

## Profile/Photo Observation Report

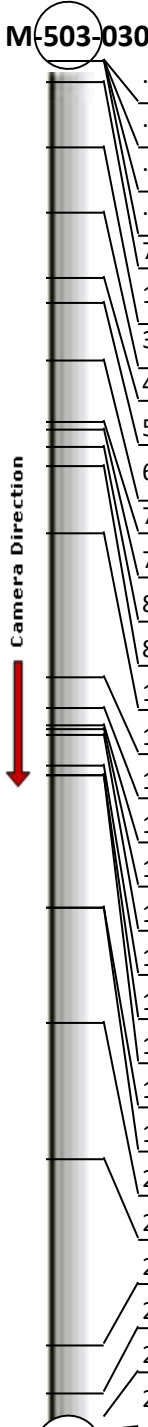


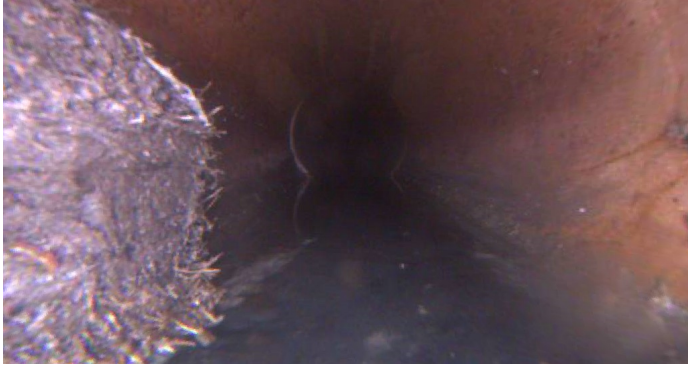
Date:	<b>04/07/2018</b>	Weather:		Coding:	<b>PACP 6.0</b>
Pipe Length (ft):	<b>296.1</b>	Owner:	<b>NA</b>	Pre Clean:	<b>Not Known</b>
P.O.#:		Surveyor:	<b>Mark Ruby</b>	PSR:	<b>P-503-030-031</b>
Customer:		Clean Date:	<b>01/01/1900</b>	Shape:	<b>C</b>

Street:	<b>N DELAWARE ST</b>	Flow Control:	<b>Not Controlled</b>
City:	<b>Hobart, IN</b>	Year Renewed:	
Location:	<b>Other</b>	Tape/Media #:	
Purpose:	<b>Not Known</b>	Dia/Height:	<b>10"</b>
Use:	<b>Sanitary</b>	Material:	<b>VCP</b>
Drain Area:	<b>NA</b>	Lining:	
Category:	<b>NA</b>		
Comment:			

Location Details:		Direction of Survey:	<b>Upstream</b>
US MH:	<b>M-503-031</b>	DS MH:	<b>M-503-030</b>
		Total Length Surveyed (ft):	<b>286.0</b>

O&M Index:	<b>3.24</b>	O&M Quick:	<b>4A36</b>	O&M Rating:	<b>68.00</b>
Structural Index:	<b>3.43</b>	Structural Quick:	<b>4432</b>	Structural Rating:	<b>24.00</b>
Overall Index:	<b>3.29</b>	Overall Quick:	<b>4B38</b>	Overall Rating:	<b>92.00</b>

	Position	Code	Observation	Video (sec)	Grade
<b>M-503-030</b>					
	.0	RMJ	Roots Medium Joint	10	M 3
	.0	FM	Fracture Multiple	22	S 4
	.0	AMH	Manhole	33	NA
	.0	MWL	Water Level	44	NA
	7.0	CS	Crack Spiral	69	S 2
	18.0	TB	Tap Break-in	103	NA
	31.7	FS	Fracture Spiral	141	S 3
	47.6	TF	Tap Factory	186	NA
	53.1	FM	Fracture Multiple	210	S 4
	62.5	FM	Fracture Multiple	240	S 4
	77.9	FM	Fracture Multiple	282	S 4
	79.5	TF	Tap Factory	298	NA
	83.2	TF	Tap Factory	319	NA
	87.0	FS	Fracture Spiral	342	S 3
	101.2	TFC	Tap Factory Capped	384	NA
	131.1	RFJ	Roots Fine Joint	457	M 1
	137.4	RMJ	Roots Medium Joint	486	M 3
	141.3	TFD	Tap Factory Defective	509	M 2
	142.0	RML	Roots Medium Lateral	524	M 3
	143.1	RFJ	Roots Fine Joint	539	M 1
	149.6	RBJ	Roots Ball Joint	568	M 4
	151.7	TFD	Tap Factory Defective	586	M 2
	151.7	RML	Roots Medium Lateral	596	M 3
	179.2	TBD	Tap Break-in Defective	663	M 3
	179.2	RML	Roots Medium Lateral	674	M 3
	203.5	TFC	Tap Factory Capped	735	NA
	231.7	MCU(S01)	Camera Underwater	803	M 4
	270.9	MCU(F01)	Camera Underwater	893	M 4
	280.7	MCU	Camera Underwater	924	M 4
	286.0	MCU	Camera Underwater	948	M 4
	286.0	MSA	Abandoned Survey	959	NA
<b>M-503-031</b>					



Code: **RMJ**  
Description: **Roots Medium Joint**

Distance (ft): **.0**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **7**  
Clock To: **12**  
1st Value:  
2nd Value:  
Value Percent: **20.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

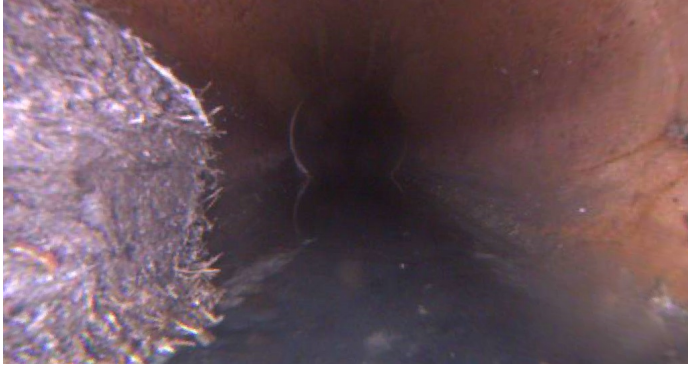
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Code: **FM**  
Description: **Fracture Multiple**

Distance (ft): **.0**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **1**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

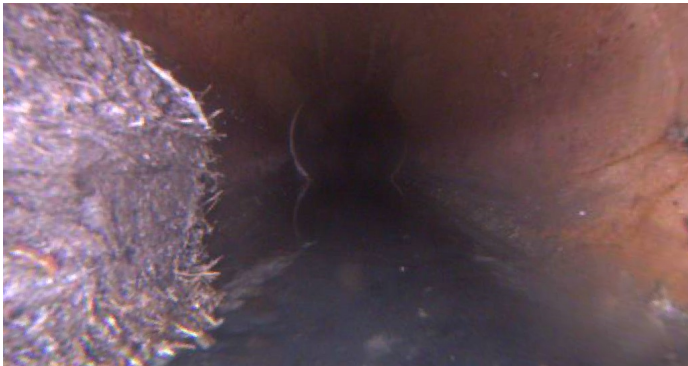
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Code: **AMH**  
Description: **Manhole**

Distance (ft): **.0**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **M-503-030**

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Code: **MWL**  
Description: **Water Level**

Distance (ft): **.0**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **10.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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Code:	<b>CS</b>
Description:	<b>Crack Spiral</b>
Distance (ft):	<b>7.0</b>
Structural Grade:	<b>2</b>
O&M Grade:	<b>0</b>
Clock Start/From:	<b>7</b>
Clock To:	<b>5</b>
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	<b>YES</b>
Remarks:	

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Code:	<b>TB</b>
Description:	<b>Tap Break-in</b>
Distance (ft):	<b>18.0</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>0</b>
Clock Start/From:	<b>9</b>
Clock To:	
1st Value:	<b>4.000</b>
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	

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Code: **FS**  
Description: **Fracture Spiral**

Distance (ft): **31.7**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From: **8**  
Clock To: **10**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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Code: **TF**  
Description: **Tap Factory**

Distance (ft): **47.6**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **3**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks: **Photo taken from rear camera.**

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Code: **FM**  
Description: **Fracture Multiple**

Distance (ft): **53.1**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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Code: **FM**  
Description: **Fracture Multiple**

Distance (ft): **62.5**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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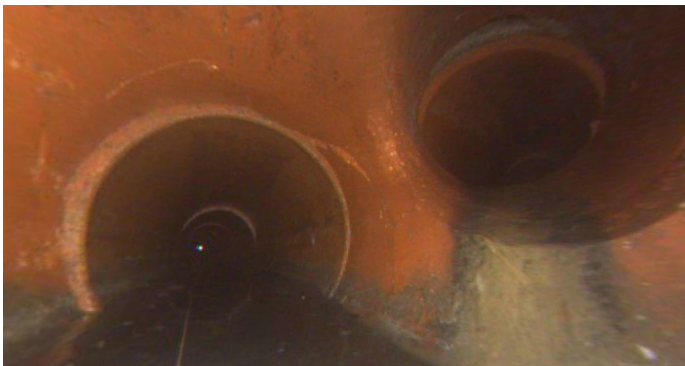
Code: **FM**  
Description: **Fracture Multiple**



Distance (ft): **77.9**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

---

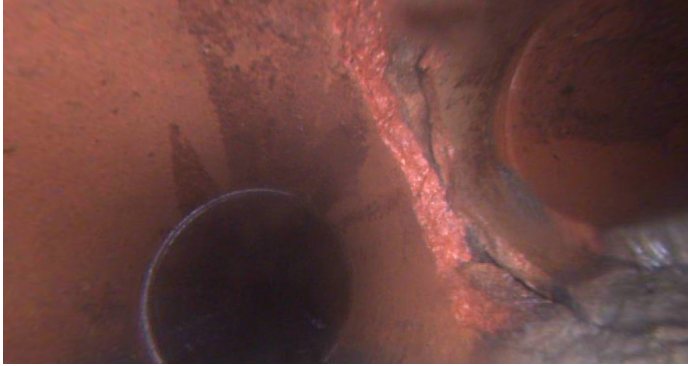
Code: **TF**  
Description: **Tap Factory**



Distance (ft): **79.5**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks: **Photo taken from rear camera.**

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Code: **TF**  
Description: **Tap Factory**

Distance (ft): **83.2**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

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Code: **FS**  
Description: **Fracture Spiral**

Distance (ft): **87.0**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From: **7**  
Clock To: **11**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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Code: **TFC**  
Description: **Tap Factory Capped**

Distance (ft): **101.2**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **3**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks: **Photo taken from rear camera.**



Code: **RFJ**  
Description: **Roots Fine Joint**

Distance (ft): **131.1**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:



Code: **RMJ**  
Description: **Roots Medium Joint**

Distance (ft): **137.4**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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Code: **TFD**  
Description: **Tap Factory Defective**

Distance (ft): **141.3**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **10**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks: **Roots**

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Code: **RML**  
Description: **Roots Medium Lateral**



Distance (ft): **142.0**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **6**  
Clock To: **10**  
1st Value:  
2nd Value:  
Value Percent: **30.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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Code: **RFJ**  
Description: **Roots Fine Joint**



Distance (ft): **143.1**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **7**  
Clock To: **9**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

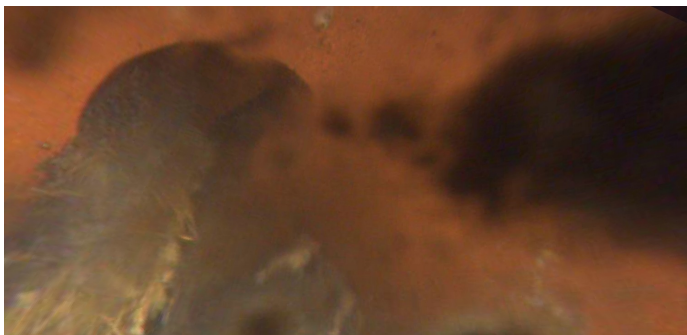
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Code: **RBJ**  
Description: **Roots Ball Joint**

Distance (ft): **149.6**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent: **70.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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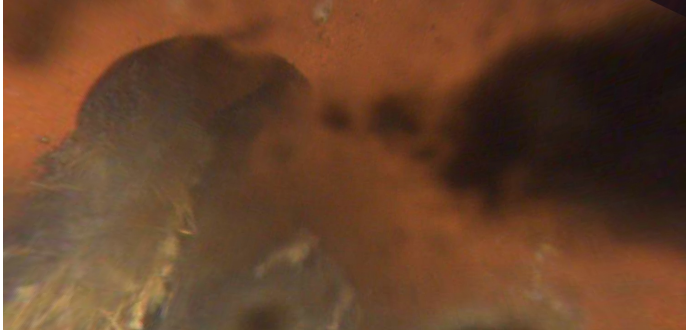
Code: **TFD**  
Description: **Tap Factory Defective**

Distance (ft): **151.7**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **1**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks: **roots**

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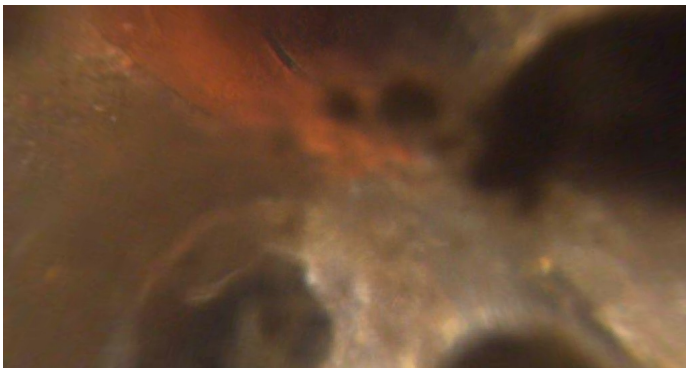
Code: **RML**  
Description: **Roots Medium Lateral**



Distance (ft): **151.7**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **1**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent: **20.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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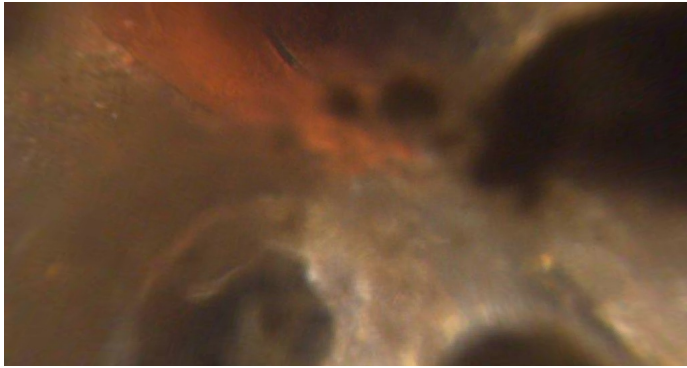
Code: **TBD**  
Description: **Tap Break-in Defective**



Distance (ft): **179.2**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **2**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks: **Roots**

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Code: **RML**  
Description: **Roots Medium Lateral**

Distance (ft): **179.2**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **11**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **15.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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Code: **TFC**  
Description: **Tap Factory Capped**

Distance (ft): **203.5**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **11**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

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Code: **MCU**  
Description: **Camera Underwater**



Distance (ft): **231.7**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S01**  
Within 8" of Joint: **NO**  
Remarks:

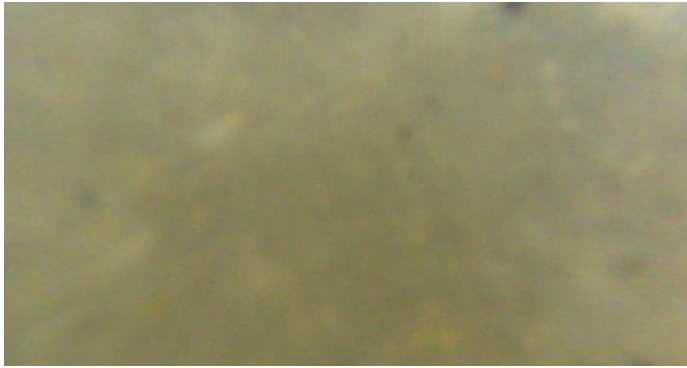
---

Code: **MCU**  
Description: **Camera Underwater**



Distance (ft): **270.9**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F01**  
Within 8" of Joint: **NO**  
Remarks:

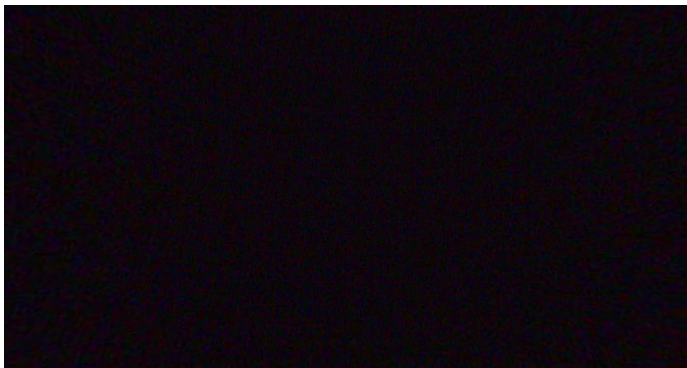
---



Code: **MCU**  
Description: **Camera Underwater**

Distance (ft): **280.7**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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Code: **MCU**  
Description: **Camera Underwater**

Distance (ft): **286.0**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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Code:	<b>MSA</b>
Description:	<b>Abandoned Survey</b>
Distance (ft):	<b>286.0</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>0</b>
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	<b>NO</b>
Remarks:	<b>MCU</b>