

Board of Public Utilities

Regular Meeting Agenda

Monday, July 30, 2012

4:00 p.m., DPW Conference Room, 1199 8th Avenue



City of South Haven

1. Call to Order
2. Roll Call
3. Approval of Agenda
4. Acceptance of Minutes for the Record – June 25, 2012
5. Interested Citizens in the Audience Will be Heard on Items Not on the Agenda

REPORTS

6. **Cost of Energy from Indiana-Michigan Power Company (AEP)**
 - A. 2012 Billings – All Charges
 - B. 2011 Billings – All Charges
7. **Financial Reports**
 - A. Water Fund CuFt Comparisons
 - B. Water Fund Financial Statement
 - C. Sewer Fund Financial Statement
 - D. Electric Fund KWH Comparisons
 - E. Electric Fund Financial Statement
8. **Indian Grove Infrastructure Project**
 - A. Sewer Study Progress Report
9. **Unresolved Issues Report**
10. **Electric Outage Report, 2nd Quarter 2012**

NEW BUSINESS

11. **Board will consider a written request from Mikkel Hansen concerning the utility bill meter tampering charge.**
 - A. Original Request
 - B. Transcribed Request

12. Board will be requested to review the hydrant meter sales policy.

13. Next meeting is scheduled for Monday, August 27, 2012 at 4:00 pm in the DPW Conference Room, 1199 8th Avenue, South Haven, Michigan.

14. Director's Comments

15. Board Member Comments

16. Adjourn

RESPECTFULLY SUBMITTED,

Roger Huff, P.E.
Public Works Director

South Haven Department of Public Works is Barrier-free and the City of South Haven will provide the necessary reasonable auxiliary aids and services for persons with disabilities, such as signers for the hearing impaired and audio tapes of printed materials being considered at the meeting to individuals with disabilities at the meeting upon seven (7) days notice to the South Haven City Clerk. Individuals with disabilities requiring services should contact the City Clerk by writing or calling South Haven City Hall at (269) 637-0750.

CITY OF SOUTH HAVEN
 Cost of Electric Energy from Indiana-Michigan Power Company (AEP)
 2012

Date	ACTUAL				BILLING			COST					PJM Open Access Transmission Tariff						Total Cost	cts/ KWHR
	KW Demand	KVAR Demand	KVA	Power Factor	KW Demand	KVAR Demand	KWHR	\$ KW Demand	\$ KWHR	\$ Fuel Charge	\$ Fuel Adjust	Actual Fuel True-up	\$ Sch TA \$ KWHRS	\$ Network	RTO Start-up \$	Other	Credits	Total PJM		
Main	11,992	1,726	12,116	0.9898	11,992	1,726	7,258,601	\$175,538.81	\$88,450.41											
Welder	309	328	451	0.6861	309	328	153,255	\$4,526.07	\$1,867.50											
Phoenix	7,708	874	7,757	0.9936	7,707	874	4,477,882	\$112,822.34	\$54,565.67											
Welder	38	62	73	0.5264	38	62	23,707	\$559.17	\$288.88											
Jan-12	20,047	2,990	20,269	0.9891	20,047	2,990	11,913,444	\$293,446.39	\$145,172.46	\$195,737.44	(\$1,504.66)	\$18,840.08	\$1,130.95	\$81,705.56	\$274.86	\$7,764.31	(\$1,605.84)	\$89,269.84	\$740,961.55	6.220
Main	11,246	1,489	11,344	0.9913	11,246	1,489	6,660,702	\$164,619.02	\$81,164.65											
Welder	356	420	550	0.6466	356	420	170,777	\$5,208.20	\$2,081.02											
Phoenix	7,083	787	7,127	0.9939	7,083	787	4,106,471	\$103,685.35	\$50,039.81											
Welder	10	30	31	0.3085	10	30	6,689	\$140.52	\$81.51											
Feb-12	18,695	2,726	18,892	0.9895	18,695	2,726	10,944,640	\$273,653.09	\$133,367.00	\$179,820.02	(\$35,803.12)	(\$36,698.09)	\$1,038.98	\$76,434.23	\$257.13	\$7,764.54	(\$1,303.19)	\$84,191.69	\$598,530.59	5.469
Main	11,229	2,433	11,490	0.9773	11,229	2,433	6,659,854	\$164,369.52	\$81,154.32											
Welder	245	291	380	0.6442	245	291	180,979	\$3,581.92	\$2,205.34											
Phoenix	7,798	2,001	8,050	0.9686	7,798	2,001	4,202,080	\$114,142.73	\$51,204.86											
Welder	11	34	36	0.2995	11	34	7,398	\$158.09	\$90.15											
Mar-12	19,282	4,759	19,861	0.9709	19,282	4,759	11,050,311	\$282,252.26	\$134,654.67	\$181,556.19	(\$16,811.90)	\$3,379.59	\$1,049.01	\$81,705.56	\$274.86	\$7,768.31	(\$1,217.13)	\$89,580.61	\$674,611.42	6.105
Main	10,627	1,593	10,746	0.9890	10,627	1,593	6,305,565	\$155,559.49	\$76,837.09											
Welder	332	293	443	0.7501	332	293	147,837	\$4,859.82	\$1,801.48											
Phoenix	6,679	902	6,739	0.9910	6,679	902	3,935,313	\$97,765.55	\$47,954.14											
Welder	9	32	34	0.2802	9	32	7,231	\$137.60	\$88.11											
Apr-12	17,647	2,820	17,871	0.9875	17,647	2,820	10,395,945	\$258,322.45	\$126,680.83	\$170,804.99	(\$14,733.10)	\$40,292.41	\$986.89	\$79,069.90	\$265.99	\$8,032.02	(\$1,177.43)	\$87,177.37	\$668,544.95	6.431
Main	14,868	3,529	15,281	0.9730	14,868	3,529	6,982,457	\$217,637.42	\$85,085.43											
Welder	9	22	23	0.3633	9	22	161,210	\$124.42	\$1,964.44											
Phoenix	11,010	3,754	11,633	0.9465	11,010	3,754	4,593,576	\$161,166.94	\$55,975.48											
Welder	9	23	25	0.3638	9	23	7,021	\$133.21	\$85.56											
May-12	25,896	7,328	26,913	0.9622	25,896	7,328	11,744,265	\$379,061.99	\$143,110.91	\$192,957.82	\$12,775.38	\$48,832.40	\$1,114.88	\$81,705.56	\$274.86	\$7,731.13	(\$1,641.24)	\$89,185.19	\$865,923.69	7.373
Main	16,941	5,210	17,724	0.9558	16,941	5,210	7,846,934	\$238,261.81	\$95,175.47											
Welder	295	108	314	0.9388	295	108	153,300	\$4,148.88	\$1,859.38											
Phoenix	12,351	4,745	13,231	0.9335	12,351	4,745	5,260,728	\$173,700.24	\$63,807.37											
Welder	9	24	25	0.3571	9	24	6,972	\$127.98	\$84.56											
Jun-12	29,596	10,087	31,268	0.9465	29,596	10,087	13,267,935	\$416,238.92	\$160,926.78	\$201,108.72	\$48,449.19	(\$309,170.24)	\$1,259.53	\$79,069.90	\$265.99	\$9,839.06	(\$1,359.24)	\$89,075.24	\$606,628.61	4.572

CITY OF SOUTH HAVEN
WATER FUND
CuFt COMPARISONS
ROLLING TWELVE MONTHS

		GALLONS PUMPED TO MAINS	CuFt PUMPED TO MAINS	CuFt PLANT TAP UNBILLED	CuFt WATER QUALITY FLUSHING	CuFt BILLED	PERCENTAGE BILLED PLUS PLANT TAP TO PUMPED TO MAINS (ROLLING 12 MOS)	PERCENTAGE BILLED PLUS PLANT TAP TO PUMPED TO MAINS CURRENT MONTH
FISCAL 2010								
July	2009	78,939,000	10,553,342	75,668	20,143	7,640,021	85.93%	73.11%
August	2009	72,869,000	9,741,845	68,725	10,738	9,157,899	85.95%	94.71%
September	2009	53,486,000	7,150,535	66,779	26,125	8,338,575	85.02%	117.55%
October	2009	34,137,000	4,563,770	46,215	18,305	5,202,372	85.62%	115.01%
November	2009	29,191,000	3,902,540	50,692	0	3,304,098	85.91%	85.96%
December	2009	28,613,000	3,825,267	52,385	12,411	3,223,884	85.97%	85.65%
January	2010	29,100,000	3,890,374	59,993	41,792	3,134,450	86.37%	82.11%
February	2010	26,835,000	3,587,567	58,594	97,286	2,921,327	86.54%	83.06%
March	2010	29,220,000	3,906,417	58,595	5,348	3,191,192	88.20%	83.19%
April	2010	32,761,000	4,379,813	69,897	7,888	3,372,363	89.19%	78.59%
May	2010	45,315,000	6,058,155	68,444	6,684	4,408,986	89.16%	72.78%
June	2010	47,720,000	6,379,679	71,558	0	5,802,959	89.33%	90.96%
		<u>508,186,000</u>	<u>67,939,305</u>	<u>747,545</u>	<u>246,719</u>	<u>59,698,126</u>		
FISCAL 2011								
July	2010	71,789,000	9,597,460	76,067	26,738	7,160,179	89.90%	75.40%
August	2010	70,411,000	9,413,235	79,151	17,647	8,560,179	89.47%	91.78%
September	2010	53,052,000	7,092,513	82,706	246,830	7,497,785	88.65%	106.88%
October	2010	40,104,000	5,361,497	75,128	213,904	5,242,069	87.99%	99.17%
November	2010	30,513,000	4,079,278	82,706	213,904	3,856,631	88.94%	96.57%
December	2010	34,709,000	4,640,241	76,248	213,904	3,452,281	88.54%	76.04%
January	2011	32,649,000	4,364,840	70,210	213,904	3,232,165	88.34%	75.66%
February	2011	33,847,000	4,525,000	66,376	213,904	3,209,045	87.74%	72.38%
March	2011	35,054,000	4,686,364	74,020	213,904	3,124,071	87.00%	68.24%
April	2011	30,789,000	4,116,176	76,855	213,904	2,952,560	87.03%	73.60%
May	2011	42,942,000	5,740,909	54,069	202,504	3,571,271	86.49%	62.21%
June	2011	54,884,000	7,337,433	77,139	119,736	5,758,969	85.43%	78.49%
		<u>530,743,000</u>	<u>70,954,947</u>	<u>890,676</u>	<u>2,110,782</u>	<u>57,617,205</u>		
FISCAL 2012								
July	2011	68,313,000	9,132,754	0	190,312	7,441,256	85.55%	81.48%
August	2011	59,907,000	8,008,957	103,610	244,928	7,402,180	84.90%	93.72%
September	2011	50,823,000	6,794,519	19,658	231,936	6,658,175	85.02%	98.28%
October	2011	38,457,000	5,141,310	23,888	231,936	4,862,072	85.07%	95.03%
November	2011	30,875,000	4,127,674	4,273	231,936	3,573,435	85.44%	86.68%
December	2011	30,441,000	4,069,652	17,174	231,936	3,191,493	85.57%	78.84%
January	2012	32,467,000	4,340,508	14,319	68,972	3,074,589	85.44%	71.16%
February	2012	29,495,000	3,943,182	23,262	68,972	3,219,167	85.84%	82.23%
March	2012	30,150,000	4,030,749	38,320	65,764	3,450,952	86.13%	86.57%
April	2012	32,927,000	4,402,005	31,678	68,972	3,378,738	86.74%	77.47%
May	2012	50,646,000	6,770,856	37,087	78,956	4,537,251	86.12%	67.01%
June	2012	72,150,000	9,645,722	41,402	144,360	6,461,594	84.46%	66.99%
		<u>526,651,000</u>	<u>70,407,888</u>	<u>354,672</u>	<u>1,858,980</u>	<u>57,250,902</u>		
Prior Year-to-Date		530,743,000	70,954,947	890,676	2,110,782	57,617,205		
Two Years Prior		508,186,000	67,939,305	747,545	246,719	59,698,126		

City of South Haven
Water Fund - Fund 591
For the period ended June 30, 2012

compares
Col 6 & 7

<i>Revenues:</i>	<i>Month Actual</i>	<i>Monthly Budget</i>	<i>Prior year MTD</i>	<i>MTD Variance to Budget</i>	<i>MTD Variance to Prior Year</i>	<i>YTD Actual</i>	<i>YTD Budget</i>	<i>Prior YTD Actual</i>	<i>Variance to Budget</i>	<i>Variance to Prior Year</i>	<i>2011-12 Adpoted Budget</i>	<i>% of Budget</i>
Sales	\$ 364,521	\$ 232,928	\$ 339,238	\$ 131,593	\$ 25,282	\$ 2,941,883	\$ 2,795,135	\$ 2,821,550	\$ 146,748	\$ 120,333	\$ 2,795,135	105%
Charges for Service	13,680	5,833	2,724	7,846	10,955	62,718	70,000	93,868	(7,282)	(31,150)	70,000	90%
Interest Income	231	208	186	23	45	2,077	2,500	3,193	(423)	(1,116)	2,500	83%
Special Assessment Revenue	-	1,417	(60,067)	(1,417)	60,067	83,120	17,000	17,165	66,120	65,955	17,000	489%
Other Revenue	3,591	2,500	(2,855)	1,091	6,446	38,757	30,000	40,545	8,757	(1,788)	30,000	129%
Total Revenues	\$ 382,023	\$ 242,886	\$ 279,227	\$ 139,137	\$ 102,796	\$ 3,128,555	\$ 2,914,635	\$ 2,976,320	\$ 213,920	\$ 152,235	\$ 2,914,635	

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<i>Expenses:</i>	<i>Month Actual</i>	<i>Monthly Budget</i>	<i>Prior year MTD</i>	<i>MTD Variance to Budget</i>	<i>MTD Variance to Prior Year</i>	<i>YTD Actual</i>	<i>YTD Budget</i>	<i>Prior YTD Actual</i>	<i>Variance to Budget</i>	<i>Variance to Prior Year</i>	<i>2011-12 Adpoted Budget</i>	<i>% of Budget</i>
Operating Expenses	\$ 94,889	\$ 104,583	\$ 75,101	\$ (9,693)	\$ 19,788	\$ 1,205,133	\$ 1,254,994	\$ 1,378,579	\$ (49,861)	\$ (173,446)	\$ 1,254,994	96%
Property Tax Equivalents	7,103	7,103	6,753	0	350	85,238	85,238	81,037	-	4,201	85,238	100%
Capital Outlay	190,324	18,160	(73,117)	172,164	263,441	192,693	217,924	(1,341)	(25,231)	194,034	217,924	88%
Debt Service	-	5,572	(21,265)	(5,572)	21,265	66,590	66,866	41,245	(276)	25,345	66,866	100%
Transfers Out	(190,324)	107,301	107,965	(297,625)	(298,289)	1,297,490	1,287,608	1,138,355	9,882	159,135	1,287,608	101%
Depreciation	47,917	47,917	16,307	-	31,610	575,000	575,000	195,684	-	379,316	575,000	100%
Administrative Expenses	(3,354)	19,074	10,997	(22,428)	(14,352)	187,598	228,888	227,610	(41,290)	(40,012)	228,888	82%
Total Expenses	\$ 146,555	\$ 309,710	\$ 122,741	\$ (163,155)	\$ 23,814	\$ 3,609,743	\$ 3,716,518	\$ 3,061,169	\$ (106,775)	\$ 548,574	\$ 3,716,518	

Net Fund Change	\$ 235,468	\$ (66,824)	\$ 156,485	\$ 302,291	\$ 78,982	\$ (481,187)	\$ (801,883)	\$ (84,848)	\$ 320,696	\$ (396,339)	\$ (801,883)	
						\$ 93,813	no depr				\$ (226,883)	no depr

City of South Haven
Sewer Fund - Fund 592
For the period ended June 30, 2012

compares
Col 6 & 7

<i>Revenues:</i>	<i>Month Actual</i>	<i>Monthly Budget</i>	<i>Prior year MTD</i>	<i>MTD Variance to Budget</i>	<i>MTD Variance to Prior Year</i>	<i>YTD Actual</i>	<i>YTD Budget</i>	<i>Prior YTD Actual</i>	<i>Variance to Budget</i>	<i>Variance to Prior Year</i>	<i>2011-12 Adpoted Budget</i>	<i>% of Budget</i>
Sales	\$ 247,707	\$ 181,716	\$ 185,136	\$ 65,991	\$ 62,571	\$ 2,082,561	\$ 2,180,587	\$ 1,974,217	\$ (98,026)	\$ 108,344	\$ 2,180,587	96%
IPP Revenues	1,509	6,608	833	(5,100)	675	79,857	79,300	80,993	557	(1,136)	79,300	101%
Interest Income	(613)	625	3,556	(1,238)	(4,169)	3,483	7,500	7,935	(4,017)	(4,452)	7,500	46%
Special Assessment Revenue	-	1,833	(78,687)	(1,833)	78,687	119,296	22,000	20,842	97,296	98,454	22,000	542%
Other Revenue	388	292	12,264	96	(11,877)	92,220	3,500	26,621	88,720	65,598	3,500	2635%
Total Revenues	\$ 248,990	\$ 191,074	\$ 123,103	\$ 57,916	\$ 125,888	\$ 2,377,417	\$ 2,292,887	\$ 2,110,609	\$ 84,530	\$ 266,809	\$ 2,292,887	

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<i>Expenses</i>	<i>Month Actual</i>	<i>Monthly Budget</i>	<i>Prior year MTD</i>	<i>MTD Variance to Budget</i>	<i>MTD Variance to Prior Year</i>	<i>YTD Actual</i>	<i>YTD Budget</i>	<i>Prior YTD Actual</i>	<i>Variance to Budget</i>	<i>Variance to Prior Year</i>	<i>2011-12 Adpoted Budget</i>	<i>% of Budget</i>
Operating Expenses	\$ 131,506	\$ 110,832	\$ (39,376)	\$ 20,674	\$ 170,882	\$ 1,286,449	\$ 1,329,986	\$ 1,087,936	\$ (43,537)	\$ 198,513	\$ 1,329,986	97%
Property Tax Equivalents	7,317	7,317	7,307	0	9	87,800	87,800	87,688	-	112	87,800	100%
Capital Outlay	431,254	39,882	(95,925)	391,372	527,179	454,017	478,583	(1,524)	(24,566)	455,541	478,583	95%
Transfers Out	(277,909)	20,542	227	(298,451)	(278,136)	269,210	246,500	268,182	22,710	1,028	246,500	109%
Depreciation	22,083	22,083	20,379	-	1,705	265,000	265,000	244,545	-	20,455	265,000	100%
Administrative Expenses	3,966	20,637	14,771	(16,671)	(10,805)	272,926	247,649	229,070	25,277	43,856	247,649	110%
Total Expenses	\$ 318,217	\$ 221,293	\$ (92,617)	\$ 96,924	\$ 410,834	\$ 2,635,402	\$ 2,655,518	\$ 1,915,896	\$ (20,116)	\$ 719,506	\$ 2,655,518	

Net Fund Change	\$ (69,227)	\$ (30,219)	\$ 215,719	\$ (39,008)	\$ (284,946)	\$ (257,985)	\$ (362,631)	\$ 194,712	\$ 104,646	\$ (452,698)	\$ (362,631)
						\$ 7,015	no depr			\$ (97,631)	no depr

CITY OF SOUTH HAVEN
ELECTRIC FUND
KWH COMPARISONS
ROLLING TWELVE MONTHS

		KWH PURCHASED	KWH BILLED	KWH STREET LTS	STREET LTS 12 MO AVE.	TOTAL KWH BILLED AND STREET LTS	PERCENTAGE BILLED AND STREET LTS TO PURCHASED (ROLLING 12 MOS)	PERCENTAGE BILLED AND STREET LTS TO PURCHASED CURRENT MONTH
FISCAL 2010								
July	2009	12,389,873	12,357,337	36,659	48,993	12,393,996	96.01%	100.03%
August	2009	13,462,849	11,700,479	40,291	48,886	11,740,770	94.88%	87.21%
September	2009	11,004,137	11,863,780	46,615	48,907	11,910,395	95.21%	108.24%
October	2009	10,680,145	10,109,349	52,986	48,855	10,162,335	94.88%	95.15%
November	2009	10,212,003	8,933,607	57,051	49,015	8,990,658	94.78%	88.04%
December	2009	11,608,119	9,974,930	64,601	49,139	10,039,531	94.95%	86.49%
January	2010	11,621,521	11,465,048	59,614	49,050	11,524,662	95.50%	99.17%
February	2010	10,277,581	10,045,706	54,292	49,106	10,099,998	94.89%	98.27%
March	2010	10,530,705	9,668,123	53,233	49,185	9,721,356	94.82%	92.31%
April	2010	9,759,317	10,006,144	45,897	49,139	10,052,041	95.01%	103.00%
May	2010	11,100,098	9,158,723	42,230	49,194	9,200,953	94.39%	82.89%
June	2010	12,389,048	11,449,853	37,874	49,279	11,487,727	94.29%	92.72%
		<u>135,035,396</u>	<u>126,733,079</u>	<u>591,343</u>		<u>127,324,422</u>		
FISCAL 2011								
July	2010	16,257,328	13,438,394	37,192	49,323	13,475,586	92.44%	82.89%
August	2010	15,694,344	14,821,889	41,506	49,424	14,863,395	93.19%	94.71%
September	2010	11,066,633	12,074,098	47,613	49,507	12,121,711	93.30%	109.53%
October	2010	10,969,854	10,132,196	54,196	49,608	10,186,392	93.13%	92.86%
November	2010	10,510,315	10,391,582	61,923	50,014	10,453,505	93.96%	99.46%
December	2010	10,683,209	10,002,716	67,037	50,217	10,069,753	94.60%	94.26%
January	2011	11,953,507	11,068,303	64,924	50,660	11,133,227	94.10%	93.14%
February	2011	10,550,180	11,250,292	61,029	51,221	11,311,321	94.78%	107.21%
March	2011	11,124,090	9,519,380	57,044	51,539	9,576,424	94.28%	86.09%
April	2011	10,242,312	10,338,916	48,737	51,775	10,387,653	94.20%	101.42%
May	2011	11,028,132	9,957,130	44,762	51,986	10,001,892	94.81%	90.69%
June	2011	12,229,714	12,173,212	38,326	52,024	12,211,538	95.42%	99.85%
		<u>142,309,618</u>	<u>135,168,108</u>	<u>624,289</u>		<u>135,792,397</u>		
FISCAL 2012								
July	2011	15,964,582	12,755,514	37,013	52,009	12,792,527	95.31%	80.13%
August	2011	14,632,086	15,136,722	42,500	52,092	15,179,222	95.19%	103.74%
September	2011	11,307,801	12,319,850	47,553	52,087	12,367,403	95.87%	109.37%
October	2011	10,969,854	9,722,952	56,849	52,308	9,779,801	95.46%	89.15%
November	2011	10,739,972	10,221,480	61,585	52,280	10,283,065	95.52%	95.75%
December	2011	11,617,747	9,798,051	68,085	101,307	9,866,136	95.17%	84.92%
January	2012	11,913,417	11,146,773	65,812	52,441	11,212,585	94.66%	94.12%
February	2012	10,944,615	10,940,177	58,568	52,236	10,998,745	95.24%	100.49%
March	2012	11,050,285	10,825,582	58,568	52,363	10,884,150	95.14%	98.50%
April	2012	10,395,921	10,227,215	47,347	52,247	10,274,562	95.46%	98.83%
May	2012	11,744,237	10,681,872	44,415	52,218	10,726,287	95.09%	91.33%
June	2012	13,267,935	10,895,095	38,072	52,197	10,933,167	93.60%	82.40%
		<u>144,548,453</u>	<u>134,671,283</u>	<u>626,367</u>		<u>135,297,650</u>		
Prior Year-to-date		142,309,618	135,168,108	624,289		135,792,397		
Two Years Prior		135,035,396	126,733,079	591,343		127,324,422		

City of South Haven
Electric Fund - Fund 582
For the period ended June 30, 2012

compares
Col 6 & 7

Revenues:	Month Actual	Monthly Budget	Prior year MTD	MTD Variance to		YTD Actual	YTD Budget	Prior YTD Actual	Variance to Budget	Variance to Prior		2011-12 Adpoted Budget	% of Budget
				Budget	Prior Year					Year	Year		
Electric Sales	\$ 1,162,108	\$ 1,130,689	\$ 966,936	\$ 31,419	\$ 195,172	\$ 13,540,081	\$ 13,568,265	\$ 13,394,789	\$ (28,184)	\$ 145,292	\$ 13,568,265	100%	
Charges for Service	\$ 22,267	\$ 8,333	\$ 34,377	\$ 13,934	\$ (12,110)	\$ 181,140	\$ 100,000	\$ 137,900	\$ 81,140	\$ 43,240	\$ 100,000	181%	
Interest Income	\$ (3,572)	\$ 2,917	\$ 30,994	\$ (6,489)	\$ (34,566)	\$ 39,752	\$ 35,000	\$ 52,891	\$ 4,752	\$ (13,140)	\$ 35,000	114%	
Other Revenue	\$ (5,468)	\$ 2,083	\$ (23,149)	\$ (7,551)	\$ 17,681	\$ 37,535	\$ 25,000	\$ 48,132	\$ 12,535	\$ (10,597)	\$ 25,000	150%	
Transfers In	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	
Total Revenues	\$ 1,175,335	\$ 1,144,022	\$ 1,009,157	\$ 31,313	\$ 166,178	\$ 13,798,508	\$ 13,728,265	\$ 13,633,712	\$ 70,243	\$ 164,796	\$ 13,728,265		
	1	2	3	4	5	6	7	8	9	10	11		
Expenses	Month Actual	Monthly Budget	Prior year MTD	MTD Variance to		YTD Actual	YTD Budget	Prior YTD Actual	Variance to Budget	Variance to Prior		2011-12 Adpoted Budget	% of Budget
				Budget	Prior Year					Year	Year		
Purchased Power	\$ 606,629	\$ 758,333	\$ 871,567	\$ (151,705)	\$ (264,938)	\$ 9,086,858	\$ 9,100,000	\$ 9,043,775	\$ (13,142)	\$ 43,083	\$ 9,100,000	100%	
Other Operating Expenses	\$ 46,645	\$ 143,527	\$ 47,327	\$ (96,882)	\$ (682)	\$ 1,804,738	\$ 1,722,326	\$ 1,568,076	\$ 82,412	\$ 236,662	\$ 1,722,326	105%	
Property Tax Equivalents	\$ 52,312	\$ 52,312	\$ 51,167	\$ (0)	\$ 1,146	\$ 627,748	\$ 627,748	\$ 614,000	\$ -	\$ 13,748	\$ 627,748	100%	
Capital Outlay	\$ 105,148	\$ 51,213	\$ (114,475)	\$ 53,934	\$ 219,622	\$ 634,623	\$ 614,558	\$ 51,226	\$ 20,065	\$ 583,397	\$ 614,558	103%	
Transfers Out	\$ 13,688	\$ 14,759	\$ -	\$ (1,070)	\$ 13,688	\$ 167,456	\$ 177,102	\$ 186,237	\$ (9,646)	\$ (18,781)	\$ 177,102	95%	
Depreciation	\$ 40,500	\$ 40,500	\$ 39,510	\$ -	\$ 990	\$ 486,000	\$ 486,000	\$ 474,124	\$ -	\$ 11,876	\$ 486,000	100%	
Administrative Expenses	\$ 36,873	\$ 70,677	\$ 40,878	\$ (33,804)	\$ (4,005)	\$ 835,706	\$ 848,125	\$ 704,908	\$ (12,419)	\$ 130,798	\$ 848,125	99%	
Total Expenses	\$ 901,795	\$ 1,131,322	\$ 418,750	\$ (229,527)	\$ 483,045	\$ 13,643,129	\$ 13,575,859	\$ 12,673,395	\$ 67,270	\$ 969,733	\$ 13,575,859		
 Net Fund Change	 \$ 273,540	 \$ 12,701	 \$ 590,407	 \$ 260,840	 \$ (316,867)	 \$ 155,379	 \$ 152,406	 \$ 960,317	 \$ 2,973	 \$ (804,937)	 \$ 152,406		

MEMORANDUM

DATE: July 9, 2012

TO: Brian Dissette, City of South Haven
Roger Huff, City of South Haven

FROM: Christopher J. Cook, PE

CC: Cindy Clendenon, MDEQ
Marcus Tironi, MDEQ
Timothy R. Drews, P.E., PTOE, Abonmarche
Tony McGhee, Abonmarche
Daniel A. Dombos, PE, Abonmarche

RE: **City of South Haven – Sewer Study Progress Report**

The following will summarize our progress to-date on the City of South Haven Sewer Study:

UTILITY MAPPING

This task has entailed compiling City record drawings, maps and field data into a comprehensive sanitary sewer system map with defined sewer districts. We have converted city GIS information into AutoCAD for presentation, modeling, field investigation and study purposes. Progress to-date has been good, and we estimate that we are 95% complete with this task. We have been using the map to determine the best general locations for field investigation and metering through discussions with City staff.

We have recently been working with city staff on the mapping portion of the work since they also have been preparing map updates with additional sources of data. We have updated our maps with this information and forwarded to city staff for review.

Upcoming work for this task will include finalizing the map with the information that we have available. Final completion is not expected until after field work is complete but the maps are available for use in their current state at this time.



FIELD INVESTIGATION AND DATA REVIEW

No new progress on this task as much of this work was completed as part of the first phase of smoke testing and to determine the specific locations of meters to be deployed in the field.

This task includes further investigation of locations that did not have adequate information available in the mapping task. For example, we field located the manholes in the ravine interceptor areas and were able to determine inverts, pipe sizes and condition of structures. All of this information will be valuable in the modeling process and as we study the system further. We estimate that we are approximately 70% complete with this task.

Upcoming work for this task will include gathering historical data on water and sanitary system usage and information from the WWTP, Dave Mulac. We will also conduct further investigation and data collection as issues arise.

COMPUTER MODELING AND FLOW MONITORING

This task continues to provide flow meters at strategic locations in the system to be used for calibration of the sewer model, and computer modeling of the sewer system to identify Infiltration/Inflow and cost effective solutions. As the mapping exercise progressed, we were able to better determine the optimal locations for flow monitoring. The plan for metering was reviewed and accepted by Marcus Tironi, from MDEQ. Sixteen (16) key locations have been determined for the monitoring exercise in addition to monitoring flow meters at each lift station. Five of these locations are at major input points from the Townships to help us assess their impact on the City's system. Three (3) meters will remain deployed in the major interceptor areas for at least six months through August 2012. Four (4) meters in sub-areas were placed through the month of May and we are analyzing the data from those meters. Those four meters were relocated to other areas of the system in June(at the major township input points) to gather information over the next few months.

Upcoming work includes monitoring the next round of flow meter information. At this time, we are roughly 50% complete with the task of metering and computer modeling has been setup with preliminary data.

SMOKE TESTING

We completed smoke testing of several key areas in the south-central portion of the City in June. We reviewed the metering results to determine the best area of focus with



the smoke testing. The area chosen is mostly residential. It includes the southern portion of the City including the Indian Grove area to the west, Kalamazoo Street and tributaries, and the eastern central portion of the city. All of these areas flow into the ravine interceptors. We prepared the residents for the smoke testing exercise with an outreach campaign including city commission update and resultant press coverage, door hangers, and notices.

SEWER TELEVISIONING

No progress to date as this work will be determined based upon the flow monitoring and smoke testing.

SRF PROJECT PLAN

We have commenced with the preliminary front end work over the first couple sections in the report and are roughly 20% complete with this task. We have started to make more progress on the report, working on the project background, figures/charts/census data and historical flow data.



City of South Haven

Agenda Item # 9

Unresolved Issues

New items shown in **bold** text.

Completed items shown with single ~~strike through~~ text for one meeting, then double ~~strike through~~ text for the next meeting, then removed from the list.

ACTION ITEMS

- 6/2/10 – Security light costs (material, labor, O & M). File located, under review.
- 5/23/11 – Welder transformer. Addressed under agenda item 11 at the July meeting. GRP Engineering has been requested to perform an analysis of the cost of the “no load losses” associated with these transformers, and to evaluate alternatives. City staff has compiled data and forwarded to GRP. GRP is proceeding with the analysis.
- 2/27/12 – October 31, 2011 meeting requested staff pursue possible contract language change not limiting liability to the amount of the contractor’s insurance; and remove statement that the contractor is not liable for making sure the sub-contractors do the work properly.
- 3/26/12 – Stickland requested that staff provide the utility policy concerning tampering fees for review at the next meeting. Addressed under agenda item 15 at the April 30, 2012 meeting. MMEA was contacted requesting their assistance in contacting fellow members for their policies regarding meter tampering, disconnection or tampering with service feeders/pipes, theft of service, and unsealed meter showing consumption. **No response has been received from MMEA. City staff is contacting fellow IMMDA members plus Holland, Lowell, and Coldwater.**
- 2/26/12 - Stickland requested that staff provide a list of the AEP contacts attempted during the March 7, 2012 outages. Stickland had discussions with our AEP representation at the IMMDA Annual Meeting April 27, 2012. A meeting is to be scheduled with the City and AEP. **AEP has requested a description of events be provided prior to scheduling the meeting. City staff is preparing the requested information.**
- 4/30/12 – As a result of the tamper fee discussion with a resident, staff was requested to compile a list of electrical and plumbing contractors licensed to work in South Haven for the purpose of sending notification letters concerning the tamper policy. **City staff contacted the State of Michigan and Michigan Township services, but they could not provide specific information. City of South Haven building Services has a bulletin available for posting notices.**

- ~~4/30/12 — Board questioned payment for the South Beach Improvements and playground equipment and payment for the Water Filtration Plant. Addressed under agenda item 9. B. at the June 25, 2012 meeting.~~

City of South Haven, MI



Electric Outage Report 2nd Quarter 2012

#	General Information			Cause Description	Time & Duration				Customers		
	Date	S/U	Address/Location		#	Ints	T off	T on	Mins	# Out	Cust Min
1	4/2/2012	U	16th Ave & 73rd St	Line fuse going north - tree limb	5	1	4/2/12 7:05 AM	4/2/12 9:10 AM	125	47	5875
2	4/2/2012	U	Ridgewood Dr & 68th St	Down 3 phase primary line, tree down	5	1	4/2/12 8:55 AM	4/2/12 11:55 AM	180	71	12780
3	4/2/2012	U	10599 72nd St	Line fuse , tree limb	5	1	4/2/12 12:45 PM	4/2/12 2:50 PM	125	27	3375
4	4/2/2012	U	199 Veterans Blvd	contractor hit U.G. primary line	7	1	4/2/12 10:45 AM	4/2/12 4:30 PM	345	17	5865
5	4/3/2012	U	76465 13th Ave	bad connection	10	1	4/3/12 8:50 AM	4/3/12 10:10 AM	80	1	80
6	4/9/2012	U	M-140 Hwy & Blue Star Mem Hwy	service down, tree limb	5	1				1	
7	4/11/2012	U	Sunset Dr	line fuse, squirrel	4	1	4/11/12 3:55 PM	4/11/12 5:20 PM	85	21	1785
8	4/11/2012	U	10 Water St	dug in U.G. service	7	1	4/11/12 11:20 AM	4/11/12 4:10 PM	290	4	1160
9	4/13/2012	U	233 Veterans Blvd	bad pad mount fuse and connection	10	1	4/13/12 10:10 AM	4/13/12 3:15 PM	305	7	2135
10	4/15/2012	U	Conger St & Bailey Ave	line fuse, squirrel	4	1	4/15/12 5:15 AM	4/15/12 7:45 AM	150	34	5100
11	4/16/2012	U	1598 2nd Ave	I & M, tree on 69 KV line	5	1	4/16/12 9:40 AM	4/16/12 10:15 AM	35	2,155	75425
12	4/16/2012	U	12273 73rd St	Linefuse, tree down 12th Ave & M-140	5	1	4/16/12 9:50 AM	4/16/12 11:40 AM	110	27	2970
13	4/16/2012	U	15283 73rd St	Line fuse, tree down	5	1	4/16/12 1:40 PM	4/16/12 3:05 PM	85	31	2635
14	4/16/2012	U	11118 CR 689	change fuse, squirrel	4	1	4/16/12 9:40 AM	4/16/12 10:25 AM	45	9	405
15	4/16/2012	U	CR 388 & 68th St	primary line down, on 68th St, tree down	5	1	4/16/12 12:45 PM	4/16/12 5:30 PM	285	148	42180
16	4/16/2012	U	03403 64th St	bad 3 phase 75 KVA fuse	2	1	4/16/12 10:45 AM	4/16/12 4:10 PM	325	2	650
17	4/17/2012	U	05264 CR 687	bad fuse bank	10	1	4/17/12 1:05 PM	4/17/12 4:20 PM	195	6	1170
18	4/18/2012	U	18992 Blue Star Mem. Hwy	down secondary line, tree	5	1	4/18/12 8:25 AM	4/18/12 11:50 AM	205	9	1845
19	4/18/2012	U	70491 2nd Ave	bad connection & bad underground service	2	1	4/18/12 1:15 PM	4/18/12 4:50 PM	215	4	860
20	4/19/2012	U	313 Erie St	bad connection	10	1	4/19/12 9:10 AM	4/19/12 10:55 AM	105	1	105
21	4/19/2012	U	136 74th St	change fuse, squirrel	4	1	4/19/12 11:50 AM	4/19/12 1:40 PM	110	11	1210
22	4/19/2012	U	03220 Pinewood Ln	bad connection	10	1	4/19/12 2:50 PM	4/19/12 4:00 PM	70	1	70
23	4/21/2012	U	553 Elkenburg St	bad connection	10	1	4/21/12 1:10 PM	4/21/12 3:40 PM	150	1	150
24	4/21/2012	U	4 Oak Ct	bad connection	10	1	4/21/12 2:15 PM	4/21/12 4:05 PM	110	1	110
25	4/21/2012	U	728 Willow Ave	bad arrestors, cut outs, 3 fuses, lightning	3	1	4/21/12 7:05 PM	4/21/12 11:30 PM	265	21	5565
26	4/23/2012	U	250 N Bailey Ave	bad connection	10	1	4/23/12 10:10 AM	4/23/12 11:50 AM	100	1	100
27	4/24/2012	U	67663 Cr 388	bad connection	10	1	4/24/12 8:50 PM	4/24/12 11:45 PM	175	1	175
28	4/24/2012	U	Oak St & North Shore Dr	Bad fuse 25KVA	10	1	4/24/12 1:10 PM	4/24/12 4:35 PM	205	21	4305
29	4/24/2012	U	10585 68th St	Bad fuse 10 KVA	10	1	4/24/12 2:15 PM	4/24/12 4:40 PM	145	17	2465
30	4/26/2012	U	68 Bluff Dr	Bad connection	10	1				1	
31	4/26/2012	U	Monroe St & Maple St	Primary line down, tree	5	1	4/26/12 12:35 PM	4/26/12 4:10 PM	215	62	13330
32	4/26/2012	U	111 LeGrange St	change fuse, squirrel	4	1	4/26/12 4:35 PM	4/26/12 6:20 PM	105	7	735
33	4/27/2012	U	301 North Shore Dr	bad connection	10	1	4/27/12 10:45 AM	4/27/12 1:50 PM	185	1	185
34	4/27/2012	U	74293 Lambert Dr	bad connection	10	1	4/27/12 12:50 PM	4/27/12 2:05 PM	75	1	75
35	4/29/2012	U	222 South Haven St	bad U.G. service	2	1	4/29/12 10:20 AM	4/29/12 3:15 PM	295	5	1475
36	4/29/2012	U	70544 CR 388	Bad connection	10	1	4/29/12 6:05 PM	4/29/12 8:00 PM	115	1	115
37	4/30/2012	U	77252 Pinewood Ln	change fuse, squirrel	4	1	4/30/12 10:50 AM	4/30/12 11:55 AM	65	16	1040
38	4/30/2012	U	03152 Ridgewood Dr	line fuse, tree limb on line	5	1	4/30/12 11:20 AM	4/30/12 1:10 PM	110	67	7370

S/U - Scheduled or Unscheduled

Ints - # of Interruptions

Long - >1 min; Short - <1 min

Cause # - see table on page 3

Total Customers this Month	8,057	Days of Month
Total Customer Minutes this Month	348,062,400	30

Outage Totals		
	This Month	This Month Last Year
Unscheduled Outages		
Long # Outages	38	14
# Customers Out	2,858	269
# Minutes Out	5,785	45025
# Customer Minutes Out	204,875	73510
# Within City System	38	14
# Supply to City Minutes	0	0
Short # Outages (Blinks)	0	0
# Customers Affected	0	0
# Within City System	0	0
# Supply to City Minutes	0	0
Scheduled Outages		
Long # Outages	0	0
# Customers Out	0	0
# Minutes Out	0	0
# Customer Minutes Out	0	0
# Within City System	0	0
# Supply to City Minutes	0	0
Short # Outages (Blinks)	0	0
# Customers Affected	0	0
# Within City System	0	0
# Supply to City Minutes	0	0
Totals		
Total Long Outages	38	14
Total Short Outages (Blinks)	0	0
Total Customers Out (Long)	2,858	269
Total Customers Affected (Short- Blinks)	0	0
Total Customer Minutes Out	204,875	73510
Total Outages Within City System	38	14
Total Outages in Supply to City	0	0

Number of Outages (by Cause)					
Cause #	Description	Total This Month	This Month Last Year	Rolling AT	% AT
0	Electric Supply Disruption to City	0	0	0	0%
1	Fallen Line / Rotted Pole	0	1	12	3%
2	Bad U/G Cable	3	1	14	4%
3	Lightning	1	1	21	6%
4	Animal Contact	6	2	40	12%
5	Tree Contact	11	4	105	31%
6	Contamination / Foreign Debris	0	0	0	0%
7	Human	2	1	18	5%
8	Other	0	0	0	0%
9	Undetermined	0	0	1	0%
10	Failed Device	15	4	132	38%
	Total	38	14	343	

12 Month Outage Statistics		
Index	As of This Month	As of This Month Last Year
ASAI (%)	99.9516	99.9522
CAIDI (Long) (min)	185.59	236.18
SAIDI (Long) (min)	21.25	20.94
SAIFI (Long) (ints/tot cust)	0.11	0.09
SAIFI (Short) (ints/tot cust)	0.00	0.00

- ASAI - Average Service Availability Index
(customer minutes available/total customer minutes, as a %)
- CAIDI - Customer Average Interruption Duration Index
(average minutes interrupted per interrupted customer)
- SAIDI - System Average Interruption Duration Index
(average minutes interrupted per customer for all customers)
- SAIFI (Long) - System Average Interruption Frequency Index
(# of long interruptions per customer for all customers)
- SAIFI (Short) - System Average Interruption Frequency Index
(# of short interruptions per customer for all customers)

S/U - Scheduled or Unscheduled
 Ints - # of Interruptions
 Long - >1 min; Short - <1 min
 Cause # - see table on page 3

General Information				Cause		Time & Duration				Customers	
#	Date	S/U	Address/Location	Description	#	Ints	T off	T on	Mins	# Out	Cust Min
1	5/1/2012	U	8th Ave & CR 687	bad power bank fuse	10	1	5/1/12 10:50 AM	5/1/12 2:45 PM	235	4	940
2	5/2/2012	U	10 Water St	bad underground service	2	1	5/2/12 8:10 AM	5/2/12 1:45 PM	335	9	3015
3	5/3/2012	U	Woodland Marsh	Bad connection	10	1	5/3/12 2:20 PM	5/3/12 4:30 PM	130	8	1040
4	5/4/2012	U	23 Bailey Ave	Change fuse, squirrel	4	1	5/4/12 7:20 AM	5/4/12 9:10 AM	110	13	1430
5	5/4/2012	U	74561 12th Ave	Bad U.G. service	2	1	5/4/12 8:40 AM	5/4/12 11:35 AM	175	1	175
6	5/4/2012	U	7400 North Shore Dr N	Bad U.G. riser, lightning	3	1	5/4/12 1:45 PM	5/4/12 3:50 PM	125	62	7750
7	5/4/2012	U	550 Chamber St	Secondary line down, tree limb, lightning	3	1	5/4/12 2:10 PM	5/4/12 5:30 PM	200	27	5400
8	5/6/2012	U	Williams St & Center St	Change fuse, squirrel	4	1	5/6/12 6:50 AM	5/6/12 10:00 AM	190	34	6460
9	5/6/2012	U	Eagle St & Indiana Ave	change fuse, squirrel	4	1	5/6/12 6:40 PM	5/6/12 7:50 PM	70	47	3290
10	5/7/2012	U	1011 Michigan Ave	Bad connection	10	1	5/7/12 3:20 PM	5/7/12 4:45 PM	85	1	85
11	5/9/2012	U	515 Williams St	Bad metering	10	1	5/9/12 1:45 PM	5/9/12 3:40 PM	115	29	3335
12	5/10/2012	U	20388 72nd St	Bad connection	10	1	5/10/12 3:35 PM	5/10/12 5:20 PM	105	1	105
13	5/10/2012	U	12 Pine St	Bad connection	10	1	5/10/12 4:10 PM	5/10/12 5:35 PM	85	1	85
14	5/11/2012	U	Aylworth Ave & M-140 Hwy	Bad fuse	10	1	5/11/12 2:45 PM	5/11/12 6:50 PM	245	18	4410
15	5/13/2012	U	8 Bailey Ave	2 line fuses out, goose	4	1	5/13/12 9:05 PM	5/13/12 10:40 PM	95	58	5510
16	5/14/2012	U	923 Phoenix St	Bad secondary line	1	1	5/14/12 1:20 PM	5/14/12 3:10 PM	110	21	2310
17	5/15/2012	U	910 St. Joseph St	Bad pole & U.G. service	2	1	5/15/12 8:10 AM	5/15/12 1:55 PM	345	1	345
18	5/15/2012	U	410 Williams St	Bad pad mount fuse	10	1	5/15/12 10:40 AM	5/15/12 2:45 PM	245	9	2205
19	5/15/2012	U	09844 Kassian Ct	Bad Connection	10	1	5/15/12 1:15 PM	5/15/12 2:40 PM	85	1	85
20	5/15/2012	U	712 Maple St	Bad Connection	10	1	5/15/12 2:10 PM	5/15/12 3:35 PM	85	1	85
21	5/17/2012	U	718 Wilson St	Change fuse, squirrel	4	1	5/17/12 6:50 AM	5/27/12 8:20 AM	14490	16	231840
22	5/17/2012	U	10041 Kalamazoo St	Change fuse & line fuse, racoon	4	1	5/17/12 4:45 PM	5/17/12 6:20 PM	95	57	5415
23	5/18/2012	U	06533 Baseline Rd	Change fuse, squirrel	4	1	5/18/12 11:05 AM	5/18/12 1:10 PM	125	16	2000
24	5/21/2012	U	245 Hubbard St	Primary line down, tree limb	5	1	5/21/12 3:00 PM	5/21/12 5:05 PM	125	37	4625
25	5/21/2012	U	231 Blue Star Mem Hwy	change fuse, squirrel	4	1	5/21/12 11:20 AM	5/21/12 1:35 PM	135	11	1485
26	5/22/2012	U	68299 CR 388	change fuse, squirrel	4	1	5/22/12 2:30 PM	5/22/12 4:00 PM	90	9	810
27	5/23/2012	U	70705 16th Ave	Bad connection	10	1	5/23/12 10:50 AM	5/23/12 1:40 PM	170	1	170
28	5/23/2012	U	01021 67th St	Bad connection	10	1	5/23/12 3:15 PM	5/23/12 4:20 PM	65	1	65
29	5/23/2012	U	230 Baseline Rd	Bad connection	10	1	5/23/12 6:10 PM	5/23/12 10:15 PM	245	26	6370
30	5/26/2012	U	76648 11th Ave	Chang fuse, squirrel	4	1	5/26/12 9:00 PM	5/27/12 12:40 PM	940	16	15040
31	5/27/2012	U	68300 CR 388	line fuse, squirrel	4	1	5/27/12 3:00 PM	5/27/12 8:50 PM	350	72	25200
32	5/30/2012	U	35 Beaver Ct	Bad U.G. service	2	1	5/30/12 2:50 PM	5/30/12 8:40 PM	350	1	350
33	5/30/2012	U	Phoenix St & Broadway St	Change fuse, squirrel	4	1	5/30/12 4:10 PM	5/30/12 7:35 PM	205	9	1845
34	5/31/2012	U	270 Oak St	Bad connection	10	1	5/31/12 3:05 PM	5/31/12 4:10 PM	65	1	65
35	5/30/2012	U	604 Indiana Ave	Bad connection	10	1	5/30/12 8:10 AM	5/30/12 9:50 AM	100	1	100
36	5/30/2012	U	65278 8th Ave	Bad connection	10	1	5/30/12 9:30 AM	5/30/12 11:45 AM	135	1	135

S/U - Scheduled or Unscheduled

Ints - # of Interruptions

Long - >1 min; Short - <1 min

Cause # - see table on page 3

Total Customers this Month	8,202	Days of Month
Total Customer Minutes this Month	366,137,280	31

Outage Totals			
		This Month	This Month Last Year
Unscheduled Outages			
Long	# Outages	36	26
	# Customers Out	621	467
	# Minutes Out	20,855	3445
	# Customer Minutes Out	343,575	75115
	# Within City System	36	26
	# Supply to City Minutes	0	0
Short	# Outages (Blinks)	0	0
	# Customers Affected	0	0
	# Within City System	0	0
	# Supply to City Minutes	0	0
Scheduled Outages			
Long	# Outages	0	0
	# Customers Out	0	0
	# Minutes Out	0	0
	# Customer Minutes Out	0	0
	# Within City System	0	0
	# Supply to City Minutes	0	0
Short	# Outages (Blinks)	0	0
	# Customers Affected	0	0
	# Within City System	0	0
	# Supply to City Minutes	0	0
Totals			
Total Long Outages		36	26
Total Short Outages (Blinks)		0	0
Total Customers Out (Long)		621	467
Total Customers Affected (Short- Blinks)		0	0
Total Customer Minutes Out		343,575	75115
Total Outages Within City System		36	26
Total Outages in Supply to City		0	0

Number of Outages (by Cause)					
Cause #	Description	Total This Month	This Month Last Year	Rolling AT	% AT
0	Electric Supply Disruption to City	0	0	0	0%
1	Fallen Line / Rotted Pole	1	2	11	3%
2	Bad U/G Cable	4	0	18	5%
3	Lightning	2	1	22	6%
4	Animal Contact	12	2	50	14%
5	Tree Contact	1	8	98	28%
6	Contamination / Foreign Debris	0	0	0	0%
7	Human	0	0	18	5%
8	Other	0	0	0	0%
9	Undetermined	0	0	1	0%
10	Failed Device	16	13	135	38%
	Total	36	26	353	

12 Month Outage Statistics		
Index	As of This Month	As of This Month Last Year
ASAI (%)	99.9454	99.9527
CAIDI (Long) (min)	206.90	235.02
SAIDI (Long) (min)	23.98	20.72
SAIFI (Long) (ints/tot cust)	0.12	0.09
SAIFI (Short) (ints/tot cust)	0.00	0.00

- ASAI - Average Service Availability Index
(customer minutes available/total customer minutes, as a %)
- CAIDI - Customer Average Interruption Duration Index
(average minutes interrupted per interrupted customer)
- SAIDI - System Average Interruption Duration Index
(average minutes interrupted per customer for all customers)
- SAIFI (Long) - System Average Interruption Frequency Index
(# of long interruptions per customer for all customers)
- SAIFI (Short) - System Average Interruption Frequency Index
(# of short interruptions per customer for all customers)

S/U - Scheduled or Unscheduled
 Ints - # of Interruptions
 Long - >1 min; Short - <1 min
 Cause # - see table on page 3

General Information				Cause		Time & Duration				Customers	
#	Date	S/U	Address/Location	Description	#	Ints	T off	T on	Mins	# Out	Cust Min
1	6/4/2012	U	210 North Shore Dr	Bad connection	10	1	6/4/12 2:55 PM	6/4/12 3:50 PM	55	1	55
2	6/4/2012	U	16th Ave & 65th St	Line fuse, squirrel	4	1	6/4/12 6:45 PM	6/4/12 8:20 PM	95	47	4465
3	6/5/2012	U	20178 Pine Ave	Bad connection	10	1	6/5/12 6:35 PM	6/5/12 7:50 PM	75	1	75
4	6/6/2012	U	73455 Baseline Rd	Line fuse, squirrel	4	1	6/6/12 7:45 AM	6/6/12 9:20 AM	95	164	15580
5	6/6/2012	U	502 Indiana Ave	Change fuse squirrel	4	1	6/6/12 8:45 AM	6/6/12 10:25 AM	100	17	1700
6	6/7/2012	U	425 Aylworth Ave	down secondary line, tree limb	5	1	6/7/12 10:55 AM	6/7/12 2:40 PM	225	27	6075
7	6/8/2012	U	19 North Shore Dr N	bad underground service	2	1	6/8/12 8:45 AM	6/8/12 2:10 PM	325	1	325
8	6/8/2012	U	278 Dyckman Ave	Change fuse, goose	4	1	6/8/12 11:45 AM	6/8/12 1:35 PM	110	23	2530
9	6/9/2012	U	74219 Lambert Dr	Bad connection	10	1	6/9/12 9:35 AM	6/9/12 10:55 AM	80	1	80
10	6/10/2012	U	11931 CR 689	Change fuse, squirrel	4	1	6/10/12 10:15 AM	6/10/12 11:35 AM	80	5	400
11	6/11/2012	U	879 Kalamazoo St	Down service tree limb	5	1	6/11/12 2:10 PM	6/11/12 4:45 PM	155	1	155
12	6/11/2012	U	19 North Shore Dr N	Bad U.G. service	2	1	6/11/12 1:50 PM	6/11/12 5:10 PM	200	1	200
13	6/12/2012	U	612 Maple Ave	Bad connection	10	1	6/12/12 3:40 PM	6/12/12 4:50 PM	70	1	70
14	6/12/2012	U	756 Wilson St	Line fuse, squirrel	4	1	6/12/12 7:05 PM	6/12/12 8:50 PM	105	47	4935
15	6/13/2012	U	19350 M-140 Hwy	Bad connection	10	1	6/13/12 8:20 AM	6/13/12 9:55 AM	95	1	95
16	6/13/2012	U	837 Conger St	Bad connection	10	1	6/13/12 9:05 AM	6/13/12 11:15 AM	130	1	130
17	6/13/2012	U	Baseline Rd 71.5 St	Line fuse, squirrel	4	1	6/13/12 8:10 AM	6/13/12 9:55 AM	105	34	3570
18	6/13/2012	U	M-43 & 73rd St	Truck hit secondary line down	7	1	6/13/12 3:10 PM	6/13/12 7:50 PM	280	9	2520
19	6/13/2012	U	2nd Ave & 71.5 St	Line fuse tree limb on line	5	1	6/13/12 2:45 PM	6/13/12 6:10 PM	205	27	5535
20	6/16/2012	U	72657 Baseline Rd	Line fuse at Baseline Rd and B.S. Hwy, tree	5	1	6/16/12 1:05 PM	6/16/12 5:35 PM	270	39	10530
21	6/16/2012	U	Cass St & Monroe Blvd	Line fuse, tree limb	5	1	6/16/12 5:45 PM	6/16/12 9:50 PM	245	73	17885
22	6/17/2012	U	502 Indiana Ave	Secondary line down, tree down	5	1	6/17/12 9:35 AM	6/17/12 2:10 PM	275	17	4675
23	6/18/2012	U	726 Hiways	Bad connection	10	1	6/18/12 9:05 AM	6/18/12 11:15 AM	130	1	130
24	6/18/2012	U	300 Oak St	Bad fuse	10	1	6/18/12 1:10 PM	6/18/12 4:25 PM	195	23	4485
25	6/19/2012	U	16721 73rd St	Change fuse, squirrel	4	1	6/19/12 1:50 AM	6/19/12 3:05 AM	75	11	825
26	6/19/2012	U	750 Broadway St	Secondary line down, tree	5	1	6/19/12 11:20 AM	6/19/12 3:10 PM	230	16	3680
27	6/19/2012	U	05856 68th St	Bad connection	10	1	6/19/12 2:05 PM	6/19/12 3:55 PM	110	1	110
28	6/19/2012	U	07499 M-43	Bad connection	10	1	6/19/12 6:45 PM	6/19/12 8:20 PM	95	1	95
29	6/20/2012	U	394 Baseline Rd	Change fuse, squirrel	4	1	6/20/12 7:05 AM	6/20/12 8:45 AM	100	14	1400
30	6/20/2012	U	233 Veterans Blvd	Cut in new service line	2	1	6/20/12 10:15 AM	6/20/12 5:10 PM	415	1	415
31	6/20/2012	U	19642 76th St	Bad connection	10	1	6/20/12 1:20 PM	6/20/12 2:35 PM	75	1	75
32	6/21/2012	U	16602 77th St	Line fuse, tree limb on line	5	1	6/21/12 2:20 PM	6/21/12 6:10 PM	230	64	14720
33	6/22/2012	U	6745 Baseline Rd	Change fuse, squirrel	4	1	6/22/12 6:10 PM	6/22/12 7:40 PM	90	9	810
34	6/23/2012	U	746 Hiways Ave	Change fuse, squirrel	4	1	6/23/12 6:05 AM	6/23/12 7:45 AM	100	21	2100
35	6/24/2012	U	18151 72nd St	Line fuse, tree limb on line	5	1	6/24/12 1:00 PM	6/24/12 2:55 PM	115	136	15640
36	6/26/2012	U	Lyon St & Kalamazoo St	Line fuse, tree limb on line	5	1	6/26/12 11:20 AM	6/26/12 2:40 PM	200	63	12600
37	6/27/2012	U	02116 68th St	Bad Breaker	10	1	6/27/12 3:35 PM	6/27/12 4:40 PM	65	1	65

S/U - Scheduled or Unscheduled

Ints - # of Interruptions

Long - >1 min; Short - <1 min

Cause # - see table on page 3

Total Customers this Month	8,163	Days of Month
Total Customer Minutes this Month	352,641,600	30

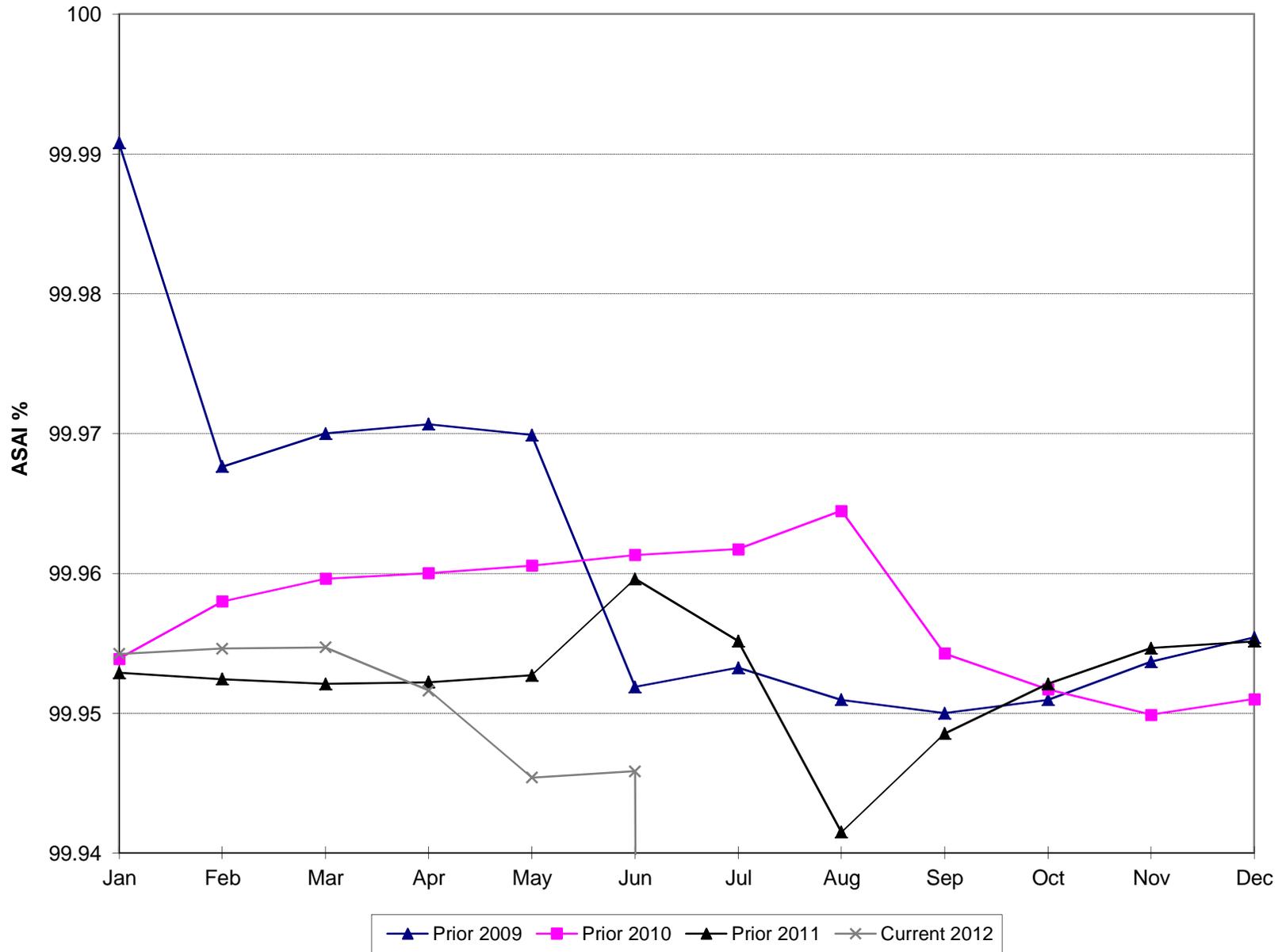
Outage Totals		
	This Month	This Month Last Year
Unscheduled Outages		
Long # Outages	37	35
# Customers Out	901	690
# Minutes Out	5,600	4850
# Customer Minutes Out	138,735	156910
# Within City System	37	35
# Supply to City Minutes	0	0
Short # Outages (Blinks)	0	0
# Customers Affected	0	0
# Within City System	0	0
# Supply to City Minutes	0	0
Scheduled Outages		
Long # Outages	0	0
# Customers Out	0	0
# Minutes Out	0	0
# Customer Minutes Out	0	0
# Within City System	0	0
# Supply to City Minutes	0	0
Short # Outages (Blinks)	0	0
# Customers Affected	0	0
# Within City System	0	0
# Supply to City Minutes	0	0
Totals		
Total Long Outages	37	35
Total Short Outages (Blinks)	0	0
Total Customers Out (Long)	901	690
Total Customers Affected (Short- Blinks)	0	0
Total Customer Minutes Out	138,735	156910
Total Outages Within City System	37	35
Total Outages in Supply to City	0	0

Number of Outages (by Cause)					
Cause #	Description	Total This Month	This Month Last Year	Rolling AT	% AT
0	Electric Supply Disruption to City	0	0	0	0%
1	Fallen Line / Rotted Pole	0	2	9	3%
2	Bad U/G Cable	3	1	20	6%
3	Lightning	0	1	21	6%
4	Animal Contact	11	3	58	16%
5	Tree Contact	10	13	95	27%
6	Contamination / Foreign Debris	0	0	0	0%
7	Human	1	0	19	5%
8	Other	0	0	0	0%
9	Undetermined	0	0	1	0%
10	Failed Device	12	15	132	37%
	Total	37	35	355	

12 Month Outage Statistics		
Index	As of This Month	As of This Month Last Year
ASAI (%)	99.9458	99.9596
CAIDI (Long) (min)	201.51	241.18
SAIDI (Long) (min)	23.78	17.70
SAIFI (Long) (ints/tot cust)	0.12	0.07
SAIFI (Short) (ints/tot cust)	0.00	0.00

- ASAI - Average Service Availability Index
(customer minutes available/total customer minutes, as a %)
- CAIDI - Customer Average Interruption Duration Index
(average minutes interrupted per interrupted customer)
- SAIDI - System Average Interruption Duration Index
(average minutes interrupted per customer for all customers)
- SAIFI (Long) - System Average Interruption Frequency Index
(# of long interruptions per customer for all customers)
- SAIFI (Short) - System Average Interruption Frequency Index
(# of short interruptions per customer for all customers)

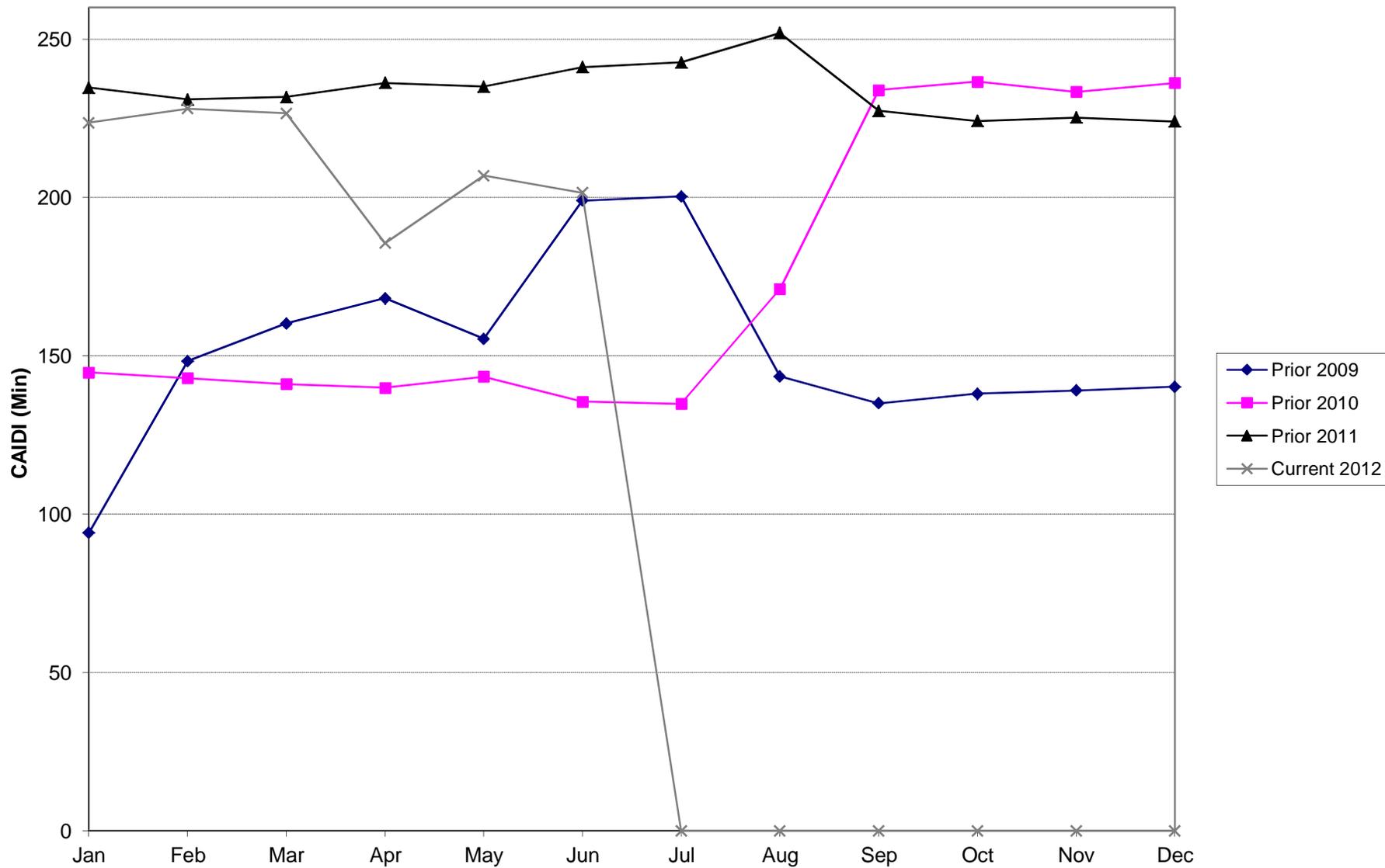
S/U - Scheduled or Unscheduled
 Ints - # of Interruptions
 Long - >1 min; Short - <1 min
 Cause # - see table on page 3



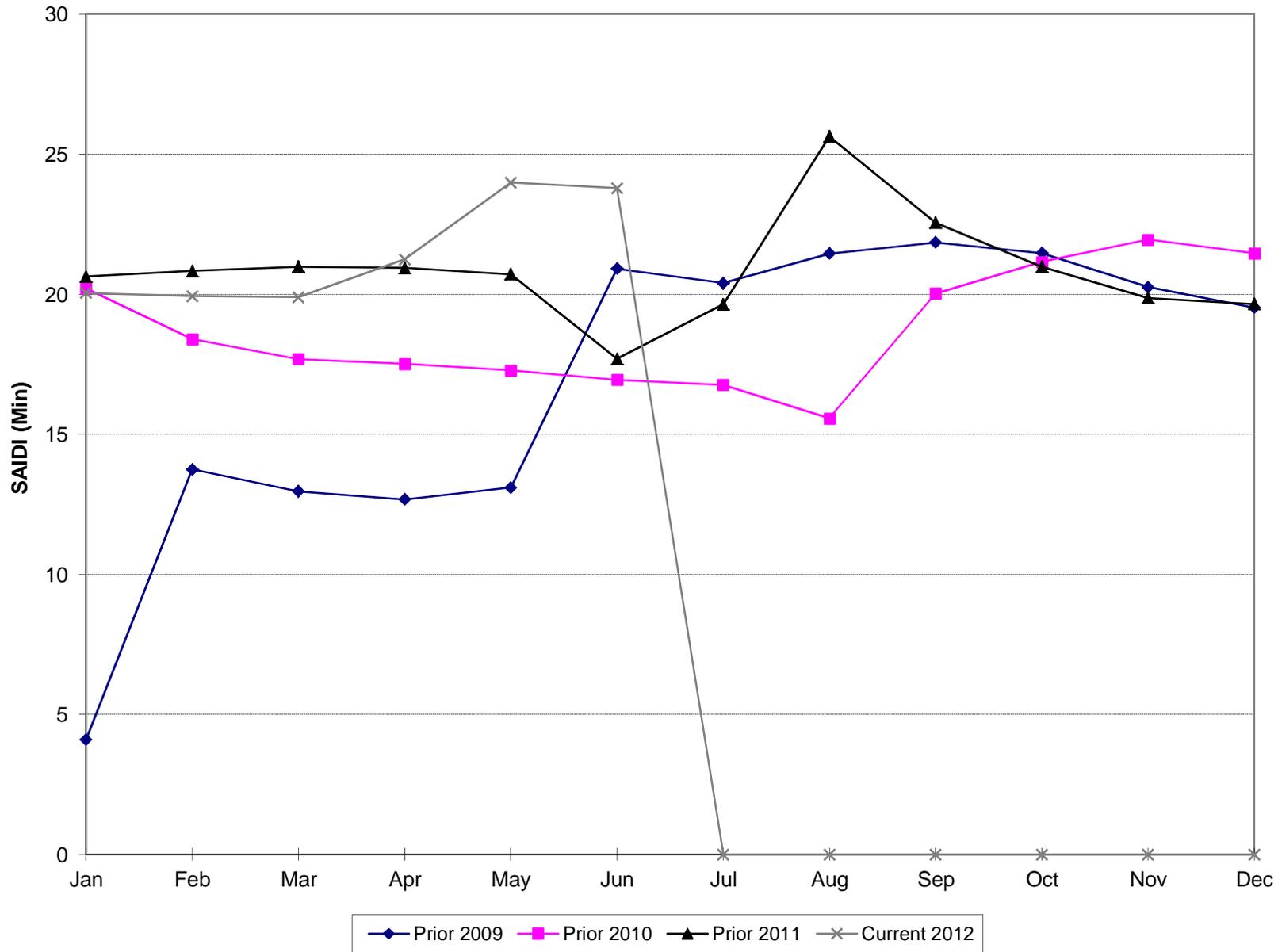
The ratio of the total customer minutes that service was available divided by the total customer minutes demanded (expected) in a time period. It is expressed as a percent.

CAIDI (Customer Average Interruption Duration Index)

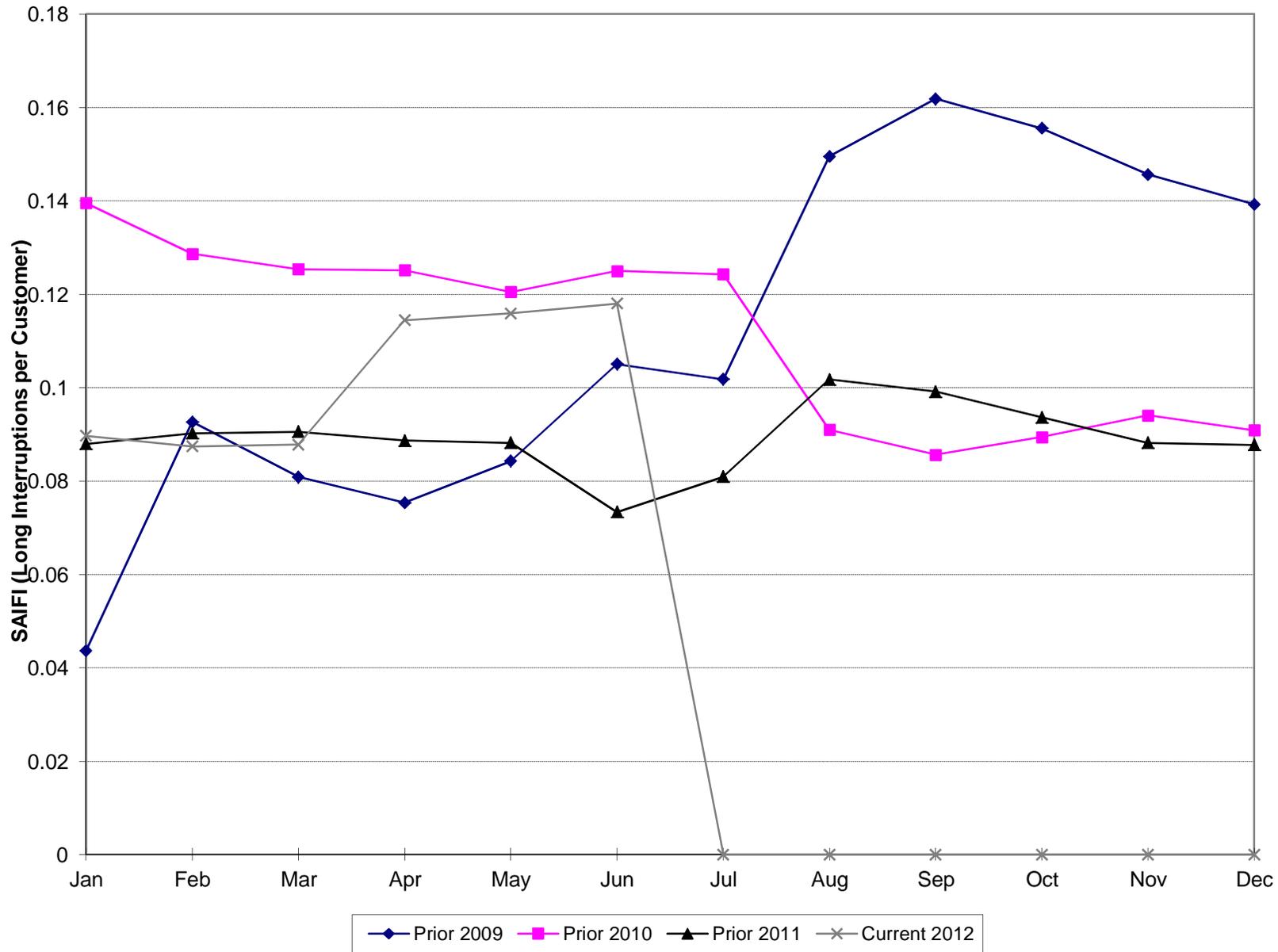
7/11/2012



This is the average duration of a customer outage, and is calculated by dividing the sum of the customer minutes off by the number of customers who experienced long interruptions.

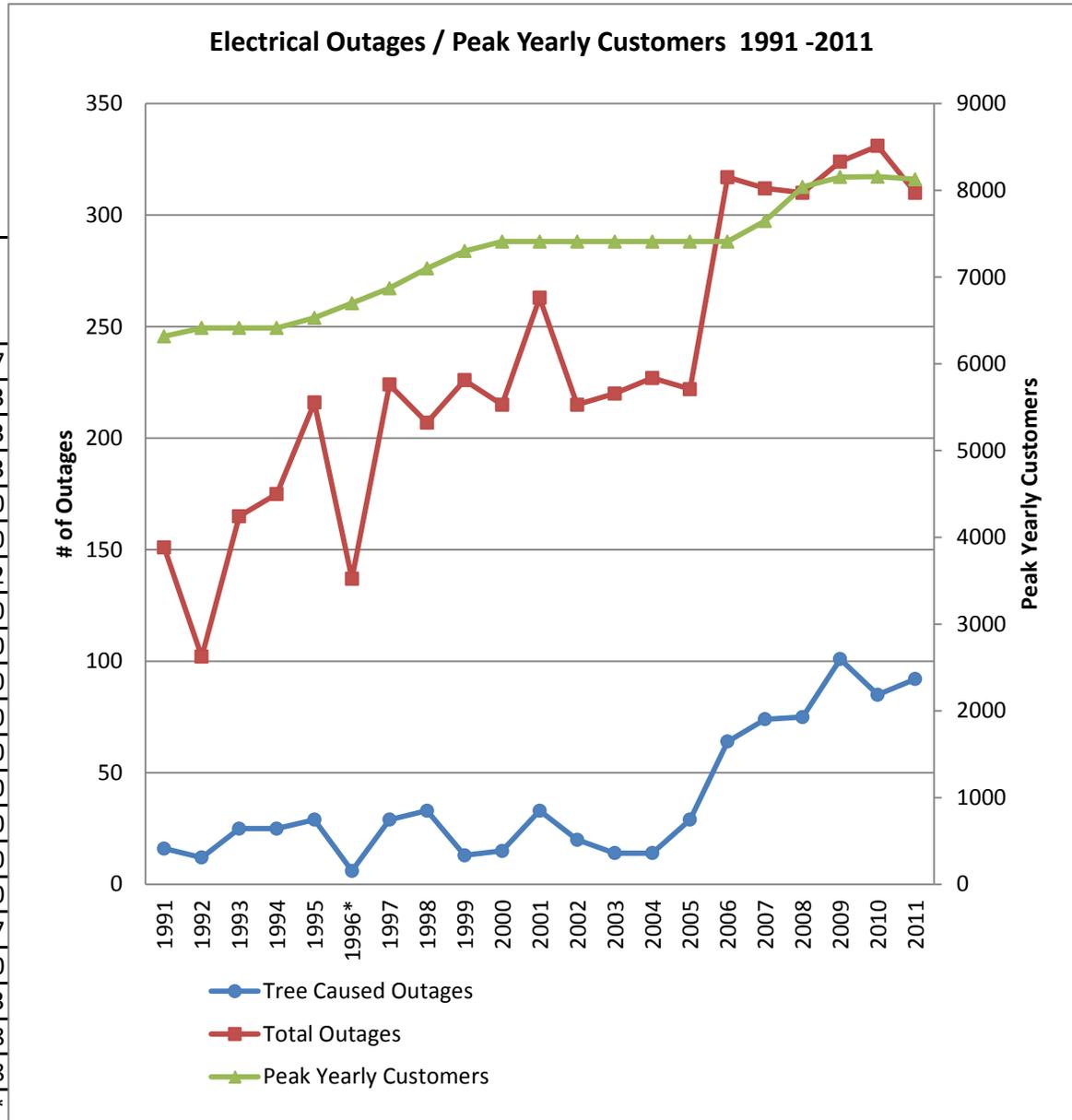


This is the avg interruption duration for all customers served, and is calculated by dividing the sum of the customer minutes off by the avg number of customers served.



The number of times a customer is interrupted (>1 minute), averaged over all customers. Divide total customer interruptions by an avg of total customers served.

Year	Tree Caused Outages	Total Outages	Peak Yearly Customers
1991	16	151	6317
1992	12	102	6413
1993	25	165	6413
1994	25	175	6413
1995	29	216	6530
1996*	6	137	6700
1997	29	224	6872
1998	33	207	7100
1999	13	226	7300
2000	15	215	7410
2001	33	263	7410
2002	20	215	7410
2003	14	220	7410
2004	14	227	7410
2005	29	222	7410
2006	64	317	7410
2007	74	312	7647
2008	75	310	8040
2009	101	324	8153
2010	85	331	8158
2011	92	310	8128
2012	30**	155**	8202**



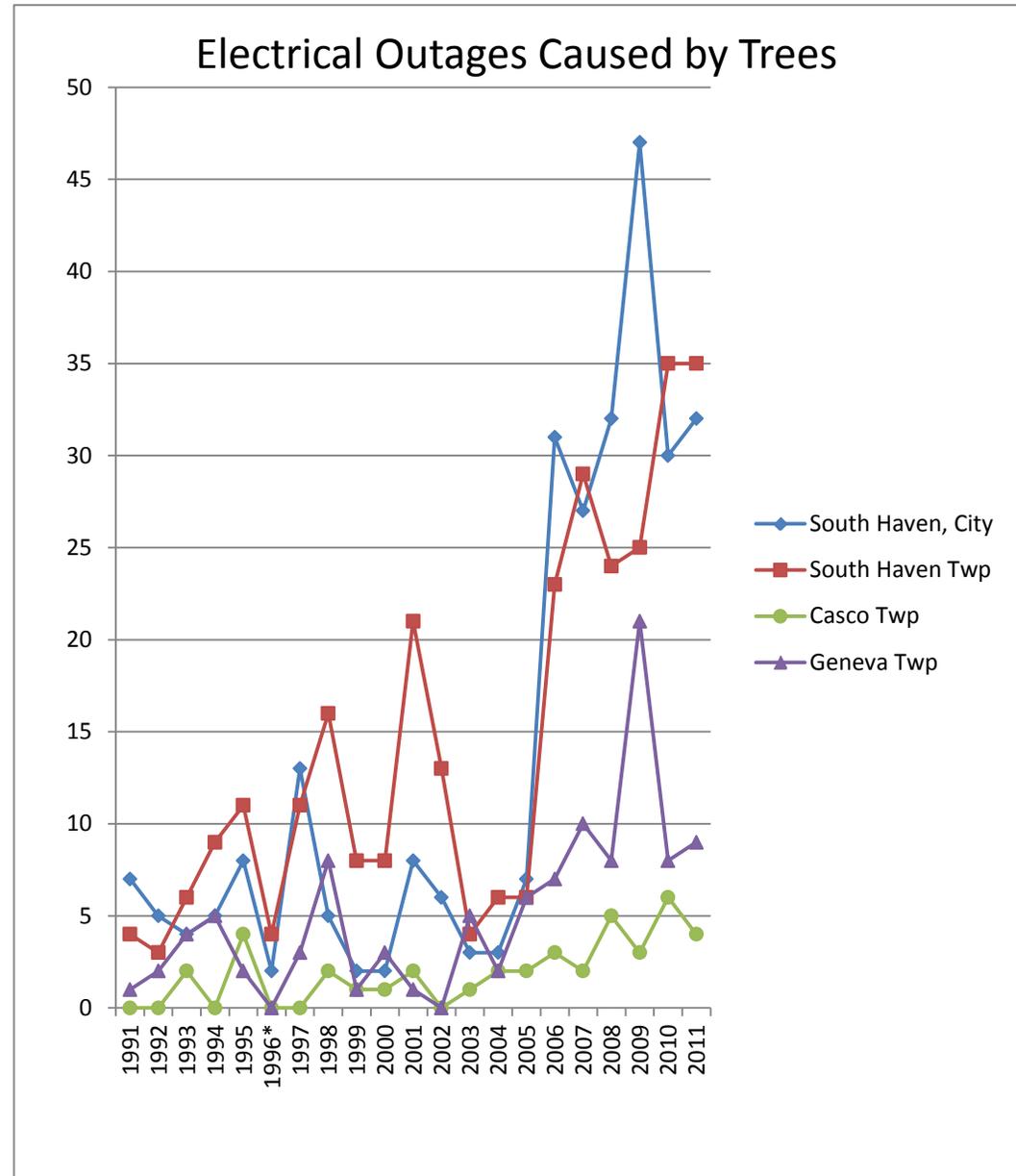
* There are three months of data missing from 1996

**Through June 30, 2012 not included in graph

Tree Caused Electrical Outages 1991 -2011 by Municipality

YEAR	South Haven, City	South Haven Twp	Casco Twp	Geneva Twp
1991	7	4	0	1
1992	5	3	0	2
1993	4	6	2	4
1994	5	9	0	5
1995	8	11	4	2
1996*	2	4	0	0
1997	13	11	0	3
1998	5	16	2	8
1999	2	8	1	1
2000	2	8	1	3
2001	8	21	2	1
2002	6	13	0	0
2003	3	4	1	5
2004	3	6	2	2
2005	7	6	2	6
2006	31	23	3	7
2007	27	29	2	10
2008	32	24	5	8
2009	47	25	3	21
2010	30	35	6	8
2011	32	35	4	9
2012 through June	12	12	3	3
Total (Excludes 2012)	279	301	40	106

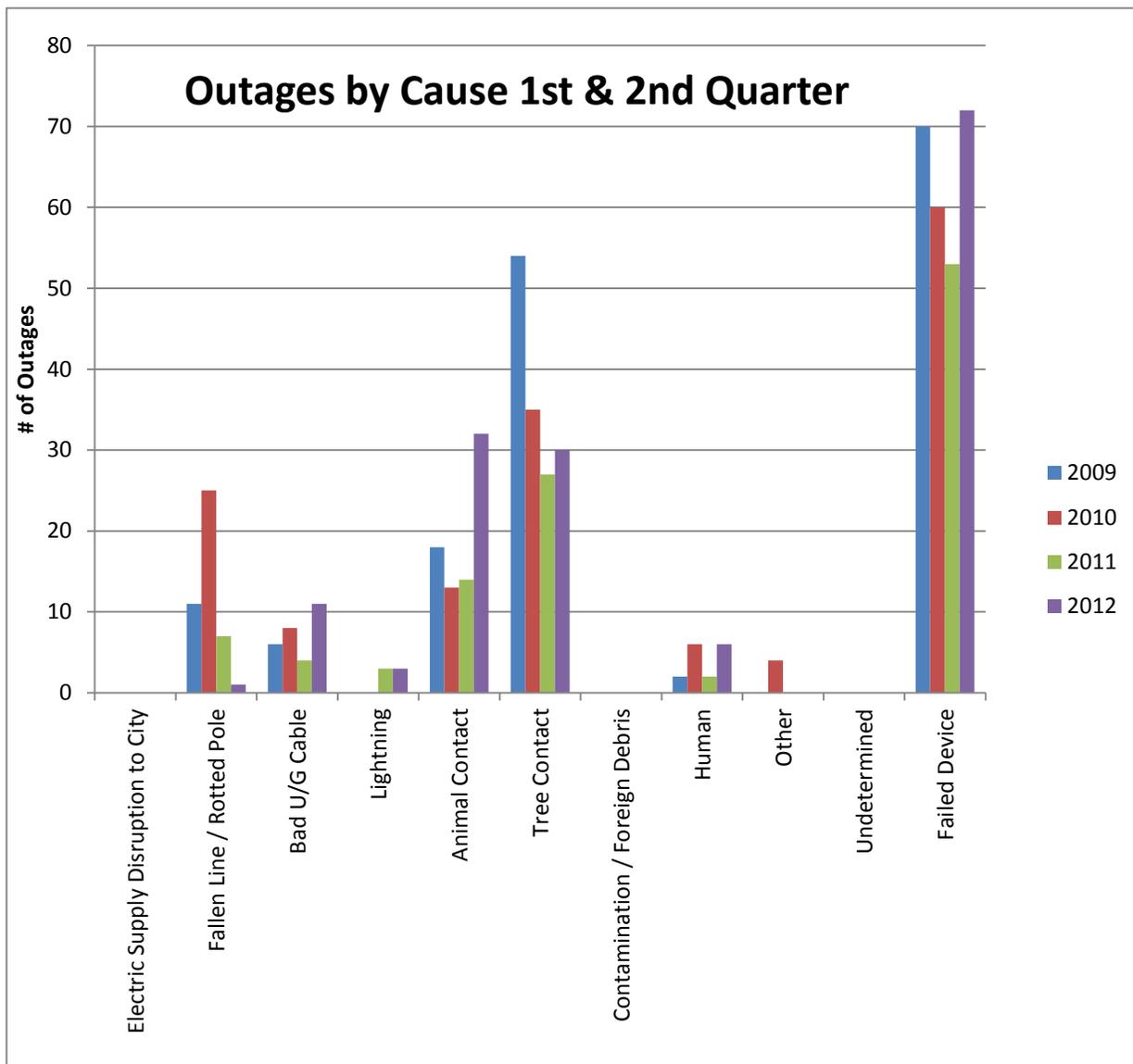
Note: 84 Tree related outages had insufficient addresses and could not be assigned to a specific municipality



* There are three months of data missing from 1996

1st & 2nd Quarter Electrical Outages by Category

Outage Categories	2009	2010	2011	2012
Electric Supply Disruption to City	0	0	0	0
Fallen Line / Rotted Pole	11	25	7	1
Bad U/G Cable	6	8	4	11
Lightning	0	0	3	3
Animal Contact	18	13	14	32
Tree Contact	54	35	27	30
Contamination / Foreign Debris	0	0	0	0
Human	2	6	2	6
Other	0	4	0	0
Undetermined	0	0	0	0
Failed Device	70	60	53	72
Total	161	151	110	155



TO: ROGER HUFF - DEPT. OF WATER & SEWER. JULY 2012

FR: MIKEL & JYTTE R. HANSEN / 45424 BLUE STAR HW.

RE: TAMPER FEE.

BASED ON YOUR SUGGESTION I AM RESPONDING IN WRITING TO THE
IMPOSED TAMPER FEE ON OUR ACCOUNT.

BUT FIRST / WE HAVE BEEN VERY PLEASED SWITCHING FROM OUR OLD
WELL TO SOUTH HAVEN WATER.

WHEN THE SERVICE WAS ACTIVATED I MISSED HAVING RULES AND
INSTRUCTIONS TELLING ME WHAT I COULD OR COULD NOT DO - THEREFORE
THE FIRST FALL I JUST TURNED THE WATER OFF.

THE FOLLOWING SPRING, TURNING IT BACK ON, I FOUND THE METER
LEAKING - WATER STANDING IN THE METER FROZE DUE TO POOR
ENGINEERING - THE METER IS NO MORE THAN 6" BELOW THE SURFACE.

YOUR DEPT. FIXED IT AT NO CHARGE - THANK YOU!

SINCE IT IS YOUR METER, I CHOSE FOR YOU TO TURN THE WATER ON AND
OFF IN A SAFE AND RESPONSIBLE WAY.

WE LIVE IN NORTH CAROLINA DURING THE WINTER AND MUST
RELIE ON YOUR DEPT. TO SERVICE THE METER IN A TAMPER
PROOF MANNER, I GUESS IT WAS NOT SINCE SOMEBODY
BETWEEN FALL OF 2011 AND SPRING 2012 HAD THE USE OF MY WATER -
HENCE A SUBSTANTIAL TAMPER FEE.

IN CONCLUSION / WE RESPECTFULLY SUBMIT TO THE BOARD OUR REQUEST
FOR THE ELIMINATION OF THE TAMPER FEE AND THE REMOVAL OF
ANY NEGATIVE MARKS ON OUR OTHERWISE BLEMISH FREE
ACCOUNT. PLEASE SUBMIT YOUR JUDGEMENT IN WRITING.

SINCERELY



M. R. HANSEN



J. R. HANSEN.

CC: ANDY KLAYINS.

TO: Roger Huff – Department of Public Works Water and Sewer

FROM: Mikkell and Lytte R. Hansen, 45424 Blue Star Hwy., Covert, Michigan

RE: Tamper Fee

Based on your suggestion I am responding in writing to the imposed tamper fee on our account.

But first I/we have been very pleased switching from our old well to South Haven water.

When the service was activated I missed having rules and instructions telling me what I could or could not do – therefore the first fall I just turned the water off.

The following spring, turning it back on. I found the meter leaking – water standing in the meter froze due to poor engineering – the meter is no more than 6” below the surface. Your department fixed it at no charge – thank you!

Since it is your meter, I chose for you to turn the water on and off in a safe and responsible way.

We live in North Carolina during the winter and must rely on your department to service the meter in a tamper proof manner; I guess it was not since somebody between fall of 2011 and spring 2012 had the use of my water hence a substantial tamper fee.

In conclusion I/we respectfully submit to the board our request for the elimination of the tamper fee and the removal of any negative marks on our otherwise blemish free account. Please submit your judgment in writing.

Sincerely,

M. R. Hansen

J. R. Hansen

cc: Andy Klavins



City of South Haven

Agenda Item # 12

Hydrant Water Sales Policy

Background Information:

Due to the recent dry weather, the DPW is experiencing a considerable demand for “bulk” water sales. Bulk water sales are defined as hydrant water sales in Appendix #1 (copy attached) of the “City of South Haven Public Utilities Rules, Regulations and Policies” (BPU date of recommendation: December 18, 2006, adopted by City Council: January 15, 2007, updated: November 15, 2010). Per this policy, charges for use shall include:

- Installation, removal, operation of fire hydrant - \$50.00 labor (includes up to 4,000 cubic feet). The installation fee shall be paid in advance.
- Water in excess of 4,000 cubic feet will be charged at the standard rates published.

Hydrant water sales are typically permitted anywhere in the distribution system that there is an available fire hydrant. DPW provides meter and backflow assemblies to account for metered sales. Since we only have approximately 6 assemblies, remote metering locations are on a first come, first served basis. Due to the high demand, staff has been limiting remote locations to a maximum of 5 days in order to provide service to as many individuals as possible.

The increased interest in hydrant water sales has highlighted the need to review the policy and rates. City staff recommends a formal change to the rates and charges occur during next year’s budget cycle and rate setting, but the review process of the policy has begun. For comparison purposes, City staff is gathering policies and rates from other utilities. The Board is requested to discuss any comments, concerns, changes, additions, etc. at the July 30, 2012 regular meeting. In the short term, procedural changes can be implemented on staff level.

Support Material:

Appendix #1

Respectfully submitted,

Roger Huff, P.E.
Director

Appendix #1

UTILTIY RATES

July, 2006

RATES

(Copy of Resolution 944)

DELAYED PAYMENT CHARGE

The above rates are NET if paid on or before the date appearing on the customer's bill.

The GROSS rate is obtained by adding 10% to the NET rate. This amount applies to all payments made after the date appearing on the customer's bill

HYDRANT WATER SALES

The sale of water from fire hydrants will only be available with the expressed permission of the City Water Department. It will be the responsibility of the person requesting the use of temporary water to pay for the installing, removing, and the turning on and off of the hydrant and the water used and any damage which may result from such use.

Charges for use shall include:

- Installation, removal, operation of fire hydrant - \$50.00 labor (includes up to 4,000 cubic feet). The installation fee shall be paid in advance.
- Water in excess of 4,000 cubic feet will be charged at the standard rates as published.

Tanker truck sales will only be available from the specified hydrant located at the Department of Public Works building, located at 1199 8th Avenue. Fees assessed will be the same as required for all hydrant sales.