

MH # 4848-112
Approx depth = 10.7 ft

MH # 4848-111
Approx depth = 8.7 ft

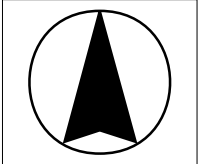
MH # 4848-037
Approx depth = 10.0 ft

MH # 4848-036
Approx depth = 10.0 ft

Install 777 lf of 8" Cured-in-Place Liner
from MH 4848-112 to MH 4848-037

Install 239 lf of 10" Cured-in-Place Liner
from MH 4848-037 to MH 4848-036

SITE 4



999

1044

9320

11TH ST. NORTH

1052

1026

1020

1025

PETERSON

WESTLINK

WESTLINK

PROVINCIAL

WESTFIELD

MURRAY

400'

377'

8"

239'

10"

323'

105'

12" 385'



PROVINCIAL

WESTFIELD

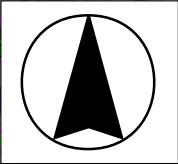
11TH ST NORTH

MURRAY

WESTLINK

WESTLINK

Aerial View



Television Inspection Master Report

1/14/2004
8:48:24AM

US Manhole: 4848-112
DS Manhole: 4848-111

1201 N WADDINGTON AVE
9320 W 11TH ST N

Date Insp: 6/4/2003

Basin: W06A

Dir Televised: Upstream To Downstream

Pipe Information

Shape: Round Length Status: Project No.: K-068
Dia/Ht Width: 8 Material: VCP Index:
Length: 377.7 Slope: 0.399 Surface:
Pipe Sec Length: Comment:

Inspection Information

Crew: KSN Percent Full: Tape ID: V-3958
Weather: Sunny Purpose: TV Existing Line Counter Start:
Surface Cond: N/A Flow: Normal Flow Counter Stop:

Obs. #	VTR Counter Comment	Dist	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1	0	7.0	US Manhole	4848-112						
2	1:15	26.0	Quad 2 / L-Rt	Roots	2		0.004	2	4	0.004
3	1:29	31.0	Quad 1 / U-Rt	Roots	2		0.004	2	4	0.004
4	1:53	36.0	Quad 1 / U-Rt	Roots	2		0.004	2	4	0.004
5	1:52	36.0	Quad 3 / L-Lt	Crack-Radial	3		0.004	5	0	0.004
6	2:05	41.0	Quad 2 / L-Rt	Roots	2		0.004	2	4	0.004
7	2:55	71.0	Quad 1 / U-Rt	Roots	2		0.004	2	4	0.004
8	3:59	98.0	South	Break-In Conn	2		0.002	0	0	0.002
9300 W 11TH ST										
9	4:17	106.0	Quad 2 / L-Rt	Crack-Radial	3		0.004	5	0	0.004
10	6:12	150.0	North	Break-In Conn	2		0.002	0	0	0.002
9301 W PROVINCIAL										
11	6:32	156.0	South	Wye Service SEALED OFF						
12	6:46	161.0	Quad 3 / L-Lt	Roots	4		0.010	10	25	0.010
13	7:52	197.0	North	Break-In Conn	5	0.000	0.010	400	0	0.010
14	7:52	197.0	North	Wye Service SEALED OFF						
15	7:57	198.0	Quad 2 / L-Rt	Roots	2		0.004	2	4	0.004
16	8:10	202.0	Quad 2 / L-Rt	Roots	2		0.004	2	4	0.004
17	8:57	214.0	South	Break-In Conn	0					0.000
9306 W 11TH ST										
18	9:09	217.0	Quad 4 / U-Lt	Roots	3		0.008	5	8	0.008
19	9:24	222.0	Quad 4 / U-Lt	Roots	2		0.004	2	4	0.004
20	9:53	228.0	North	Break-In Conn	0					0.000
9311 W PROVINCIAL										
21	10:11	229.0	South	Wye Service SEALED OFF						
22	10:51	249.0	Quad 3 / L-Lt	Roots	2		0.004	2	4	0.004
28	15:16	252.0	Quad 3 / L-Lt	Crack-Radial	3		0.004	5	0	0.004
23	11:05	254.0	Quad 3 / L-Lt	Roots	2		0.004	2	4	0.004
24	11:52	275.0	North	Wye Service SEALED OFF						
25	12:38	289.0	South	Break-In Conn	0					0.000
9314 W 11TH ST										
26	13:30	312.0	South	Wye Service SEALED OFF						
27	14:38	337.0	South	Break-In Conn	2		0.002	0	0	0.002
9320 W 11TH ST										
29	15:53	359.0	North	Wye Service	0					0.000
9321 W PROVINCIAL / roots inside										
30	16:16	364.0	Quad 1 / U-Rt	Offset	2		0.000	0	0	0.000
31	16:36	369.0	Quad 2 / L-Rt	Offset	3		0.010	20	0	0.010
32	16:45	370.0	Quad 2 / L-Rt	Crack-Radial	4		0.008	10	0	0.008
33	17:46	375.0	DS Manhole	4848-111						

NOTE: Line has a couple of sags, but water does not get to camera level.

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Television Inspection Master Report

1/14/2004
8:48:24AM

US Manhole: 4848-111
DS Manhole: 4848-037

9320 W 11TH ST N
1044 N WESTLINK AVE

Date Insp: 6/4/2003

Basin: W06A

Dir Televised: Upstream To Downstream

Pipe Information

Shape: Round	Length Status:	Project No.: K-068
Dia/Ht Width: 8	Material: VCP	Index:
Length: 400.0	Slope: 0.275	Surface:
Pipe Sec Length:	Comment:	

Obs. #	VTR Counter	Dist	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1	17:46	0.0	US Manhole 4848-111							
2	18:42	15.0	South	Wye Service SEALED OFF						
3	19:14	17.0	North	Break-In Conn	2		0.002	0	0	0.002
9401 W PROVINCIAL										
4	19:45	31.0	Quad 2 / L-Rt	Crack-Radial	3		0.004	5	0	0.004
5	20:23	37.0	South	Break-In Conn	2		0.002	0	0	0.002
9400 W 11TH ST										
6	21:17	62.0	North	Wye Service SEALED OFF						
7	21:15	77.0	Quad 1 / U-Rt	Roots	2		0.004	2	4	0.004
8	22:30	83.0	North	Break-In Conn	2		0.002	0	0	0.002
9415 W PROVINCIAL										
9	23:01	92.0	Quad 3 / L-Lt	Roots	2		0.004	2	4	0.004
10	23:14	94.0	South	Wye Service SEALED OFF						
11	23:19	94.0	Quad 2 / L-Rt	Roots	3		0.008	5	8	0.008
12	23:36	99.0	Quad 1 / U-Rt	Roots	2		0.004	2	4	0.004
13	23:51	104.0	Quad 2 / L-Rt	Roots	2		0.004	2	4	0.004
14	24:03	109.0	Quad 3 / L-Lt	Roots	3		0.008	5	8	0.008
15	24:17	114.0	Quad 3 / L-Lt	Roots	3		0.008	5	8	0.008
16	24:42	123.0	Quad 2 / L-Rt	Roots	3		0.008	5	8	0.008
17	25:26	128.0	South	Break-In Conn	0					0.000
9416 W 11TH ST										
18	25:35	129.0	Quad 2 / L-Rt	Roots	2		0.004	2	4	0.004
19	25:48	133.0	Quad 3 / L-Lt	Roots	2		0.004	2	4	0.004
20	26:06	138.0	Quad 3 / L-Lt	Roots	2		0.004	2	4	0.004
21	26:21	143.0	Quad 2 / L-Rt	Roots	2		0.004	2	4	0.004
22	26:32	145.0	North	Wye Service SEALED OFF						
23	26:57	155.0	Quad 1 / U-Rt	Roots	2		0.004	2	4	0.004
24	27:20	161.0	Quad 2 / L-Rt	Roots	2		0.004	2	4	0.004
25	28:36	175.0	Quad 2 / L-Rt	Roots	2		0.004	2	4	0.004
26	28:50	177.0	South	Wye Service SEALED OFF						
27	28:56	177.0	Quad 2 / L-Rt	Roots	2		0.004	2	4	0.004
28	29:28	181.0	North	Break-In Conn	0					0.000
9427 W PROVINCIAL / Tap is at water level with roots inside it										
29	29:38	182.0	Quad 4 / U-Lt	Roots	2		0.004	2	4	0.004
30	31:27	187.0	Quad 2 / L-Rt	Roots	2		0.004	2	4	0.004
31	31:55	197.0	Quad 1 / U-Rt	Roots	3		0.008	5	8	0.008
32	32:26	212.0	Quad 1 / U-Rt	Roots	3		0.008	5	8	0.008
33	32:47	221.0	Quad 1 / U-Rt	Roots	2		0.004	2	4	0.004
34	33:02	227.0	Quad 1 / U-Rt	Roots	3		0.008	5	8	0.008
35	33:15	230.0	Quad 4 / U-Lt	Roots	3		0.008	5	8	0.008
36	33:38	239.0	Quad 1 / U-Rt	Roots	3		0.008	5	8	0.008
37	34:28	241.0	South	Break-In Conn	2		0.002	0	0	0.002
1121 N MURRAY, CONNECTION FULL OF ROOTS.										

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Television Inspection Master Report

1/14/2004
8:48:24AM

US Manhole:	4848-111	9320 W 11TH ST N	Date Insp:	6/4/2003	Basin:	W06A			
DS Manhole:	4848-037	1044 N WESTLINK AVE							
38	34:41	242.0	Quad 1 / U-Rt	Roots	3	0.008	5	8	0.008
39	35:25	246.0	Quad 1 / U-Rt	Roots	3	0.008	5	8	0.008
40	34:41	251.0	Quad 1 / U-Rt	Roots	4	0.010	10	25	0.010
57	47:24	253.0	Quad 3 / L-Lt	Crack-Radial	3	0.004	5	0	0.004
41	34:55	254.0	Quad 1 / U-Rt	Roots	4	0.010	10	25	0.010
42	35:15	259.0	Quad 4 / U-Lt	Roots	3	0.008	5	8	0.008
43	35:33	262.0	Quad 4 / U-Lt	Roots	4	0.010	10	25	0.010
44	36:10	267.0	Quad 3 / L-Lt	Roots	3	0.008	5	8	0.008
45	36:26	270.0	Quad 1 / U-Rt	Roots	4	0.010	10	25	0.010
46	36:40	275.0	Quad 1 / U-Rt	Roots	4	0.010	10	25	0.010
47	36:57	281.0	North	Wye Service SEALED OFF					
48	37:16	282.0	Quad 3 / L-Lt	Roots	3	0.008	5	8	0.008
49	37:36	290.0	Quad 3 / L-Lt	Roots	3	0.008	5	8	0.008
50	37:43	293.0	Quad 3 / L-Lt	Roots	2	0.004	2	4	0.004
51	42:42	300.0	North	Break-In Conn	0				0.000
9501 W PROVINCIAL									
52	42:52	302.0	Quad 4 / U-Lt	Roots	3	0.008	5	8	0.008
53	43:05	303.0	North	Wye Service SEALED OFF					
54	43:49	304.0	Quad 4 / U-Lt	Roots	2	0.004	2	4	0.004
55	44:01	305.0	South	Wye Service SEALED OFF					
56	46:33	343.0	North	Break-In Conn	0				0.000
9515 W PROVINCIAL									
58	52:14	379.0	South	Wye Service SEALED OFF					
59	52:25	380.0	Quad 3 / L-Lt	Roots	3	0.008	5	8	0.008
60	52:40	381.0	North	Wye Service SEALED OFF					
61	56:22	394.0	DS Manhole						

LINE HAS A LOT OF ROOTS

4-5

Television Inspection Master Report

1/14/2004
8:48:24AM

US Manhole: 4848-037 1044 N WESTLINK AVE **Date Insp:** 1/9/2004 **Basin:** W06A
DS Manhole: 4848-036 1026 N WESTLINK AVE
Dir Televised: Upstream To Downstream

Pipe Information

Shape: Round Length Status: Project No.: K-068
 Dia/Ht Width: 10 Material: VCP Index:
 Length: 239.8 Slope: 0.196 Surface:
 Pipe Sec Length:

Inspection Information

Crew: 692 Percent Full: 25 Tape ID: 4196
 Weather: Sunny Purpose: TV Existing Line Counter Start: 0.0

Obs. #	VTR Counter	Dist	Location	Description	Rating	Obsrvd (gpm)	Est. (gpm)	Ratings Struct	Clean	Remain (gpm)
1		0.0	US Manhole 4848-037	(10" pipe)						0.000
2		9.0	Joint	Roots	2		0.004	2	4	0.004
3		49.0	Joint	Roots	2		0.004	2	4	0.004
4		51.0	West	Break-In Conn	1		0.001	0	0	0.001
LIVE CONNECTION----1044 N WESTLINK										
5		61.0	Joint	Roots	3		0.008	5	8	0.008
6		76.0	Joint	Roots	4		0.010	10	25	0.010
7		80.0	Joint	Roots	3		0.008	5	8	0.008
8		81.0	Crown	Broken Pipe	2		0.008	44	0	0.008
9		112.0	Joint	Roots	2		0.004	2	4	0.004
10		115.0	Joint	Roots	2		0.004	2	4	0.004
11		120.0	Joint	Roots	3		0.008	5	8	0.008
12		132.0	Joint	Roots	3		0.008	5	8	0.008
13		133.0	West	Wye Service	1		0.000	0	0	0.000
LIVE CONNECTION----1038 N WESTLINK										
14		139.0	Joint	Roots	4		0.010	10	25	0.010
15		146.0	Joint	Roots	3		0.008	5	8	0.008
16		155.0	Joint	Roots	3		0.008	5	8	0.008
17		158.0	Joint	Roots	3		0.008	5	8	0.008
18		162.0	Joint	Roots	3		0.008	5	8	0.008
19		166.0	Joint	Roots	4		0.010	10	25	0.010
20		175.0	Joint	Roots	4		0.010	10	25	0.010
21		178.0	Joint	Roots	3		0.008	5	8	0.008
22		189.0	Joint	Roots	3		0.008	5	8	0.008
23		194.0	Joint	Roots	3		0.008	5	8	0.008
24		202.0	Joint	Roots	2		0.004	2	4	0.004
25		220.0	East	Break-In Conn	2		0.002	0	0	0.002
LIVE CONNECTION----1101 W MURDOCK / some roots inside, not too bad										
26		223.0	West	Wye Service	1		0.000	0	0	0.000
LIVE CONNECTION-----1032 N WESTLINK										
27		239.0	DS Manhole 4848-036							0.000

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