Appendix A:

Televising Reports



RJN

Mason PR

Upstream 18663

Surveyors name	9	Certificate No	umber	System Owner		Survey Custo	mer	Drainage Area St. Mary's	Engineer
Project CITY OF JOLIET	P/O No			Date Tim 20160524 09	e 0:14	Location (Street MASON AVE	: Name and number)	Locality JOLIET	
Work Order Job JOL010-19	#	Pipeline Segme	ent Referenc	upst	ream Manhol	e Number	Rim to Invert	Grade to Invert	Rim to Grade
Downstream Ma	nhole Num	nber Rim	to Invert	Grade to Invert	Rim t	to Grade	Use of Sewer Sanitary	Direction Flow Co	ontrol Height
	nape Circular	Material Vitrified Clay Pipe	Ln. Method	Pipe Joint Length	Total Len 280.5	Length Sur 100.8	rveyed Counter	Start Counter End	Tape / Media Number SM-3
Purpose Maintenance Related	Sewer		Cleaning tting		eather ry	Additional Infor	rmation		TV Truck ID T.V. 194
		Ftg	g. Code	Description			PositionCo	mment	
Y		0.	.0 AMH	Access Point - Man	ihole		Sta	arting Manhole: 1866	3 PVC STUB
	J	0.	.0 MWL	Water Level					
6	1	• 17.	.2 TFA	Tap, Factory Made	: Active		3		
		28.	.6 TFA	Tap, Factory Made	: Active		9		
		° 80.	.1 CL	Crack Longitudinal			12		
#		° 80.	.1 CL	Crack Longitudinal			6		
Y		°81.	.2 TFA	Tap, Factory Made	: Active		9		
		» 82.	.4 CL	Crack Longitudinal			3		
		° 86.	.5 TFA	Tap, Factory Made	: Active		3		
Contract of the Contract of th		88.	.3 MWLS	Water Level: Sag					
		95.	.3 MGO	General Observation	on		PIF	PE COMPRESSED	



RJN

Upstream 18663

Surveyors name MCCARTHY	Certificate Number	System Owner	Survey Customer RJN	Drainage Area St. Mary's	Engineer
Project P/O CITY OF JOLIET	No.	Date Time 20160524 09:14	Location (Street Name and MASON AVE	number) Locality JOLIET	
Work Order Job # JOL010-19	Pipeline Segment Reference	Upstream Manh 18663	nole Number Rim to I	nvert Grade to Invert	Rim to Grade
Downstream Manhole N	Rim to Invert 6.9	Grade to Invert Ri	m to Grade Use of Sev Sanitary		ontrol Height
Width Shape Circular	Material Ln. Method Vitrified Clay Pipe	Pipe Joint Length Total L 280.9		Counter Start Counter End DVD	Tape / Media Number SM-3
Purpose Sew Maintenance Related	Pre-Cleaning Jetting	Cleaned Weather Dry	Additional Information		TV Truck ID T.V. 194
₩	Ftg. Code D	escription	Pos	ition Comment	
**			Mason Pf	₹	
	9100.8 XP P	ipe Collapsed	/	CLOSE TO COLLAPS	Ε.
6.6	/°100.8 MSA S	urvey Abandoned		CRAWLER CAN NOT	PASS THROUGH.



RJN

Mason PR

Upstream 18663

Circular Vitrified 280.5 33.8 DVD SM-3 Purpose Sewer Category Pre-Cleaning Cleaned Weather Additional Information TV Truck					1854	Ю
Troject P/O No. Date Time Location (Street Name and number) Locality JOLIET JOL	Surveyors name MCCARTHY		System Owner			Engineer
Cloud or der Job # Pipeline Segment Reference Upstream Manhole Number Rim to Invert Rim to Grade Cloud-19 18200 18		-	Data Time	Lasting (Street Name and number)		
ork Order Job # Pipeline Segment Reference			20160525 10:07			
wastream Manhole Number 7.5. Grade to Invert Rim to Grade Saver Direction Flow Control Height 58-69 dth Shape Material Circular Virified Circular Virified Circular Virified Dry Pipe Joint Length Total Length Length Surveyed Counter Start Counter End Tape / Media Num SM-3 rpose Sewer Category Pre-Cleaning Cleaned Weather Additional Information TV Truck eleited Ftg. Code Description Position Comment Total Length Surveyed Counter Start Counter End Tape / Media Num SM-3 TV Truck distinged Dry Pipe Sewer Category Pre-Cleaning Cleaned Weather Additional Information TV Truck eleited TV Truck Starting Manhole: 18546			20100323	IVIAGOIN	JOLILI	
Oction-19 18200 18663 6 6 remainder Manhole Number 87.5 Grade to Invert Rim to Grade Saver Direction Flow Control Height Safe Sanitary Upstream 122 dth Shape Material Circular Virified Circular Sim-3 Saver Category Pre-Cleaning Gleaned Weather Additional Information TV Truck Related Fig. Code Description Position Comment Fig. Code Description Position Comment Ty Truck Sariting Manhole: 18546	ork Order Job #	Pipeline Segment Reference	Upstream Manhole	Number Rim to Invert	Grade to Invert	Rim to Grade
tith Shape Material Virified Circular Virified Circular Virified Circular Virified Clay Pipe Joint Length Total Length Surveyed Counter Start DVD SM-3 Sewer Category Pre-Cleaning Jetting DvD Ftg. Counter End Tape / Media Num SM-3 Ftg. Code Description Position Comment Ftg. Code Description Position Comment O.0 AMH Access Point - Manhole Starting Manhole: 18546						
Circular City Pipe 280.5 33.8 DVD SM-3			Grade to Invert Rim to			
Adaintenance Related Ftg. Code Description PositionComment 0.0 AMH Access Point - Manhole Starting Manhole: 18546 0.0 MWL Water Level		Vitrified			Start Counter End	Tape / Media Number SM-3
Ftg. Code Description PositionComment 0.0 AMH Access Point - Manhole Starting Manhole: 18546				Additional Information		TV Truck ID T.V. 194
0.0 AMH Access Point - Manhole Starting Manhole: 18546						
0.0 MWL Water Level)) r	Ftg. Code D	Description	PositionCo	omment	
		0.0 AMH A	Access Point - Manhole	Sta	arting Manhole: 1854	6
	9	0.0 MWL V	Vater Level			
19.0 MINVES Water Level. Sag		019.6 MW/IS W	Nater Level: Sag	DS	SMH TO 10'	
		19.0 10100123 V	valer Level. Sag	DC	SWILL LO 19	
€ 33.8 MSA Survey Abandoned CRALWER WILL NOT CRAWL		, 33 8 MSΔ S	Survey Ahandoned	C	RAIWER WILL NOT	CRAWI



Defect Listing

May PR

Infrastructure Technologies 4921 Alexander Blvd Albuquerque, NM 877-ITpipes

	Pipe Segme	ent Reference	C	ity	Street	Mate	erial	Location Code	Pipe Use
1218	305 shot 1	36 seg 209 post	joli	et il	s may st	Vitrified (Clay Pipe		Sanitary Sewage Pip
	Upstr	eam MH	Total	Length	Year Constructed	Sha	ipe	Locatio	n Details
	15	5554			2021	Circ	ular		
	Downss	stream MH	Length :	surveyed	Year Renewed	Height	Width	Pipe Joint Length	
	15553		21	0.7	2021	12			
	SPR 0		MPR 0		PO Number			Customer	
	SPRI	0	MPRI	0					
	OI IXI	•	IVII IXI		Work Order Numb	per		Purpose	
	QSR	0000	QMR	0000			Pos	t Rehabilitation	Survey
	C)PR	Surve	yed By	Direction	Da	te	Medi	a label
		0	BRANDO	ON DOBE	Downstream	04/27	/2021		
	0	PRI	Certificat	e Number	Pre-Cleaning	Tin	ne	Weather	
	0		U-1113-17837		Light Cleaning	15:	15:03		
		<u>'</u>	Date C	Cleaned		End ⁻	Гime	Additio	onal Info
	Date Cleaned			15:	11				

Distance	Condition	Cont. Dfct.		Values		Joint	Clock P	osition	Grade
Distance	Condition	Cont. Dict.	1st	2nd	%	Joint	At/From	То	Grade
0	Access Point Manhole			_					
Remarks:	15554			Ma	ay PR				
0	Miscellaneous Water Level		,	_	0				
48.3	Tap Factory Activity		<mark>6</mark> ∠				10		
54.3	Tap Factory Activity		6				2		
73.8	Tap Factory Activity		6				10		
97	Tap Factory Activity		6				2		
121.4	Tap Factory Activity		6				2		
166.8	Tap Factory Activity		6				10		
172.3	Tap Factory Activity		6				2		
210.7	Access Point Manhole								
Remarks:	15553				•				•



Hacker PR

Upstream 18045

Surveyors name A.MENDEZ		ificate Number 609-8999	System Owner	Survey Customer	Drainage Area	Engineer
Project	P/O No.		Date Time 20150309 12:0	Location (Street Name 4 HACKER	and number) Locality JOLIET	
Work Order Job # JOL010-15	Pipelii 1667	ne Segment Reference 77	Upstrea 1804		to Invert Grade to Invert	Rim to Grade
Downstream Manh 18030	ole Number	Rim to Invert	Grade to Invert	Rim to Grade Use of Sani		Control Height 18
Width Shap	e Materia	ed	Pipe Joint Length	Total Length Length Surveyed 100	Counter Start Counter End	Tape / Media Number AM-2
Purpose Maintenance Related	Sewer Category		Cleaned Weat Dry		ĭ	TV Truck ID TV-214
	0.0 AMI 0.0 MW				on Comment Starting Manhole: 18045	
Y	~2.5 CM	I Crack Multiple		12 to 13	2	
	~17.4 TB <i>l</i>	A Tap, Break-in /	/ Hammer: Active	2		
*		A Tap, Break-in / C Tap, Break-in /	/ Hammer: Active / Hammer: Capped	11 1		
+	⊸ 66.3 TB <i>A</i>	A Tap, Break-in <i>i</i>	/ Hammer: Active	2		
	⁻ 80.7 TBA ⁻ 81.0 CM		/ Hammer: Active	9 12 to 1:	TO CONCRETE 2 out of time	



2500 W. Arthington, Chicago, IL 60612 Tel.: (312) 666-7700 - Fax: (312) 666-5810

Hacker PR

Upstream 18045

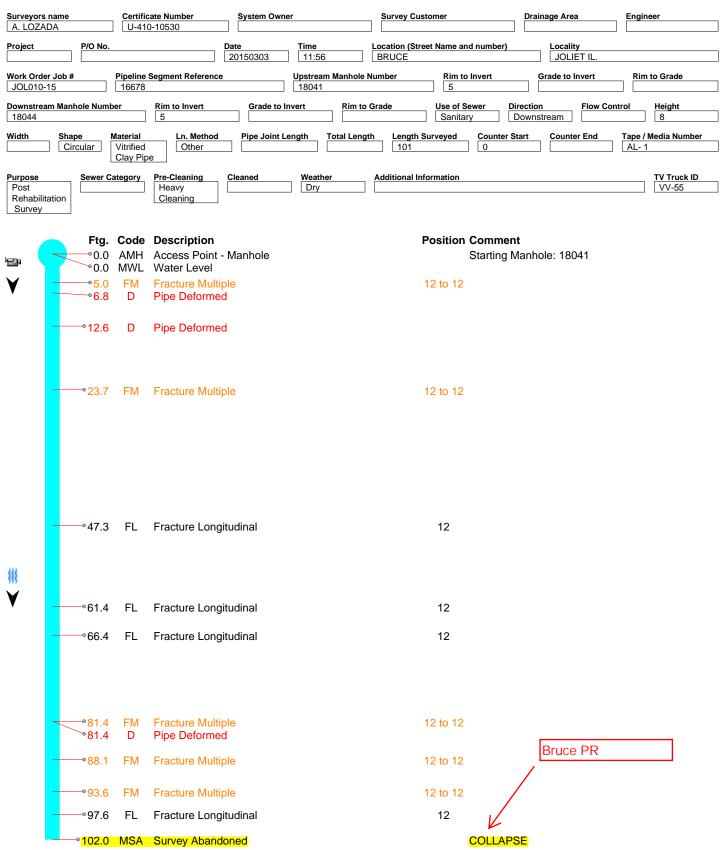






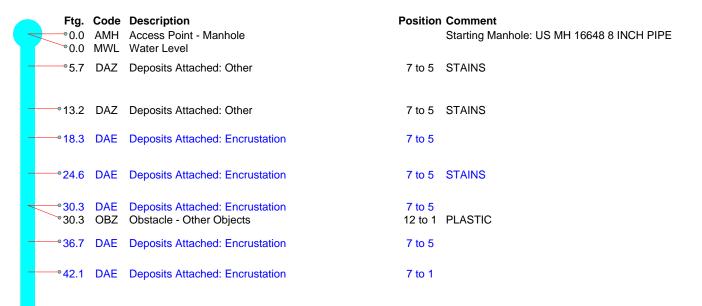
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Upstream 18041





Upstream MH 16648	Downstream MH 16457	Size 8	Materi Clay Ti		Total Len 269	gth	City JOLIET
Surveyor's Name P.DIAZ	Certificate Number U-216-07003172		Street Address DORIS AVE	Locati	on Details		
Direction Downstream Additional Information	Purpose Maintenance Related		Weather	Date 2018100	9	Time 07:46	Length Surveyed 116.6

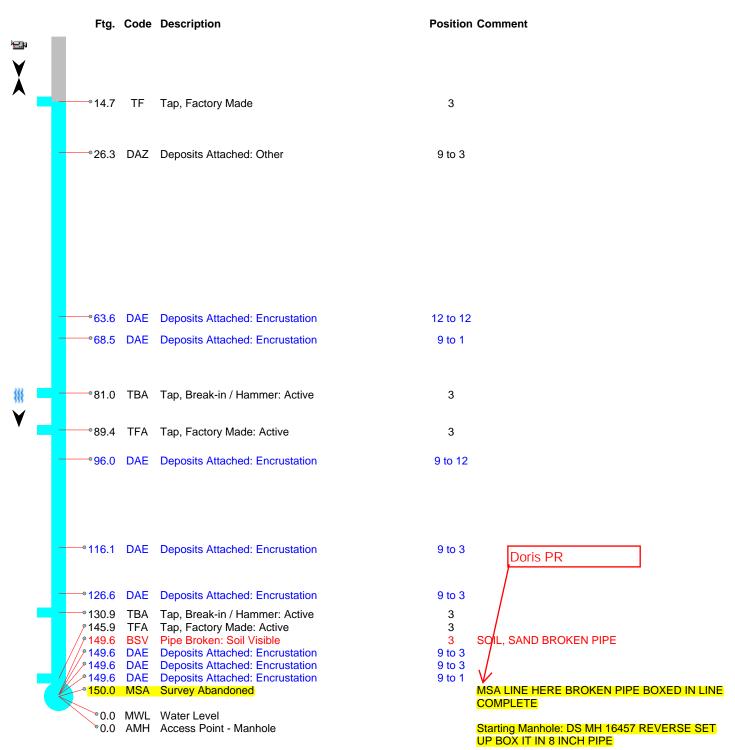














800-23	4-720	5				www	ariesindustries.com
Upstream MH	_ <u>D</u>	ownstream MH	Size	Mater	ial	Total Length	City
4837		4840	8	Vitrified Cla		273	JOLIET
Surveyor's Nan M. Sedlacek	ne	Certificate Number U-116-07002807	Sti	reet Address Glenn st	<u>L</u>	ocation Details	
						Data Time	1 dr O dr
Direction Downstream	Pos	Purpose st Rehabilitation Survey		Weather Dry		Date Time 190926 10:08	Length Surveyed 269.7
Additional Inform	ation						
0.0	AMH	Description Access Point - Manhole Water Level			Positio	n Comment Starting Manhole: 4837. F and service grouting.	Post tv for mainline cipp
66.8	ТВ	Tap, Break-in / Hammer			10		
°114.9	ТВ	Tap, Break-in / Hammer			2	Glen PR	
₩ → 145.8	ТВ	Tap, Break-in / Hammer			2	Service is collapsed.	
216.0	ТВ	Tap, Break-in / Hammer			12		
269.7	AMH	Access Point - Manhole				Stop manhole 4840. End	of inspection.



Upstream MH: 15824 Downstream MH: 614

Surveyor's Name: G.DELTORO Certificate Number: U-1113-17839

System Owner: Performance Pipeline Survey Customer: Performance Pipeline,

Joliet

Purchase Order #: 121805 **Drainage Area:**

Street Address: Mcdonough Easement

Location Details:

Direction: D Shape: C Ln. Method: CP Purpose: C

Weather: 1

Pre-Cleaning: J **Date:** 20200718 Height: 10 **Measurements:** U/D Width: Time: 06:01 Rim to Invert: Cleaned: Joint Length: **Grade to Invert:** Year Laid: **Total Length:** Rim to Grade:

Year Rehab.: Len. Surveyed: **Sewer Category:**

Additional Information:

Sewer Use: SS

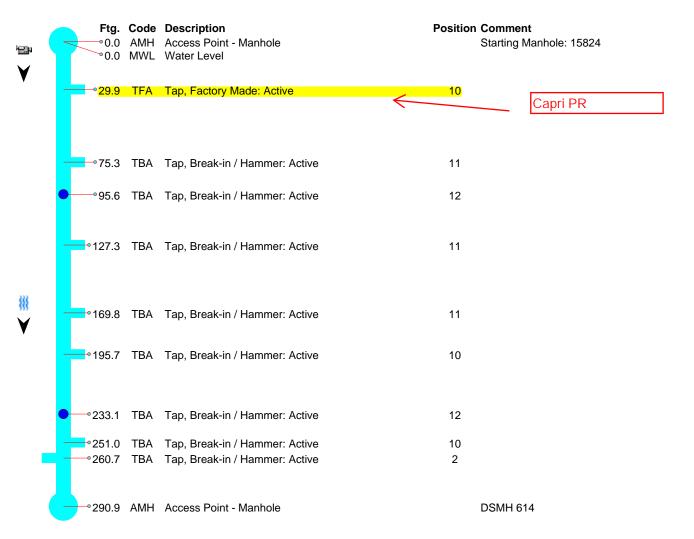
Material: VCP

Flow Control:

City: Joliet, IL

Pipe Segment Ref.: Shot 50 Seg 81 POST

Media Number: Shot 50 Seg 81 POST





15284

National Power Rodding 2500 W. Arthington, Chicago, IL 60612 Tel.: (312) 666-7700 - Fax: (312) 666-5810

CITY OF JOLIET

Upstream 269

									15	284	
Surveyors name		cate Num	ber	System Owner	r	Survey Cust			age Area	Engir	neer
MCCARTHY	0000	0001				CITY OF J	OLIET	Sout	thside Area		
Project P/O No.				Date	Time		et Name and numbe	er)	Locality		
				20160722	13:01	WATER			JOLIET		
Work Order Job # JOL010-19	Pipeline 13264		Referenc	e	Upstream Manh 269	ole Number	Rim to Invert	Gı	ade to Invert	Rim	1 to Grade
Downstream Manhole Num	ber	Rim to	Invert	Grade to In	vert Rir	n to Grade	Use of Sewer	Direction		Control	Height
15284		12.9					Sanitary	Downstr	eam		10
	Material		n. Method	Pipe Joint Le				er Start	Counter End		Media Number
Circular	Vitrified Clay Pip				170.5	165.8	DVD)		SM-1	14
				<u>.</u>							
Purpose Sewer C	Category	Pre-Cle Jetting		Cleaned	Weather Dry	Additional Info	ormation				TV Truck ID T.V. 194
Related											
	260										
	269	Ftg.	Code	Description			Position (Commen	t		
	N										
		0.0	АМН	Access Point -	Manhole		9	Starting M	lanhole: 26	9	
Y		0.0	,	7.00000 1 01111	Marinolo		·	otarting iv	idiio.o. 20	J	
The state of the s	\	\									
	1	0.0	MWL	Water Level							
Black and a second											
100											
		21.1	CI	Crack Longitud	inal		6	14/6	iter PR		
11	//	21.1	OL	Crack Longitud	IIIai		O		ilei FK		
	1 +1	١									
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\			,						
		23.2	D	Pipe Deformed							
		\									
		\									
The state of		23.0	ПС//	Holo in Pino: S	oil Viciblo		12 to 2				
一方。	1/	23.9	поч	Hole in Pipe: S	OII VISIDIE		12 to 2				
	\'	\									
	1 \										
	\ \	⁶ 46.1	TFA	Tap, Factory M	ade: Active		3				
 	\ '	\									
"	1	1\									
	1/ /	18.2	TΕΛ	Tap, Factory M	ado: Activo		9				
The state of the s		40.2	ПΑ	rap, ractory w	aue. Active		9				
		\									
		\									
		80.3	TFA	Tap, Factory M	ade: Active		3				
	-1H										
		\									
		07.4	TΕΛ	Tap, Factory M	ado: Activo		9				
and the same		31.4	117	rap, raciory ivi	ado. Adlive		9				
国际 美国中的发展											
N		101.6	CL	Crack Longitud	inal		12				
All All an an											
		116.3	СС	Crack Circumfe	erential		2 to 3				
CONTRACTOR OF THE PARTY OF THE											

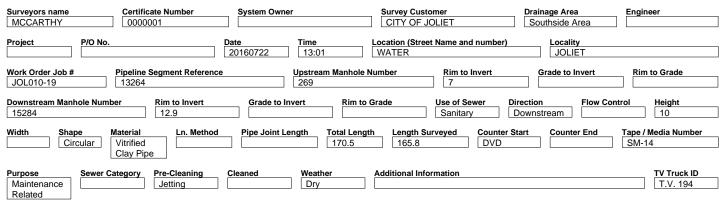


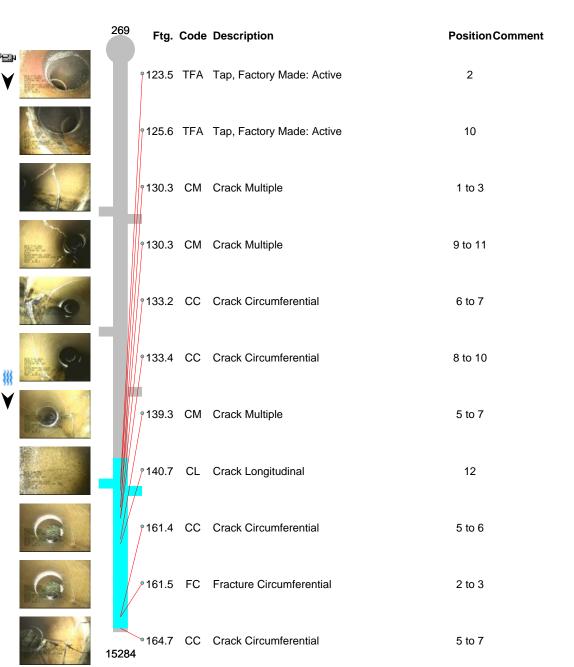
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CITY OF JOLIET

Water PR

Upstream 269





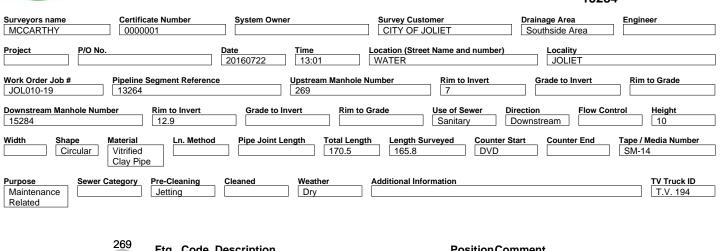


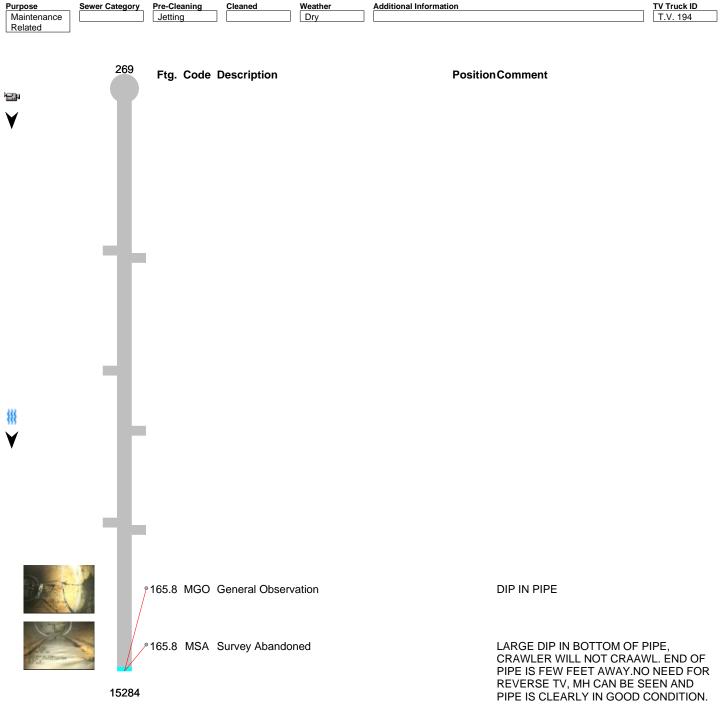
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CITY OF JOLIET

Water PR

Upstream 269









Michel's Pipe Services 817 W. Main St. I PO Box 128 Brownsville, WI 53006

Brownsville, WI 53006
Ph: (920)583-3132 I Fax:(920)924-4320
Email: cipp@michels.us I Web: www.michels.us

Surveyors name Emanuel Vega	Certificate Number U-0417-07008346	System Owner Joliet	Survey Custo		Orainage Area	Sheet 1								
P/O No.Pipeline Segment ReferenceDateTimeLocation (Street Name and number)Locality180309152162018080813:13Glenwood AveJOLIET														
Further Location details Light Highway		Upstream N 16915	Manhole Number	Rim to Invert	Grade to Invert	Rim to Grade								
Downstream Manhole Numb 16917	ownstream Manhole Number Rim to Invert Grade to Invert Rim to Grade Use of Sewer Direction Flow Control Height													
Width Shape 12 Circular	Material Ln. Me	thod Pipe Joint Length	Total Length Length 18.9	Surveyed Year Laid	Year Rehabilitated	Tape / Media Number								
Purpose Sewer Ca	ategory Pre-Cleaning Jetting	Cleaned Weather Dry	Additional Info	rmation										

Distance		de	Continuous	Value			Circumf	erential ation		Struct.	O&M	
(Feet)	Group/ Descriptor	Modifier/ severity	defect	S/M/L Inches 1st 2nd	- %	Joint	At / From	То	Image Ref.	Grade		Remarks
0.0	AMH											Starting Manhole: 16915
0.0	MWL				5							
3.5	CH4						12	12		5		
7.4	В	SV					6			5		
13.8	В	SV					8			5		
16.5	В	VV					12			5		
18.9	MSA											Pipe is almost collapsed can not crawl any further, do not want to risk getting the camera stuck in line.

			(Stru	ctu	ral						0	& IV				Overall							
Segment	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
Glenwood Ave_16915_16917-Downstream_Downst	0	0	0	0	20	20	5400	5.0	0	0	0	0	0	0	0000		0	0	0	0	20	20	5400	5.0



Michel's Pipe Services 817 W. Main St. I PO Box 128 Brownsville, WI 53006 Ph: (920)583-3132 I Fax:(920)924-4320 Email: cipp@michels.us I Web: www.michels.us

Surveyors Name **Pipe Segment Reference** Date Time Customer **CITY OF JOLIET** 20180808 **Emanuel Vega** 15216 13:13 Rim To Invert (U) Rim To Invert (D) Shape **Upstream MH** Downstream MH Use of Sewer 16915 6 16917 6.9 Sanitary Circular Width **Survey Direction Length Surveyed Pre-Cleaning** Weather **Total Length** Height Downstream 18.9 **Jetting** Dry **Location Details** Street Glenwood Ave Light Highway Flow Control **Purpose** Maintenance Related **Additional Information Position Comment** Ftg. Code Description Access Point - Manhole 0.0 AMH Starting Manhole: 16915 0.0 MWL Water Level °3.5 CH4 Crack Longitudinal Hinge, 4 12 to 12 6 BSV Pipe Broken: Soil Visible °13.8 BSV Pipe Broken: Soil Visible 8 Glenwood PR °18.9 MSA Survey Abandoned Pipe is almost collapsed can not crawl any further, do not want to risk getting the camera stuck in line.



°154.4 MSA

Survey Abandoned

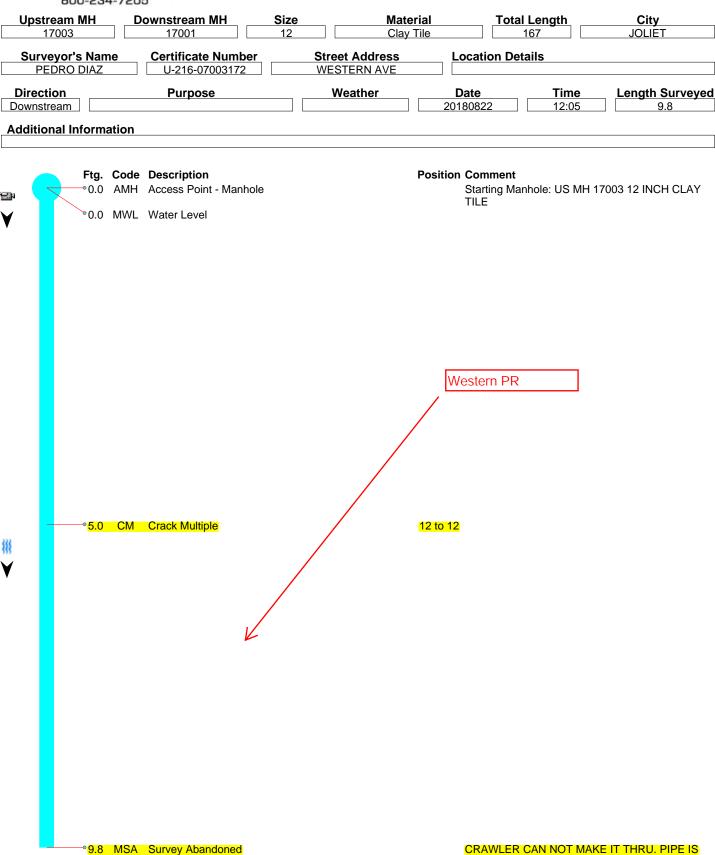
Michel's Pipe Services 817 W. Main St. I PO Box 128 Brownsville, WI 53006 Ph: (920)583-3132 I Fax:(920)924-4320 Email: cipp@michels.us I Web: www.michels.us

Surveyors Name **Pipe Segment Reference** Customer **Date** Time 20180817 **Emanuel Vega** 15216 CITY OF JOLIET 09:53 Rim To Invert (D) Upstream MH Rim To Invert (U) **Downstream MH** Use of Sewer Shape 16915 6 16917 Sanitary Circular Pre-Cleaning **Survey Direction** Length Surveyed Total Length Weather Width Height Upstream 154.4 **Jetting** Dry 12 Street **Location Details** Glenwood Ave Light Highway Flow Control **Purpose** Maintenance Related Additional Information Ftg. **Code Description Position Comment** Access Point - Manhole **0.0** AMH Starting Manhole: 16917 0.0 MWL Water Level 0.0 MGO **General Observation** This is cleaning pass #3 on this segment as well as segment 15218 this is a reverse setup could only crawl in 18.9 ft 0.0 General Observation MGO from upstream MH 16915 9.3 CH4 Crack Longitudinal Hinge, 4 12 to 12 33.7 CM Crack Multiple 1 to 4 Joint Offset (displaced): Medium 39.0 **JOM** °45.4 **JOM** Joint Offset (displaced): Medium 47.9 **JOM** Joint Offset (displaced): Medium Tap. Break-in / Hammer: Intruding °49.4 TBI 3 °53.5 JOM Joint Offset (displaced): Medium •59.9 **JOM** Joint Offset (displaced): Medium JOM Joint Offset (displaced): Medium 62.2 66.0 JOM Joint Offset (displaced): Medium Joint Offset (displaced): Medium 69.4° **JOM** 71.6 JOM Joint Offset (displaced): Medium °74.1 **JOM** Joint Offset (displaced): Medium **JOM** Joint Offset (displaced): Medium °76.1 Joint Offset (displaced): Medium °78.1 JOM °80.4 Joint Offset (displaced): Medium JOM °126.2 Pipe Deformed D Glenwood PR **BSV** °131.0 Pipe Broken: Soil Visible 12 °134.9 **BSV** Pipe Broken: Soil Visible 11 to 12 CS 7 to 9 °139.2 Crack Spiral 153.7 FH4 Fracture Longitudinal Hinge, 4 12 to 12 CH4 Crack Longitudinal Hinge, 4 12 to 12 **JOM** Joint Offset (displaced): Medium

Pipe too deformed to continue



Aries Industries 550 Elizabeth St Waukesha, WI 53186 www.ariesindustries.com



DEFORMED



1 14 15	800-23	4-720	5			www.	ariesindustries.com
	tream MH 17003	_ D	ownstream MH Size	Mate Polyvinyl		Total Length	City JOLIET
	veyor's Nar PEDRO DIAZ	ne	Certificate Number U-216-07003172	ocation Details			
Direction Upstream			Purpose	Weather		Date Time 180823 08:31	Length Surveyed 139.9
Additi	onal Inform	ation					
igy igy	139.9 139.9	CH4 CM	Description Crack Longitudinal Hinge, 4 Crack Multiple		Position 12 to 12 12 to 12		
٨			Survey Abandoned Crack Longitudinal Hinge, 4		12 to 12	DUE TO PIPE BEING BROTHE CAMERA CAN NOT HERE	
	117.9 114.0 110.9	MWLS	Crack Multiple Water Level: Sag Tap, Break-in / Hammer		12 to 12 2	Western P	R
-	98.0 98.0 98.0	BSV JSL TF	Pipe Broken: Soil Visible Joint Separated (open): Large Tap, Factory Made		9 to 12		
-			Crack Longitudinal Hinge, 4 Tap, Factory Made: Capped		12 to 12 9		
***	~61.1	ТВ	Tap, Break-in / Hammer		2		
	 °51.7	ТВ	Tap, Break-in / Hammer		10		
	~36.5	ТВ	Tap, Break-in / Hammer		2		
	°25.0	ТВ	Tap, Break-in / Hammer		10		
	°12.5		Joint Offset (displaced): Medium Crack Longitudinal Hinge, 4 Material Change		12 to 12	CLAY PIPE	
			Water Level Access Point - Manhole			Starting Manhole: DS MH INCH LINE	17001 PVC PIPE 12