

/ Main sections

Project name : Protherics UK Ltd, Wales, Drainage	Project number : J48577	Contact :	Date : 26/09/2017
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Nr.	US MH	DS MH	Date	Road	Tape No.	Material	m	(m)
1	RG 2	RG 1	26/09/2017	Wales		Polyvinyl chloride	15.23	15.23
3	RG3	RG 1	26/09/2017	Wales		Polyvinyl chloride	8.95	8.95
18	PIPE 1	SWMH 1	26/09/2017	Wales		Polyvinyl chloride	1.81	1.81
19	PIPE 2	SWMH 1	26/09/2017	Wales		Polyvinyl chloride	1.60	1.60
20	PIPE 3	SWMH 1	26/09/2017	Wales		Polyvinyl chloride	0.80	0.80
22	RG 15	SW LINE	26/09/2017	Wales		Polyvinyl chloride	0.28	0.28
25	PIPE 1	SWCP 2	26/09/2017	Wales		Polyvinyl chloride	18.90	18.90
28	PIPE 2	SWCP 3	26/09/2017	Wales		Polyvinyl chloride	0.61	0.61
31	PIPE 1	RG 16	26/09/2017	Wales		Vitrified clay	6.02	6.02
33	PIPE 2	SWCP 4	26/09/2017	Wales		Polyvinyl chloride	2.26	2.26
34	PIPE 3	SWCP 4	26/09/2017	Wales		Polyvinyl chloride	18.16	18.16
35	PIPE 4	SWCP 4	26/09/2017	Wales		Polyvinyl chloride	1.60	1.60
36	PIPE 1	RG 18	26/09/2017	Wales		Polyvinyl chloride	1.19	1.19
38	PIPE 1	SWCP 5	26/09/2017	Wales		Polyvinyl chloride	20.68	20.68
39	PIPE 2	SWCP 5	26/09/2017	Wales		Polyvinyl chloride	1.96	1.96
40	SWCP 5	SWCP 6	26/09/2017	Wales		Polyvinyl chloride	7.62	7.62
42	PIPE 1	SWCP 7	26/09/2017	Wales		Polyvinyl chloride	0.16	0.16
44	PIPE 1	SWCP 8	26/09/2017	Wales		Polyvinyl chloride	1.86	1.86
50	PIPE 1	SWCP 9	26/09/2017	Wales		Polyvinyl chloride	0.66	0.66
51	SWCP 11	SWCP 7	26/09/2017	Wales		Polyvinyl chloride	6.18	6.18
56	SPUR 1	FWMH 2	27/09/2017	Wales		Polyvinyl chloride	0.75	0.75
57	FWMH 2	FWMH 3	27/09/2017	Wales		Polyvinyl chloride	1.26	1.26
58	SPUR 1	FWMH 3	27/09/2017	Wales		Polyvinyl chloride	0.73	0.73
59	FWMH 3	FWMH 4	27/09/2017	Wales		Polyvinyl chloride	4.81	4.81
60	FWMH 4	FWMH 5	27/09/2017	Wales		Polyvinyl chloride	12.23	12.23
61	FWMH 5	FWMH 6	27/09/2017	Wales		Polyvinyl chloride	20.29	20.29
62	FWMH 6	FWMH 7	27/09/2017	Wales		Polyvinyl chloride	37.16	37.16
63	FWMH 7	FWMH 8	27/09/2017	Wales		Polyvinyl chloride	10.62	10.62
64	FWMH 8	SEPTIC TNK	27/09/2017	Wales		Polyvinyl chloride	0.45	0.45
65	SPUR 1	FWMH 9	27/09/2017	Wales		Polyvinyl chloride	18.25	18.25
66	SPUR 2	FWMH 9	27/09/2017	Wales		Polyvinyl chloride	10.29	10.29
67	SPUR 3	FWMH 9	27/09/2017	Wales		Polyvinyl chloride	10.83	10.83
68	SPUR 4	FWMH 9	27/09/2017	Wales		Polyvinyl chloride	15.08	15.08
69	SPUR 5	FWMH 9	27/09/2017	Wales		Polyvinyl chloride	11.97	11.97
70	UPSTREAM	FWMH 9	27/09/2017	Wales		Polyvinyl chloride	11.81	11.81
71	FWMH 9	FWMH 7	27/09/2017	Wales		Polyvinyl chloride	20.76	20.76
72	SPUR 1	PWMH 1	27/09/2017	Wales		Vitrified clay	6.41	6.41
73	UPSTREAM	PWMH 1	27/09/2017	Wales		Vitrified clay	12.50	12.50
74	PWMH 1	PWMH 2	27/09/2017	Wales		Vitrified clay	3.55	3.55
78	SPUR 1	PWMH 5	27/09/2017	Wales		Polyvinyl chloride	0.78	0.78
79	UPSTREAM	PWMH 5	27/09/2017	Wales		Polyvinyl chloride	9.30	9.30
80	PWMH 5	PWMH 6	27/09/2017	Wales		Polyvinyl chloride	14.93	14.93
81	PWMH 6	PWMH 7	27/09/2017	Wales		Polyvinyl chloride	5.77	5.77
82	PWMH 7	PWMH 8	27/09/2017	Wales		Polyvinyl chloride	6.26	6.26
85	PWMH 8	PWMH 8A	27/09/2017	Wales		Polyvinyl chloride	6.04	6.04
86	PWMH 8A	DOWNSTREAM	27/09/2017	Wales		Polyvinyl chloride	1.66	1.66
88	SPUR A	PWMH 9	27/09/2017	Wales		Polyvinyl chloride	8.23	8.23
97	SPUR 1	PWMH 12	27/09/2017	Wales		Vitrified clay	2.93	2.93
99	PIPE 2	PWMH 13	27/09/2017	Wales		Polyvinyl chloride	11.48	11.48
113	SPUR 1	PWMH 22	28/09/2017	Wales		Polyvinyl chloride	4.42	4.42
122	TANK	NRV	28/09/2017	Wales		Polyvinyl chloride	1.79	1.79
127	PIPE 2	PWMH 25A	28/09/2017	Wales		Polyvinyl chloride	8.08	8.08

Pipe size: CIRCULAR 100/100 = 407.95 m (407.95 m)

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Nr.	US MH	DS MH	Date	Road	Tape No.	Material	m	(m)
4	RG 1	RG 4	26/09/2017	Wales		Polyvinyl chloride	18.64	18.64
5	RG 5	RG 4	26/09/2017	Wales		Polyvinyl chloride	12.01	12.01
7	RG 4	RG 6	26/09/2017	Wales		Polyvinyl chloride	6.20	6.20
9	RG 6	SWCP 1	26/09/2017	Wales		Polyvinyl chloride	9.75	9.75
10	RG 7	SWCP 1	26/09/2017	Wales		Polyvinyl chloride	0.22	0.22
11	SWCP 1	RG 9	26/09/2017	Wales		Polyvinyl chloride	39.62	39.62
12	RG 8	SW LINE	26/09/2017	Wales		Polyvinyl chloride	0.33	0.33
13	RG 9	RG 10	26/09/2017	Wales		Polyvinyl chloride	21.81	21.81
14	RG 10	RG 11	26/09/2017	Wales		Polyvinyl chloride	3.20	3.20
15	RG 14	RG 12 / 13	26/09/2017	Wales		Polyvinyl chloride	0.44	0.44
17	RG 12 / 13	SWMH 1	26/09/2017	Wales		Vitrified clay	10.96	10.96
21	SWMH 1	RG 11	26/09/2017	Wales		Vitrified clay	5.96	5.96
23	RG 11	SWCP 2	26/09/2017	Wales		Polyvinyl chloride	15.60	15.60
26	SWCP 2	SWCP 3	26/09/2017	Wales		Polyvinyl chloride	12.19	12.19
27	PIPE 1	SWCP 3	26/09/2017	Wales		Polyvinyl chloride	17.81	17.81
29	PIPE 3	SWCP 3	26/09/2017	Wales		Polyvinyl chloride	17.56	17.56
32	PIPE 1	SWCP 4	26/09/2017	Wales		Polyvinyl chloride	25.98	25.98
41	SWCP 6	SW LINE	26/09/2017	Wales		Polyvinyl chloride	35.40	35.40
48	UPSTREAM	RG 19	26/09/2017	Wales		Polyvinyl chloride	13.65	13.65
49	RG 19	SWCP 9	26/09/2017	Wales		Polyvinyl chloride	7.67	7.67
53	RG 20	RG 21	26/09/2017	Wales		Polyvinyl chloride	7.80	7.80
54	RG 21	SW LINE	26/09/2017	Wales		Polyvinyl chloride	5.77	5.77
76	PWMH 2	PWMH 3	27/09/2017	Wales		Vitrified clay	15.13	15.13
77	PWMH 3	PWMH 4	27/09/2017	Wales		Polyvinyl chloride	26.76	26.76
83	SPUR 1 NRV	PWMH 4	27/09/2017	Wales		Polyvinyl chloride	0.28	0.28
84	PWMH 4	NRV	27/09/2017	Wales		Polyvinyl chloride	0.37	0.37
87	PWMH 9	PWMH 23	27/09/2017	Wales		Polyvinyl chloride	8.94	8.94
89	UPSTREAM	PWMH 9	27/09/2017	Wales		Polyvinyl chloride	33.17	33.17
90	UPSTREAM	PWMH 10	27/09/2017	Wales		Vitrified clay	7.06	7.06
91	PWMH 10	PWMH 11	27/09/2017	Wales		Vitrified clay	5.12	5.12
92	PWMH 11	TANK	27/09/2017	Wales		Vitrified clay	3.12	3.12
93	SPUR 1	PWMH 11	27/09/2017	Wales		Vitrified clay	9.25	9.25
94	TANK	PWMH 14	27/09/2017	Wales		Vitrified clay	11.45	11.45
95	PWMH 14	PWMH 13	27/09/2017	Wales		Vitrified clay	13.84	13.84
96	UPSTREAM	PWMH 12	27/09/2017	Wales		Vitrified clay	7.44	7.44
98	PWMH 12	PWMH 13	27/09/2017	Wales		Vitrified clay	8.95	8.95
100	PWMH 13	PWMH 15	27/09/2017	Wales		Vitrified clay	34.16	34.16
101	PWMH 15	TANK	27/09/2017	Wales		Vitrified clay	21.30	21.30
102	PWMH 16	PWMH 15	27/09/2017	Wales		Vitrified clay	19.13	19.13
103	PWMH 17	PWMH 16	27/09/2017	Wales		Vitrified clay	12.58	12.58
104	SPUR 1	PWMH 17	27/09/2017	Wales		Vitrified clay	1.78	1.78
105	PWMH 18	PWMH 17	27/09/2017	Wales		Vitrified clay	6.53	6.53
106	SPUR 1	PWMH 18	27/09/2017	Wales		Vitrified clay	11.57	11.57
107	PWMH 19	PWMH 18	27/09/2017	Wales		Vitrified clay	6.24	6.24
108	SPUR 1	PWMH 19	27/09/2017	Wales		Vitrified clay	11.31	11.31
109	PWMH 20	PWMH 19	27/09/2017	Wales		Vitrified clay	10.70	10.70
110	UPSTREAM	PWMH 20	27/09/2017	Wales		Vitrified clay	19.16	19.16
111	PWMH 21	PWMH 16	27/09/2017	Wales		Polyvinyl chloride	19.08	19.08
112	PIPE 1	PWMH 21	27/09/2017	Wales		Vitrified clay	1.32	1.32
115	PWMH 22	PW LINE	28/09/2017	Wales		Polyvinyl chloride	11.40	11.40
116	NRV	PWMH 23	28/09/2017	Wales		Vitrified clay	4.34	4.34
117	PWMH 23	PWMH 24	28/09/2017	Wales		Polyvinyl chloride	8.98	8.98
118	PWMH 24	TANK	28/09/2017	Wales		Vitrified clay	1.32	1.32
119	NRV	PWMH 24	28/09/2017	Wales		Vitrified clay	6.45	6.45
120	PWMH 25	NRV	28/09/2017	Wales		Vitrified clay	0.92	0.92

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Nr.	US MH	DS MH	Date	Road	Tape No.	Material	m	(m)
121	NRV	PWMH 25	28/09/2017	Wales		Vitrified clay	8.50	8.50
124	PWMH 25A	NRV	28/09/2017	Wales		Vitrified clay	0.59	0.59
125	SPUR 1	PWMH 25A	28/09/2017	Wales		Vitrified clay	0.47	0.47
126	UPSTREAM	PWMH 25A	28/09/2017	Wales		Vitrified clay	5.12	5.12

Pipe size: CIRCULAR 150/150 = 662.4 m (662.4 m)

Nr.	US MH	DS MH	Date	Road	Tape No.	Material	m	(m)
30	SWCP 3	SWCP 4	26/09/2017	Wales		Polyethylene	23.25	23.25
37	SWCP 4	SWCP 10	26/09/2017	Wales		Polyethylene	29.73	29.73

Pipe size: CIRCULAR 225/225 = 52.98 m (52.98 m)

All sections = 1123.33 m (1123.33 m)

Service / Operational Defects (SRM 4)

Project name : Protherics UK Ltd, Wales, Drainage	Project Number : J48577	Contact :	Date : 26/09/2017
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No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
1	RG 2X	U	S	C 100/100	26/09/2017	PVC	15.23	15.23	-	0	1	0	0
2	LAND DRAINX	U	S	C 80/80	26/09/2017	PE	0.00	0.00	-	0	1	0	0
3	RG3X	U	S	C 100/100	26/09/2017	PVC	8.95	8.95	-	0	1	0	0
4	RG 1X	D	S	C 150/150	26/09/2017	PVC	18.64	18.64	-	0	1	0	0
5	RG 5X	U	S	C 150/150	26/09/2017	PVC	12.01	12.01	-	0	1	0	0
6	LAND DRAINX	U	S	C 80/80	26/09/2017	PE	0.00	0.00	-	0	1	0	0
7	RG 4X	D	S	C 150/150	26/09/2017	PVC	6.20	6.20	-	0	1	0	0
8	RG 6X	D	S	C 150/150	26/09/2017	PVC	0.22	0.22	-	0	1	0	0
9	RG 6X	U	S	C 150/150	26/09/2017	PVC	9.75	9.75	-	0	1	0	0
10	RG 7X	U	S	C 150/150	26/09/2017	PVC	0.22	0.22	-	0	1	0	0
11	SWCP 1X	D	S	C 150/150	26/09/2017	PVC	39.62	39.62	-	0	1	0	0
12	RG 8X	D	S	C 150/150	26/09/2017	PVC	0.33	0.33	-	0	1	0	0
13	RG 9X	U	S	C 150/150	26/09/2017	PVC	21.81	21.81	-	0	1	0	0
14	RG 10X	U	S	C 150/150	26/09/2017	PVC	3.20	3.20	-	0	1	0	0
15	RG 14X	U	S	C 150/150	26/09/2017	PVC	0.44	0.44	-	0	1	0	0
16	LAND DRAINX	U	S	C 80/80	26/09/2017	PE	0.00	0.00	-	0	1	0	0
17	RG 12 / 13X	D	S	C 150/150	26/09/2017	VC	10.96	10.96	-	0	1	0	0
18	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	1.81	1.81	-	0	1	0	0
19	PIPE 2X	U	S	C 100/100	26/09/2017	PVC	1.60	1.60	-	0	1	0	0
20	PIPE 3X	U	S	C 100/100	26/09/2017	PVC	0.80	0.80	-	0	1	0	0
21	SWMH 1X	D	S	C 150/150	26/09/2017	VC	5.96	5.96	-	0	1	0	0
22	RG 15X	D	S	C 100/100	26/09/2017	PVC	0.28	0.28	-	0	1	0	0
23	RG 11X	U	S	C 150/150	26/09/2017	PVC	15.60	15.60	-	0	1	0	0
24	LAND DRAINX	U	S	C 80/80	26/09/2017	PE	0.00	0.00	-	0	1	0	0
25	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	18.90	18.90	-	0	1	0	0
26	SWCP 2X	U	S	C 150/150	26/09/2017	PVC	12.19	12.19	-	0	1	0	0
27	PIPE 1X	U	S	C 150/150	26/09/2017	PVC	17.81	17.81	-	0	1	0	0
28	PIPE 2X	U	S	C 100/100	26/09/2017	PVC	0.61	0.61	-	0	1	0	0
29	PIPE 3X	U	S	C 150/150	26/09/2017	PVC	17.56	17.56	-	0	1	0	0
30	SWCP 3X	U	S	C 225/225	26/09/2017	PE	23.25	23.25	-	0	1	0	0
31	PIPE 1X	U	S	C 100/100	26/09/2017	VC	6.02	6.02	-	0	1	0	0
32	PIPE 1X	U	S	C 150/150	26/09/2017	PVC	25.98	25.98	5	0	1	0	0
33	PIPE 2X	U	S	C 100/100	26/09/2017	PVC	2.26	2.26	-	0	1	0	0
34	PIPE 3X	U	S	C 100/100	26/09/2017	PVC	18.16	18.16	-	0	1	0	0
35	PIPE 4X	U	S	C 100/100	26/09/2017	PVC	1.60	1.60	-	0	1	0	0
36	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	1.19	1.19	-	0	1	0	0
37	SWCP 4X	D	S	C 225/225	26/09/2017	PE	29.73	29.73	-	0	1	0	0
38	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	20.68	20.68	-	0	1	0	0
39	PIPE 2X	U	S	C 100/100	26/09/2017	PVC	1.96	1.96	-	0	1	0	0
40	SWCP 5X	D	S	C 100/100	26/09/2017	PVC	7.62	7.62	-	0	1	0	0
41	SWCP 6X	D	S	C 150/150	26/09/2017	PVC	35.40	35.40	-	0	1	0	0
42	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	0.16	0.16	-	0	1	0	0
43	PIPE 2X	U	S	C 100/100	26/09/2017	PVC	0.00	0.00	-	0	1	0	0
44	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	1.86	1.86	-	0	1	0	0
45	PIPE BX	U	S	C 100/100	26/09/2017	PVC	0.52	0.52	-	0	1	0	0
46	SWCP 8X	D	S	C 150/150	26/09/2017	PVC	4.83	4.83	-	0	1	0	0
47	SWCP 7X	D	S	C 100/100	26/09/2017	PVC	0.10	0.10	-	0	1	0	0
48	UPSTREAMX	U	S	C 150/150	26/09/2017	PVC	13.65	13.65	-	0	1	0	0
49	RG 19X	U	S	C 150/150	26/09/2017	PVC	7.67	7.67	-	0	1	0	0
50	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	0.66	0.66	-	0	1	0	0
51	SWCP 11X	D	S	C 100/100	26/09/2017	PVC	6.18	6.18	-	0	1	0	0
52	UPSTREAMX	U	S	C 100/100	26/09/2017	PVC	10.20	10.20	3	8	4	0.78	8
53	RG 20X	D	S	C 150/150	26/09/2017	PVC	7.80	7.80	-	0	1	0	0
54	RG 21X	D	S	C 150/150	26/09/2017	PVC	5.77	5.77	-	0	1	0	0
55	FWMH 1X	D	F	C	26/09/2017	PVC	0.00	0.00	-	0	1	0	0

Service / Operational Defects (SRM 4)

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No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
56	SPUR 1X	U	F	C 100/100	27/09/2017	PVC	0.75	0.75	-	0	1	0	0
57	FWMH 2X	D	F	C 100/100	27/09/2017	PVC	1.26	1.26	-	0	1	0	0
58	SPUR 1X	U	F	C 100/100	27/09/2017	PVC	0.73	0.73	-	0	1	0	0
59	FWMH 3X	D	F	C 100/100	27/09/2017	PVC	4.81	4.81	-	0	1	0	0
60	FWMH 4X	D	F	C 100/100	27/09/2017	PVC	12.23	12.23	-	0	1	0	0
61	FWMH 5X	D	F	C 100/100	27/09/2017	PVC	20.29	20.29	-	0	1	0	0
62	FWMH 6X	D	F	C 100/100	27/09/2017	PVC	37.16	37.16	-	0	1	0	0
63	FWMH 7X	D	F	C 100/100	27/09/2017	PVC	10.62	10.62	-	0	1	0	0
64	FWMH 8X	D	F	C 100/100	27/09/2017	PVC	0.45	0.45	-	0	1	0	0
65	SPUR 1X	U	F	C 100/100	27/09/2017	PVC	18.25	18.25	-	0	1	0	0
66	SPUR 2X	U	F	C 100/100	27/09/2017	PVC	10.29	10.29	-	0	1	0	0
67	SPUR 3X	U	F	C 100/100	27/09/2017	PVC	10.83	10.83	-	0	1	0	0
68	SPUR 4X	U	F	C 100/100	27/09/2017	PVC	15.08	15.08	-	0	1	0	0
69	SPUR 5X	U	F	C 100/100	27/09/2017	PVC	11.97	11.97	-	0	1	0	0
70	UPSTREAMX	U	F	C 100/100	27/09/2017	PVC	11.81	11.81	-	0	1	0	0
71	FWMH 9X	D	F	C 100/100	27/09/2017	PVC	20.76	20.76	-	0	1	0	0
72	SPUR 1X	U	T	C 100/100	27/09/2017	VC	6.41	6.41	-	0	1	0	0
73	UPSTREAMX	U	T	C 100/100	27/09/2017	VC	12.50	12.50	-	0	1	0	0
74	PWMH 1X	D	T	C 100/100	27/09/2017	VC	3.55	3.55	-	0	1	0	0
75	SPUR AX	U	T	C 100/100	27/09/2017	PVC	0.96	0.96	-	0	1	0	0
76	PWMH 2X	D	T	C 150/150	27/09/2017	VC	15.13	15.13	-	0	1	0	0
77	PWMH 3X	D	T	C 150/150	27/09/2017	PVC	26.76	26.76	-	0	1	0	0
78	SPUR 1X	U	T	C 100/100	27/09/2017	PVC	0.78	0.78	-	0	1	0	0
79	UPSTREAMX	U	T	C 100/100	27/09/2017	PVC	9.30	9.30	-	0	1	0	0
80	PWMH 5X	D	T	C 100/100	27/09/2017	PVC	14.93	14.93	-	0	1	0	0
81	PWMH 6X	D	T	C 100/100	27/09/2017	PVC	5.77	5.77	-	0	1	0	0
82	PWMH 7X	D	T	C 100/100	27/09/2017	PVC	6.26	6.26	-	0	1	0	0
83	SPUR 1 NRVX	U	T	C 150/150	27/09/2017	PVC	0.28	0.28	-	0	1	0	0
84	PWMH 4X	D	T	C 150/150	27/09/2017	PVC	0.37	0.37	-	0	1	0	0
85	PWMH 8X		T	C 100/100	27/09/2017	PVC	6.04	6.04	-	0	1	0	0
86	PWMH 8AX	D	T	C 100/100	27/09/2017	PVC	1.66	1.66	-	0	1	0	0
87	PWMH 9X	D	T	C 150/150	27/09/2017	PVC	8.94	8.94	-	0	1	0	0
88	SPUR AX	U	T	C 100/100	27/09/2017	PVC	8.23	8.23	-	0	1	0	0
89	UPSTREAMX		T	C 150/150	27/09/2017	PVC	33.17	33.17	-	0	1	0	0
90	UPSTREAMX	U	T	C 150/150	27/09/2017	VC	7.06	7.06	-	0	1	0	0
91	PWMH 10X	D	T	C 150/150	27/09/2017	VC	5.12	5.12	-	0	1	0	0
92	PWMH 11X	D	T	C 150/150	27/09/2017	VC	3.12	3.12	-	0	1	0	0
93	SPUR 1X	U	T	C 150/150	27/09/2017	VC	9.25	9.25	-	0	1	0	0
94	TANKX	U	T	C 150/150	27/09/2017	VC	11.45	11.45	-	0	1	0	0
95	PWMH 14X	D	T	C 150/150	27/09/2017	VC	13.84	13.84	-	0	1	0	0
96	UPSTREAMX	U	T	C 150/150	27/09/2017	VC	7.44	7.44	-	0	1	0	0
97	SPUR 1X	U	T	C 100/100	27/09/2017	VC	2.93	2.93	-	0	1	0	0
98	PWMH 12X	D	T	C 150/150	27/09/2017	VC	8.95	8.95	-	0	1	0	0
99	PIPE 2X	U	T	C 100/100	27/09/2017	PVC	11.48	11.48	-	0	1	0	0
100	PWMH 13X	D	T	C 150/150	27/09/2017	VC	34.16	34.16	-	0	1	0	0
101	PWMH 15X	D	T	C 150/150	27/09/2017	VC	21.30	21.30	-	0	1	0	0
102	PWMH 16X	U	T	C 150/150	27/09/2017	VC	19.13	19.13	-	0	1	0	0
103	PWMH 17X	D	T	C 150/150	27/09/2017	VC	12.58	12.58	-	0	1	0	0
104	SPUR 1X	U	T	C 150/150	27/09/2017	VC	1.78	1.78	-	0	1	0	0
105	PWMH 18X	D	T	C 150/150	27/09/2017	VC	6.53	6.53	-	0	1	0	0
106	SPUR 1X	U	T	C 150/150	27/09/2017	VC	11.57	11.57	-	0	1	0	0
107	PWMH 19X	D	T	C 150/150	27/09/2017	VC	6.24	6.24	-	0	1	0	0
108	SPUR 1X	U	T	C 150/150	27/09/2017	VC	11.31	11.31	-	0	1	0	0
109	PWMH 20X	D	T	C 150/150	27/09/2017	VC	10.70	10.70	-	0	1	0	0
110	UPSTREAMX	U	T	C 150/150	27/09/2017	VC	19.16	19.16	-	0	1	0	0

Service / Operational Defects (SRM 4)

Project name :
Protherics UK Ltd, Wales, Drainage

Project Number :
J48577

Contact :

Date :
26/09/2017

No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
111	PWMH 21X	D	T	C 150/150	27/09/2017	PVC	19.08	19.08	-	0	1	0	0
112	PIPE 1X	U	T	C 150/150	27/09/2017	VC	1.32	1.32	-	0	1	0	0
113	SPUR 1X	U	T	C 100/100	28/09/2017	PVC	4.42	4.42	-	0	1	0	0
114	UPSTREAMX	U	T	C 150/150	28/09/2017	PVC	7.85	7.85	-	0	1	0	0
115	PWMH 22X	D	T	C 150/150	28/09/2017	PVC	11.40	11.40	-	0	1	0	0
116	NRVX	U	T	C 150/150	28/09/2017	VC	4.34	4.34	-	0	1	0	0
117	PWMH 23X	D	T	C 150/150	28/09/2017	PVC	8.98	8.98	-	0	1	0	0
118	PWMH 24X	D	T	C 150/150	28/09/2017	VC	1.32	1.32	-	0	1	0	0
119	NRVX	U	T	C 150/150	28/09/2017	VC	6.45	6.45	-	0	1	0	0
120	PWMH 25X	D	T	C 150/150	28/09/2017	VC	0.92	0.92	-	0	1	0	0
121	NRVX	U	T	C 150/150	28/09/2017	VC	8.50	8.50	-	0	1	0	0
122	TANK X	D	T	C 100/100	28/09/2017	PVC	1.79	1.79	-	0	1	0	0
123	NRVX	U	T	C 100/100	28/09/2017	PVC	0.00	0.00	-	0	1	0	0
124	PWMH 25AX	D	T	C 150/150	28/09/2017	VC	0.59	0.59	-	0	1	0	0
125	SPUR 1X	U	T	C 150/150	28/09/2017	VC	0.47	0.47	-	0	1	0	0
126	UPSTREAMX	U	T	C 150/150	28/09/2017	VC	5.12	5.12	-	0	1	0	0
127	PIPE 2X	U	T	C 100/100	28/09/2017	PVC	8.08	8.08	-	0	1	0	0

Structural Defects (SRM 4)

Project name : Protherics UK Ltd, Wales, Drainage	Project Number : J48577	Contact :	Date : 26/09/2017
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No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
1	RG 2X	U	S	C 100/100	26/09/2017	PVC	15.23	15.23	5	20	2	1.31	20
2	LAND DRAINX	U	S	C 80/80	26/09/2017	PE	0.00	0.00	-	0	1	0	0
3	RG3X	U	S	C 100/100	26/09/2017	PVC	8.95	8.95	5	165	5	18.44	165
4	RG 1X	D	S	C 150/150	26/09/2017	PVC	18.64	18.64	-	0	1	0	0
5	RG 5X	U	S	C 150/150	26/09/2017	PVC	12.01	12.01	-	0	1	0	0
6	LAND DRAINX	U	S	C 80/80	26/09/2017	PE	0.00	0.00	-	0	1	0	0
7	RG 4X	D	S	C 150/150	26/09/2017	PVC	6.20	6.20	-	0	1	0	0
8	RG 6X	D	S	C 150/150	26/09/2017	PVC	0.22	0.22	-	0	1	0	0
9	RG 6X	U	S	C 150/150	26/09/2017	PVC	9.75	9.75	-	0	1	0	0
10	RG 7X	U	S	C 150/150	26/09/2017	PVC	0.22	0.22	-	0	1	0	0
11	SWCP 1X	D	S	C 150/150	26/09/2017	PVC	39.62	39.62	5	165	5	4.16	165
12	RG 8X	D	S	C 150/150	26/09/2017	PVC	0.33	0.33	-	0	1	0	0
13	RG 9X	U	S	C 150/150	26/09/2017	PVC	21.81	21.81	5	165	5	13.07	285
14	RG 10X	U	S	C 150/150	26/09/2017	PVC	3.20	3.20	-	0	1	0	0
15	RG 14X	U	S	C 150/150	26/09/2017	PVC	0.44	0.44	-	0	1	0	0
16	LAND DRAINX	U	S	C 80/80	26/09/2017	PE	0.00	0.00	-	0	1	0	0
17	RG 12 / 13X	D	S	C 150/150	26/09/2017	VC	10.96	10.96	3	160	4	37.68	413
18	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	1.81	1.81	-	0	1	0	0
19	PIPE 2X	U	S	C 100/100	26/09/2017	PVC	1.60	1.60	-	0	1	0	0
20	PIPE 3X	U	S	C 100/100	26/09/2017	PVC	0.80	0.80	-	0	1	0	0
21	SWMH 1X	D	S	C 150/150	26/09/2017	VC	5.96	5.96	-	0	1	0	0
22	RG 15X	D	S	C 100/100	26/09/2017	PVC	0.28	0.28	-	0	1	0	0
23	RG 11X	U	S	C 150/150	26/09/2017	PVC	15.60	15.60	-	0	1	0	0
24	LAND DRAINX	U	S	C 80/80	26/09/2017	PE	0.00	0.00	-	0	1	0	0
25	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	18.90	18.90	-	0	1	0	0
26	SWCP 2X	U	S	C 150/150	26/09/2017	PVC	12.19	12.19	5	80	4	13.13	160
27	PIPE 1X	U	S	C 150/150	26/09/2017	PVC	17.81	17.81	-	0	1	0	0
28	PIPE 2X	U	S	C 100/100	26/09/2017	PVC	0.61	0.61	-	0	1	0	0
29	PIPE 3X	U	S	C 150/150	26/09/2017	PVC	17.56	17.56	-	0	1	0	0
30	SWCP 3X	U	S	C 225/225	26/09/2017	PE	23.25	23.25	-	0	1	0	0
31	PIPE 1X	U	S	C 100/100	26/09/2017	VC	6.02	6.02	2	7	1	1.16	7
32	PIPE 1X	U	S	C 150/150	26/09/2017	PVC	25.98	25.98	5	165	5	9.43	245
33	PIPE 2X	U	S	C 100/100	26/09/2017	PVC	2.26	2.26	-	0	1	0	0
34	PIPE 3X	U	S	C 100/100	26/09/2017	PVC	18.16	18.16	5	410	5	95.59	1736
35	PIPE 4X	U	S	C 100/100	26/09/2017	PVC	1.60	1.60	-	0	1	0	0
36	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	1.19	1.19	-	0	1	0	0
37	SWCP 4X	D	S	C 225/225	26/09/2017	PE	29.73	29.73	5	165	5	5.55	165
38	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	20.68	20.68	5	165	5	7.98	165
39	PIPE 2X	U	S	C 100/100	26/09/2017	PVC	1.96	1.96	-	0	1	0	0
40	SWCP 5X	D	S	C 100/100	26/09/2017	PVC	7.62	7.62	-	0	1	0	0
41	SWCP 6X	D	S	C 150/150	26/09/2017	PVC	35.40	35.40	5	20	2	0.56	20
42	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	0.16	0.16	-	0	1	0	0
43	PIPE 2X	U	S	C 100/100	26/09/2017	PVC	0.00	0.00	-	0	1	0	0
44	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	1.86	1.86	-	0	1	0	0
45	PIPE BX	U	S	C 100/100	26/09/2017	PVC	0.52	0.52	-	0	1	0	0
46	SWCP 8X	D	S	C 150/150	26/09/2017	PVC	4.83	4.83	5	165	5	153.73	742.5
47	SWCP 7X	D	S	C 100/100	26/09/2017	PVC	0.10	0.10	-	0	1	0	0
48	UPSTREAMX	U	S	C 150/150	26/09/2017	PVC	13.65	13.65	3	40	3	2.93	40
49	RG 19X	U	S	C 150/150	26/09/2017	PVC	7.67	7.67	5	165	5	21.51	165
50	PIPE 1X	U	S	C 100/100	26/09/2017	PVC	0.66	0.66	-	0	1	0	0
51	SWCP 11X	D	S	C 100/100	26/09/2017	PVC	6.18	6.18	-	0	1	0	0
52	UPSTREAMX	U	S	C 100/100	26/09/2017	PVC	10.20	10.20	5	165	5	32.35	330
53	RG 20X	D	S	C 150/150	26/09/2017	PVC	7.80	7.80	-	0	1	0	0
54	RG 21X	D	S	C 150/150	26/09/2017	PVC	5.77	5.77	-	0	1	0	0
55	FWMH 1X	D	F	C	26/09/2017	PVC	0.00	0.00	-	0	1	0	0

Structural Defects (SRM 4)

Project name : Protherics UK Ltd, Wales, Drainage	Project Number : J48577	Contact :	Date : 26/09/2017
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No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
56	SPUR 1X	U	F	C 100/100	27/09/2017	PVC	0.75	0.75	-	0	1	0	0
57	FWMH 2X	D	F	C 100/100	27/09/2017	PVC	1.26	1.26	-	0	1	0	0
58	SPUR 1X	U	F	C 100/100	27/09/2017	PVC	0.73	0.73	-	0	1	0	0
59	FWMH 3X	D	F	C 100/100	27/09/2017	PVC	4.81	4.81	-	0	1	0	0
60	FWMH 4X	D	F	C 100/100	27/09/2017	PVC	12.23	12.23	-	0	1	0	0
61	FWMH 5X	D	F	C 100/100	27/09/2017	PVC	20.29	20.29	-	0	1	0	0
62	FWMH 6X	D	F	C 100/100	27/09/2017	PVC	37.16	37.16	-	0	1	0	0
63	FWMH 7X	D	F	C 100/100	27/09/2017	PVC	10.62	10.62	-	0	1	0	0
64	FWMH 8X	D	F	C 100/100	27/09/2017	PVC	0.45	0.45	-	0	1	0	0
65	SPUR 1X	U	F	C 100/100	27/09/2017	PVC	18.25	18.25	-	0	1	0	0
66	SPUR 2X	U	F	C 100/100	27/09/2017	PVC	10.29	10.29	-	0	1	0	0
67	SPUR 3X	U	F	C 100/100	27/09/2017	PVC	10.83	10.83	-	0	1	0	0
68	SPUR 4X	U	F	C 100/100	27/09/2017	PVC	15.08	15.08	-	0	1	0	0
69	SPUR 5X	U	F	C 100/100	27/09/2017	PVC	11.97	11.97	-	0	1	0	0
70	UPSTREAMX	U	F	C 100/100	27/09/2017	PVC	11.81	11.81	-	0	1	0	0
71	FWMH 9X	D	F	C 100/100	27/09/2017	PVC	20.76	20.76	-	0	1	0	0
72	SPUR 1X	U	T	C 100/100	27/09/2017	VC	6.41	6.41	-	0	1	0	0
73	UPSTREAMX	U	T	C 100/100	27/09/2017	VC	12.50	12.50	2	0	1	0	0
74	PWMH 1X	D	T	C 100/100	27/09/2017	VC	3.55	3.55	3	40	3	11.27	40
75	SPUR AX	U	T	C 100/100	27/09/2017	PVC	0.96	0.96	4	0	1	0	0
76	PWMH 2X	D	T	C 150/150	27/09/2017	VC	15.13	15.13	-	0	1	0	0
77	PWMH 3X	D	T	C 150/150	27/09/2017	PVC	26.76	26.76	-	0	1	0	0
78	SPUR 1X	U	T	C 100/100	27/09/2017	PVC	0.78	0.78	-	0	1	0	0
79	UPSTREAMX	U	T	C 100/100	27/09/2017	PVC	9.30	9.30	-	0	1	0	0
80	PWMH 5X	D	T	C 100/100	27/09/2017	PVC	14.93	14.93	-	0	1	0	0
81	PWMH 6X	D	T	C 100/100	27/09/2017	PVC	5.77	5.77	-	0	1	0	0
82	PWMH 7X	D	T	C 100/100	27/09/2017	PVC	6.26	6.26	-	0	1	0	0
83	SPUR 1 NRVX	U	T	C 150/150	27/09/2017	PVC	0.28	0.28	-	0	1	0	0
84	PWMH 4X	D	T	C 150/150	27/09/2017	PVC	0.37	0.37	-	0	1	0	0
85	PWMH 8X		T	C 100/100	27/09/2017	PVC	6.04	6.04	-	0	1	0	0
86	PWMH 8AX	D	T	C 100/100	27/09/2017	PVC	1.66	1.66	-	0	1	0	0
87	PWMH 9X	D	T	C 150/150	27/09/2017	PVC	8.94	8.94	-	0	1	0	0
88	SPUR AX	U	T	C 100/100	27/09/2017	PVC	8.23	8.23	5	165	5	20.05	165
89	UPSTREAMX		T	C 150/150	27/09/2017	PVC	33.17	33.17	5	165	5	7.39	245
90	UPSTREAMX	U	T	C 150/150	27/09/2017	VC	7.06	7.06	-	0	1	0	0
91	PWMH 10X	D	T	C 150/150	27/09/2017	VC	5.12	5.12	-	0	1	0	0
92	PWMH 11X	D	T	C 150/150	27/09/2017	VC	3.12	3.12	-	0	1	0	0
93	SPUR 1X	U	T	C 150/150	27/09/2017	VC	9.25	9.25	-	0	1	0	0
94	TANKX	U	T	C 150/150	27/09/2017	VC	11.45	11.45	-	0	1	0	0
95	PWMH 14X	D	T	C 150/150	27/09/2017	VC	13.84	13.84	4	80	4	5.78	80
96	UPSTREAMX	U	T	C 150/150	27/09/2017	VC	7.44	7.44	2	10	2	1.34	10
97	SPUR 1X	U	T	C 100/100	27/09/2017	VC	2.93	2.93	-	0	1	0	0
98	PWMH 12X	D	T	C 150/150	27/09/2017	VC	8.95	8.95	-	0	1	0	0
99	PIPE 2X	U	T	C 100/100	27/09/2017	PVC	11.48	11.48	-	0	1	0	0
100	PWMH 13X	D	T	C 150/150	27/09/2017	VC	34.16	34.16	-	0	1	0	0
101	PWMH 15X	D	T	C 150/150	27/09/2017	VC	21.30	21.30	2	10	2	0.47	10
102	PWMH 16X	U	T	C 150/150	27/09/2017	VC	19.13	19.13	-	0	1	0	0
103	PWMH 17X	D	T	C 150/150	27/09/2017	VC	12.58	12.58	-	0	1	0	0
104	SPUR 1X	U	T	C 150/150	27/09/2017	VC	1.78	1.78	-	0	1	0	0
105	PWMH 18X	D	T	C 150/150	27/09/2017	VC	6.53	6.53	-	0	1	0	0
106	SPUR 1X	U	T	C 150/150	27/09/2017	VC	11.57	11.57	-	5	1	0.43	5
107	PWMH 19X	D	T	C 150/150	27/09/2017	VC	6.24	6.24	-	0	1	0	0
108	SPUR 1X	U	T	C 150/150	27/09/2017	VC	11.31	11.31	1	0	1	0	0
109	PWMH 20X	D	T	C 150/150	27/09/2017	VC	10.70	10.70	4	125	4	17.38	186
110	UPSTREAMX	U	T	C 150/150	27/09/2017	VC	19.16	19.16	2	10	2	0.52	10

Structural Defects (SRM 4)

Project name : Protherics UK Ltd, Wales, Drainage	Project Number : J48577	Contact :	Date : 26/09/2017
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No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Peak HWG	Peak Score	Grade	Mean Score	Total Score
111	PWMH 21X	D	T	C 150/150	27/09/2017	PVC	19.08	19.08	-	0	1	0	0
112	PIPE 1X	U	T	C 150/150	27/09/2017	VC	1.32	1.32	-	0	1	0	0
113	SPUR 1X	U	T	C 100/100	28/09/2017	PVC	4.42	4.42	-	0	1	0	0
114	UPSTREAMX	U	T	C 150/150	28/09/2017	PVC	7.85	7.85	-	0	1	0	0
115	PWMH 22X	D	T	C 150/150	28/09/2017	PVC	11.40	11.40	-	0	1	0	0
116	NRVX	U	T	C 150/150	28/09/2017	VC	4.34	4.34	-	0	1	0	0
117	PWMH 23X	D	T	C 150/150	28/09/2017	PVC	8.98	8.98	-	0	1	0	0
118	PWMH 24X	D	T	C 150/150	28/09/2017	VC	1.32	1.32	-	0	1	0	0
119	NRVX	U	T	C 150/150	28/09/2017	VC	6.45	6.45	-	0	1	0	0
120	PWMH 25X	D	T	C 150/150	28/09/2017	VC	0.92	0.92	-	0	1	0	0
121	NRVX	U	T	C 150/150	28/09/2017	VC	8.50	8.50	1	1	1	0.12	1
122	TANK X	D	T	C 100/100	28/09/2017	PVC	1.79	1.79	3	120	4	67.04	120
123	NRVX	U	T	C 100/100	28/09/2017	PVC	0.00	0.00	-	0	1	0	0
124	PWMH 25AX	D	T	C 150/150	28/09/2017	VC	0.59	0.59	-	0	1	0	0
125	SPUR 1X	U	T	C 150/150	28/09/2017	VC	0.47	0.47	-	0	1	0	0
126	UPSTREAMX	U	T	C 150/150	28/09/2017	VC	5.12	5.12	2	0	1	0	0
127	PIPE 2X	U	T	C 100/100	28/09/2017	PVC	8.08	8.08	-	0	1	0	0

Project-information

Project name :
Protherics UK Ltd, Wales, Drainage

Project Number :
J48577

Contact :

Date :
26/09/2017

Client: **Protherics UK Ltd**
Contact Name: **Dylan**
Department:
Road: **Blaenwaun**
Town: **Ffostrasol, Llandysil, Wales, SA44 5JT**
County: **Ceredigion**
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Fax:
Mobile:
E-mail:

Site: **Client Address**
Contact Name: -
Department: -
Road: -
Town: -
County: -
Telephone:
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Contractor **ClearDrains UK Ltd**
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E-mail: **sales@cleardrains.co.uk**

Defect Grade Description

Project Name : Protherics UK Ltd, Wales, Drainage	Project number : J48577	Contact :	Date : 26/09/2017
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1:

Brick: No Structural Defects
 Pipe: No Structural Defects

Acceptable Structural Condition

2:

Brick: Minor cracking, Surface mortar loss, Spalling slight, wear slight
 Pipe: Circumfrential crack, Moderate joint defects, Spalling slight, Wear slight

Minor collapse risk in short term but potential for further deterioration

3:

Brick: Total mortarloss without other defects, single brick displaced, Deformation up to 5%, Spalling medium, Wear medium
 Pipe: Fractures with deformation up tp 5%, Longitudinal cracking or mulitlpe cracking, Minor loss of level, More severe joint

! Collapse unlikely in near future but future deterioration likely !

4:

Brick: Total mortarloss with deformation greater than 10%, Deformation up to 10% and fractured, Displaced/hanging brickwork, Small number of missing bricks
 Pipe: Broken, Deformation up to 10% and broken,, Fractured with deformation 5 - 10%, Multipl

!! Collapse likely in foreseeable future !!

5:

Brick: Already Collapsed, Missing invert, Deformation over 10% and fractured, Displaced/hanging brickwork and deformation over 10%, Extensive missing bricks
 Pipe: Already collapsed, Deformation over 10% and broken, Extensive areas of fabric missin

!!! Collapsed or collapse imminent !!!

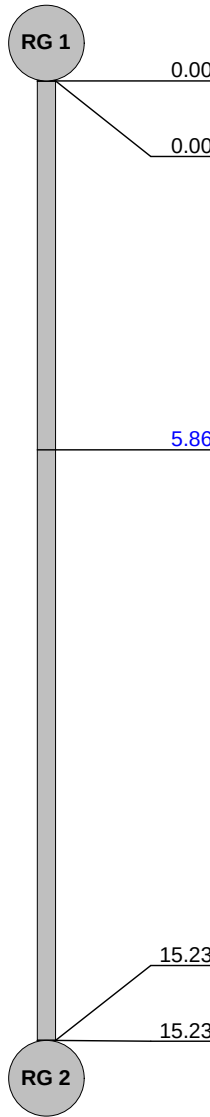
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 1	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 1 (U/S) RG 2	Location details: Catchment: Pipe Shape : Pipe Length	 Circular 	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 2 0.71 RG 1 1.01
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Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 15.23 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride
--	---	--	---

Comment :	INCOMING PIPE DEPTH IS 0.83M DEEP
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1:120	Position	Observation	Grade						
Depth: 1.01									
									
	0.00	Start node type, gully, reference number : RG 1	0						
	0.00	Water level, 0% of the vertical dimension	0						
	5.86	Deformed sewer/drain, 5% Remarks: WARPED JOINT	2						
	15.23	Water level, 5% of the vertical dimension	0						
15.23	Finish node type, gully reference number: RG 2	0							
Depth: 0.71									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	20	1.31	20	2	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 1	PLR Suffix : X
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Photo: 1_1_1_A.JPG

0m, Start node type, gully, reference number : RG 1

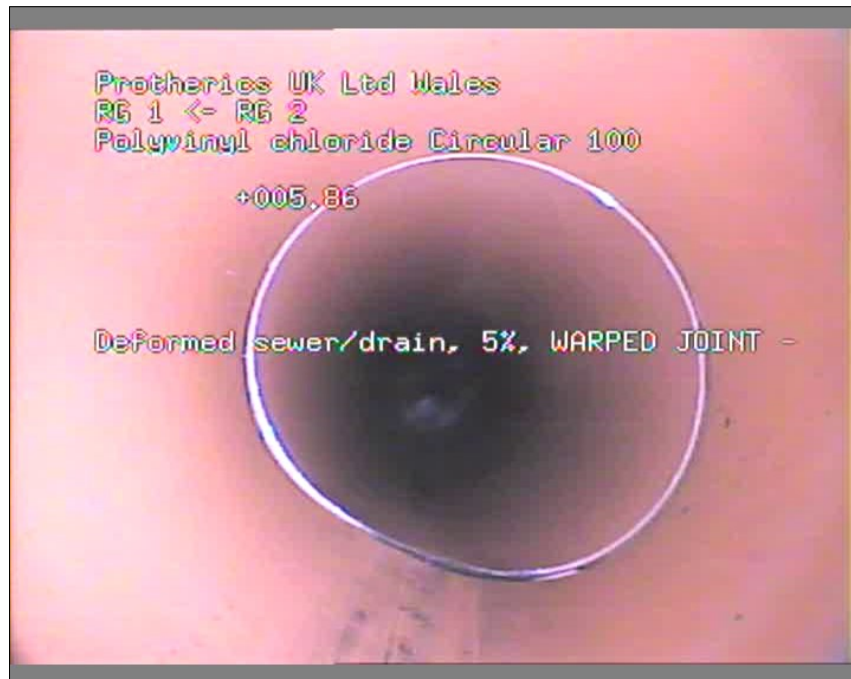


Photo: 1_1_4_A.JPG

5.86m, Deformed sewer/drain, 5%

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 2	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 1 (U/S) LAND DRAIN	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	LAND DRAIN RG 1 1.01
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.00 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	80 mm 80 mm Polyethylene		

Comment :

1:50 **Position**
Depth: 1.01

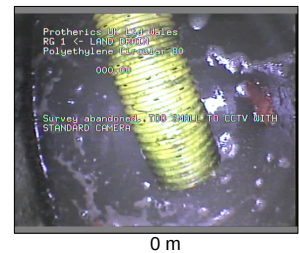
Observation

Grade

RG 1
0.00

Survey abandoned Remarks: TOO SMALL TO
CCTV WITH STANDARD CAMERA

0



STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 2	PLR Suffix : X
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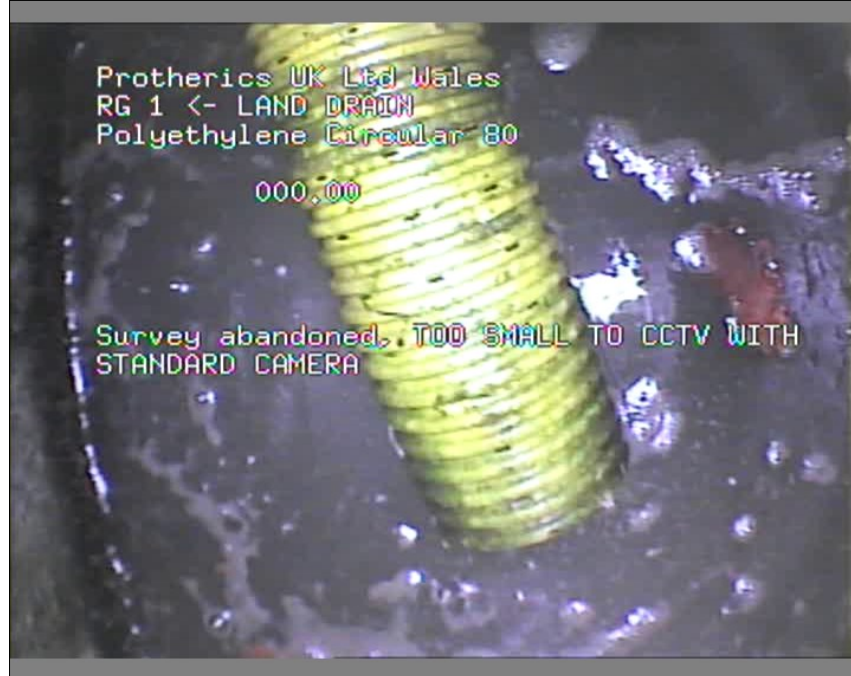


Photo: 3_3_7_A.JPG
 0m, Survey abandoned

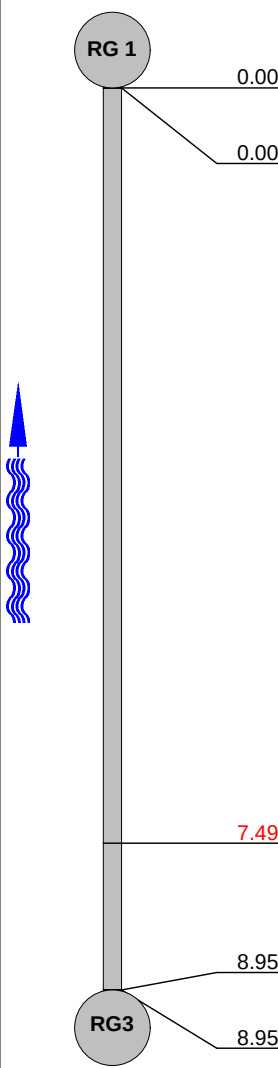
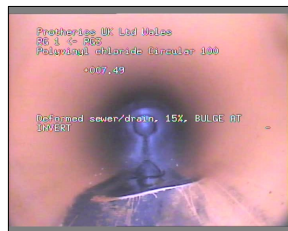
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 3	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 1 (U/S) RG3	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG3 0.92 RG 1 1.01
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Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 8.95 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride
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Comment :	INCOMING PIPE DEPTH IS 0.84M
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1:75	Position	Observation	Grade						
Depth: 1.01									
	0.00	Start node type, gully, reference number : RG 1	0						
	0.00	Water level, 10% of the vertical dimension	0						
	7.49	Deformed sewer/drain, 15% Remarks: BULGE AT INVERT	5						
	8.95	Water level, 0% of the vertical dimension	0						
	8.95	Finish node type, gully reference number: RG3	0						
Depth: 0.92									
									
7.49 m									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	165	18.44	165	5	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 3	PLR Suffix : X
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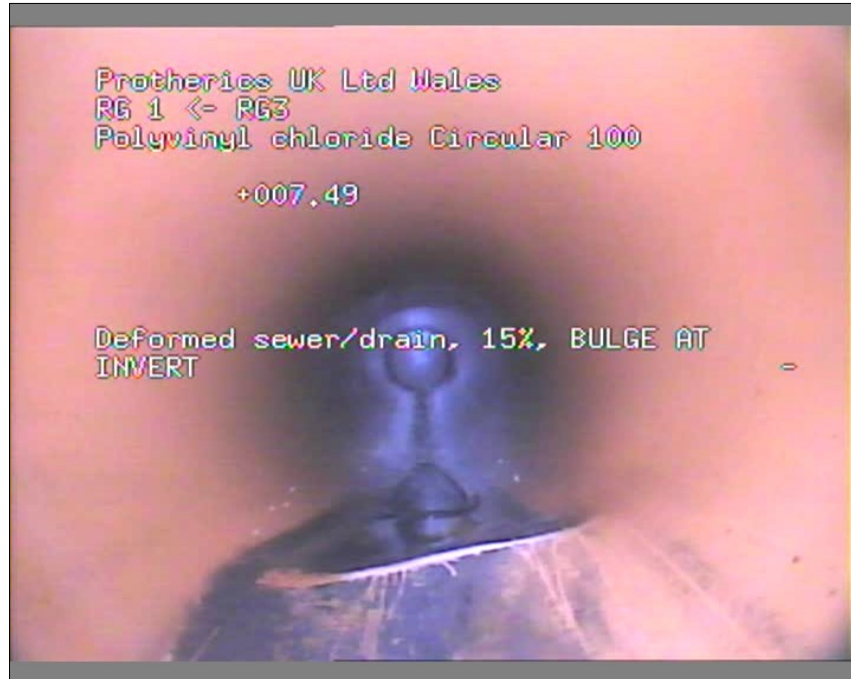


Photo: 4_4_10_A.JPG
 7.49m, Deformed sewer/drain, 15%

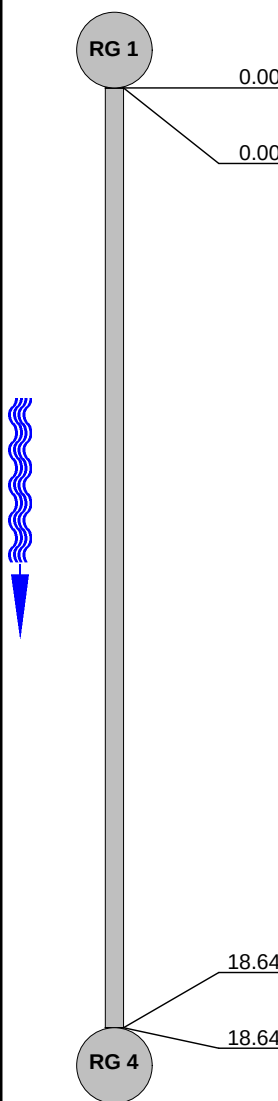
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 4	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 1 (D/S) RG 4	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 1 1.01 RG 4 1.1
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Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 18.64 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride
--	---	--	--

Comment :	DEPTH OF OUTGOING PIPE IS 0.85M
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1:150	Position	Observation	Grade						
Depth: 1.01									
	0.00	Start node type, gully, reference number : RG 1	0						
	0.00	Water level, 5% of the vertical dimension	0						
	18.64	Water level, 0% of the vertical dimension	0						
	18.64	Finish node type, gully reference number: RG 4	0						
Depth: 1.1									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 5	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 4 (U/S) RG 5	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 5 0.77 RG 4 1.1
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Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 12.01 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride
--	---	--	--

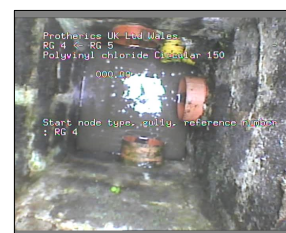
Comment :	INCOMING PIPE DEPTH IS 0.83M
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1:105 Position

Depth: 1.1

Observation

Grade



RG 4

0.00

Start node type, gully, reference number : RG 4

0

0.00

Water level, 5% of the vertical dimension

0

0 m

12.01

Water level, 5% of the vertical dimension

0

RG 5

12.01

Finish node type, gully reference number: RG 5

0

Depth: 0.77

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 5	PLR Suffix : X
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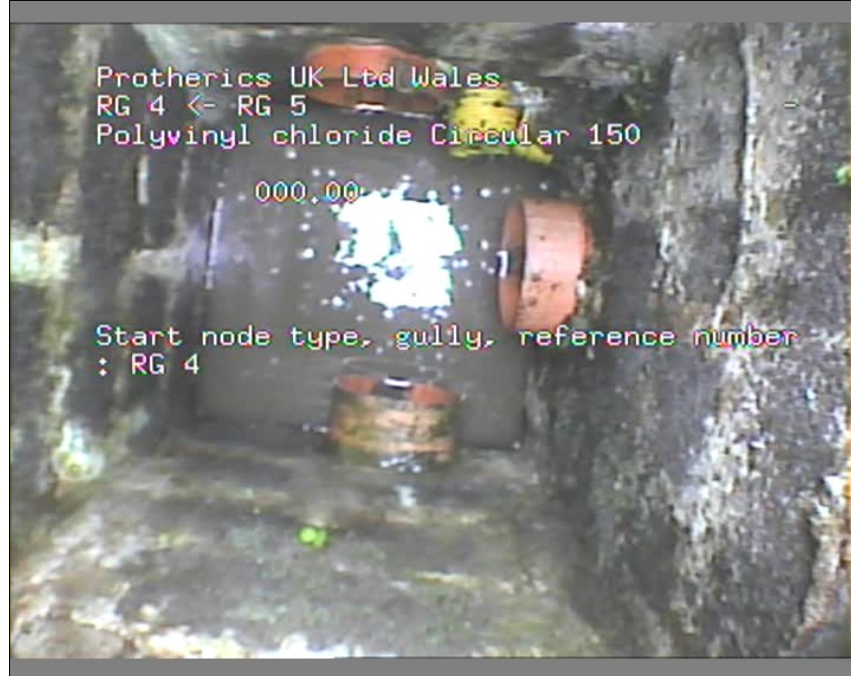


Photo: 6_6_17_A.JPG

0m, Start node type, gully, reference number : RG 4

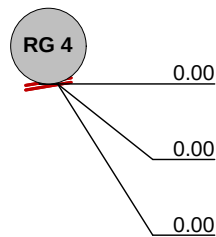
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 6	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 4 (U/S) LAND DRAIN	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	LAND DRAIN RG 4 1.1
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.00 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	80 mm 80 mm Polyethylene		

Comment :

1:50 Position
Depth: 1.1



Observation

General remark Remarks: 2 X 80MM LAND DRAIN

General remark Remarks: 1 IS BUTTED UP TOO CLOSE TO THE OTHER

Survey abandoned Remarks: TOO SMALL TO CCTV WITH STANDARD CAMERA

Grade

0

0

0



0 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 6	PLR Suffix : X
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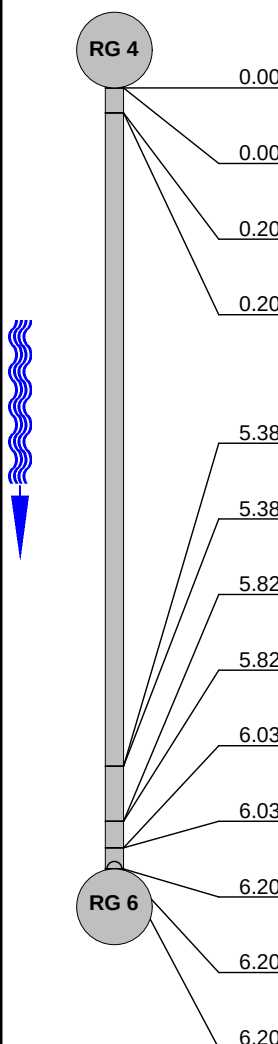
Photo: 7_7_21_A.JPG
 0m, General remark

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 7	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 4 (D/S) RG 6	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 4 1.1 RG 6
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 6.20 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride		

Comment : **OUTGOING PIPE IS 0.99M DEEP**

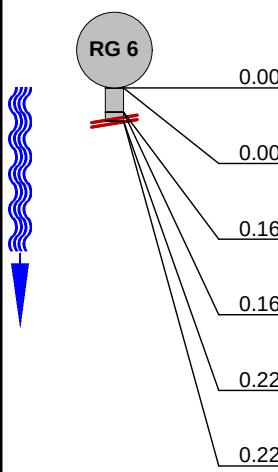
1:60 Depth: 1.1	Position	Observation	Grade						
	0.00	Start node type, gully, reference number : RG 4	0						
	0.00	Water level, 5% of the vertical dimension	0						
	0.20	Line deviates right	0						
	0.20	Line deviates down	0						
	5.38	Line deviates left	0						
	5.38	Line deviates down	0						
	5.82	Dimension changes, 80mm high, 80mm wide	0						
	5.82	Material changes, polyethylene Remarks: RIBBED LAND DRAIN	0						
	6.03	Dimension changes, 150mm high, 150mm wide	0						
	6.03	Material changes, polyvinyl chloride	0						
	6.20	Junction, at 12 o'clock, diameter 150mm Remarks: RG 6	0						
	6.20	Water level, 5% of the vertical dimension	0						
	6.20	Finish node type, gully reference number: RG 6	0						
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 8	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 6 (D/S) SWCP 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 6 SWCP 1 0.92
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.22 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride 		

Comment :

1:50	Position	Observation	Grade						
	0.00	Start node type, gully, reference number : RG 6	0						
	0.00	Water level, 5% of the vertical dimension	0						
	0.16	Dimension changes, 80mm high, 80mm wide	0						
	0.16	Material changes, polyethylene Remarks: LAND DRAIN	0						
	0.22	General remark Remarks: UNABLE TO PASS SIZE AND MATERIAL CHANGE	0						
	0.22	Survey abandoned Remarks: AT SIZE AND MATERIAL CHANGE	0						
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 9	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place :	Protherics UK Ltd	Location details:	U/S MH :	RG 6
Road :	Wales	Catchment:	U/S Depth :	
Location	Property with buildings	Pipe Shape :	D/S MH :	SWCP 1
Inspection	SWCP 1 (U/S) RG 6	Pipe Length	D/S Depth :	0.92

Use:	Surface water	Pipe Width :	150 mm
Year laid :		Pipe Diameter :	150 mm
Purpose :	Sample survey to determine asset condition	Pipe material :	Polyvinyl chloride
Total length :	9.75 m	Lining :	

Comment : DEPTH OF INCOMING PIPE IS 0.81M

1:90	Position	Observation	Grade
Depth: 0.92			
	0.00	Start node type, catchpit, reference number : SWCP 1	0
	0.00	Water level, 25% of the vertical dimension	0
	0.00	General remark Remarks: OVERLAP SURVEY FROM SURVEY SECTION 8	0
	9.75	Dimension changes, 80mm high, 80mm wide	0
	9.75	Material changes, polyethylene Remarks: LAND DRAIN	0
	9.75	General remark Remarks: OVERLAP SURVEY POINT FROM SURVEY SECTION 8	0
	9.75	Water level, 5% of the vertical dimension	0
	9.75	Finish node type, other special chamber reference number: OVERLAP SURVEY POINT Remarks: / SIZE AND MATERIAL CHANGE	0
	9.75		

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 9	PLR Suffix : X
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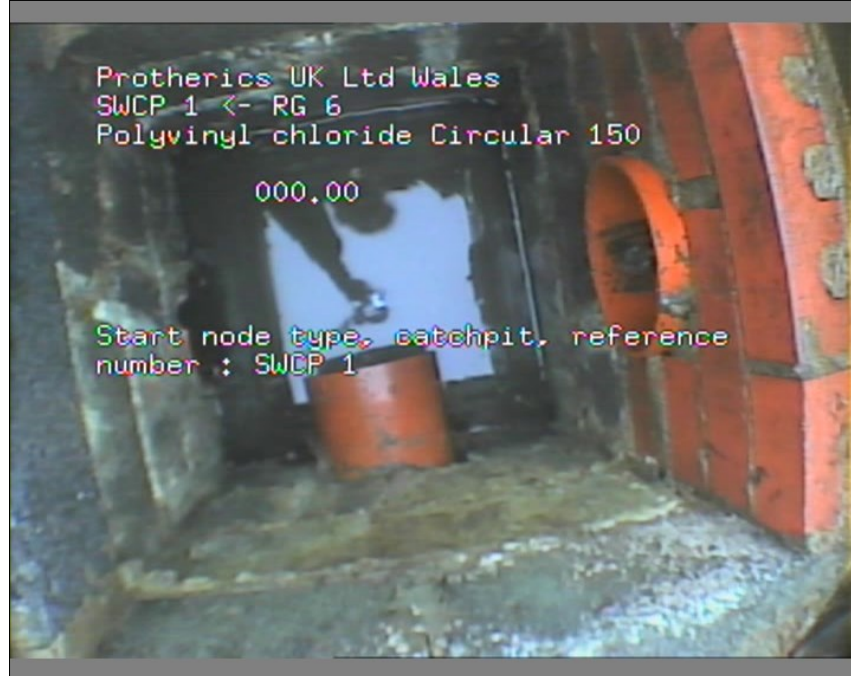


Photo: 10_10_44_A.JPG

0m, Start node type, catchpit, reference number : SWCP 1

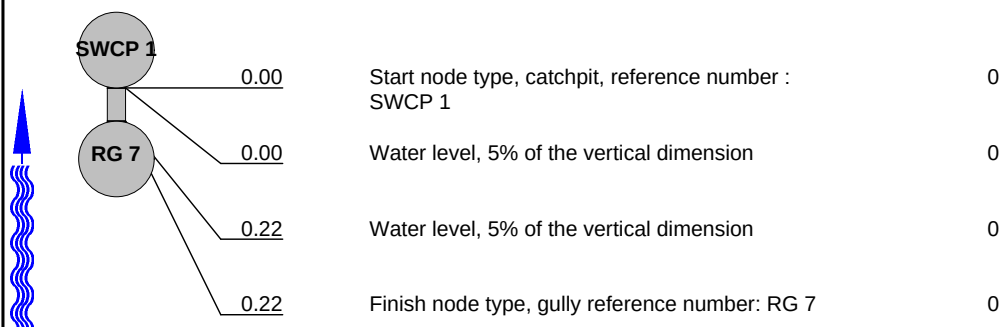
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 10	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 1 (U/S) RG 7	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 7 0.42 SWCP 1 0.92
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.22 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride		

Comment :

1:50 Position Observation Grade
Depth: 0.92



Depth: 0.42

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 11	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

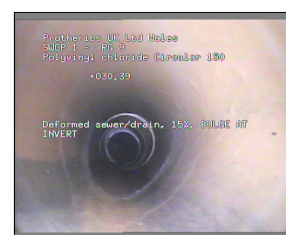
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 1 (D/S) RG 9	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SWCP 1 0.92 RG 9 0.51
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 39.62 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride 		

Comment :

1:315 Position
Depth: 0.92

Observation

Grade



SWCP 1

0.00

Start node type, gully, reference number : SWCP 1

0

0.00

Water level, 0% of the vertical dimension

0

30.39 m

29.57

Line deviates left

0

29.57

Line deviates down

0

30.39

Deformed sewer/drain, 15% Remarks: BULGE AT INVERT

5

31.25

Junction, at 10 o'clock, diameter 150mm
Remarks: RG 8

0

35.10

Line deviates left

0

35.10

Line deviates down

0

39.62

Water level, 5% of the vertical dimension

0

39.62

Finish node type, gully reference number: RG 9

0

RG 9

Depth: 0.51

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	165	4.16	165	5	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 11	PLR Suffix : X
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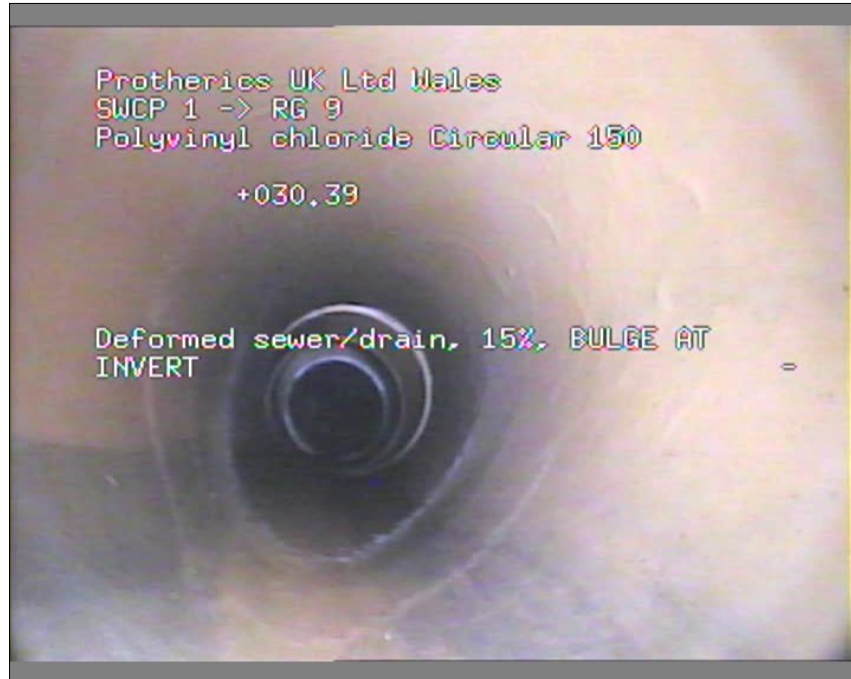


Photo: 12_12_60_A.JPG
 30.39m, Deformed sewer/drain, 15%

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 12	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

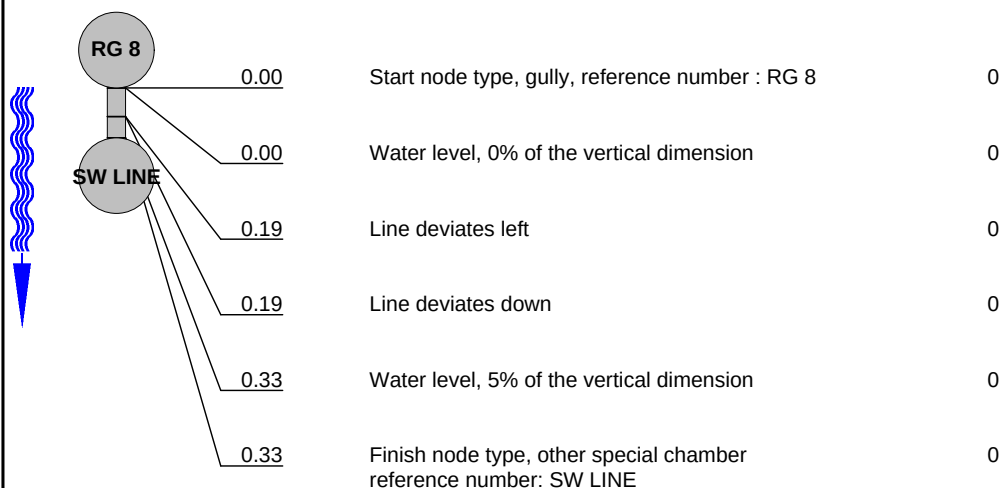
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 8 (D/S) SW LINE	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 8 0.36 SW LINE
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.33 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride		

Comment :

1:50 **Position**
Depth: 0.36

Observation

Grade



STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 13	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 10 (U/S) RG 9	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 9 0.51 RG 10 0.44
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 21.81 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride		

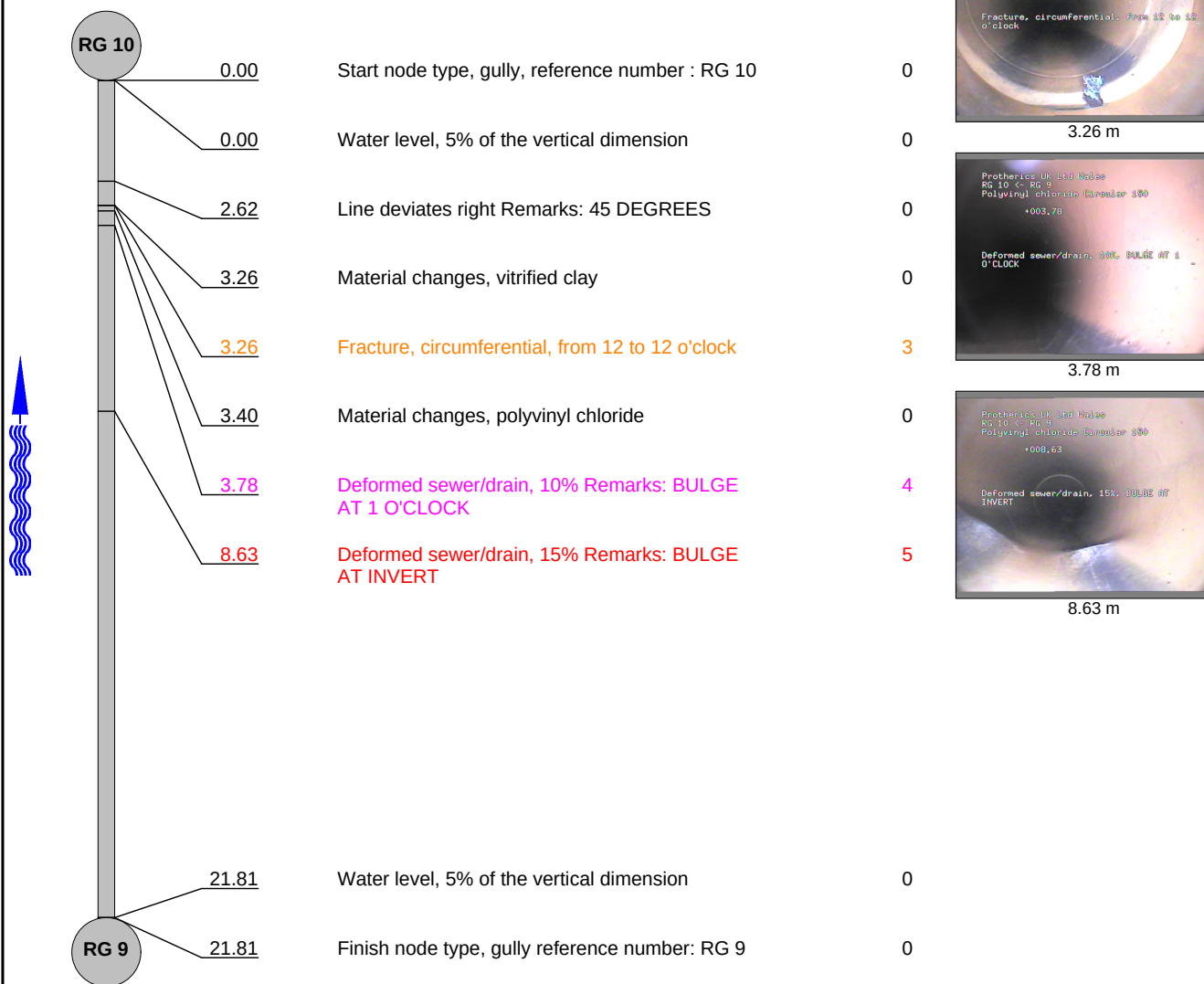
Comment :

1:180 Position

Depth: 0.44

Observation

Grade



Depth: 0.51

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
3	165	13.07	285	5	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 13	PLR Suffix : X
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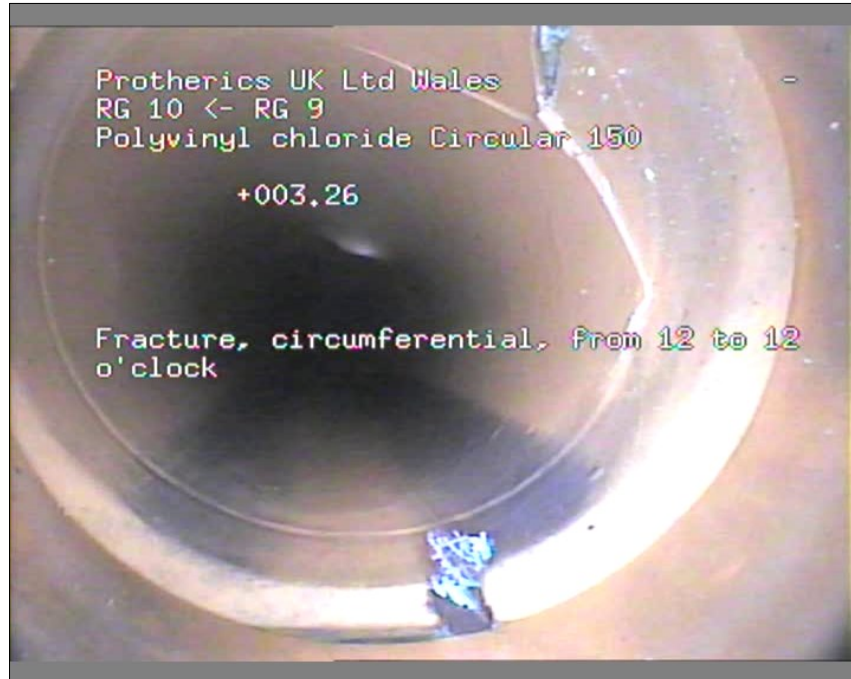


Photo: 14_14_81_A.JPG
 3.26m, Fracture, circumferential, from 12 to 12 o'clock

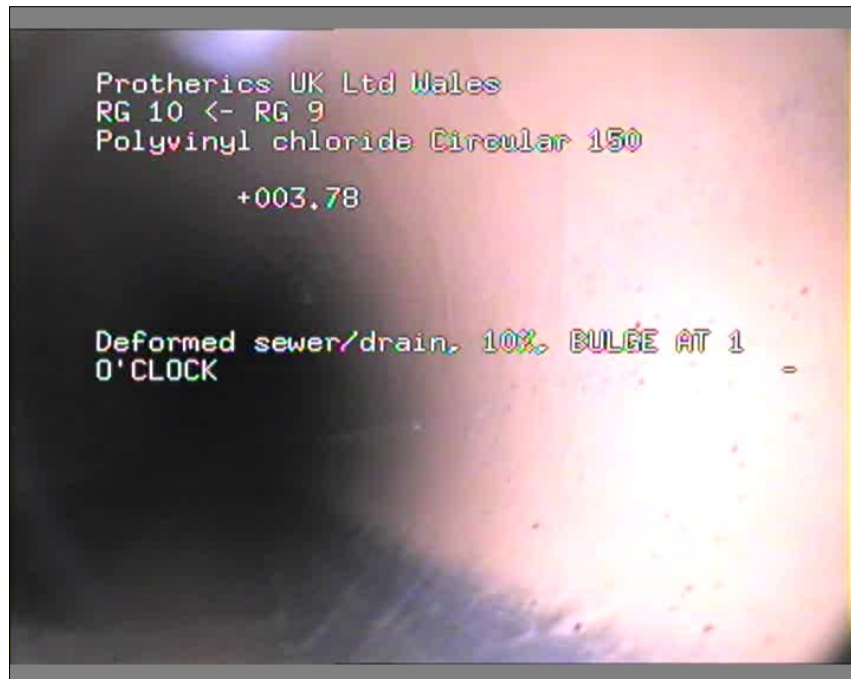


Photo: 14_14_82_A.JPG
 3.78m, Deformed sewer/drain, 10%

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 13	PLR Suffix : X
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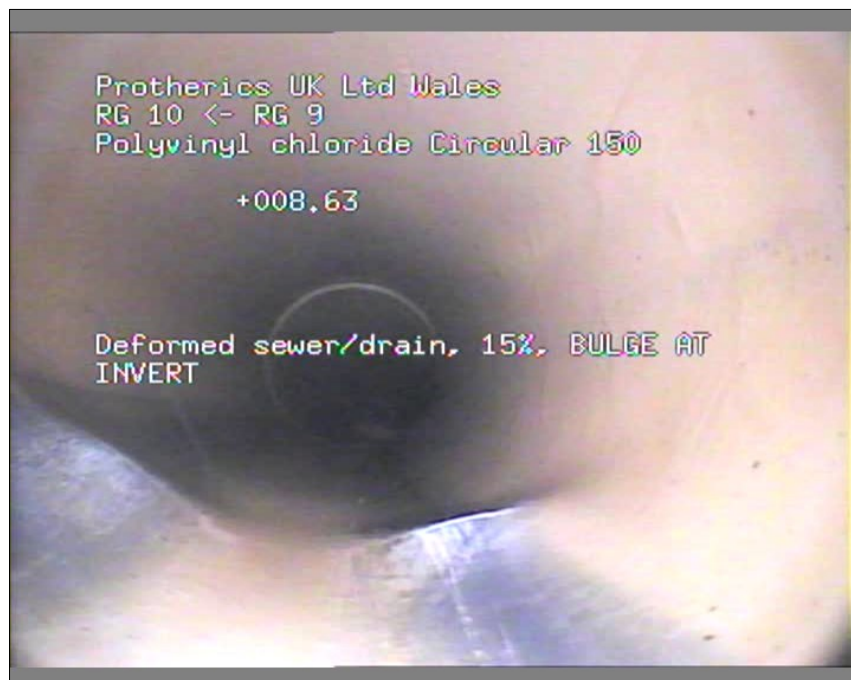


Photo: 14_14_83_A.JPG
 8.63m, Deformed sewer/drain, 15%

Inspection report

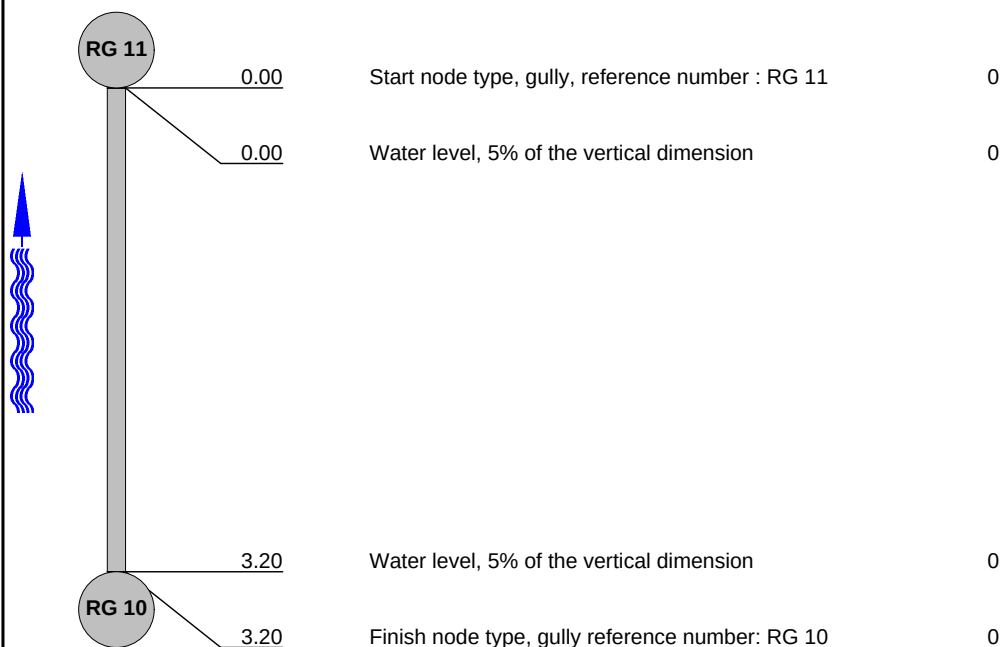
Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 14	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 11 (U/S) RG 10	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 10 0.44 RG 11 0.59
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Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 3.20 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride
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Comment :	INCOMING PIPE DEPTH IS 0.52M
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1:50 Position Observation Grade
Depth: 0.59



Depth: 0.44

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

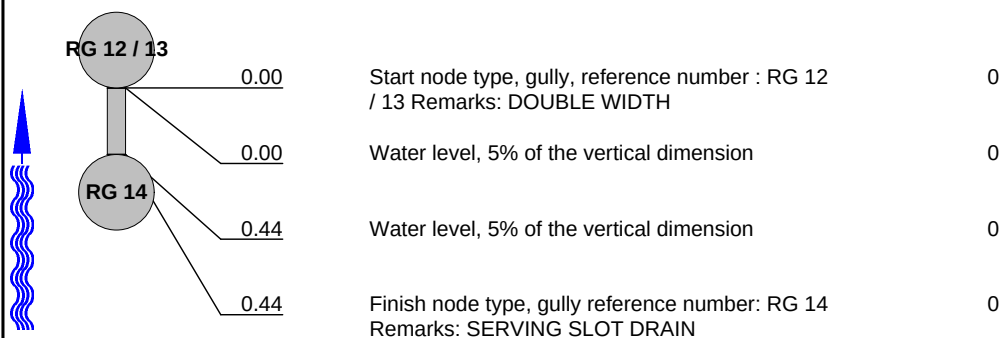
Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 15	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 12 / 13 (U/S) RG 14	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 14 0.34 RG 12 / 13 0.89
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Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.44 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride
--	--	--	--

Comment :	DEPTH OF INCOMING PIPE IS 0.46M
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1:50 Position Observation Grade
Depth: 0.89



Depth: 0.34

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 16	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 12 / 13 (U/S) LAND DRAIN	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	LAND DRAIN RG 12 / 13 0.89
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.00 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	80 mm 80 mm Polyethylene		

Comment :

1:50 Position
Depth: 0.89

Observation

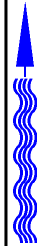
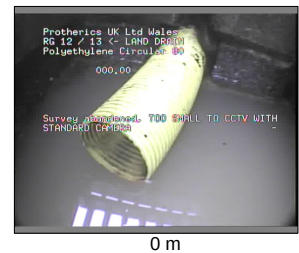
Grade

RG 12 / 13

0.00

Survey abandoned Remarks: TOO SMALL TO
CCTV WITH STANDARD CAMERA

0



STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 16	PLR Suffix : X
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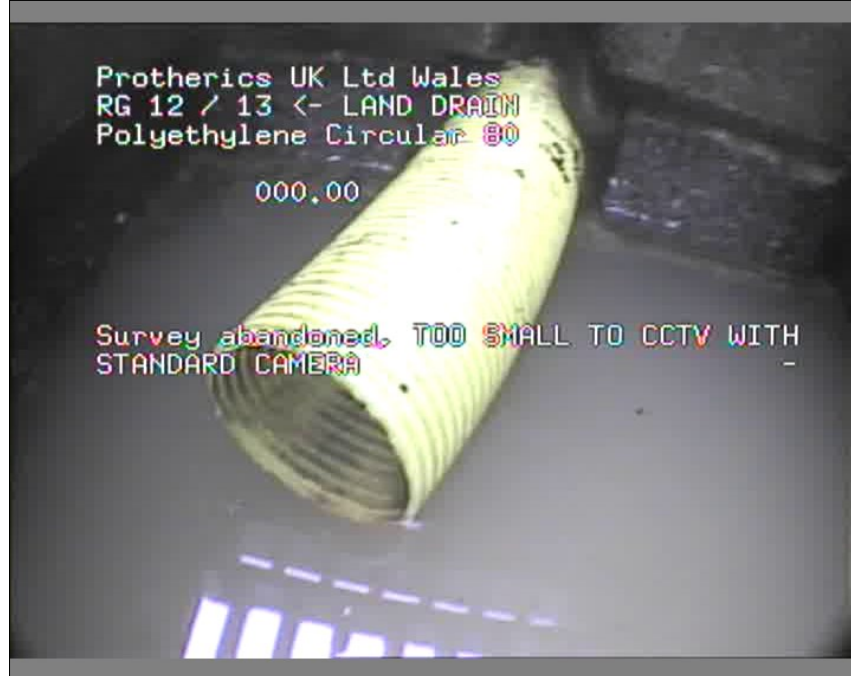
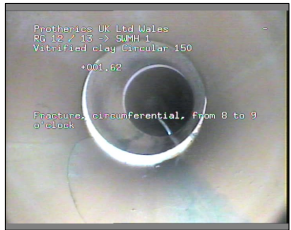
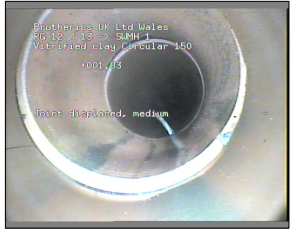
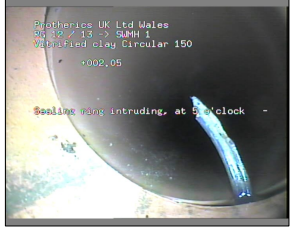
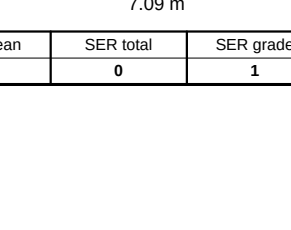


Photo: 17_17_91_A.JPG
 0m, Survey abandoned

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 17	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place :	Protherics UK Ltd	Location details:	U/S MH :	RG 12 / 13
Road :	Wales	Catchment:	U/S Depth :	0.89
Location	Property with buildings	Pipe Shape :	D/S MH :	SWMH 1
Inspection	RG 12 / 13 (D/S) SWMH 1	Pipe Length	D/S Depth :	0.47
Use:	Surface water	Pipe Width :	150 mm	
Year laid :		Pipe Diameter :	150 mm	
Purpose :	Sample survey to determine asset condition	Pipe material :	Vitrified clay	
Total length :	10.96 m	Lining :		
Comment :	DEPTH OF OUTGOING PIPE IS 0.48M			

1:90 Depth: 0.89	Position	Observation	Grade	
	0.00	Start node type, gully, reference number : RG 12 / 13 Remarks: DOUBLE GULLY	0	
	0.00	Water level, 5% of the vertical dimension	0	
	1.62	Fracture, circumferential, from 8 to 9 o'clock	3	1.62 m
	1.83	Joint displaced, medium	1	
	1.83	Line deviates right	0	1.83 m
	2.05	Sealing ring intruding, at 5 o'clock	1	
	4.15	Line deviates right Remarks: SLIGHT	0	2.05 m
	7.09	Fracture, longitudinal, at 1 o'clock	3	
	7.09	Fracture, longitudinal, at 8 o'clock	3	7.09 m
	7.33 S01	Fracture, longitudinal, at 2 o'clock, Start	3	
	7.33 S02	Fracture, longitudinal, at 8 o'clock, Start	3	
	10.96 F01	Fracture, longitudinal, at 2 o'clock, End	3	7.09 m
	10.96 F02	Fracture, longitudinal, at 8 o'clock, End	3	
	10.96	Water level, 5% of the vertical dimension	0	
	10.96	Finish node type, inspection chamber reference number: SWMH 1	0	
	Depth: 0.47			
STR no def	STR peak	STR mean	STR total	STR grade
6	160	37.68	413	4
SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 17	PLR Suffix : X
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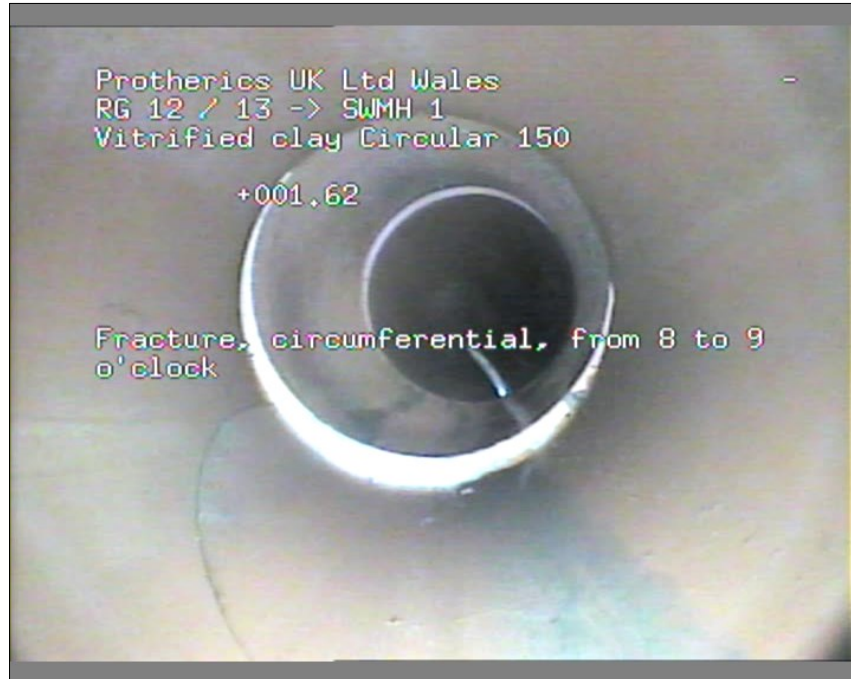


Photo: 18_18_94_A.JPG
 1.62m, Fracture, circumferential, from 8 to 9 o'clock



Photo: 18_18_95_A.JPG
 1.83m, Joint displaced, medium

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 17	PLR Suffix : X
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Photo: 18_18_97_A.JPG
 2.05m, Sealing ring intruding, at 5 o'clock



Photo: 18_18_99_A.JPG
 7.09m, Fracture, longitudinal, at 1 o'clock

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 17	PLR Suffix : X
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Photo: 18_18_100_A.JPG
 7.09m, Fracture, longitudinal, at 8 o'clock

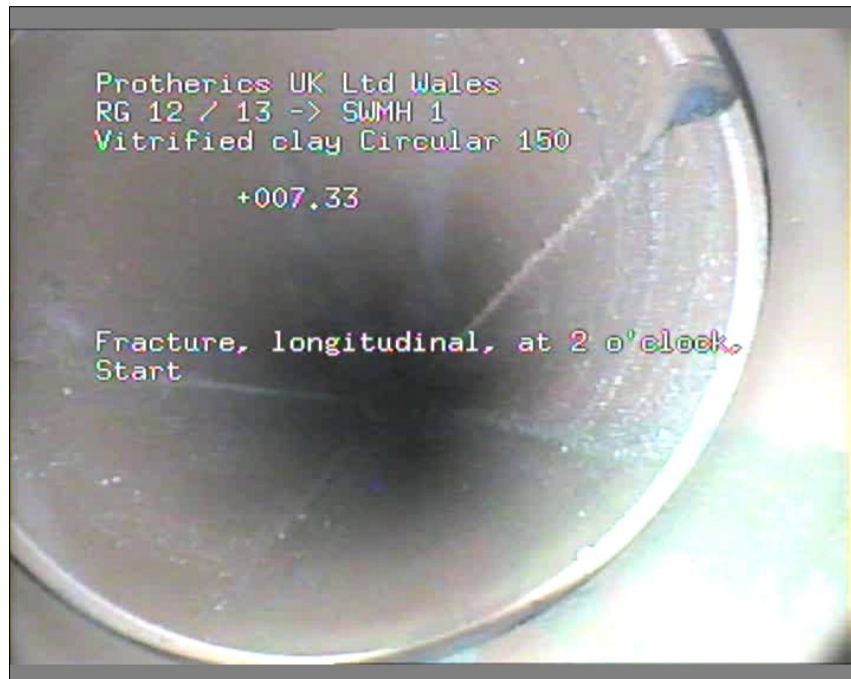


Photo: 18_18_101_A.JPG
 7.33m, Fracture, longitudinal, at 2 o'clock, Start

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 17	PLR Suffix : X
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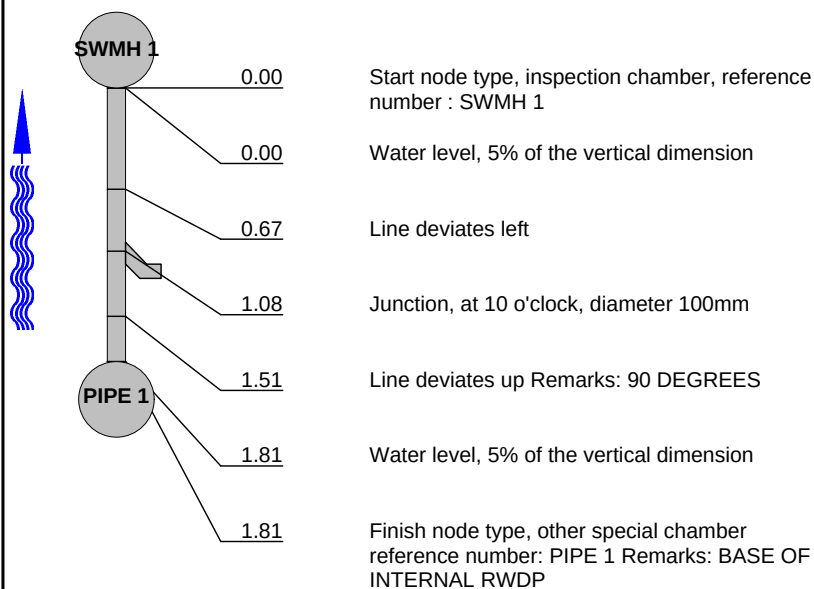
Photo: 18_18_102_A.JPG
 7.33m, Fracture, longitudinal, at 8 o'clock, Start

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 18	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWMH 1 (U/S) PIPE 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 1 0.38 SWMH 1 0.47
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 1.81 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

1:50 Position
Depth: 0.47
Observation
Grade

Depth: 0.38

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 18	PLR Suffix : X
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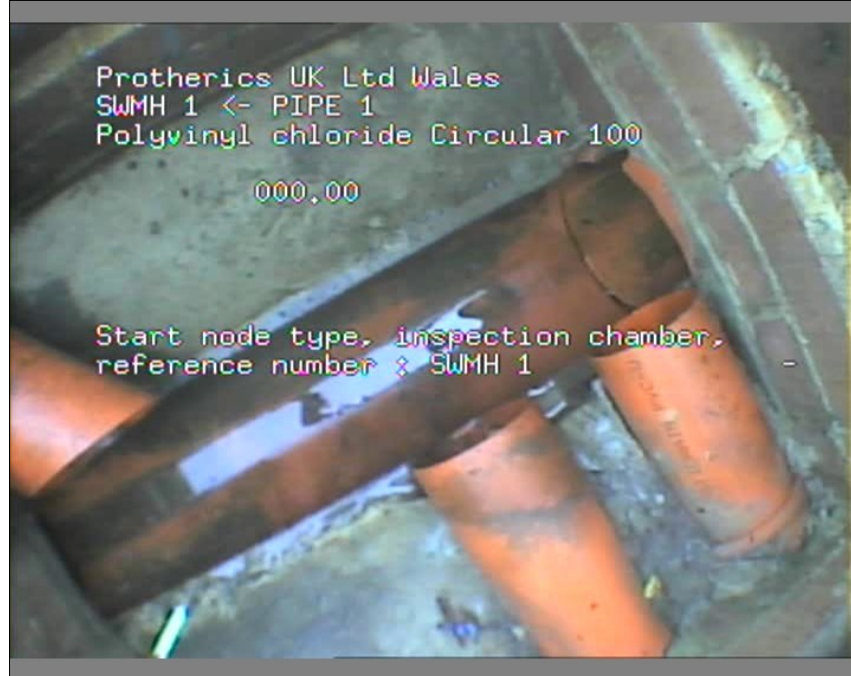


Photo: 19_19_107_A.JPG

0m, Start node type, inspection chamber, reference number : SWMH 1

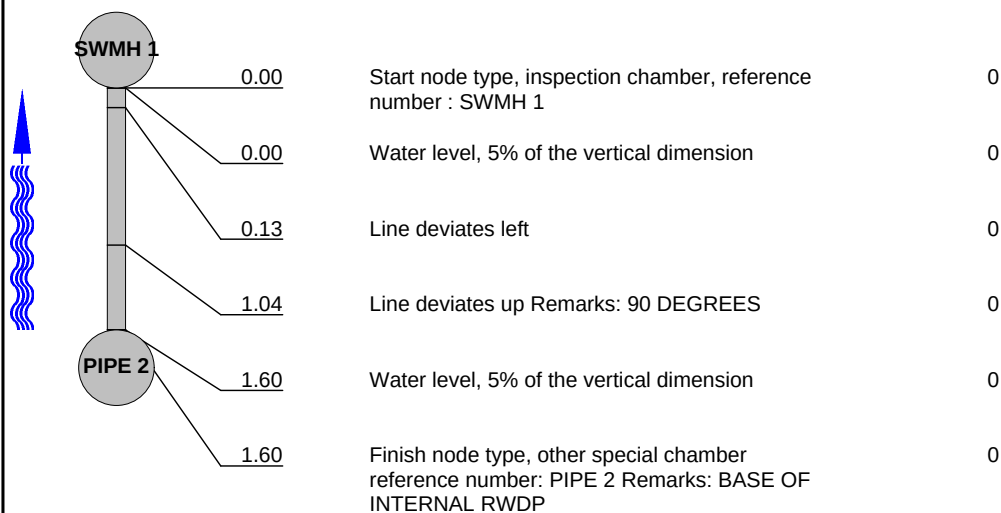
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 19	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWMH 1 (U/S) PIPE 2	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 2 0.38 SWMH 1 0.47
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 1.60 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:50 Position Observation Grade
Depth: 0.47



Depth: 0.38

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

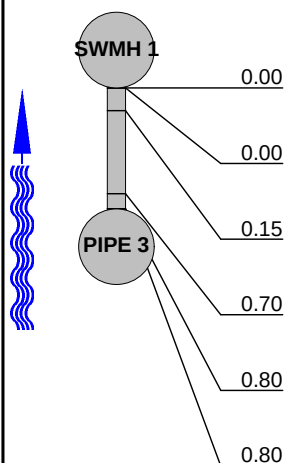
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 20	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place :	Protherics UK Ltd	Location details:	U/S MH :	PIPE 3
Road :	Wales	Catchment:	U/S Depth :	0.34
Location	Property with buildings	Pipe Shape :	D/S MH :	SWMH 1
Inspection	SWMH 1 (U/S) PIPE 3	Pipe Length	D/S Depth :	0.47
Use:	Surface water	Pipe Width :	100 mm	
Year laid :		Pipe Diameter :	100 mm	
Purpose :	Sample survey to determine asset condition	Pipe material :	Polyvinyl chloride	
Total length :	0.80 m	Lining :		

Comment :

1:50	Position	Observation	Grade
Depth: 0.47			



Depth: 0.34

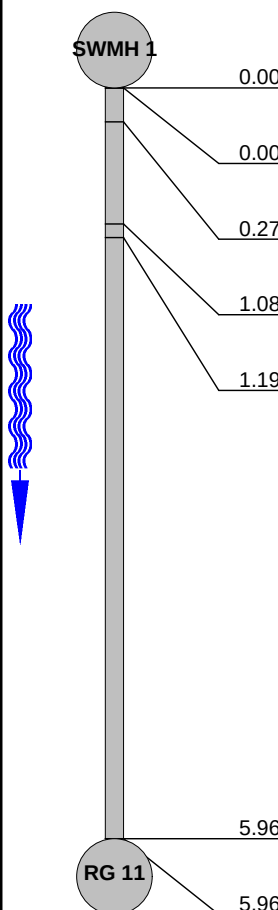
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 21	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWMH 1 (D/S) RG 11	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SWMH 1 0.47 RG 11 0.59
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 5.96 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:60	Position	Observation	Grade						
Depth: 0.47									
	SWMH 1	Start node type, inspection chamber, reference number : SWMH 1	0						
	0.00	Water level, 5% of the vertical dimension	0						
	0.27	Line deviates left	0						
	1.08	General remark Remarks: 'Y' JUNCTION WITH PERFORATED LAND DRAIN JOINING	0						
	1.19	Line deviates left Remarks: THROUGH 'Y' JUNCTION	0						
	5.96	Water level, 5% of the vertical dimension	0						
	RG 11	Finish node type, gully reference number: RG 11	0						
Depth: 0.59									
									
1.08 m									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 21	PLR Suffix : X
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Photo: 22_22_129_A.JPG
 1.08m, General remark

Inspection report

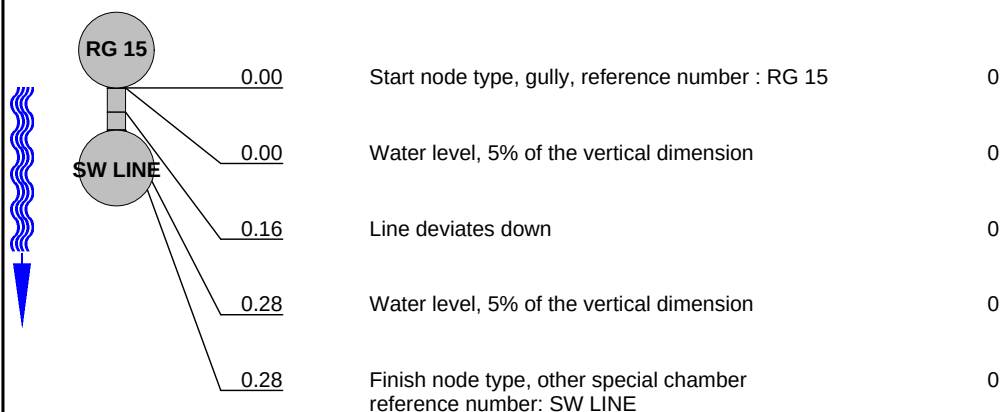
Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 22	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 15 (D/S) SW LINE	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 15 0.4 SW LINE
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Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.28 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride
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Comment :	OUTGOING PIPE DEPTH IS 0.32M
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1:50 Position Observation Grade
Depth: 0.4



STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

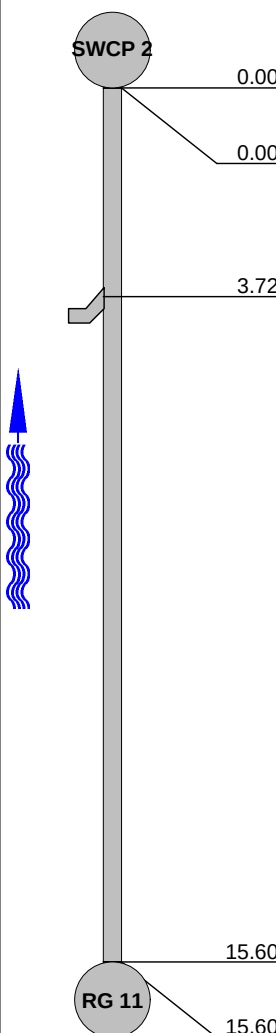
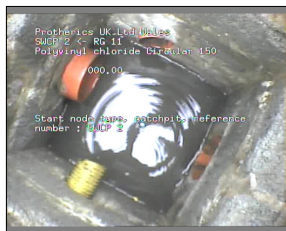
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 23	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 2 (U/S) RG 11	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 11 0.59 SWCP 2 0.84
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Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 15.60 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride
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Comment :	DEPTH OF INCOMING PIPE IS 0.66M
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1:135	Position	Observation	Grade
Depth: 0.84			
	0.00	Start node type, catchpit, reference number : SWCP 2	0
	0.00	Water level, 5% of the vertical dimension	0
	3.72	Connection other than junction, at 1 o'clock, diameter 100mm Remarks: RG 15	0
	15.60	Water level, 5% of the vertical dimension	0
	15.60	Finish node type, gully reference number: RG 11	0
Depth: 0.59			
			
0 m			

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 23	PLR Suffix : X
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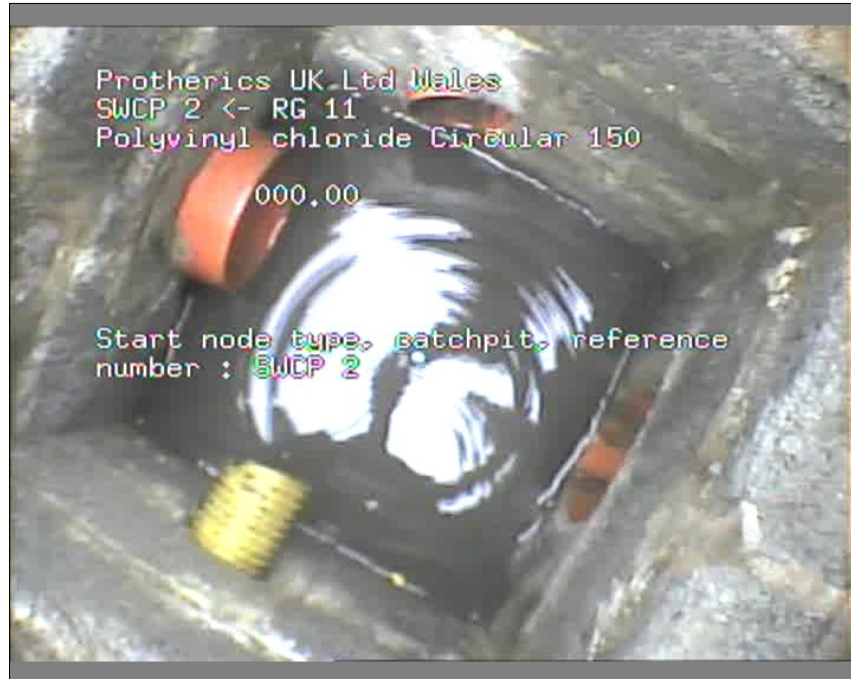


Photo: 24_24_138_A.JPG

0m, Start node type, catchpit, reference number : SWCP 2

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 24	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 2 (U/S) LAND DRAIN	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	LAND DRAIN SWCP 2 0.84
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.00 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	80 mm 80 mm Polyethylene		

Comment :

1:50 **Position**
Depth: 0.84

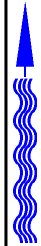
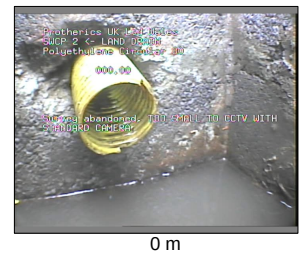
Observation

Grade

SWCP 2
0.00

Survey abandoned Remarks: TOO SMALL TO
CCTV WITH STANDARD CAMERA

0



STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 24	PLR Suffix : X
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Photo: 25_25_143_A.JPG
0m, Survey abandoned

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 25	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

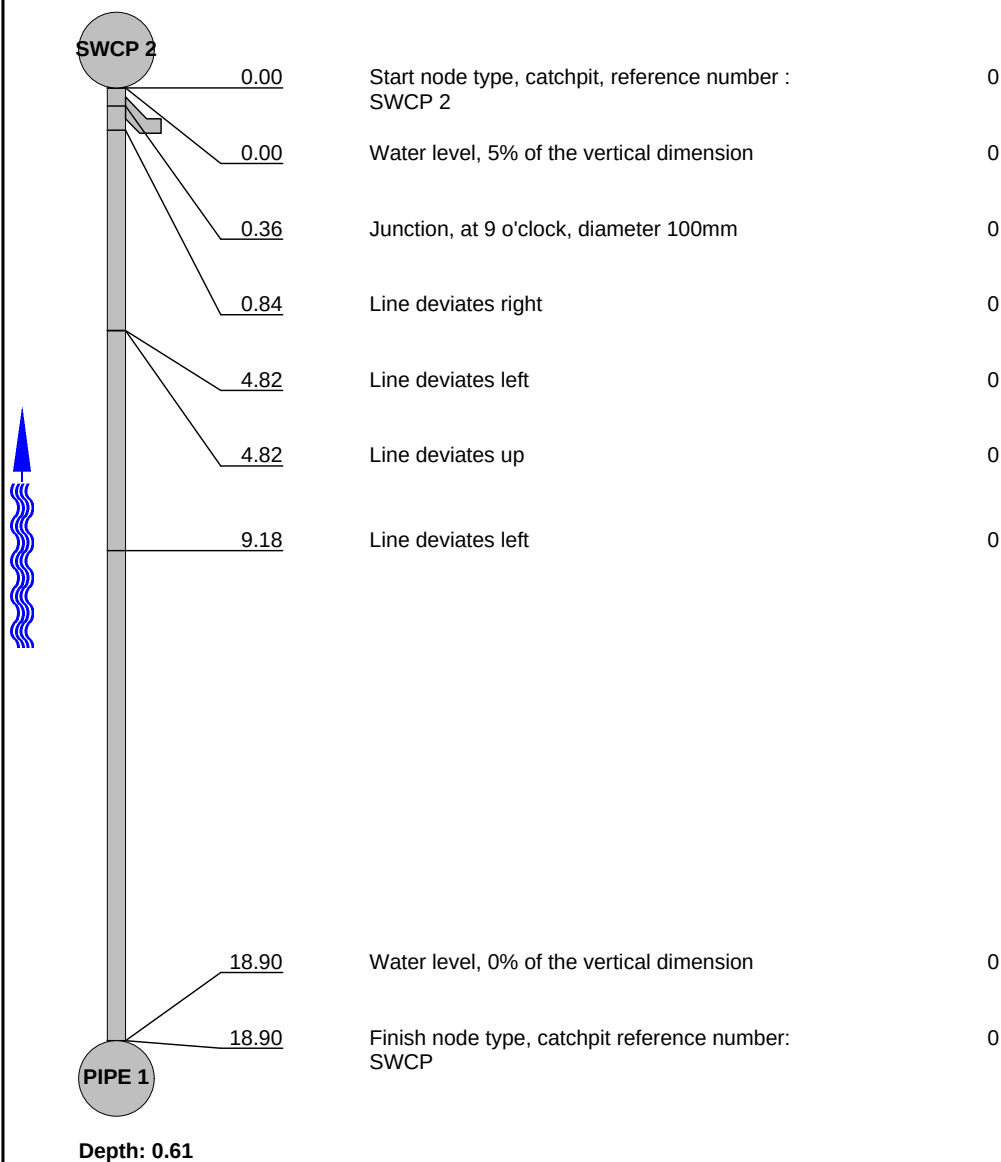
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 2 (U/S) PIPE 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 1 0.61 SWCP 2 0.84
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 18.90 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:150 Position
Depth: 0.84

Observation

Grade



Depth: 0.61

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 25	PLR Suffix : X
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Photo: 26_26__A.JPG
 4.82m, Line deviates left

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 26	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 3 (U/S) SWCP 2	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SWCP 2 0.84 SWCP 3 1.07
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 12.19 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride 		

Comment : **DEPTH OF INCOMING PIPE IS 0.90M**

1:105 Position

Depth: 1.07

Observation

Grade

SWCP 3

0.00

Start node type, catchpit, reference number :
SWCP 3

0



0 m

0.00

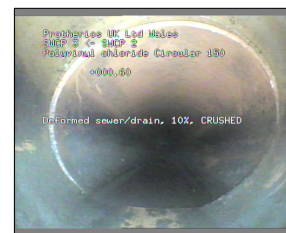
Water level, 0% of the vertical dimension

0

0.60

Deformed sewer/drain, 10% Remarks:
CRUSHED

4

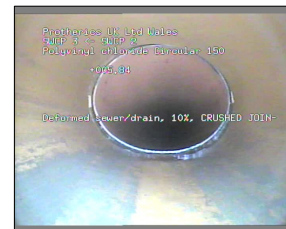


0.6 m

5.84

Deformed sewer/drain, 10% Remarks:
CRUSHED JOINT

4



5.84 m

12.19

Water level, 5% of the vertical dimension

0

SWCP 2

12.19

Finish node type, catchpit reference number:
SWCP 2

0

Depth: 0.84

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	80	13.13	160	4	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 26	PLR Suffix : X
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Photo: 27_27_155_A.JPG
 0m, Start node type, catchpit, reference number : SWCP 3

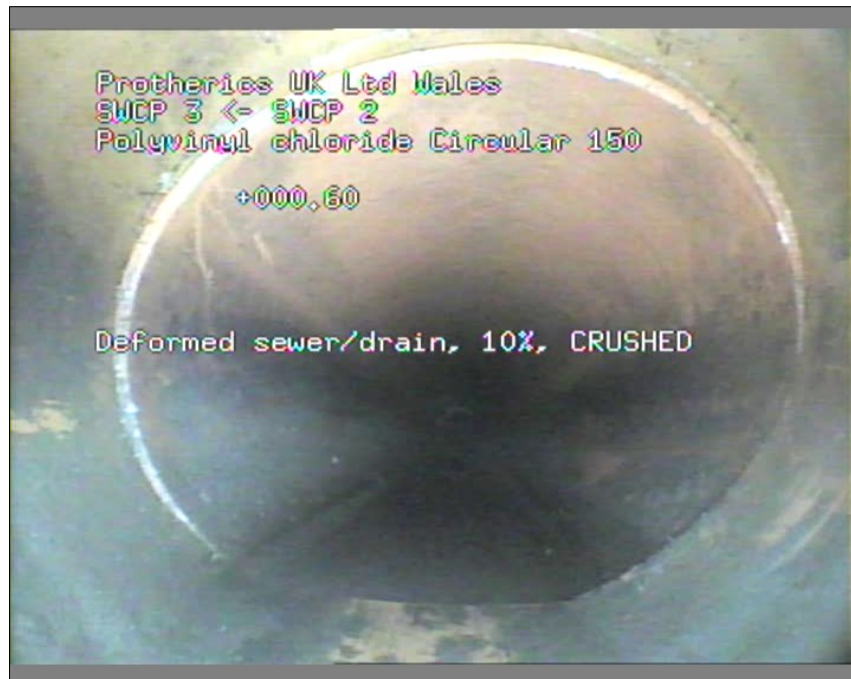


Photo: 27_27_160_A.JPG
 0.6m, Deformed sewer/drain, 10%

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 26	PLR Suffix : X
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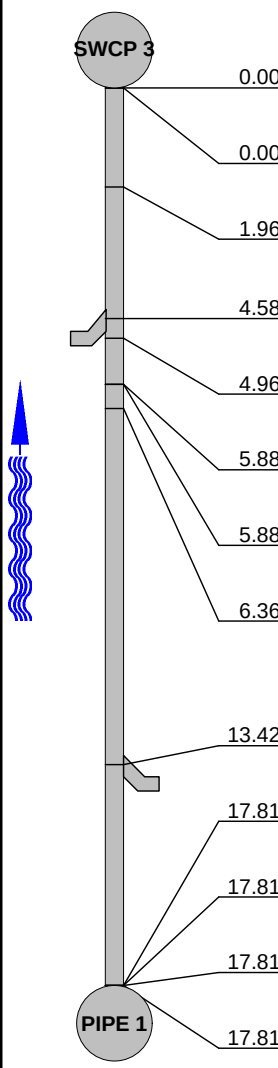
Photo: 27_27_161_A.JPG
 5.84m, Deformed sewer/drain, 10%

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 27	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 3 (U/S) PIPE 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 1 0.9 SWCP 3 1.07
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 17.81 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride 		

Comment :

1:150	Position	Observation	Grade						
Depth: 1.07									
	0.00	Start node type, catchpit, reference number : SWCP 3	0						
	0.00	Water level, 0% of the vertical dimension	0						
	1.96	Line deviates left Remarks: SLIGHT	0						
	4.58	Junction, at 3 o'clock, diameter 100mm Remarks: RWDP	0						
	4.96	Line deviates left	0						
	5.88	Line deviates left	0						
	5.88	Line deviates up	0						
	6.36	Dimension changes, 100mm high, 100mm wide	0						
	13.42	Junction, at 10 o'clock, diameter 100mm	0						
	17.81	Dimension changes, 80mm high, 80mm wide	0						
	17.81	Material changes, polyethylene Remarks: LAND DRAIN	0						
	17.81	Water level, 0% of the vertical dimension	0						
PIPE 1	17.81	Finish node type, other special chamber reference number: PIPE 1 Remarks: LAND DRAIN	0						
Depth: 0.9									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

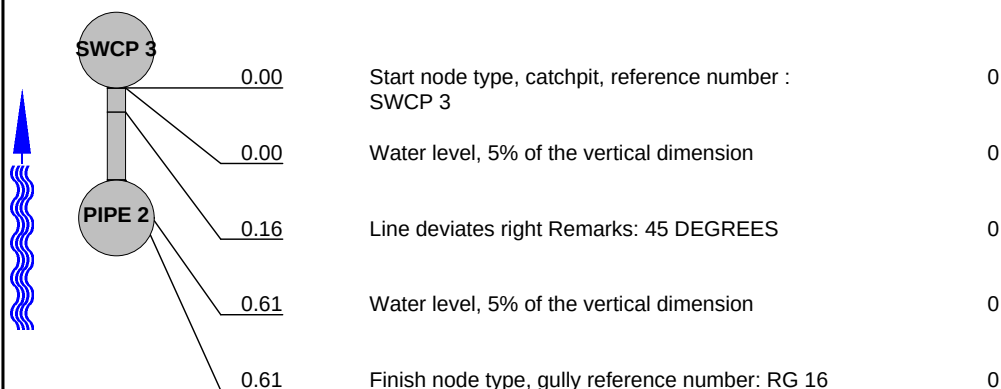
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 28	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 3 (U/S) PIPE 2	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 2 0.39 SWCP 3 1.07
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.61 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:50 Position Observation Grade
Depth: 1.07



Depth: 0.39

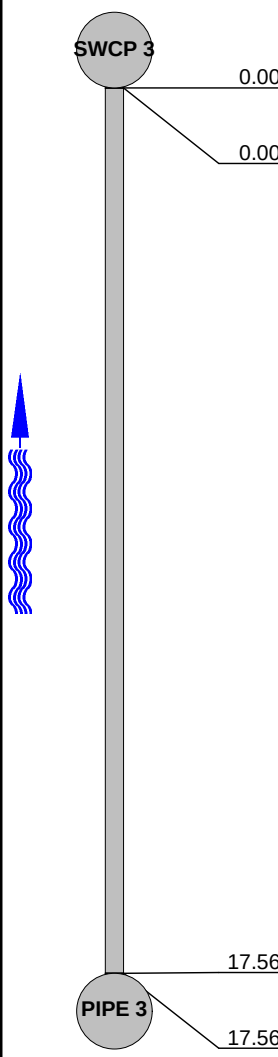
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 29	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 3 (U/S) PIPE 3	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 3 0.93 SWCP 3 1.07
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 17.56 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride		

Comment :

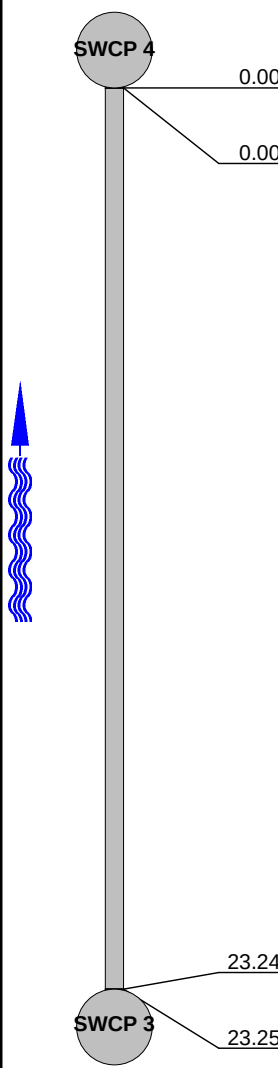
1:150	Position	Observation	Grade						
Depth: 1.07									
	0.00	Start node type, catchpit, reference number : SWCP 3	0						
	0.00	Water level, 5% of the vertical dimension	0						
	17.56	Water level, 0% of the vertical dimension	0						
	17.56	Finish node type, catchpit reference number: SWCP 9	0						
Depth: 0.93									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 30	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 4 (U/S) SWCP 3	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SWCP 3 1.07 SWCP 4 1.89
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 23.25 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	225 mm 225 mm Polyethylene		

Comment :

1:195	Position	Observation	Grade						
Depth: 1.89									
	0.00	Start node type, catchpit, reference number : SWCP 4	0						
	0.00	Water level, 5% of the vertical dimension	0						
	23.24	Water level, 5% of the vertical dimension	0						
	23.25	Finish node type, catchpit reference number: SWCP 3	0						
Depth: 1.07									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 31	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

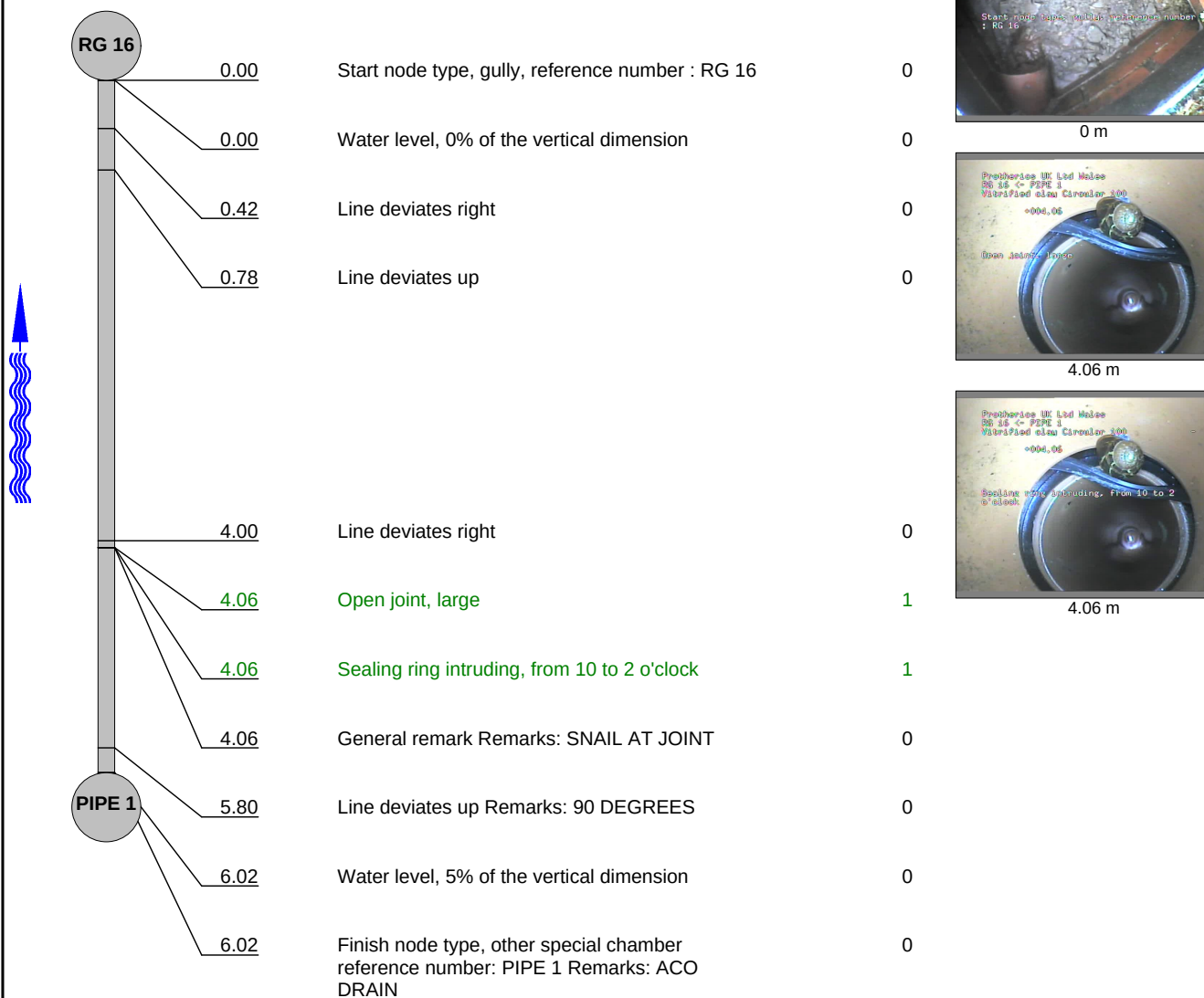
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 16 (U/S) PIPE 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 1 0.27 RG 16 0.29
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 6.02 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Vitrified clay		

Comment :

1:60 Position
Depth: 0.29

Observation

Grade



Depth: 0.27

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	7	1.16	7	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 31	PLR Suffix : X
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Photo: 32_32_187_A.JPG
 0m, Start node type, gully, reference number : RG 16



Photo: 32_32_192_A.JPG
 4.06m, Open joint, large

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 31	PLR Suffix : X
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Photo: 32_32_193_A.JPG
 4.06m, Sealing ring intruding, from 10 to 2 o'clock

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 32	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

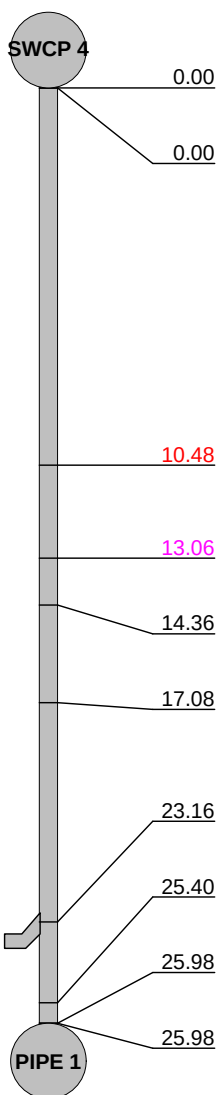
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 4 (U/S) PIPE 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 1 1.4 SWCP 4 1.89
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 25.98 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride 		

Comment :

1:210 Position
Depth: 1.89

Observation

Grade



Start node type, catchpit, reference number :
SWCP 4

Water level, 5% of the vertical dimension

Deformed sewer/drain, 15% Remarks: BULGE
AT INVERT

Deformed sewer/drain, 10% Remarks: WARPED
JOINT

Line deviates up

Line deviates left

Junction, at 2 o'clock, diameter 150mm
Remarks: RWDP

Line deviates up Remarks: 90 DEGREES

Water level, 5% of the vertical dimension

Finish node type, other special chamber
reference number: PIPE 1 Remarks: BASE OF
RWDP

0

0

5

4

0

0

0

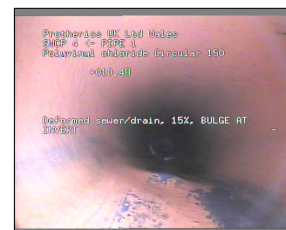
0

0

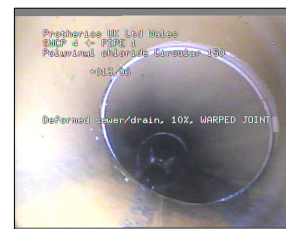
0



0 m



10.48 m



13.06 m

Depth: 1.4

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	165	9.43	245	5	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 32	PLR Suffix : X
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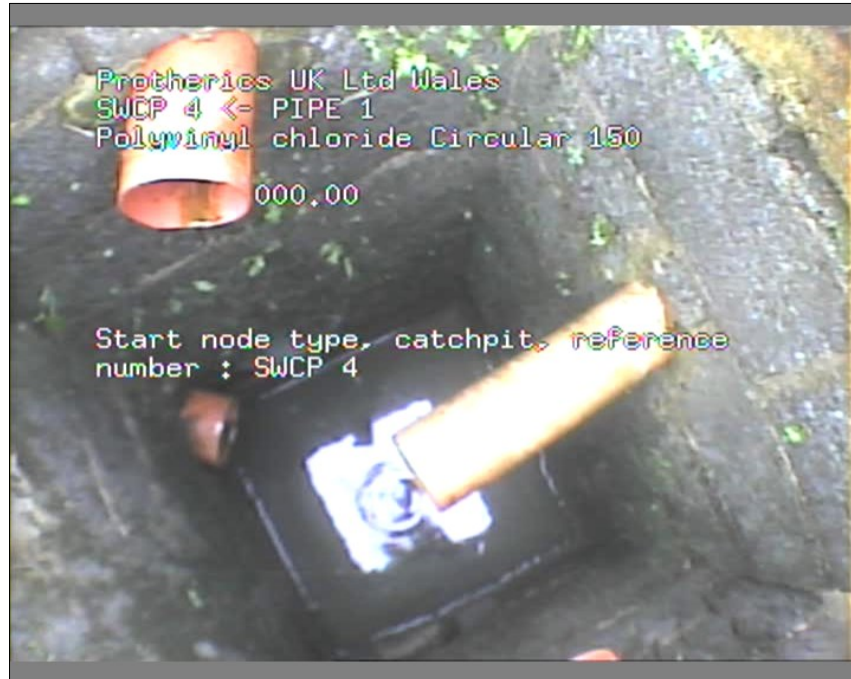


Photo: 33_33_198_A.JPG
 0m, Start node type, catchpit, reference number : SWCP 4

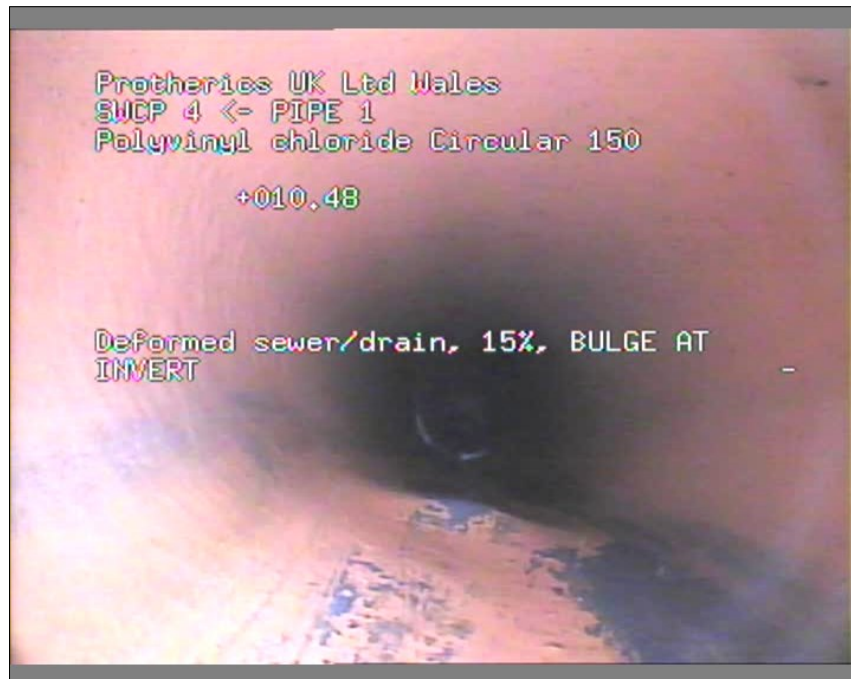


Photo: 33_33_200_A.JPG
 10.48m, Deformed sewer/drain, 15%

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 32	PLR Suffix : X
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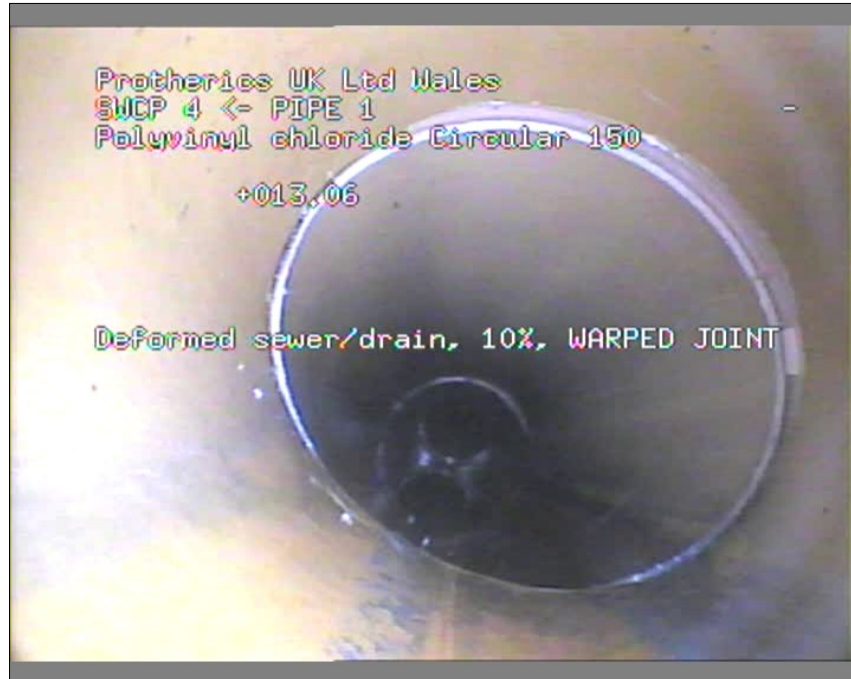


Photo: 33_33_201_A.JPG
 13.06m, Deformed sewer/drain, 10%

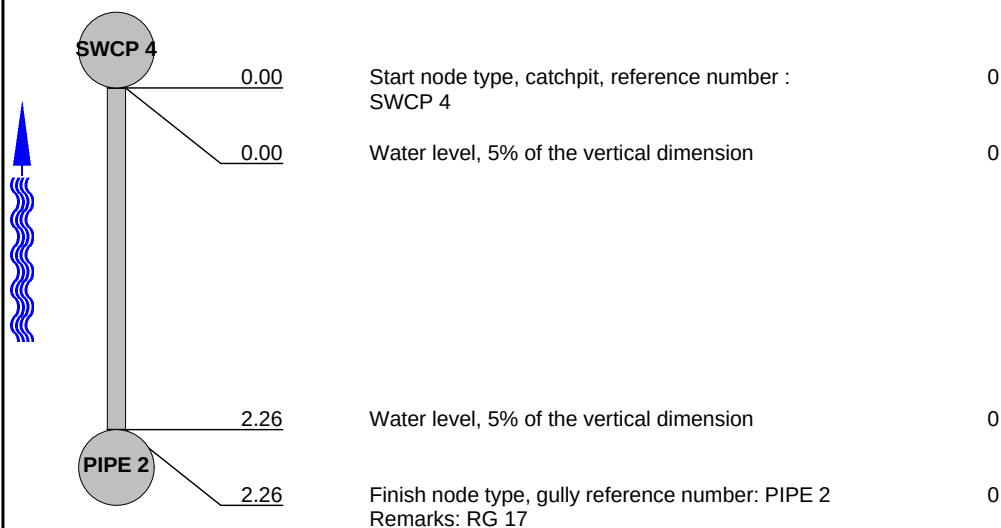
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 33	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 4 (U/S) PIPE 2	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 2 0.39 SWCP 4 1.87
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 2.26 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

1:50 Position Observation Grade
Depth: 1.87



Depth: 0.39

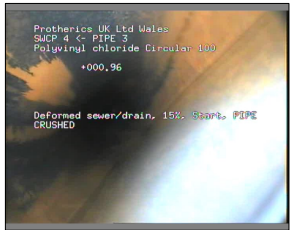
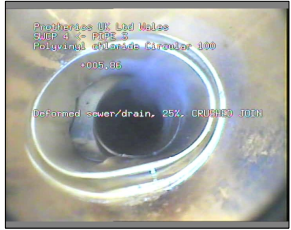
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 34	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 4 (U/S) PIPE 3	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 3 0.78 SWCP 4 1.87
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 18.16 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

1:150 Position Depth: 1.87	Observation	Grade	
SWCP 4			
0.00	Start node type, catchpit, reference number : SWCP 4	0	
0.00	Water level, 5% of the vertical dimension	0	0.96 m
0.96	S01 Deformed sewer/drain, 15%, Start Remarks: PIPE CRUSHED	5	
1.47	Line deviates up	0	5.86 m
5.86	Deformed sewer/drain, 25% Remarks: CRUSHED JOINT	5	
6.36	Junction, at 9 o'clock, diameter 100mm Remarks: RWDP GULLY	0	
6.36	F01 Deformed sewer/drain, 15%, End Remarks: PIPE CRUSHED	5	
8.40	S02 Deformed sewer/drain, 10%, Start Remarks: BULGES THROUGHOUT	4	
16.91	Line deviates left	0	
16.92	F02 Deformed sewer/drain, 10%, End Remarks: BULGES THROUGHOUT	4	
18.16	Water level, 5% of the vertical dimension	0	
PIPE 3	Finish node type, gully reference number: PIPE 3 Remarks: SURFACE WATER GULLY	0	
Depth: 0.78			
STR no def	STR peak	STR mean	STR total
3	410	95.59	1736
STR grade	SER no def	SER peak	SER mean
5	0	0	0
SER total	SER grade		
0	1		

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 34	PLR Suffix : X
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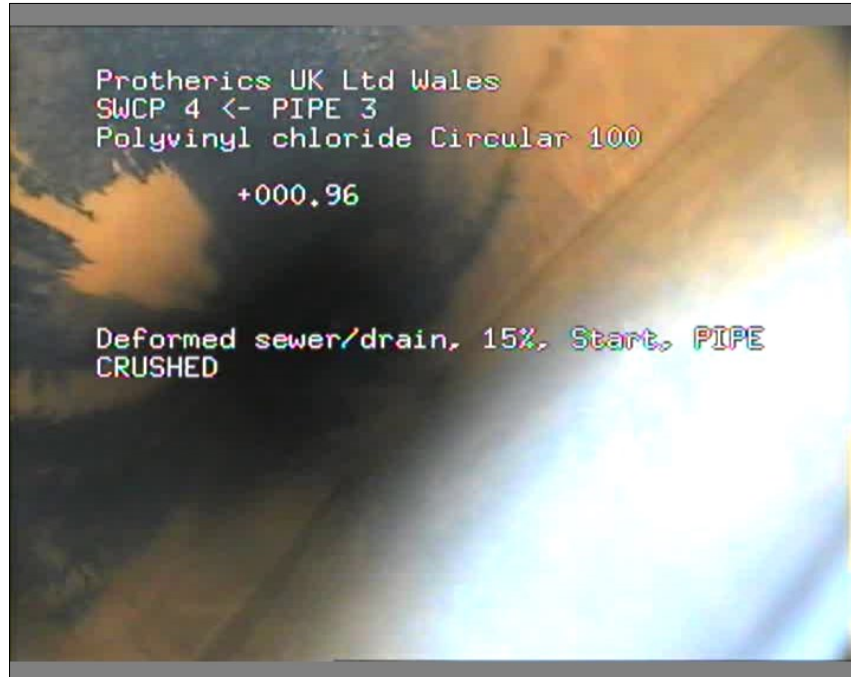


Photo: 35_35_214_A.JPG
 0.96m, Deformed sewer/drain, 15%, Start

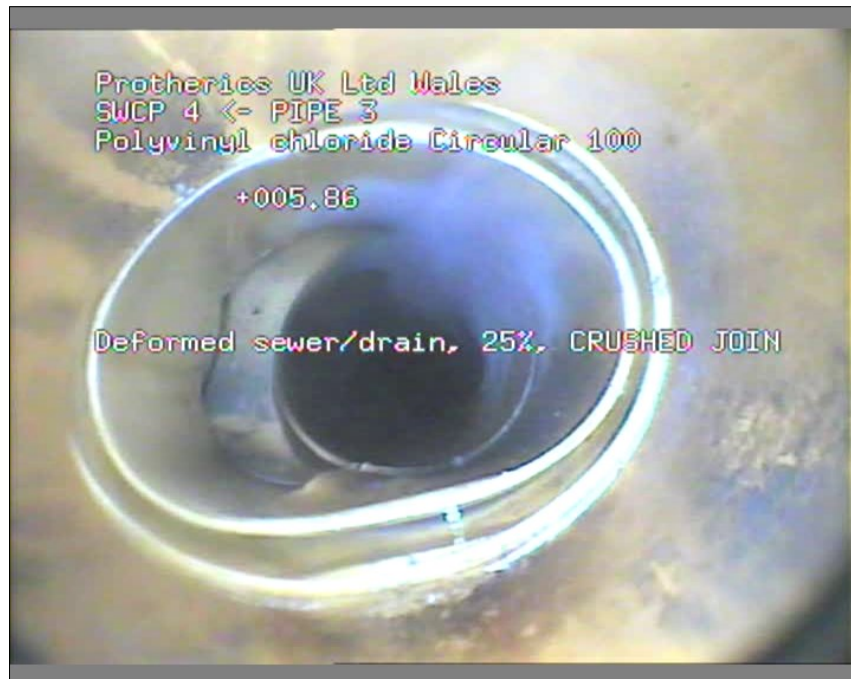


Photo: 35_35_216_A.JPG
 5.86m, Deformed sewer/drain, 25%

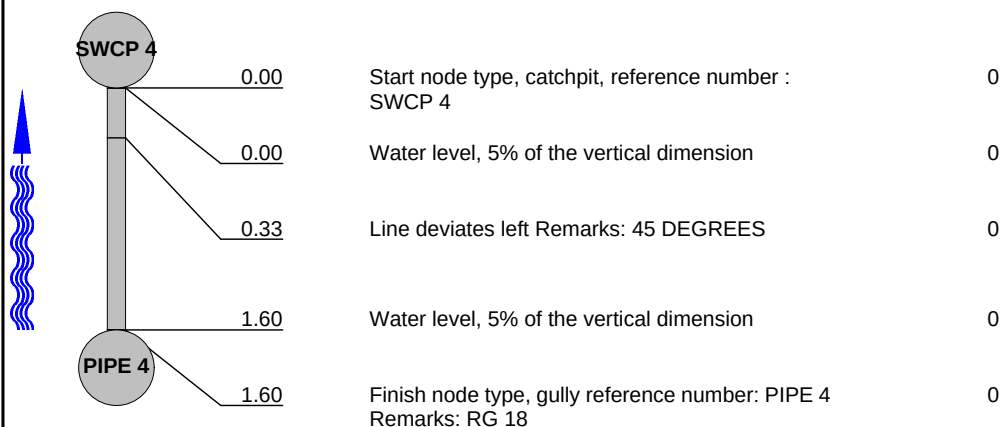
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 35	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 4 (U/S) PIPE 4	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 4 0.37 SWCP 4 1.87
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 1.60 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:50 Position Observation Grade
Depth: 1.87



Depth: 0.37

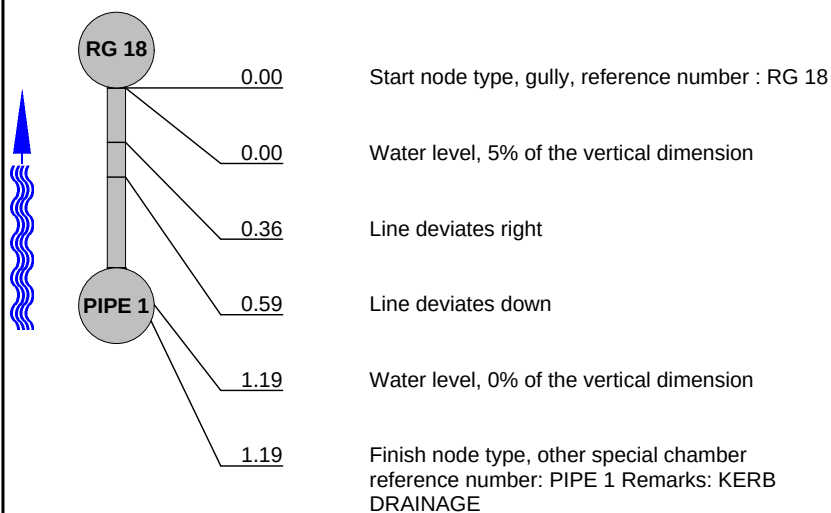
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 36	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 18 (U/S) PIPE 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 1 0.26 RG 18 0.28
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 1.19 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

1:50 Position
Depth: 0.28
Observation
Grade

Depth: 0.26

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 36	PLR Suffix : X
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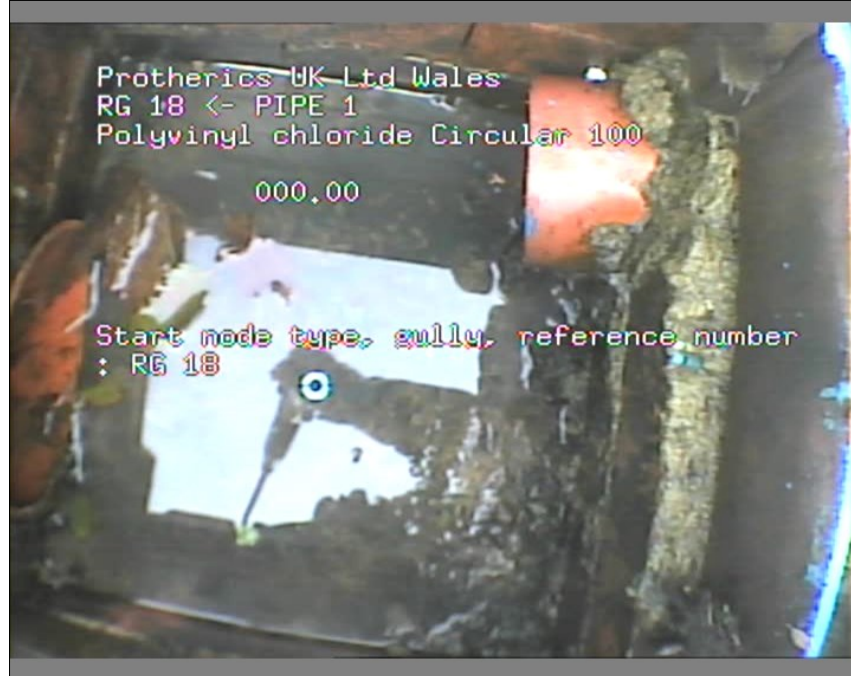


Photo: 37_37_229_A.JPG
 0m, Start node type, gully, reference number : RG 18

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 37	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 4 (D/S) SWCP 10	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SWCP 4 1.87 SWCP 10
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 29.73 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	225 mm 225 mm Polyethylene		

Comment : **OUTGOING PIPE DEPTH IS 1.65M**

1:240	Position	Observation	Grade						
Depth: 1.87									
	0.00	Start node type, catchpit, reference number : SWCP 4	0						
	0.00	Water level, 5% of the vertical dimension	0						
	11.56	Deformed sewer/drain, 25% Remarks: BULGE AT INVERT	5						
	29.73	Water level, 75% of the vertical dimension	0						
	29.73	Finish node type, catchpit reference number: SWCP 10	0						
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	165	5.55	165	5	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 38	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 5 (U/S) PIPE 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 1 0.43 SWCP 5 0.62
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 20.68 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

1:165 Position
Depth: 0.62

Observation

Grade

SWCP 5

0.00

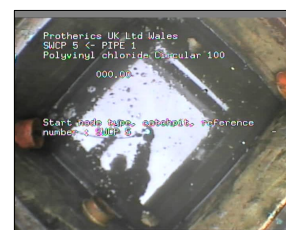
Start node type, catchpit, reference number :
SWCP 5

0

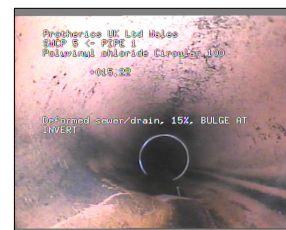
0.00

Water level, 0% of the vertical dimension

0



0 m



15.22 m

15.22

Deformed sewer/drain, 15% Remarks: BULGE AT INVERT

5

19.48

Line deviates right

0

20.46

Line deviates up Remarks: 45 DEGREES

0

20.67

Finish node type, other special chamber
reference number: PIPE 1 Remarks: BASE OF
RWDP

0

20.68

Water level, 5% of the vertical dimension

0

PIPE 1

Depth: 0.43

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	165	7.98	165	5	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 38	PLR Suffix : X
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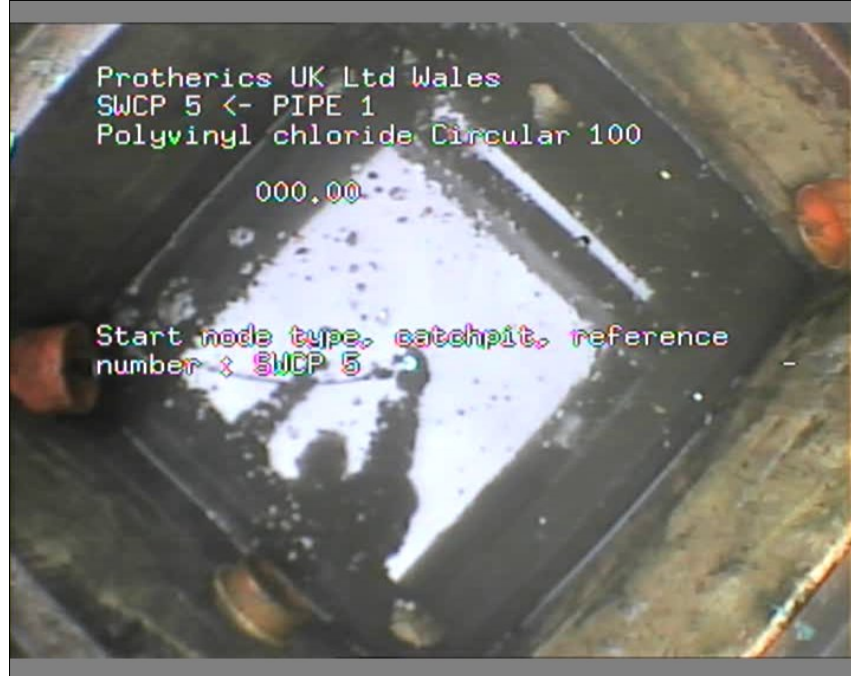


Photo: 39_39_244_A.JPG
 0m, Start node type, catchpit, reference number : SWCP 5



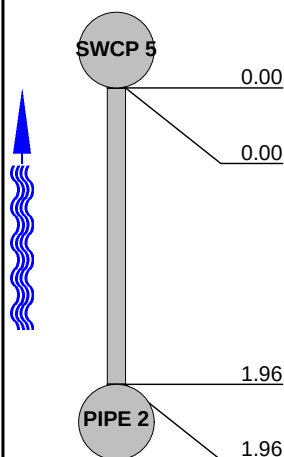
Photo: 39_39_246_A.JPG
 15.22m, Deformed sewer/drain, 15%

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 39	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 5 (U/S) PIPE 2	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 2 0.34 SWCP 5 0.62
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 1.96 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:50 Position
Depth: 0.62
Observation
Grade

 Start node type, catchpit, reference number :
 SWCP 5

0

Water level, 0% of the vertical dimension

0

Water level, 0% of the vertical dimension

0

 Finish node type, other special chamber
 reference number: PIPE 2 Remarks: FILLED IN

0



1.96 m

Depth: 0.34

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 39	PLR Suffix : X
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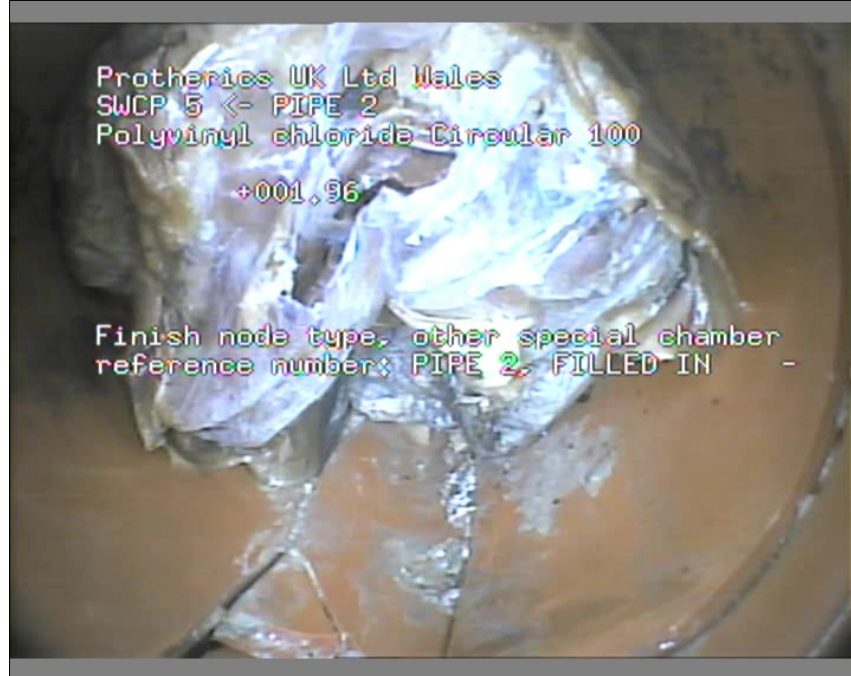


Photo: 40_40_254_A.JPG

1.96m, Finish node type, other special chamber reference number: PIPE 2

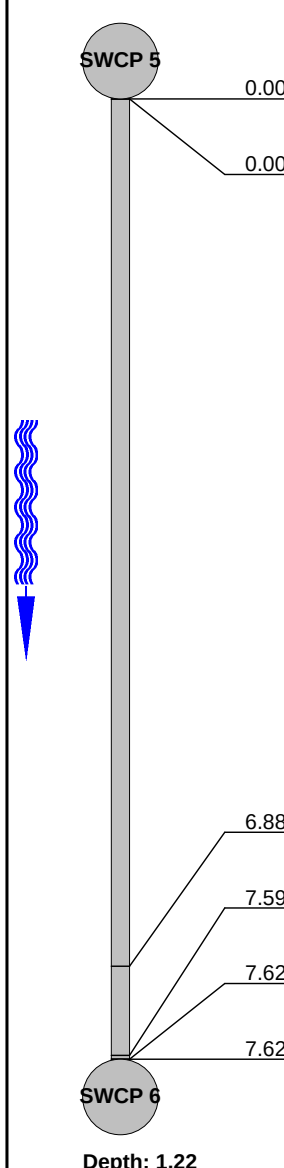
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 40	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 5 (D/S) SWCP 6	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SWCP 5 0.62 SWCP 6 1.22
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Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 7.62 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride
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Comment :	OUTGOING PIPE IS 0.45M DEEP
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1:60	Position	Observation	Grade						
Depth: 0.62									
	0.00	Start node type, catchpit, reference number : SWCP 5	0						
	0.00	Water level, 5% of the vertical dimension	0						
	6.88	General remark Remarks: DIP IN PIPE, WATER HOLDS	0						
	7.59	Dimension changes, 150mm high, 150mm wide	0						
	7.62	Water level, 5% of the vertical dimension	0						
	7.62	Finish node type, catchpit reference number: SWCP 6	0						
Depth: 1.22									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 41	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 6 (D/S) SW LINE	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SWCP 6 1.22 SW LINE
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 35.40 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride		

Comment : **OUTGOING PIPE DEPTH IS 0.90M DEEP**

1:285	Position	Observation	Grade	
Depth: 1.22				
	0.00	Start node type, catchpit, reference number : SWCP 6	0	
	0.00	Water level, 5% of the vertical dimension	0	
	0.42	Deformed sewer/drain, 5% Remarks: BULGE AT 1 O'CLOCK	2	
		</		

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 41	PLR Suffix : X
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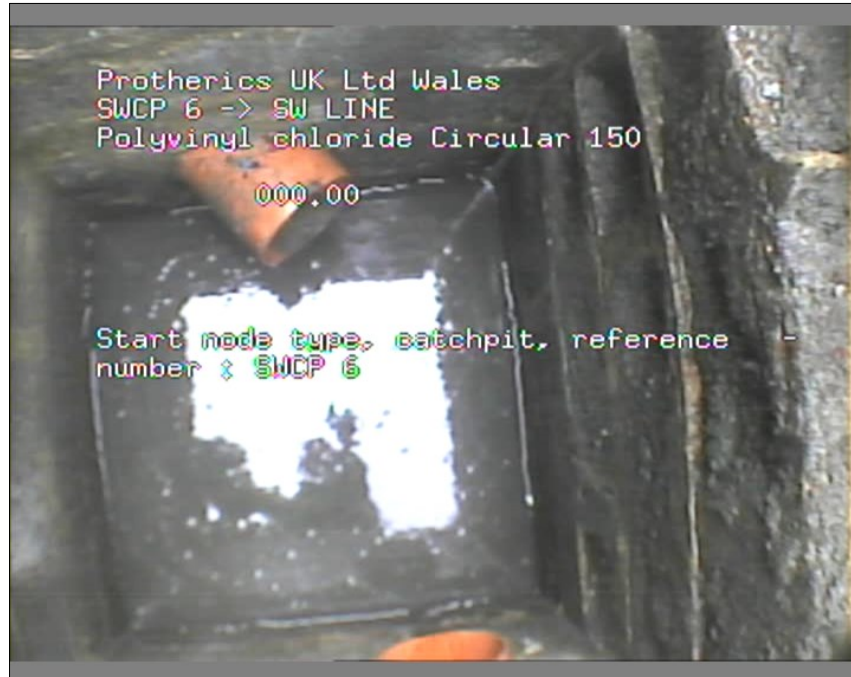


Photo: 42_42_261_A.JPG
 0m, Start node type, catchpit, reference number : SWCP 6

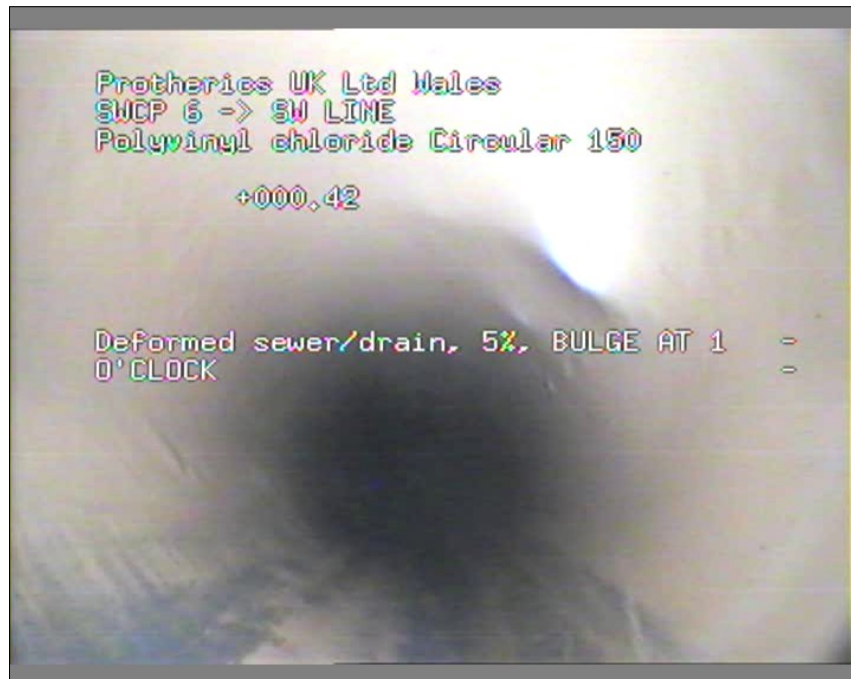


Photo: 42_42_263_A.JPG
 0.42m, Deformed sewer/drain, 5%

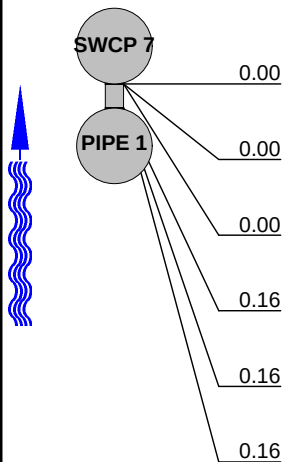
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 42	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 7 (U/S) PIPE 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 1 0.22 SWCP 7 0.65
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.16 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:50 Position
Depth: 0.65



Observation

Grade

Start node type, catchpit, reference number :
SWCP 7

0

Water level, 0% of the vertical dimension

0

Line deviates down Remarks: 45 DEGREES,
PIPE HAS A BEND / COLLAR

0

General remark Remarks: CAPPED OFF

0

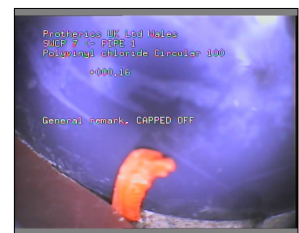
Water level, 5% of the vertical dimension

0

Finish node type, other special chamber
reference number: PIPE 1 Remarks: CAPPED
OFF PIPE

0

Depth: 0.22



0.16 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 42	PLR Suffix : X
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Photo: 43_43_302_A.JPG
 0.16m, General remark

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 43	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

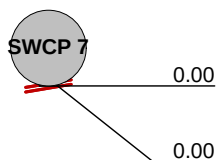
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 7 (U/S) PIPE 2	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 2 0.49 SWCP 7 0.65
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.00 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:50 **Position**
Depth: 0.65

Observation

Grade



General remark Remarks: CHANGED TO 80MM
PERFORATED PIPE

Survey abandoned Remarks: TOO SMALL FOR
STANDARD CCTV CAMERA

0

0



0 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 43	PLR Suffix : X
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Photo: 44_44_269_A.JPG
 0m, General remark

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 44	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

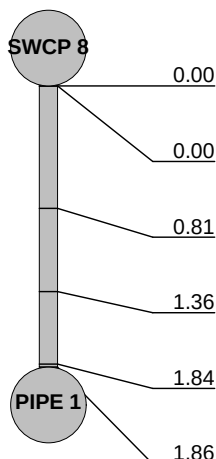
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 8 (U/S) PIPE 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 1 0.64 SWCP 8 1.04
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 1.86 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

1:50 Position
Depth: 1.04

Observation

Grade



Start node type, catchpit, reference number :
SWCP 8

Water level, 0% of the vertical dimension

Line deviates right

Line deviates up Remarks: 90 DEGREES

Finish node type, other special chamber
reference number: PIPE 1 Remarks: BASE OF
RWDP

Water level, 0% of the vertical dimension

0

0

0

0

0

0

Depth: 0.64

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 44	PLR Suffix : X
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Photo: 45_45_270_A.JPG

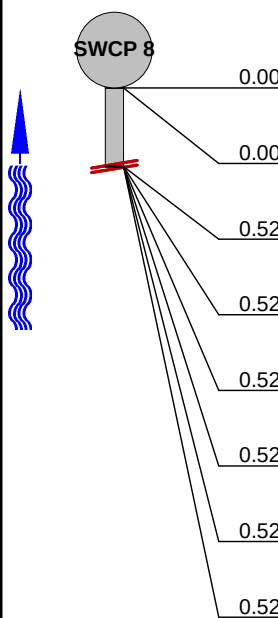
0m, Start node type, catchpit, reference number : SWCP 8

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 45	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 8 (U/S) PIPE B	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE B 0.75 SWCP 8 1.04
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.52 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

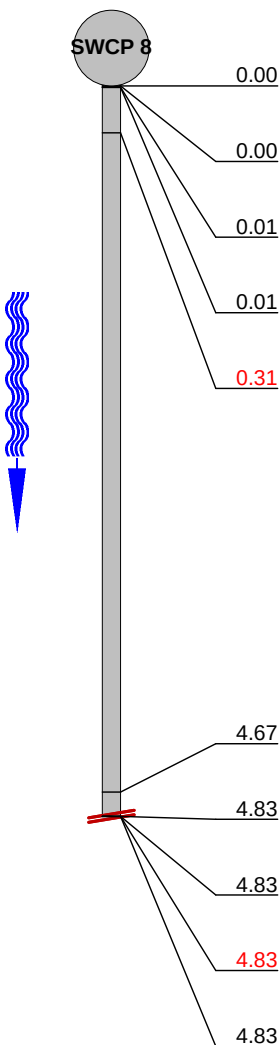
1:50	Position	Observation	Grade						
Depth: 1.04									
	0.00	Start node type, catchpit, reference number : SWCP 8	0						
	0.00	Water level, 0% of the vertical dimension	0						
	0.52	Line deviates right Remarks: 45 DEGREES	0						
	0.52	Dimension changes, 80mm high, 80mm wide	0						
	0.52	Material changes, polyethylene Remarks: LAND DRAIN	0						
	0.52	General remark Remarks: TOO SMALL FOR STANDARD CCTV CAMERA	0						
	0.52	General remark Remarks: SERVES SWCP 7	0						
	0.52	Survey abandoned Remarks: AT SIZE AND MATERIAL CHANGE	0						
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

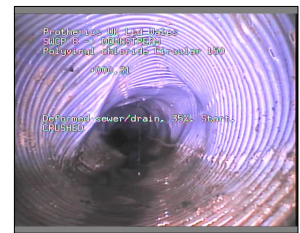
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 46	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 8 (D/S) DOWNSTREAM	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SWCP 8 1.04 DOWNSTREAM
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 4.83 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride		

Comment :

1:50 Depth: 1.04	Position	Observation	Grade
	SWCP 8		
	0.00	Start node type, catchpit, reference number : SWCP 8	0
	0.00	Water level, 5% of the vertical dimension	0
	0.01	Dimension changes, 100mm high, 100mm wide	0
	0.01	Material changes, polyethylene Remarks: PERFORATED PIPE	0
	0.31	S01 Deformed sewer/drain, 35%, Start Remarks: CRUSHED	5
	4.67	Line deviates left	0
	4.83	General remark Remarks: BACK JETTED HOWEVER DUE TO CRUSHED PIPE, DEBRIS AND SILT HOLDS	0
	4.83	General remark Remarks: UNABLE TO PASS CRUSHED PIPE AND SILT / DEBRIS	0
	4.83	F01 Deformed sewer/drain, 35%, End Remarks: CRUSHED	5
	4.83	Survey abandoned Remarks: AT CRUSHED PIPE & SILT / DEBRIS	0



0.31 m

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 46	PLR Suffix : X
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Photo: 47_47_288_A.JPG
 0.31m, Deformed sewer/drain, 35%, Start

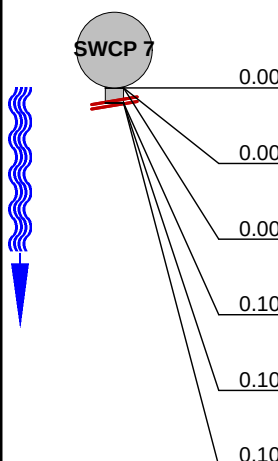
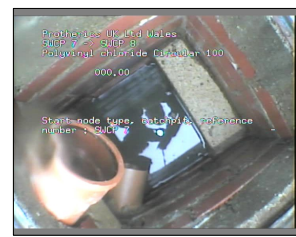
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 47	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 7 (D/S) SWCP 8	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SWCP 7 0.65 SWCP 8 1.04
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Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.10 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride
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Comment :	DEPTH OF OUTGOING PIPE IS .49
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1:50	Position	Observation	Grade						
Depth: 0.65									
	0.00	Start node type, catchpit, reference number : SWCP 7	0						
	0.00	Water level, 5% of the vertical dimension	0						
	0.00	General remark Remarks: OVERLAP SURVEY FROM ABANDONED SECTION 45	0						
	0.10	Dimension changes, 80mm high, 80mm wide	0						
	0.10	Material changes, polyethylene Remarks: PERFORATED PIPE	0						
	0.10	Survey abandoned Remarks: AT SIZE CHANGE & MATERIAL CHANGE	0						
									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 47	PLR Suffix : X
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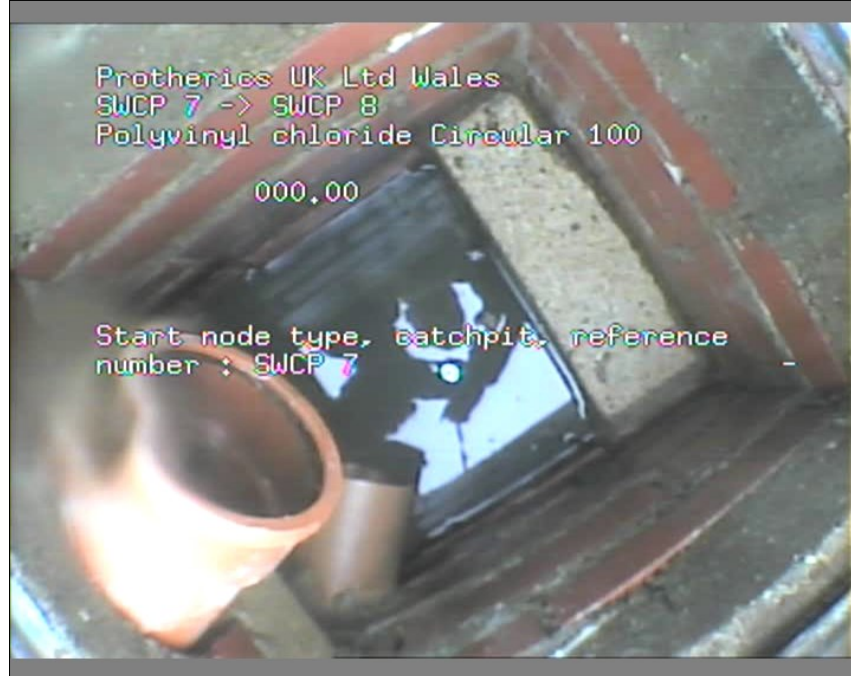


Photo: 48_48_294_A.JPG

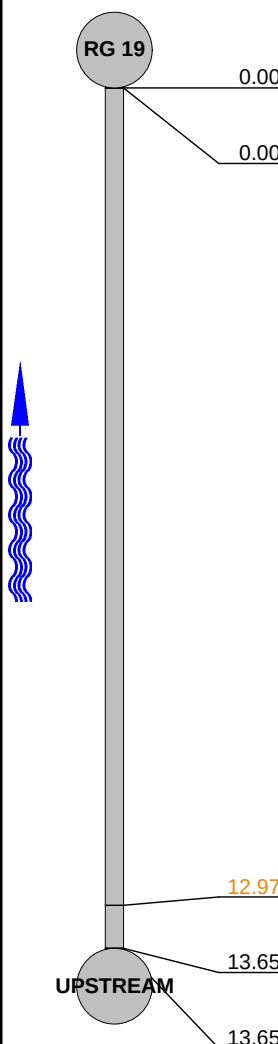
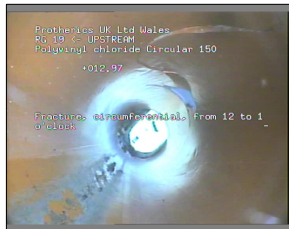
0m, Start node type, catchpit, reference number : SWCP 7

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 48	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 19 (U/S) UPSTREAM	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	UPSTREAM 0.34 RG 19 0.89
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 13.65 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride		

Comment :

1:120	Position	Observation	Grade						
Depth: 0.89									
									
	0.00	Start node type, gully, reference number : RG 19	0						
	0.00	Water level, 0% of the vertical dimension	0	0 m					
	12.97	Fracture, circumferential, from 12 to 1 o'clock	3						
	13.65	Water level, 0% of the vertical dimension	0	12.97 m					
	13.65	Finish node type, other special chamber reference number: UPSTREAM Remarks: ACO DRAIN	0						
Depth: 0.34									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	40	2.93	40	3	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 48	PLR Suffix : X
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Photo: 49_49_307_A.JPG
 0m, Start node type, gully, reference number : RG 19

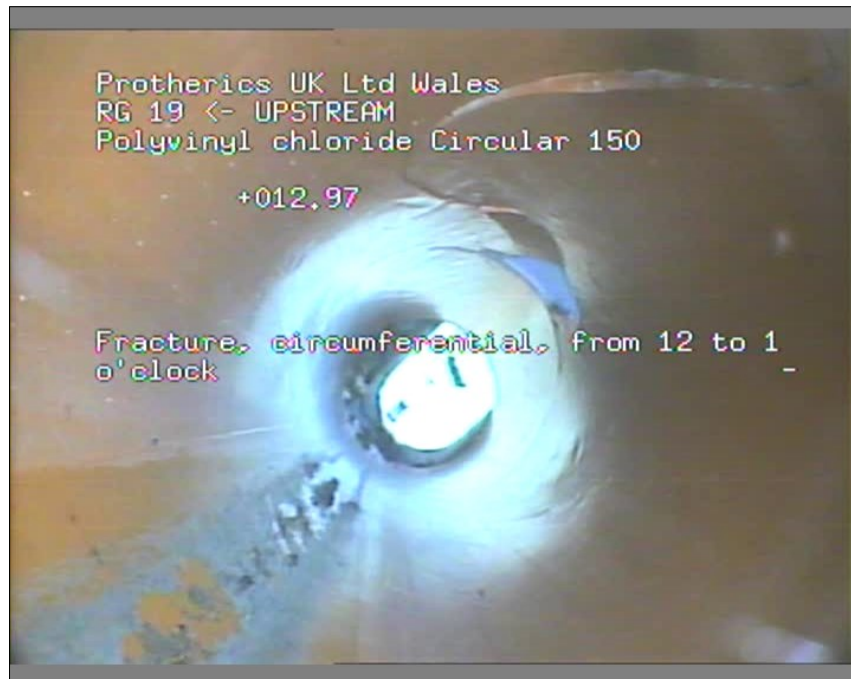


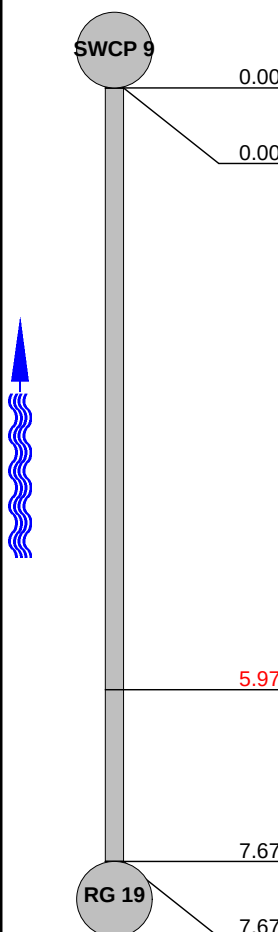
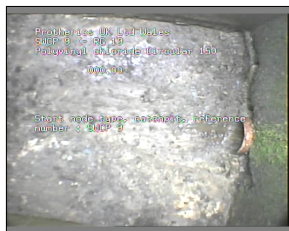
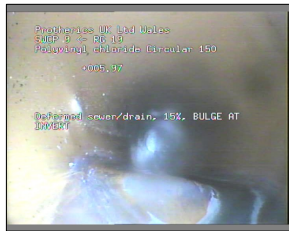
Photo: 49_49_309_A.JPG
 12.97m, Fracture, circumferential, from 12 to 1 o'clock

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 49	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 9 (U/S) RG 19	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 19 0.89 SWCP 9 1.06
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 7.67 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride		

Comment :

1:75	Position	Observation	Grade						
Depth: 1.06									
	0.00	Start node type, catchpit, reference number : SWCP 9	0	 0 m					
	0.00	Water level, 0% of the vertical dimension	0						
	5.97	Deformed sewer/drain, 15% Remarks: BULGE AT INVERT	5	 5.97 m					
	7.67	Water level, 0% of the vertical dimension	0						
	7.67	Finish node type, gully reference number: RG 19	0						
Depth: 0.89									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	165	21.51	165	5	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 49	PLR Suffix : X
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Photo: 50_50_312_A.JPG
 0m, Start node type, catchpit, reference number : SWCP 9

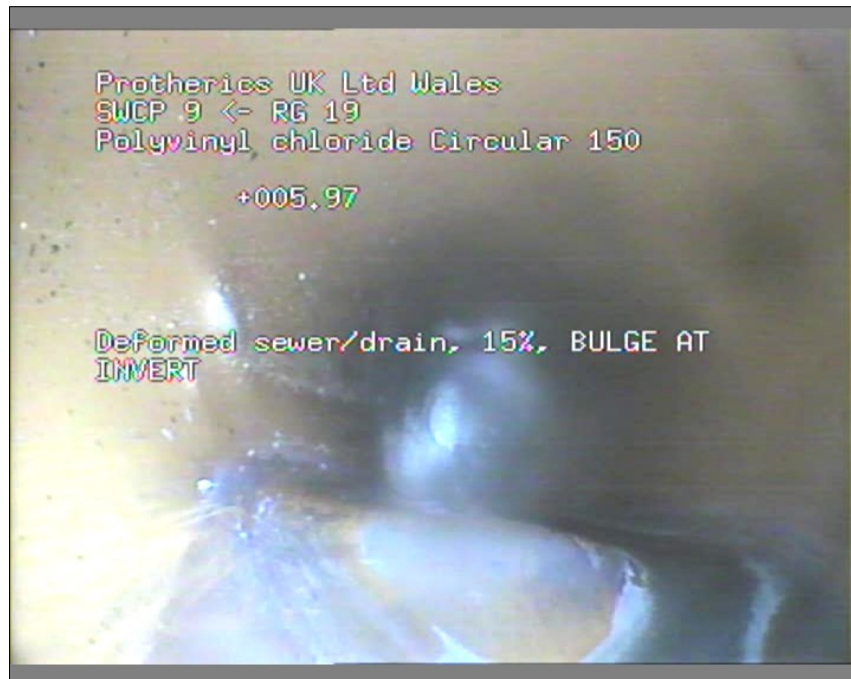


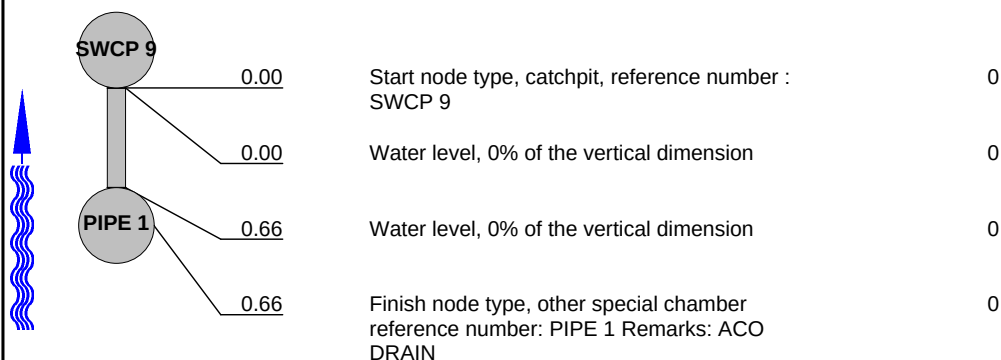
Photo: 50_50_314_A.JPG
 5.97m, Deformed sewer/drain, 15%

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 50	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 9 (U/S) PIPE 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 1 0.29 SWCP 9 1.06
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 0.66 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:50 **Position**
Depth: 1.06
Observation
Grade

Depth: 0.29

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

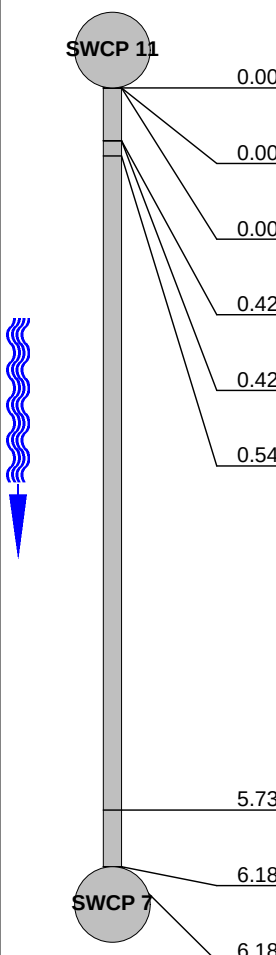
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 51	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 11 (D/S) SWCP 7	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SWCP 11 1.2 SWCP 7 0.65
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Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 6.18 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride
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Comment :	DEPTH OF OUTGOING PIPE IS 0.73M DEEP
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1:60	Position	Observation	Grade						
Depth: 1.2									
	0.00	Start node type, catchpit, reference number : SWCP 11	0	 0 m					
	0.00	Water level, 0% of the vertical dimension	0						
	0.00	General remark Remarks: OVERLAP SURVEY FROM SURVEY SECTION 43	0						
	0.42	Line deviates left	0						
	0.42	Line deviates down	0						
	0.54	Material changes, polyethylene Remarks: RIBBED	0						
	5.73	Line deviates left	0						
	6.18	Water level, 0% of the vertical dimension	0						
	6.18	Finish node type, catchpit reference number: SWCP 7 Remarks: PIPE 2	0						
Depth: 0.65									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 51	PLR Suffix : X
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Photo: 52_52_321_A.JPG

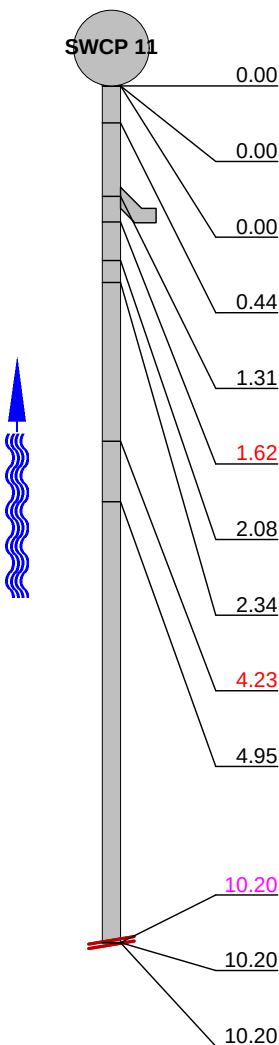
0m, Start node type, catchpit, reference number : SWCP 11

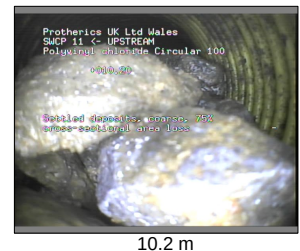
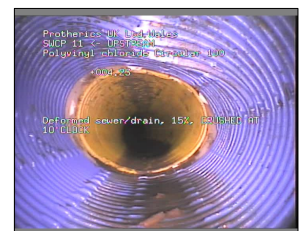
Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 52	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings SWCP 11 (U/S) UPSTREAM	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	UPSTREAM 0.73 SWCP 11 1.2
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 10.20 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

1:90 Depth: 1.2	Position	Observation	Grade
	SWCP 11		
	0.00	Start node type, catchpit, reference number : SWCP 11	0
	0.00	Water level, 5% of the vertical dimension	0
	0.00	General remark Remarks: CONSTANT TRICKLE OF WATER HOWEVER NOT RAINING	0
	0.44	Material changes, polyethylene Remarks: PERFORATED	0
	1.31	Junction, at 9 o'clock, diameter 100mm	0
	1.62	Deformed sewer/drain, 15% Remarks: CRUSHED PERFORATED PIPE (INSTALLED BADLY)	5
	2.08	Line deviates right	0
	2.34	Line deviates left	0
	4.23	Deformed sewer/drain, 15% Remarks: CRUSHED AT 10'CLOCK	5
	4.95	Line deviates left	0
	10.20	Settled deposits, coarse, 75% cross-sectional area loss	4
	10.20	General remark Remarks: ASSUMED END OF LAND DRAIN	0
	10.20	Survey abandoned Remarks: AT END OF LAND DRAIN	0



STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	165	32.35	330	5	1	8	0.78	8	4

Inspection pictures

 Place :
Protherics UK Ltd

 Road :
Wales

 Date :
26/09/2017

 Section number :
52

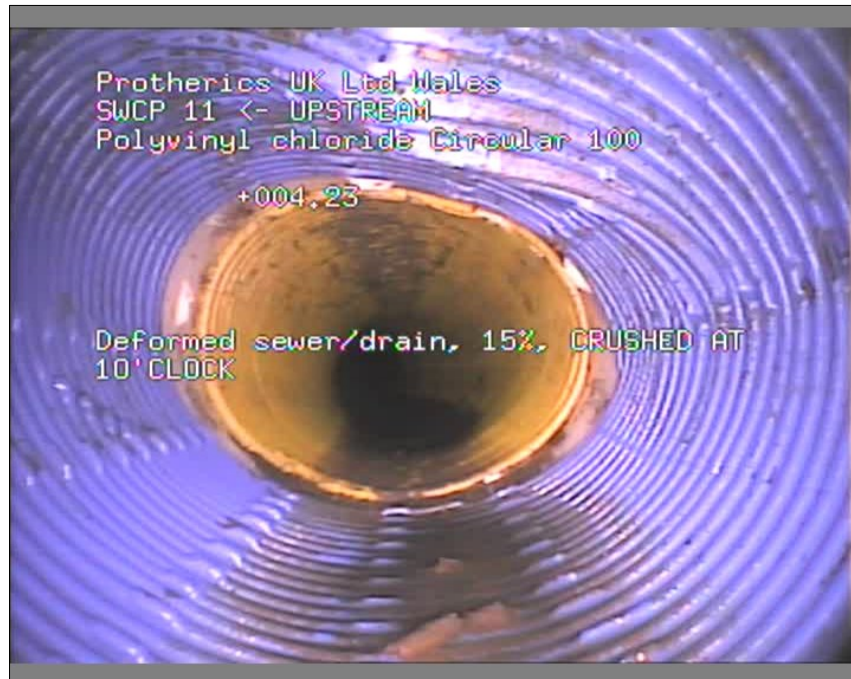
 PLR Suffix :
X


Photo: 53_53_338_A.JPG
 4.23m, Deformed sewer/drain, 15%

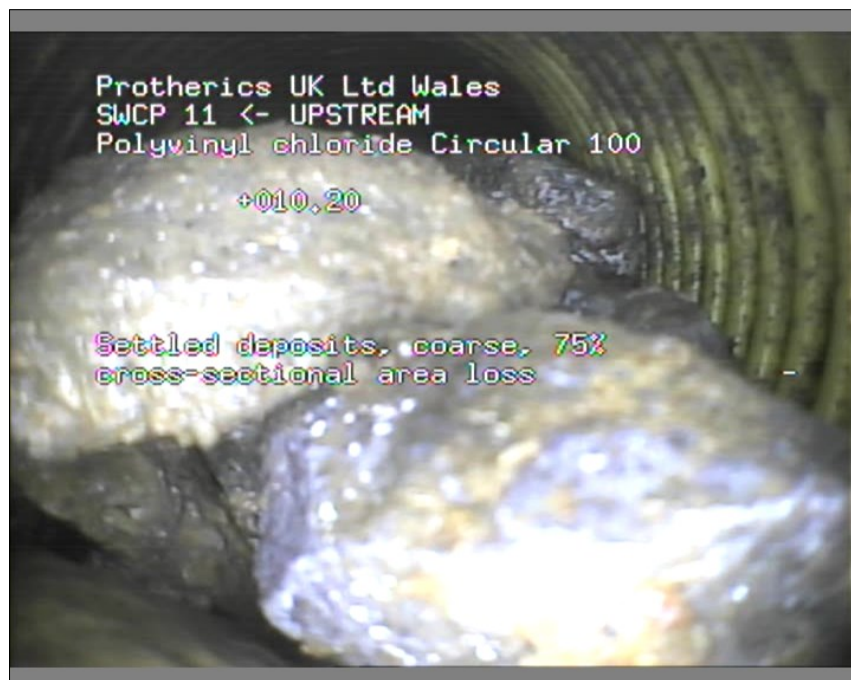


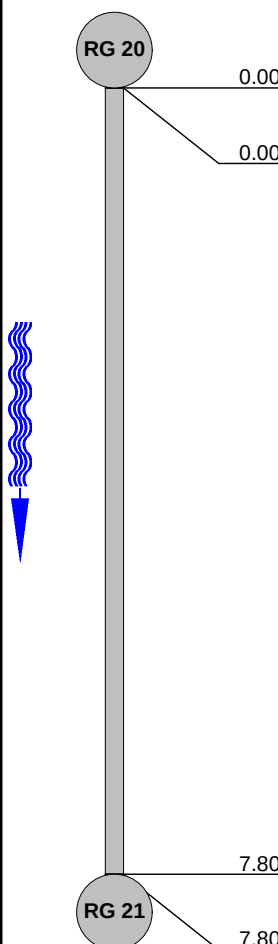
Photo: 53_53_340_A.JPG
 10.2m, Settled deposits, coarse, 75% cross-sectional area loss

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 53	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 20 (D/S) RG 21	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 20 0.65 RG 21 1.1
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 7.80 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride		

Comment :

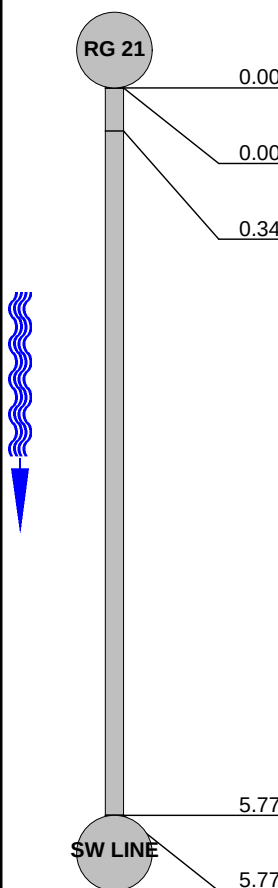
1:75	Position	Observation	Grade						
Depth: 0.65									
	0.00	Start node type, gully, reference number : RG 20	0						
	0.00	Water level, 5% of the vertical dimension	0						
	7.80	Water level, 5% of the vertical dimension	0						
	7.80	Finish node type, gully reference number: RG 21	0						
Depth: 1.1									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 54	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings RG 21 (D/S) SW LINE	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	RG 21 1.1 SW LINE
Use: Year laid : Purpose : Total length :	Surface water Sample survey to determine asset condition 5.77 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride		

Comment :

1:60 Depth: 1.1	Position	Observation	Grade						
	0.00	Start node type, gully, reference number : RG 21	0						
	0.00	Water level, 5% of the vertical dimension	0						
	0.34	Line deviates left Remarks: 45 DEGREES	0						
	5.77	Water level, 5% of the vertical dimension	0						
	5.77	Finish node type, other special chamber reference number: SW LINE Remarks: WITHIN FARM FIELDS	0						
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Date : 26/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 55	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place :	Protherics UK Ltd	Location details:	U/S MH :	FWMH 1
Road :	Wales	Catchment:	U/S Depth :	
Location	Property with buildings	Pipe Shape :	D/S MH :	FW TANK
Inspection	FWMH 1 (D/S) FW TANK	Pipe Length	D/S Depth :	
Use:	Foul	Pipe Width :		
Year laid :		Pipe Diameter :		
Purpose :	Sample survey to determine asset condition	Pipe material :	Polyvinyl chloride	
Total length :	0.00 m	Lining :		

Comment :

1:50

FWMH 1

Position

0.00

0.00

Observation

General remark Remarks: MANHOLE
SURCHARGED DUE TO TANK / PUMP NOT
LIVE

Survey abandoned Remarks: AT
SURCHARGED / REDUNDANT SYSTEM

Grade

0

0

0 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 26/09/2017	Section number : 55	PLR Suffix : X
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Photo: FWMH 1 Surcharged.JPG
 0m, General remark

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 56	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

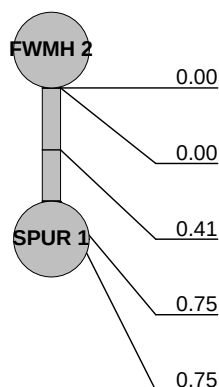
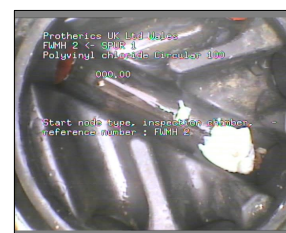
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 2 (U/S) SPUR 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 1 0.21 FWMH 2 0.27
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 0.75 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:50 Position
Depth: 0.27

Observation

Grade



Start node type, inspection chamber, reference number : FWMH 2

0

Water level, 5% of the vertical dimension

0

Line deviates up Remarks: 90 DEGREES

0

Water level, 5% of the vertical dimension

0

Finish node type, other special chamber reference number: SPUR 1 Remarks: BASE OF STACK PIPE

0

Depth: 0.21

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 56	PLR Suffix : X
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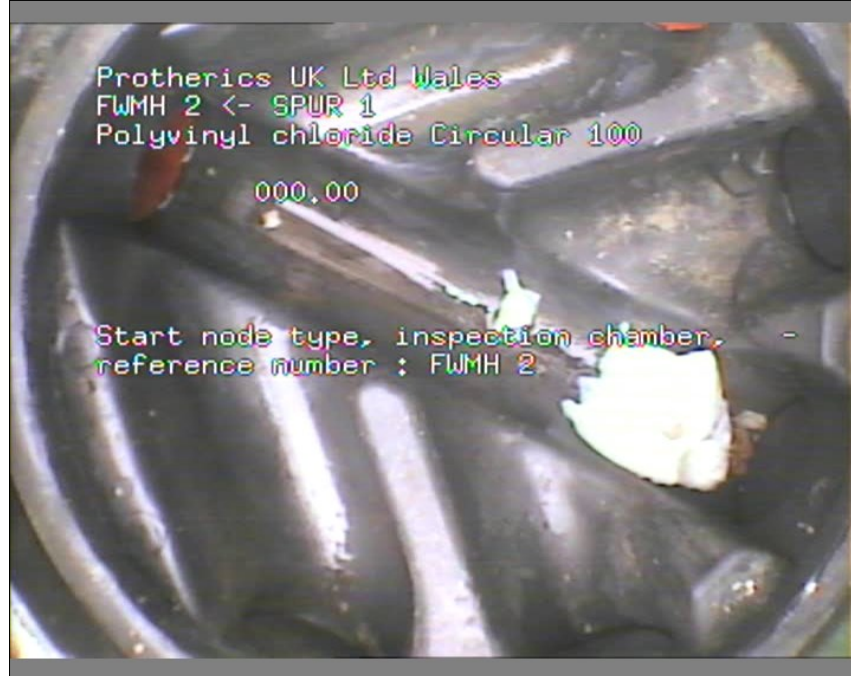


Photo: 57_57_355_A.JPG

0m, Start node type, inspection chamber, reference number : FWMH 2

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 57	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

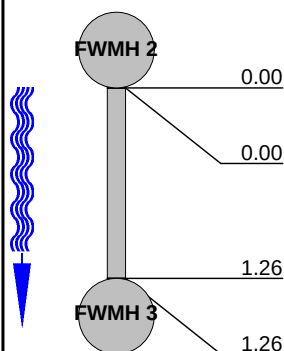
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 2 (D/S) FWMH 3	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	FWMH 2 0.27 FWMH 3 0.32
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 1.26 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:50 Position
Depth: 0.27

Observation

Grade



Start node type, inspection chamber, reference number : FWMH 2

0

Water level, 5% of the vertical dimension

0

Water level, 5% of the vertical dimension

0

Finish node type, inspection chamber reference number: FWMH 3

0

Depth: 0.32

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 58	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

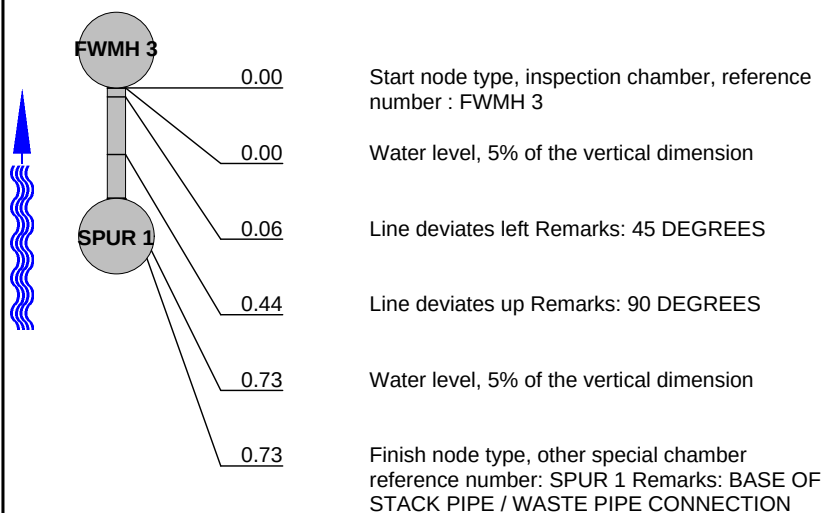
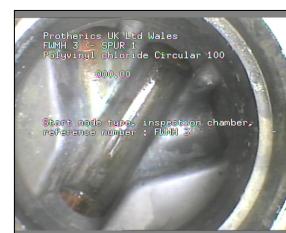
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 3 (U/S) SPUR 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 1 0.27 FWMH 3 0.32
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 0.73 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:50 Position
Depth: 0.32

Observation

Grade



Depth: 0.27

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 58	PLR Suffix : X
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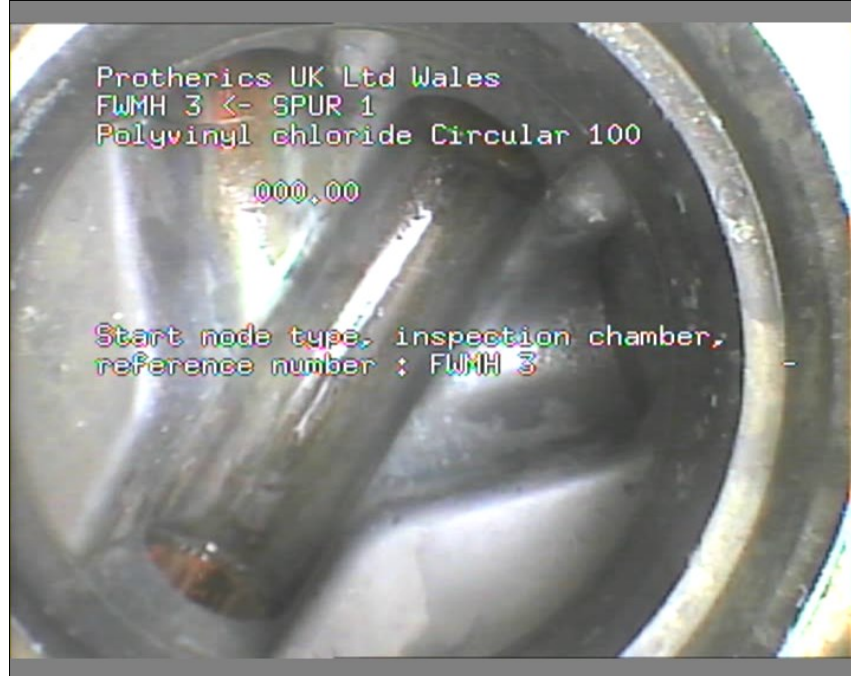


Photo: 59_59_364_A.JPG

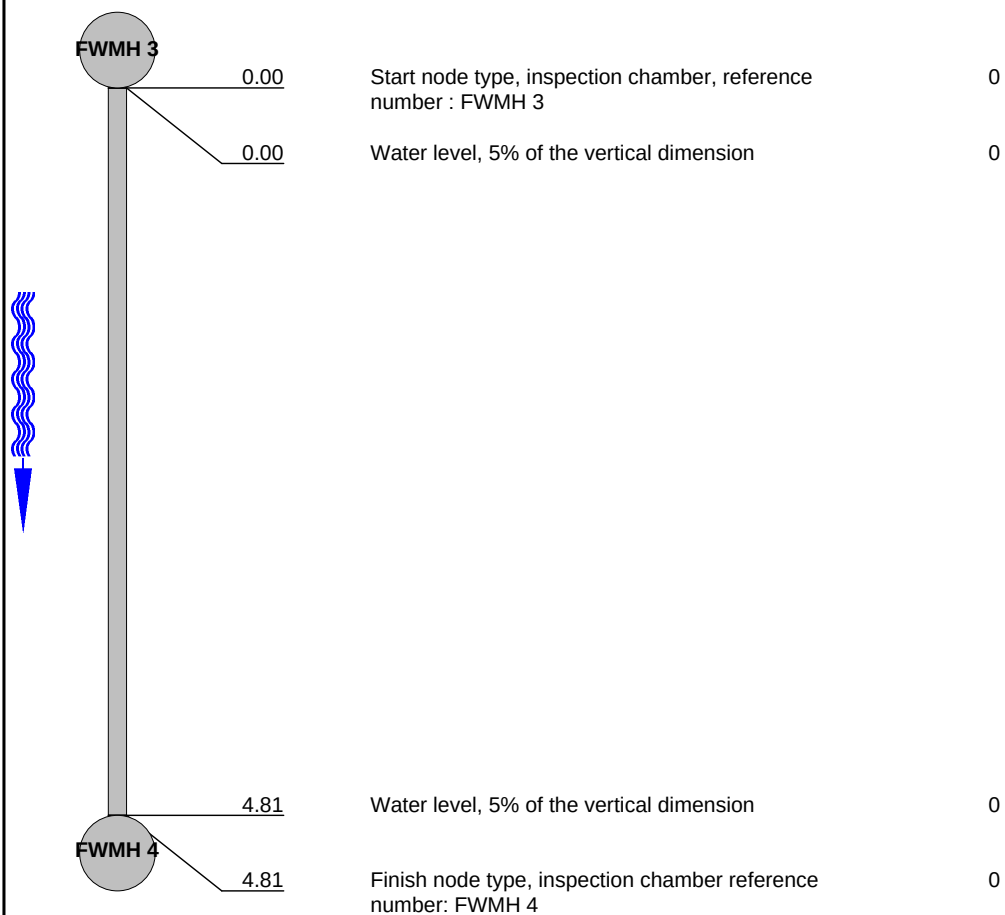
0m, Start node type, inspection chamber, reference number : FWMH 3

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 59	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place :	Protherics UK Ltd	Location details:	U/S MH :	FWMH 3
Road :	Wales	Catchment:	U/S Depth :	0.32
Location	Property with buildings	Pipe Shape :	D/S MH :	FWMH 4
Inspection	FWMH 3 (D/S) FWMH 4	Pipe Length	D/S Depth :	0.43
Use:	Foul	Pipe Width :	100 mm	
Year laid :		Pipe Diameter :	100 mm	
Purpose :	Sample survey to determine asset condition	Pipe material :	Polyvinyl chloride	
Total length :	4.81 m	Lining :		

Comment :

1:50	Position	Observation	Grade
Depth: 0.32			



Depth: 0.43

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 60	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 4 (D/S) FWMH 5	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	FWMH 4 0.43 FWMH 5 0.49
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 12.23 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:105 Position
Depth: 0.43
Observation
Grade
FWMH 4

0.00

Start node type, inspection chamber, reference number : FWMH 4

0

0.00

Water level, 5% of the vertical dimension

0

12.04

Line deviates left

0

12.23

Water level, 5% of the vertical dimension

0

FWMH 5

12.23

Finish node type, inspection chamber reference number: FWMH 5

0

Depth: 0.49

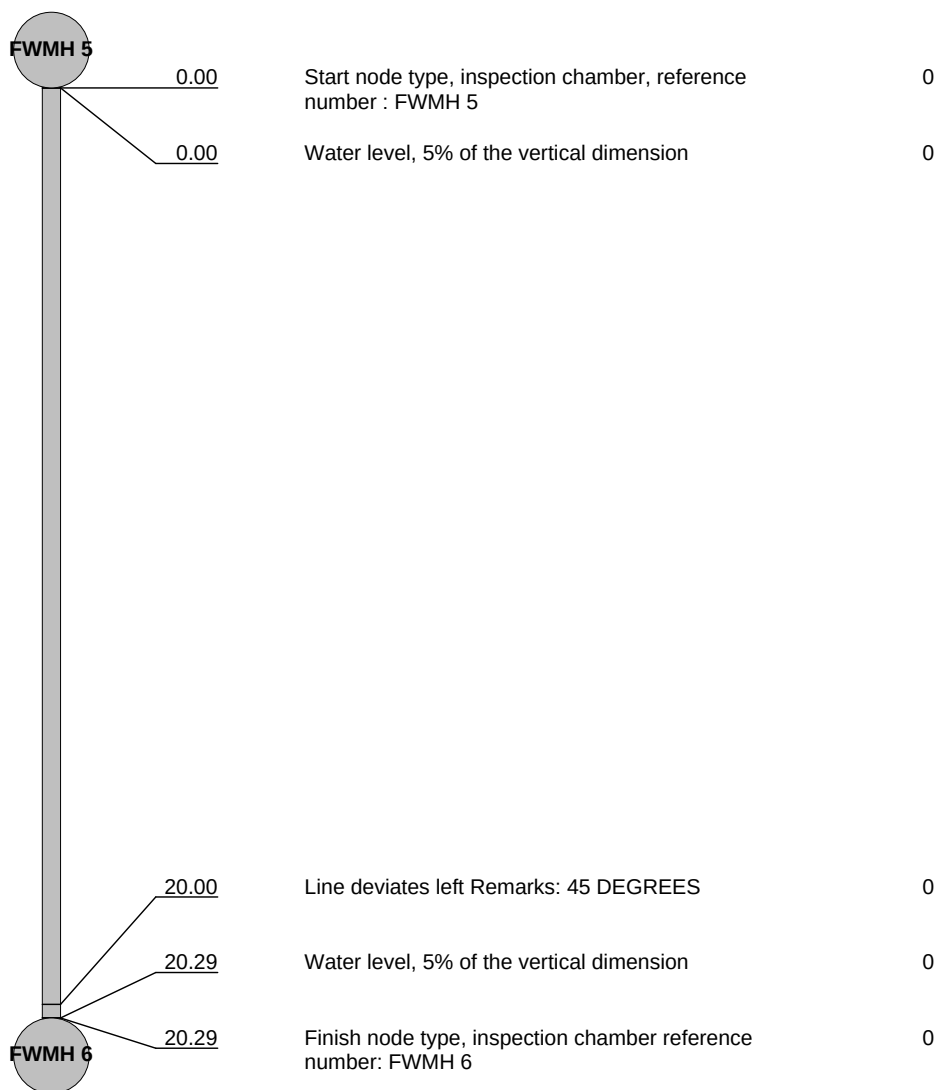
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 61	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 5 (D/S) FWMH 6	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	FWMH 5 0.49 FWMH 6 1.12
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 20.29 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

1:165 Position
Depth: 0.49
Observation
Grade

Depth: 1.12

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 62	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

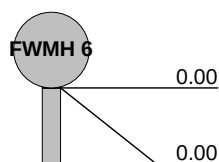
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 6 (D/S) FWMH 7	Location details: Catchment: Pipe Shape : Pipe Length	 Circular 	U/S MH : U/S Depth : D/S MH : D/S Depth :	FWMH 6 1.12 FWMH 7 1.82
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 37.16 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:300 Position
Depth: 1.12

Observation

Grade



Start node type, inspection chamber, reference number : FWMH 6

0

Water level, 5% of the vertical dimension

0

0 m

37.16

Water level, 5% of the vertical dimension

0

37.16

Finish node type, manhole reference number: FWMH 7

0

Depth: 1.82

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 62	PLR Suffix : X
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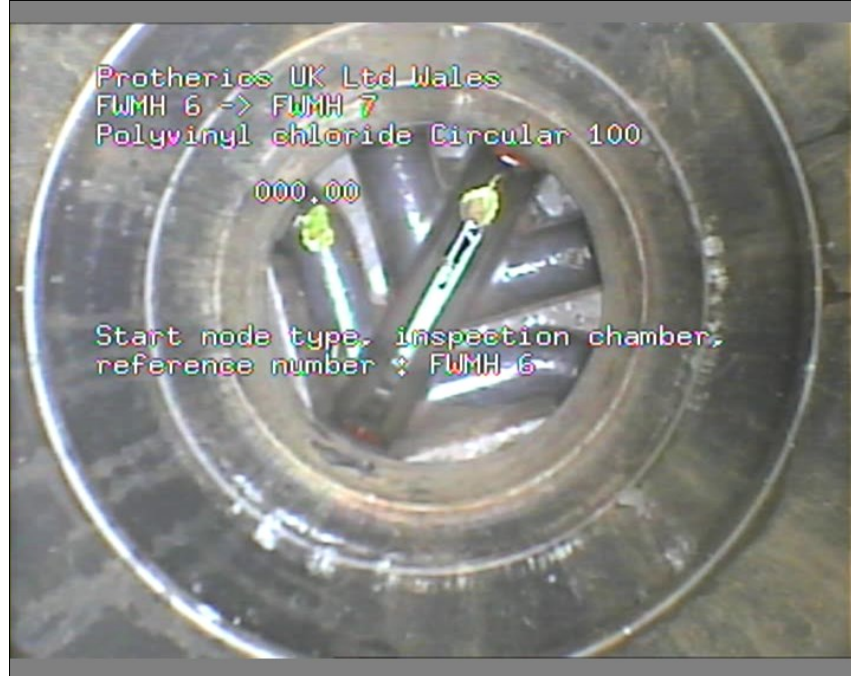


Photo: 63_63_384_A.JPG

0m, Start node type, inspection chamber, reference number : FWMH 6

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 63	PLR Suffix : X
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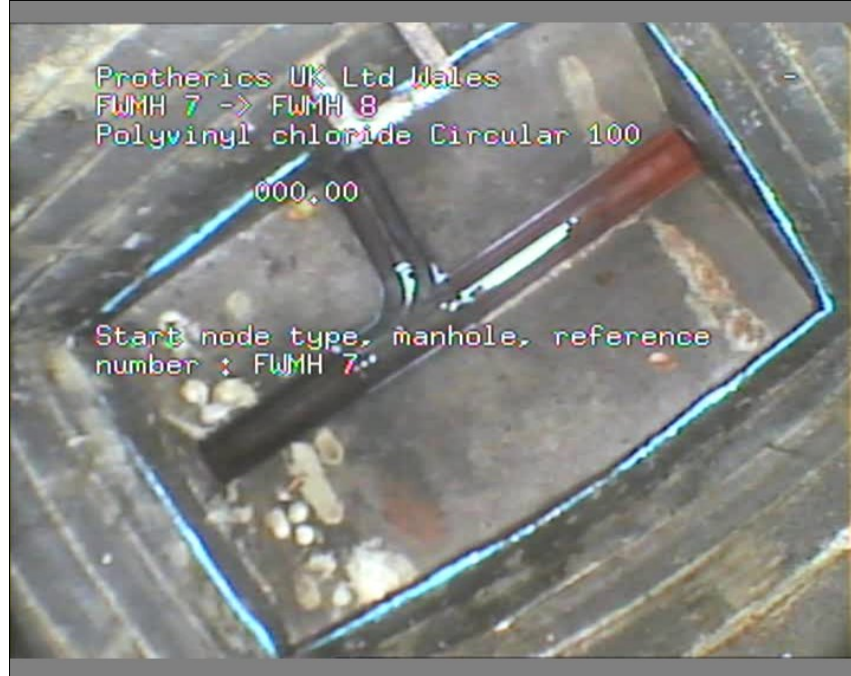


Photo: 64_64_388_A.JPG

0m, Start node type, manhole, reference number : FWMH 7

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 64	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 8 (D/S) SEPTIC TNK	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	FWMH 8 SEPTIC TNK
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 0.45 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

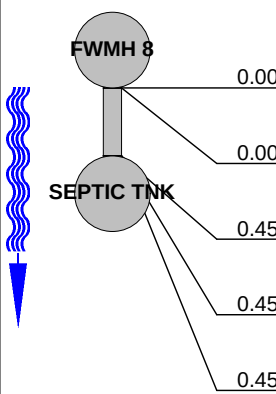
Comment :

1:50

Position

Observation

Grade



		Start node type, manhole, reference number : FWMH 8	0
		Water level, 10% of the vertical dimension	0
		Line deviates down Remarks: 90 DEGREES DROP PIPE	0
		Water level, 10% of the vertical dimension	0
		Finish node type, other special chamber reference number: SEPTIC TANK Remarks: 3 STAGE	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 65	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

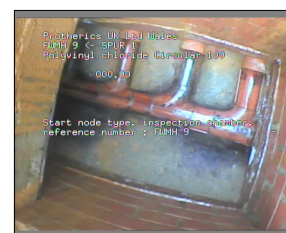
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 9 (U/S) SPUR 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 1 0.82 FWMH 9 0.85
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 18.25 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:150 Position
Depth: 0.85

Observation

Grade



FWMH 9	0.00	Start node type, inspection chamber, reference number : FWMH 9	0
	0.00	Water level, 5% of the vertical dimension	0
	6.22	Line deviates left	0
	8.55	Line deviates right	0
	9.72	Junction, at 12 o'clock, diameter 100mm	0
	18.25	Line deviates up Remarks: 90 DEGREES	0
	18.25	Water level, 10% of the vertical dimension	0
SPUR 1	18.25	Finish node type, other special chamber reference number: SPUR 1 Remarks: BASE OF STACK PIPE	0

Depth: 0.82

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 65	PLR Suffix : X
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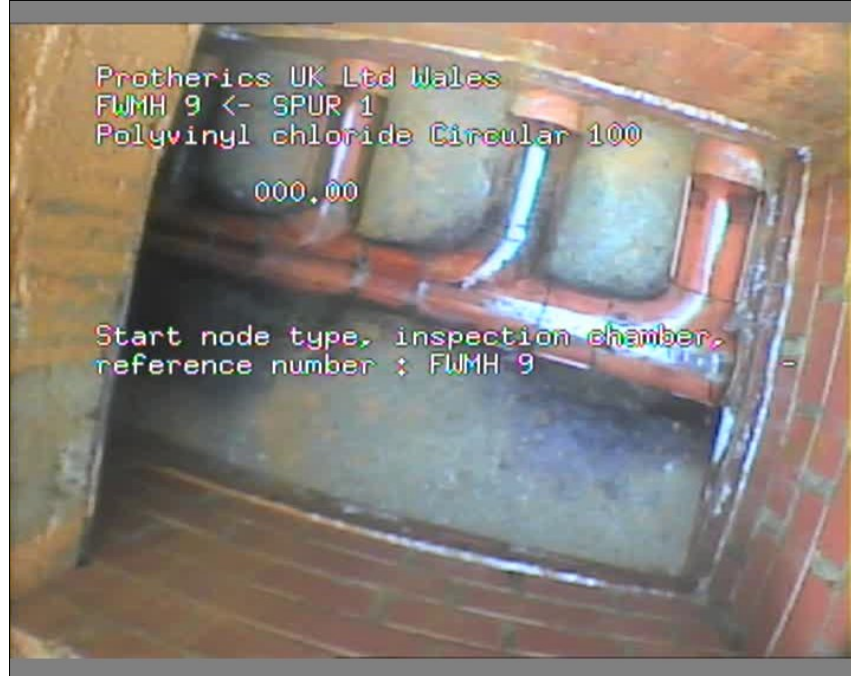


Photo: 66_66_399_A.JPG

0m, Start node type, inspection chamber, reference number : FWMH 9

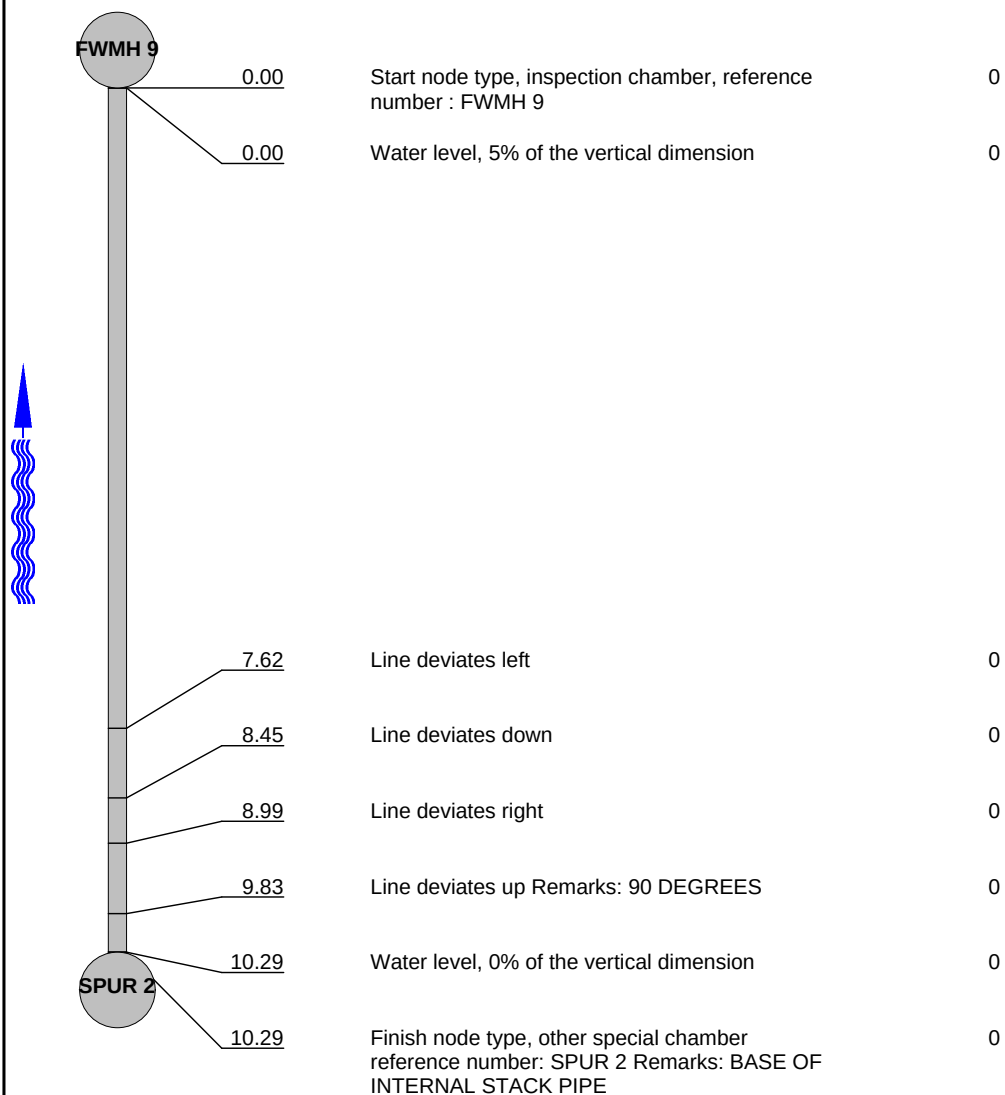
Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 66	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 9 (U/S) SPUR 2	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 2 0.82 FWMH 9 0.85
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 10.29 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:90 Position Observation Grade
Depth: 0.85



Depth: 0.82

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

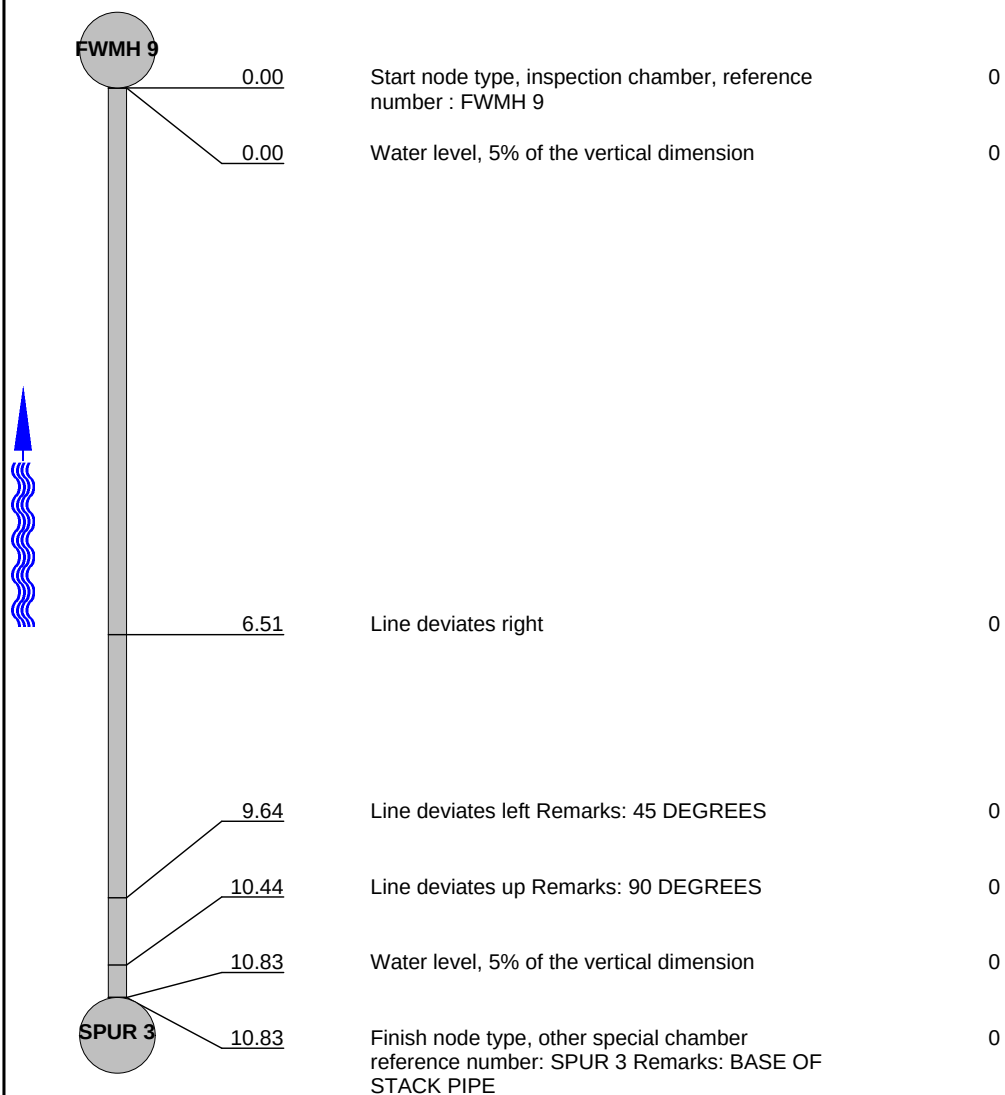
Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 67	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 9 (U/S) SPUR 3	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 3 0.82 FWMH 9 0.85
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 10.83 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

1:90 Position Observation Grade
Depth: 0.85



Depth: 0.82

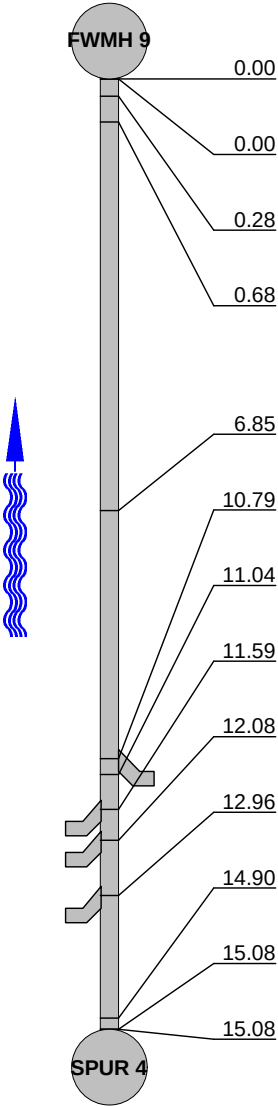
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 68	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 9 (U/S) SPUR 4	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 4 0.82 FWMH 9 0.85
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 15.08 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

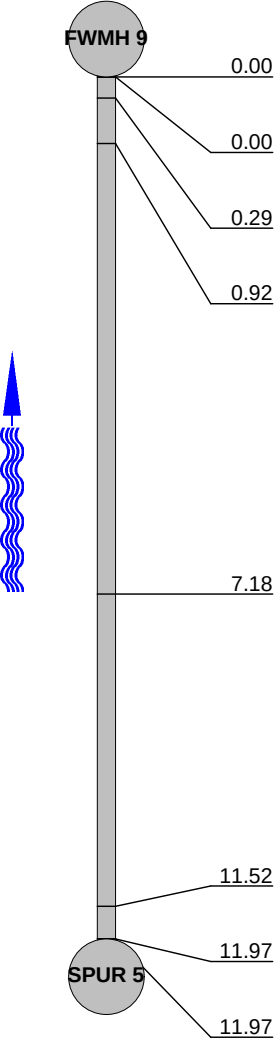
1:120	Position	Observation	Grade						
Depth: 0.85									
	0.00	Start node type, inspection chamber, reference number : FWMH 9	0						
	0.00	Water level, 5% of the vertical dimension	0						
	0.28	Line deviates left	0						
	0.68	Line deviates right	0						
	6.85	Line deviates left	0						
	10.79	Junction, at 9 o'clock, diameter 100mm	0						
	11.04	Line deviates right	0						
	11.59	Junction, at 2 o'clock, diameter 100mm	0						
	12.08	Junction, at 3 o'clock, diameter 100mm	0						
	12.96	Junction, at 3 o'clock, diameter 100mm	0						
	14.90	Line deviates up Remarks: 45 DEGREES	0						
	15.08	Water level, 5% of the vertical dimension	0						
	15.08	Finish node type, gully reference number: SPUR 4 Remarks: INTERNAL WASTE GULLY	0						
Depth: 0.82									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 69	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 9 (U/S) SPUR 5	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 5 0.82 FWMH 9 0.85
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 11.97 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

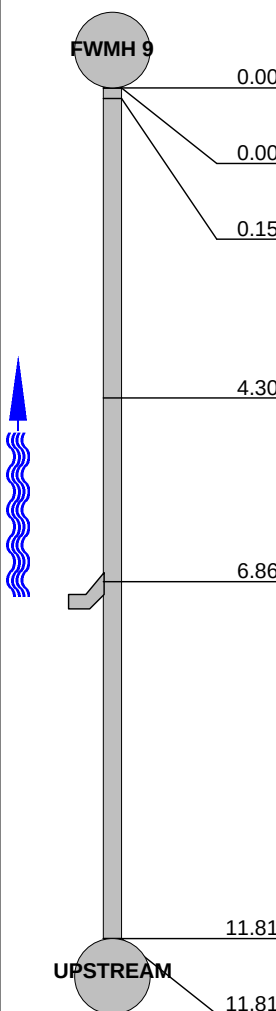
1:105 Position		Observation	Grade						
Depth: 0.85									
	0.00	Start node type, inspection chamber, reference number : FWMH 9	0						
	0.00	Water level, 5% of the vertical dimension	0						
	0.29	Line deviates left	0						
	0.92	Line deviates right	0						
	7.18	Line deviates up	0						
	11.52	Line deviates up Remarks: 90 DEGREES	0						
	11.97	Water level, 5% of the vertical dimension	0						
11.97	Finish node type, other special chamber reference number: SPUR 5 Remarks: BASE OF STACK PIPE	0							
Depth: 0.82									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 70	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 9 (U/S) UPSTREAM	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	UPSTREAM FWMH 9 0.85
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 11.81 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

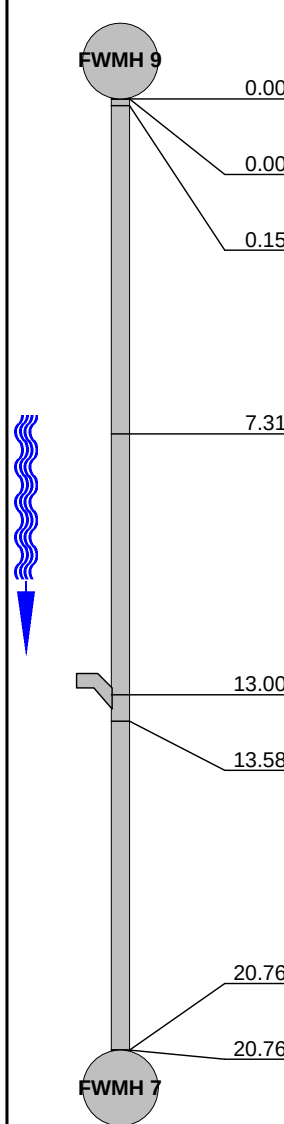
1:105	Position	Observation	Grade																				
Depth: 0.85																							
	0.00	Start node type, inspection chamber, reference number : FWMH 9	0																				
	0.00	Water level, 5% of the vertical dimension	0																				
	0.15	Line deviates left Remarks: 45 DEGREES	0																				
	4.30	Line deviates left	0																				
	6.86	Junction, at 3 o'clock, diameter 100mm	0																				
	11.81	Water level, 10% of the vertical dimension	0																				
	11.81	Finish node type, inspection chamber reference number: UPSTREAM Remarks: INTERNAL FW MH	0																				
<table><tr><td>STR no def</td><td>STR peak</td><td>STR mean</td><td>STR total</td><td>STR grade</td><td>SER no def</td><td>SER peak</td><td>SER mean</td><td>SER total</td><td>SER grade</td></tr><tr><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td></tr></table>				STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade	0	0	0	0	1	0	0	0	0	1
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade														
0	0	0	0	1	0	0	0	0	1														

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 71	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings FWMH 9 (D/S) FWMH 7	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	FWMH 9 0.85 FWMH 7 1.82
Use: Year laid : Purpose : Total length :	Foul Sample survey to determine asset condition 20.76 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:165	Position	Observation	Grade						
Depth: 0.85									
	0.00	Start node type, inspection chamber, reference number : FWMH 9	0						
	0.00	Water level, 5% of the vertical dimension	0						
	0.15	Line deviates left	0						
	7.31	Line deviates right	0						
	13.00	Junction, at 3 o'clock, diameter 100mm	0						
	13.58	Line deviates right	0						
	20.76	Water level, 5% of the vertical dimension	0						
	20.76	Finish node type, manhole reference number: FWMH 7	0						
Depth: 1.82									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 72	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 1 (U/S) SPUR 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 1 0.22 PWMH 1 0.29
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 6.41 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Vitrified clay		

Comment :

1:60	Position	Observation	Grade
Depth: 0.29			

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 72	PLR Suffix : X
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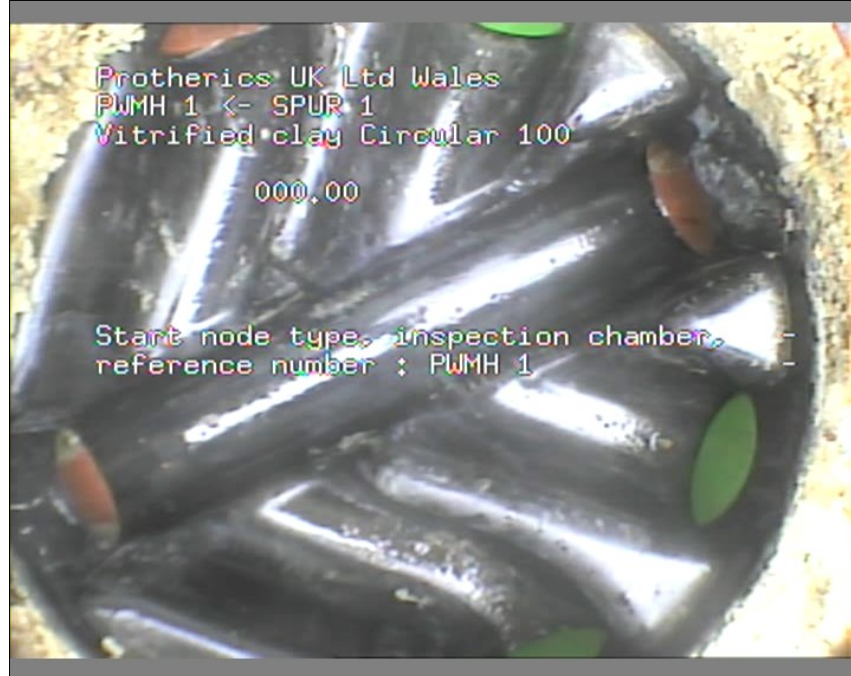


Photo: 77_77_501_A.JPG

0m, Start node type, inspection chamber, reference number : PVMH 1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 73	PLR Suffix : X
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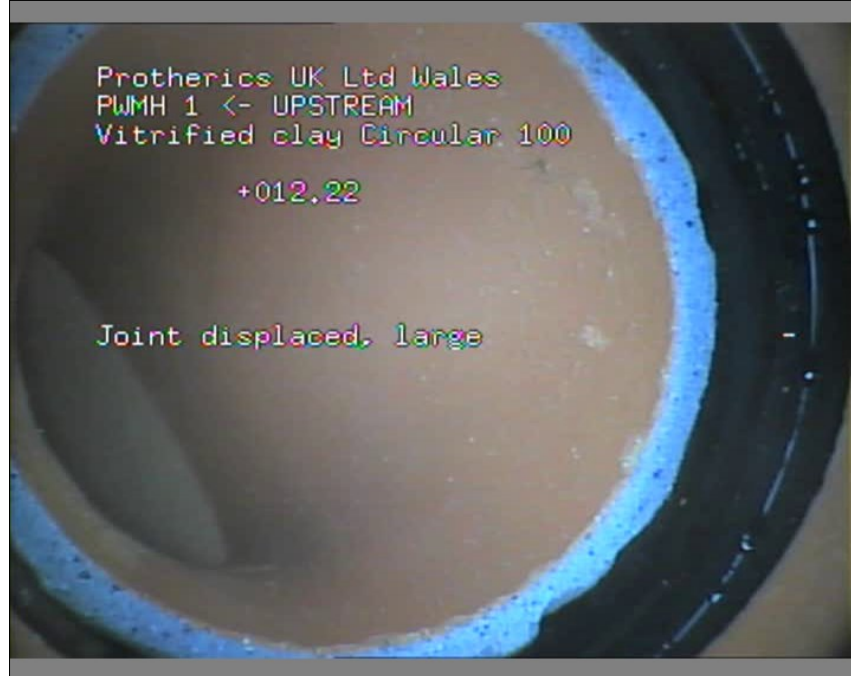


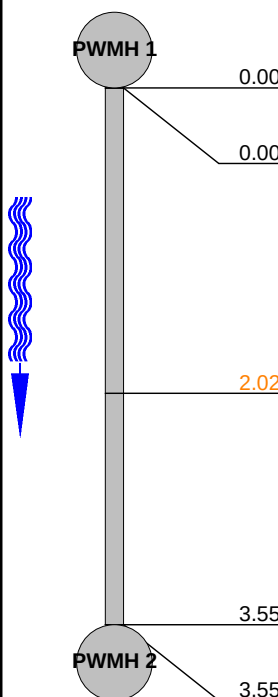
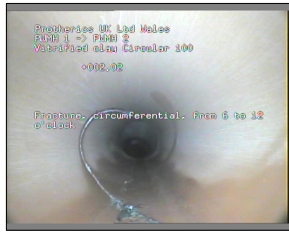
Photo: 78_78_512_A.JPG
12.22m, Joint displaced, large

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 74	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 1 (D/S) PWMH 2	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 1 0.29 PWMH 2 0.35
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 3.55 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Vitrified clay 		

Comment :

1:50	Position	Observation	Grade						
Depth: 0.29									
	PWMH 1	Start node type, inspection chamber, reference number : PWMH 1	0						
	0.00	Water level, 5% of the vertical dimension	0						
	0.00								
	2.02	Fracture, circumferential, from 6 to 12 o'clock	3						
	3.55	Water level, 5% of the vertical dimension	0						
PWMH 2	3.55	Finish node type, inspection chamber reference number: PWMH 2	0						
Depth: 0.35									
									
2.02 m									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	40	11.27	40	3	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 74	PLR Suffix : X
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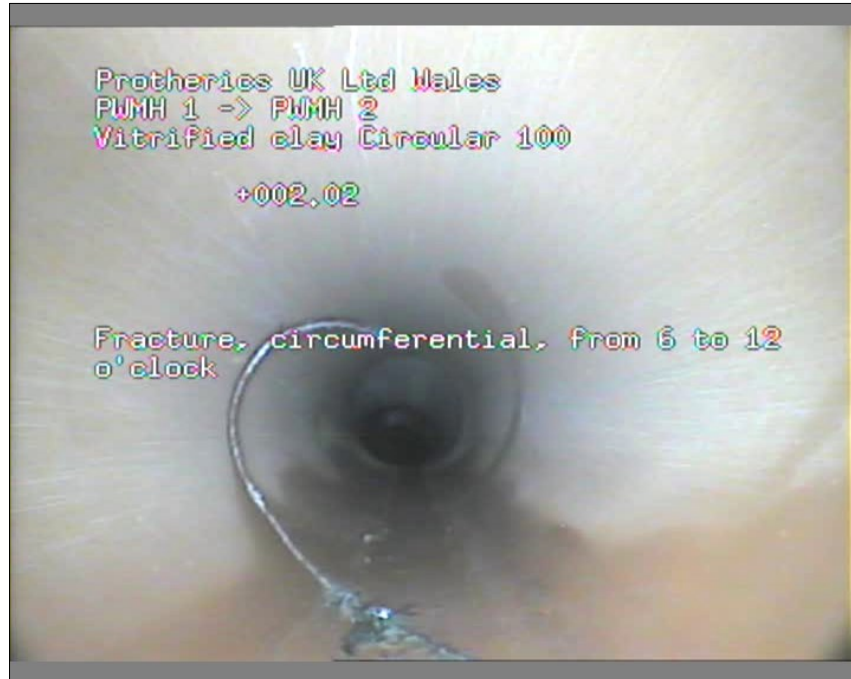


Photo: 79_79_518_A.JPG

2.02m, Fracture, circumferential, from 6 to 12 o'clock

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 75	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

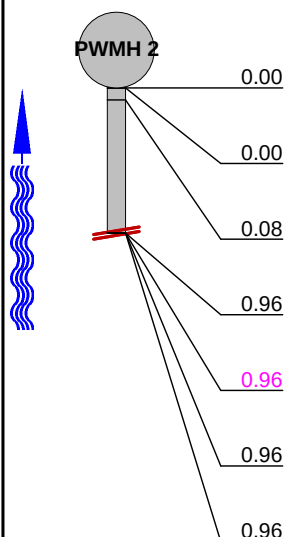
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 2 (U/S) SPUR A	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR A 0.27 PWMH 2 0.35
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 0.96 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

1:50 Position
Depth: 0.35

Observation

Grade



Start node type, inspection chamber, reference number : PWMH 2

Water level, 0% of the vertical dimension

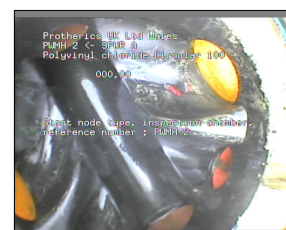
Line deviates left Remarks: 45 DEGREES

Material changes, vitrified clay

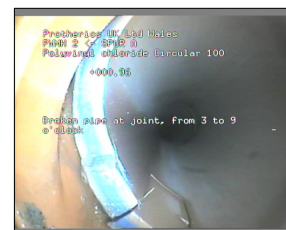
Broken pipe at joint, from 3 to 9 o'clock

General remark Remarks: UNABLE TO PASS
BROKEN JOINT

Survey abandoned Remarks: AT BROKEN
JOINT



0 m



0.96 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 75	PLR Suffix : X
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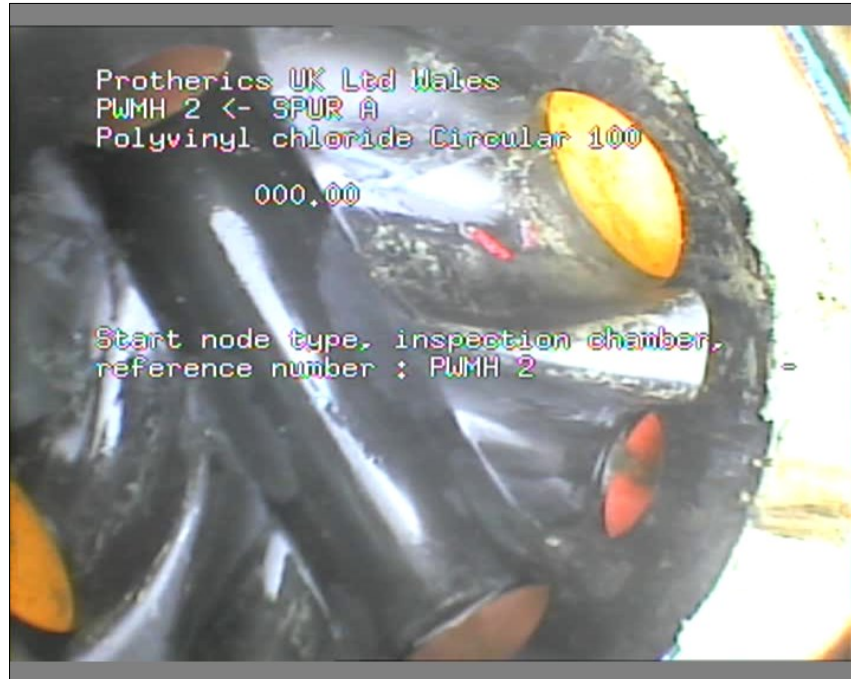


Photo: 80_80_521_A.JPG

0m, Start node type, inspection chamber, reference number : PWMH 2

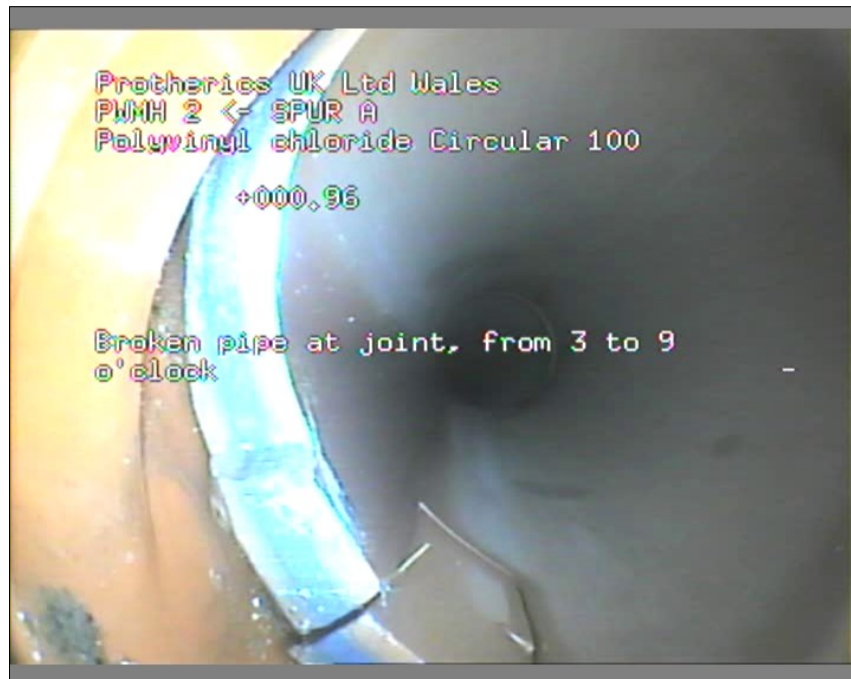


Photo: 80_80_525_A.JPG

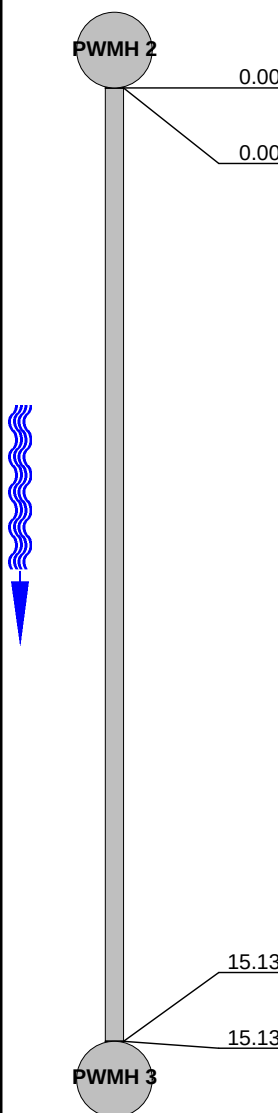
0.96m, Broken pipe at joint, from 3 to 9 o'clock

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 76	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 2 (D/S) PWMH 3	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 2 0.35 PWMH 3
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 15.13 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay		

Comment :

1:120 Depth: 0.35	Position	Observation	Grade						
	0.00	Start node type, inspection chamber, reference number : PWMH 2	0						
	0.00	Water level, 0% of the vertical dimension	0						
	15.13	Water level, 5% of the vertical dimension	0						
	15.13	Finish node type, inspection chamber reference number: PWMH 3	0						
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 77	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 3 (D/S) PWMH 4	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 3 PWMH 4 0.67
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 26.76 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride 		

Comment :

1:225	Position	Observation	Grade
	0.00	Start node type, inspection chamber, reference number : PWMH 3	0
	0.00	Water level, 5% of the vertical dimension	0
	0.31	Line deviates left Remarks: 45 DEGREES	0
	0.83	Material changes, vitrified clay	0
	26.27	Line deviates right Remarks: 45 DEGREES	0
	26.27	Material changes, polyvinyl chloride	0
	26.76	Water level, 5% of the vertical dimension	0
	26.76	Finish node type, inspection chamber reference number: PWMH 4	0
	Depth: 0.67		

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 78	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

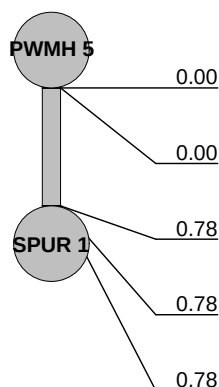
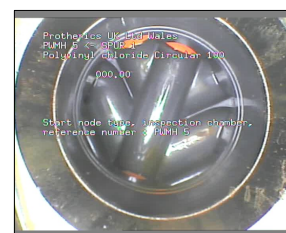
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 5 (U/S) SPUR 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 1 0.41 PWMH 5 0.47
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 0.78 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:50 Position
Depth: 0.47

Observation

Grade



Start node type, inspection chamber, reference number : PWMH 5

0

Water level, 5% of the vertical dimension

0

General remark Remarks: CAPPED OFF

0

Water level, 0% of the vertical dimension

0

Finish node type, other special chamber reference number: SPUR 1 Remarks: CAPPED OFF PIPE

0

Depth: 0.41

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 78	PLR Suffix : X
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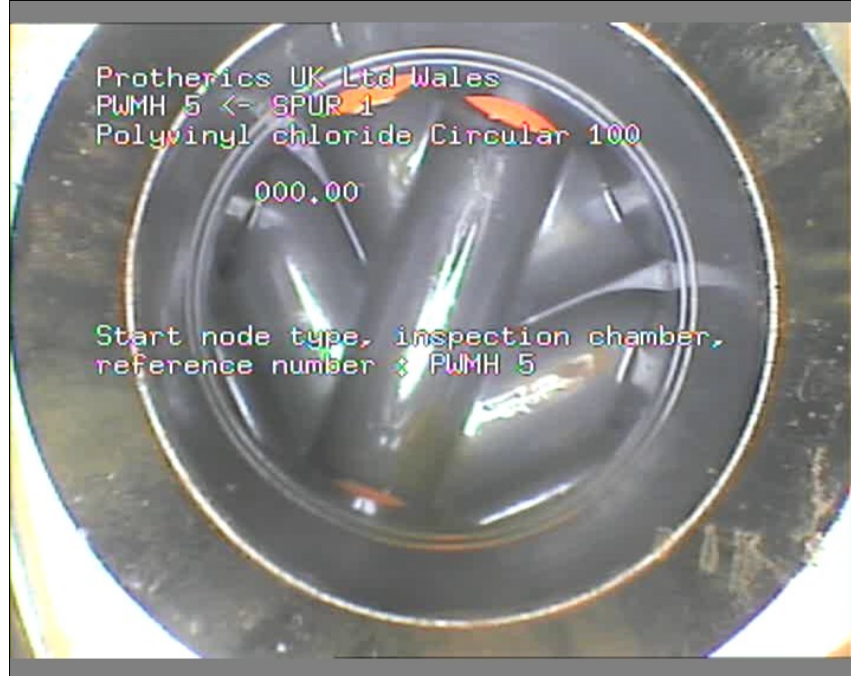


Photo: 83_83_540_A.JPG

0m, Start node type, inspection chamber, reference number : PWMH 5

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 79	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 5 (U/S) UPSTREAM	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	UPSTREAM PWMH 5 0.47
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 9.30 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

1:75	Position	Observation	Grade						
Depth: 0.47									
	PWMH 5	Start node type, inspection chamber, reference number : PWMH 5	0						
	0.00	Water level, 0% of the vertical dimension	0						
	0.05	Line deviates right Remarks: 45 DEGREES	0						
	9.10	Line deviates right	0						
	9.10	Line deviates up	0						
	9.30	General remark Remarks: PIPE IS REDUNDANT AND NOT CAPPED OFF UNDER BUILDING	0						
	9.30	Water level, 0% of the vertical dimension	0						
	9.30	Finish node type, other special chamber reference number: UPSTREAM Remarks: END OF PIPE	0						
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 79	PLR Suffix : X
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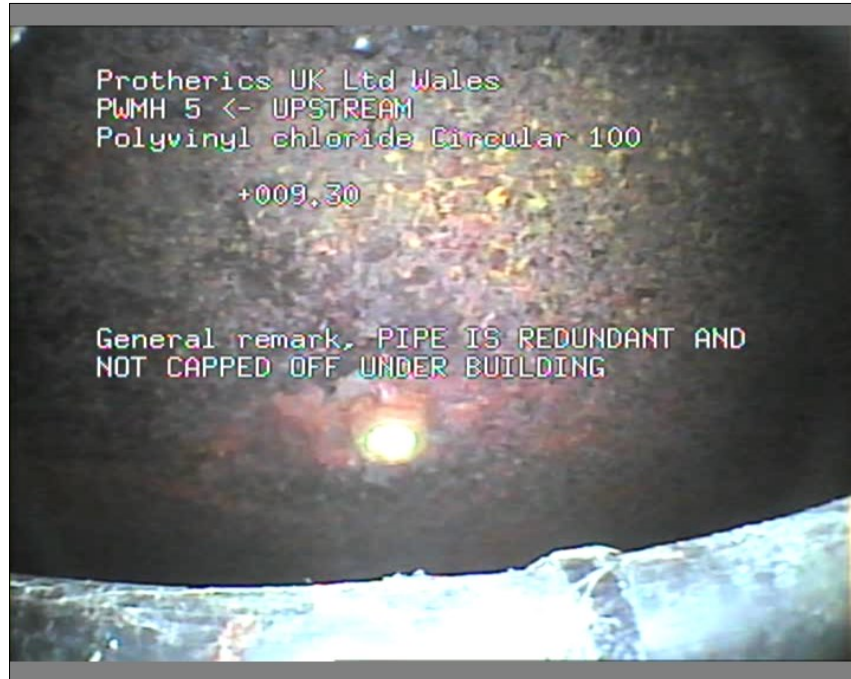


Photo: 84_84_551_A.JPG
 9.3m, General remark

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 80	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 5 (D/S) PWMH 6	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 5 0.46 PWMH 6 0.36
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 14.93 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:120 Position
Depth: 0.46

Observation

Grade

PWMH 5

0.00

Start node type, inspection chamber, reference number : PWMH 5

0

0.00

Water level, 0% of the vertical dimension

0

14.93

Water level, 5% of the vertical dimension

0

14.93

Finish node type, inspection chamber reference number: PWMH 6 Remarks: *INSTALLED THE WRONG WAY AROUND*

0

PWMH 6

Depth: 0.36

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 81	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 6 (D/S) PWMH 7	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 6 0.36 PWMH 7 0.42
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 5.77 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

1:60 Position
Depth: 0.36
Observation
Grade
PWMH 6

0.00

Start node type, inspection chamber, reference number : PWMH 6 Remarks: *INSTALLED THE WRONG WAY AROUND*

0

0.00

Water level, 0% of the vertical dimension

0

5.77

Water level, 5% of the vertical dimension

0

PWMH 7

5.77

Finish node type, inspection chamber reference number: PWMH 7 Remarks: *INSTALLED THE WRONG WAY AROUND*

0

Depth: 0.42

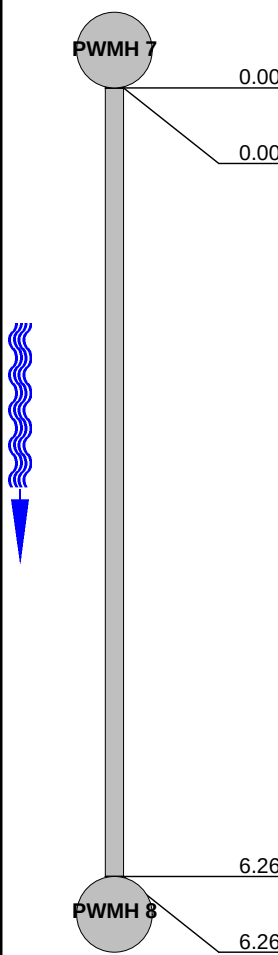
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 82	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 7 (D/S) PWMH 8	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 7 0.42 PWMH 8 0.44
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 6.26 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:60	Position	Observation	Grade						
Depth: 0.42									
	0.00	Start node type, inspection chamber, reference number : PWMH 7 Remarks: *INSTALLED THE WRONG WAY AROUND*	0						
	0.00	Water level, 5% of the vertical dimension	0						
	6.26	Water level, 5% of the vertical dimension	0						
	6.26	Finish node type, inspection chamber reference number: PWMH 8 Remarks: *INSTALLED THE WRONG WAY AROUND*	0						
Depth: 0.44									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

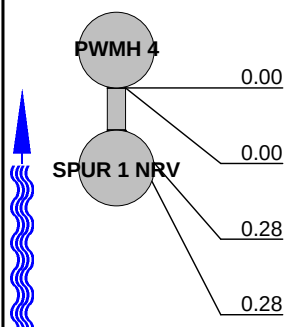
Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 83	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 4 (U/S) SPUR 1 NRV	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 1 NRV 0.57 PWMH 4 0.66
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 0.28 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride 		

Comment :

1:50 Position

Depth: 0.66



Depth: 0.57

Observation

Start node type, inspection chamber, reference number : PWMH 4

Water level, 5% of the vertical dimension

Water level, 5% of the vertical dimension

Finish node type, other special chamber
reference number: SPUR 1 NRV Remarks: NON
RETURN VALVE

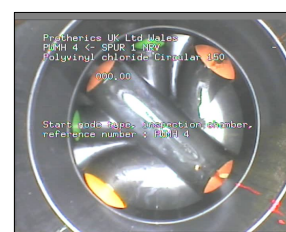
Grade

0

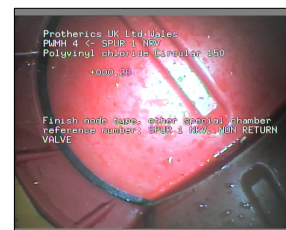
0

0

0



0 m



0.28 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 83	PLR Suffix : X
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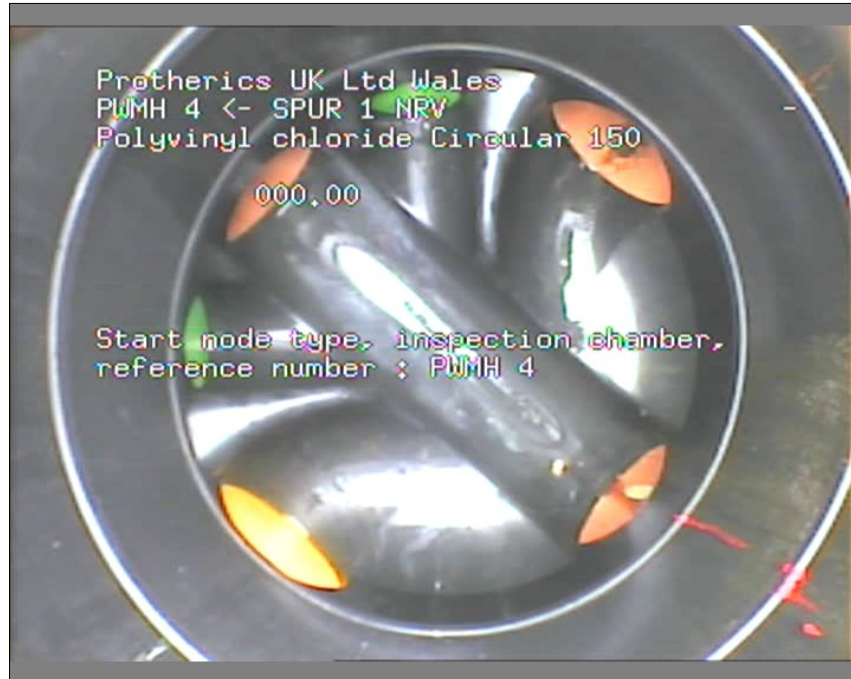


Photo: 88_88_566_A.JPG

0m, Start node type, inspection chamber, reference number : PWMH 4

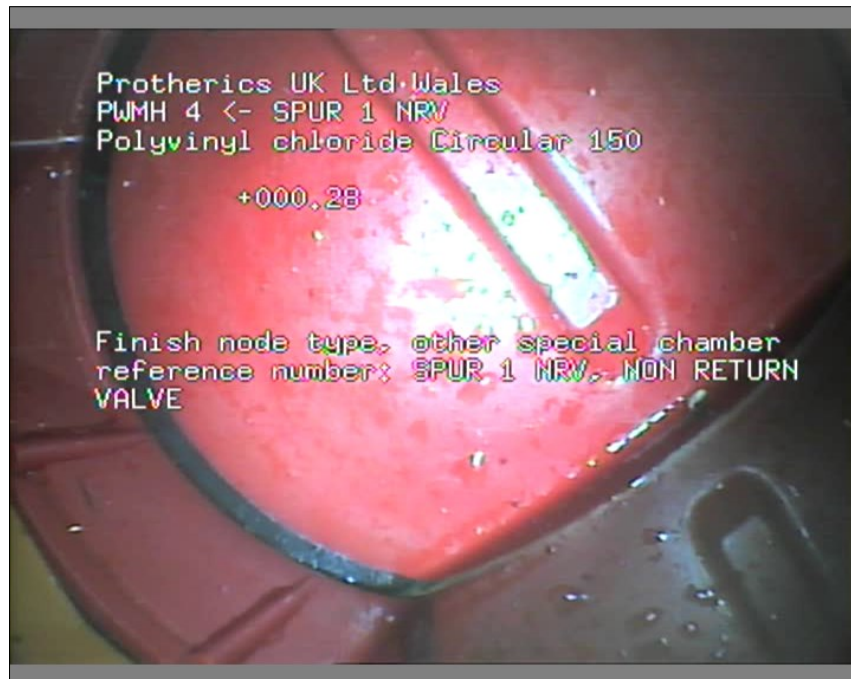


Photo: 88_88_569_A.JPG

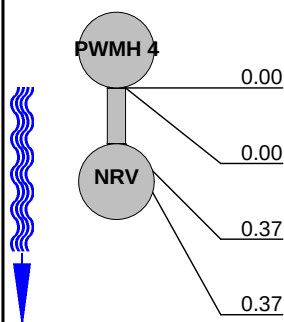
0.28m, Finish node type, other special chamber reference number: SPUR 1 NRV

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 84	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 4 (D/S) NRV	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 4 0.66 NRV
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 0.37 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride		

Comment :

1:50 **Position**
Depth: 0.66
Observation
Grade


Start node type, inspection chamber, reference number : PWMH 4

Water level, 5% of the vertical dimension

Water level, 5% of the vertical dimension

 Finish node type, other special chamber
 reference number: NRV Remarks: NON
 RETURN VALVE

0

0

0

0



0.37 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 84	PLR Suffix : X
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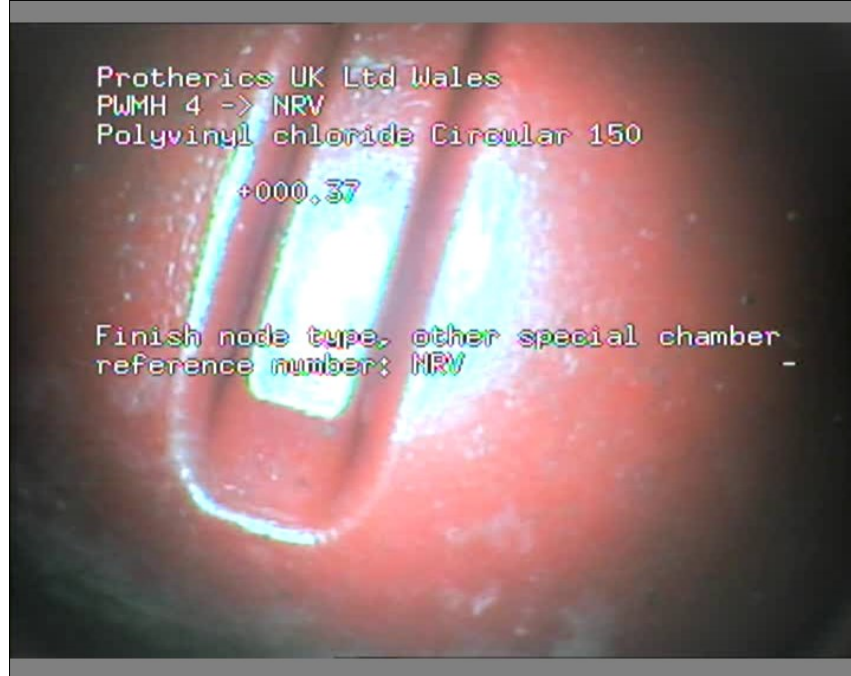


Photo: 89_89_574_A.JPG

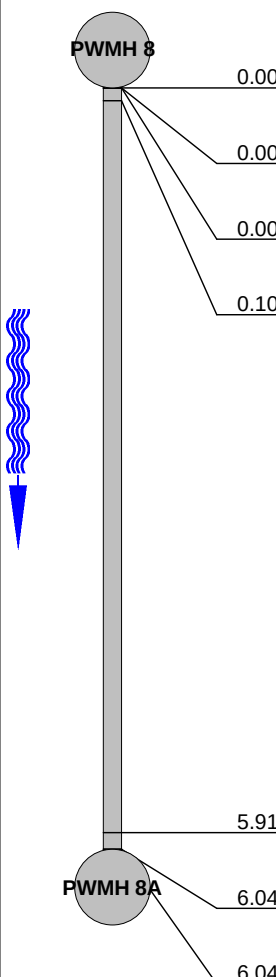
0.37m, Finish node type, other special chamber reference number: NRV

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 85	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 8 0.43 PWMH 8A
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 6.04 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

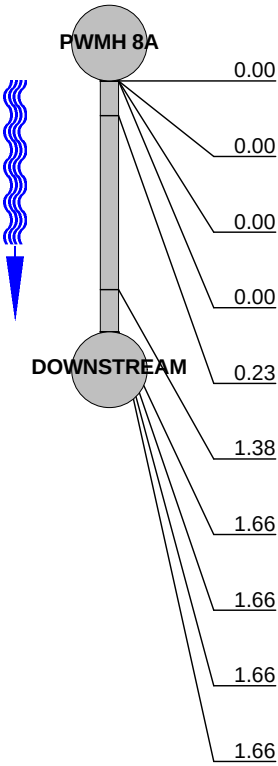
1:60 Depth: 0.43	Position	Observation	Grade						
	0.00	Start node type, inspection chamber, reference number : PWMH 8 Remarks: *INSTALLED THE WRONG WAY AROUND*	0						
	0.00	Start node type, inspection chamber, reference number : PWMH 8	0						
	0.00	Water level, 5% of the vertical dimension	0						
	0.10	Line deviates right Remarks: 45 DEGREES	0						
	5.91	Line deviates left Remarks: 45 DEGREES	0						
	6.04	Water level, 5% of the vertical dimension	0						
	6.04	Finish node type, inspection chamber reference number: PWMH 8A	0						
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 86	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 8A (D/S) DOWNSTREAM	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 8A DOWNSTREAM
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 1.66 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride		

Comment :

1:50	Position	Observation	Grade
	PWMH 8A	Start node type, inspection chamber, reference number : PWMH 8A	0
	0.00	Water level, 0% of the vertical dimension	0
	0.00	General remark Remarks: SURCHARGED WHEN FIRST LIFTED, TANKER HAD TO SUCK WATER OUT TO CLEAR	0
	0.00	General remark Remarks: HPW JETTING HOSE STOPS AND RUBBLE RETURNS	0
	DOWNSTREAM	Line deviates left	0
	0.23		
	1.38	Loss of vision, camera under water	0
	1.66	Line deviates up Remarks: 90 DEGREES	0
	1.66	General remark Remarks: PIPE ENDS AT POP UP, BACK TO FRONT??	0
	1.66	Water level, 0% of the vertical dimension	0
	1.66	Finish node type, other special chamber reference number: DOWNSTREAM Remarks: AT POP UP / REDUNDANT PIPE	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 87	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

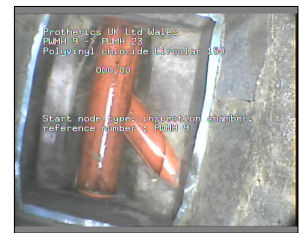
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 9 (D/S) PWMH 23	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 9 0.94 PWMH 23 0.8
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 8.94 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride 		

Comment :

1:75 Position
Depth: 0.94

Observation

Grade



PWMH 9

0.00

Start node type, inspection chamber, reference number : PWMH 9

0

0.00

Start node type, inspection chamber, reference number : PWMH 9

0

0.00

Water level, 5% of the vertical dimension

0

7.56

Line deviates left Remarks: 45 DEGREES

0

8.57

Line deviates left

0

8.94

Water level, 5% of the vertical dimension

0

PWMH 23

8.94

Finish node type, inspection chamber reference number: PWMH 23

0

Depth: 0.8

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 87	PLR Suffix : X
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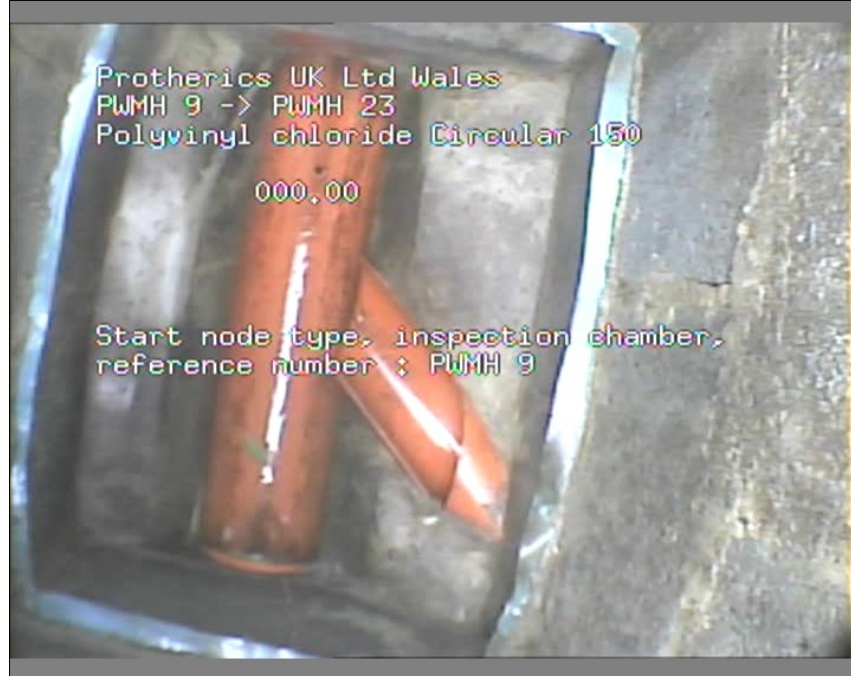


Photo: 92_92_592_A.JPG

0m, Start node type, inspection chamber, reference number : PWMH 9

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 88	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 9 (U/S) SPUR A	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR A 0.86 PWMH 9 0.94
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 8.23 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:75	Position	Observation	Grade						
Depth: 0.94									
	PWMH 9	Start node type, inspection chamber, reference number : PWMH 9	0						
	0.00	Water level, 5% of the vertical dimension	0						
	0.00								
	4.74	Deformed sewer/drain, 15% Remarks: BULGE AT 2 O'CLOCK	5						
	5.15	Line deviates left	0						
	7.67	Line deviates right Remarks: 45 DEGREES	0						
	8.23	General remark Remarks: FILLED IN / CAPPED OFF	0						
	8.23	Water level, 0% of the vertical dimension	0						
	8.23	Finish node type, other special chamber reference number: SPUR A Remarks: AT FILLED IN / CAPPED OFF PIPE	0						
	8.23								
Depth: 0.86									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	165	20.05	165	5	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 88	PLR Suffix : X
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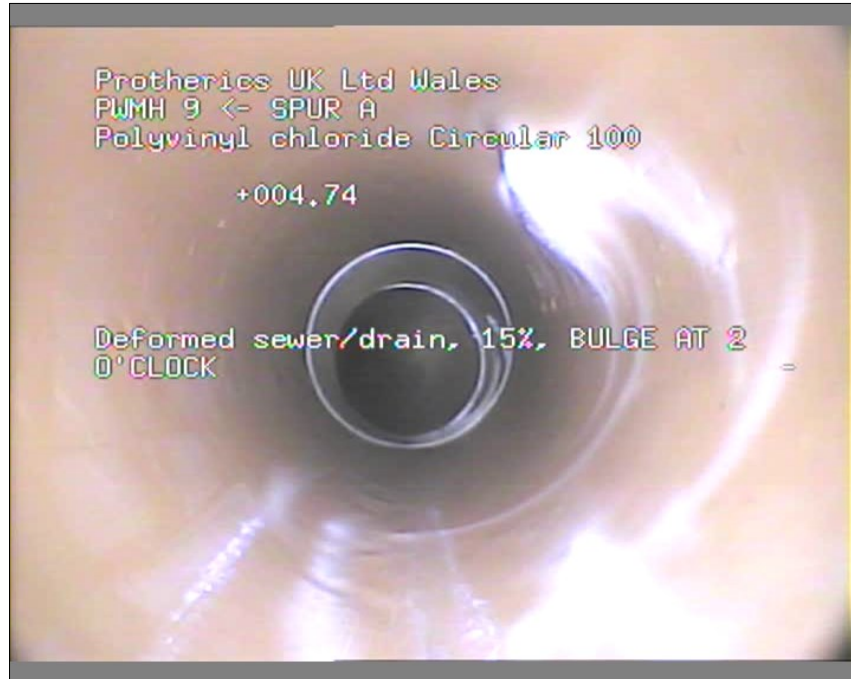


Photo: 93_93_601_A.JPG
 4.74m, Deformed sewer/drain, 15%

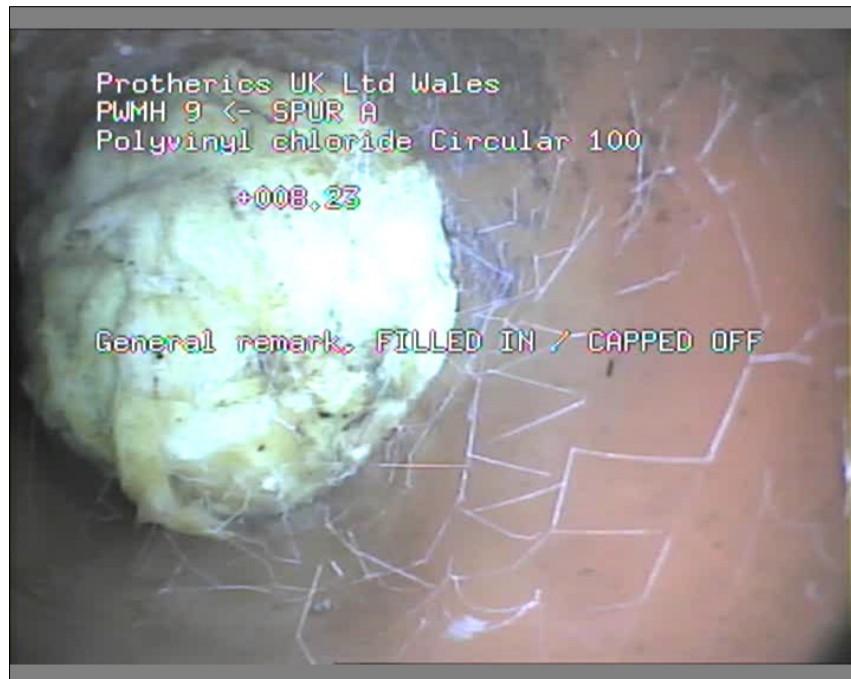


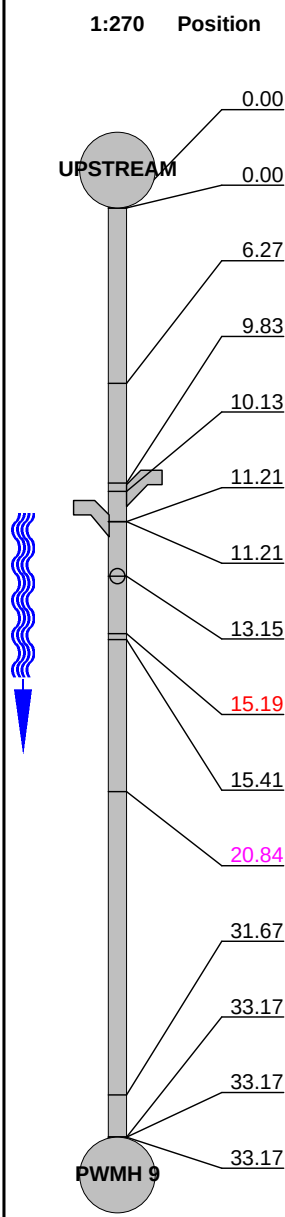
Photo: 93_93_604_A.JPG
 8.23m, General remark

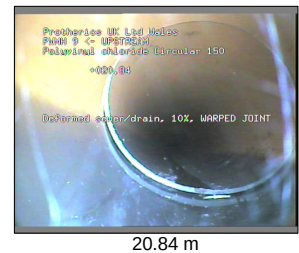
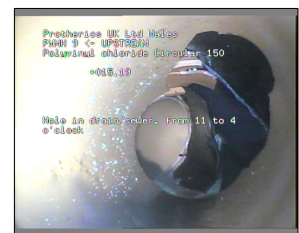
Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 89	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	UPSTREAM PWMH 9 0.94
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 33.17 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride Epoxy		

Comment :

1:270	Position	Observation	Grade
	0.00	Start node type, inspection chamber, reference number : PWMH 9	0
	0.00	Water level, 0% of the vertical dimension	0
	6.27	Line deviates left Remarks: 45 DEGREES	0
	9.83	Lining changes to other lining type, polyvinyl chloride Remarks: END OF LINER	0
	10.13	Junction, at 10 o'clock, diameter 100mm	0
	11.21	Junction, at 3 o'clock, diameter 150mm	0
	11.21	Line deviates left	0
	13.15	Junction, at 12 o'clock, diameter 100mm	0
	15.19	Hole in drain/sewer, from 11 to 4 o'clock	5
	15.41	Line deviates left Remarks: 45 DEGREES	0
	20.84	Deformed sewer/drain, 10% Remarks: WARPED JOINT	4
	31.67	Line deviates left Remarks: 45 DEGREES	0
	33.17	General remark Remarks: LINE FILLED IN / CAPPED OFF	0
	33.17	Water level, 0% of the vertical dimension	0
	33.17	Finish node type, other special chamber reference number: CAPPED OFF Remarks: / FILLED IN PIPE	0



Depth: 0.94

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	165	7.39	245	5	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 89	PLR Suffix : X
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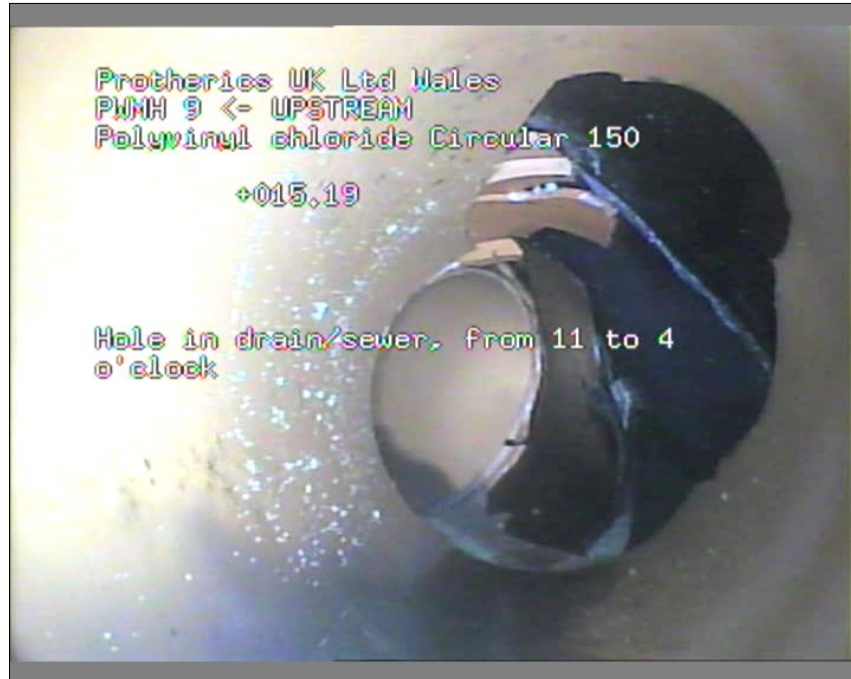


Photo: 94_94_615_A.JPG
 15.19m, Hole in drain/sewer, from 11 to 4 o'clock

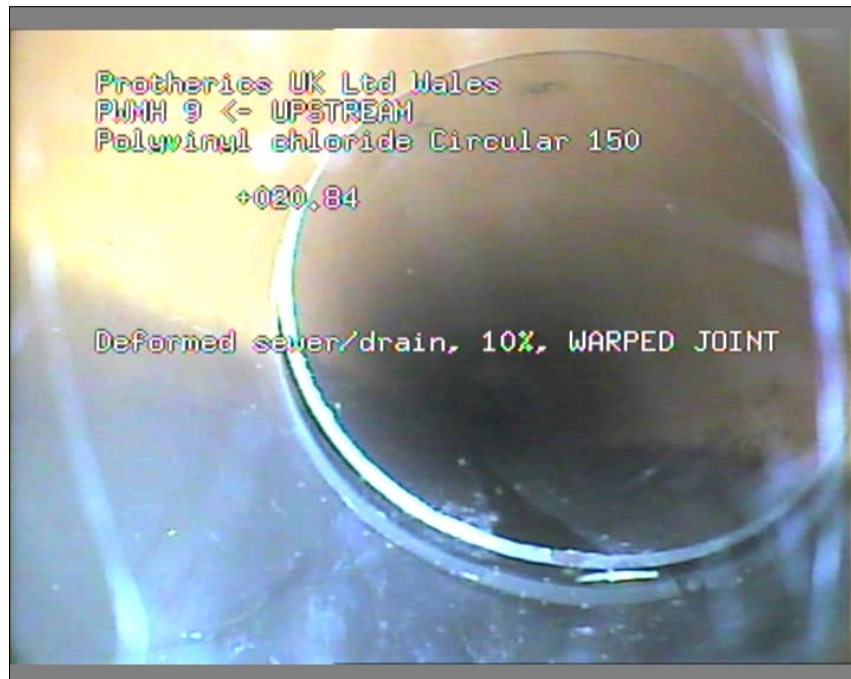


Photo: 94_94_617_A.JPG
 20.84m, Deformed sewer/drain, 10%

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 89	PLR Suffix : X
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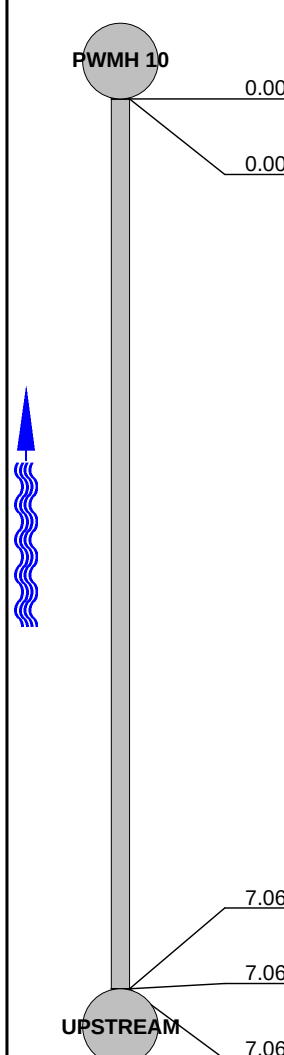
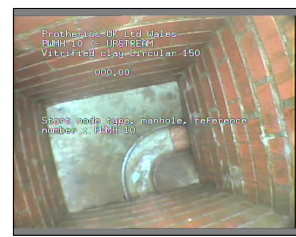
Photo: 94_94_619_A.JPG
 33.17m, General remark

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 90	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 10 (U/S) UPSTREAM	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	UPSTREAM PWMH 10 1.25
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 7.06 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:60	Position	Observation	Grade						
Depth: 1.25									
	0.00	Start node type, manhole, reference number : PWMH 10	0	 0 m					
	0.00	Water level, 25% of the vertical dimension	0						
	7.06	Line deviates left	0						
	7.06	Water level, 25% of the vertical dimension	0						
	7.06	Finish node type, manhole reference number: INTERNAL PWMH	0						
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 90	PLR Suffix : X
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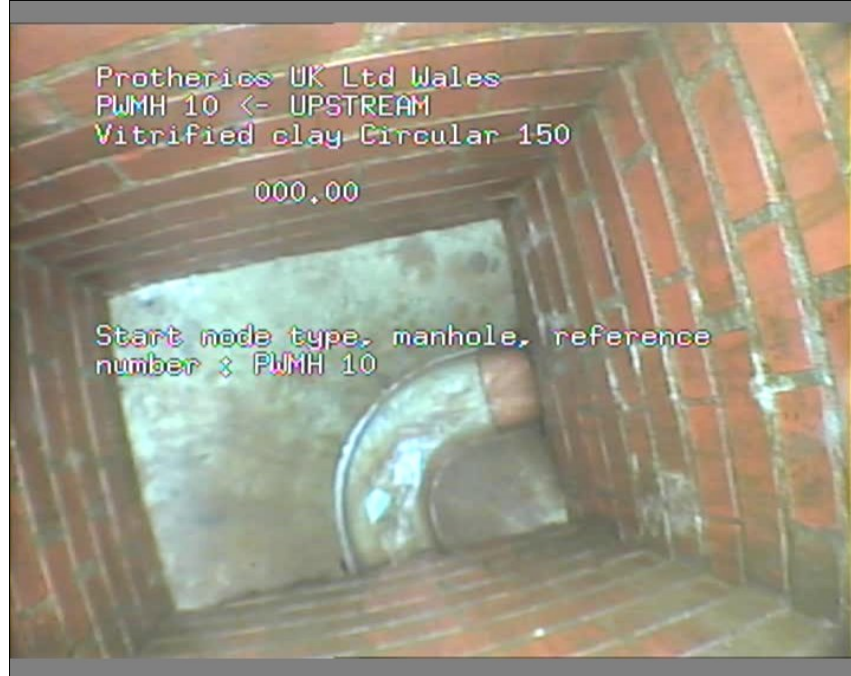


Photo: 95_95_622_A.JPG

0m, Start node type, manhole, reference number : PVMH 10

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 91	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 10 (D/S) PWMH 11	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 10 1.25 PWMH 11 1.25
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 5.12 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

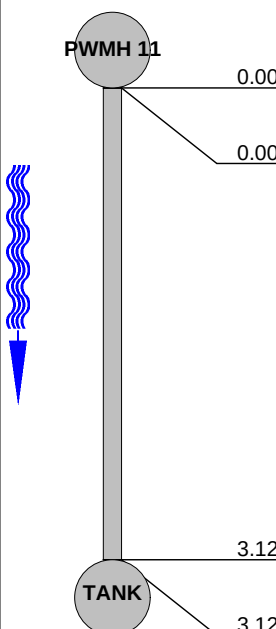
1:50	Position	Observation	Grade						
Depth: 1.25									
	PWMH 10	Start node type, manhole, reference number : PWMH 10	0						
	0.00	Water level, 25% of the vertical dimension	0						
	5.12	Water level, 25% of the vertical dimension	0						
	PWMH 11	Finish node type, manhole reference number: PWMH 11	0						
Depth: 1.25									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 92	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 11 (D/S) TANK	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 11 1.25 TANK
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 3.12 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay		

Comment :

1:50	Position	Observation	Grade
Depth: 1.25			
	PWMH 11	Start node type, manhole, reference number : PWMH 11	0
		Water level, 25% of the vertical dimension	0
		Water level, 25% of the vertical dimension	0
	TANK	Finish node type, other special chamber reference number: TANK	0

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 92	PLR Suffix : X
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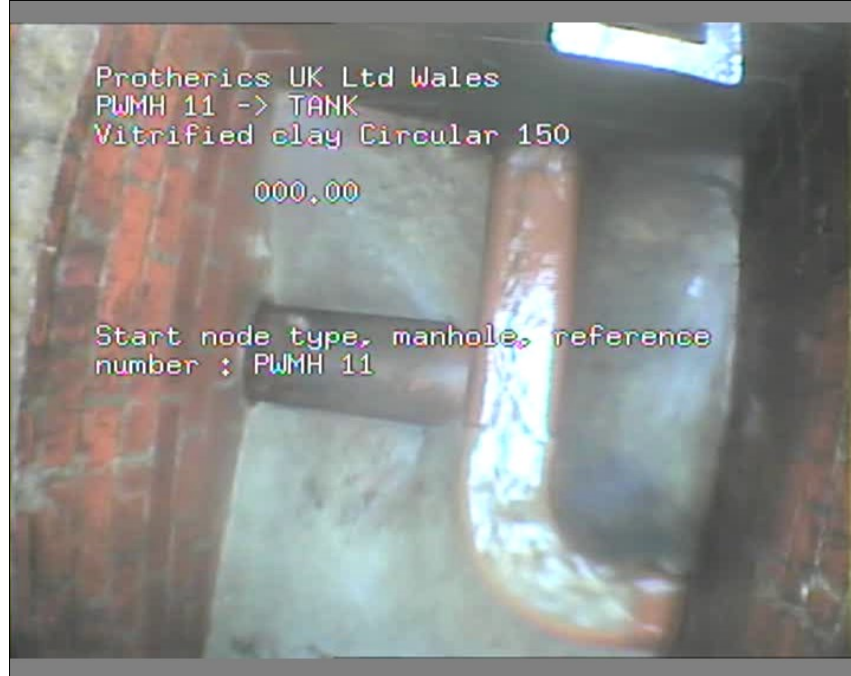


Photo: 97_97_631_A.JPG

0m, Start node type, manhole, reference number : PVMH 11

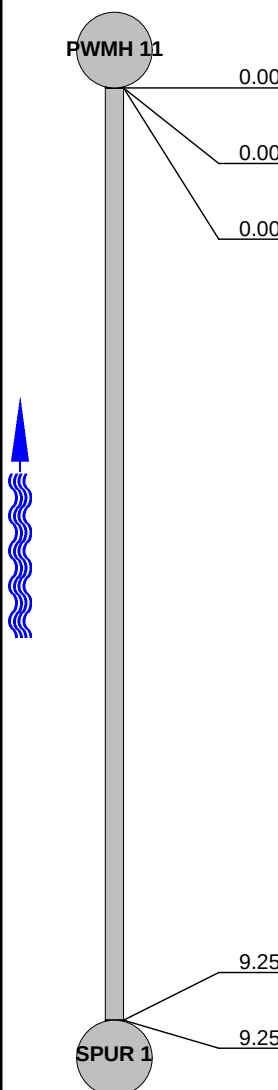
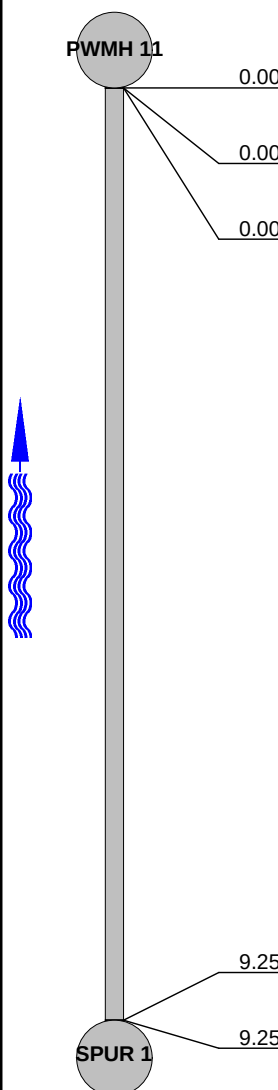
Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 93	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 11 (U/S) SPUR 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 1 1.14 PWMH 11 1.25
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Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 9.25 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay
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Comment :	OVERFLOW PIPE
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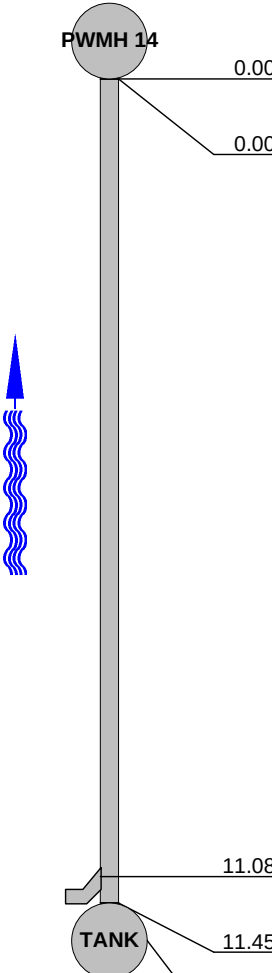
1:75	Position	Observation	Grade						
Depth: 1.25									
	0.00	Start node type, manhole, reference number : PWMH 11	0						
	0.00	Water level, 0% of the vertical dimension	0						
	0.00	General remark Remarks: OVERFLOW PIPE	0						
	9.25	Water level, 0% of the vertical dimension	0						
	9.25	Finish node type, other special chamber reference number: PW LINE Remarks: OVERFLOW JUNCTION	0						
Depth: 1.14									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 94	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 14 (U/S) TANK	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	TANK PWMH 14 0.9
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 11.45 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:105	Position	Observation	Grade						
Depth: 0.9									
	 PWMH 14								
	 0.00	Start node type, manhole, reference number : PWMH 14	0						
	 0.00	Water level, 5% of the vertical dimension	0						
	 11.08	Junction, at 3 o'clock, diameter 150mm	0						
	 11.45	Water level, 10% of the vertical dimension	0						
	 TANK	Finish node type, gully reference number: TANK Remarks: PART OF TANK SET UP	0						
									
0 m									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 94	PLR Suffix : X
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Photo: 99_99_640_A.JPG

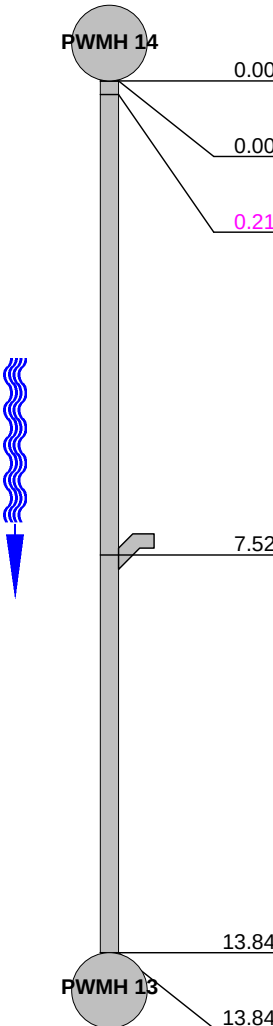
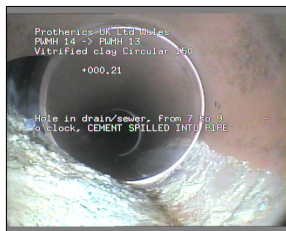
0m, Start node type, manhole, reference number : PWMH 14

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 95	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 14 (D/S) PWMH 13	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 14 0.9 PWMH 13 1.51
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 13.84 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:120	Position	Observation	Grade						
Depth: 0.9									
	Start node type, manhole, reference number : PWMH 14	0							
	Water level, 5% of the vertical dimension	0							
	Hole in drain/sewer, from 7 to 9 o'clock Remarks: CEMENT SPILLED INTO PIPE	4							
	Junction, at 9 o'clock, diameter 150mm Remarks: OVERFLOW LINE (FROM PWMH 11 SPUR 1)	0							
	Water level, 0% of the vertical dimension	0							
Finish node type, manhole reference number: PWMH 13	0								
Depth: 1.51									
									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	80	5.78	80	4	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 95	PLR Suffix : X
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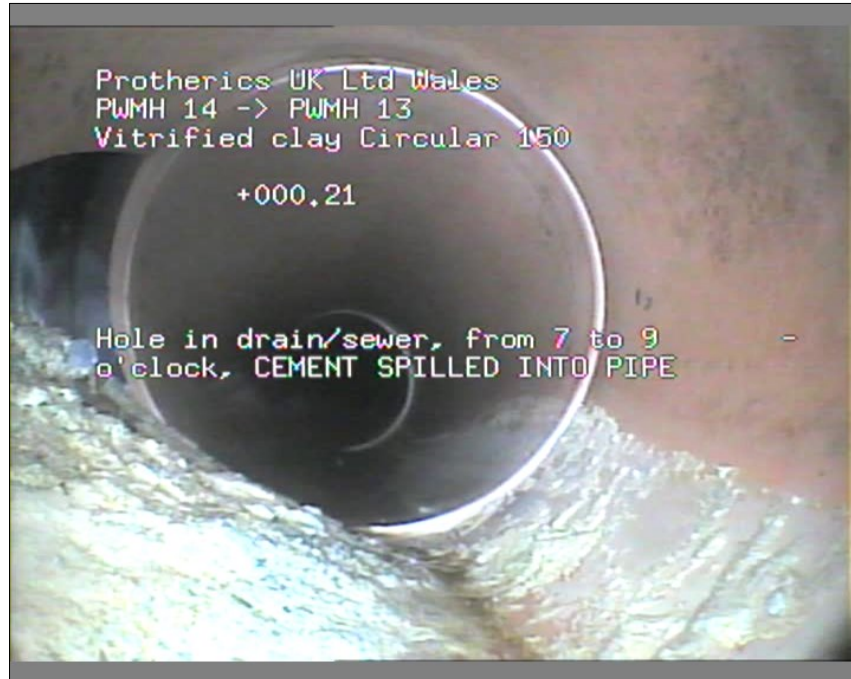


Photo: 100_100_647_A.JPG
0.21m, Hole in drain/sewer, from 7 to 9 o'clock

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 96	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place :	Protherics UK Ltd	Location details:	U/S MH :	UPSTREAM
Road :	Wales	Catchment:	U/S Depth :	
Location	Property with buildings	Pipe Shape : Circular	D/S MH :	PWMH 12
Inspection	PWMH 12 (U/S) UPSTREAM	Pipe Length	D/S Depth :	1.41
Use:	Trade effluent	Pipe Width :	150 mm	
Year laid :		Pipe Diameter :	150 mm	
Purpose :	Sample survey to determine asset condition	Pipe material :	Vitrified clay	
Total length :	7.44 m	Lining :		

Comment :

1:60	Position	Observation	Grade
Depth: 1.41			
	0.00	Start node type, manhole, reference number : PWMH 12	0
	0.00	Water level, 0% of the vertical dimension	0
	5.53	Crack, circumferential, from 12 to 12 o'clock Remarks: LIGHT SURFACE CRACK	2
	7.44	General remark Remarks: PIPE FILLED IN / CAPPED	0
	7.44	Water level, 0% of the vertical dimension	0
UPSTREAM	7.44	Finish node type, other special chamber reference number: UPSTREAM Remarks: FILLED / CAPPED PIPE	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	1.34	10	2	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 96	PLR Suffix : X
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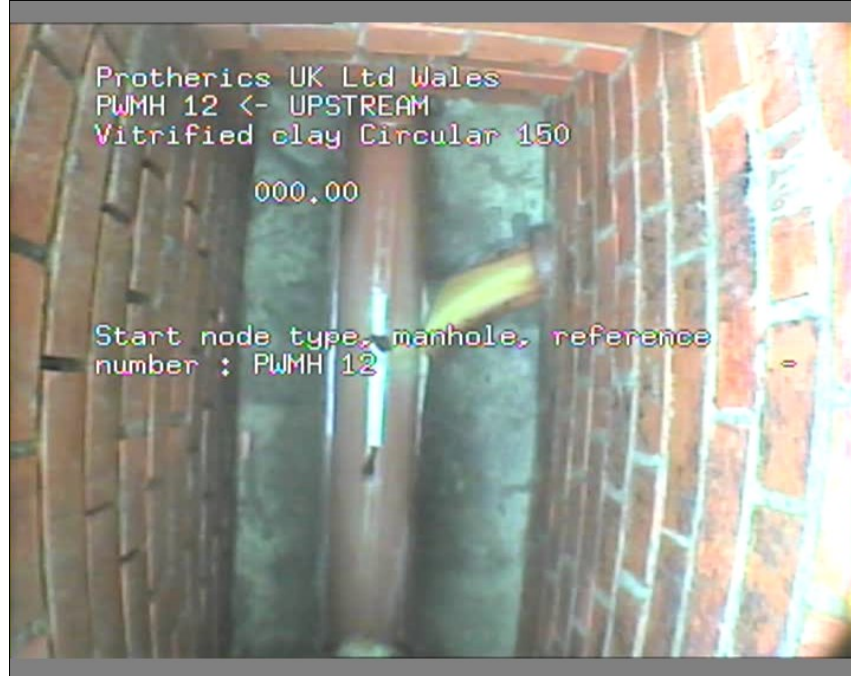


Photo: 101_101_651_A.JPG
 0m, Start node type, manhole, reference number : PWMH 12

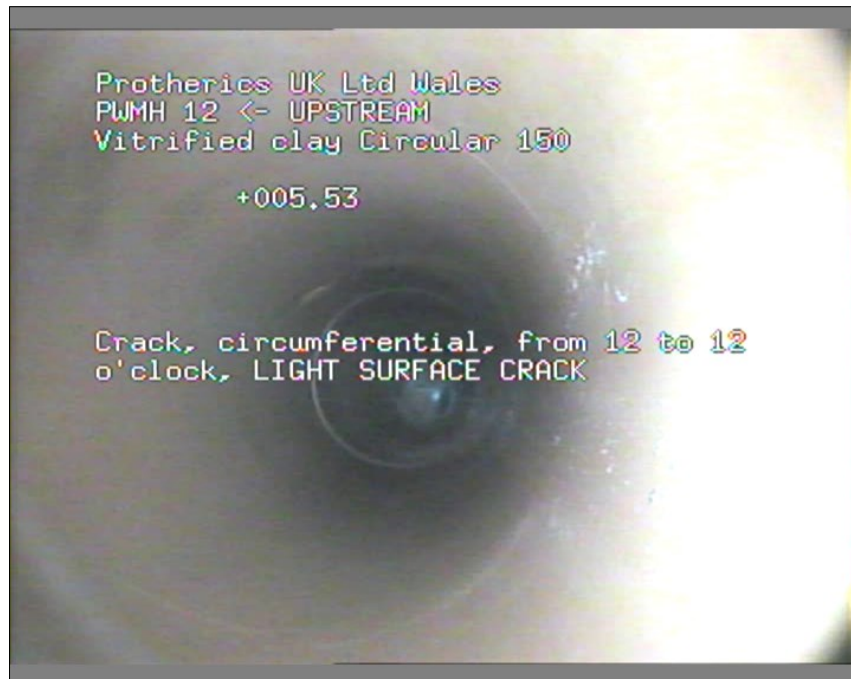


Photo: 101_101_653_A.JPG
 5.53m, Crack, circumferential, from 12 to 12 o'clock

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 96	PLR Suffix : X
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Photo: 101_101_654_A.JPG
 7.44m, General remark

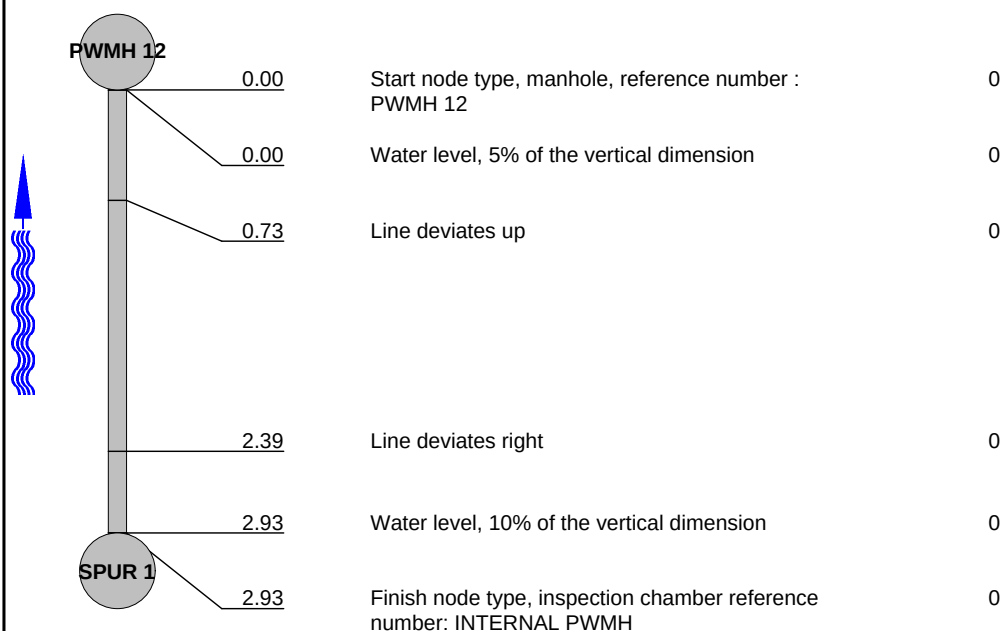
Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 97	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 12 (U/S) SPUR 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 1 1.22 PWMH 12 1.4
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 2.93 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Vitrified clay		

Comment :

1:50 Position Observation Grade
Depth: 1.4



Depth: 1.22

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 98	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 12 (D/S) PWMH 13	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 12 1.4 PWMH 13 1.51
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 8.95 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay Epoxy		

Comment :

1:75	Position	Observation	Grade						
Depth: 1.4									
	PWMH 12	Start node type, manhole, reference number : PWMH 12	0						
	0.00	Water level, 5% of the vertical dimension	0						
	8.95	Water level, 5% of the vertical dimension	0						
	PWMH 13	Finish node type, manhole reference number: PWMH 13	0						
Depth: 1.51									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 99	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

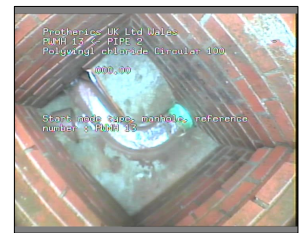
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 13 (U/S) PIPE 2	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 2 1.37 PWMH 13 1.51
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 11.48 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride Epoxy		

Comment :

1:105 Position
Depth: 1.51

Observation

Grade



PWMH 13

0.00

Start node type, manhole, reference number :
PWMH 13

0

0.00

Water level, 0% of the vertical dimension

0

5.04

Line deviates right

0

5.41

Line deviates right

0

11.48

Water level, 0% of the vertical dimension

0

PIPE 2

11.48

Finish node type, gully reference number: PIPE 2
Remarks: PROCESSED WATER GULLY

0

Depth: 1.37

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 99	PLR Suffix : X
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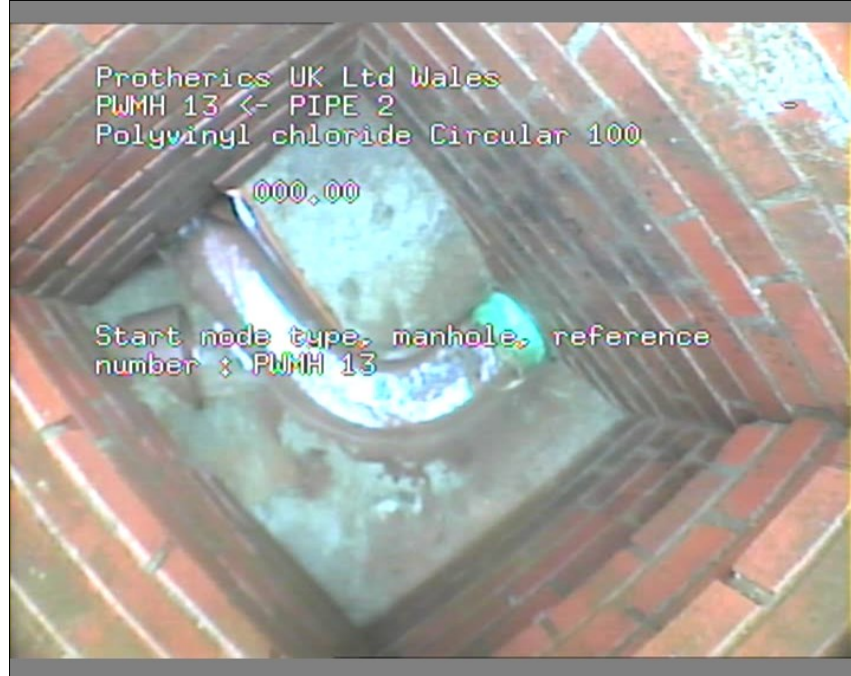


Photo: 104_104_667_A.JPG

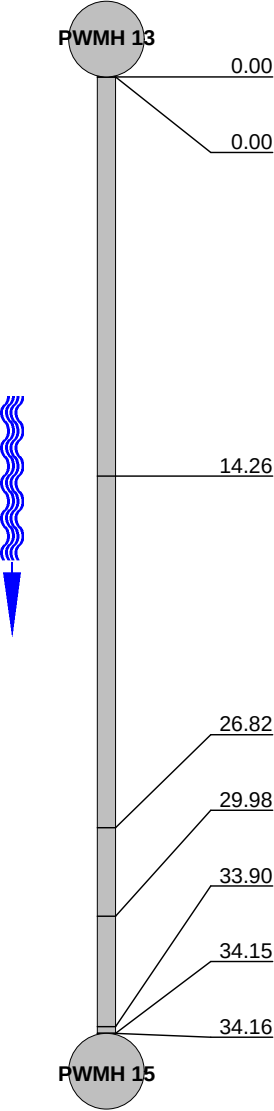
0m, Start node type, manhole, reference number : PVMH 13

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 100	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 13 (D/S) PWMH 15	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 13 1.51 PWMH 15 1.94
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 34.16 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay Epoxy		

Comment :

1:270	Position	Observation	Grade						
Depth: 1.51									
	0.00	Start node type, manhole, reference number : PWMH 13	0						
	0.00	Water level, 25% of the vertical dimension	0						
	14.26	Lining changes to other lining type, vitrified clay Remarks: END OF LINER	0						
	26.82	Line deviates right	0						
	29.98	Line deviates right	0						
	33.90	Line deviates right	0						
	34.15	Finish node type, manhole reference number: PWMH 15	0						
	34.16	Water level, 15% of the vertical dimension	0						
Depth: 1.94									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 101	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 15 (D/S) TANK	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 15 1.94 TANK
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 21.30 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay		

Comment :

1:180 Position
Depth: 1.94
Observation
Grade
PWMH 15

0.00

 Start node type, manhole, reference number :
 PWMH 15

0

0.00

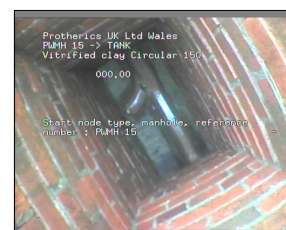
Water level, 10% of the vertical dimension

0

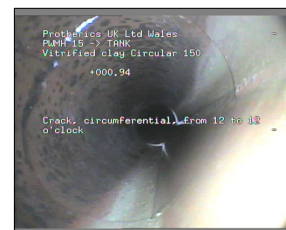
0.94

Crack, circumferential, from 12 to 12 o'clock

2



0 m



0.94 m

21.30

Line deviates down Remarks: 90 DEGREES

0

21.30

Water level, 15% of the vertical dimension

0

21.30

 Finish node type, other special chamber
 reference number: TANK

0

TANK


STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	0.47	10	2	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 101	PLR Suffix : X
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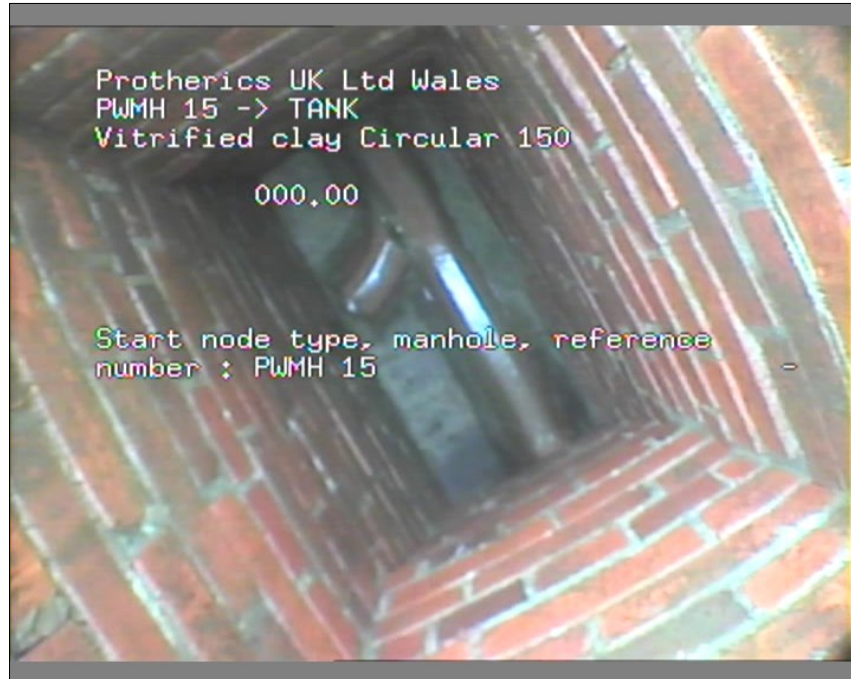


Photo: 106_106_681_A.JPG
 0m, Start node type, manhole, reference number : PVMH 15

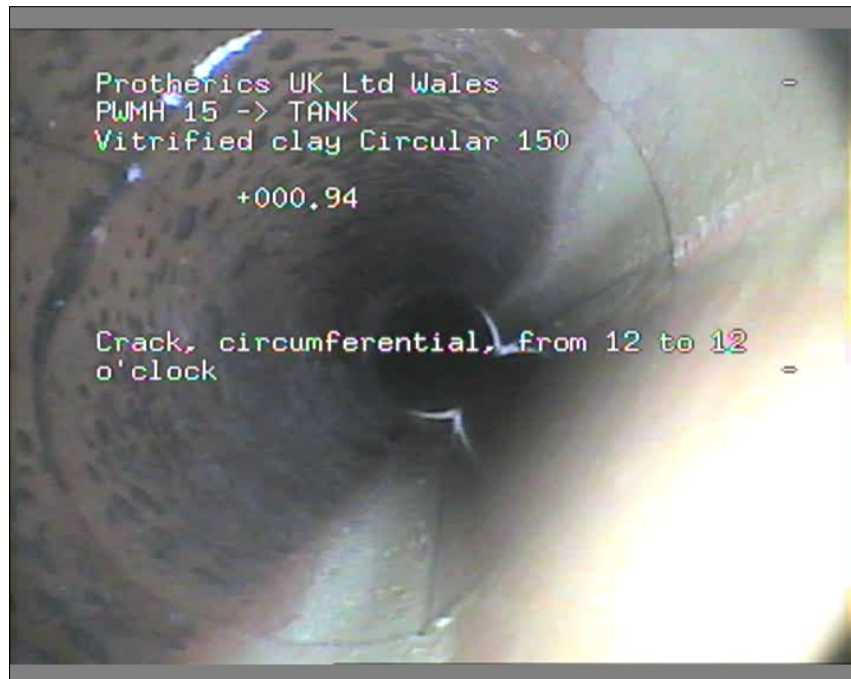


Photo: 106_106_683_A.JPG
 0.94m, Crack, circumferential, from 12 to 12 o'clock

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 102	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 15 (U/S) PWMH 16	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 16 1.46 PWMH 15 1.94
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 19.13 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:165 Position
Depth: 1.94

Observation

Grade

PWMH 15

0.00

Start node type, manhole, reference number :
PWMH 15

0

0.00

Water level, 5% of the vertical dimension

0



19.12

Water level, 5% of the vertical dimension

0

PWMH 16

19.13

Finish node type, manhole reference number:
PWMH 16

0

Depth: 1.46

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 103	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

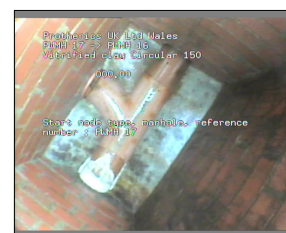
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 17 (D/S) PWMH 16	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 17 1.27 PWMH 16 1.46
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 12.58 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay Epoxy		

Comment :

1:105 Position
Depth: 1.27

Observation

Grade



PWMH 17

0.00

Start node type, manhole, reference number :
PWMH 17

0

0.00

Water level, 5% of the vertical dimension

0

0 m

11.46

Line deviates left

0

11.96

Line deviates right

0

12.58

Water level, 5% of the vertical dimension

0

PWMH 16

12.58

Finish node type, manhole reference number:
PWMH 16

0

Depth: 1.46

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 103	PLR Suffix : X
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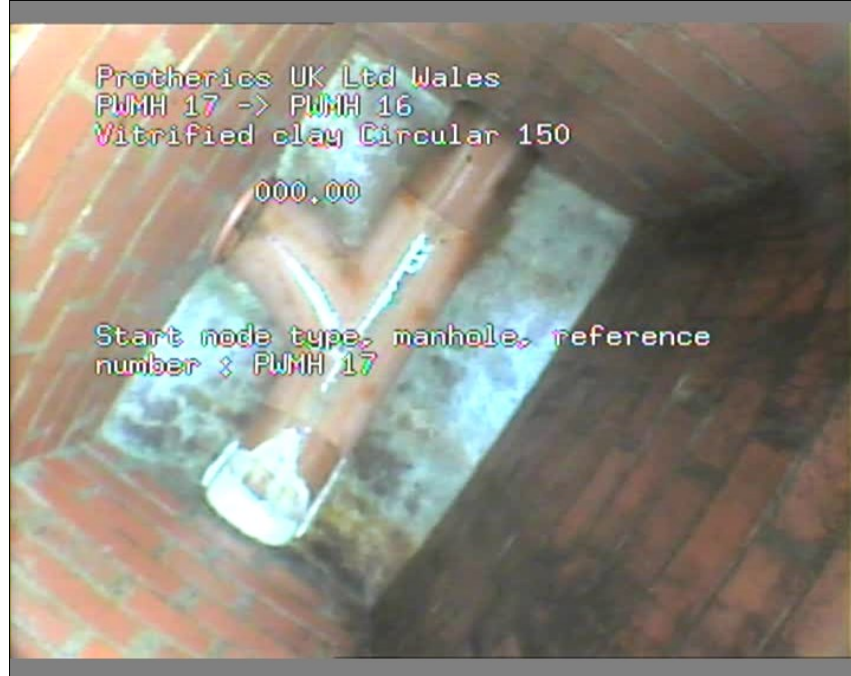


Photo: 108_108_691_A.JPG

0m, Start node type, manhole, reference number : PVMH 17

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 104	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

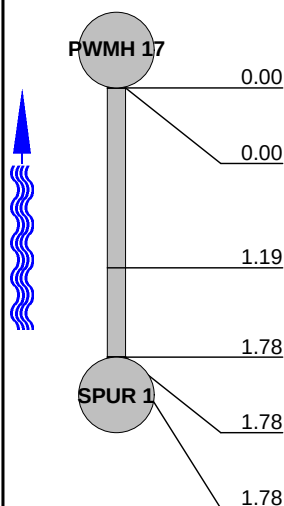
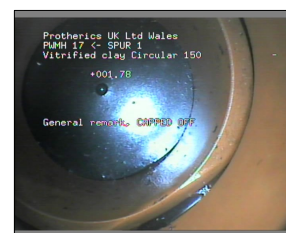
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 17 (U/S) SPUR 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 1 1.24 PWMH 17 1.27
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 1.78 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:50 Position
Depth: 1.27

Observation

Grade



Start node type, manhole, reference number :
PWMH 17

0

Water level, 5% of the vertical dimension

0

Line deviates down

0

General remark Remarks: CAPPED OFF

0

Water level, 5% of the vertical dimension

0

Finish node type, other special chamber
reference number: SPUR 1 Remarks: CAPPED
OFF PIPE

0

Depth: 1.24

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 104	PLR Suffix : X
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Photo: 109_109_700_A.JPG
 1.78m, General remark

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 105	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

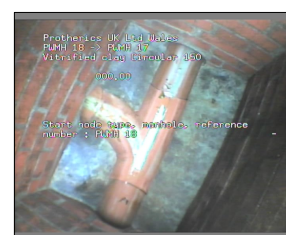
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 18 (D/S) PWMH 17	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 18 0.92 PWMH 17 1.27
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 6.53 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:60 Position
Depth: 0.92

Observation

Grade



PWMH 18

0.00

Start node type, manhole, reference number :
PWMH 18

0

0.00

Water level, 0% of the vertical dimension

0

0 m

6.08

Line deviates right

0

6.53

Water level, 5% of the vertical dimension

0

PWMH 17

6.53

Finish node type, inspection chamber reference
number: PWMH 17

0

Depth: 1.27

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 105	PLR Suffix : X
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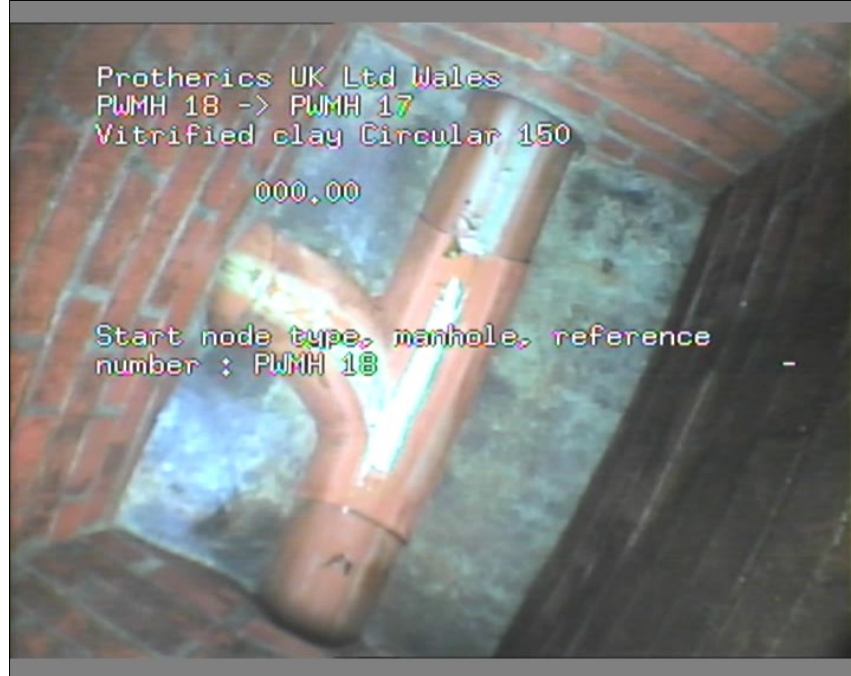


Photo: 110_110_703_A.JPG

0m, Start node type, manhole, reference number : PVMH 18

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 106	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 18 (U/S) SPUR 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 1 0.9 PWMH 18 0.92
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 11.57 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:105 Position
Depth: 0.92

Observation

Grade



PWMH 18	0.00	Start node type, manhole, reference number : PWMH 18	0
	0.00	Water level, 0% of the vertical dimension	0
	0.59	Line deviates up	0
	1.91	Junction, at 1 o'clock, diameter 100mm	0
	2.43	Sealing ring intruding, from 3 to 5 o'clock	1
	2.67	Junction, at 9 o'clock, diameter 100mm	0
	4.55	Junction, at 2 o'clock, diameter 100mm	0
	4.92	Junction, at 9 o'clock, diameter 100mm	0
	8.84	Junction, at 2 o'clock, diameter 100mm	0
	9.76	Junction, at 2 o'clock, diameter 100mm	0
	11.57	Water level, 0% of the vertical dimension	0
SPUR 1	11.57	Finish node type, inspection chamber reference number: INTERNAL PWMH	0

Depth: 0.9

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	5	0.43	5	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 106	PLR Suffix : X
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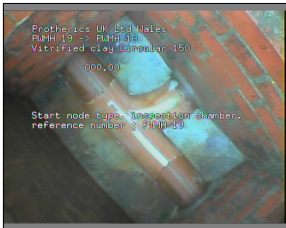
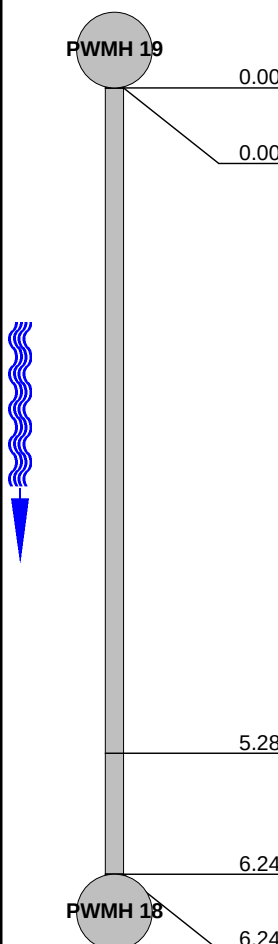
Photo: 111_111_712_A.JPG
 2.43m, Sealing ring intruding, from 3 to 5 o'clock

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 107	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 19 (D/S) PWMH 18	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 19 0.78 PWMH 18 0.92
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 6.24 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:60	Position	Observation	Grade						
Depth: 0.78									
	0.00	Start node type, inspection chamber, reference number : PWMH 19	0						
	0.00	Water level, 5% of the vertical dimension	0						
	5.28	Line deviates left	0						
	6.24	Water level, 5% of the vertical dimension	0						
	6.24	Finish node type, inspection chamber reference number: PWMH 18	0						
Depth: 0.92									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 107	PLR Suffix : X
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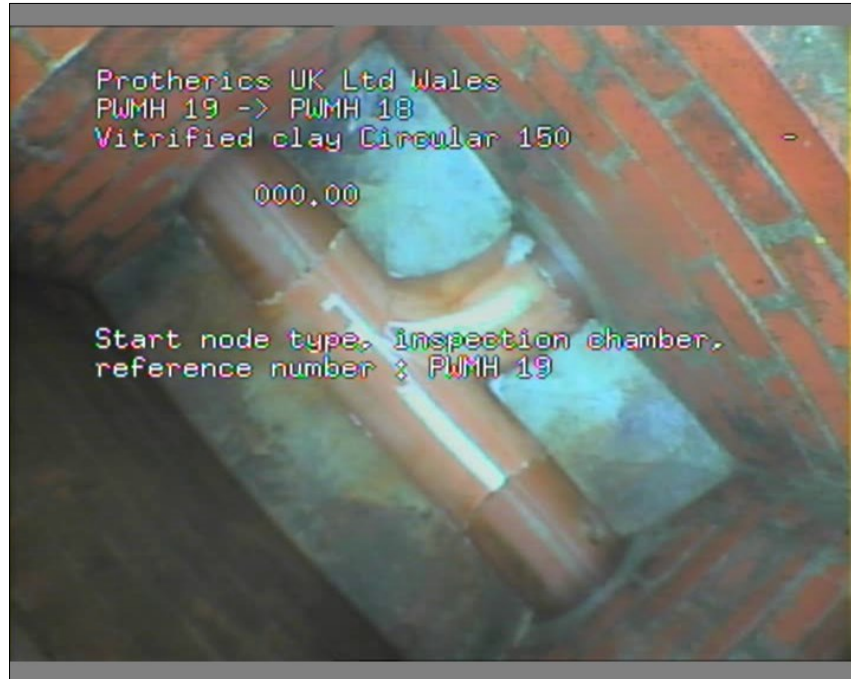


Photo: 112_112_720_A.JPG

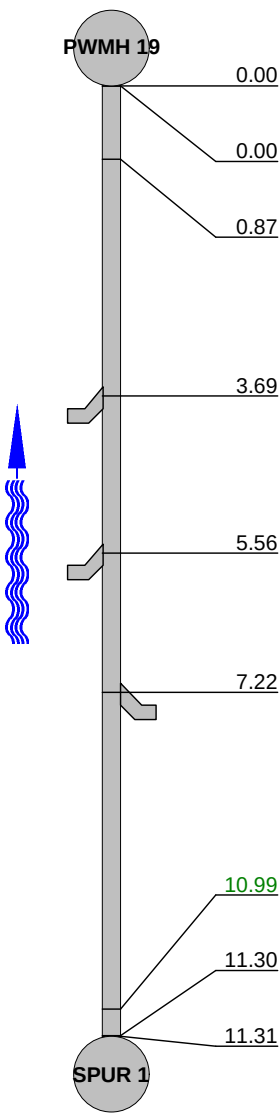
0m, Start node type, inspection chamber, reference number : PVMH 19

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 108	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 19 (U/S) SPUR 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 1 0.76 PWMH 19 0.78
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 11.31 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay		

Comment :

1:90 Depth: 0.78	Position	Observation	Grade
	PWMH 19	Start node type, inspection chamber, reference number : PWMH 19	0
	0.00	Water level, 0% of the vertical dimension	0
	0.00		
	0.87	Line deviates down	0
	3.69	Junction, at 3 o'clock, diameter 100mm	0
	5.56	Junction, at 3 o'clock, diameter 100mm	0
	7.22	Junction, at 10 o'clock, diameter 150mm	0
	10.99	Joint displaced, medium	1
	11.30	Water level, 5% of the vertical dimension	0
	11.31	Finish node type, inspection chamber reference number: INTERNAL PWMH	0
SPUR 1			
Depth: 0.76			



10.99 m

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 108	PLR Suffix : X
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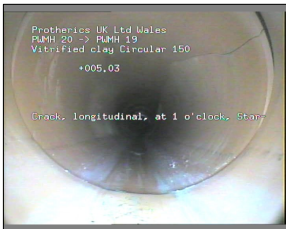
Photo: 113_113_733_A.JPG
 10.99m, Joint displaced, medium

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 109	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 20 (D/S) PWMH 19	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 20 0.56 PWMH 19 0.78
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 10.70 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:90	Position	Observation	Grade						
Depth: 0.56									
	PWMH 20	0.00	Start node type, inspection chamber, reference number : PWMH 20	0					
		0.00	Water level, 0% of the vertical dimension	0					
		5.03	S01 Crack, longitudinal, at 1 o'clock, Start	2					
		6.12	F01 Crack, longitudinal, at 1 o'clock, End	2					
		6.12	Crack, circumferential, from 1 to 8 o'clock	2					
		6.30	Fracture, circumferential, from 3 to 9 o'clock	3					
		6.36	Hole in drain/sewer, at 12 o'clock	4					
		6.72	S02 Crack, longitudinal at joint, at 1 o'clock, Start	2					
		7.38	Fracture, circumferential, from 8 to 1 o'clock	3					
		7.38	F02 Crack, longitudinal at joint, at 1 o'clock, End	2					
		8.07	S03 Crack, longitudinal, at 2 o'clock, Start	2					
		8.54	F03 Crack, longitudinal, at 2 o'clock, End	2					
		10.70	Water level, 5% of the vertical dimension	0					
	PWMH 19	10.70	Finish node type, inspection chamber reference number: PWMH 19	0					
Depth: 0.78									
									
0 m									
									
5.03 m									
									
6.12 m									
									
6.3 m									
									
6.36 m									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
6	125	17.38	186	4	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 109	PLR Suffix : X
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Photo: 114_114_736_A.JPG

0m, Start node type, inspection chamber, reference number : PVMH 20

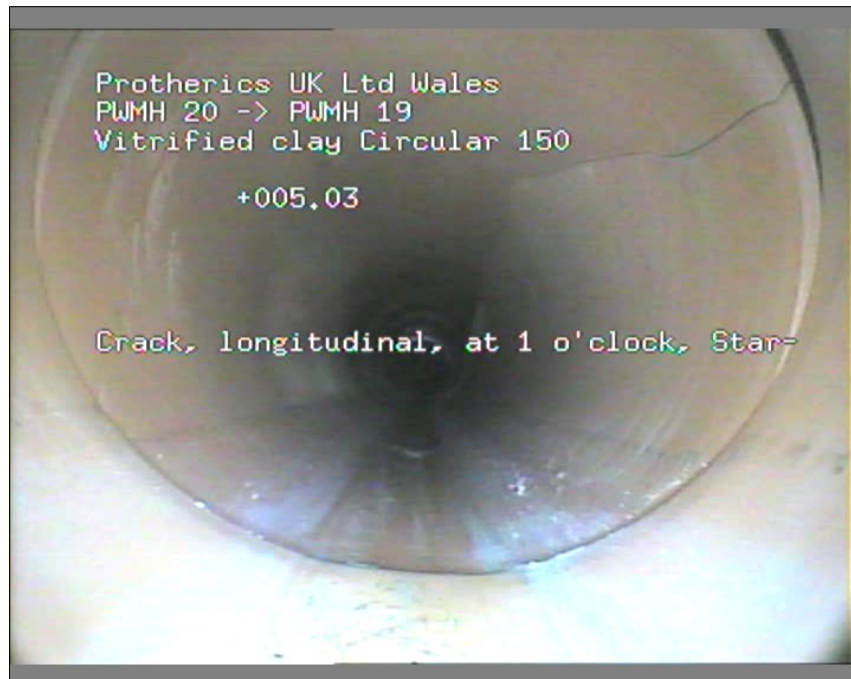


Photo: 114_114_738_A.JPG

5.03m, Crack, longitudinal, at 1 o'clock, Start

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 109	PLR Suffix : X
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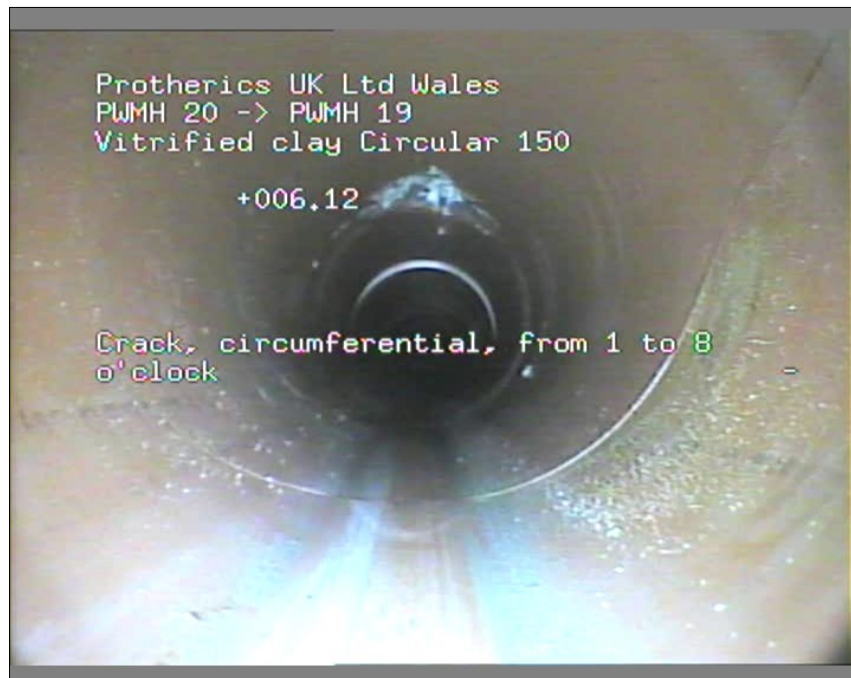


Photo: 114_114_740_A.JPG
 6.12m, Crack, circumferential, from 1 to 8 o'clock

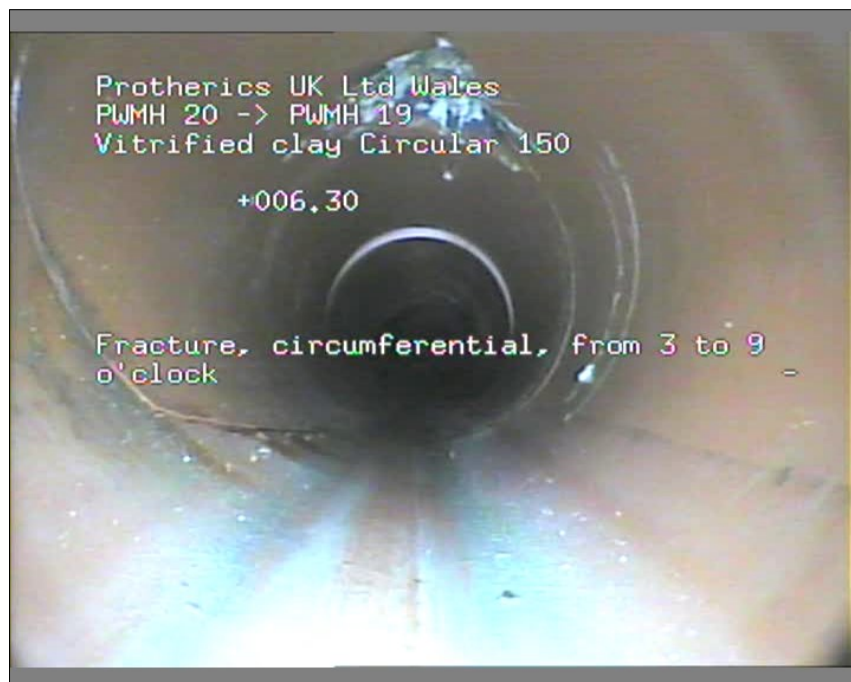


Photo: 114_114_741_A.JPG
 6.3m, Fracture, circumferential, from 3 to 9 o'clock

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 109	PLR Suffix : X
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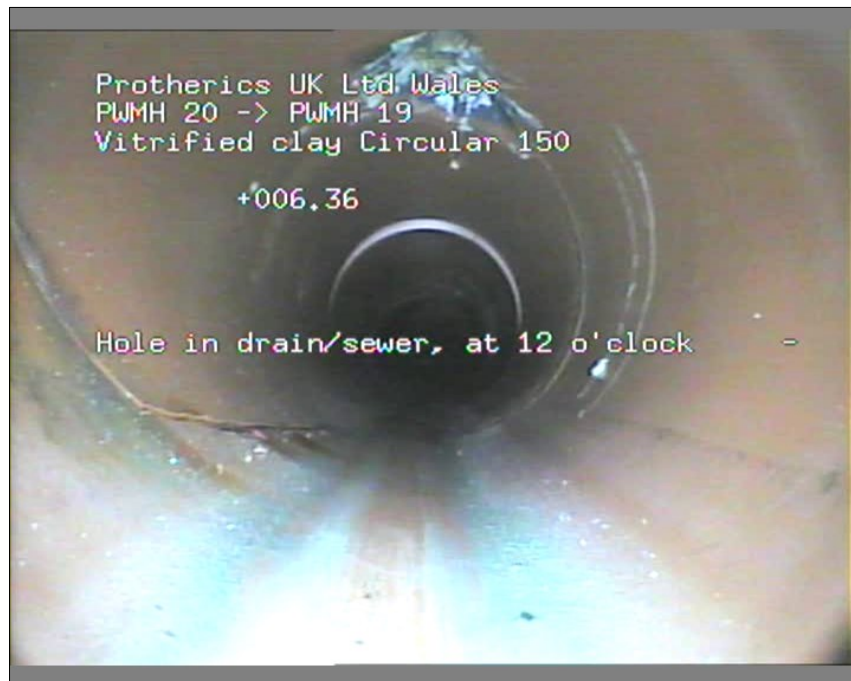


Photo: 114_114_742_A.JPG
 6.36m, Hole in drain/sewer, at 12 o'clock

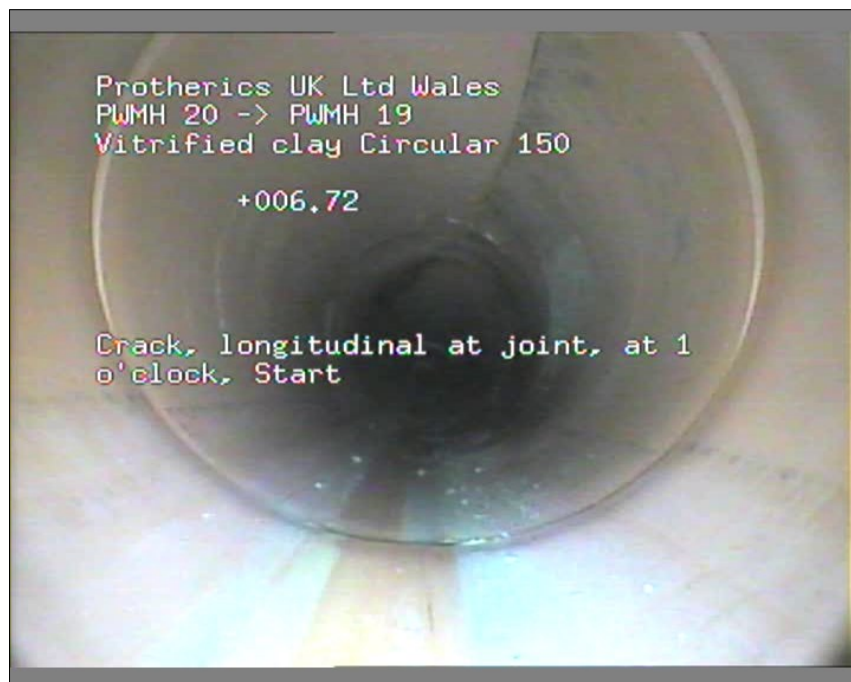


Photo: 114_114_743_A.JPG
 6.72m, Crack, longitudinal at joint, at 1 o'clock, Start

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 109	PLR Suffix : X
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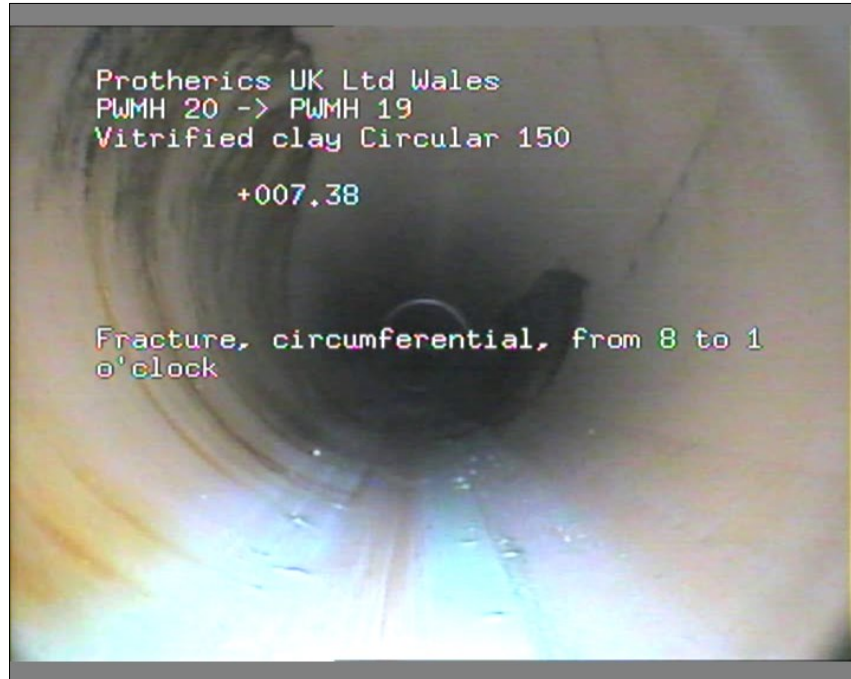


Photo: 114_114_744_A.JPG
 7.38m, Fracture, circumferential, from 8 to 1 o'clock

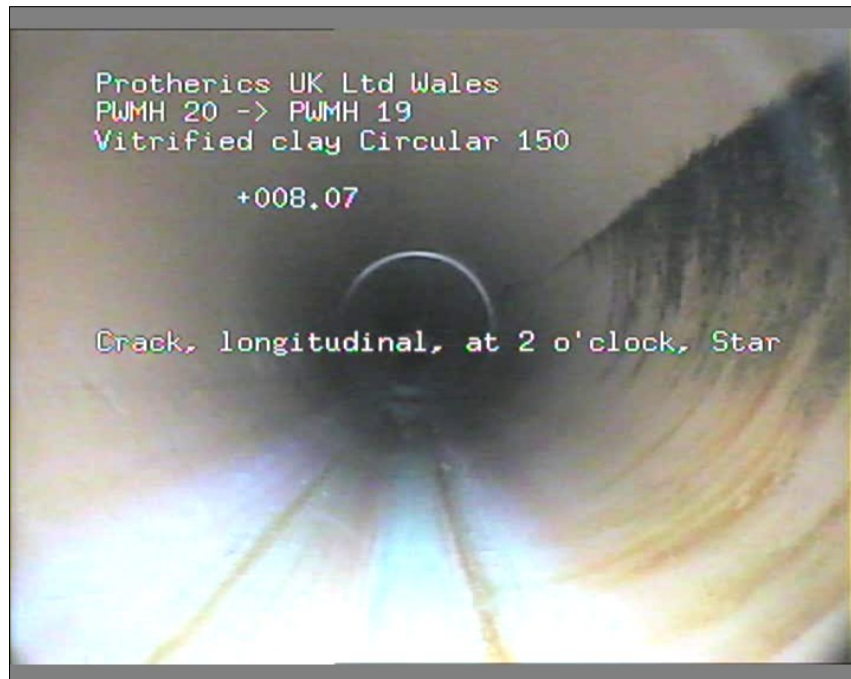


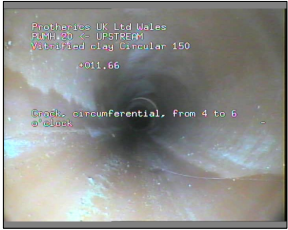
Photo: 114_114_746_A.JPG
 8.07m, Crack, longitudinal, at 2 o'clock, Star

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 110	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place :	Protherics UK Ltd	Location details:	U/S MH :	UPSTREAM
Road :	Wales	Catchment:	U/S Depth :	
Location	Property with buildings	Pipe Shape : Circular	D/S MH :	PWMH 20
Inspection	PWMH 20 (U/S) UPSTREAM	Pipe Length	D/S Depth :	0.56
Use:	Trade effluent	Pipe Width :	150 mm	
Year laid :		Pipe Diameter :	150 mm	
Purpose :	Sample survey to determine asset condition	Pipe material :	Vitrified clay	
Total length :	19.16 m	Lining :		

Comment :

1:165	Position	Observation	Grade						
Depth: 0.56									
	0.00	Start node type, inspection chamber, reference number : PWMH 20	0						
	0.00	Water level, 5% of the vertical dimension	0						
	4.33	Junction, at 3 o'clock, diameter 100mm	0						
	11.66	Crack, circumferential, from 4 to 6 o'clock	2						
	12.93	Junction, at 3 o'clock, diameter 100mm	0						
	18.62	Line deviates up	0						
	19.16	Water level, 0% of the vertical dimension	0						
	19.16	Finish node type, inspection chamber reference number: INTERNAL PWMH	0						
									
11.66 m									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	0.52	10	2	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 110	PLR Suffix : X
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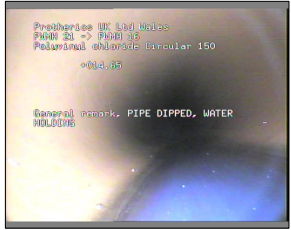
Photo: 115_115_753_A.JPG
 11.66m, Crack, circumferential, from 4 to 6 o'clock

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 111	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 21 (D/S) PWMH 16	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 21 0.58 PWMH 16 1.46
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 19.08 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride 		

Comment :

1:165 Position Depth: 0.58	Observation	Grade	
PWMH 21			
0.00	Start node type, catchpit, reference number : PWMH 21	0	
0.00	Water level, 5% of the vertical dimension	0	0 m
6.09	Line deviates left Remarks: 45 DEGREES	0	
14.65	General remark Remarks: PIPE DIPPED, WATER HOLDING	0	14.65 m
18.96	Line deviates right	0	
19.04	Material changes, vitrified clay	0	
19.08	Water level, 5% of the vertical dimension	0	
PWMH 16	Finish node type, manhole reference number: PWMH 16	0	
19.08			
Depth: 1.46			
STR no def	STR peak	STR mean	STR total
0	0	0	0
STR grade	SER no def	SER peak	SER mean
1	0	0	0
SER total	SER grade		
0	1		

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 111	PLR Suffix : X
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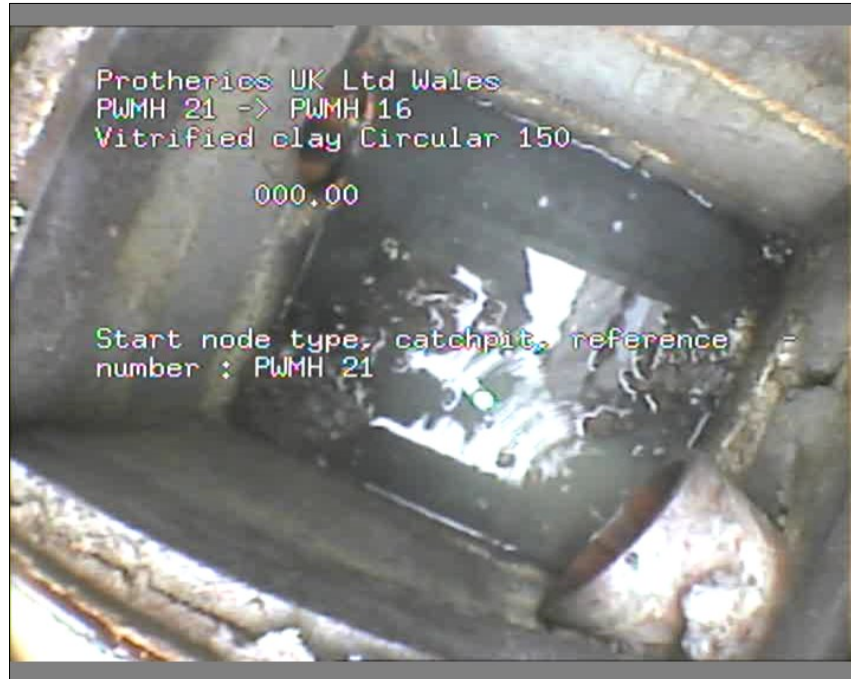


Photo: 116_116_758_A.JPG
 0m, Start node type, catchpit, reference number : PWMH 21

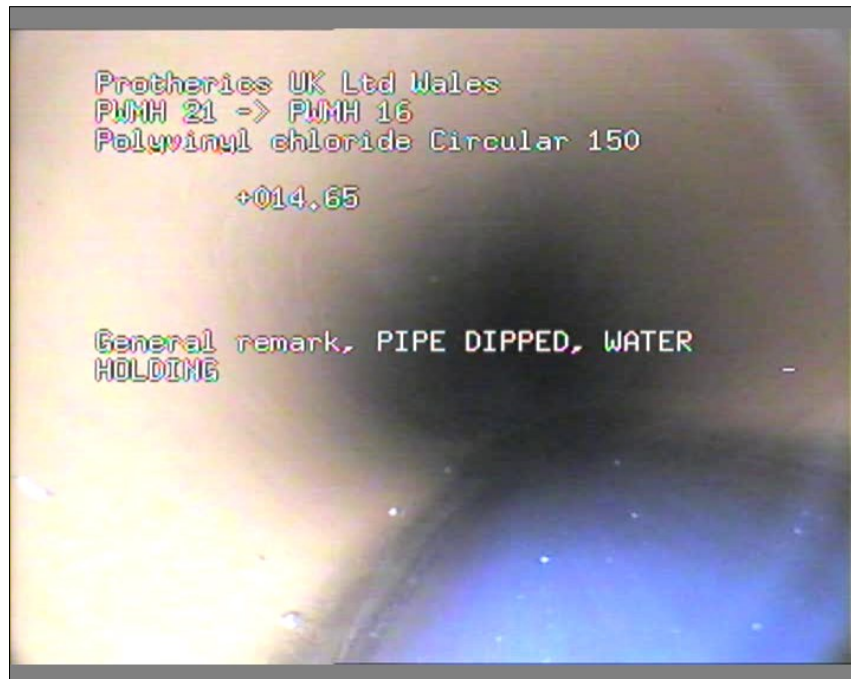


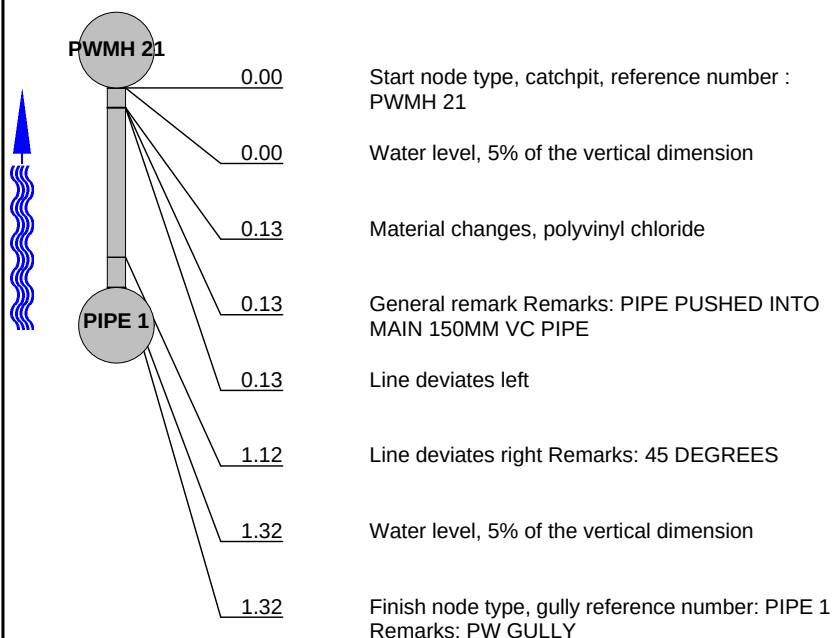
Photo: 116_116_761_A.JPG
 14.65m, General remark

Inspection report

Date : 27/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 112	PLR SUFFIX: X
Weather rain	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 21 (U/S) PIPE 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 1 0.37 PWMH 21 0.58
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 1.32 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay		

Comment :

1:50 Position
Depth: 0.58
Observation
Grade

Depth: 0.37

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 27/09/2017	Section number : 112	PLR Suffix : X
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Photo: 117_117_769_A.JPG
 0.13m, General remark

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 113	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

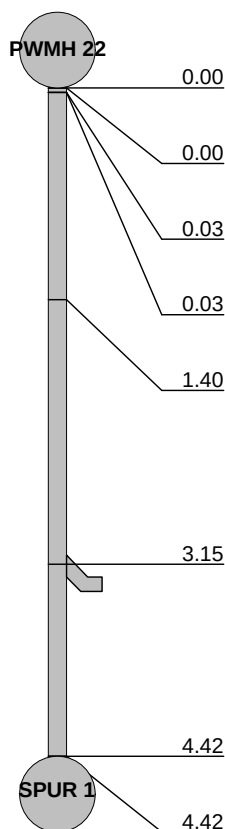
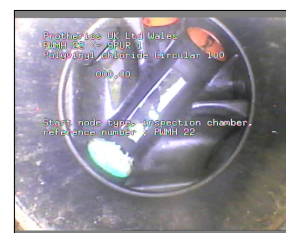
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 22 (U/S) SPUR 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 1 0.57 PWMH 22 0.64
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 4.42 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:50 Position
Depth: 0.64

Observation

Grade



Start node type, inspection chamber, reference number : PWMH 22

Water level, 10% of the vertical dimension

Material changes, vitrified clay

Line deviates left Remarks: 45 DEGREES

Line deviates left Remarks: 45 DEGREES

Junction, at 9 o'clock, diameter 100mm

Water level, 10% of the vertical dimension

Finish node type, gully reference number: SPUR 1 Remarks: PW GULLY

0

0

0

0

0

0

0

0

Depth: 0.57

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 28/09/2017	Section number : 113	PLR Suffix : X
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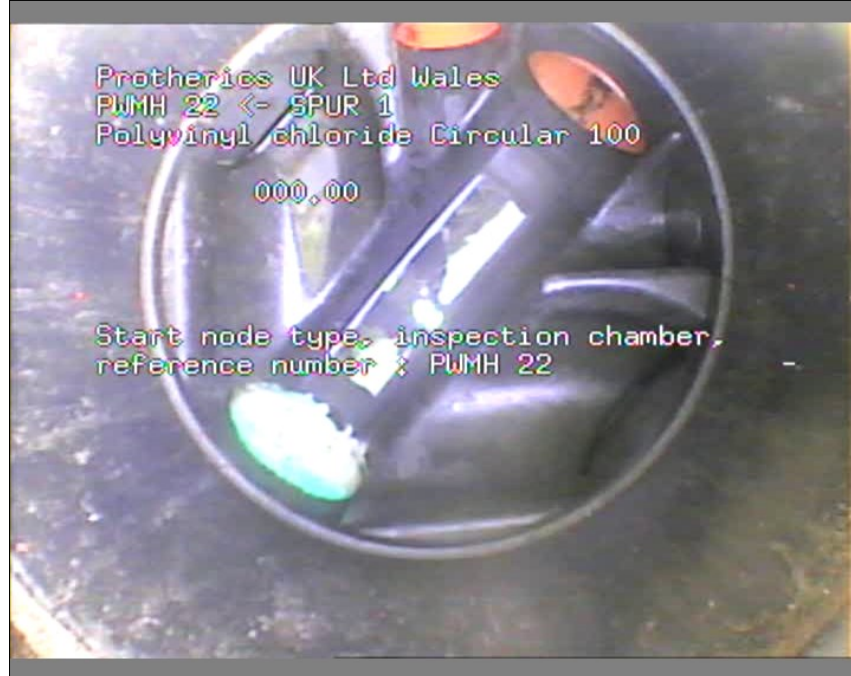


Photo: 118_118_774_A.JPG

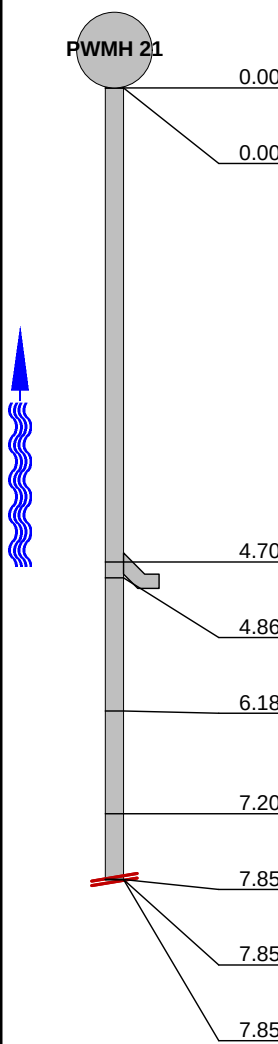
0m, Start node type, inspection chamber, reference number : PVMH 22

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 114	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 21 (U/S) UPSTREAM	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	UPSTREAM PWMH 21 0.64
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 7.85 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride		

Comment :

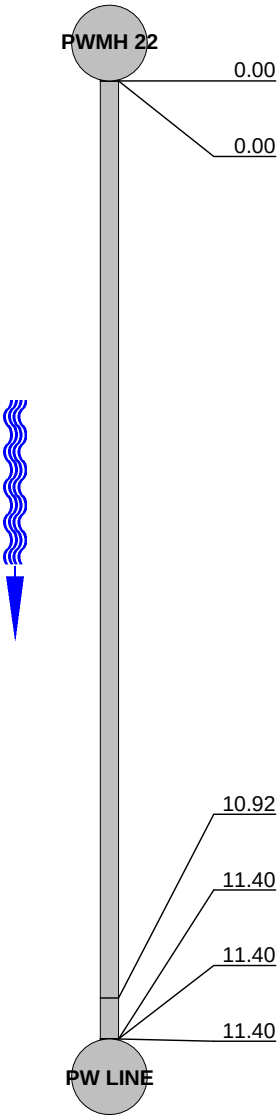
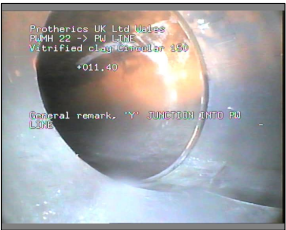
1:75 Depth: 0.64	Position	Observation	Grade						
	PWMH 21								
	0.00	Start node type, inspection chamber, reference number : PWMH 21	0						
	0.00	Water level, 5% of the vertical dimension	0						
	4.70	Junction, at 10 o'clock, diameter 150mm	0						
	4.86	Dimension changes, 100mm high, 100mm wide	0						
	6.18	Line deviates left Remarks: 45 DEGREES	0						
	7.20	Line deviates right Remarks: 45 DEGREES	0						
	7.85	General remark Remarks: UNABLE TO PASS DOUBLE BEND	0						
	7.85	General remark Remarks: LINE COMES FROM INTERNAL PWMH	0						
7.85	Survey abandoned Remarks: AT SHARP DOUBLE BEND	0							
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 115	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 22 (D/S) PW LINE	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 22 0.64 PW LINE
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 11.40 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride Epoxy		

Comment :

1:90	Position	Observation	Grade						
Depth: 0.64									
	PWMH 22	Start node type, inspection chamber, reference number : PWMH 22	0	 11.4 m					
	0.00								
	0.00	Water level, 5% of the vertical dimension	0						
	10.92	Lining changes to other lining type, polyvinyl chloride Remarks: END OF LINER REPAIR	0						
	11.40	General remark Remarks: 'Y' JUNCTION INTO PW LINE	0						
	11.40	Water level, 5% of the vertical dimension	0						
	11.40	Finish node type, other special chamber reference number: PW LINE Remarks: JUNCTION	0						
	PW LINE								
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 28/09/2017	Section number : 115	PLR Suffix : X
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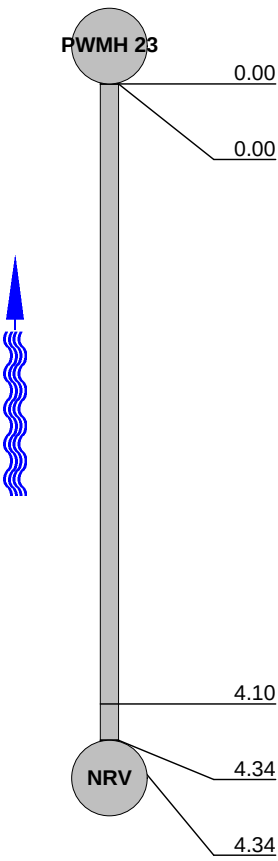
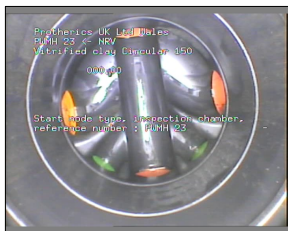
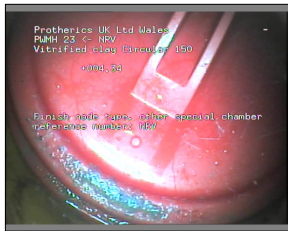
Photo: 120_120_796_A.JPG
 11.4m, General remark

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 116	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 23 (U/S) NRV	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	NRV PWMH 23 0.8
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 4.34 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:50	Position	Observation	Grade						
Depth: 0.8									
	PWMH 23								
	0.00	Start node type, inspection chamber, reference number : PWMH 23	0						
	0.00	Water level, 5% of the vertical dimension	0	0 m					
									
				4.34 m					
	4.10	Material changes, polyvinyl chloride	0						
	NRV								
	4.34	Water level, 5% of the vertical dimension	0						
	4.34	Finish node type, other special chamber reference number: NRV	0						
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 28/09/2017	Section number : 116	PLR Suffix : X
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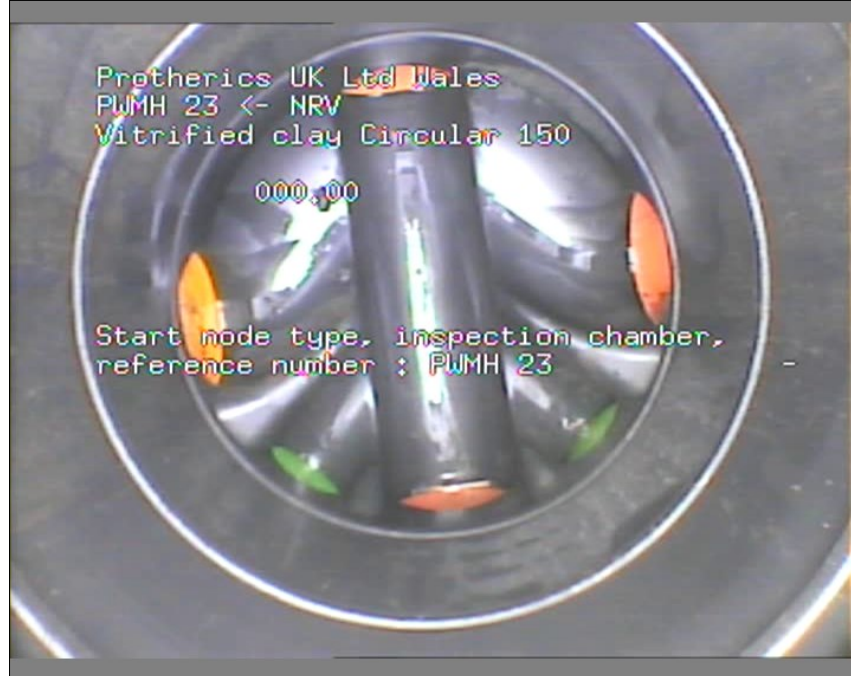


Photo: 121_121_799_A.JPG

0m, Start node type, inspection chamber, reference number : PUMH 23

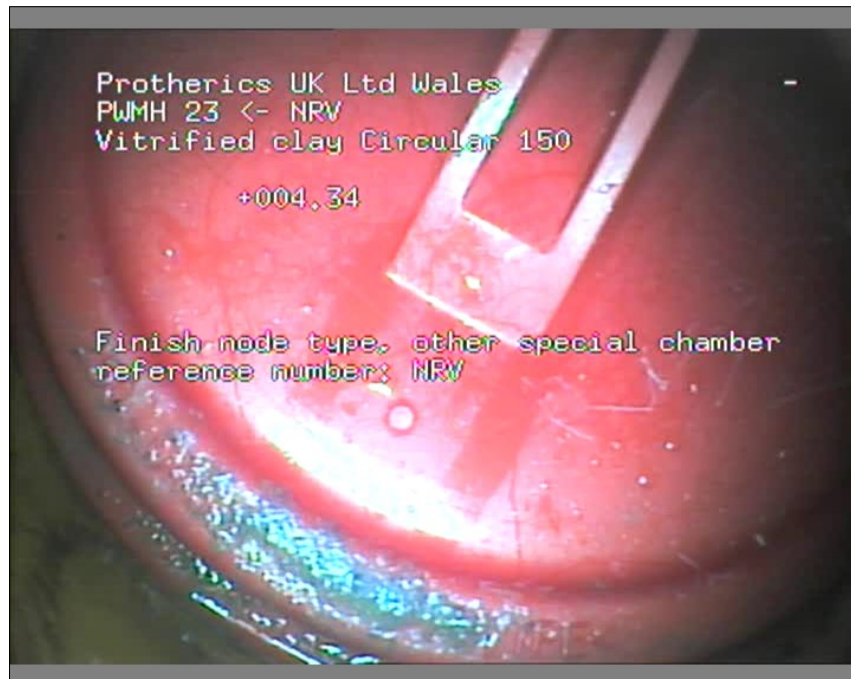


Photo: 121_121_803_A.JPG

4.34m, Finish node type, other special chamber reference number: NRV

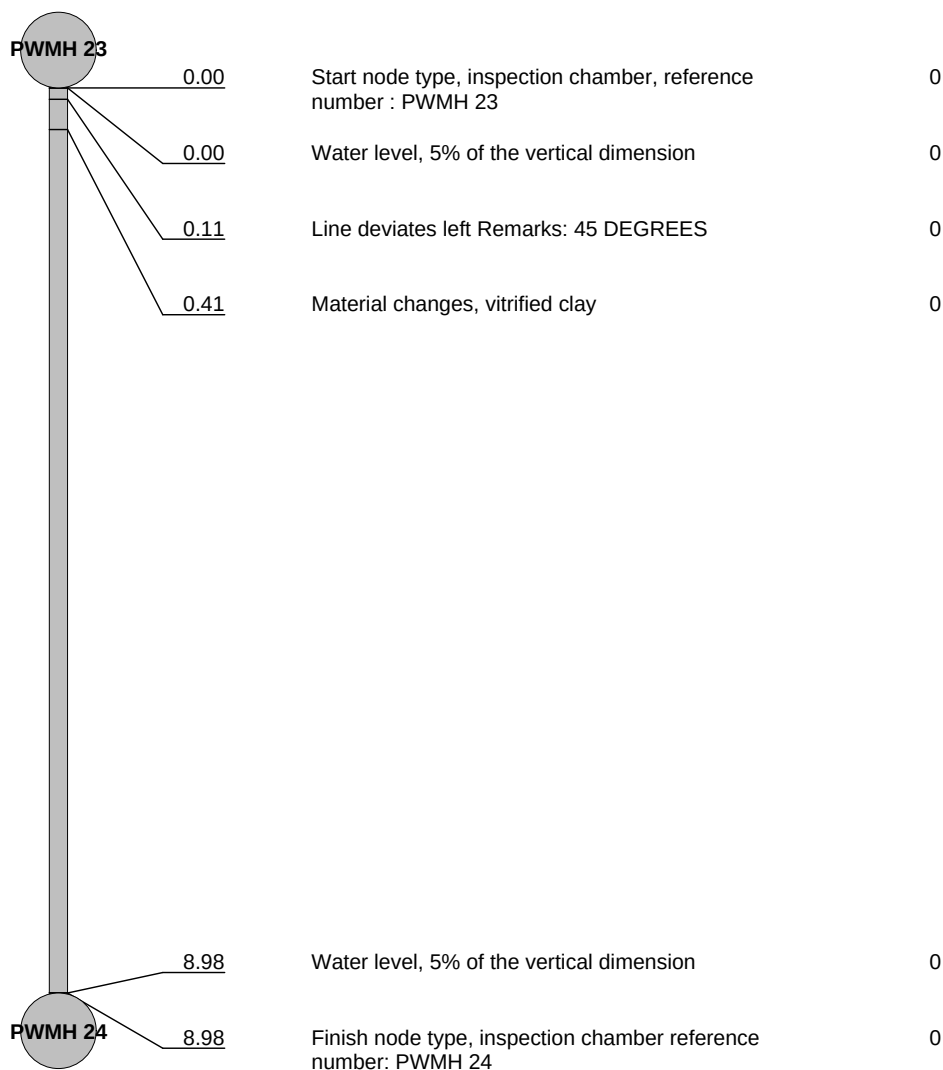
Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 117	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 23 (D/S) PWMH 24	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 23 0.8 PWMH 24 0.52
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 8.98 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Polyvinyl chloride 		

Comment :

1:75 Position Observation Grade
Depth: 0.8



Depth: 0.52

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 118	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

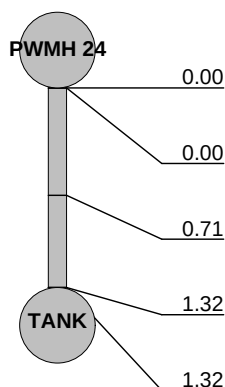
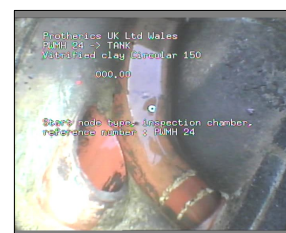
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 24 (D/S) TANK	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 24 0.52 TANK
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 1.32 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay		

Comment :

1:50 Position
Depth: 0.52

Observation

Grade



Start node type, inspection chamber, reference number : PWMH 24

0

Water level, 5% of the vertical dimension

0

Material changes, polyvinyl chloride

0

Water level, 0% of the vertical dimension

0

Finish node type, other special chamber reference number: TANK

0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 28/09/2017	Section number : 118	PLR Suffix : X
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Photo: 123_123_810_A.JPG

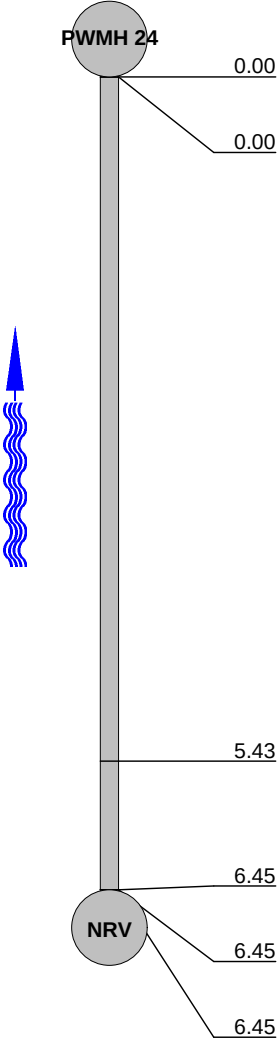
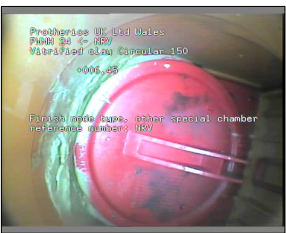
0m, Start node type, inspection chamber, reference number : PVMH 24

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 119	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 24 (U/S) NRV	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	NRV PWMH 24 0.52
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 6.45 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:60	Position	Observation	Grade						
Depth: 0.52									
	0.00	Start node type, inspection chamber, reference number : PWMH 24	0	 6.45 m					
	0.00	Water level, 5% of the vertical dimension	0						
	5.43	Line deviates left	0						
	6.45	Material changes, polyvinyl chloride	0						
NRV	6.45	Water level, 5% of the vertical dimension	0						
	6.45	Finish node type, other special chamber reference number: NRV	0						
	6.45								
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 28/09/2017	Section number : 119	PLR Suffix : X
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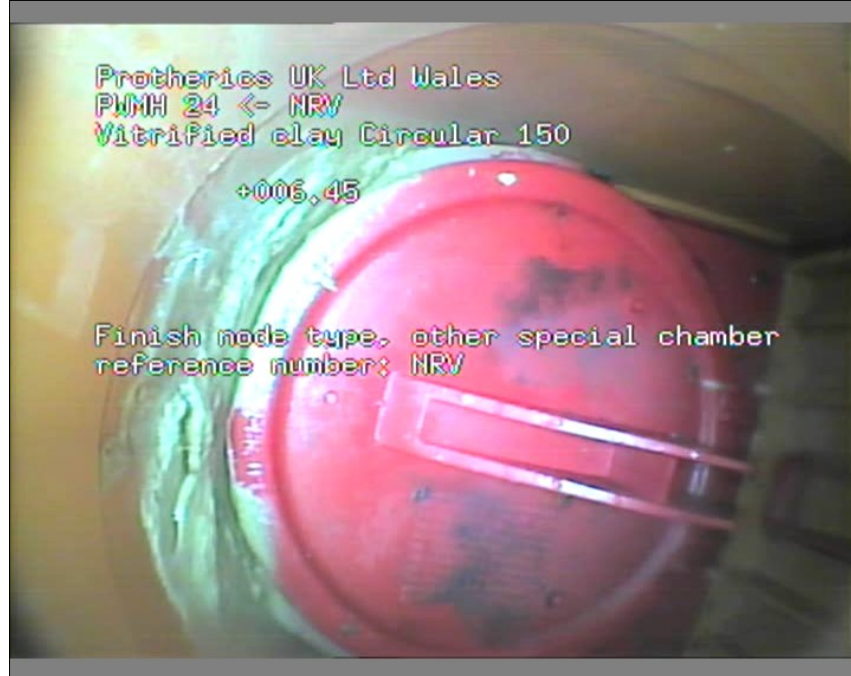


Photo: 124_124_820_A.JPG

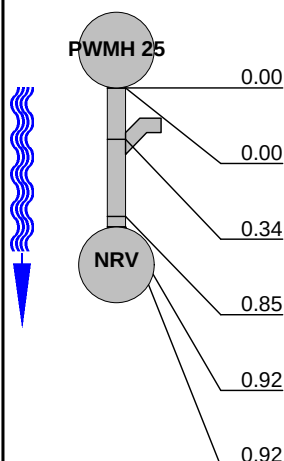
6.45m, Finish node type, other special chamber reference number: NRW

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 120	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 25 (D/S) NRV	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 25 0.58 NRV
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 0.92 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay		

Comment :

1:50 Position
Depth: 0.58
Observation
Grade


Start node type, inspection chamber, reference number : PWMH 25

Water level, 5% of the vertical dimension

Junction, at 9 o'clock, diameter 150mm

Material changes, polyvinyl chloride

Water level, 10% of the vertical dimension

Finish node type, other special chamber reference number: NRV

0

0

0

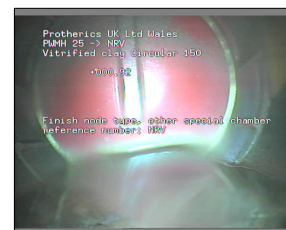
0

0

0



0 m



0.92 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 28/09/2017	Section number : 120	PLR Suffix : X
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Photo: 125_125_821_A.JPG

0m, Start node type, inspection chamber, reference number : PWMH 25

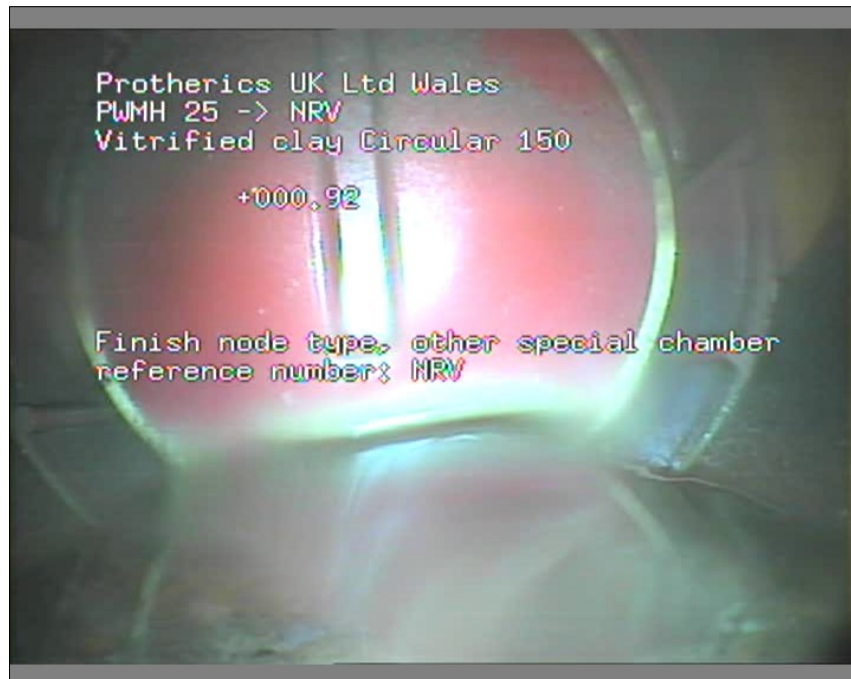


Photo: 125_125_826_A.JPG

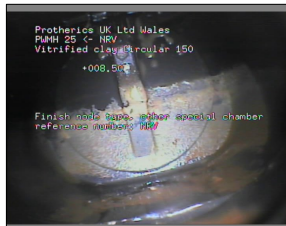
0.92m, Finish node type, other special chamber reference number: NRV

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 121	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 25 (U/S) NRV	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	NRV PWMH 25 0.58
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 8.50 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay Epoxy		

Comment :

1:75	Position	Observation	Grade						
Depth: 0.58									
	PWMH 25								
	0.00	Start node type, inspection chamber, reference number : PWMH 25	0						
	0.00	Water level, 5% of the vertical dimension	0	7.87 m					
	0.82	Line deviates left	0						
				8.5 m					
	7.40	Lining changes to other lining type, vitrified clay Remarks: END OF LINER REPAIR	0						
	7.68	Junction, at 9 o'clock, diameter 150mm	0						
	7.87	Open joint, medium	1						
	7.87	Line deviates left	0						
	8.50	Material changes, polyvinyl chloride	0						
	NRV								
	8.50	Water level, 5% of the vertical dimension	0						
	8.50	Finish node type, other special chamber reference number: NRV	0						
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	1	0.12	1	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 28/09/2017	Section number : 121	PLR Suffix : X
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Photo: 126_126_832_A.JPG
 7.87m, Open joint, medium

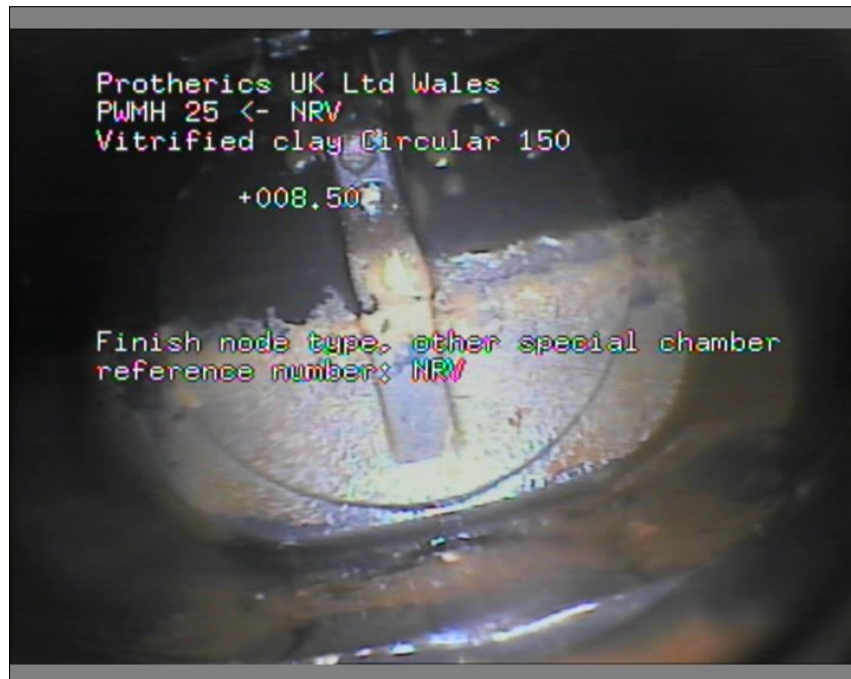
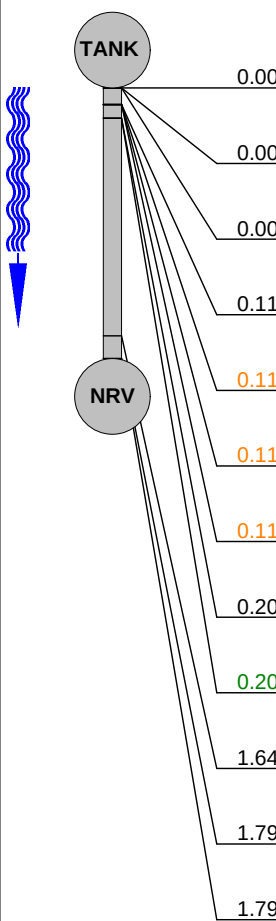
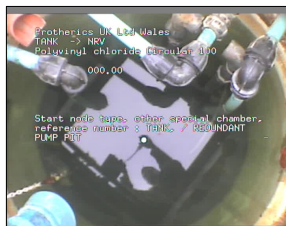
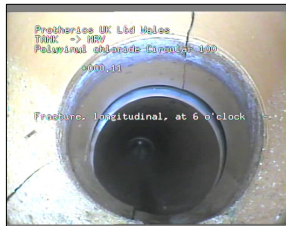
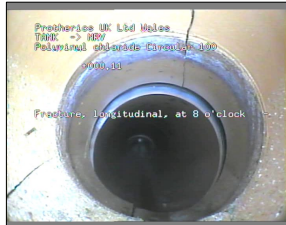
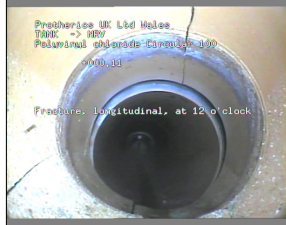
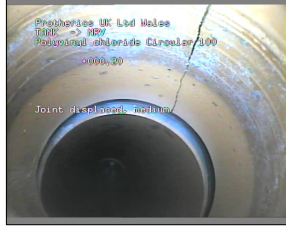


Photo: 126_126_836_A.JPG
 8.5m, Finish node type, other special chamber reference number: NRV

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 122	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place :	Protherics UK Ltd	Location details:	U/S MH :	TANK
Road :	Wales	Catchment:	U/S Depth :	2
Location	Property with buildings	Pipe Shape :	D/S MH :	NRV
Inspection	TANK (D/S) NRV	Pipe Length	D/S Depth :	
Use:	Trade effluent	Pipe Width :	100 mm	
Year laid :		Pipe Diameter :	100 mm	
Purpose :	Sample survey to determine asset condition	Pipe material :	Polyvinyl chloride	
Total length :	1.79 m	Lining :		
Comment :	DEPTH OF OUTGOING PIPE IS 0.90M			

1:50 Depth: 2	Position	Observation	Grade						
	TANK	Start node type, other special chamber, reference number : TANK Remarks: / REDUNDANT PUMP PIT	0						
	0.00	Water level, 5% of the vertical dimension	0	0 m					
	0.00	General remark Remarks: OLD PUMP PIT (PUMPS REMOVED) NOW GRAVITY FED TANK	0						
	0.11	Material changes, vitrified clay	0	0.11 m					
	0.11	Fracture, longitudinal, at 6 o'clock	3						
	0.11	Fracture, longitudinal, at 8 o'clock	3	0.11 m					
	0.11	Fracture, longitudinal, at 12 o'clock	3						
	0.20	Dimension changes, 150mm high, 150mm wide	0	0.11 m					
	0.20	Joint displaced, medium	1						
	1.64	Material changes, polyvinyl chloride	0	0.2 m					
	1.79	Water level, 5% of the vertical dimension	0						
	1.79	Finish node type, other special chamber reference number: NRV	0						
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
3	120	67.04	120	4	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 28/09/2017	Section number : 122	PLR Suffix : X
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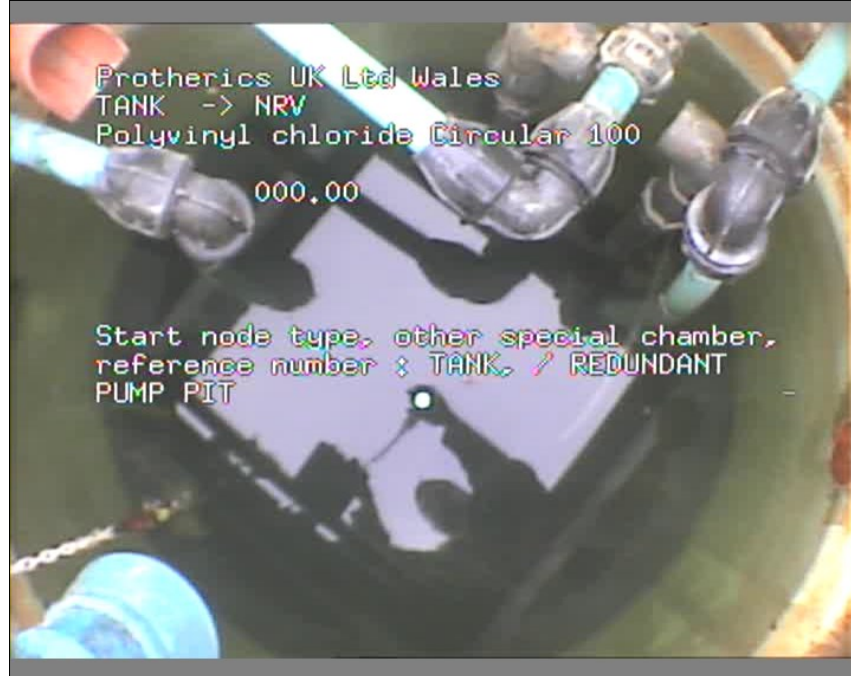


Photo: 127_127_837_A.JPG

0m, Start node type, other special chamber, reference number : TANK

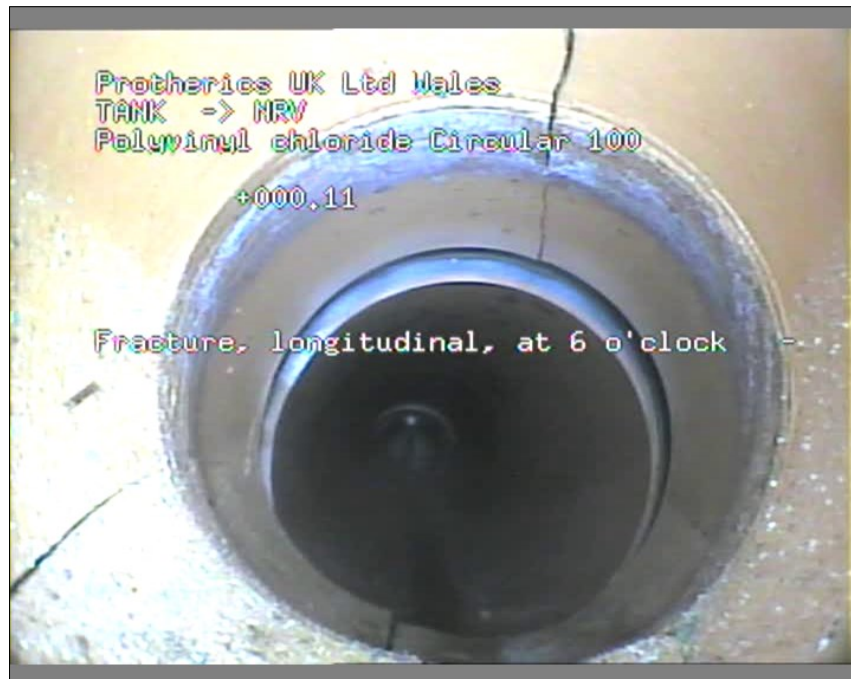


Photo: 127_127_841_A.JPG

0.11m, Fracture, longitudinal, at 6 o'clock

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 28/09/2017	Section number : 122	PLR Suffix : X
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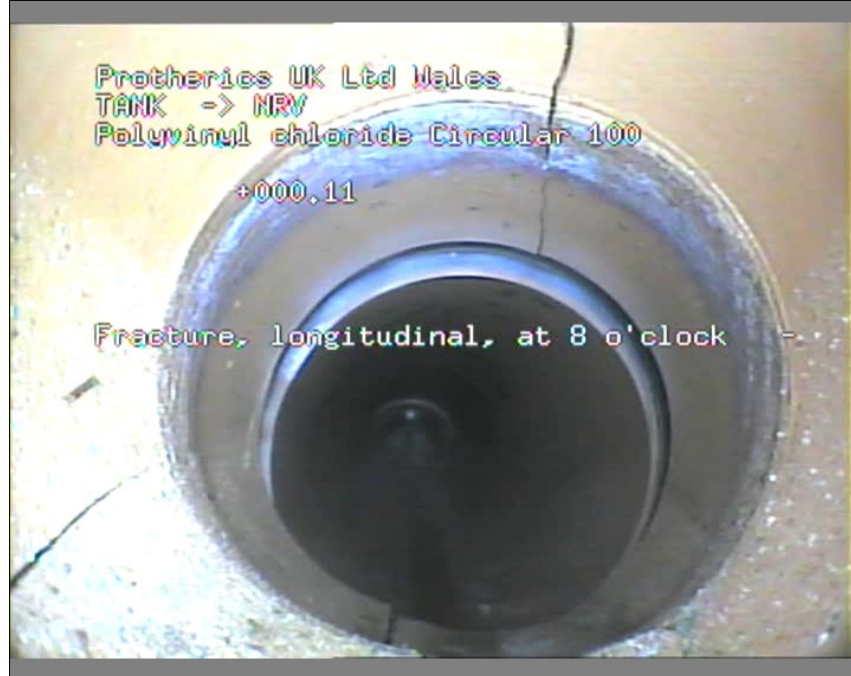


Photo: 127_127_842_A.JPG
 0.11m, Fracture, longitudinal, at 8 o'clock

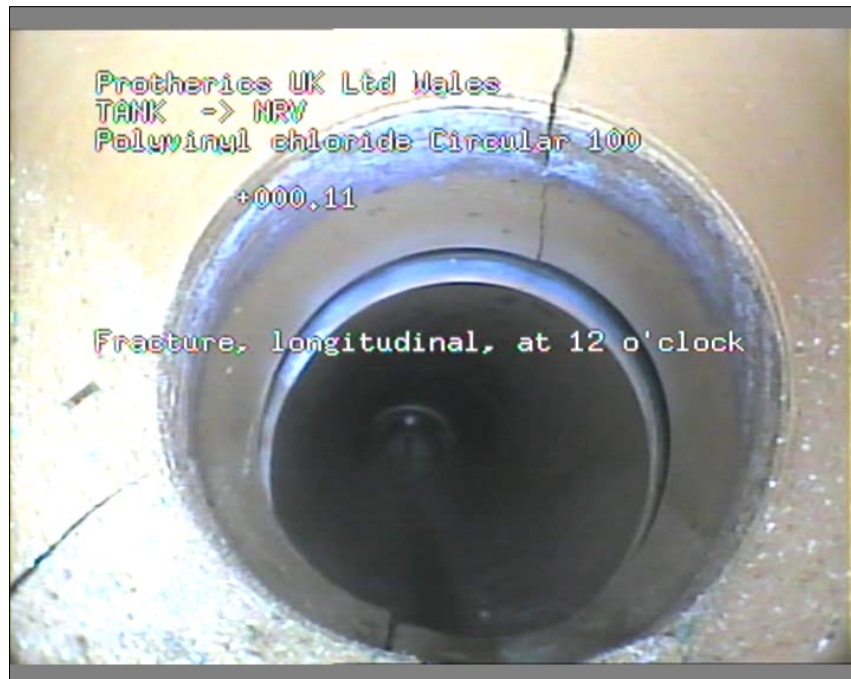


Photo: 127_127_843_A.JPG
 0.11m, Fracture, longitudinal, at 12 o'clock

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 28/09/2017	Section number : 122	PLR Suffix : X
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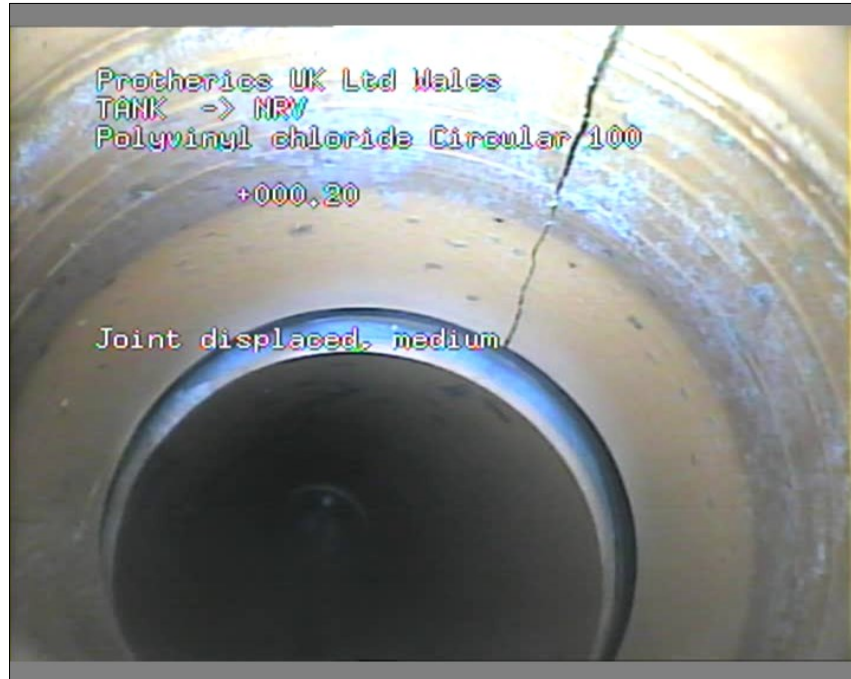


Photo: 127_127_844_A.JPG
 0.2m, Joint displaced, medium

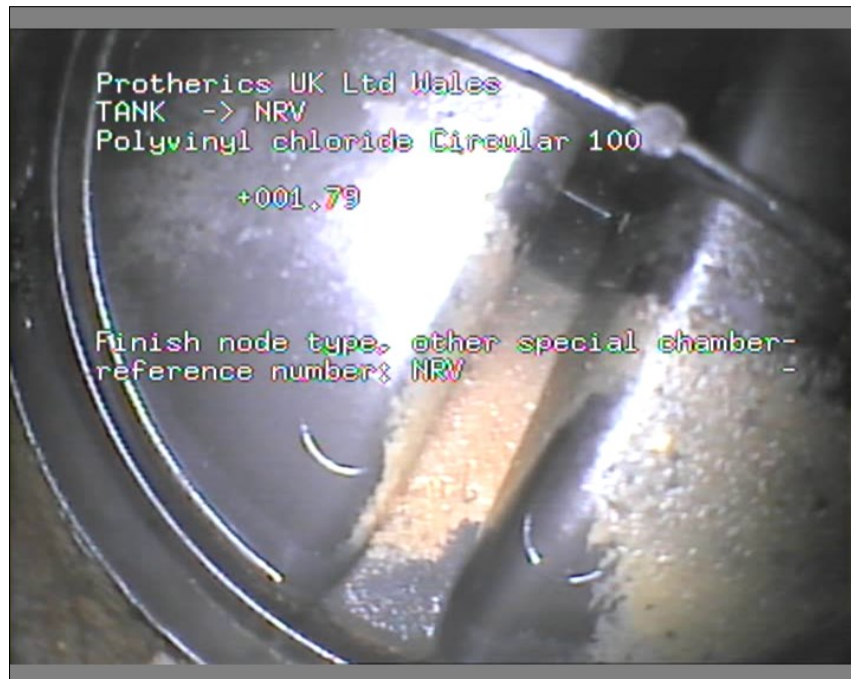


Photo: 127_127_847_A.JPG
 1.79m, Finish node type, other special chamber reference number: NRV

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 123	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings TANK (U/S) NRV	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	NRV TANK 2
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 0.00 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:50

Position

Depth: 2

Observation

Grade

TANK

0.00

0.00

0.00

General remark Remarks: PIPE UNDER WATER DUE TO PUMPS REMOVED

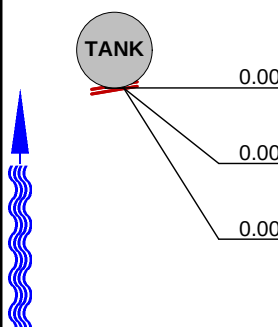
0

General remark Remarks: NOW SET UP AS GRAVITY FED TANK

0

Survey abandoned Remarks: PUMP UNDER WATER

0





0 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 28/09/2017	Section number : 123	PLR Suffix : X
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Photo: TANK Pipe from NRV Underwater.JPG
 0m, General remark

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 124	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

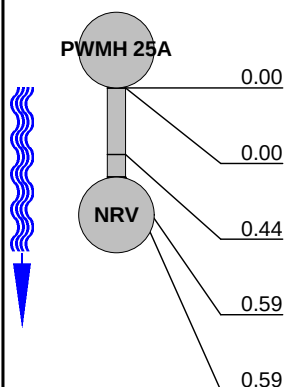
Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 25A (D/S) NRV	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PWMH 25A 0.94 NRV
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 0.59 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay		

Comment :

1:50 Position
Depth: 0.94

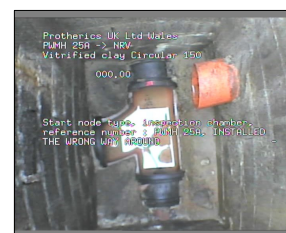
Observation

Grade



Start node type, inspection chamber, reference number : PWMH 25A Remarks: **INSTALLED THE WRONG WAY AROUND**
 Water level, 15% of the vertical dimension
 Material changes, polyvinyl chloride
 Water level, 35% of the vertical dimension
 Finish node type, other special chamber reference number: NRV

0
0
0
0
0



0 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 28/09/2017	Section number : 124	PLR Suffix : X
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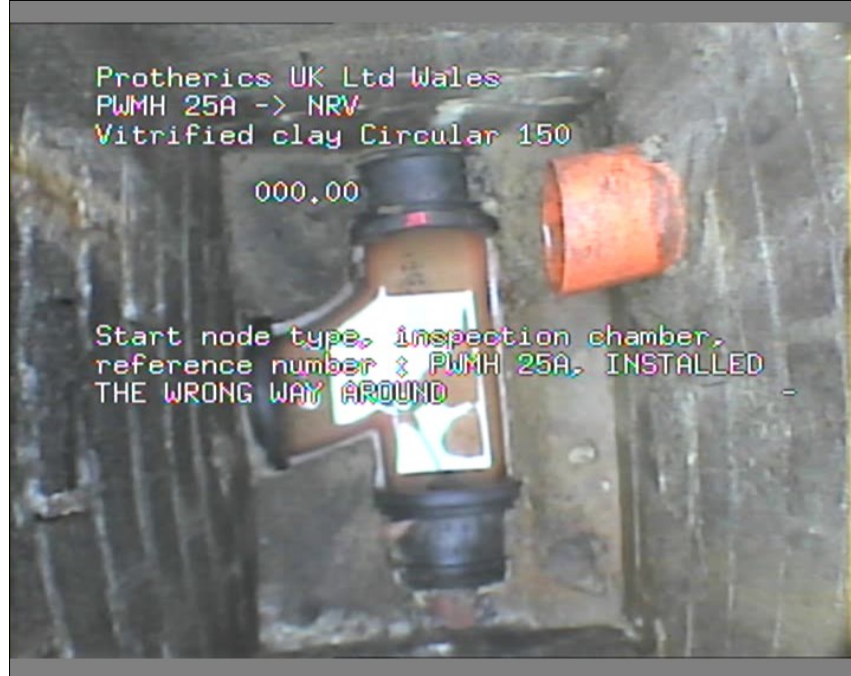


Photo: 129_129_853_A.JPG

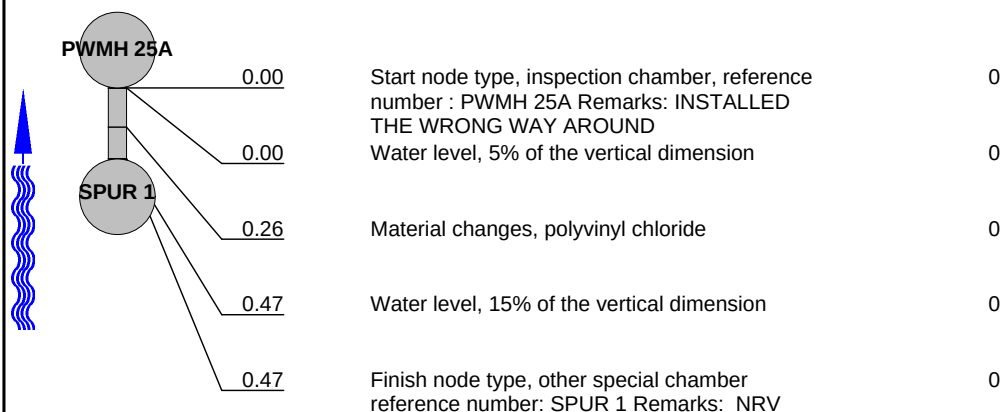
0m, Start node type, inspection chamber, reference number : PWMH 25A

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 125	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 25A (U/S) SPUR 1	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	SPUR 1 0.94 PWMH 25A 0.94
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 0.47 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:50 **Position**
Depth: 0.94
Observation
Grade

Depth: 0.94

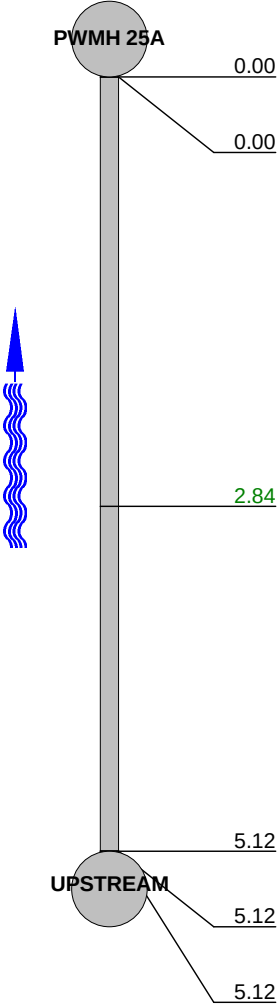
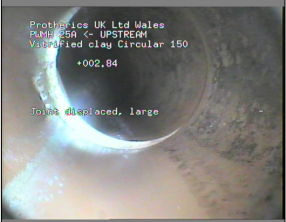
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 126	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 25A (U/S) UPSTREAM	Location details: Catchment: Pipe Shape : Pipe Length	 Circular 	U/S MH : U/S Depth : D/S MH : D/S Depth :	UPSTREAM 0.94 PWMH 25A 0.94
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 5.12 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	150 mm 150 mm Vitrified clay 		

Comment :

1:50	Position	Observation	Grade						
Depth: 0.94									
	PWMH 25A	Start node type, inspection chamber, reference number : PWMH 25A Remarks: INSTALLED THE WRONG WAY AROUND	0						
	0.00	Water level, 25% of the vertical dimension	0						
	2.84	Joint displaced, large	1						
	5.12	Line deviates down Remarks: 90 DEGREES TO TANK	0						
	5.12	Water level, 75% of the vertical dimension	0						
5.12	Finish node type, other special chamber reference number: TANK	0							
Depth: 0.94									
									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : Protherics UK Ltd	Road : Wales	Date : 28/09/2017	Section number : 126	PLR Suffix : X
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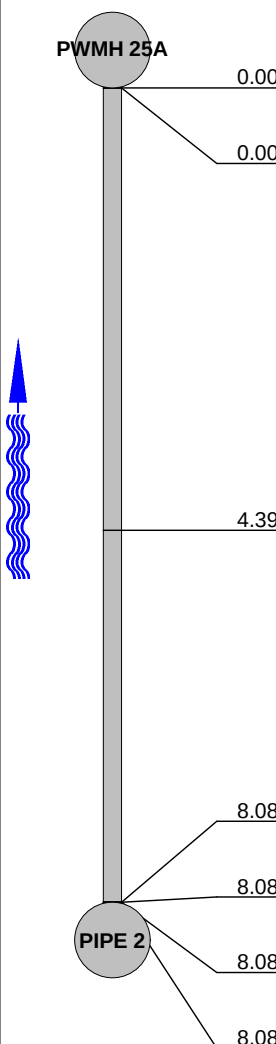
Photo: 131_131_865_A.JPG
2.84m, Joint displaced, large

Inspection report

Date : 28/09/2017	Job number : J48577	Section Type :	Operator : RYAN WOODS	Section number : 127	PLR SUFFIX: X
Weather no rain or snow	Vehicle : PO05 MUD	Camera :	Preset :	Cleaned : yes	Type of Drain : Gravity drain/sewer

Place : Road : Location Inspection	Protherics UK Ltd Wales Property with buildings PWMH 25A (U/S) PIPE 2	Location details: Catchment: Pipe Shape : Pipe Length	Circular	U/S MH : U/S Depth : D/S MH : D/S Depth :	PIPE 2 0.59 PWMH 25A 0.94
Use: Year laid : Purpose : Total length :	Trade effluent Sample survey to determine asset condition 8.08 m	Pipe Width : Pipe Diameter : Pipe material : Lining :	100 mm 100 mm Polyvinyl chloride 		

Comment :

1:75	Position	Observation	Grade						
Depth: 0.94									
	PWMH 25A								
	0.00	Start node type, inspection chamber, reference number : PWMH 25A	0						
	0.00	Water level, 5% of the vertical dimension	0						
	4.39	Line deviates right Remarks: 45 DEGREES	0						
	8.08	Line deviates up Remarks: 90 DEGREES	0						
	8.08	Water level, 0% of the vertical dimension	0						
	PIPE 2								
8.08	General remark Remarks: BASE OF GULLY BEHIND CABIN?	0							
8.08	Finish node type, gully reference number: PIPE 2 Remarks: GULLY?	0							
Depth: 0.59									
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
0	0	0	0	1	0	0	0	0	1