



## Inspection report

Date: <b>7/15/2020</b>	Work Order:	Weather:	Surveyed By: <b>Thomas Whitby</b>	Certificate Number: <b>U-217-07006886</b>	Pipe Segment Ref.: <b>2228</b>
Year laid:	Pre-cleaning:	Direction: <b>Downstream</b>	Pipe Joint Length:	Total Length: <b>392.3'</b>	Length Surveyed: <b>392.3'</b>

City: <b>Montrose</b>	Drainage Area:	Upstream MH: <b>K10-32</b>
Street: <b>303 Pine View Dr</b>	Media Label:	Up Rim to Invert: <b>0.0</b>
Location Code:	Flow Control:	Downstream MH: <b>K10-30</b>
Location Details:	Sheet Number:	Down Rim to Invert: <b>0.0</b>
Pipe shape: <b>Circular</b>	Sewer Use:	Total gallons used: <b>0.0</b>
Pipe size: <b>8"</b>	Sewer Category: <b>SEC</b>	Joints passed: <b>0</b>
Pipe material: <b>Concrete Segments (unbolted)</b>	Purpose:	Joints failed: <b>0</b>
Lining Method:	Owner:	

Additional Info:

1:2320	Distance	Code	Observation	Counter	Photo	Grade
	0.00	AMH	Manhole / Start Inspection	00:01:07		
	0.00	MWL	Water Level, 15% of the vertical dimension	00:01:37		
	0.00	RMJ	Roots Medium Joint at 12 o'clock, 15% lost, within 8 inch	00:04:03		M3
	22.24	S01	MWLS Water Level, Sag in pipe, 75% of the vertical dimension, Start	00:05:27		
	29.17	S02	MCU Camera Underwater, Start	00:06:35		
	35.62	F02	MCU Camera Underwater, Finish	00:07:50		M4
	42.14	F01	MWLS Water Level, Sag in pipe, 75% of the vertical dimension, Finish	00:10:57		S4
	47.44	TB	Tap Break-In at 12 o'clock, 4inch dim, within 8 inch	00:12:00		
	90.92	TS	Tap Saddle at 1 o'clock, 4inch dim	00:14:38		
	93.61	TS	Tap Saddle at 11 o'clock, 4inch dim	00:15:36		
	110.41	TB	Tap Break-In at 2 o'clock, 4inch dim	00:16:37		
	185.58	TS	Tap Saddle at 2 o'clock, 4inch dim	00:19:38		
	246.15	S03	MWLS Water Level, Sag in pipe, 25% of the vertical dimension, Start	00:21:54		
	251.37	F03	MWLS Water Level, Sag in pipe, 25% of the vertical dimension, Finish	00:22:15		S2
	277.72	TB	Tap Break-In at 12 o'clock, 4inch dim	00:23:20		
	284.92	RMJ	Roots Medium Joint from 9 o'clock to 4 o'clock, 10% lost, within 8 inch	00:24:07		M3



## Inspection report

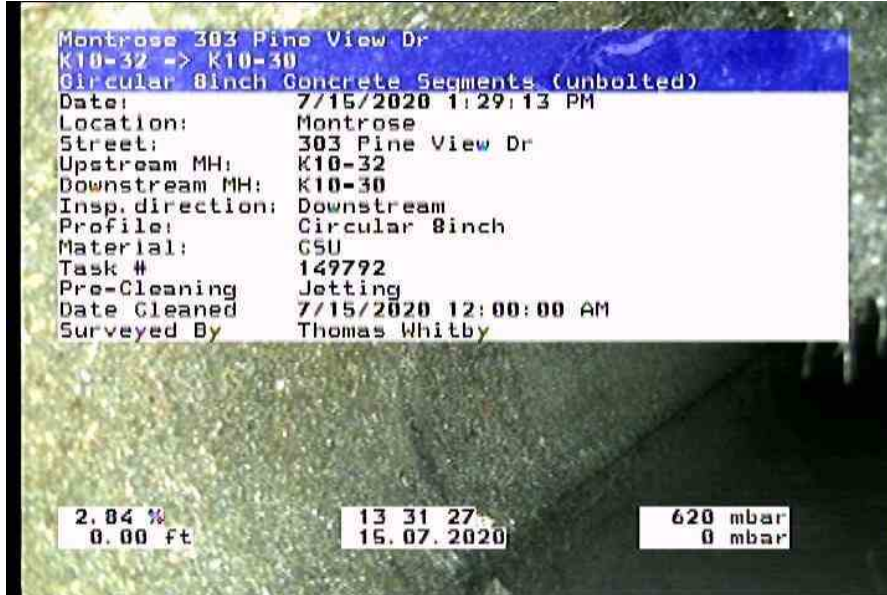
Date: <b>7/15/2020</b>	Work Order:	Weather:	Surveyed By: <b>Thomas Whitby</b>	Certificate Number: <b>U-217-07006886</b>	Pipe Segment Ref.: <b>2228</b>
Year laid:	Pre-cleaning:	Direction: <b>Downstream</b>	Pipe Joint Length:	Total Length: <b>392.3 '</b>	Length Surveyed: <b>392.3 '</b>

1:2320	Distance	Code	Observation	Counter	Photo	Grade	
	<u>329.64</u>	CM	Crack Multiple from 9 o'clock to 3 o'clock, within 8 inch	00:26:35		S3	
	<u>330.76</u>	TB	Tap Break-In at 1 o'clock, 4inch dim, within 8 inch	00:27:15			
	<u>351.24</u>	S04 MWLS	Water Level, Sag in pipe, 30% of the vertical dimension, Start	00:28:40			
	<u>359.27</u>	F04 MWLS	Water Level, Sag in pipe, 30% of the vertical dimension, Finish	00:29:21		S2	
	<u>363.65</u>	RFJ	Roots Fine Joint from 10 o'clock to 2 o'clock, within 8 inch	00:29:49		M1	
	<u>392.28</u>	AMH	Manhole / End Inspection	00:30:50			
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4431	4132	25.0	11.0	36.0	3.1	2.8	3.0



## Section Pictures - 7/15/2020 - 2228

City <b>Montrose</b>	Street <b>303 Pine View Dr</b>	Date <b>7/15/2020</b>	Pipe Segment Reference <b>2228</b>	Nr. <b>3</b>
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2228\_98e670ce-589e-40cd-8e39-b8e943dfcaa5\_20200715\_133651\_513.jpg, 00:01:07, 0.00ft Manhole



2228\_e53a7f1e-6a39-4ca0-87ec-dc04e11d0523\_20200715\_133714\_820.jpg, 00:01:37, 0.00ft Water Level, 15% of the vertical dimension



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2228\_51ffa686-4aab-4f44-b41b-f2d858aa5581\_20200715\_133941\_318.jpg, 00:04:03, 0.00ft  
Roots Medium Joint at 12 o'clock, 15% lost, within 8 inch



2228\_04a1fd56-3379-4f69-ac94-100553f8bd91\_20200715\_134103\_267.jpg, 00:05:27, 22.24ft  
Water Level, Sag in pipe, 75% of the vertical dimension, Start





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2228\_829eebb9-8273-4843-ba39-490ffc60a929\_20200715\_134214\_508.jpg, 00:06:35, 29.17ft  
Camera Underwater, Start



2228\_89acee2a-3ab7-4cac-94aa-02ee1a2cc9a1\_20200715\_134326\_564.jpg, 00:07:50, 35.62ft  
Camera Underwater, Finish



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2228\_2dbd9bcb-5e02-401b-99bb-f47ce28bdac8\_20200715\_134736\_863.jpg, 00:12:00, 47.44ft  
Tap Break-In at 12 o'clock, 4inch dim, within 8 inch



2228\_62f267f0-a545-457f-817c-58232b37ebe6\_20200715\_134748\_212.jpg, 00:12:00, 47.44ft  
Tap Break-In at 12 o'clock, 4inch dim, within 8 inch



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2228\_99ba0852-de46-4062-a44f-7c0fef3b7eec\_20200715\_135014\_771.jpg, 00:14:38, 90.92ft  
Tap Saddle at 1 o'clock, 4inch dim



2228\_82e42b2b-548a-4636-84be-03c1deecfad\_20200715\_135035\_057.jpg, 00:14:38, 90.92ft  
Tap Saddle at 1 o'clock, 4inch dim





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2228\_72d1972b-75ff-4086-8dc5-e230b10f25c8\_20200715\_135112\_731.jpg, 00:15:36, 93.61ft  
Tap Saddle at 11 o'clock, 4inch dim



2228\_b72f6a17-5c34-46ca-84f9-cf57fb2e9347\_20200715\_135124\_593.jpg, 00:15:36, 93.61ft  
Tap Saddle at 11 o'clock, 4inch dim





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2228\_143280a6-1a0a-47d7-871c-b024ee0b3055\_20200715\_135222\_709.jpg, 00:16:37, 110.41ft  
Tap Break-In at 2 o'clock, 4inch dim



2228\_19d856d2-ffb4-4093-a5b3-7435951c7bca\_20200715\_135232\_814.jpg, 00:16:37, 110.41ft  
Tap Break-In at 2 o'clock, 4inch dim



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2228\_dbf51b7f-7b05-4133-9008-7e1feaa3a52f\_20200715\_135514\_267.jpg, 00:19:38, 185.58ft  
Tap Saddle at 2 o'clock, 4inch dim



2228\_b4cf392b-cdc8-4e1b-ade7-98a0b1d6391a\_20200715\_135524\_453.jpg, 00:19:38, 185.58ft  
Tap Saddle at 2 o'clock, 4inch dim

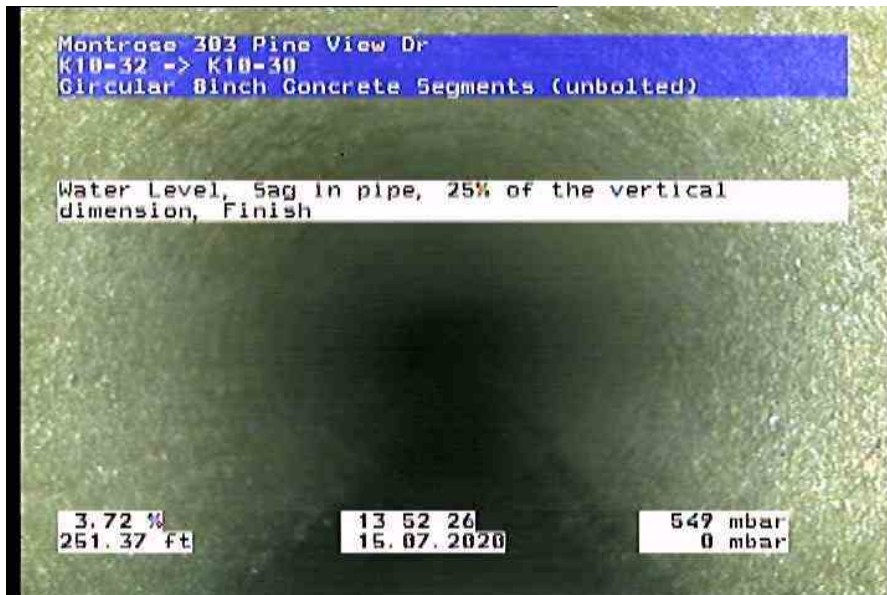


## Section Pictures - 7/15/2020 - 2228

City	Street	Date	Pipe Segment Reference	Nr.
Montrose	303 Pine View Dr	7/15/2020	2228	3



2228\_b5ab8652-b41e-49a4-885c-b8cb8b897273\_20200715\_135730\_358.jpg, 00:21:54, 246.15ft  
Water Level, Sag in pipe, 25% of the vertical dimension, Start



2228\_af8e0d99-17f3-452d-94d7-e15e95241195\_20200715\_135750\_899.jpg, 00:22:15, 251.37ft  
Water Level, Sag in pipe, 25% of the vertical dimension, Finish





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2228\_ca9c11ed-dbf4-47a3-bb99-549f4b9cb6a7\_20200715\_135855\_770.jpg, 00:23:20, 277.72ft  
Tap Break-In at 12 o'clock, 4inch dim



2228\_733bafb9-eb6c-4a29-ac94-b47fd3392dfd\_20200715\_135905\_318.jpg, 00:23:20, 277.72ft  
Tap Break-In at 12 o'clock, 4inch dim





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City	Street	Date	Pipe Segment Reference	Nr.
Montrose	303 Pine View Dr	7/15/2020	2228	3



2228\_ab9907ea-eb6a-4646-a853-5d6d51be4a70\_20200715\_135943\_645.jpg,00:24:07,  
284.92ft  
Roots Medium Joint from 9 o'clock to 4 o'clock, 10% lost, within 8 inch



2228\_a44f2908-a759-4ed5-8667-4e5d0e5d63cb\_20200715\_140211\_021.jpg,00:26:35,329.64ft  
Crack Multiple from 9 o'clock to 3 o'clock, within 8 inch



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2228\_727aeaf4-5976-4fad-988b-c57f114d482c\_20200715\_140250\_745.jpg, 00:27:15, 330.76ft  
Tap Break-In at 1 o'clock, 4inch dim, within 8 inch



2228\_2ecd7da6-1cf9-401b-951b-8c06611d8e08\_20200715\_140328\_184.jpg, 00:27:15, 330.76ft  
Tap Break-In at 1 o'clock, 4inch dim, within 8 inch



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City	Street	Date	Pipe Segment Reference	Nr.
Montrose	303 Pine View Dr	7/15/2020	2228	3



2228\_92337048-dfb6-4be7-b115-46b82867cd3f\_20200715\_140431\_314.jpg, 00:28:40, 351.24ft  
Water Level, Sag in pipe, 30% of the vertical dimension, Start



2228\_2be6c9c7-9d32-4617-8c23-442fe37856e7\_20200715\_140457\_288.jpg, 00:29:21, 359.27ft  
Water Level, Sag in pipe, 30% of the vertical dimension, Finish





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2228\_9a07a94a-6273-426a-a1f7-0255191898c6\_20200715\_140525\_848.jpg, 00:29:49, 363.65ft  
Roots Fine Joint from 10 o'clock to 2 o'clock, within 8 inch



2228\_f590738a-008a-4eba-a677-b417b985c4e2\_20200715\_140627\_005.jpg, 00:30:50, 392.28ft  
Manhole





## Section Inclination - 7/15/2020 - 2228

Pipe Segment Reference 2228	Date 7/15/2020	Time 12:00 AM	Surveyed By Thomas Whitby	City Montrose	Street 303 Pine View Dr	Direction of Survey Downstream	Length Surveyed 394.11 m
Shape Circular	Height 8 mm	Width 8 mm	Upstream MH K10-32	Downstream MH K10-30	Start altitude	End altitude -10.968m	Measured Inc -2.783 m

