1	<b>Size</b> 200	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b> 	<b>City</b> STONEY CREEK
<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE		<b>Location Details</b> 65 GREEN MOUNTAIN	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 13:39	<b>Length Surveyed</b> 42.7
<b>Additional Information</b> 					



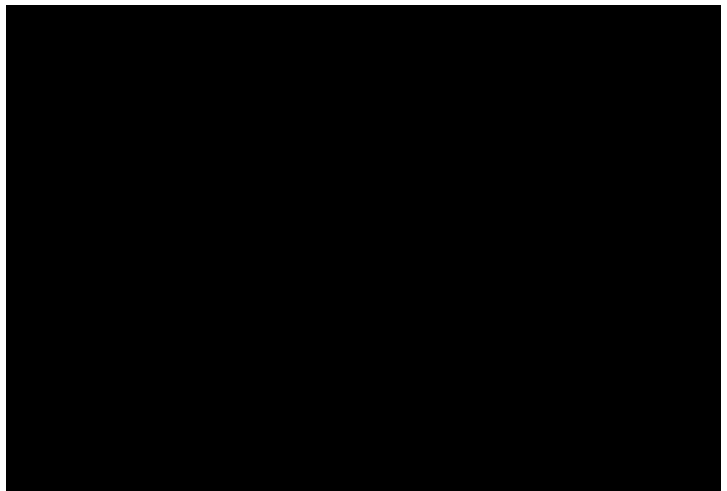
AMH - Access Point - Manhole @ 0.0 m.  
Starting Manhole: GWE-1



MWL - Water Level @ 0.0 m.



DSZ - Deposits Settled: Other @ 4.6 m.  
OTHER



DSZ - Deposits Settled: Other @ 13.6 m.  
OTHER



**PIPEFLO CONTRACTING CORP.**

111 FRID STREET

HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

<b>Upstream MH</b> GWE-1	<b>Downstream MH</b> 1	<b>Size</b> 200	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b> 	<b>City</b> STONEY CREEK
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<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE	<b>Location Details</b> 65 GREEN MOUNTAIN
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<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 13:39	<b>Length Surveyed</b> 42.7
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**Additional Information**

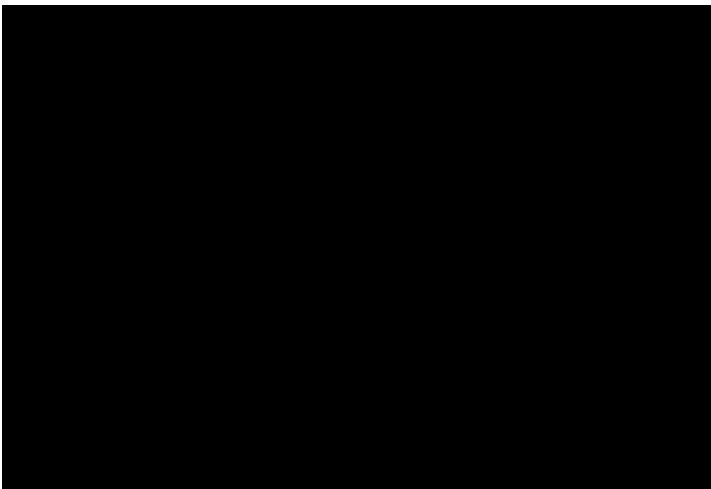
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MCU - Camera Underwater @ 30.0 m.



MCU - Camera Underwater @ 42.7 m.



MSA - Survey Abandoned @ 42.7 m.  
DUE TO DISTANCE



**PIPEFLO CONTRACTING CORP.**

111 FRID STREET

HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

**Surveyors name** PIPEFL0MD   
 **Certificate Number** U-414-06020730   
 **System Owner** REVOLUTION LANDFILL LP   
 **Survey Customer** REVOLUTION LANDFILL LP   
 **Drainage Area**   
 **Sheet** 1

**P/O No.** 4501005340   
**Pipeline Segment Reference** 2   
**Date** 20210825   
**Time** 13:43   
**Location (Street Name and number)** GWE   
**Locality** STONEY CREEK

**Further Location details** 65 GREEN MOUNTAIN   
**Upstream Manhole Number** GWE-2   
**Rim to Invert**   
**Grade to Invert**   
**Rim to Grade**

**Downstream Manhole Number** 2   
**Rim to Invert**   
**Grade to Invert**   
**Rim to Grade**   
**Use of Sewer** Processes   
**Direction** Downstream   
**Flow Control** N   
**Height** 200

**Width**   
**Shape** Circular   
**Material** PVC   
**Ln. Method**   
**Pipe Joint Length**   
**Total Length**   
**Length Surveyed** 35   
**Year Laid**   
**Year Rehabilitated**   
**Tape / Media Number** 2

**Purpose** F   
**Sewer Category** A   
**Pre-Cleaning** No Pre-Cleaning   
**Cleaned**   
**Weather** Dry   
**Additional Information**

Distance (Meters)	Code		Continuous defect	Value			Joint	Circumferential Location		Image Ref.	Struct. Grade	O&M Grade	Remarks	
	Group/Descriptor	Modifier/severity		S/M/L				%	At / From					To
					1st	2nd								
0.0	AMH								AMH@0				Starting Manhole: GWE-2	
0.0	MWL					0			MWL@0					
0.6	DS	Z	S01			5	5	7	DSZ@0.6				OTHER	
4.8	DS	Z	F01			5	5	7	DSZ@4.8		23		OTHER	
5.0	DS	Z	S02			10	5	7	DSZ@5				OTHER	
11.8	DS	Z	F02			10	5	7	DSZ@11.8		24		OTHER	
29.1	MCU		S03						MCU@29.1					
34.0	DS	Z	S04			5	5	7	DSZ@34				OTHER	
35.0	DS	Z	F04			5	5	7	DSZ@35		21		OTHER	
35.0	MCU		F03						MCU@35		44			
35.0	MSA								MSA@0				DUE TO DISTANCE	

Segment	Structural							O & M							Overall									
	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index
2-GWE-2-2	0	0	0	0	0	0	0000		0	16	0	16	0	32	4428	2.7	0	16	0	16	0	32	4428	2.7





**PIPEFLO CONTRACTING CORP.**

111 FRID STREET

HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

<b>Upstream MH</b> GWE-2	<b>Downstream MH</b> 2	<b>Size</b> 200	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b>	<b>City</b> STONEY CREEK
<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE		<b>Location Details</b> 65 GREEN MOUNTAIN	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 13:43	<b>Length Surveyed</b> 35
<b>Additional Information</b>					

	Ftg.	Code	Description	Pct.	Position	Cont.	Comment
	0.0	AMH	Access Point - Manhole				Starting Manhole: GWE-2
	0.0	MWL	Water Level	0			
	0.6	DSZ	Deposits Settled: Other	5	5 to 7	S01	OTHER
	4.8	DSZ	Deposits Settled: Other	5	5 to 7	F01	OTHER
	5.0	DSZ	Deposits Settled: Other	10	5 to 7	S02	OTHER
	11.8	DSZ	Deposits Settled: Other	10	5 to 7	F02	OTHER
	29.1	MCU	Camera Underwater			S03	
	34.0	DSZ	Deposits Settled: Other	5	5 to 7	S04	OTHER
	35.0	DSZ	Deposits Settled: Other	5	5 to 7	F04	OTHER
	35.0	MSA	Survey Abandoned			F03	DUE TO DISTANCE

<b>Upstream MH</b> GWE-2	<b>Downstream MH</b> 2	<b>Size</b> 200	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b>	<b>City</b> STONEY CREEK
<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE		<b>Location Details</b> 65 GREEN MOUNTAIN	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 13:43	<b>Length Surveyed</b> 35
<b>Additional Information</b>					



AMH - Access Point - Manhole @ 0.0 m.  
Starting Manhole: GWE-2

MWL - Water Level @ 0.0 m.



DSZ - Deposits Settled: Other @ 0.6 m.  
OTHER

DSZ - Deposits Settled: Other @ 4.8 m.  
OTHER

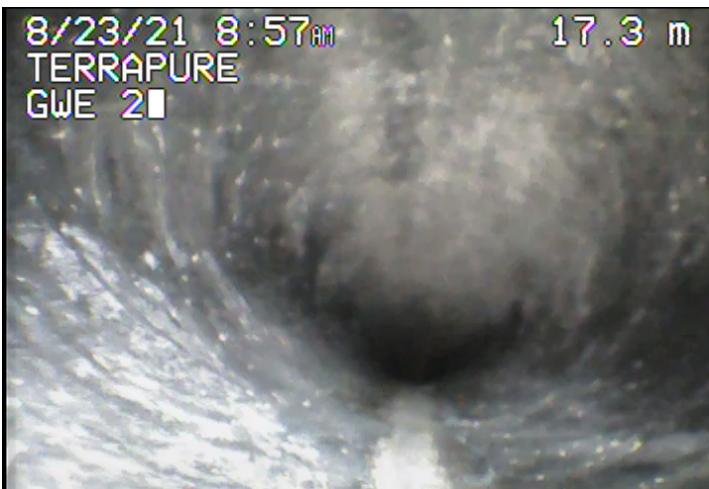
<b>Upstream MH</b> GWE-2	<b>Downstream MH</b> 2	<b>Size</b> 200	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b>	<b>City</b> STONEY CREEK
<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE		<b>Location Details</b> 65 GREEN MOUNTAIN	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 13:43	<b>Length Surveyed</b> 35
<b>Additional Information</b>					



DSZ - Deposits Settled: Other @ 5.0 m.  
OTHER



DSZ - Deposits Settled: Other @ 11.8 m.  
OTHER



MCU - Camera Underwater @ 29.1 m.



DSZ - Deposits Settled: Other @ 34.0 m.  
OTHER



**PIPEFLO CONTRACTING CORP.**

111 FRID STREET

HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

<b>Upstream MH</b> GWE-2	<b>Downstream MH</b> 2	<b>Size</b> 200	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b> 	<b>City</b> STONEY CREEK
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<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE	<b>Location Details</b> 65 GREEN MOUNTAIN
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<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 13:43	<b>Length Surveyed</b> 35
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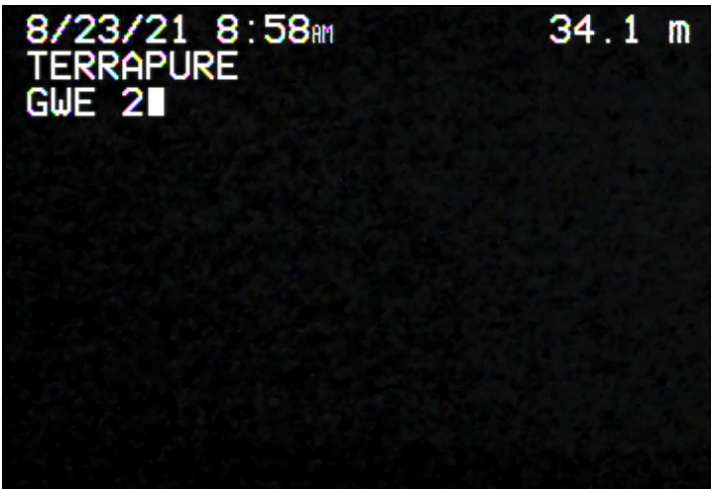
**Additional Information**

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DSZ - Deposits Settled: Other @ 35.0 m.  
OTHER

MCU - Camera Underwater @ 35.0 m.



MSA - Survey Abandoned @ 35.0 m.  
DUE TO DISTANCE



**PIPEFLO CONTRACTING CORP.**

111 FRID STREET  
HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

**Surveyors name** PIPEFLMD   
 **Certificate Number** U-414-06020730   
 **System Owner** REVOLUTION LANDFILL LP   
 **Survey Customer** REVOLUTION LANDFILL LP   
 **Drainage Area**   
 **Sheet** 1

**P/O No.** 4501005340   
**Pipeline Segment Reference** 3   
**Date** 20210825   
**Time** 13:48   
**Location (Street Name and number)** GWE   
**Locality** STONEY CREEK

**Further Location details** 65 GREEN MOUNTAIN   
**Upstream Manhole Number** GWE-3   
**Rim to Invert**   
**Grade to Invert**   
**Rim to Grade**

**Downstream Manhole Number** 3   
**Rim to Invert**   
**Grade to Invert**   
**Rim to Grade**   
**Use of Sewer** Processes   
**Direction** Downstream   
**Flow Control** N   
**Height** 200

**Width**   
**Shape** Circular   
**Material** PVC   
**Ln. Method**   
**Pipe Joint Length**   
**Total Length**   
**Length Surveyed** 44.6   
**Year Laid**   
**Year Rehabilitated**   
**Tape / Media Number** 3

**Purpose** F   
**Sewer Category** A   
**Pre-Cleaning** No Pre-Cleaning   
**Cleaned**   
**Weather** Dry   
**Additional Information**

Distance (Meters)	Code		Continuous defect	Value			Joint	Circumferential Location		Image Ref.	Struct. Grade	O&M Grade	Remarks	
	Group/Descriptor	Modifier/severity		S/M/L				%	At / From					To
					1st	2nd								
0.0	AMH								AMH@0			Starting Manhole: GWE-3		
0.0	MWL					0			MWL@0					
0.3	DS	Z	S01			5	5	7	DSZ@0.3			OTHER		
13.3	DS	Z	F01			5	5	7	DSZ@13.3		29	OTHER		
29.4	MCU								MCU@29.4		4			
29.7	DS	Z	S03			15	5	7	DSZ@29.7			OTHER		
44.6	DS	Z	F03			15	5	7	DSZ@44.6		310	OTHER		
44.6	MSA								MSA@44.6			DUE TO DISTANCE		

Segment	Structural									O & M						Overall								
	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index
3-GWE-3-3	0	0	0	0	0	0	0000		0	18	30	4	0	52	413A	2.6	0	18	30	4	0	52	413A	2.6



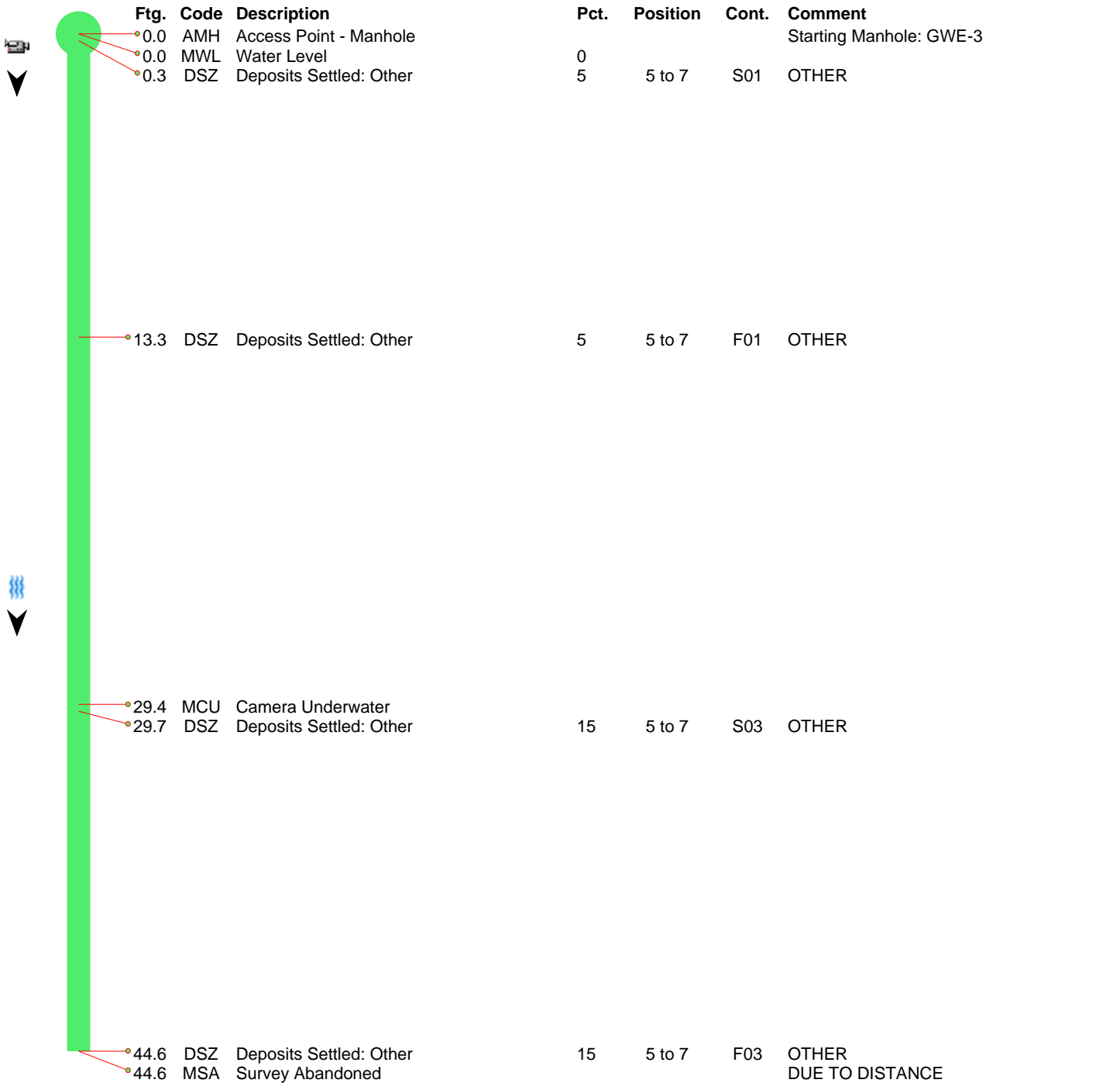
**PIPEFLO CONTRACTING CORP.**

111 FRID STREET

HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

<b>Upstream MH</b> GWE-3	<b>Downstream MH</b> 3	<b>Size</b> 200	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b>	<b>City</b> STONEY CREEK
<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE		<b>Location Details</b> 65 GREEN MOUNTAIN	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 13:48	<b>Length Surveyed</b> 44.6
<b>Additional Information</b>					



<b>Upstream MH</b> GWE-3	<b>Downstream MH</b> 3	<b>Size</b> 200	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b>	<b>City</b> STONEY CREEK
<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE		<b>Location Details</b> 65 GREEN MOUNTAIN	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 13:48	<b>Length Surveyed</b> 44.6
<b>Additional Information</b>					



AMH - Access Point - Manhole @ 0.0 m.  
Starting Manhole: GWE-3

MWL - Water Level @ 0.0 m.



DSZ - Deposits Settled: Other @ 0.3 m.  
OTHER

DSZ - Deposits Settled: Other @ 13.3 m.  
OTHER

<b>Upstream MH</b> GWE-3	<b>Downstream MH</b> 3	<b>Size</b> 200	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b>	<b>City</b> STONEY CREEK
<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE		<b>Location Details</b> 65 GREEN MOUNTAIN	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 13:48	<b>Length Surveyed</b> 44.6
<b>Additional Information</b>					



MCU - Camera Underwater @ 29.4 m.



DSZ - Deposits Settled: Other @ 29.7 m.  
OTHER



DSZ - Deposits Settled: Other @ 44.6 m.  
OTHER



MSA - Survey Abandoned @ 44.6 m.  
DUE TO DISTANCE





**PIPEFLO CONTRACTING CORP.**

111 FRID STREET

HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

**Surveyors name** PIPEFLOMD   
 **Certificate Number** U-414-06020730   
 **System Owner** REVOLUTION LANDFILL LP   
 **Survey Customer** REVOLUTION LANDFILL LP   
 **Drainage Area**   
 **Sheet** 1

**P/O No.** 4501005340   
**Pipeline Segment Reference** 4   
**Date** 20210825   
**Time** 13:53   
**Location (Street Name and number)** GWE   
**Locality** STONEY CREEK

**Further Location details** 65 GREEN MOUNTAIN   
**Upstream Manhole Number** CO15-1   
**Rim to Invert**   
**Grade to Invert**   
**Rim to Grade**

**Downstream Manhole Number** 1   
**Rim to Invert**   
**Grade to Invert**   
**Rim to Grade**   
**Use of Sewer** Processes   
**Direction** Downstream   
**Flow Control** N   
**Height** 150

**Width**   
**Shape** Circular   
**Material** PVC   
**Ln. Method**   
**Pipe Joint Length**   
**Total Length**   
**Length Surveyed** 41.2   
**Year Laid**   
**Year Rehabilitated**   
**Tape / Media Number** 4

**Purpose** F   
**Sewer Category** A   
**Pre-Cleaning** No Pre-Cleaning   
**Cleaned**   
**Weather** Dry   
**Additional Information**

Distance (Meters)	Code		Continuous defect	Value			Joint	Circumferential Location		Image Ref.	Struct. Grade	O&M Grade	Remarks	
	Group/Descriptor	Modifier/severity		S/M/L				%	At / From					To
					1st	2nd								
0.0	AMH								AMH@0			Starting Manhole: CO15-1		
0.0	MWL					0			MWL@0					
0.0	MCU		S02						MCU@0					
15.1	DS	Z	S01			10	5	7	DSZ@15.1			OTHER		
20.2	DS	Z	F01			10	5	7	DSZ@20.2		23	OTHER		
41.2	MCU		F02						MCU@41.2		427			
41.2	MSA								MSA@41.2			DUE TO DISTANCE		

Segment	Structural									O & M						Overall									
	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index		Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index
4-CO15-1-1	0	0	0	0	0	0	0000			0	6	0	108	0	114	4D23	3.8	0	6	0	108	0	114	4D23	3.8



**PIPEFLO CONTRACTING CORP.**

111 FRID STREET

HAMILTON, ONTARIO L8P 4M3

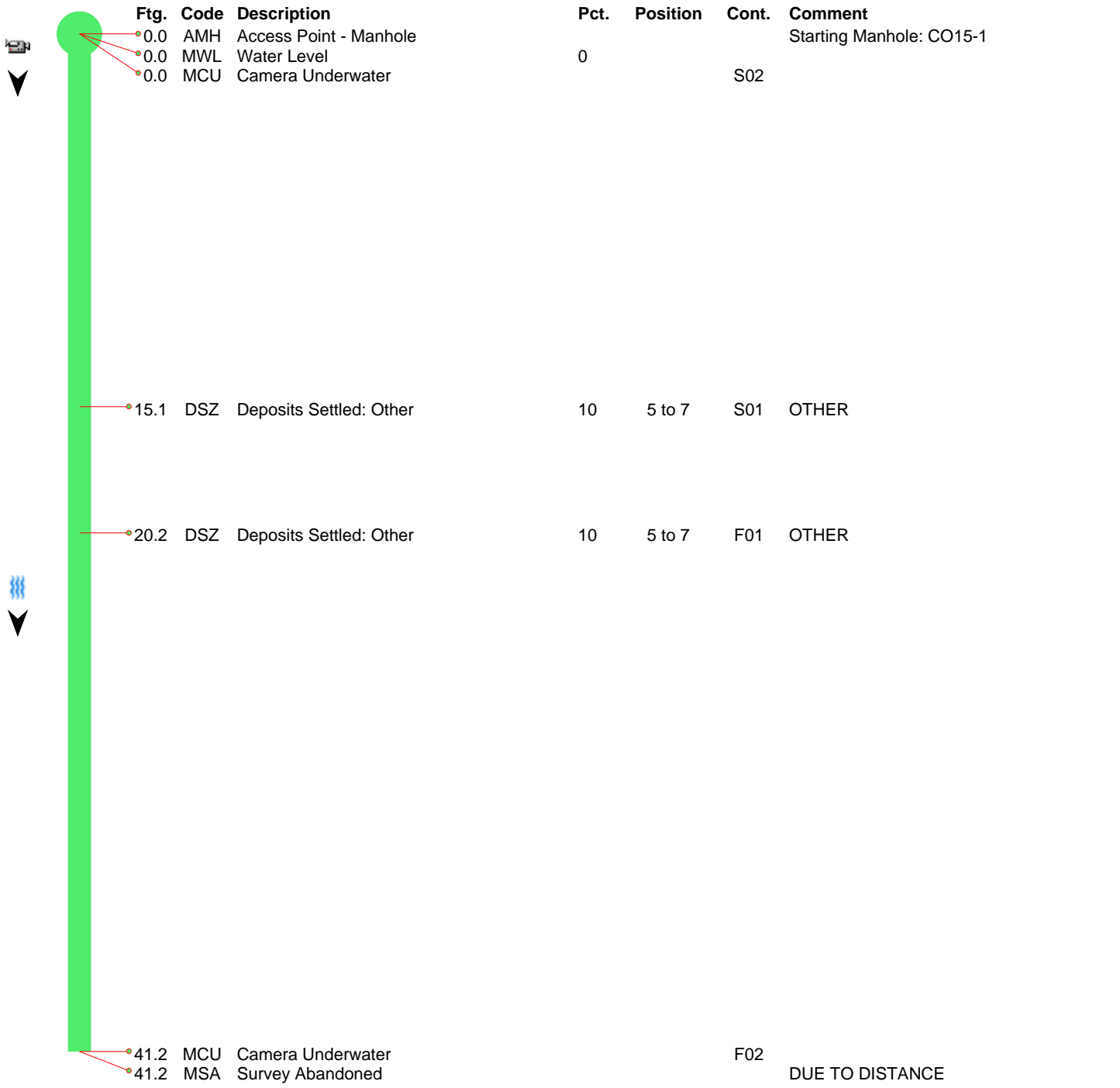
TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

<b>Upstream MH</b> CO15-1	<b>Downstream MH</b> 1	<b>Size</b> 150	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b>	<b>City</b> STONEY CREEK
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<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE	<b>Location Details</b> 65 GREEN MOUNTAIN
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<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 13:53	<b>Length Surveyed</b> 41.2
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**Additional Information**



<b>Upstream MH</b> CO15-1	<b>Downstream MH</b> 1	<b>Size</b> 150	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b>	<b>City</b> STONEY CREEK
<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE		<b>Location Details</b> 65 GREEN MOUNTAIN	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 13:53	<b>Length Surveyed</b> 41.2
<b>Additional Information</b>					



AMH - Access Point - Manhole @ 0.0 m.  
Starting Manhole: CO15-1



MWL - Water Level @ 0.0 m.



MCU - Camera Underwater @ 0.0 m.



DSZ - Deposits Settled: Other @ 15.1 m.  
OTHER

<b>Upstream MH</b> CO15-1	<b>Downstream MH</b> 1	<b>Size</b> 150	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b>	<b>City</b> STONEY CREEK
<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE		<b>Location Details</b> 65 GREEN MOUNTAIN	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 13:53	<b>Length Surveyed</b> 41.2
<b>Additional Information</b>					



DSZ - Deposits Settled: Other @ 20.2 m.  
OTHER

MCU - Camera Underwater @ 41.2 m.



MSA - Survey Abandoned @ 41.2 m.  
DUE TO DISTANCE



**PIPEFLO CONTRACTING CORP.**

111 FRID STREET  
HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

**Surveyors name** PIPEFLMD **Certificate Number** U-414-06020730 **System Owner** REVOLUTION LANDFILL LP **Survey Customer** REVOLUTION LANDFILL LP **Drainage Area** **Sheet** 1

**P/O No.** 4501005340 **Pipeline Segment Reference** 5 **Date** 20210825 **Time** 14:00 **Location (Street Name and number)** GWE **Locality** STONEY CREEK

**Further Location details** 65 GREEN MOUNTAIN **Upstream Manhole Number** CO15-2 **Rim to Invert** **Grade to Invert** **Rim to Grade**

**Downstream Manhole Number** 2 **Rim to Invert** **Grade to Invert** **Rim to Grade** **Use of Sewer** Processes **Direction** Downstream **Flow Control** N **Height** 150

**Width** **Shape** Circular **Material** PVC **Ln. Method** **Pipe Joint Length** **Total Length** **Length Surveyed** 49.3 **Year Laid** **Year Rehabilitated** **Tape / Media Number** 5

**Purpose** F **Sewer Category** A **Pre-Cleaning** No Pre-Cleaning **Cleaned** **Weather** Dry **Additional Information**

Distance (Meters)	Code		Continuous defect	Value			Joint	Circumferential Location		Image Ref.	Struct. Grade	O&M Grade	Remarks	
	Group/Descriptor	Modifier/severity		S/M/L				%	At / From					To
					1st	2nd								
0.0	AMH								AMH@0			Starting Manhole: CO15-2		
0.0	MWL					0			MWL@0					
15.9	DS	Z	S01			10	5	7	DSZ@15.9			OTHER		
20.2	DS	Z	F01			10	5	7	DSZ@20.2		23	OTHER		
20.2	MCU		S02						MCU@20.2					
49.3	MCU		F02						MCU@49.3		419			
49.3	MSA								MSA@49.3			DUE TO DISTANCE		

Segment	Structural									O & M						Overall								
	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index
5-CO15-2-2	0	0	0	0	0	0	0000		0	6	0	76	0	82	4B23	3.7	0	6	0	76	0	82	4B23	3.7



**PIPEFLO CONTRACTING CORP.**

111 FRID STREET

HAMILTON, ONTARIO L8P 4M3

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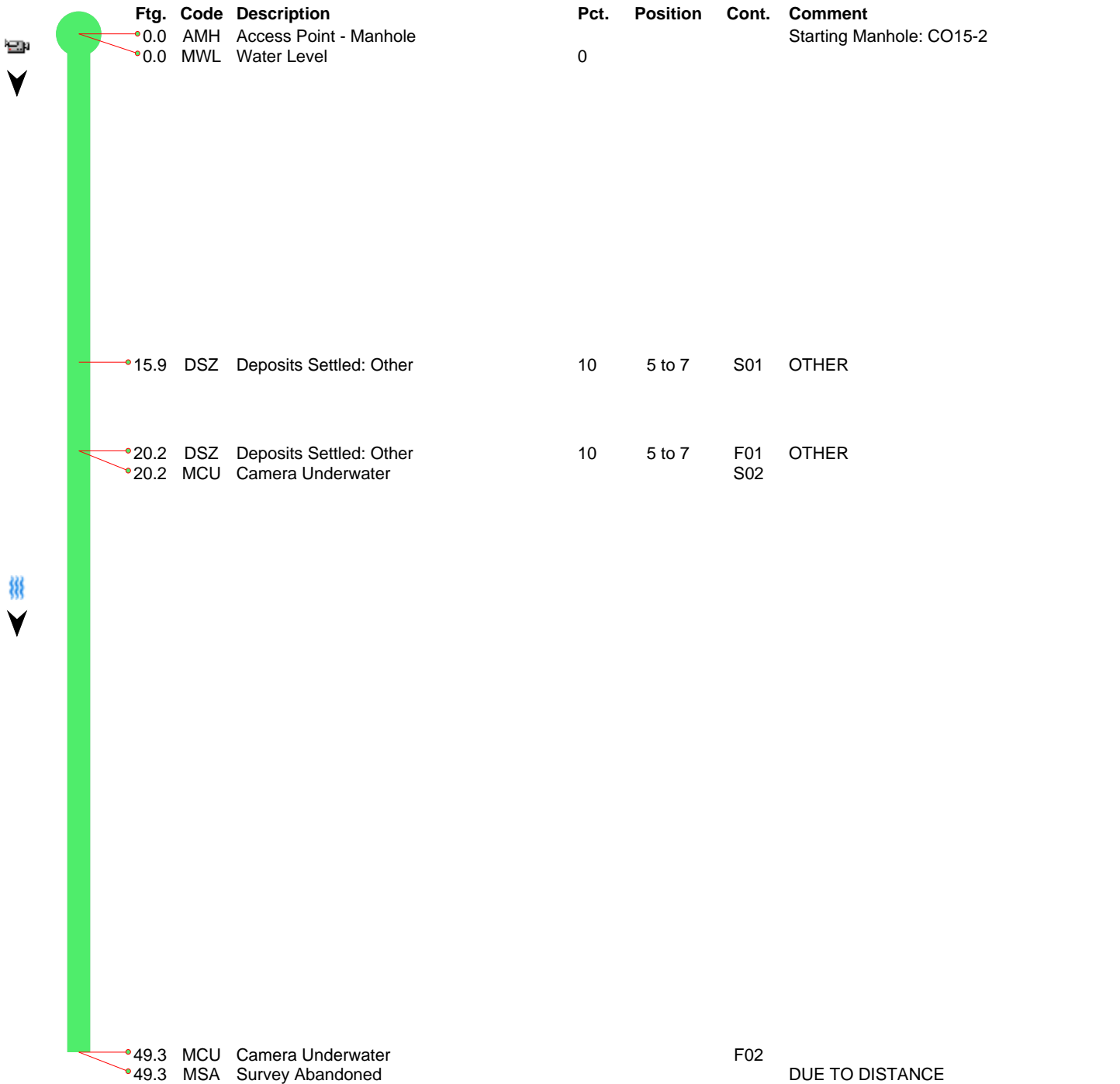
<b>Upstream MH</b> CO15-2	<b>Downstream MH</b> 2	<b>Size</b> 150	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b>	<b>City</b> STONEY CREEK
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<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE	<b>Location Details</b> 65 GREEN MOUNTAIN
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<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 14:00	<b>Length Surveyed</b> 49.3
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**Additional Information**

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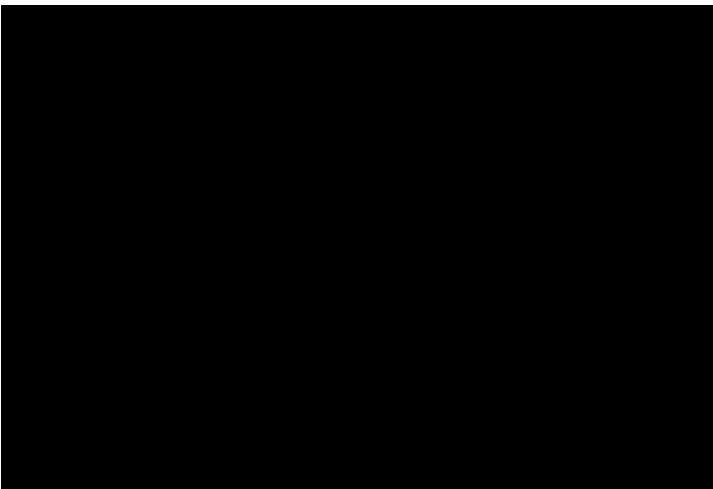
**PIPEFLO CONTRACTING CORP.**

111 FRID STREET

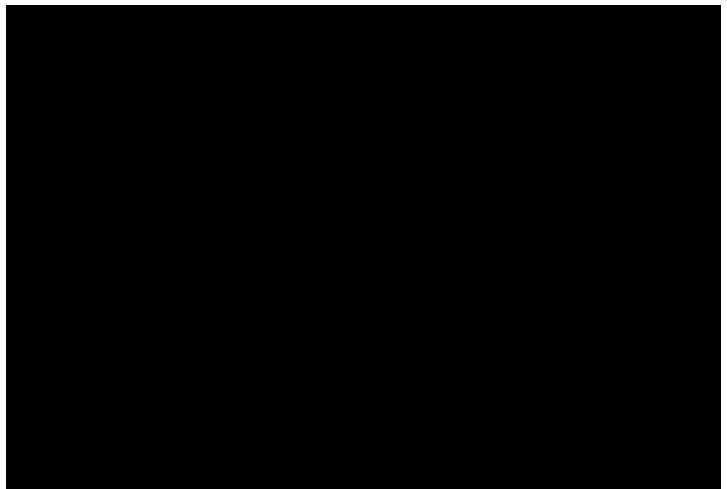
HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

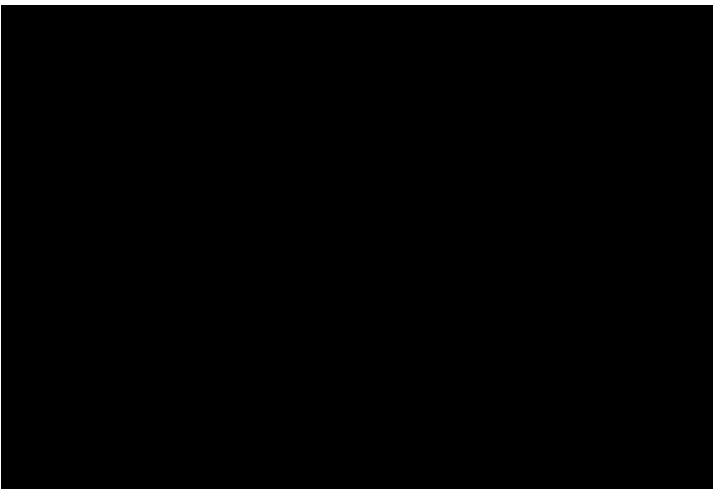
<b>Upstream MH</b> CO15-2	<b>Downstream MH</b> 2	<b>Size</b> 150	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b>	<b>City</b> STONEY CREEK
<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE		<b>Location Details</b> 65 GREEN MOUNTAIN	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 14:00	<b>Length Surveyed</b> 49.3
<b>Additional Information</b>					



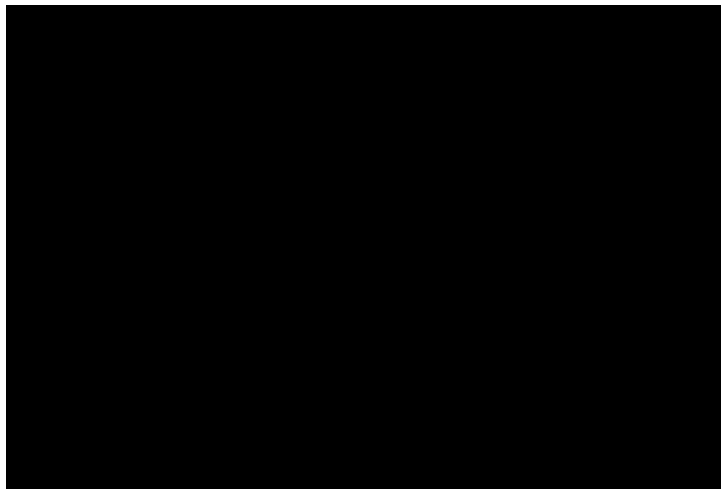
AMH - Access Point - Manhole @ 0.0 m.  
Starting Manhole: CO15-2



MWL - Water Level @ 0.0 m.



DSZ - Deposits Settled: Other @ 15.9 m.  
OTHER



DSZ - Deposits Settled: Other @ 20.2 m.  
OTHER



**PIPEFLO CONTRACTING CORP.**

111 FRID STREET

HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

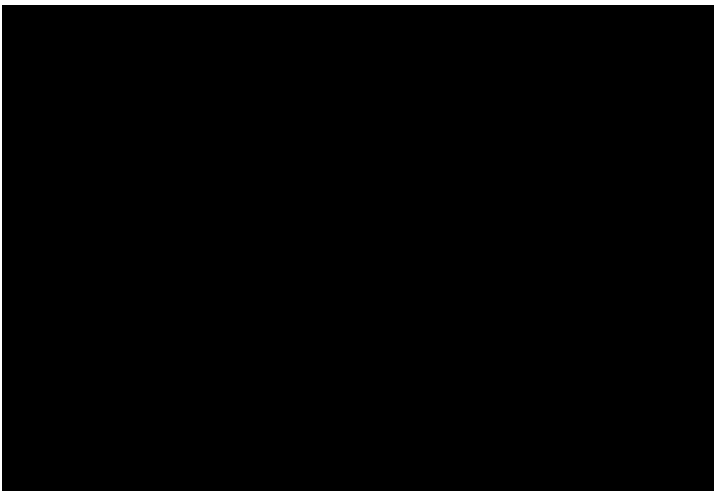
<b>Upstream MH</b> CO15-2	<b>Downstream MH</b> 2	<b>Size</b> 150	<b>Material</b> Polyvinyl Chloride	<b>Total Length</b> 	<b>City</b> STONEY CREEK
<b>Surveyor's Name</b> PIPEFLOMD	<b>Certificate Number</b> U-414-06020730	<b>Street Address</b> GWE		<b>Location Details</b> 65 GREEN MOUNTAIN	
<b>Direction</b> Downstream	<b>Purpose</b> Routine Assessment	<b>Weather</b> Dry	<b>Date</b> 20210825	<b>Time</b> 14:00	<b>Length Surveyed</b> 49.3
<b>Additional Information</b> 					



MCU - Camera Underwater @ 20.2 m.



MCU - Camera Underwater @ 49.3 m.



MSA - Survey Abandoned @ 49.3 m.  
DUE TO DISTANCE