

From: Julie A Zimdars <Julie.Zimdars@ramboll.com>
Sent: Friday, September 9, 2022 4:33 PM
To: Krueger, Sarah E - DNR
Cc: Dombrowski, Frank J; Staci L Goetz; Abigail Small; Prasad, Narendra M; Luke, Glenn R
Subject: City of Green Bay Notification of Affected ROWs/City Master Plan, Feb. 2004 - WPSC Former Green Bay MGP
Attachments: 1584 Not of Affected RTWs & Utilities Plan.pdf

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Hi Sarah – As I mentioned in our call on Wednesday, a notification of affected right-of-ways and need for an “engineered barrier” (page 3) was provided to the City on February 9, 2004 (attached for WDNR’s convenience). Per the direction of past DNR PM Kristin Dufresne, we were further requesting that they include this information on the City’s Master Plan. We note that the WDNR has a record of the letter on BRRTS (although no PDF is included). We also wanted to mention that the City did not elect to sign the Appendix B acknowledgement form, however, I had a follow-up call with them shortly after we sent it and I did verify that they received it. Please let us know if this prior notification letter to the City satisfies the WDNR’s current requirement for notification of a continuing obligation.

DATE	NO.	DESCRIPTION	RECORDING CONSULT REVIEW OF SUBMITTAL
2004-02-10	43	Site Activity Status Update Received	OFF-SITE NOTIFICATION LETTER TO OF GREEN BAY
2004-03-15	43	Site Activity Status Update Received	GW MONITORING RESULTS

Thanks,

Julie A. Zimdars, PE

Senior Managing Engineer

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 M 262-719-4507
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February 9, 2004
(1584)

Mr. Frank Dadam
City of Green Bay
Department of Public Works - Engineering
100 N. Jefferson St.
Green Bay, WI 54301

RE: Notification of Affected Right-of-ways and Utilities and Request for Inclusion on City's Master Plan
Wisconsin Public Service Corporation
Former Manufactured Gas Plant (MGP) Site
417 Elm Street, Green Bay, Wisconsin

Dear Mr. Dadam:

On behalf of Wisconsin Public Service Corporation (WPSC), Natural Resource Technology, Inc. (NRT) is providing the City of Green Bay notification of affected or potentially affected right-of-ways and utilities associated with their former manufactured gas plant (MGP) site. The MGP operated in the early 1900's in the current parking lot area between Elm Street and the East River. As part of WPSC's site remediation and closure process, the Wisconsin Department of Natural Resources (WDNR) has requested that any potentially affected right-of-ways be identified on the City's Master Plan. These right-of-ways are shown on Figure 2.

The current status of the street right-of-ways in the area of the former MGP site is the following:

- Elm Street is owned by the City.
- North Jefferson Street is closed to traffic and is owned by the City.
- Utility Street between Jefferson and Madison Streets is owned by WPSC. The Utility Street right-of-way east of Madison Street is owned by the City.
- The western half of North Madison Street is owned by WPSC and the eastern half is owned by the City.
- The storm sewers and sanitary sewers located in all street right-of-ways continue to be owned by the City.

Background

Soil and groundwater investigation and sampling of the site was conducted in the 1990's. Remediation efforts in this area were conducted from March through May 2003. Permits and approvals for the remediation were obtained from the City of Green Bay and the WDNR. The City

project numbers were 16943, 17010 and 17138. The MGP contamination resulted from the by-products and residuals of the coal gasification process including coal tar and gas purifier waste (i.e. wood/wood chips containing iron-complexed cyanide). Compounds found in coal tar are similar to typical petroleum compounds, including benzene, etc. and polynuclear aromatic hydrocarbons (PAHs). Other potential contaminants associated with MGP sites include phenols and metals.

The remedial activities consisted of excavation of a major portion of the MGP-contaminated soil, off-site thermal treatment of the soil, and backfilling the thermally treated soil in the excavations. Figure 1 shows the four areas that were excavated including Excavation Area 1, a portion of which was excavated in the Elm Street right-of-way. Sheet pile was installed north of the Elm Street curb in order to excavate as close as possible to Elm Street. The excavation in this area extended to approximately 8 ft in depth and was backfilled with thermally treated soil and bank run sand and gravel. Following sheet pile removal, a sample was collected on the south wall of the excavation at a depth of 8 ft (labeled EW1-5), located in the Elm Street right-of-way, which indicated low level MGP contamination. Soils containing MGP impacts in this right-of-way and the other potentially affected right-of-ways may generally range in depth from as shallow as 2 ft to as deep as 17 ft below ground surface. Analytical results of this sample and other samples located within or near the right-of-ways surrounding the site are presented on Table 1 with locations shown on Figure 1. Analytical results which are representative of the thermally treated soil used as backfill in the right-of-way are presented on Table 2.

Also as part of the remedial activities, a video inspection of the storm sewers within the City right-of-way and WPSC-owned storm sewers was conducted by Great Lakes TV Seal. The inspection logs and a labeled diagram of the City storm sewers are provided in Appendix A.

Notifications to City

Based on the previous activities conducted, WDNR has requested that WPSC notify the City of the following conditions regarding the right-of-ways and request inclusion on the City's Master Plan:

- Samples collected within and near the right-of-ways indicate there is a potential for MGP-impacted soil to be encountered in the Elm Street, Jefferson Street, Madison Street and Utility Street right-of-ways due to past MGP activities. These right-of-ways are shown on Figure 2. Any work that the City plans to conduct in these right-of-ways may require proper health and safety training and protective equipment. Additional sampling prior to the work being conducted may be necessary to determine the level of training and protection needed.

Mr. Frank Dadam
February 9, 2004
Page 3

- The video inspection of the 36-inch storm sewer line in Utility Street indicated oil in the sludge and oil sheen on the water. Several joint leaks were also noted. If sediment/sludge is removed from the sewer, it will require assessment of whether the oil is MGP-related. Following this assessment, the waste will need to be disposed in accordance with applicable regulations. None of the sewers located in the other streets indicated environmental impacts.
- If soil is generated as part of any work within the right-of-ways and is confirmed to be MGP-impacted, the waste will need to be properly managed and disposed in accordance with applicable regulations. The waste generated is not expected to require hazardous waste disposal; however, sampling may be necessary for verification of this.
- As part of the remedial action and future WDNR closure of the MGP site, the street right-of-ways will be considered an “engineered barrier” for protection of human health from direct contact to the soil. It also acts as a barrier for limiting infiltration and leaching of the contaminants to groundwater. The engineered barrier is part of the “soil performance standard” approach for addressing the residual soil contamination.

We will notify you if there are any changes to these conditions. Please contact us with questions or if further information is required. Please sign and return the attached page (Appendix B) or otherwise acknowledge in writing that the City has included the affected right-of-ways on the Master Plan. Thank you for your assistance in this matter.

Sincerely,

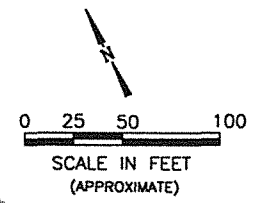
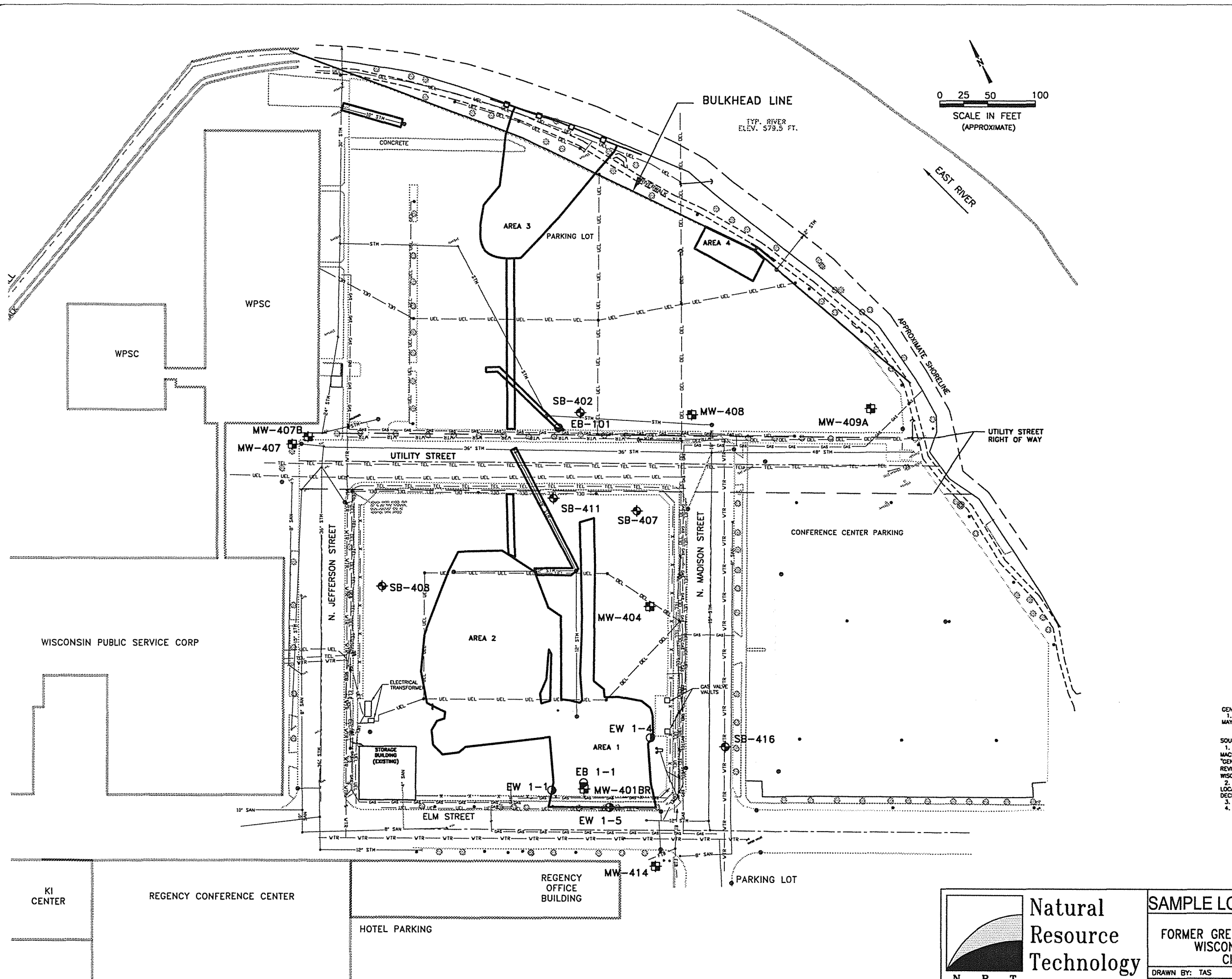
NATURAL RESOURCE TECHNOLOGY, INC.

Julie A. Zimdars, P.E.
Senior Engineer

Enclosures: Figure 1 – Sample Locations Near Right-of-Way
Figure 2 – Extent of Potentially Affected Right-of-Way
Table 1 – Summary of Soil Analytical Results Near Right-of-Way
Table 2 – Thermally Treated Soil Analytical Results
Appendix A – Storm Sewer Inspection Logs and Map
Appendix B – Acknowledgement of Affected ROW’s on Master Plan

Cc: Ms. Connie Lawniczak, WPSC
Ms. Kristin DuFresne, WDNR

FIGURES

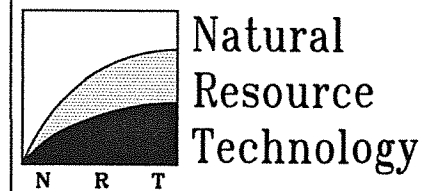


LEGEND	
	POWER POLE
	GUY WIRE
	CATCH BASIN
	MANHOLE
	LIGHT POLE
	HYDRANT
	TREE
	CENTERLINE OF STREET
	SHEET PILE WALL (EXISTING)
	EXTENT OF REMEDIAL EXCAVATION
	EXCAVATION BASE SAMPLE
	EXCAVATION WALL SAMPLE
	MONITORING WELL
	SOIL BORING
UTILITIES FROM SURVEY AND CITY MAPS	
	FIBER OPTIC LINE
	GAS LINE
	SANITARY SEWER LINE WITH PIPE SIZE
	STORM SEWER LINE WITH PIPE SIZE
	TELEPHONE LINE
	WATER LINE
	UNDERGROUND ELECTRIC LINE
	OVERHEAD ELECTRIC LINE

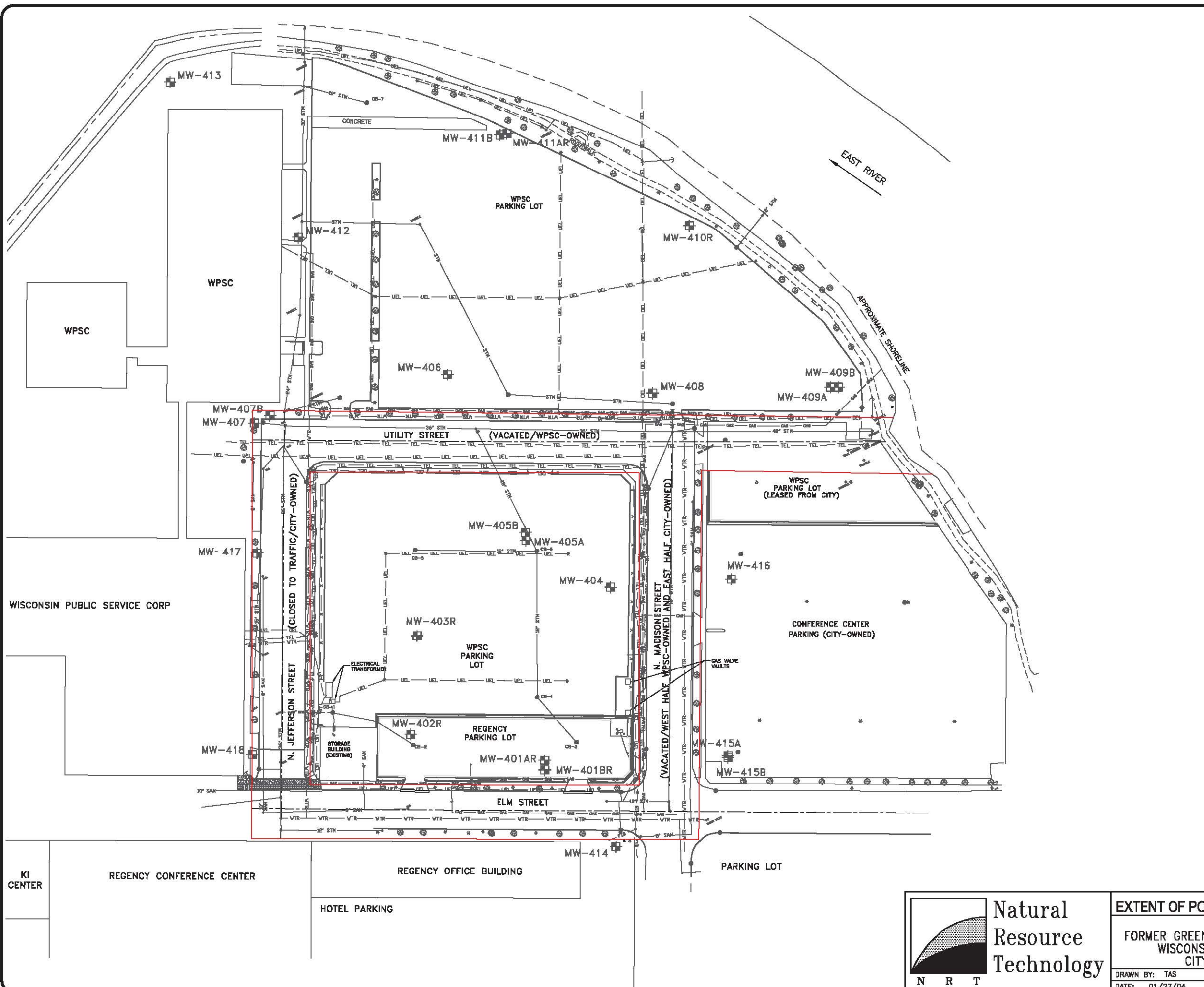
NOTES:
 1. ONLY SAMPLE LOCATIONS THAT ARE IN THE RIGHT-OF-WAY OR WITHIN APPROXIMATELY 25 FT. OF THE RIGHT-OF-WAY LIMIT AND FOR WHICH SOIL ANALYTICAL DATA EXISTS ARE SHOWN.

GENERAL NOTE:
 1. LOCATIONS OF PROPERTY BOUNDARIES, UTILITIES AND SITE FEATURES ARE APPROXIMATE AND MAY NOT BE ALL-INCLUSIVE AND MUST BE FIELD VERIFIED.

SOURCE NOTE:
 1. THIS DRAWING WAS DEVELOPED FROM DRAWINGS PROVIDED BY WPSC: "GENERAL LOCATION OF MACHINERY-TANKS-AND CONNECTING MAIN PIPES", DRAWING D01691, REVISIONS THROUGH 1949; "GENERAL PLAN OF GAS PLANT PROPERTY AT GREEN BAY, WISCONSIN", DWG. NO. 10-50006, REVISIONS THROUGH MARCH 1966; "GENERAL PLAN OF GAS PLANT PROPERTY AT GREEN BAY, WISCONSIN", DWG. NO. 10-50004-51, REVISIONS THROUGH APRIL 1970.
 2. EDI ENGINEERING AND SCIENCE (JANUARY 1986) AND SANBORN MAPS. STREET WIDTHS AND LOCATIONS ARE APPROXIMATE BUT SOIL BORING ARE SPATIALLY ACCURATE PER WPSC SURVEY DECEMBER, 1994 AND JULY 1996.
 3. SURVEY FROM WPSC COMPLETED NOVEMBER 2002.
 4. SURVEY FROM WPSC COMPLETED JUNE 2003.



SAMPLE LOCATIONS NEAR RIGHT-OF-WAY FORMER GREEN BAY MANUFACTURED GAS PLANT SITE WISCONSIN PUBLIC SERVICE CORPORATION CITY OF GREEN BAY, WISCONSIN			PROJECT NO. 1584/4.1
			DRAWING NO. 1584-41-B01
DRAWN BY: TAS DATE: 01/27/04			CHECKED BY: LLP DATE: 01/29/04
APPROVED BY: JAZ DATE: 01/29/04			FIGURE NO. 1



LEGEND

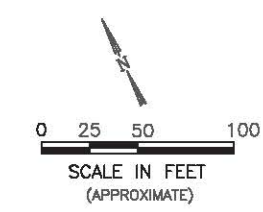
- EXTENT OF POTENTIALLY AFFECTED RIGHT-OF-WAY
- POWER POLE
- GUY WIRE
- CATCH BASIN
- MANHOLE
- LIGHT POLE
- HYDRANT
- TREE
- CENTERLINE OF STREET
- FENCE
- MW-410R MONITORING WELL

UTILITIES FROM SURVEY AND CITY MAPS

- FIBER OPTIC LINE
- GAS LINE
- SANITARY SEWER LINE WITH PIPE SIZE
- STORM SEWER LINE WITH PIPE SIZE
- TELEPHONE LINE
- WATER LINE
- UNDERGROUND ELECTRIC LINE
- OVERHEAD ELECTRIC LINE

GENERAL NOTE:
 1. LOCATIONS OF PROPERTY BOUNDARIES, UTILITIES AND SITE FEATURES ARE APPROXIMATE AND MAY NOT BE ALL-INCLUSIVE AND MUST BE FIELD VERIFIED.

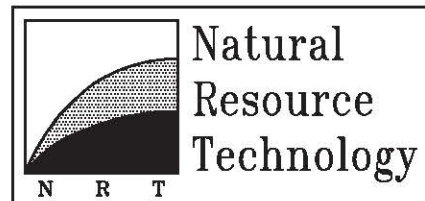
SOURCE NOTE:
 1. THIS DRAWING WAS DEVELOPED FROM DRAWINGS PROVIDED BY WSPC: "GENERAL LOCATION OF MACHINERY-TANKS-AND CONNECTING MAIN PIPES", DRAWING DD1891, REVISIONS THROUGH 1949; "GENERAL PLAN OF GAS PLANT PROPERTY AT GREEN BAY, WISCONSIN", DWG. NO. 10-5000S, REVISIONS THROUGH MARCH 1986; "GENERAL PLAN OF GAS PLANT PROPERTY AT GREEN BAY, WISCONSIN", DWG. NO. 10-50004-S1, REVISIONS THROUGH APRIL 1970.
 2. EDI ENGINEERING AND SCIENCE (JANUARY 1988) AND SANBORN MAPS. STREET WIDTHS AND LOCATIONS ARE APPROXIMATE BUT SOIL BORING ARE SPATIALLY ACCURATE PER WSPC SURVEY DECEMBER, 1994 AND JULY 1996.
 3. SURVEY FROM WSPC COMPLETED NOVEMBER 2002.
 4. PROPOSED PARKING IMPROVEMENTS PROVIDED BY PERFORMA, DE PERE, WISCONSIN, PROJECT # 03017, DIGITAL FILE C1-2.DWG, DRAWING DATED 02/14/03. REFER TO PERFORMA DRAWINGS FOR ADDITIONAL DIMENSIONS AND INFORMATION.
 5. REPLACEMENT WELLS AND CATCH BASINS CB-1 THROUGH CB-7 FROM SURVEY BY WSPC JULY 2003.
 6. GENERAL SURVEY FOLLOWING REMEDIATION BY WSPC AUGUST 6, 2003.



WI
 CENTER
 REGENCY CONFERENCE CENTER
 HOTEL PARKING

REGENCY OFFICE BUILDING
 PARKING LOT

CONFERENCE CENTER PARKING (CITY-OWNED)
 WSPC PARKING LOT (LEASED FROM CITY)



EXTENT OF POTENTIALLY AFFECTED RIGHT-OF-WAY			PROJECT NO. 1584/4.1
FORMER GREEN BAY MANUFACTURED GAS PLANT SITE WISCONSIN PUBLIC SERVICE CORPORATION CITY OF GREEN BAY, WISCONSIN			DRAWING NO. 1584-41-B02C
DRAWN BY: TAS	CHECKED BY: LLP	APPROVED BY: JAZ	FIGURE NO. 2
DATE: 01/27/04	DATE: 01/29/04	DATE: 01/29/04	

**Table 1 - Summary of Soil Analytical Results Near Right-of-Way
Wisconsin Public Service Corporation
Green Bay Former Manufactured Gas Plant Site**

Sample Location and Depth	Date	PVOCs (ug/kg)								mg/kg		PAHs (ug/kg)																	mg/kg	Inorganics (mg/kg)															
		Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	1,3,5 Trimethylbenzene	1,2,4 Trimethylbenzene	Diesel Range Organics	Gasoline Range Organics	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(ghi)perylene	Benzo(a)pyrene	Dibenzo(a,h)anthracene	Chrysene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Total PAHs	Phenol	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Cyanide, Amenable	Cyanide, Total					
SB-402-4 ft	11/12/1994	nd	nd	nd	200	200	--	--	--	nd	--	56	560	240	190	680	410	--	310	610	nd	240	--	--	410	150	400	4,256	0.31	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB-407-2 ft	11/12/1994	53	80	nd	410	543	--	--	--	nd	--	2,100	7,300	3,000	2,800	7,400	5,500	--	4,100	15,000	3,800	3,500	--	--	11,000	12,000	6,700	84,200	0.26	--	--	--	--	--	--	--	--	--	--	--	--	--			
SB-408-8 ft	11/13/1994	59	nd	1,000	910	1,969	--	--	--	nd	--	4,300	10,000	1,500	2,200	3,700	5,800	--	4,800	36,000	28,000	1,700	--	--	53,000	38,000	6,100	195,100	0.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SB-411-6 ft	11/15/1994	52	76	nd	nd	128	--	--	--	nd	--	820	880	380	360	870	830	--	750	3,000	1,300	450	--	--	7,300	3,400	4,500	24,840	0.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SB-416-2 ft	11/30/1994	90	nd	nd	nd	90	--	--	--	nd	--	16	110	52	78	240	160	--	65	61	nd	120	--	--	250	66	100	1,318	0.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-404-2 ft	11/22/1994	nd	nd	nd	17	17	--	--	--	nd	--	50	220	120	44	370	260	--	180	420	nd	170	--	--	310	160	290	2,594	0.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-407-3 ft	11/12/1994	nd	nd	nd	nd	nd	--	--	--	nd	--	nd	14	8	8	17	11	--	11	26	nd	8	--	--	nd	nd	16	118	nd	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-408-4 ft	11/13/1994	nd	nd	nd	nd	nd	--	--	--	nd	--	430	2,100	730	970	1,700	980	--	1,300	4,400	630	770	--	--	11,000	4,100	1,500	30,610	nd	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-409-6 ft	11/14/1994	nd	nd	520	nd	520	--	--	--	nd	--	1,900	20,000	7,300	5,700	15,000	10,000	--	9,500	17,000	200	7,000	--	--	13,000	3,500	4,600	114,700	0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-414-2 ft	12/13/1994	nd	nd	nd	nd	nd	--	--	--	nd	--	nd	27	12	16	53	25	--	24	42	nd	18	--	--	nd	37	51	305	nd	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-401BR-10 ft	11/16/2002	20,000	30,000	9,700	47,000	106,700	7,000	21,000	1,600	760	nd	5,300	1,800	1,000	nd	580	nd	840	nd	870	1,800	1,900	nd	13,000	20,000	64,000	5,000	2,000	118,090	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-401BR-34 ft	11/18/2002	nd	nd	nd	nd	nd	nd	nd	--	nd	nd	nd	nd	nd	nd	nd	8	nd	nd	nd	nd	nd	nd	13	17	nd	nd	38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-407B-34 ft	11/16/2002	nd	nd	nd	nd	nd	nd	nd	--	nd	nd	nd	nd	nd	nd	nd	8.6	nd	nd	13	nd	nd	nd	9.9	11	nd	nd	42.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW 1-1 (6-ft)	4/8/2003	190*	< 120	2,200	2,900	5,290	--	--	--	690*	580*	580*	730	470*	590*	320*	700	< 170	600	1,400	610	340*	1,400	2,000	12,000	2,000	1,200	26,210	< 8.9	1.4	22	0.16*	7.7	31	0.006	0.52	0.047*	0.83	0.83						
EW 1-4 (3-ft)	4/8/2003	82	< 25	60*	127*	269	--	--	--	450	330*	1,200	4,400	3,800	4,400	1,800	5,300	870	3,800	4,200	550	2,600	630	670	2,400	3,000	4,100	44,500	< 9.5	2.3	77	0.29	16	41	0.20	0.80	0.063*	2	2						
EW 1-5 (8-ft)	4/25/2003	840	890	8,600	6,900	17,230	--	--	--	< 440	2,400	820*	580*	< 260	< 360	< 480	440*	< 300	470*	800*	1,000	< 440	5,100	7,900	23,000	2,400	1,100*	46,010	0.50*	2.5	100	0.22*	25	5.5	0.0085	0.84*	0.058*	0.31*	0.31*						
EB 1-1 (8-ft)	4/8/2003	< 120	430	1,500	3,900	5,830	--	--	--	< 4000	17,000*	5,700*	3,800*	< 2300	< 3300	< 4300	2,600*	< 2700	3,600*	6,500*	6,700*	< 4000	37,000	53,000	120,000	19,000	7,900*	282,800	< 9.2	2.5	84	0.22*	22	5.6	0.011	0.98	0.048*	0.55	0.55						
EB 101 (8-ft)	4/22/2003	< 25	< 25	1,100	75	1,175	--	--	--	< 13	< 21	< 13	< 7.1	< 7.7	< 11	< 14	< 7.1	< 8.7	< 8.1	< 9.4	< 7.1	< 13	9.5*	12*	41	< 9.4	< 15	62.5	< 0.42	3.6	69	0.23*	24	5.6	0.0090	0.94	0.041*	0.50	0.50						

- Notes:**
- For samples collected in 1994 & 2002, depth of sample is one foot interval on either side of the depth given (e.g. SB-402-4 is from 3 to 5 feet). For samples collected in 2003, sample was collected at depth specified.
 - nd = no detects
 - = not analyzed
 - PVOCs = Petroleum Volatile Organic Compounds
 - PAHs = Polynuclear Aromatic Hydrocarbons
 - ug/kg = micrograms per kilogram
 - mg/kg = milligrams per kilogram
 - SB = Soil Boring sample
 - MW = Monitoring well sample
 - EW = Excavation Wall sample
 - EB = Excavation Base sample
 - * = The reported result is less than the practical quantitation limit

Table 2 - Thermally Treated Soil Analytical Results
Wisconsin Public Service Corporation
Green Bay Former Manufactured Gas Plant Site

Sample ID	Date	BTEX µg/kg				Total BTEX	Polynuclear Aromatic Hydrocarbons (PAHs) µg/kg																	Total PAHs	Total cPAHs	Total Solids	Inorganics mg/kg										Total Organic Carbon	Pass/Fail		
		Benzene	Ethylbenzene	Toluene	Total Xylenes		1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene [c]	Benzo(a)pyrene [c]	Benzo(b)fluoranthene [c]	Benzo(g,h)perylene	Benzo(k)fluoranthene [c]	Chrysene [c]	Dibenzo(a,h)anthracene [c]	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene [c]	Naphthalene	Phenanthrene				Pyrene	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Cyanide, Amenable			Cyanide, Total	
PST-26	5/5/2003	73	<25	<25	<50	73	<81	<87	<130	<210	<130	<69	<69	<75	<140	<100	<80	<85	<92	<69	<130	100*	<92	<150	100	<130	86.6	--	--	--	--	--	--	--	--	--	0.34*	--	Pass	
PST-27	5/5/2003	80	<25	<25	<50	80	<79	<84	<120	<200	<120	<67	<67	<73	<130	<100	<78	<83	<90	<67	<120	130*	<90	<150	130	<120	89.0	3.6	63	0.26	22	55	0.0045*	1	0.45*	0.33*	0.33*	--	Pass	
PST-28	5/6/2003	67*	<25	<25	<50	67	<80	<86	<130	<210	<130	<69	<69	<74	<140	<100	<79	<84	<91	<69	<130	90*	<91	<150	90	<130	87.6	--	--	--	--	--	--	--	--	0.17*	--	Pass		
PST-29	5/8/2003	67	<25	58*	61*	186	<80	<86	<130	<210	<130	<69	<69	<75	<140	<100	<79	<85	<92	<69	<130	<86	<92	<150	<210	<130	90.9	4.4	85	0.57	22	160	0.0072	1.5	0.11	0.26*	0.26*	--	Pass	
PST-30	5/9/2003	33*	<25	<25	<50	33	<84	<89	<130	<210	<130	<72	<72	<78	<140	<110	<82	<88	<95	<72	<130	99*	<95	<160	99	<130	83.8	--	--	--	--	--	--	--	--	0.30*	--	Pass		
PST-31	5/12/2003	94	<25	<25	<50	94	140*	160**	<130	<210	<130	<69	<69	<75	<140	<100	100*	<85	<92	<69	<130	97#	200*	<150	1,510	100	86.8	--	--	--	--	--	--	--	--	51,000	--	Fail		
PST-31-R1	5/14/2003	150	32*	79	<50	261	93*	110**	<130	<210	300*	350	510	370	<140	510	560	<84	500	<68	270*	680	620	560	5,433	2,570	87.6	--	--	--	--	--	--	--	--	--	--	Fail		
PST-31-R2	5/14/2003	140	<25	54*	<50	194	<82	<87	<130	<210	360*	510	570	450	220*	600	690	96*	860	<70	210*	400	790	930	6,686	3,126	85.6	--	--	--	--	--	--	--	--	--	--	Fail		
PST-32	5/12/2003	130	<25	<25	<50	130	<87	<93	<140	<220	150*	200*	150*	100*	<150	180*	290	<92	340	<74	<140	240*	400	360*	2,410	920	82.2	--	--	--	--	--	--	--	--	0.49	--	Pass		
PST-33	5/13/2003	120	<25	<25	<50	120	<81	<87	<130	<210	<130	69*	79*	<75	<140	<100	160*	<85	140*	<69	<130	210*	280*	<150	938	308	86.7	4.6	100	0.74	17	330	0.0042*	1.1	0.21	0.48	0.48	--	Pass	
PST-34	5/15/2003	120	<25	61*	<50	181	<81	<87	<130	<210	<130	<70	<70	<76	<140	<100	<80	<86	<93	<70	<130	110*	<93	<150	110	<130	86.1	--	--	--	--	--	--	--	0.37*	--	Pass			
PST-35	5/15/2003	150	<25	44*	<50	194	<83	<89	<130	<210	<130	<71	<71	<77	<140	<110	<82	<88	<95	<71	<130	210*	140*	<150	350	<130	83.2	5.1	66	0.39	18	120	<0.0018	0.77	0.13	0.43	0.43	23,000	Pass	
PST-36	5/19/2003	190	<25	74	<50	264	<84	<90	<130	<220	<130	<72	<72	<78	<140	<110	100*	<89	140*	<72	<130	290	310	<160	840	100	83.5	--	--	--	--	--	--	--	0.55	--	Pass			
PST-37	5/19/2003	97	<25	33*	<50	130	<81	<87	<130	<210	<130	<70	<70	<76	<140	<100	<80	<86	<93	<70	<130	170*	100*	<150	270	<130	85.9	4.8	71	0.37	19	130	0.0085	1.4	0.12	0.41	0.41	--	Pass	
PST-38	5/19/2003	110	<25	<25	<50	110	<80	<86	<130	<210	<130	<68	<68	<74	<140	<100	<79	<84	<91	<68	<130	140*	<91	<150	140	<130	87.6	--	--	--	--	--	--	--	0.25*	--	Pass			
PST-39	5/19/2003	120	39*	74	229*	462	<82	<88	<130	<210	<130	<70	<70	<76	<140	<110	<81	<87	<94	<70	<130	140*	<94	<150	140	<130	85.5	5	110	0.58	21	120	0.0021*	1.3	0.18	0.17*	0.17*	--	Pass	
PST-40	5/20/2003	120	<25	<25	<50	120	<82	<88	<130	<210	<130	<70	<70	<76	<140	<110	<81	<87	<94	<70	<130	110*	150*	<150	260	<130	85.2	--	--	--	--	--	--	--	0.34*	--	Pass			
PST-41	5/21/2003	58	<25	<25	<50	58	<81	<87	<130	<210	<130	<69	<69	<75	<140	<100	<80	<86	<93	<69	<130	<87	<93	<150	<210	<130	86.4	4.5	88	0.48	22	130	0.0031*	1.3	0.11	<0.12	<0.12	--	Pass	
PST-42	5/22/2003	120	<25	36*	<50	156	<84	<90	<130	<210	<130	<72	<72	<78	<140	<110	<82	<88	<96	<72	<130	94*	<96	<160	94	<130	83.7	--	--	--	--	--	--	--	0.30*	--	Pass			
PST-43	5/23/2003	100	<25	<25	<50	100	<78	<84	<120	<200	<120	<67	<67	<73	<130	<100	<77	<83	<89	<67	<120	<84	<89	<150	<200	<120	89.4	4	67	0.36	18	100	<0.0017	1.4	0.078	0.24*	0.24*	--	Pass	
PST-44	5/27/2003	150	<25	29*	<50	179	<77	<82	<120	<200	<120	<66	<66	<71	<130	<99	<76	<81	<88	<66	<120	<82	<88	<140	<200	<120	91.1	--	--	--	--	--	--	--	0.17*	--	Pass			
Treatment Standards		500	2,900	1,500	4,100	ns	ns	ns	ns	700	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	400	1,800	ns	50,000	10,000	--	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns

- Notes:
- ns = no standard
 - = not analyzed
 - µg/kg = micrograms/kilogram
 - mg/kg = milligrams/kilogram
 - PST = Post-treated (thermally treated) soil pile sample
 - Treatment Standards based on the Remedial Work Plan Treatment Performance Criteria
 - [c] = carcinogenic PAH, classified as B2 probable human carcinogen
 - cPAHs = carcinogenic PAHs
 - Lighter font indicates failed treated soil piles requiring re-treatment.
 - Concentrations that exceed the treatment standards are in italics.
 - R = indicates resamples of treated soil piles.
 - * = The reported result is less than the practical quantitation limit.
 - ** = Suspected sample cross-contamination with pre-treated sample.
 - # = Pile was passed with exceedance of the naphthalene treatment standard.

[O-JAZ 47/03 C&O-DWB 5/11/03, IAH/GRL/JAZ 12/03]

APPENDIX A

STORM SEWER INSPECTION LOGS AND MAP

2003

STORM SEWER INSPECTION

WISCONSIN PUBLIC SERVICE

Former Green Bay Manufactured Gas Plant Site

Construction by: Gauthier & Sons Construction Inc.

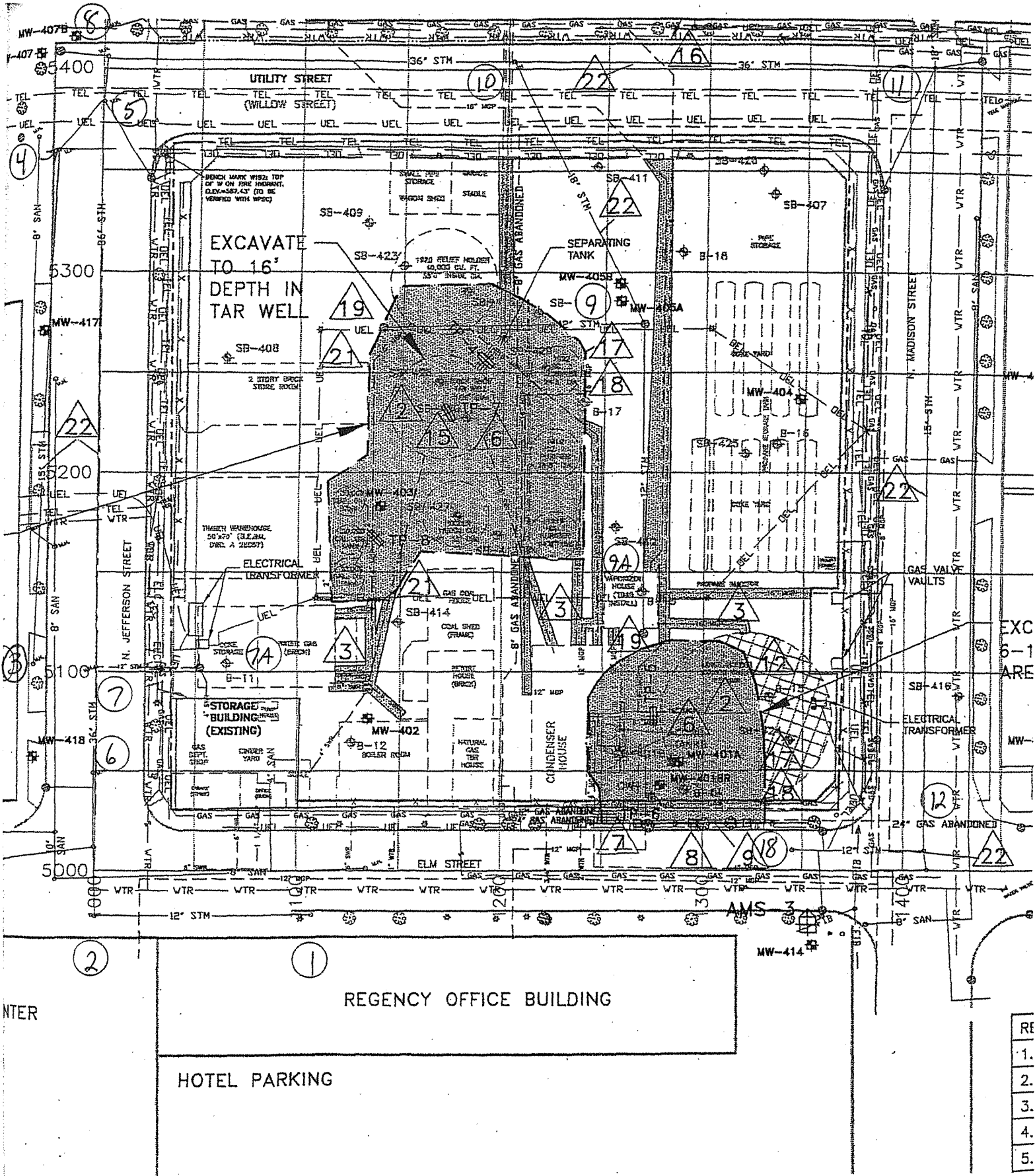


3600 Kewaunee Road • Green Bay, WI 54311 • (920) 863-3663 fax (920) 863-3662
www.greatlakestvseal.com

CCTV Survey List

Client Gauthier & Sons Construction Inc.

Setup	Date	Road	Start	Finish	Length Ft
1	4/23/03	Elm Street	MH 1	MH 2	109.0
2	4/23/03	North Jefferson Street	MH 3	MH 4	265.0
3	4/23/03	North Jefferson Street	MH 4	MH 5	37.0
4	4/23/03	North Madison Street	MH 12	MH 11	394.0
5	4/23/03	Easement off of Utility Street	CB 9	MH 10	149.0
6	4/23/03	Jefferson Street	MH 6	MH 7	53.0
7	4/23/03	Jefferson Street	MH 7	MH 5	283.0
8	4/23/03	Jefferson Street	MH 5	MH 8	27.0
9	4/23/03	Utility Street	MH 8	MH 10	202.0
10	4/25/03	Easement(Utility St-Fox River)	MH 13	MH 14	106.0
11	4/25/03	Easement(Utility St-Fox River)	MH 14	MH 15	101.0
12	4/25/03	Easement(Utility St-Fox River)	MH 15	MH 16	145.0
13	5/8/03	Parking Lot (North of Elm St.)	CB 9	CB 9A	153.0
14	5/14/03	Catch basin lead off Jefferson	MH 7	MH 7A	54.0
15	5/14/03	Easement along WPS building	MH 13	CB 13A	63.0
16	5/14/03	Parking Lot	CB 15B	CB 15A	175.0
17	5/14/03	Parking Lot	CB 15A	CB 15C	200.0
18	5/14/03	Parking Lot	CB 15C	MH 15	118.0
19	5/14/03	Parking Lot	CB 16A	MH 16	69.0
20	5/14/03	Parking Lot	MH 16	CB 16A	69.0
21	5/23/03	Utility Street	MH 10	MH 11	210.0
22	5/23/03	Elm Street	MH 18	MH 12	65.0
23	5/23/03	Easement	MH 16	MH 17	26.0
24	5/23/03	Easement	MH 17	OUTFALL	33.0
Number of surveys in this list is 24				Total length surveyed	3106.0



- 1.
- 2.
- 3.
- 4.
- 5.

CCTV Report for Gauthier & Sons Construction Inc.

Works Order Number 03107		Video Cassette 03-01		Date Wednesday, April 23, 2003		Setup 1	
Operator Brett Healy		Van Reference					
Road Name Elm Street		Weather Dry					
Place Name		ZIP Code					
Location type Roadway							
Surface Concrete							
Survey purpose xxx				From MH 1		Depth 6.67 Ft	
PIPE Use Storm				To MH 2		Depth 6.75 Ft	
Shape Circular				Dirn Down			
Material Concrete				Pre-clean			
Lining xxx				Total length 109.0 Ft			
				Size 12 by ins			
				Pipe length 7.00 Ft			
				Year laid			
General note CITY HAS PUMPED WATER LEVEL DOWN						Service Constructional	
Location note WISCONSIN PUBLIC SERVICE CORPORATION						Structural Miscellaneous	

Video	Photo	Count	CD Code	Sev	From	To	Value	Remarks
00:00:00		0.0	ST					Start of Survey
		0.0	MH					Manhole/Node
		0.0	WL				00	Water level
		20.0	FYL					Factory Wye Left
		30.0	CB					Catch Basin
		30.0	DE		L			Debris
	1	56.0	PM					Piece(s) Missing
		109.0	GO					General observation
00:09:21		109.0	MH					Manhole/Node
		109.0	FH					Finish of Survey

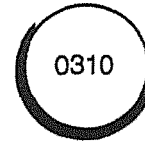
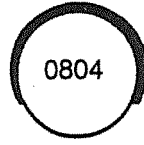
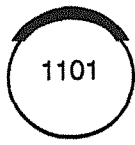
Notes

MH 1 (1st manhole east of Jefferson St.)
Precast construction / Good condition

MH 2 (Manhole at Jefferson St.)
Precast construction
Casting offset to accomodate curbing

SEV column indicates severity of defect:
S indicates light
M indicates medium
L indicates heavy

Clock references: Clock references are given clockwise ie from 10 o'clock to 2 o'clock = 1002. The upper part of a pipe is 0903 and the lower half is 0309. See illustration below



TV Survey Picture for Gauthier & Sons Construction Inc.

<i>Works Order Number</i> 03107	<i>Surveyed on</i> 23-Apr-03	
<i>Road Name</i> Elm Street	<i>Video cassette</i> 03-01	<i>Weather</i> Dry
<i>Place Name</i>	<i>ZIP Code</i>	
<i>Location code</i> Roadway		
<i>From Manhole</i> MH 1	<i>To Manhole</i> MH 2	<i>Survey direction</i> Down

Setup Number 1 Photo Number 1 Counter 56 Ft



7.JPG

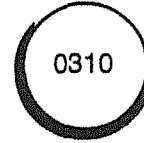
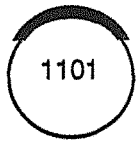
Pipe Details:	<i>Year laid</i>	<i>Shape</i> Circular	<i>Size</i> 12ins
	<i>Material</i> Concrete	<i>Lining</i> xxx	<i>Use</i> Storm
Observation	PM(Piece(s) Missing)		
Comments	AT JOINT		

CCTV Report for Gauthier & Sons Construction Inc.

Works Order Number 03107		Video Cassette 03-01		Date Wednesday, April 23, 2003		Setup 2	
Operator Brett Healy		Van Reference					
Road Name North Jefferson Street				Weather Dry			
Place Name		ZIP Code					
Location type Terrace							
Surface Turf/Grass							
Survey purpose xxx				From MH 3		Depth 5.75 Ft	
PIPE Use Storm				To MH 4		Depth 6.00 Ft	
Shape Circular				Dirn Down			
Material Concrete				Pre-clean			
Lining xxx							
				Total length 265.0 Ft			
				Size 15 by ins			
				Pipe length 4.00 Ft			
				Year laid			
General note CITY HAS PUMPED WATER LEVEL DOWN						Service Constructional	
Location note WISCONSIN PUBLIC SERVICE CORPORATION						Structural Miscellaneous	

Video	Photo	Count	CD	Code	Sev	From	To	Value	Remarks
00:09:21		0.0	ST	Start of Survey					
		0.0	MH	Manhole/Node					MH 3 (2ND MH SOUTH OF UTILITY ST.)
		0.0	WL	Water level				00	WATER LEVEL PERCENT
		10.0	MJL	Mineral Deposits at Jt (Light)					
	1	26.0	MJM	Mineral Deposits at Jt (Med)					
		30.0	MJM	Mineral Deposits at Jt (Med)					
		38.0	MJL	Mineral Deposits at Jt (Light)					
		42.0	MJL	Mineral Deposits at Jt (Light)					
		52.0	MJL	Mineral Deposits at Jt (Light)					TO 58'
		70.0	MJL	Mineral Deposits at Jt (Light)					TO 78'
	2	78.0	RTJ	Roots at Joint					< 5%
		82.0	MJL	Mineral Deposits at Jt (Light)					TO 134'
		88.0	JL	Joint Leaking					WEEPING
		91.0	GO	General observation					ROOTS BROKEN OFF AT JOINT
		103.0	RTJ	Roots at Joint					< 5%
		115.0	GO	General observation					SCALE BUILD UP AT 4:00 & 8:00
	3	123.0	JL	Joint Leaking					WEEPING
		123.0	GO	General observation					SCALE ON PIPE WALLS CONTINUING
		139.0	TTL	Tapped Tee Left					SERVICE FLOWING
		139.0	DC	Dimension of sewer changes					TO 21" CONCRETE PIPE
		139.0	DE	Debris					5" TO MH 4
		145.0	MJL	Mineral Deposits at Jt (Light)					TO 265'
		183.0	MJM	Mineral Deposits at Jt (Med)					
	4	210.0	JL	Joint Leaking					DRIPPING
	5	245.0	MJM	Mineral Deposits at Jt (Med)					
00:31:12		265.0	MH	Manhole/Node					MH 4 (1ST MH SOUTH OF UTILITY ST.)
		265.0	FH	Finish of Survey					

Clock references: Clock references are given clockwise ie from 10 o'clock to 2 o'clock = 1002. The upper part of a pipe is 0903 and the lower half is 0309. See illustration below

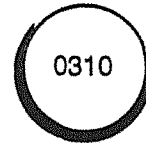
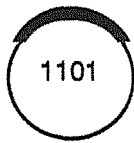


Notes

MH 3 (2nd manhole south of Utility St.)
Block construction / Good condition

MH 4 (1st manhole south of Utility St.)
Block construction / Good condition

Clock references: Clock references are given clockwise ie from 10 o'clock to 2 o'clock = 1002. The upper part of a pipe is 0903 and the lower half is 0309. See Illustration below



CCTV Survey pictures for Gauthier & Sons Construction Inc.

Works Order Number 03107	Surveyed on 23-Apr-03	Setup Number 2	Video cassette 03-01	Weather Dry
Road Name North Jefferson Street	Place Name	ZIP Code		
Location xxx	From Manhole MH 3	To Manhole MH 4	Survey direction Down	

Photo Number 1
 Distance 26.0 Ft.
 Code: MJM (Mineral
 Deposits at Jt (Med)).

Comments:



Photo Number 2.
 Distance 78.0 Ft.
 Code: RTJ (Roots at
 Joint).

Comments: < 5%

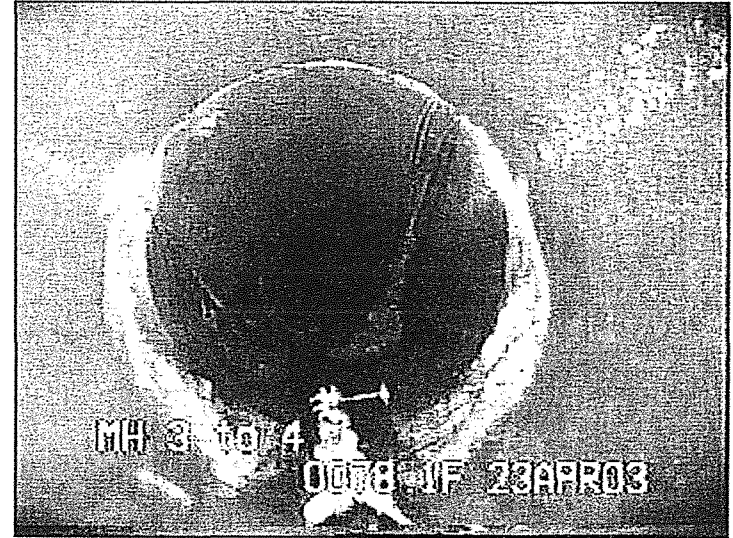


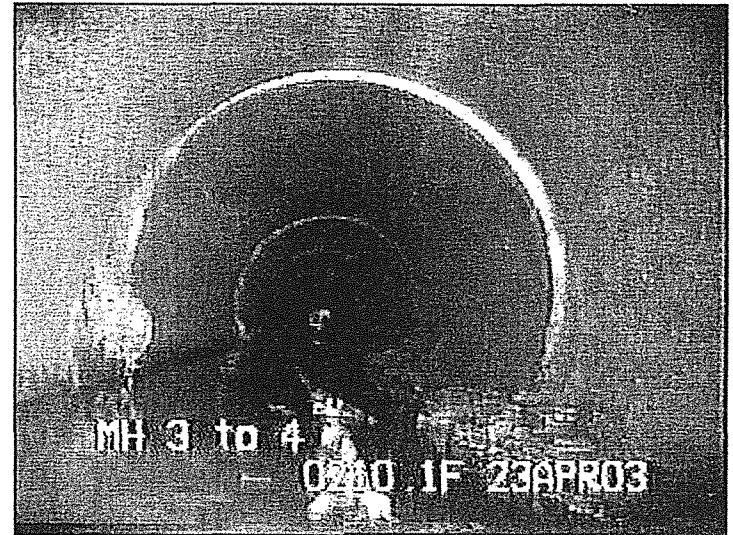
Photo Number 3.
 Distance 123.0 Ft.
 Code: JL (Joint
 Leaking).

Comments: WEEPING



Photo Number 4.
 Distance 210.0 Ft.
 Code: JL (Joint
 Leaking).

Comments: DRIPPING



TV Survey Picture for Gauthier & Sons Construction Inc.

<i>Works Order Number</i> 03107	<i>Surveyed on</i> 23-Apr-03	
<i>Road Name</i> North Jefferson Street	<i>Video cassette</i> 03-01	
<i>Place Name</i>	<i>Weather</i> Dry	
<i>Location code</i> xxx		
<i>From Manhole</i> MH 3	<i>To Manhole</i> MH 4	<i>Survey direction</i> Down

Setup Number 2 Photo Number 5 Counter 245 Ft



34.JPG

Pipe Details: *Year laid* *Shape* Circular *Size* 15ins
Material Concrete *Lining* xxx *Use* Storm

Observation MJM(Mineral Deposits at Jt (Med))

Comments

CCTV Report for Gauthier & Sons Construction Inc.

Works Order Number 03107		Video Cassette 03-01		Date Wednesday, April 23, 2003		Setup 3	
Operator Brett Healy		Van Reference					
Road Name North Jefferson Street				Weather Dry			
Place Name		ZIP Code					
Location type Roadway							
Surface Concrete							
Survey purpose xxx				From MH 4		Depth 6.00 Ft	
PIPE Use Storm Shape Circular Material Concrete Lining xxx				Total length 37.0 Ft		To MH 5	
				Size 15 by ins		Dirn Down	
				Pipe length 4.00 Ft		Pre-clean	
				Year laid			
General note CITY HAS PUMPED WATER LEVEL DOWN						Service Constructional	
Location note WISCONSIN PUBLIC SERVICE CORPORATION						Structural Miscellaneous	

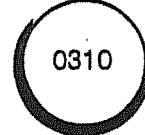
Video	Photo	Count	CD Code	Sev	From	To	Value	Remarks
00:31:12		0.0	ST					Start of Survey
		0.0	MH					MH 4 (1ST MH SOUTH OF UTILITY ST.)
		0.0	WL				05	WATER LEVEL PERCENT
	1	4.0	MJM					Mineral Deposits at Jt (Med)
		4.0	JL					Joint Leaking
								DRIPPING AT 4:00
00:34:46		37.0	MH					Manhole/Node
		37.0	FH					Finish of Survey
								MH 5 (MH AT UTILITY ST.)

Notes

MH 4 (1st manhole south of Utility St.)
Block construction / Good condition

MH 5 (Manhole at Utility St.)
Brick construction
Steps rusted out
Bricks are missing at bench and crown of 36" pipe connections

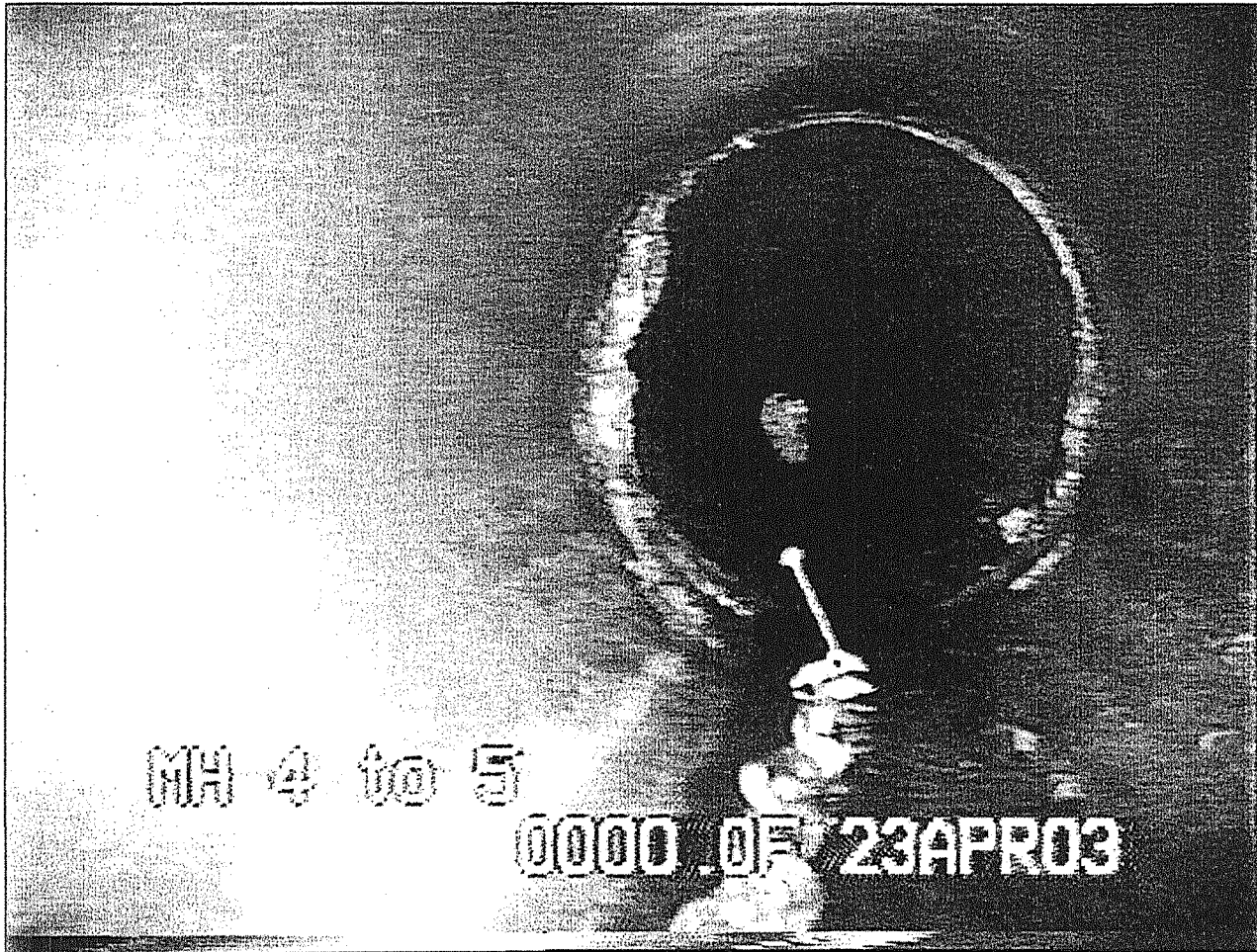
Clock references: Clock references are given clockwise ie from 10 o'clock to 2 o'clock = 1002. The upper part of a pipe is 0903 and the lower half is 0309. See illustration below



TV Survey Picture for Gauthier & Sons Construction Inc.

<i>Works Order Number</i> 03107	<i>Surveyed on</i> 23-Apr-03	
<i>Road Name</i> North Jefferson Street	<i>Video cassette</i> 03-01	<i>Weather</i> Dry
<i>Place Name</i>	<i>ZIP Code</i>	
<i>Location code</i> Roadway		
<i>From Manhole</i> MH 4	<i>To Manhole</i> MH 5	<i>Survey direction</i> Down

Setup Number 3 Photo Number 1 Counter 4 Ft



40.JPG

Pipe Details: *Year laid* *Shape* Circular *Size* 15ins
Material Concrete *Lining* xxx *Use* Storm

Observation MJM(Mineral Deposits at Jt (Med))

Comments

CCTV Report for Gauthier & Sons Construction Inc.

Works Order Number 03107	Video Cassette 03-01	Date Wednesday, April 23, 2003	Setup 4
Operator Brett Healy	Van Reference		
Road Name North Madison Street	Weather Dry		
Place Name	ZIP Code		
Location type Roadway			
Surface Concrete			
Survey purpose xxx		From MH 12	Depth 6.50 Ft
PIPE Use Storm		To MH 11	Depth 6.42 Ft
Shape Circular		Dirn Down	
Material Concrete		Pre-clean	
Lining xxx			
Total length 394.0 Ft			
Size 15 by ins			
Pipe length 6.00 Ft			
Year laid			
General note CITY HAS PUMPED WATER LEVEL DOWN			Service Constructional
Location note WISCONSIN PUBLIC SERVICE CORPORATION			Structural Miscellaneous

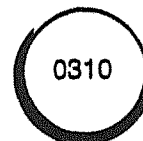
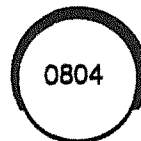
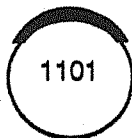
Video	Photo	Count	CD Code	Sev	From	To	Value	Remarks
00:34:46		0.0	ST					Start of Survey
		0.0	MH					MH 12 (MH AT ELM STREET)
		0.0	WL				05	WATER LEVEL PERCENT
		1.0	GO					CONCRETE IN FLOWLINE
		35.0	TTR					Tapped Tee Right
		53.0	JDS					Joint displaced small OFFSET .75"
		55.0	TTR					Tapped Tee Right
		63.0	FYL					Factory Wye Left
		382.0	TTR					Tapped Tee Right
00:05:55		394.0	MH					MH 11 (MH AT UTILITY STREET)
		394.0	FH					Finish of Survey

Notes

MH 12 (Manhole at Elm St.)
Precast construction / Good condition

MH 11 (Manhole at Utility St.)
Block construction
Top 3' is mix of block and brick
Manhole is deteriorating

Clock references: Clock references are given clockwise ie from 10 o'clock to 2 o'clock = 1002. The upper part of a pipe is 0903 and the lower half is 0309. See illustration below



CCTV Report for Gauthier & Sons Construction Inc.

Works Order Number 03107		Video Cassette 03-01		Date Wednesday, April 23, 2003		Setup 6	
Operator Brett Healy		Van Reference					
Road Name Jefferson Street				Weather Dry			
Place Name		ZIP Code					
Location type Roadway							
Surface Concrete							
Survey purpose xxx				From MH 6		Depth 6.92 Ft	
PIPE Use Storm Shape Circular Material Brick Lining xxx				Total length 53.0 Ft		To MH 7	
				Size 36 by ins		Depth 6.75 Ft	
				Pipe length 7.50 Ft		Dirn Down	
				Year laid		Pre-clean	
General note CITY PUMPED STORM SEWER DOWN						Service Constructional	
Location note WISCONSIN PUBLIC SERVICE CORPORATION						Structural Miscellaneous	

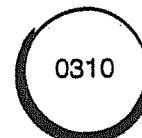
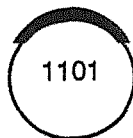
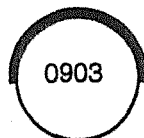
Video	Photo	Count	CD Code	Sev	From	To	Value	Remarks
00:58:43		0.0	ST					Start of Survey
		0.0	MH					MH 6 (1ST MH NORTH OF ELM ST.)
		0.0	WL				08	WATER LEVEL PERCENT
		23.0	TTL					Tapped Tee Left
		43.0	TTL					Tapped Tee Left
		43.0	TTR					Tapped Tee Right
		45.0	TTL					Tapped Tee Left
01:03:06		53.0	MH					MH 7 (2ND MH NORTH OF ELM ST.)
		53.0	FH					Finish of Survey

Notes

MH 6 (1st manhole north of Elm St.)
 Precast construction / Good condition
 Square vault
 No steps

MH 7 (2nd manhole north of Elm St.)
 Block construction
 Bricks missing around pipe

Clock references: Clock references are given clockwise ie from 10 o'clock to 2 o'clock = 1002. The upper part of a pipe is 0903 and the lower half is 0309. See illustration below

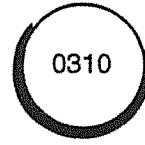
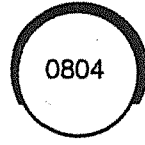
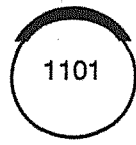
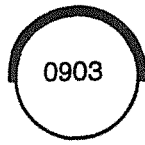


CCTV Report for Gauthier & Sons Construction Inc.

Works Order Number 03107		Video Cassette 03-01		Date Wednesday, April 23, 2003		Setup 7	
Operator Brett Healy		Van Reference					
Road Name Jefferson Street				Weather Dry			
Place Name		ZIP Code					
Location type Roadway							
Surface Concrete							
Survey purpose xxx				From MH 7		Depth 6.75 Ft	
PIPE Use Storm				Total length 283.0 Ft		To MH 5	
Shape Circular				Size 36 by ins		Depth 7.00 Ft	
Material Brick				Pipe length Ft		Dirn Down	
Lining xxx				Year laid		Pre-clean	
General note CITY PUMPED STORM SEWER DOWN						Service Constructional	
Location note WISCONSIN PUBLIC SERVICE CORPORATION						Structural Miscellaneous	

Video	Photo	Count	CD Code	Sev	From	To	Value	Remarks
01:03:06		0.0	ST					Start of Survey
		0.0	MH					Manhole/Node
		0.0	WL				08	Water level
		12.0	MDH					Mineral Deposits (Heavy)
		21.0	TTL					Tapped Tee Left
		21.0	TTR					Tapped Tee Right
		25.0	TTL					Tapped Tee Left
		25.0	TTR					Tapped Tee Right
		55.0	TTL					Tapped Tee Left
		55.0	TTR					Tapped Tee Right
		68.0	MDH				05	Mineral Deposits (Heavy)
	1	75.0	GO					General observation
		78.0	TTL					Tapped Tee Left
		78.0	TTR					Tapped Tee Right
		85.0	TTL					Tapped Tee Left
		85.0	TTR					Tapped Tee Right
		116.0	TTL					Tapped Tee Left
		116.0	TTR					Tapped Tee Right
		135.0	TTL					Tapped Tee Left
		139.0	TTL					Tapped Tee Left
		154.0	TTR					Tapped Tee Right
		168.0	MDH				09	Mineral Deposits (Heavy)
		179.0	MDH				09	Mineral Deposits (Heavy)
		186.0	TTL					Tapped Tee Left
		186.0	TTR					Tapped Tee Right
	2	209.0	MDH					Mineral Deposits (Heavy)
		213.0	TTL					Tapped Tee Left
		213.0	TTR					Tapped Tee Right

Clock references: Clock references are given clockwise ie from 10 o'clock to 2 o'clock = 1002. The upper part of a pipe is 0903 and the lower half is 0309. See illustration below



Video	Photo	Count	CD Code	Sev	From	To	Value	Remarks
	3	214.0	TTR	Tapped Tee Right				MINERAL DEPOSITS 100%
	4	217.0	TTL	Tapped Tee Left				MINERAL DEPOSITS 100%
		255.0	TTL	Tapped Tee Left				BULKHEADED
		255.0	TTR	Tapped Tee Right				BULKHEADED
01:21:51		283.0	MH	Manhole/Node				MH 5 (MH AT UTILITY ST.)
		283.0	FH	Finish of Survey				

Notes

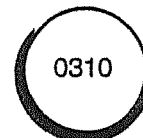
NOTE: Numbers on video are incorrect, should be MH 7 to MH 5

MH 7 (2nd manhole north of Elm St.)
 Block construction
 Bricks missing around pipe connections

MH 5 (Manhole at Utility St.)
 Brick construction
 Steps rusted out
 Bricks are missing at bench and crown of 36" pipe connections

*NOTE: AT 21' tapped tee connection to the right is collapsing

Clock references: Clock references are given clockwise ie from 10 o'clock to 2 o'clock = 1002. The upper part of a pipe is 0903 and the lower half is 0309. See illustration below



CCTV Survey pictures for Gauthier & Sons Construction Inc.

Works Order Number 03107	Surveyed on 23-Apr-03	Setup Number 7	Video cassette 03-01	Weather Dry
Road Name Jefferson Street	Place Name	ZIP Code		
Location Roadway	From Manhole MH 7	To Manhole MH 5	Survey direction Down	

Photo Number 1.
Distance 75.0 Ft.
Code: GO (General observation).

Comments: PIPE CROSSING AT 12:00



Photo Number 2.
Distance 209.0 Ft.
Code: MDH (Mineral Deposits (Heavy)).

Comments:



Photo Number 3.
Distance 214.0 Ft.
Code: TTR (Tapped Tee Right).

Comments: MINERAL DEPOSITS 100%



Photo Number 4.
Distance 217.0 Ft.
Code: TTL (Tapped Tee Left).

Comments: MINERAL DEPOSITS 100%



CCTV Report for Gauthier & Sons Construction Inc.

Works Order Number 03107	Video Cassette 03-01	Date Wednesday, April 23, 2003	Setup 8
Operator Brett Healy	Van Reference		
Road Name Jefferson Street	Weather Dry		
Place Name	ZIP Code		
Location type Roadway			
Surface Concrete			
Survey purpose xxx			From MH 5 Depth 7.00 Ft
PIPE Use Storm	Total length 27.0 Ft	To MH 8	Depth 6.67 Ft
Shape Circular	Size 36 by ins	Dirn Down	
Material Brick	Pipe length Ft	Pre-clean	
Lining xxx	Year laid		
General note		Service Constructional	
Location note WISCONSIN PUBLIC SERVICE CORPORATION		Structural Miscellaneous	

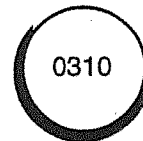
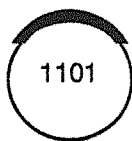
Video	Photo	Count	CD	Code	Sev	From	To	Value	Remarks
01:21:51		0.0	ST	Start of Survey					
		0.0	MH	Manhole/Node					MH 5 (MH AT CENTER OF UTILITY ST.)
		0.0	WL	Water level				10	WATER LEVEL PERCENT
01:23:28		27.0	MH	Manhole/Node					MH 8 (MH AT N SIDE OF UTILITY ST.)
		27.0	FH	Finish of Survey					

Notes

MH 5 (Mnahole at center of Utility St.)
 Brick construction
 Steps rusted out
 Bricks are missing at berh and at crown of 36" pipe connections

MH 8 (Manhole at north side of Utility St.)
 Block construction
 Deteriorating
 Mineral deposits

Clock references: Clock references are given clockwise ie from 10 o'clock to 2 o'clock = 1002. The upper part of a pipe is 0903 and the lower half is 0309. See Illustration below



CCTV Report for Gauthier & Sons Construction Inc.

Works Order Number 03107		Video Cassette 03-01	Date Wednesday, April 23, 2003	Setup 9
Operator Brett Healy		Van Reference		
Road Name Utility Street		Weather Dry		
Place Name		ZIP Code		
Location type Roadway				
Surface Concrete				
Survey purpose xxx				
PIPE Use Storm		Total length 202.0 Ft	From MH 8	Depth 6.67 Ft
Shape Circular		Size 36 by ins	To MH 10	Depth 7.92 Ft
Material Concrete		Pipe length 6.00 Ft	Dirn Down	
Lining xxx		Year laid	Pre-clean	
General note CITY HAS PUMPED DOWN STORM SEWER/LINE CONTAINS 1'			Service Constructional	
Location note WISCONSIN PUBLIC SERVICE CORPORATION			Structural Miscellaneous	

Video	Photo	Count	CD	Code	Sev	From	To	Value	Remarks
01:23:28		0.0	ST	Start of Survey					
		0.0	MH	Manhole/Node					MH 8 (MH AT JEFFERSON ST.)
		0.0	WL	Water level				10	WATER LEVEL PERCENT
		0.0	MJL	Mineral Deposits at Jt (Light)					LIGHT TO MODERATE
		65.0	GO	General observation					OIL PERCULATING THROUGH SLUDGE
		108.0	JL	Joint Leaking					DRIPPING
		123.0	JL	Joint Leaking					DRIPPING
		152.0	GO	General observation					1' OF SLUDGE
		185.0	JL	Joint Leaking					DRIPPING
01:33:17		202.0	MH	Manhole/Node					MH 10 (1ST MH EAST OF JEFFERSON)
		202.0	FH	Finish of Survey					

Notes

MH 8 (Manhole at Jefferson St.)

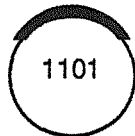
- Block construction
- Deteriorating
- Mineral deposits

MH 10 (1st manhole east of Jefferson St.)

- Block construction
- Light mineral deposits at water level

NOTE: Light to moderate mineral deposits at all joints

Clock references: Clock references are given clockwise ie from 10 o'clock to 2 o'clock = 1002. The upper part of a pipe is 0903 and the lower half is 0309. See Illustration below



CCTV Report for Gauthier & Sons Construction Inc.

Works Order Number 03107		Video Cassette 03-04	Date Friday, May 23, 2003	Setup 21
Operator Brett Healy		Van Reference		
Road Name Utility Street		Weather Dry		
Place Name		ZIP Code		
Location type Roadway				
Surface Concrete				
Survey purpose xxx				
PIPE Use Storm		Total length 210.0 Ft	From MH 10	Depth 6.67 Ft
Shape Circular		Size 36 by ins	To MH 11	Depth 6.42 Ft
Material Concrete		Pipe length 6.00 Ft	Dirn Down	
Lining xxx		Year laid	Pre-clean	
General note CITY HAS PUMPED WATER LEVEL DOWN			Service Constructional	
Location note WISCONSIN PUBLIC SERVICE CORPORATION			Structural	Miscellaneous

Video	Photo	Count	CD	Code	Sev	From	To	Value	Remarks
00:34:56		0.0	ST	Start of Survey					
		0.0	MH	Manhole/Node					MH 10 (1ST MH E OF JEFFERSON ST.)
		0.0	WL	Water level				45	WATER LEVEL PERCENT
		6.0	MJL	Mineral Deposits at Jt (Light)					TO 43'
		12.0	JL	Joint Leaking					DRIPPING
		43.0	MJH	Mineral Deposit at Jt (Heavy)					TO 61' / DRIPPING
		54.0	MJH	Mineral Deposit at Jt (Heavy)		01			
		61.0	MJM	Mineral Deposits at Jt (Med)					
		120.0	JL	Joint Leaking					DRIPPING
		163.0	JL	Joint Leaking					DRIPPING
00:46:58		210.0	MH	Manhole/Node					MH 11
		210.0	FH	Finish of Survey					

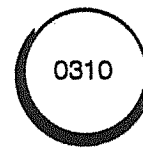
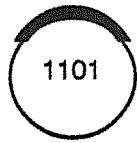
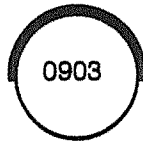
Notes

MH 10 (1st manhole east of Jefferson St.)
 Precast construction
 Manhole has been reconstructed

MH 11
 Block construction / Top 3" is a mix of block and brick
 Manhole is deteriorating

NOTE: Oil sheen on top of water throughout section
 Line contains over 1' of sediment

Clock references: Clock references are given clockwise ie from 10 o'clock to 2 o'clock = 1002. The upper part of a pipe is 0903 and the lower half is 0309. See illustration below



CCTV Report for Gauthier & Sons Construction Inc.

Works Order Number 03107	Video Cassette 03-04	Date Friday, May 23, 2003	Setup 22
Operator Brett Healy	Van Reference		
Road Name Elm Street	Weather Dry		
Place Name	ZIP Code		
Location type Roadway			
Surface Concrete			
Survey purpose xxx		From MH 18	Depth 6.75 Ft
PIPE Use Storm	Total length 65.0 Ft	To MH 12	Depth 6.50 Ft
Shape Circular	Size 12 by ins	Dirn Down	
Material Vitrified Clay Pipe	Pipe length 7.50 Ft	Pre-clean	
Lining xxx	Year laid		
General note PULLING CAMERA WITH JETTER NOZZLE		Service Constructional	
Location note WISCONSIN PUBLIC SERVICE CORPORATION		Structural Miscellaneous	

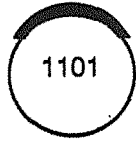
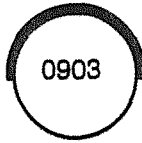
Video	Photo	Count	CD	Code	Sev	From	To	Value	Remarks
00:46:58		0.0	ST	Start of Survey					
		0.0	MH	Manhole/Node					MH 18 (1ST MH W OF MADISON ST.)
		0.0	WL	Water level				00	WATER LEVEL PERCENT
	1	11.0	FYR	Factory Wye Right					LOG STUCK ACROSS PIPE FROM SERVICE
		11.0	GO	General observation					SERVICE 50% FULL OF DEBRIS
		15.0	TTL	Tapped Tee Left					SERVICE 50% FULL OF DEBRIS
00:57:49		65.0	MH	Manhole/Node					MH 12 (MH AT MADISON ST.)
		65.0	FH	Finish of Survey					

Notes

MH 18 (1st Manhole west of Madison St.)
Precast construction / Good condition

MH 12 (Manhole at Madison St.)
Precast construction / Good condition

Clock references: Clock references are given clockwise ie from 10 o'clock to 2 o'clock = 1002. The upper part of a pipe is 0903 and the lower half is 0309. See illustration below



TV Survey Picture for Gauthier & Sons Construction Inc.

Works Order Number 03107		Surveyed on 23-May-03	
Road Name Elm Street		Video cassette 03-04	
Place Name	ZIP Code	Weather Dry	
Location code Roadway			
From Manhole MH 18	To Manhole MH 12	Survey direction Down	

Setup Number 22 **Photo Number** 1 **Counter** 11 Ft



215.JPG

Pipe Details:	Year laid	Shape Circular	Size 12ins
	Material Vitrified Clay Pipe	Lining xxx	Use Storm
Observation	FYR(Factory Wye Right)		
Comments	LOG STUCK ACROSS PIPE FROM SERVICE		

APPENDIX B

**ACKNOWLEDGEMENT OF AFFECTED ROW'S
ON MASTER PLAN**

Appendix B

Acknowledgement of Affected ROW's on Master Plan

The City of Green Bay acknowledges the potentially affected right-of-ways on the City's Master Plan, including the portions of Elm Street, Jefferson Street, Madison Street and Utility Street surrounding the Wisconsin Public Service Corporation former Manufactured Gas Plant (MGP) site, as shown on Figure 2. The City also acknowledges the other notifications included in the February 9, 2004 letter.

Print Name and Title

Signature and Date