



## Defect Listing

Pipe Segment Refere... <b>B4-4_B4-3</b>	City <b>Oliver Springs</b>	Street <b>Kansas ST</b>	Material <b>Concrete Pipe (non-...</b>	Location C... <b>Light High...</b>	Sewer Use <b>Sanitary</b>
Upstream MH <b>B4-4</b>	Total Length <b>213.2</b>	Year Laid	Shape <b>Circular</b>	Location Details	
DS Manhole <b>B4-3</b>	Length surveyed <b>213.2</b>	Year Renewed	Height <b>8</b>	Width <b>8</b>	Pipe Joint... <b>4</b>

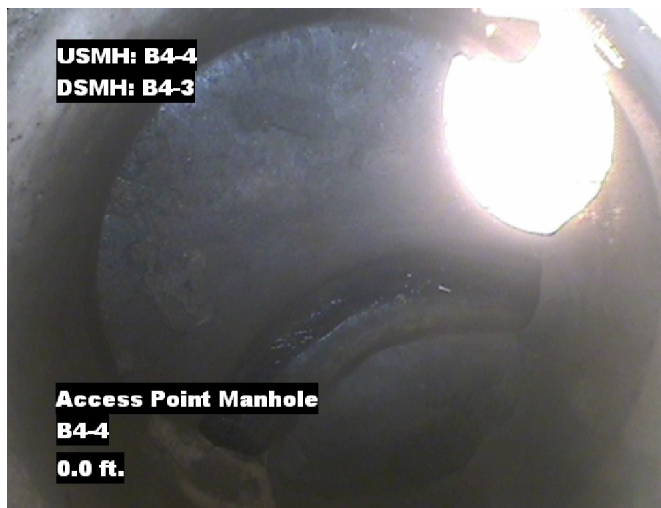
SPR <b>3</b>	MPR <b>16</b>	PO Number <b>4397-03</b>	Customer <b>GRW</b>
SPRI <b>3</b>	MPRI <b>2</b>	Work Order <b>4397-02</b>	Purpose <b>Pre-Rehabilitation Survey</b>
QSR <b>3100</b>	QMR <b>2800</b>		
OPR <b>19</b>	Surveyed By <b>Charlie Gordon</b>	Direction <b>Downstream</b>	Date <b>20150904</b>
OPRI <b>2.1</b>	Certificate Number <b>U-615-07000491</b>	Pre-Cleaning <b>Jetting</b>	Time <b>13:05</b>
	Date Cleaned <b>20150904</b>	End Time <b>13:18</b>	Weather <b>Dry</b>
		Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole				0	<input type="checkbox"/>			
Remarks: B4-4									
0.0 ft.	Water Level				5	<input type="checkbox"/>			
6.0 ft.	Tap Factory Made Active		6		0	<input type="checkbox"/>	3		
29.2 ft.	Water Level Sag	S01			10	<input type="checkbox"/>			2
48.2 ft.	Water Level Sag	F01			10	<input type="checkbox"/>			2
57.5 ft.	Water Level Sag	S02			10	<input type="checkbox"/>			2
74.0 ft.	Water Level Sag	F02			10	<input type="checkbox"/>			2
92.2 ft.	Water Level Sag	S03			10	<input type="checkbox"/>			2
99.1 ft.	Water Level Sag	F03			10	<input type="checkbox"/>			2
164.7 ft.	Hole				0	<input checked="" type="checkbox"/>	10		3
167.0 ft.	Tap Factory Made		6		0	<input type="checkbox"/>	12		
210.6 ft.	Water Level				5	<input type="checkbox"/>			
213.2 ft.	Access Point Manhole				0	<input type="checkbox"/>			
Remarks: B4-3									

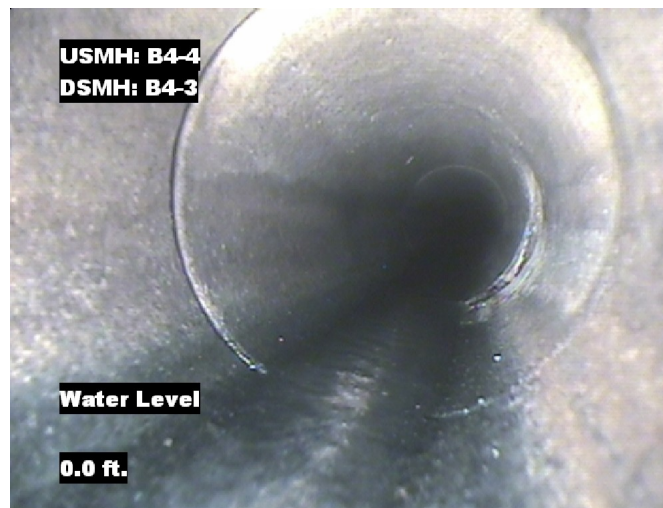


## Image Report 4/Page

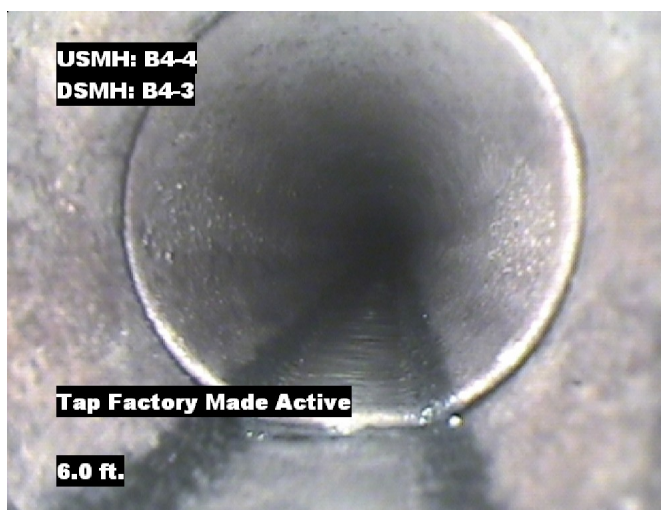
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
B4-4_B4-3	Oliver Springs	Kansas ST	Concrete Pipe (non-...	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
B4-4	213.2		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
B4-3	213.2		8	8	4



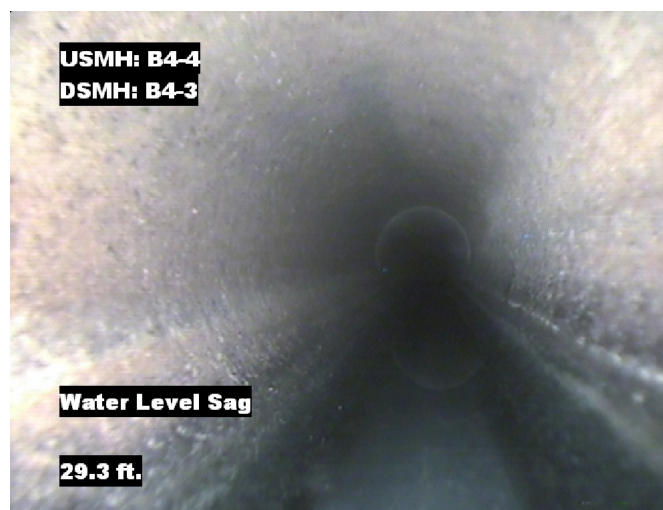
Distance: 0.0 ft. Grade: 0  
Condition: Access Point Manhole  
Remarks: B4-4



Distance: 0.0 ft. Grade: 0  
Condition: Water Level  
Remarks: N/A



Distance: 6.0 ft. Grade: 0  
Condition: Tap Factory Made Active  
Remarks: N/A

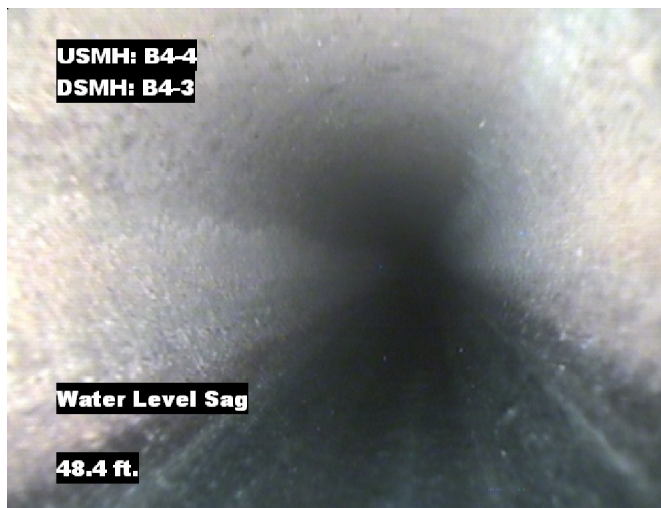


Distance: 29.2 ft. Grade: 2  
Condition: Water Level Sag  
Remarks: N/A

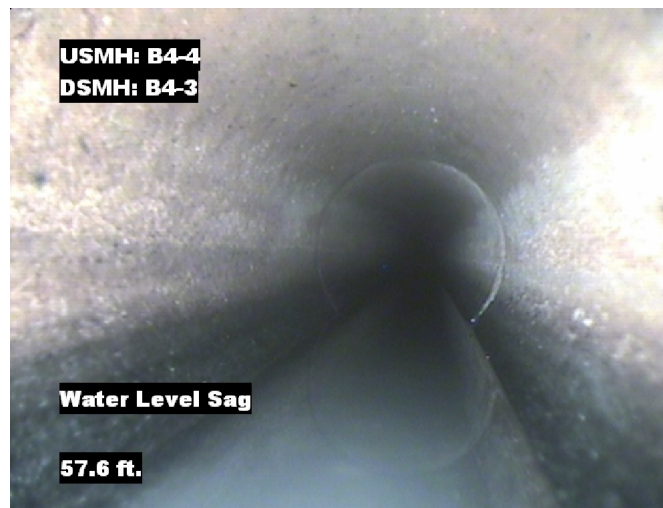


## Image Report 4/Page

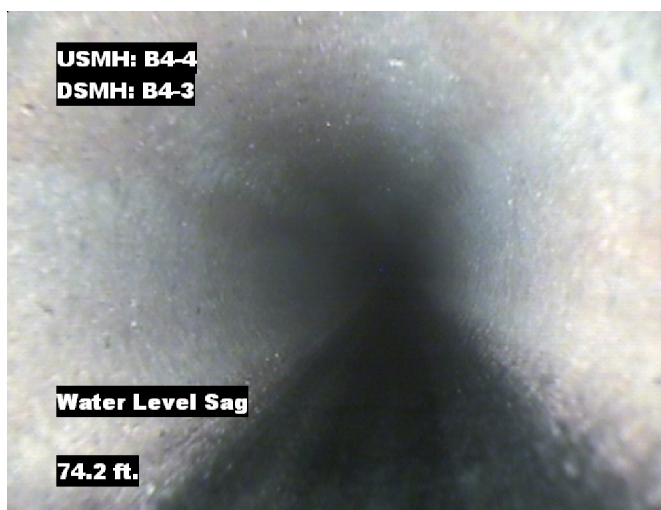
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
B4-4_B4-3	Oliver Springs	Kansas ST	Concrete Pipe (non-...	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
B4-4	213.2		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
B4-3	213.2		8	8	4



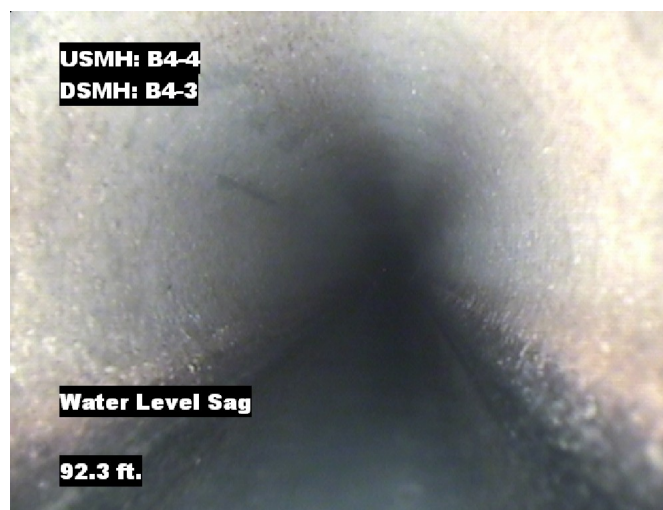
Distance: 48.2 ft. Grade: 2  
Condition: Water Level Sag  
Remarks: N/A



Distance: 57.5 ft. Grade: 2  
Condition: Water Level Sag  
Remarks: N/A



Distance: 74.0 ft. Grade: 2  
Condition: Water Level Sag  
Remarks: N/A



Distance: 92.2 ft. Grade: 2  
Condition: Water Level Sag  
Remarks: N/A



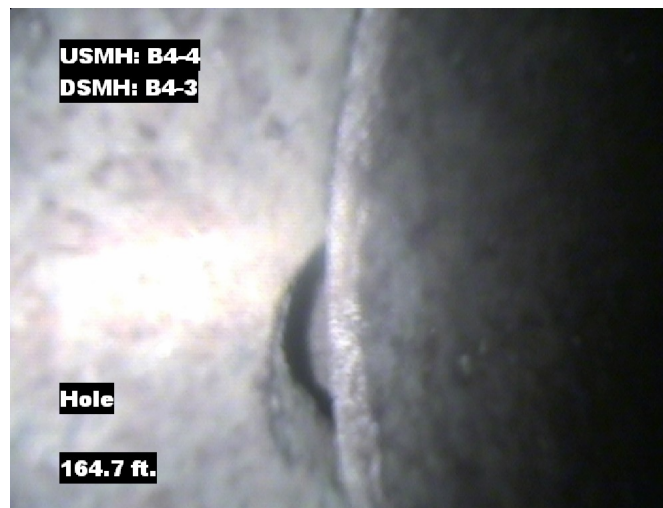


## Image Report 4/Page

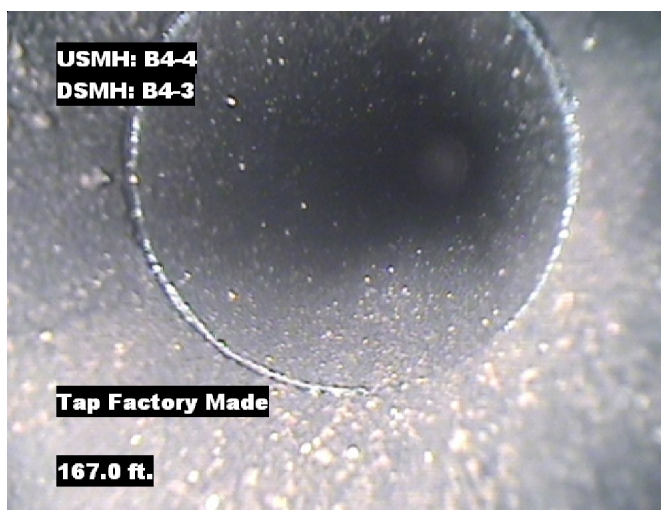
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
<b>B4-4_B4-3</b>	<b>Oliver Springs</b>	<b>Kansas ST</b>	<b>Concrete Pipe (non-...</b>	<b>Light High...</b>	<b>Sanitary</b>
<b>Upstream MH</b>	Total Length	Year Laid	<b>Shape</b>	Location Details	
<b>B4-4</b>	<b>213.2</b>		<b>Circular</b>		
<b>DS Manhole</b>	<b>Length surveyed</b>	Year Renewed	<b>Height</b>	Width	Pipe Joint...
<b>B4-3</b>	<b>213.2</b>		<b>8</b>	<b>8</b>	<b>4</b>



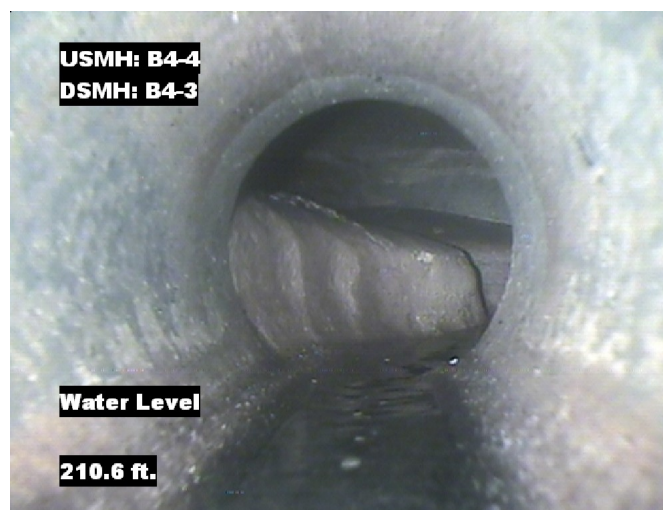
Distance: 99.1 ft. Grade: 2  
Condition: Water Level Sag  
Remarks: N/A



Distance: 164.7 ft. Grade: 3  
Condition: Hole  
Remarks: N/A



Distance: 167.0 ft. Grade: 0  
Condition: Tap Factory Made  
Remarks: N/A

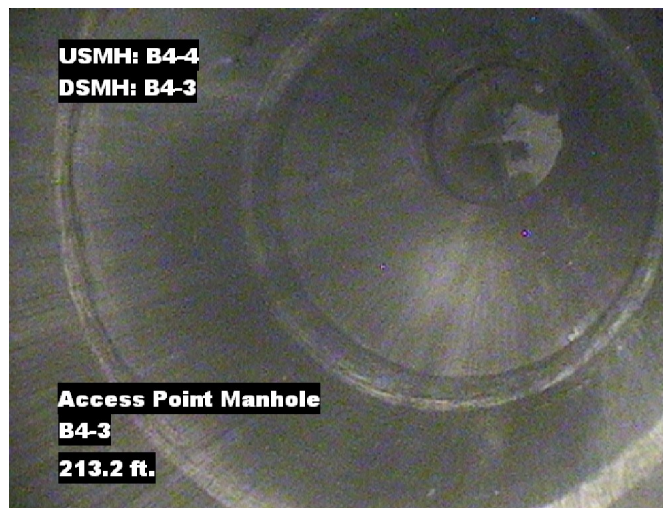


Distance: 210.6 ft. Grade: 0  
Condition: Water Level  
Remarks: N/A



## Image Report 4/Page

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
<b>B4-4_B4-3</b>	<b>Oliver Springs</b>	<b>Kansas ST</b>	<b>Concrete Pipe (non-...</b>	<b>Light High...</b>	<b>Sanitary</b>
<b>Upstream MH</b>	Total Length	Year Laid	<b>Shape</b>	Location Details	
<b>B4-4</b>	<b>213.2</b>		<b>Circular</b>		
<b>DS Manhole</b>	<b>Length surveyed</b>	Year Renewed	<b>Height</b>	Width	Pipe Joint...
<b>B4-3</b>	<b>213.2</b>		<b>8</b>	<b>8</b>	<b>4</b>



Distance: 213.2 ft. Grade: 0  
Condition: Access Point Manhole  
Remarks: B4-3



Pipe Segment Refere... B4-4_B4-3	City Oliver Springs	Street Kansas ST	Material Concrete Pipe (non-...		Location C... Light High...	Sewer Use Sanitary
Upstream MH B4-4	Total Length 213.2	Year Laid	Shape Circular		Location Details	
DS Manhole B4-3	Length surveyed 213.2	Year Renewed	Height 8	Width 8	Pipe Joint... 4	
SPR 3	MPR 16	PO Number 4397-03		Customer GRW		
SPRI 3	MPRI 2	Work Order 4397-02		Purpose		
QSR 3100	QMR 2800			Pre-Rehabilitation Survey		
OPR 19	Surveyed By Charlie_Gordon	Direction Downstream	Date 20150904		Media label	
OPRI 2.1	Certificate Number U-615-07000491	Pre-Cleaning Jetting	Time 13:05		Weather Dry	
Date Cleaned 20150904			End Time 13:18		Additional Info	

Normal Defects			Structural Ratings			O & M Ratings			Combined Ratings		
			Grade Rating	No. Occur.	Rating	Grade Rating	No. Occur.	Rating	Grade Rating	No. Occur.	Rating
Continuous Defects			1	0	0	1	0	0	1	0	0
			2	0	0	2	0	0	2	0	0
			3	1	3	3	0	0	3	1	3
			4	0	0	4	0	0	4	0	0
			5	0	0	5	0	0	5	0	0
Code	ID	Length	0	0	0	2	4	8	2	4	8
MWLS	F01	19.0									
MWLS	F02	16.5									
MWLS	F03	6.9									
			Subtotals	1		Subtotals	8		Subtotals	9	
SUMMARY			Pipe Rating		3	Pipe Rating		16	Overall Pipe Rating		19
			Structural Index		3.0	O&M Index		2.0	Overall Index		2.1
			Str. Quick Rating		3100	O&M Quick Rating		2800	Ovrl. Quick Rating		3128