

Board of Public Utilities

Regular Meeting Agenda

Monday, July 27, 2015
4:00 p.m., DPW Conference Room
1199 8th Avenue



1. Call to Order
2. Roll Call
3. Approval of Agenda
4. Approval of Minutes for the Record – June 29, 2015 Regular Meeting Minutes
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. 2015 Billings – All Charges
- B. 2014 Billings – All Charges

7. Financial Reports

- A. Electric Fund – Financial Statement
- B. Electric Fund – Review of Percentage Billed
- C. Water Fund – Financial Statement
- D. Water Fund – Review of Percentage Billed
- E. Sewer Fund – Financial Statement

8. Unresolved Issues Report

9. SAW Grant Project Progress Report

- A. SAW Grant – Asset Management Plan Project Status Report

10. Quarterly Outage Report

NEW BUSINESS

11. Board will be requested to review a request to grant an exception to Sec. 86-156 of the Code of Ordinances and make a recommendation to City Council. Presentation by

Global Remediation Technologies on behalf of the Michigan Department of Environmental Quality.

UNFINISHED BUSINESS

12. Board will be requested to provide any additional review comments concerning the DRAFT South Haven Area Water-Sewer Authority Contract (presented at the June 11, 2015 workshop and reviewed at the June 29, 2015 regular meeting).

13. Public Works Director Comments

A. Next Meeting is scheduled for August 31, 2015.

14. Board Member Comments

15. Adjourn

RESPECTFULLY SUBMITTED,

Roger Huff, PE
Public Works Director

Board of Public Utilities

Regular Meeting Minutes

Monday, June 29, 2015
4:00 p.m., DPW Conference Room
1199 8th Avenue



1. Call to Order by Stickland at 4:00 p.m.

2. Roll Call

Present: Burr, Roberts, Stein (ex-officio), Winkel, Stickland

Absent: Henry, Overhiser (ex-officio), Rose (ex-officio)

Also present: Wendy Hochstedler, Finance Director; Larry Halberstadt, City Engineer

3. Approval of Agenda

Motion by Burr, second by Roberts to approve the June 29, 2015 regular meeting agenda with the removal of item 13.

All in favor. Motion carried.

4. Approval of Minutes for the Record – May 18, 2015 Regular Meeting Minutes

Motion by Burr, second by Winkel to approve the May 18, 2015 regular meeting minutes as written.

All in favor. Motion carried.

5. Interested Citizens in the Audience Will be Heard on Items Not on the Agenda

Marilyn Miller was present to dispute a large water bill she received the first of June for \$828.96. Customer Service at City Hall reviewed her account and suggested they could divide the bill into three installments. Customer Service also informed her about this board.

Burr noted that this is a sprinkler meter which had not been billed for four years. Burr explained that according to the utility policy the city can only go back twelve (12) months in the case of a billing issue.

Discussion ensued regarding the city installing a new sidewalk in front of Miller's house, which necessitated her landscaper, DeBest, to dig up her sprinkler system and redo it. Halberstadt noted that if the meter had been changed at the time of the sidewalk installation, the Department of Public Works would have a record of it. "We may have had to adjust the meter pit," Halberstadt stated. Miller cannot believe that she used that much water over that period of time. Stated she always has paid both bills which Burr clarified as a bill for the house and a bill for the sprinkler.

Miller noted that she recently called a plumber to fix a small leak under a sink. The plumber said he heard water running and tracked down a leak which she paid \$600 to get fixed.

Miller said it was beyond her comprehension how there could be such a large bill when you say it was not metered because the record she was given at city hall stated "meter read". Huff explained that the physical meter was registering but the remote which the meter reader was using was not.

Stickland asked where the meter is to which Miller responded that the meter is in the parkway in a pit.

Burr asked whether there was zero consumption on the billing. Hochstedler explained the initial bill Miller received for \$828.96 included all usage; that because this was not a leak Miller was initially billed from the time that it was not being read by the remote. Then it was brought to Hochstedler's attention who suggested that Miller only be billed for twelve (12) months. Miller responded that on Friday she got a reminder notice for the \$828.96 bill. Then on Saturday she received a corrected bill of \$252.65 which Hochstedler confirmed as the twelve (12) month updated billing. Stickland reiterated that if there is a billing error the policy says the city can only bill for the past twelve (12) months.

Miller said she pays over \$32.00 a month even though she is not there most of the year. Discussion ensued regarding the \$32.00 being the stand-by charges which are charged to everyone whether or not there is usage.

Miller was advised that all she needs to pay is the corrected billing amount of \$252.65.

Burr asked whether the remotes are reconciled annually at which Stickland raised the question, "Do we have a way to check whether the bills are out of range?" Halberstadt noted that there are people who never use their sprinklers and get zero reads so a zero read does not raise a red flag.

REPORTS

6. Cost of Energy from Indiana-Michigan Power Company (AEP)

- A. 2015 Billings – All Charges
- B. 2014 Billings – All Charges

Stickland remarked on the cost of true-up and Burr commented that the average is still good.

7. Financial Reports

- A. Electric Fund – Financial Statement
- B. Electric Fund – Review of Percentage Billed
- C. Electric Fund – Capital Projects
- D. Water Fund – Financial Statement
- E. Water Fund – Review of Percentage Billed
- F. Sewer Fund – Financial Statement

Hochstedler noted she does not have the capital projects sheet. Winkel asked if there was an extra pay period; operating expenses were higher than anticipated. Halberstadt noted there were three pay periods in May.

Stickland asked if it is possible that the monthly expenditure on the sewer fund is higher than usual to which Hochstedler responded that she would have to check.

8. Unresolved Issues Report

Huff noted there is nothing new; said he has started to look into what needs to be added to the building services bulletin board about tampering. Hochstedler asked whether people who have now tampered three (3) times can be turned over to the Police Department since it is theft. Discussion ensued regarding whether we are authorized to penalize a customer. Stickland said stealing is an offense that you go to the Police Department to resolve to which Hochstedler responded that the city clerk is planning to call the Police Department.

9. SAW Grant Project Progress Report

Huff updated the board on Abonmarche's progress: continuing work on inventory; planning an area for additional sewer cleaning; have started design work on some individual projects.

In response to a question by Roberts, Halberstadt noted that "missing" manholes are often buried under landscaping or off pavement areas. Huff noted that Abonmarche initially went out and visually found as many as they could and entered them by GPS coordinates onto maps. Burr asked whether some of those "missing" manholes have been retired to which Halberstadt noted, "We need to go through the list and determine if those manholes are still there or were removed at some time."

Roberts asked whether there are any manholes at Sherman Hills to which Halberstadt responded Sherman Hills is not connected to the city sewer system and many of the manholes are uncovered. Halberstadt noted that this report covers both storm and sanitary sewers; this is the first ever effort the city has made to inventory our storm sewers.

Halberstadt noted that while the city has numerous old maps, staff is not sure whether everything on them actually exists.

Discussion ensued regarding a recent occurrence of water coming up on Center Street; whether that got corrected and if the city has plans to do infrastructure improvements when Center Street paving is done.

UNFINISHED BUSINESS

10. Board will be requested to review electric rates for the 2015-2016 fiscal year.

Stickland explained the idea is to recapture our costs and put the PJM (transmission) charges on a monthly cost adjustment because we have no way to predict what they will be. "Anything over and above five hundred thousand dollars (\$500,000) will become monthly adjustable, like fuel rates. These rates will affect your commodity charge. The biggest cost increase we had last year is transmission; that is not going to be fun if that continues next year. People are going to get some hefty cost adjustments," according to Stickland. Roberts wondered whether we are high enough to which Burr responded that we want to earn about six hundred thousand dollars (\$600,000) per year so that should cover it.

Hochstedler noted that they did add some wording that will be in the ordinance, which is where we have the "\$500,000 annually"; the number could change if needed.

Burr said we ran some comparisons with the City of Holland and with Consumers Energy. Holland was 11.7 per kilowatt hour and will have a rate increase of 3% starting July 1. Consumers Energy's rates are also higher than the city's rates. Discussion ensued regarding whether the increase will be enough. Stickland noted that if the cost goes up in a year the city will have to raise our rates; we want to keep our rates as low as we can and keep the system going.

Hochstedler asked if staff is going to start working on a five (5) year plan. Discussion ensued regarding projects coming up in the near future with Halberstadt noting that around year four is when you want to start a study. Burr commented that demand charges went up; residential customers supply the demand in June/July/August. Burr noted the trend in classifying by demand and non-demand meters.

Roberts asked whether we have checked other meters for multiplier errors like Meijer's problem and Huff noted they did check that right after the issue with the Meijer's meter.

Halberstadt explained the difference between Holland and South Haven being that Holland has generator and South Haven does not. Burr noted the Energy Optimization program is supposed to go away at the end of the year. Halberstadt stated, "We don't know that for sure. There is talk of phasing it out like it was phased in."

Motion by Roberts to recommend to City Council the draft ordinance as proposed to amend Section 86-36 rates for the city of South Haven as presented at today's Board of Public Utilities. Second by Winkel.

All in favor. Motion carried.

11. Board will be requested to review the DRAFT South Haven Area Water-Sewer Authority Contract (presented at the June 11, 2015 workshop) and provide comments.

After questions, Huff commented on the background information in the staff report for this item.

Roberts: Page 2, Section Q. What are those legally binding documents. Halberstadt said he believes that refers to the various ownerships of debt service. Stein noted that some of South Haven Township's bonds are underwritten by the township sewer/water authority and the rest are underwritten by the county. Stein said the Allegan one will expire in two (2) years; the county one will expire in four (4) years; there is another small one held by a bank.

Roberts: Page 3. Seven-member board, of which six members appoint a seventh member. Discussion ensued about how many members were discussed at the meeting; Stein noted that the make-up of the board is up for discussion.

It was noted that Covert will not be included in this discussion; there may be some contractual agreements with Covert in the future.

Roberts: Special meetings being called by officers; who are the officers? Stickland noted they would be members of the board elected to serve as President, Vice President, Secretary and Treasurer.

Roberts asked if the Covert Generating Facility water intake will be included as part of the assets to which Stickland responded yes.

Roberts: Page 8, section B. What is meant by "the county"? Stein said the County Board of Commissioners or the Road Commission.

Roberts questioned the city's rights as lessor to which Stickland stated it is the same as driving a leased car. Discussion ensued with examples.

Roberts: Page 10, Section 33. "This does not preclude SHAWSA providing . . . ". Stickland said if you are on an existing line you are a customer. Stein said this is outside the jurisdictional boundaries, so you could contract with them. Covert is going to be outside this and they would fit into this.

Roberts: Last sentence in Section 3.4. Halberstadt explained that if mains are being extended into Geneva Township, permission will have to be obtained from Geneva Township. It was noted that if the service is already there the SHAWSA can do the repairs. SHAWSA will have to negotiate with Geneva Township to do work in Geneva, not with all the other jurisdictions.

Stickland noted that the SHAWSA would run the plant, but the city would provide leased employees.

Roberts: Section 3-7. "Do we have people that have not been required to connect that will then have to be required to connect?" Stein stated that the township is working on this; we are down to about twenty (20) people who have not connected.

Roberts asked about easements for sewer and water. "Will SHAWSA be able to access the easements?" Halberstadt explained that newer easements will have a sentence at the end stating that the rights are assignable. Roberts asked if only a municipality can draw water from Lake Michigan, how can SHAWSA, to which Halberstadt responded that he would assume that SHAWSA would also be considered a municipal entity. Discussion ensued that this would be an attorney question. Stein stated there are about three different ways that municipalities can cooperate.

Discussion ensued regarding accounting procedures and tracking time.

NEW BUSINESS

12. Board will be requested to review the opt-out provision of Public Act 95 of 2013 and make a recommendation to City Council.

Stickland said this is the same as last year and nothing has changed. Burr explained that we do not participate as we do not do shut-offs during the time Public Act 95 of 2013 covers.

Motion by Burr, second by Winkel to recommend to City Council to opt out of Public Act 95 of 2013.

All in favor. Motion carried.

13. Board will be requested to review a request to grant an exception to Sec. 86-156 of the Code of Ordinances and make a recommendation to City Council.

This item was deleted during approval of the agenda.

14. Public Works Director Comments

A. Next Meeting is scheduled for July 27, 2015

Commented on last Wednesday's storm.

Huff asked whether anyone wants to discontinue getting paper copies. Burr said his could be placed in his mailbox at city hall. Stickland said he could pick his up.

15. Board Member Comments

There were none.

16. Adjourn

Motion by Winkel, second by Roberts to adjourn at 5:45 p.m.

All in favor. Motion carried.

RESPECTFULLY SUBMITTED,

Marsha Ransom
Recording Secretary

CITY OF SOUTH HAVEN																				
Cost of Electric Energy from Indiana-Michigan Power Company (AEP)																				
2015																				
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 1A \$ KWHR	\$ Network	RTO Start-up \$	Other	Credits			Total PJM
Main	13,385	3,245	13,773	0.9718	13,385	3,245	6,937,553	\$238,212.76	\$78,534.49											
Welder	357	279	453	0.7885	357	279	160,005	\$6,353.53	\$1,811.29											
Phoenix	10,017	2,509	10,326	0.9700	10,017	2,509	5,043,423	\$178,268.90	\$57,092.55											
Jun-15	23,759	6,033	24,513	0.9692	23,759	6,033	12,140,981	\$422,835.19	\$137,438.33	\$179,288.29	\$72,219.41	\$52,206.29	\$1,590.72	\$61,771.70	\$158.98	\$11,074.79	(\$566.12)	\$74,030.07	\$938,017.58	7.726
Main	12,069	2,877	12,407	0.9727	12,069	2,877	6,509,754	\$195,952.20	\$69,324.33											
Welder	352	256	435	0.8087	352	256	157,517	\$5,713.45	\$1,677.45											
Phoenix	9,449	2,710	9,829	0.9613	9,449	2,710	4,695,229	\$153,407.39	\$50,000.91											
May-15	21,870	5,843	22,636	0.9661	21,869	5,843	11,362,501	\$355,073.04	\$121,002.68	\$202,133.20	(\$26,051.94)	\$190,579.23	\$1,488.72	\$63,830.75	\$164.28	\$10,490.61	(\$563.53)	\$75,410.83	\$918,147.04	8.081
Main	10,537	1,286	10,615	0.9926	10,537	1,286	6,040,137	\$171,083.21	\$64,323.23											
Welder	390	310	498	0.7831	390	310	195,761	\$6,336.10	\$2,084.71											
Phoenix	7,096	851	7,147	0.9929	7,096	851	4,174,049	\$115,215.53	\$44,450.69											
Apr-15	18,023	2,446	18,189	0.9909	18,024	2,446	10,409,946	\$292,634.84	\$110,858.64	\$185,187.73	(\$1,746.79)	\$69,775.22	\$1,363.92	\$61,771.70	\$158.98	\$10,490.59	(\$618.08)	\$73,167.11	\$729,876.75	7.011
Main	11,515	1,311	11,589	0.9936	11,515	1,311	6,754,204	\$186,957.70	\$71,927.55											
Welder	332	28	333	0.9965	332	28	206,604	\$5,390.35	\$2,200.19											
Phoenix	8,000	1,092	8,074	0.9908	8,000	1,092	4,651,132	\$129,883.29	\$49,531.29											
Mar-15	19,847	2,430	19,995	0.9926	19,847	2,430	11,611,940	\$322,231.35	\$123,659.03	\$206,570.61	(\$8,109.78)	(\$5,469.59)	\$1,521.40	\$63,830.75	\$164.28	\$10,490.61	(\$872.04)	\$75,135.00	\$714,016.62	6.149
Main	12,184	1,570	12,285	0.9918	12,178	1,570	7,974,908	\$197,728.02	\$84,927.19											
Welder	408	367	548	0.7432	408	367	175,313	\$6,616.17	\$1,866.96											
Phoenix	8,257	1,195	8,343	0.9897	8,253	1,195	3,492,559	\$133,997.33	\$37,193.31											
Feb-15	20,849	3,132	21,083	0.9889	20,839	3,132	11,642,780	\$338,341.52	\$123,987.46	\$207,119.25	(\$51,728.87)	(\$41,147.55)	\$1,525.44	\$57,653.58	\$148.38	\$10,490.61	(\$1,135.22)	\$68,682.79	\$645,254.60	5.542
Main	12,325	1,739	12,447	0.9902	12,325	1,739	7,443,979	\$200,108.62	\$79,273.16											
Welder	331	309	453	0.7313	331	309	160,777	\$5,374.12	\$1,712.17											
Phoenix	8,581	1,288	8,677	0.9889	8,581	1,288	5,041,513	\$139,316.16	\$53,688.58											
Jan-15	21,237	3,336	21,497	0.9879	21,237	3,336	12,646,269	\$344,798.90	\$134,673.91	\$224,970.80	\$16,637.43	\$100,270.82	\$1,656.92	\$63,830.75	\$164.28	\$10,490.61	(\$994.22)	\$75,148.34	\$896,500.20	7.089

Year to Date 2015:

69,814,417

\$4,841,813 6.935

CITY OF SOUTH HAVEN																					
Cost of Electric Energy from Indiana-Michigan Power Company (AEP)																					
2014																					
Date	ACTUAL				BILLING			COST					PJM Open Access Transmission Tariff							Total Cost	cts/ KWH
	KW Demand	KVAR Demand	KVA	Power Factor	KW Demand	KVAR Demand	KWHRS	\$ KW Demand	\$ KWH	\$ Fuel Charge	\$ Fuel Adjust	Actual Fuel True-up	Sch 1A \$ KWHRS	\$ Network	RTO Start-up \$	Other	Credits	Total PJM			
Main	11,432	1,646	11,550	0.9898	11,432	1,646	7,085,827	\$185,609.79	\$75,459.10												
Welder	333	269	428	0.7774	333	269	153,577	\$5,398.47	\$1,635.48												
Phoenix	8,053	1,020	8,117	0.9921	8,053	1,020	4,768,206	\$130,748.35	\$50,778.06												
Welder	0	0	0		0	0	0	\$0.00	\$0.00												
Dec-14	19,818	2,935	20,034	0.9892	19,817	2,935	12,007,610	\$321,756.61	\$127,872.64	\$213,609.38	\$7,797.74	\$60,535.03	\$1,573.24	\$108,790.08	\$299.21	\$15,805.37	(\$1,585.52)	\$124,882.38	\$856,453.78	7.133	
Main	12,007	1,673	12,123	0.9904	12,003	1,673	6,729,178	\$194,883.96	\$71,661.03												
Welder	352	355	500	0.7036	352	355	123,903	\$5,706.95	\$1,319.48												
Phoenix	7,901	939	7,957	0.9930	7,899	939	4,543,741	\$128,253.03	\$48,387.66												
Welder	6	7	9	0.6658	6	7	4,150	\$94.17	\$44.19												
Nov-14	20,266	2,973	20,483	0.9894	20,260	2,973	11,400,971	\$328,938.11	\$121,412.36	\$202,817.57	(\$65,271.70)	(\$1,364.06)	\$1,493.76	\$105,280.72	\$289.56	\$16,026.12	(\$1,439.90)	\$121,650.26	\$708,182.54	6.212	
Main	18,379	4,189	18,850	0.9750	18,369	4,189	9,061,510	\$298,233.08	\$96,498.74												
Welder	309	284	420	0.7354	309	284	142,496	\$5,010.43	\$1,517.48												
Phoenix	10	24	25	0.3782	5	24	2,118,777	\$74.69	\$22,563.49												
Welder	6	7	9	0.6658	6	7	4,282	\$94.17	\$45.60												
Oct-14	18,703	4,503	19,238	0.9722	18,688	4,503	11,327,065	\$303,412.36	\$120,625.31	\$201,502.82	(\$33,179.24)	\$16,236.53	\$1,484.08	\$108,790.08	\$299.21	\$17,152.73	(\$1,357.26)	\$126,368.84	\$734,966.62	6.489	
Main	16,115	5,015	16,877	0.9548	16,112	5,015	8,006,033	\$261,594.43	\$85,258.65												
Welder	265	254	367	0.7230	265	254	131,837	\$4,307.41	\$1,403.97												
Phoenix	11,860	4,871	12,821	0.9250	11,857	4,871	3,682,892	\$192,514.47	\$39,220.22												
Welder	6	7	9	0.6658	6	7	4,144	\$94.17	\$44.13												
Sep-14	28,246	10,146	30,013	0.9411	28,240	10,146	11,824,906	\$458,510.48	\$125,926.97	\$210,359.17	(\$46,334.71)	\$11,060.21	\$1,549.30	\$105,280.72	\$289.56	\$17,328.13	(\$1,342.88)	\$123,104.83	\$882,626.95	7.464	
Main	17,344	5,375	18,158	0.9552	17,344	5,375	8,324,249	\$281,597.27	\$88,647.42												
Welder	358	342	495	0.7237	358	342	116,920	\$5,814.11	\$1,245.12												
Phoenix	12,794	5,443	13,903	0.9202	12,794	5,443	6,038,441	\$207,716.97	\$64,305.17												
Welder	8	17	19	0.4368	8	17	6,431	\$136.33	\$68.49												
Aug-14	30,504	11,177	32,487	0.9390	30,504	11,177	14,486,040	\$495,264.73	\$154,266.19	\$257,699.41	(\$38,669.04)	\$30,716.83	\$1,897.97	\$108,790.05	\$299.21	\$16,772.20	(\$1,567.24)	\$126,192.19	\$1,025,470.31	7.079	
Main	16,930	5,025	17,660	0.9587	16,930	5,025	7,907,886	\$274,875.40	\$84,213.45												
Welder	251	125	280	0.8945	251	125	130,862	\$4,070.37	\$1,393.59												
Phoenix	12,527	4,460	13,298	0.9421	12,527	4,460	5,672,349	\$203,391.54	\$60,406.54												
Welder	8	18	20	0.4307	8	18	6,555	\$136.38	\$69.80												
Jul-14	29,716	9,628	31,237	0.9513	29,716	9,628	13,717,651	\$482,473.68	\$146,083.38	\$244,030.16	(\$44,811.45)	\$27,682.40	\$1,797.29	\$108,790.05	\$299.21	\$16,658.83	(\$1,607.15)	\$125,938.23	\$981,396.40	7.154	
Main	16,223	4,553	16,850	0.9628	16,223	4,553	7,323,514	\$263,396.55	\$77,990.30												
Welder	10	22	24	0.4238	10	22	131,334	\$165.61	\$1,398.61												
Phoenix	12,192	4,498	12,996	0.9382	12,192	4,498	5,285,671	\$197,955.73	\$56,288.70												
Welder	8	19	20	0.4134	8	19	6,421	\$136.38	\$68.38												
Jun-14	28,434	9,092	29,852	0.9525	28,434	9,092	12,746,939	\$461,654.26	\$135,745.98	\$226,761.68	(\$44,703.52)	\$23,664.10	\$1,092.76	\$89,707.48	\$289.56	\$13,460.59	(\$1,301.93)	\$103,248.46	\$906,370.96	7.110	
Main	12,148	2,693	12,443	0.9763	12,148	2,693	6,470,207	\$199,737.00	\$62,245.98												
Welder	242	210	321	0.7548	242	210	137,320	\$3,980.61	\$1,321.07												
Phoenix	9,104	2,965	9,575	0.9508	9,104	2,965	4,589,361	\$149,685.91	\$44,151.48												
Welder	9	25	27	0.3318	9	25	6,845	\$146.33	\$65.85												
May-14	21,503	5,894	22,296	0.9644	21,503	5,894	11,203,733	\$353,549.86	\$107,784.39	\$168,627.37	(\$13,600.21)	\$16,585.82	\$960.46	\$92,697.73	\$299.21	\$11,967.29	(\$1,309.38)	\$104,615.31	\$737,562.54	6.583	
Main	11,035	2,280	11,268	0.9793	11,035	2,280	6,200,288	\$181,437.72	\$59,649.25												
Welder	275	340	437	0.6288	275	340	140,285	\$4,518.26	\$1,349.59												
Phoenix	7,223	155	7,225	0.9998	7,223	155	4,026,846	\$118,767.39	\$38,739.87												
Welder	9	23	25	0.3693	9	23	6,598	\$149.62	\$63.48												
Apr-14	18,542	2,798	18,752	0.9888	18,542	2,798	10,374,017	\$304,872.99	\$99,802.19	\$156,139.32	(\$11,636.53)	(\$12,558.64)	\$889.33	\$89,707.48	\$289.56	\$11,967.29	(\$1,364.68)	\$101,488.98	\$638,108.31	6.151	
Main	11,756	1,283	11,826	0.9941	11,756	1,283	6,923,540	\$193,291.82	\$66,607.22												
Welder	242	304	388	0.6216	242	304	140,739	\$3,970.74	\$1,353.96												
Phoenix	7,975	1,170	8,060	0.9894	7,975	1,170	4,701,765	\$131,124.62	\$45,232.86												
Welder	9	26	27	0.3239	9	26	6,989	\$146.33	\$67.24												
Mar-14	19,981	2,784	20,174	0.9904	19,981	2,784	11,773,033	\$328,533.52	\$113,261.29	\$177,195.92	(\$10,877.11)	(\$44,950.65)	\$1,009.27	\$92,697.73	\$299.21	\$11,967.29	(\$1,935.73)	\$104,037.77	\$667,200.74	5.667	
Main	11,651	1,530	11,751	0.9915	11,651	1,530	6,719,607	\$191,565.41	\$64,645.31												
Welder	371	312	485	0.7652	371	312	141,182	\$6,098.34	\$1,358.23												
Phoenix	8,190	1,078	8,261	0.9915	8,190	1,078	4,543,059	\$134,666.23	\$43,706.04												
Welder	9	22	24	0.3867	9	22	6,223	\$149.62	\$59.87												
Feb-14	20,221	2,941	20,434	0.9896	20,221	2,941	11,410,071	\$332,479.60	\$109,769.45	\$171,732.98	\$19,759.96	(\$46,438.54)	\$978.15	\$83,726.98	\$270.26	\$11,967.30	(\$1,743.34)	\$95,199.35	\$682,502.80	5.982	
Main	12,263	1,559	12,362	0.9920	12,263	1,559	7,522,565	\$201,628.25	\$72,370.09												
Welder	333	300	448																		

City of South Haven
Electric Fund - Fund 582
For the period ended June 30, 2015

Col 6 & 11

Revenues:	Month Actual	Monthly Budget	Prior year MTD	MTD Variance to Budget	MTD Variance to Prior Year	YTD Actual	YTD Budget	Prior YTD Actual	Variance to Budget	Variance to Prior Year	2014-15 Adopted Budget	% of Annual Budget
Electric Sales	\$ 1,135,698	\$ 1,172,809	\$ 755,772	\$ (37,111)	\$ 379,926	\$ 13,448,989	\$ 14,073,702	\$ 13,772,317	\$ (624,713)	\$ (323,328)	\$ 14,073,702	96%
Charges for Service	\$ (4,529)	\$ 8,333	\$ (61,661)	\$ (12,862)	\$ 57,132	\$ 79,689	\$ 100,000	\$ 140,438	\$ (20,311)	\$ (60,749)	\$ 100,000	80%
Interest Income	\$ 173,003	\$ 6,667	\$ (29,536)	\$ 166,337	\$ 202,539	\$ 247,961	\$ 80,000	\$ 42,817	\$ 167,961	\$ 205,143	\$ 80,000	310%
Other Revenue	\$ 4,465	\$ 3,333	\$ (1,274)	\$ 1,131	\$ 5,739	\$ 37,788	\$ 40,000	\$ 59,261	\$ (2,212)	\$ (21,473)	\$ 40,000	94%
Transfers In	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
Total Revenues	\$ 1,308,637	\$ 1,191,142	\$ 663,301	\$ 117,495	\$ 645,336	\$ 13,814,427	\$ 14,293,702	\$ 14,014,833	\$ (479,275)	\$ (200,406)	\$ 14,293,702	

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Expenses	Month Actual	Monthly Budget	Prior year MTD	MTD Variance to Budget	MTD Variance to Prior Year	YTD Actual	YTD Budget	Prior YTD Actual	Variance to Budget	Variance to Prior Year	2014-15 Adopted Budget	% of Annual Budget
Purchased Power	\$ 1,127,111	\$ 800,000	\$ 906,371	\$ 327,111	\$ 220,740	\$ 10,030,869	\$ 9,600,000	\$ 9,562,453	\$ 430,869	\$ 468,417	\$ 9,600,000	104%
Other Operating Expenses	\$ 266,166	\$ 148,018	\$ 29,425	\$ 118,148	\$ 236,741	\$ 1,969,036	\$ 1,776,217	\$ 1,802,778	\$ 192,819	\$ 166,258	\$ 1,776,217	111%
Property Tax Equivalents	\$ 59,557	\$ 59,557	\$ 84,293	\$ (0)	\$ (24,736)	\$ 714,685	\$ 714,685	\$ 713,887	\$ -	\$ 798	\$ 714,685	100%
Energy Optimization Costs	\$ 21,100	\$ 23,208	\$ 23,141	\$ (2,109)	\$ (2,041)	\$ 276,928	\$ 278,500	\$ 271,119	\$ (1,572)	\$ 5,810	\$ 278,500	99%
Capital Outlay	\$ 136,311	\$ 345,750	\$ (201,215)	\$ (209,439)	\$ 337,526	\$ 4,283,779	\$ 4,149,000	\$ -	\$ 134,779	\$ 4,283,779	\$ 4,149,000	103%
Transfer Out	\$ 14,025	\$ 14,025	\$ 14,754	\$ 0	\$ (729)	\$ 168,301	\$ 168,301	\$ 177,049	\$ -	\$ (8,748)	\$ 168,301	100%
Depreciation	\$ 55,873	\$ 55,873	\$ 39,510	\$ -	\$ 16,363	\$ 670,478	\$ 670,478	\$ 474,124	\$ -	\$ 196,354	\$ 670,478	100%
Administrative Expenses	\$ 52,257	\$ 62,761	\$ 49,021	\$ (10,504)	\$ 3,235	\$ 723,335	\$ 753,126	\$ 674,593	\$ (29,791)	\$ 48,742	\$ 753,126	96%
Total Expenses	\$ 1,732,399	\$ 1,509,192	\$ 945,301	\$ 223,207	\$ 787,098	\$ 18,837,412	\$ 18,110,307	\$ 13,676,003	\$ 727,105	\$ 5,161,409	\$ 18,110,307	

Net Fund Change \$ (423,762) \$ (318,050) \$ (282,000) \$ (105,711) \$ (141,762) \$ (5,022,985) \$ (3,816,605) \$ 338,829 \$ (1,206,380) \$ (5,361,815) \$ (3,816,605)

AS OF JUNE 30, 2014	
Retained Earnings	\$ 17,951,744
Less Net Capital Assets	\$ (11,195,364)
Net Undesignated Reserves	\$ 6,756,380

The Difference here is the addition of new capital assets less new depreciation for FY 15

PROJECTED AS OF JUNE 30, 2015	
Retained Earnings - I Beginning of yr	\$ 17,951,744
Projected Net Income (see below) FY 15	\$ (739,207)
Less Net Capital Assets	\$ (14,808,665)
Net Undesignated Reserves	\$ 2,403,872

The 2015 Budget figures include the projects approved by the BPU to date and a revised depreciation figure
The capital outlay also includes WI FI project costs - DPW Storage building and Office renovations have been removed

Year end audit adjustments - not expenses on Income statement



FY 2015 Revenues	\$ 13,814,427
FY 2015 Expenses	\$ (18,837,412)
Net Fund Change	\$ (5,022,985)
Add back Investment in Capital Assets	\$ 4,283,779
Projected Net Income	\$ (739,207)

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 2013									
July	2012	17,466,170	14,702,549	38,276	52,303	14,740,825	93.26%	84.40%	31
August	2012	14,358,453	15,845,089	43,385	52,376	15,888,474	93.50%	110.66%	31
September	2012	11,481,145	12,211,557	48,595	52,463	12,260,152	94.22%	106.79%	30
October	2012	10,545,910	9,741,443	54,699	52,284	9,796,142	94.11%	92.89%	31
November	2012	10,466,158	10,312,656	61,617	52,287	10,374,273	94.68%	99.12%	30
December	2012	11,131,795	9,798,623	69,065	52,368	9,867,688	94.46%	88.64%	31
January	2013	11,560,064	10,621,867	68,768	52,615	10,690,635	94.14%	92.48%	31
February	2013	10,550,434	10,544,686	59,658	52,705	10,604,344	94.21%	100.51%	29
March	2013	11,110,656	10,170,132	53,004	52,242	10,223,136	93.95%	92.01%	31
April	2013	10,233,332	9,906,424	48,201	52,313	9,954,625	94.19%	97.28%	30
May	2013	11,168,009	10,537,176	44,120	52,288	10,581,296	94.78%	94.75%	31
June	2013	11,593,465	10,064,318	37,708	52,258	10,102,026	95.35%	87.14%	30
		<u>141,665,592</u>	<u>134,456,520</u>	<u>627,096</u>		<u>135,083,616</u>			
FISCAL 2014									
July	2013	14,702,976	12,364,189	37,740	52,213	12,401,929	94.64%	84.35%	31
August	2013	13,559,712	13,582,248	42,342	52,126	13,624,590	94.42%	100.48%	31
September	2013	11,670,399	12,462,283	48,796	52,143	12,511,079	95.03%	107.20%	30
October	2013	10,945,398	10,453,792	54,475	52,125	10,508,267	94.91%	96.01%	31
November	2013	10,657,150	9,502,492	58,511	51,866	9,561,003	94.96%	89.71%	30
December	2013	11,962,287	10,244,088	71,063	52,032	10,315,151	94.68%	86.23%	31
January	2014	12,608,593	10,959,716	65,878	51,791	11,025,594	94.12%	87.45%	31
February	2014	11,410,071	12,066,200	59,636	51,790	12,125,836	94.72%	106.27%	29
March	2014	11,773,033	10,878,414	54,626	51,925	10,933,040	94.54%	92.87%	31
April	2014	10,374,016	10,020,033	48,541	51,953	10,068,574	94.63%	97.06%	30
May	2014	11,203,732	10,614,984	44,334	51,971	10,659,318	94.97%	95.14%	31
June	2014	12,746,940	11,082,867	39,220	52,097	11,122,087	93.90%	87.25%	30
		<u>143,614,306</u>	<u>134,231,306</u>	<u>625,162</u>		<u>134,856,468</u>			
FISCAL 2015									
July	2014	13,717,651	12,578,551	38,129	52,129	12,616,680	93.99%	91.97%	31
August	2014	14,486,040	12,740,027	42,644	52,154	12,782,671	93.13%	88.24%	31
September	2014	11,824,906	13,323,234	48,696	52,146	13,371,930	93.87%	113.08%	30
October	2014	11,327,065	11,109,952	55,667	52,245	11,165,619	94.22%	98.57%	31
November	2014	11,400,971	10,662,987	62,443	52,573	10,725,430	94.56%	94.07%	30
December	2014	12,007,610	11,126,842	67,163	52,248	11,194,005	94.83%	93.22%	31
January	2015	12,646,269	11,962,202	63,831	52,078	12,026,033	94.37%	95.10%	31
February	2015	11,642,781	11,272,243	59,367	52,055	11,331,610	94.56%	97.33%	29
March	2015	11,611,940	10,475,991	55,391	52,119	10,531,382	94.30%	90.69%	31
April	2015	10,409,946	10,889,321	49,374	52,188	10,938,695	94.67%	105.08%	30
May	2015	11,362,501	10,551,097	43,678	52,134	10,594,775	94.96%	93.24%	31
June	2015	12,140,981	10,457,881	38,776	52,097	10,496,657	95.29%	86.46%	30
		<u>144,578,660</u>	<u>137,150,328</u>	<u>625,159</u>		<u>137,775,487</u>			
Prior Year-to-date		143,614,306	134,231,306	625,162		134,856,468			
Two Years Prior		141,665,592	134,456,520	627,096		135,083,616			

City of South Haven
Water Fund - Fund 591
For the period ended June 30, 2015

Col 6 & 11

Revenues:	Month Actual	Monthly Budget	Prior year MTD	MTD Variance to Budget	MTD Variance to Prior Year	YTD Actual	YTD Budget	Prior YTD Actual	Variance to Budget	Variance to Prior Year	2014-15 Adopted Budget	% of Annual Budget
Sales	\$ 294,259	\$ 312,265	\$ 321,003	\$ (18,006)	\$ (26,744)	\$ 3,598,437	\$ 3,747,178	\$ 3,708,126	\$ (148,741)	\$ (109,689)	\$ 3,747,178	96%
Charges for Service	15,779	5,833	2,277	9,945	13,502	57,373	70,000	57,304	(12,627)	69	70,000	82%
Interest Income	2,090	167	1,972	1,923	118	7,526	2,000	1,653	5,526	5,873	2,000	376%
Special Assessment Revenue	12,602	958	22,371	11,644	(9,769)	12,614	11,500	62,425	1,114	(49,811)	11,500	110%
Other Revenue	322	2,917	1,296	(2,594)	(974)	46,849	35,000	43,335	11,849	3,514	35,000	134%
Total Revenues	\$ 325,052	\$ 322,140	\$ 348,918	\$ 2,912	\$ (23,866)	\$ 3,722,798	\$ 3,865,678	\$ 3,872,842	\$ (142,880)	\$ (150,044)	\$ 3,865,678	

Expenses:	Month Actual	Monthly Budget	Prior year MTD	MTD Variance to Budget	MTD Variance to Prior Year	YTD Actual	YTD Budget	Prior YTD Actual	Variance to Budget	Variance to Prior Year	2014-15 Adopted Budget	% of Annual Budget
Operating Expenses	\$ 227,863	\$ 128,078	\$ (5,777)	\$ 99,785	\$ 233,639	\$ 1,531,445	\$ 1,536,934	\$ 1,338,643	\$ (5,489)	\$ 192,802	\$ 1,536,934	100%
Property Tax Equivalents	16,107	16,107	63,070	-	(46,963)	193,284	193,284	154,914	-	38,370	193,284	100%
Capital Outlay	11,200	18,024	(2,012)	(6,824)	13,212	214,474	216,285	-	(1,811)	214,474	216,285	99%
Debt Service	(2,093)	124,859	(514,173)	(126,952)	512,080	1,495,418	1,498,311	936,500	(2,893)	558,919	1,498,311	100%
Transfers Out	1,147	404	27,311	744	(26,164)	4,814	4,843	29,145	(29)	(24,331)	4,843	99%
Depreciation	50,703	50,703	16,307	-	34,396	608,435	608,435	195,684	-	412,751	608,435	100%
Administrative Expenses	12,462	19,858	16,990	(7,396)	(4,528)	230,073	238,292	217,472	(8,219)	12,602	238,292	97%
Total Expenses	\$ 317,388	\$ 358,032	\$ (398,284)	\$ (40,644)	\$ 715,672	\$ 4,277,944	\$ 4,296,384	\$ 2,872,357	\$ (18,440)	\$ 1,405,586	\$ 4,296,384	

Net Fund Change \$ 7,664 \$ (35,892) \$ 747,202 \$ 43,556 \$ (739,538) \$ (555,145) \$ (430,706) \$ 1,000,485 \$ (124,439) \$ (1,555,630) \$ (430,706)

AS OF JUNE 30, 2014

Retained Earnings	\$ 7,685,404
Less Contributed Capital	\$ (2,093,205)
Less Net Capital Assets	\$ (5,175,140)
Net Undesignated Reserves	\$ 417,059

The Difference here is the addition of new capital assets less new depreciation for FY 15

PROJECTED AS OF JUNE 30, 2015

Retained Earnings - Beg of Year	\$ 7,685,404
Less Contributed Capital	\$ (2,093,205)
Projected Net Income (see below) FY 15	\$ 239,329
Less Net Capital Assets	\$ (4,781,179)
Net Undesignated Reserves	\$ 1,050,349

The 2015 Budget figures include the projects approved by the BPU to date and a revised depreciation figure
The capital outlay includes some equipment and Dyckman Ave costs

Year end audit adjustments - not expenses on Income statement →
Year end audit adjustments - not expenses on Income statement →

FY 2015 Revenues	\$ 3,722,798
FY 2015 Expenses	\$ (4,277,944)
Add back principal portion of debt service	\$ 580,000
Add back Investment in Capital Assets	\$ 214,474
Projected Net Income(Loss)	\$ 239,329

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 2013								
July	2012	97,223,000	12,997,727	42,043	149,172	9,601,173	81.95%	74.19%
August	2012	73,095,000	9,772,059	40,244	227,566	10,549,444	83.36%	108.37%
September	2012	51,928,000	6,942,246	36,348	218,946	7,875,634	84.80%	113.97%
October	2012	37,774,000	5,050,000	27,350	259,447	4,949,605	85.50%	98.55%
November	2012	28,082,000	3,754,278	16,894	255,838	3,275,439	86.15%	87.70%
December	2012	27,941,000	3,735,428	34,835	160,400	3,150,827	86.30%	85.28%
January	2013	29,090,000	3,889,037	35,639	83,007	3,204,712	86.22%	83.32%
February	2013	27,257,000	3,643,984	25,791	72,180	3,368,685	86.69%	93.15%
March	2013	28,716,000	3,839,037	30,416	75,789	2,955,708	87.40%	77.78%
April	2013	27,256,000	3,643,850	38,784	79,398	3,120,869	88.84%	86.71%
May	2013	44,617,270	5,964,876	52,314	342,855	3,962,497	88.14%	66.43%
June	2013	52,158,000	6,972,995	57,485	312,780	5,366,701	91.24%	76.96%
		<u>525,137,270</u>	<u>70,205,517</u>	<u>438,141</u>	<u>2,237,378</u>	<u>61,381,294</u>		
FISCAL 2014								
July	2013	70,321,000	9,401,203	62,968	127,844	6,705,606	88.48%	72.00%
August	2013	62,517,000	8,357,888	48,003	196,427	8,322,168	88.81%	100.15%
September	2013	52,536,000	7,023,529	43,984	192,916	7,118,311	89.52%	101.98%
October	2013	35,699,000	4,772,594	41,176	182,891	5,303,775	90.51%	111.99%
November	2013	28,029,000	3,747,193	37,834	99,473	3,426,297	90.79%	92.45%
December	2013	28,262,000	3,778,342	37,166	178,083	2,904,054	90.43%	77.84%
January	2014	36,931,000	4,937,299	40,642	145,998	3,089,262	89.82%	63.39%
February	2014	36,711,000	4,907,888	36,230	128,741	3,454,550	89.24%	71.13%
March	2014	36,506,000	4,880,481	37,567	40,914	3,251,264	89.19%	67.39%
April	2014	29,869,000	3,993,182	33,957	57,952	3,321,979	89.46%	84.04%
May	2014	40,638,000	5,432,888	31,283	70,598	4,278,590	89.10%	78.75%
June	2014	53,611,000	7,167,246	37,032	100,575	5,543,066	85.86%	77.34%
		<u>511,630,000</u>	<u>68,399,733</u>	<u>487,843</u>	<u>1,522,412</u>	<u>56,718,922</u>		
FISCAL 2015								
July	2014	64,316,000	8,598,396	38,503	126,739	6,932,597	84.35%	81.07%
August	2014	66,789,000	8,929,011	42,246	34,492	7,841,235	83.45%	88.29%
September	2014	44,601,000	5,962,701	36,096	100,277	6,663,068	84.55%	112.35%
October	2014	33,430,000	4,469,251	34,492	117,932	4,619,497	85.38%	104.13%
November	2014	29,363,000	3,925,535	34,091	102,686	3,359,059	86.24%	86.44%
December	2014	28,908,000	3,864,706	35,294	67,388	3,125,243	86.64%	81.78%
January	2015	31,306,000	4,185,294	35,561	83,432	4,170,131	87.89%	100.49%
February	2015	28,322,000	3,786,364	34,091	81,219	4,470,432	88.98%	118.97%
March	2015	31,937,000	4,269,652	34,091	40,910	3,087,632	88.83%	73.11%
April	2015	29,525,000	3,947,193	31,551	56,153	3,393,749	89.38%	86.78%
May	2015	39,633,000	5,298,529	35,963	54,549	3,758,939	88.68%	70.94%
June	2015	47,141,000	6,302,273	30,749	60,965	4,655,896	90.38%	73.88%
		<u>475,271,000</u>	<u>63,538,904</u>	<u>422,727</u>	<u>926,742</u>	<u>56,077,478</u>		
Prior Year-to-date		511,630,000	68,399,733	487,843	1,522,412	56,718,922		
Two Years Prior		525,137,270	70,205,517	438,141	2,237,378	61,381,294		



City of South Haven

Agenda Item #8

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

- 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 IMMMA members plus Holland, Lowell, and Coldwater. Policies have been received from Bluffton, IN; Coldwater, MI; Holland BPW; Lowell Light & Power; Niles, MI; Sturgis, MI; Zeeland BPW. These policies will be compiled and summarized and distributed to staff and the BPU for review and comment. Updating the Public Utilities Rules, Regulations and Policies (and Code of Ordinances) is one of City Council's adopted priorities for 2014-15.
- 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 board available for posting notices. Suggestion was made to add it to the building permit form or instructions. Start with the City and then work with the townships.

Date: July 22, 2015

To: Roger Huff, PE

From: Timothy Drews, PE

Re: South Haven SAW Grant – Asset Management Plan Status Report

The following is intended to provide you with a project status report:

Accomplishments to Date

1. Inventory

- A list of “missing” manholes was received from the city. We have completed shots on what could be found. There are approximately 100 manholes that are buried and/or missing and could not be located.
- City staff has provide maps of storm sewer outlet pipes that will be located with condition assessments.

2. Condition Assessment

- MACP (manhole) inspections have continued. We have inspected approximately 1125 manholes to-date in the areas highlighted on the attached map. This work continues with an emphasis on storm manholes first.
- CCTV work – A request for quotes was forwarded to Plummer's for the CCTV pilot program, and cleaning the main lift station wet well in conjunction with pump repairs. Plummer's has indicated that they will not be able to start this work until early October. We will discuss if the city still wants to proceed with Plummer's at our July SAW progress meeting.

3. Level of Service

- Not yet started

4. Criticality of Assets

- Not yet started

5. O&M Strategies

- Burton and Associates is under contract and have started analysis related to the rate structures.

6. Other Costs

- Asset Management software presentations were held with CityWorks and Cartegraph in April. We are investigating other software options (Innovyze, Mapcon, and others). Purchase of the software is pending a final choice.

Upcoming Work

- SAW Progress meeting is scheduled for June 27th at 10:30 a.m. at DPW
- Gathering remaining manhole inventory shots – determine priorities
- Continue MACP inspections.
- Initiate storm water outlet inspections
- CCTV pilot program with Plummer's (October?), plus develop an RFP for the comprehensive CCTV work (with sewer cleaning option by the city)
- Initiate discussions regarding level of service and criticality of assets.
- Coordinate efforts with HRC for lift station evaluations – October NPDES submittal.

Scope Changes

- Eliminate Storm Sewer System Metering and Modeling and re-allocate those funds to other Asset Management efforts.

Budget Status

	Budget	Invoiced to Date	Percent Complete
Overall Asset Management Budget	\$1,115,264	\$197,535.26	17.7%
Abonmarche Tasks	\$555,197	\$197,535.26	35.6%
CCTV Work	\$299,397	\$0	0%
Other Sub-consultants	\$38,000	\$0	0%
Software/hardware/training	\$38,000	\$0	0%
City Admin Tasks	\$35,120		
City Pre-cleaning Sewers	\$150,000		

Note: Overall city match for the SAW grant is \$300,332 (per grant award – Cindy Clendenon email dated 05/22/15)

Schedule Status

The projected completion date for the Asset Management plan is anticipated by May 1, 2016

Information Needed from City

- List of projects completed in the past 10-15 years



Other Issues

- Separate progress reports will be submitted for SAW design related work

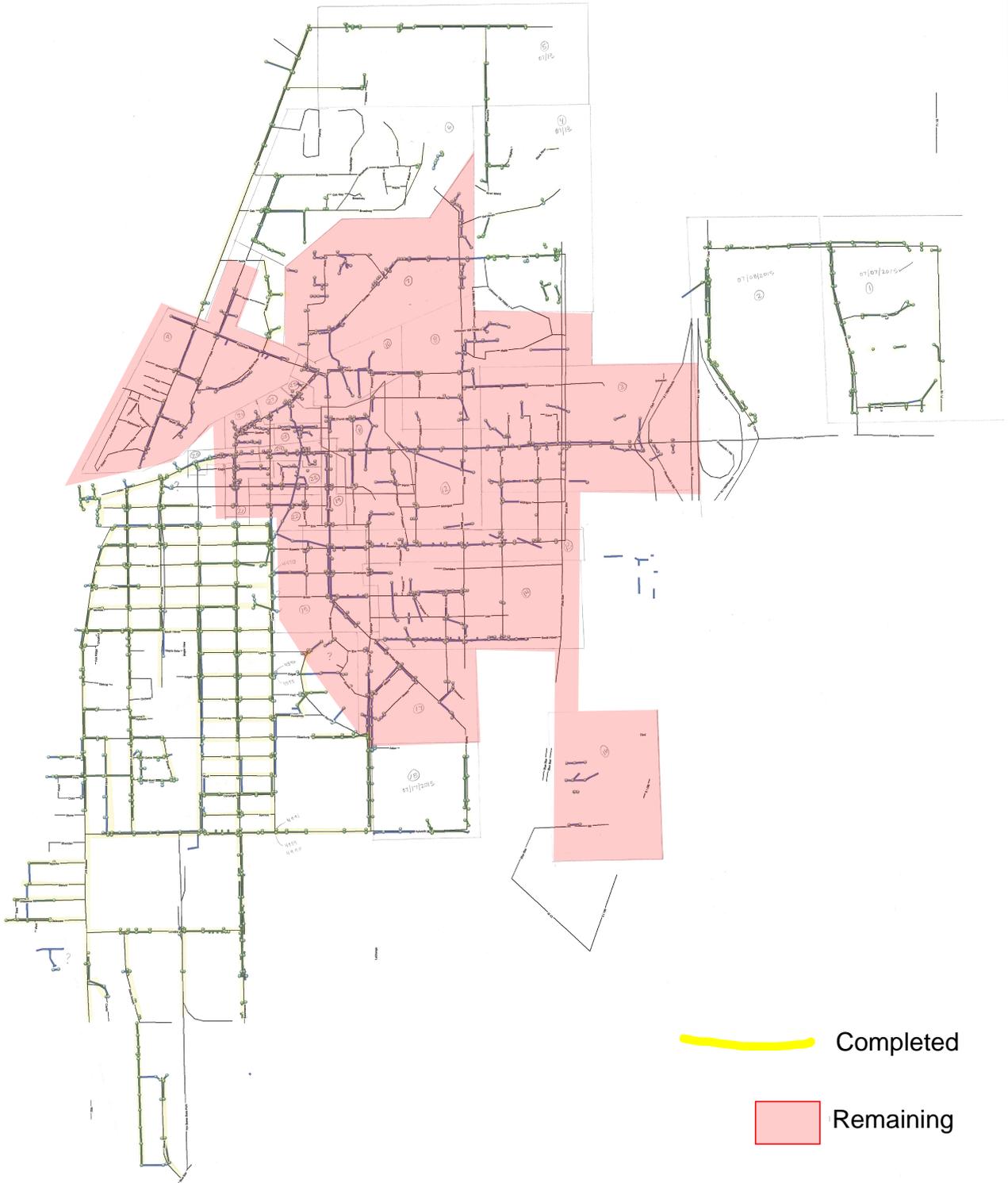
cc: Brian Dissette, City of South Haven
Larry Halberstadt, City of South Haven
Cindy Clendenon, MDEQ
Christopher Cook, Abonmarche
Tony McGhee, Abonmarche



South Haven Inspection Completion Status

July 27, 2015

BPU
Regular Meeting Agenda



Legend

- Storm Structures
- SH_Roads
- Storm Line

-  Completed
-  Remaining



City of South Haven, MI



Electric Outage Report 2nd Quarter 2015

South Haven Electric Distribution System

MONTHLY OUTAGE REPORT

General Information				Cause		Time & Duration				Customers	
#	Date	S/U	Address/Location	Description	#	Ints	T off	T on	Mins	# Out	Cust Min
1	4/4/2015	U	216 North St	Bad Connection	10	1	4/4/15 2:20 PM	4/4/15 3:30 PM	70	1	70
2	4/6/2015	U	906 Monroe Blvd	Bad Underground	2	1	4/6/15 2:05 PM	4/6/15 4:00 PM	115	2	230
3	4/7/2015	U	N. Bailey Ave	Line Fuse - Bad Arrestor	10	1	4/7/15 1:45 PM	4/7/15 2:50 PM	65	19	1235
4	4/7/2015	U	1012 St Joseph St	Fuse - Squirrel	4	1	4/7/15 3:40 PM	4/7/15 6:40 PM	180	14	2520
5	4/9/2015	U	7229 Baseline Rd	Bad cutout on line & fuse lightning	3	1	4/9/15 10:20 PM	4/10/15 1:30 AM	190	26	4940
6	4/10/2015	U	742 Hiways	Bad Connection	10	1	4/10/15 2:45 PM	4/10/15 4:00 PM	75	1	75
7	4/12/2015	U	508 Lena Dr	Bad Underground Service	2	1	4/12/15 1:40 PM	4/12/15 4:45 PM	185	1	185
8	4/13/2015	U	Elkenburg St & Monroe Blvd	Linefuse - Tree Limb on Primary Line	5	1	4/13/15 4:25 PM	4/13/15 6:55 PM	150	34	5100
9	4/13/2015	U	410 Spencer St	Bad Fuse - Lightning	3	1	4/13/15 6:20 PM	4/13/15 9:40 PM	200	14	2800
10	4/14/2015	U	840 St Joseph St	Bad Fuse - Lightning	3	1	4/14/15 2:25 AM	4/14/15 4:55 AM	150	17	2550
11	4/14/2015	U	760 Monroe Blvd	Bad Primary Elbow	1	1	4/14/15 2:30 PM	4/14/15 7:05 PM	275	23	6325
12	4/18/2015	U	72652 CR 380	Bad Connection	10	1	4/18/15 8:50 AM	4/18/15 10:10 AM	80	1	80
13	4/20/2015	U	74868 14th Ave	Fuse Squirrel	4	1	4/20/15 2:35 PM	4/20/15 3:50 PM	75	16	1200
14	4/22/2015	U	70434 6th Ave	Fuse Squirrel	4	1	4/22/15 11:45 PM	4/23/15 1:35 AM	110	17	1870
15	4/20/2015	U	914 Monroe Blvd	Bad Underground	2	1	4/20/15 8:15 AM	4/20/15 12:45 PM	270	3	810
16	4/20/2015	U	Jackson Blvd	Bad Connection	10	1	4/20/15 1:30 PM	4/20/15 3:10 PM	100	1	100
17	4/20/2015	U	71043 M-43 Hwy	Bad Connection	10	1	4/20/15 2:25 PM	4/20/15 4:15 PM	110	4	440
18	4/21/2015	U	77 Park Ave	Bad Connection	10	1	4/21/15 8:00 AM	4/21/15 9:50 AM	110	1	110
19	4/21/2015	U	461 Indiana Ave	Bad Connection	10	1	4/21/15 9:10 AM	4/21/15 11:45 AM	155	1	155
20	4/24/2015	U	Elkenburg St & Center St	3 Phase Line Fuses - Lightning	3	1	4/24/15 8:55 PM	4/24/15 11:20 PM	145	157	22765
21	4/27/2015	U	Phillips St & Le Grange St	Bad Connection	10	1	4/27/15 5:40 PM	4/27/15 7:10 PM	90	9	810
22	4/29/2015	U	18360 77th St	Bad Underground	2	1	4/29/15 11:10 AM	4/29/15 4:15 PM	305	21	6405

S/U - Scheduled or Unscheduled

Ints - # of Interruptions

Long - >1 min; Short - <1 min

Cause # - see table on page 3

South Haven Electric Distribution System

OUTAGE SUMMARIES

Total Customers this Month	8,301	Days of Month
Total Customer Minutes this Month	358,603,200	30

Outage Totals			
		This Month	This Month Last Year
Unscheduled Outages			
Long	# Outages	22	18
	# Customers Out	383	557
	# Minutes Out	3,205	2229
	# Customer Minutes Out	60,775	115429
	# Within City System	22	18
	# 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		22	18
Total Short Outages (Blinks)		0	0
Total Customers Out (Long)		383	557
Total Customers Affected (Short- Blinks)		0	0
Total Customer Minutes Out		60,775	115429
Total Outages Within City System		22	18
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	1	0%
1	Fallen Line / Rotted Pole	1	1	4	1%
2	Bad U/G Cable	4	0	22	8%
3	Lightning	4	0	19	7%
4	Animal Contact	3	5	62	23%
5	Tree Contact	1	6	54	20%
6	Contamination / Foreign Debris	0	0	2	1%
7	Human	0	1	8	3%
8	Other	0	0	1	0%
9	Undetermined	0	0	0	0%
10	Failed Device	9	5	102	37%
Total		22	18	275	

AT - Annual 12 Month Total

12 Month Outage Statistics		
Index	As of This Month	As of This Month Last Year
ASAI (%)	99.9643	99.7482
CAIDI (Long) (min)	216.40	834.00
SAIDI (Long) (min)	15.65	110.30
SAIFI (Long) (ints/tot cust)	0.07	0.13
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

South Haven Electric Distribution System

MONTHLY OUTAGE REPORT

General Information				Cause		Time & Duration				Customers	
#	Date	S/U	Address/Location	Description	#	Ints	T off	T on	Mins	# Out	Cust Min
1	5/1/2015	U	76241 14th Ave	Bad Underground	2	1	5/1/15 9:50 AM	5/1/15 2:10 PM	260	3	780
2	5/2/2015	U	76260 Evergreen Bluff Dr	Fuse - Squirrel	4	1	5/2/15 10:30 AM	5/2/15 11:50 AM	80	11	880
3	5/4/2015	U	77802 18th Ave	Bad Connection	10	1	5/4/15 11:45 AM	5/4/15 1:15 PM	90	1	90
4	5/6/2015	U	16971 72nd St	Bad Connection	10	1	5/6/15 3:10 PM	5/6/15 4:45 PM	95	1	95
5	5/9/2015	U	554 Green St	Fuse - Squirrel	4	1	5/9/15 11:20 AM	5/9/15 12:45 PM	85	17	1445
6	5/10/2015	U	800 Sunset Dr	Fuse - Squirrel	4	1	5/10/15 4:45 PM	5/10/15 5:15 PM	30	9	270
7	5/12/2015	U	72231 6th Ave	Fuse - Squirrel	4	1	5/12/15 2:30 AM	5/12/15 4:05 AM	95	7	665
8	5/12/2015	U	366 Hubbard St	Bad Connection	10	1	5/12/15 6:50 PM	5/12/15 7:55 PM	65	1	65
9	5/14/2015	U	145 Blue Star Hwy	Fuse - Raccoon	4	1	5/14/15 2:20 AM	5/14/15 3:45 AM	85	6	510
10	5/15/2015	U	1010 6th Ave	Bad Connection	10	1	5/15/15 3:55 PM	5/15/15 4:45 PM	50	1	50
11	5/22/2015	U	73940 8th Ave	Bad Fuse - Cutout & Arrestor - Lightning	3	1	5/22/15 5:15 PM	5/22/15 9:10 PM	235	17	3995
12	5/24/2015	U	02917 70th St	Fuse - Squirrel	4	1	5/24/15 8:05 AM	5/24/15 9:40 AM	95	5	475
13	5/27/2015	U	354 North Shore Dr	Bad Connection	10	1	5/27/15 3:40 PM	5/27/15 5:10 PM	90	1	90
14	5/31/2015	U	Aylworth Ave & Monroe Blvd	Primary Line Fuse - Tree Limb	5	1	5/31/15 5:50 AM	5/31/15 9:10 AM	200	86	17200

S/U - Scheduled or Unscheduled

Ints - # of Interruptions

Long - >1 min; Short - <1 min

Cause # - see table on page 3

South Haven Electric Distribution System

OUTAGE SUMMARIES

Total Customers this Month	8,301	Days of Month
Total Customer Minutes this Month	370,556,640	31

Outage Totals			
		This Month	This Month Last Year
Unscheduled Outages			
Long	# Outages	14	29
	# Customers Out	166	503
	# Minutes Out	1,555	3510
	# Customer Minutes Out	26,610	83685
	# Within City System	14	29
	# 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		14	29
Total Short Outages (Blinks)		0	0
Total Customers Out (Long)		166	503
Total Customers Affected (Short- Blinks)		0	0
Total Customer Minutes Out		26,610	83685
Total Outages Within City System		14	29
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	1	0%
1	Fallen Line / Rotted Pole	0	0	4	2%
2	Bad U/G Cable	1	3	20	8%
3	Lightning	1	3	17	7%
4	Animal Contact	6	7	61	23%
5	Tree Contact	1	4	51	20%
6	Contamination / Foreign Debris	0	0	2	1%
7	Human	0	1	7	3%
8	Other	0	0	1	0%
9	Undetermined	0	0	0	0%
10	Failed Device	5	11	96	37%
	Total	14	29	260	

12 Month Outage Statistics		
Index	As of This Month	As of This Month Last Year
ASAI (%)	99.9656	99.7471
CAIDI (Long) (min)	218.72	812.86
SAIDI (Long) (min)	15.06	110.77
SAIFI (Long) (ints/tot cust)	0.07	0.14
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

South Haven Electric Distribution System

MONTHLY OUTAGE REPORT

General Information				Cause		Time & Duration				Customers	
#	Date	S/U	Address/Location	Description	#	Ints	T off	T on	Mins	# Out	Cust Min
1	6/2/2015	U	70236 CR 388	Bad Connection	10	1	6/2/15 2:50 PM	6/2/15 4:00 PM	70	1	70
2	6/5/2015	U	605 Monroe Blvd	Bad Connection	10	1	6/5/15 5:20 PM	6/5/15 6:10 PM	50	1	50
3	6/6/2015	U	67200 8th Ave	Primary Line Fuse - Tree Limb's	5	1	6/6/15 10:45 AM	6/6/15 1:40 PM	175	27	4725
4	6/6/2015	U	73369 2nd Ave	Bad Underground	2	1	6/6/15 8:50 PM	6/7/15 12:55 AM	245	9	2205
5	6/7/2015	U	74179 Lambert Dr	Line Fuse & Bad Fuse - Tree's	5	1	6/7/15 9:45 PM	6/7/15 11:55 PM	130	23	2990
6	6/8/2015	U	74179 Lambert Dr	Changed Bad Fuse	10	1	6/8/15 12:00 AM	6/8/15 3:00 AM	180	8	1440
7	6/8/2015	U	14360 77th St	Fuse - Squirrel	4	1	6/8/15 6:50 PM	6/8/15 8:05 PM	75	9	675
8	6/8/2015	U	1220 Phoenix St	3 Phase Line Fuse - Lightning	3	1	6/8/15 9:40 PM	6/8/15 11:20 PM	100	23	2300
9	6/9/2015	U	CR 688 & 70th St	Car/Pole Accident - Secondary Line Down	7	1	6/9/15 7:50 PM	6/9/15 10:10 PM	140	7	980
10	6/11/2015	U	713 Hiways St	Bad Connection	10	1	6/11/15 8:45 AM	6/11/15 10:15 AM	90	1	90
11	6/12/2015	U	68300 CR 388	Bad Underground Service	2	1	6/12/15 7:00 PM	6/12/15 11:10 PM	250	1	250
12	6/12/2015	U	828 Superior St	Bad Meter - Lady With Hachet	7	1	6/12/15 8:50 PM	6/12/15 10:40 PM	110	1	110
13	6/13/2015	U	Green St & Lee St	2 Primary Line Fuses - Squirrel	4	1	6/13/15 6:55 AM	6/13/15 9:10 AM	135	71	9585
14	6/13/2015	U	Chambers St & Blue Star Hwy	Fuse - Squirrel	4	1	6/13/15 1:35 PM	6/13/15 2:15 PM	40	9	360
15	6/13/2015	U	3260 Pinewood Dr	Fuse - Squirrel	4	1	6/13/15 6:34 PM	6/13/15 7:55 PM	81	1	81
16	6/15/2015	U	06633 Blue Star Hwy	Bad Connection	10	1	6/15/15 8:50 PM	6/15/15 10:10 PM	80	1	80
17	6/16/2015	U	554 Green St	Bad Connection	10	1	6/16/15 5:00 PM	6/16/15 6:20 PM	80	9	720
18	6/16/2015	U	362 Cherry St	Fuse	10	1	6/16/15 6:05 PM	6/16/15 7:40 PM	95	1	95
19	6/16/2015	U	76544 14th Ave	Bad Connection	10	1	6/16/15 7:40 PM	6/16/15 9:30 PM	110	11	1210
20	6/18/2015	U	12th Ave & 72nd St	Fuse - Squirrel	4	1	6/18/15 4:50 PM	6/18/15 5:45 PM	55	7	385
21	6/19/2015	U	77138 Marwood Dr	Bad Connection	10	1	6/19/15 6:30 PM	6/19/15 7:55 PM	85	1	85
22	6/22/2015	U	CR 388 & 71.5 St	Line Fuse going east - Lightning	3	1	6/22/15 11:20 PM	6/23/15 1:55 AM	155	164	25420
23	6/22/2015	U	74703 14th Ave & 74160 15th Ave	Line fuses - Lightning	3	1	6/22/15 11:20 PM	6/23/15 1:10 AM	110	39	4290
24	6/23/2015	U	1601 Phoenix St	Fuses - Lightning	3	1	6/23/15 12:02 AM	6/23/15 1:05 AM	63	1	63
25	6/23/2015	U	Baseline Rd & 67th St	Line fuses - Lightning	3	1	6/23/15 2:01 AM	6/23/15 3:10 AM	69	51	3519
26	6/23/2015	U	13772 M-140 Hwy	Fuse - Lightning	3	1	6/23/15 1:05 AM	6/23/15 2:45 AM	100	11	1100
27	6/23/2015	U	Lambert Dr & M-140 Hwy	Fuse - Lightning	3	1	6/23/15 5:55 AM	6/23/15 6:45 AM	50	34	1700
28	6/23/2015	U	Pinewood Ln & 77th St	Fuse - Lightning	3	1	6/23/15 6:50 AM	6/23/15 8:10 AM	80	16	1280
29	6/23/2015	U	16th Ave & M-140 Hwy	Fuse on power bank - Lightning	3	1	6/23/15 7:10 AM	6/23/15 8:50 AM	100	4	400
30	6/24/2015	U	70 Elm Ct	Bad underground - Hit by Contractor	7	1	6/24/15 10:45 AM	6/24/15 1:50 PM	185	6	1110
31	6/24/2015	U	165 Veterans Blvd	Bad Fuse - Lightning	3	1	6/24/15 2:05 PM	6/24/15 9:20 PM	435	1	435
32	6/24/2015	U	16720 77th St	Fuse - Lightning	3	1	6/24/15 5:50 PM	6/24/15 7:20 PM	90	14	1260
33	6/25/2015	U	71055 6th Ave	Fuse - Squirrel	4	1	6/25/15 4:40 PM	6/25/15 5:50 PM	70	7	490
34	6/25/2015	U	16883 76th Ave	Fuse - Squirrel	4	1	6/25/15 7:00 PM	6/25/15 8:24 PM	84	5	420
35	6/25/2015	U	45 Apache Ct	Primary Line Down - Large Tree Limb	5	1	6/25/15 10:10 PM	6/26/15 2:30 AM	260	57	14820
36	6/26/2015	U	72133 CR 388	Fuse - Lightning	3	1	6/26/15 6:00 PM	6/26/15 7:50 PM	110	4	440
37	6/29/2015	U	Elkenburg St & Monroe Blvd	Linefuse - Trees	5	1	6/29/15 7:40 PM	6/29/15 8:35 PM	55	39	2145
38	6/30/2015	U	Baseline Rd & 73rd St	Primary Line Down - Trees	5	1	6/30/15 4:00 PM	6/30/15 7:10 PM	190	33	6270

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

South Haven Electric Distribution System

OUTAGE SUMMARIES

Total Customers this Month	8,301	Days of Month
Total Customer Minutes this Month	358,603,200	30

Outage Totals			
	This Month	This Month Last Year	
Unscheduled Outages			
Long	# Outages	38	22
	# Customers Out	708	419
	# Minutes Out	4,582	3305
	# Customer Minutes Out	93,648	57380
	# Within City System	38	22
	# 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	22
	Total Short Outages (Blinks)	0	0
	Total Customers Out (Long)	708	419
	Total Customers Affected (Short- Blinks)	0	0
	Total Customer Minutes Out	93,648	57380
	Total Outages Within City System	38	22
	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	1	0%
1	Fallen Line / Rotted Pole	0	0	4	1%
2	Bad U/G Cable	2	4	18	7%
3	Lightning	12	0	29	11%
4	Animal Contact	7	7	61	22%
5	Tree Contact	5	4	52	19%
6	Contamination / Foreign Debris	0	0	2	1%
7	Human	3	1	9	3%
8	Other	0	0	1	0%
9	Undetermined	0	0	0	0%
10	Failed Device	9	6	99	36%
	Total	38	22	276	

AT - Annual 12 Month Total

12 Month Outage Statistics		
Index	As of This Month	As of This Month Last Year
ASAI (%)	99.9648	99.9609
CAIDI (Long) (min)	214.93	297.99
SAIDI (Long) (min)	15.42	17.13
SAIFI (Long) (ints/tot cust)	0.07	0.06
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

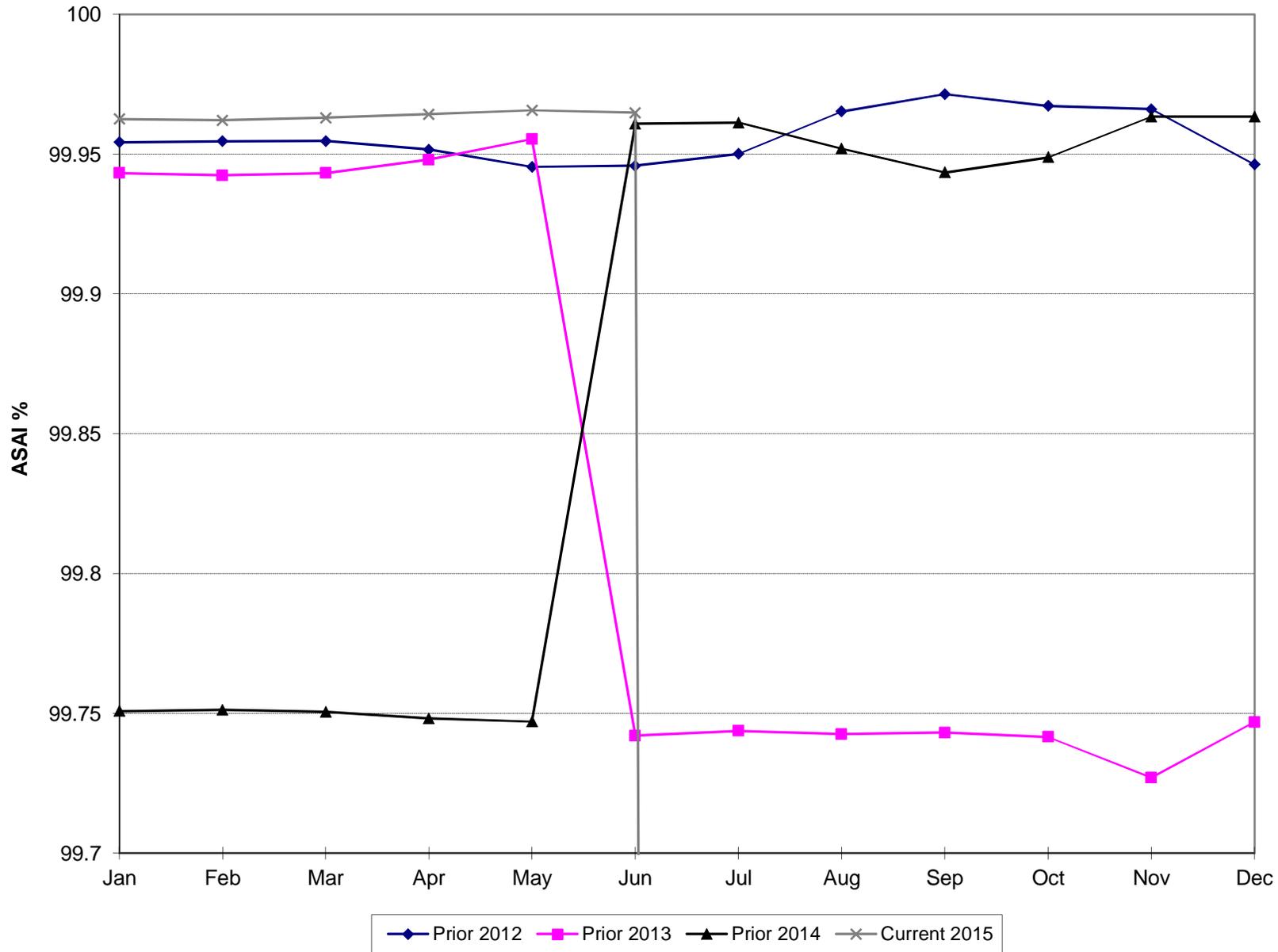
South Haven Electric Distribution System

RELIABILITY REPORT

JUN 2015

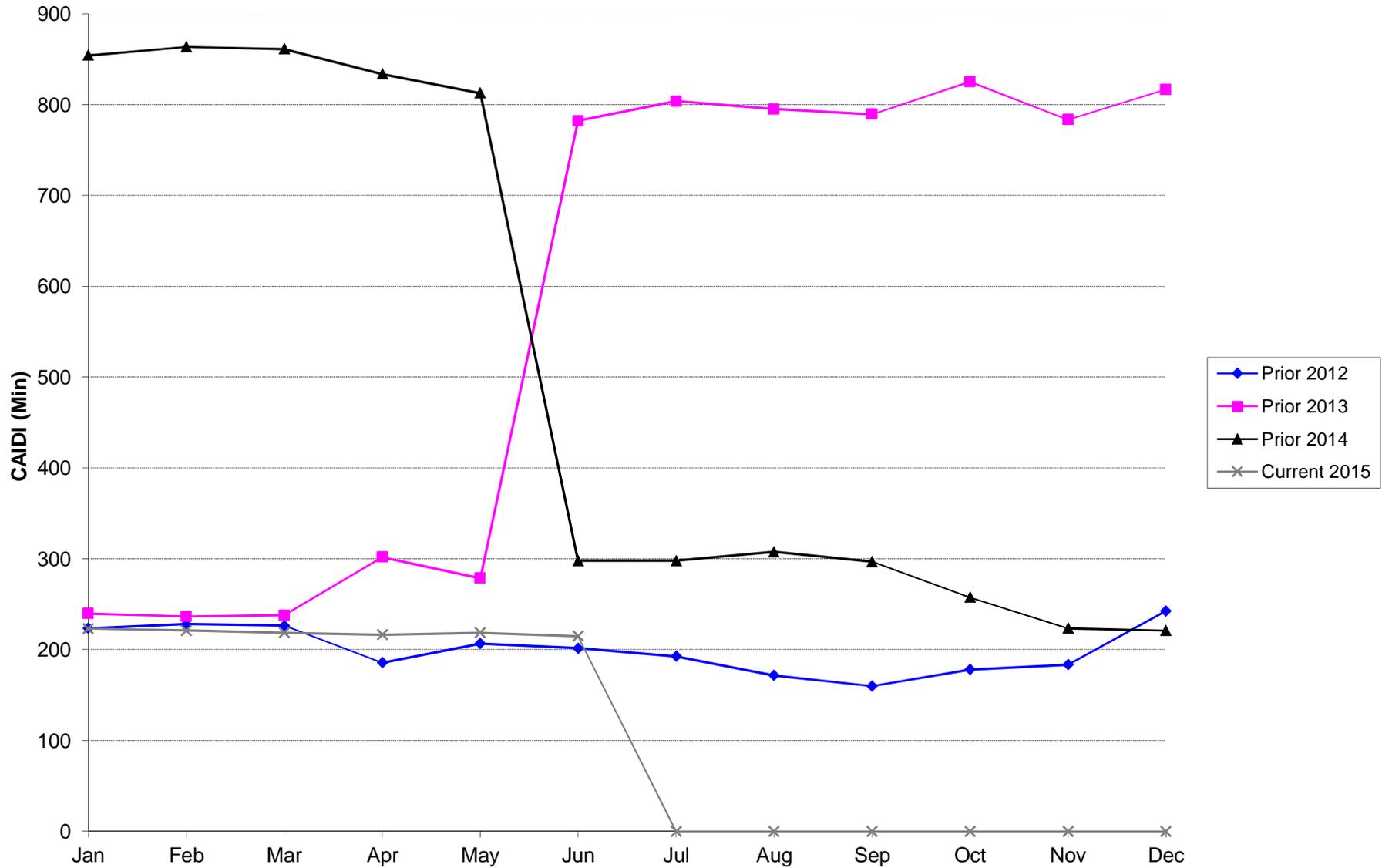
Month	Jun 14	Jul 14	Aug 14	Sep 14	Oct 14	Nov 14	Dec 14	Jan 15	Feb 15	Mar 15	Apr 15	May 15	Jun 15
Number of Customers	8,239	8,140	8,140	8,140	8,262	8,262	8,262	8,268	8,268	8,268	8,301	8,301	8,301
Unscheduled Outages													
Long Outages # Outages	22	22	37	33	32	25	12	15	10	15	22	14	38
# Customers Out	419	421	1,605	1,864	690	388	199	307	313	51	383	166	708
# Minutes Out	3,305	2,425	6,790	4,339	4,593	5,035	1,115	2,715	1,255	1,700	3,205	1,555	4,582
# Customer Mins	57,380	52,755	502,220	417,779	118,438	90,140	19,900	80,560	54,560	7,520	60,775	26,610	93,648
# City System	22	22	37	32	32	25	12	15	10	15	22	14	38
# Supply to City Minutes	0	0	0	160	0	0	0	0	0	0	0	0	0
Short Outages # Outages (Blinks)	0	0	0	0	0	0	0	0	0	0	0	0	0
# Customers Out	0	0	0	0	0	0	0	0	0	0	0	0	0
# City System	0	0	0	0	0	0	0	0	0	0	0	0	0
# Supply to City Minutes	0	0	0	0	0	0	0	0	0	0	0	0	0
Scheduled Outages													
Long Outages # Outages	0	0	0	0	0	0	0	0	0	0	0	0	0
# Customers Out	0	0	0	0	0	0	0	0	0	0	0	0	0
# Minutes Out	0	0	0	0	0	0	0	0	0	0	0	0	0
# Customer Mins	0	0	0	0	0	0	0	0	0	0	0	0	0
# City System	0	0	0	0	0	0	0	0	0	0	0	0	0
# Supply to City Minutes	0	0	0	0	0	0	0	0	0	0	0	0	0
Short Outages # Outages (Blinks)	0	0	0	0	0	0	0	0	0	0	0	0	0
# Customers Out	0	0	0	0	0	0	0	0	0	0	0	0	0
# City System	0	0	0	0	0	0	0	0	0	0	0	0	0
# Supply to City Minutes	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals													
Total Long Outages	22	22	37	33	32	25	12	15	10	15	22	14	38
Total Short Outages (Blinks)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Custs Out (Long)	419	421	1,605	1,864	690	388	199	307	313	51	383	166	708
Total Custs Out (Short Blinks)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Cust Mins Out	57,380	52,755	502,220	417,779	118,438	90,140	19,900	80,560	54,560	7,520	60,775	26,610	93,648
Total City System	22	22	37	32	32	25	12	15	10	15	22	14	38
Total Supply to City	0	0	0	1	0	0	0	0	0	0	0	0	0
Indices													
ASAI (%)	99.96	99.96	99.95	99.94	99.95	99.96	99.96	99.96	99.96	99.96	99.96	99.97	99.96
CAIDI (Long) (min)	297.99	297.83	307.49	296.70	257.58	223.51	221.03	222.97	221.14	218.72	216.40	218.72	214.93
SAIDI (Long) (min)	17.13	17.01	21.07	24.78	22.40	16.04	16.03	16.41	16.57	16.21	15.65	15.06	15.42
SAIFI (long int/cust)	0.06	0.06	0.07	0.08	0.09	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
SAIFI (short int/cust)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ASAI (Average Service Availability Index)



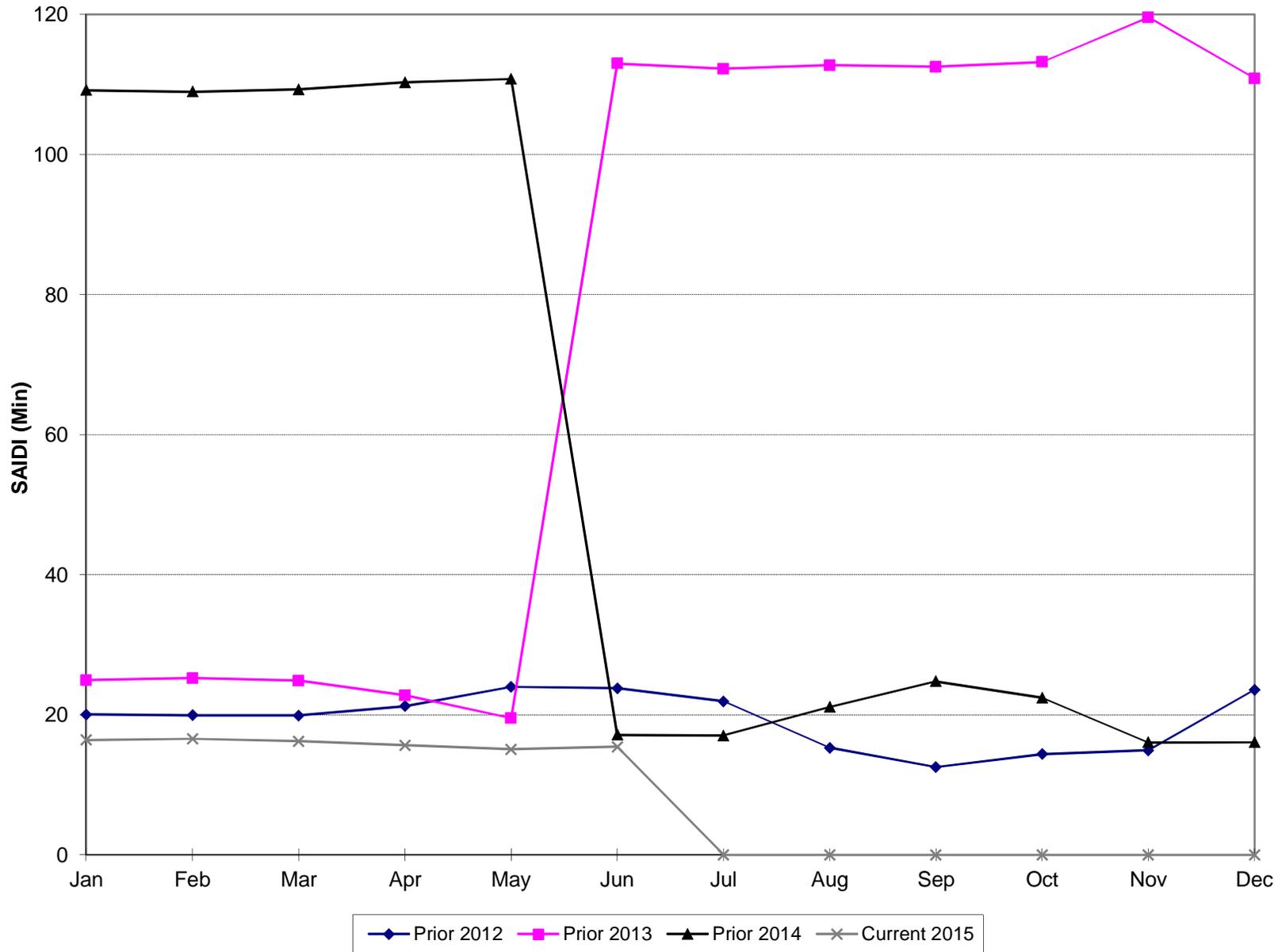
The ratio of the total customer minutes that service was available divided by the total customer minutes demanded (expected) in a time period. It is expressed as a percent.

CAIDI (Customer Average Interruption Duration Index)



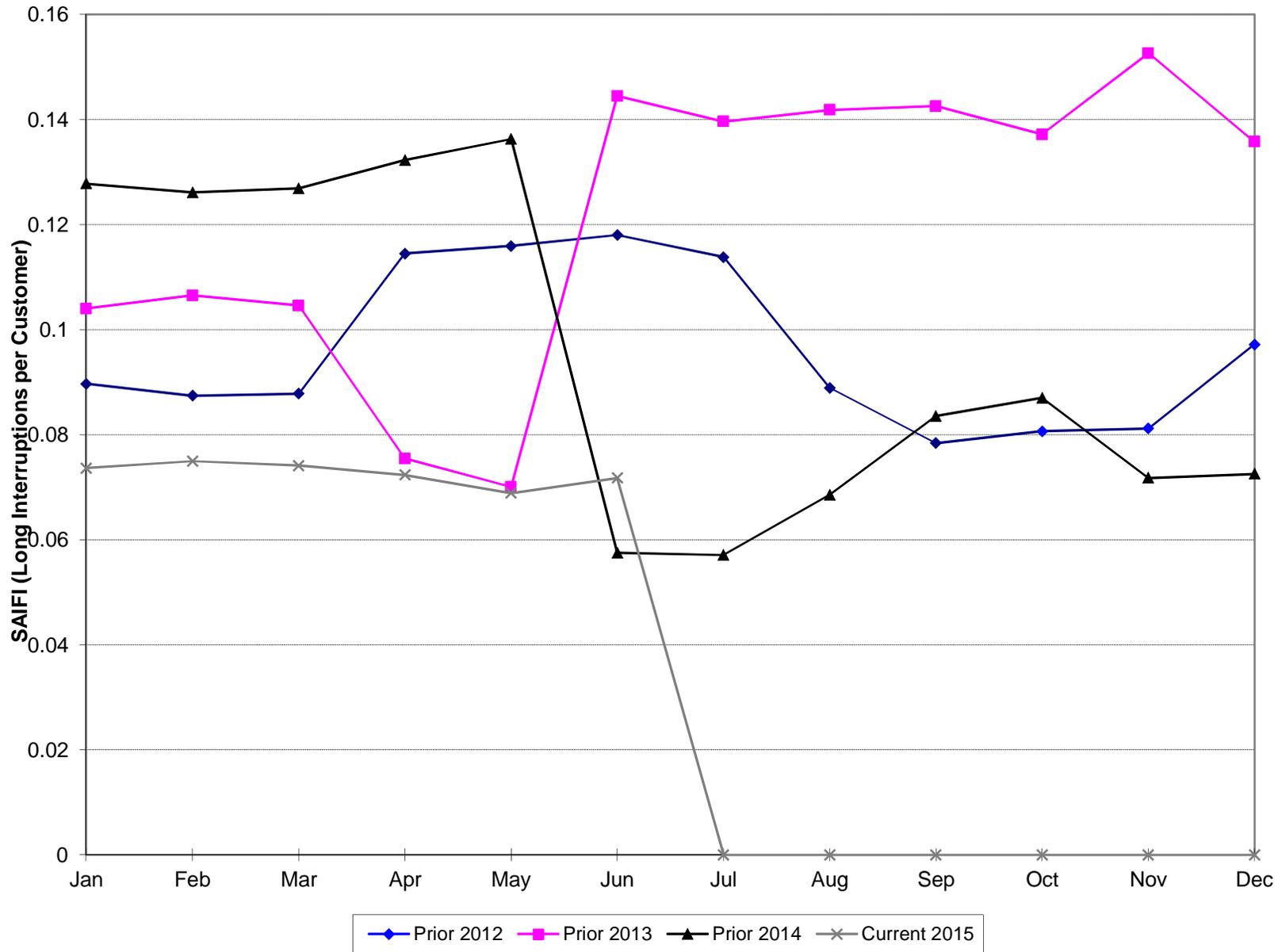
This is the average duration of a customer outage, and is calculated by dividing the sum of the customer minutes off by the number of customers who experienced long interruptions.

SAIDI (System Average Interruption Duration Index)



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.

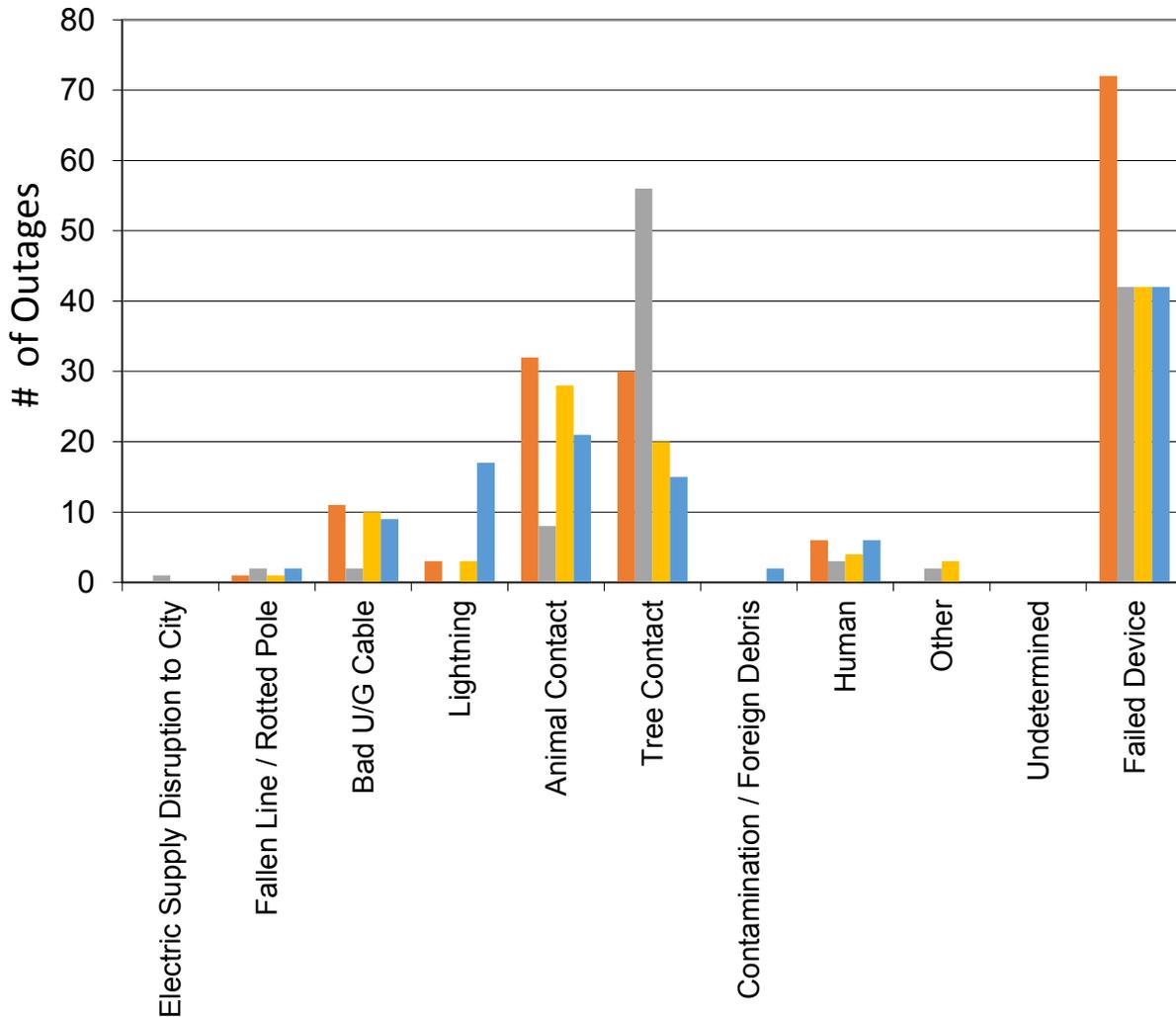
SAIFI (Long) (System Average Interruption Frequency Index for Long Interruptions)



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.

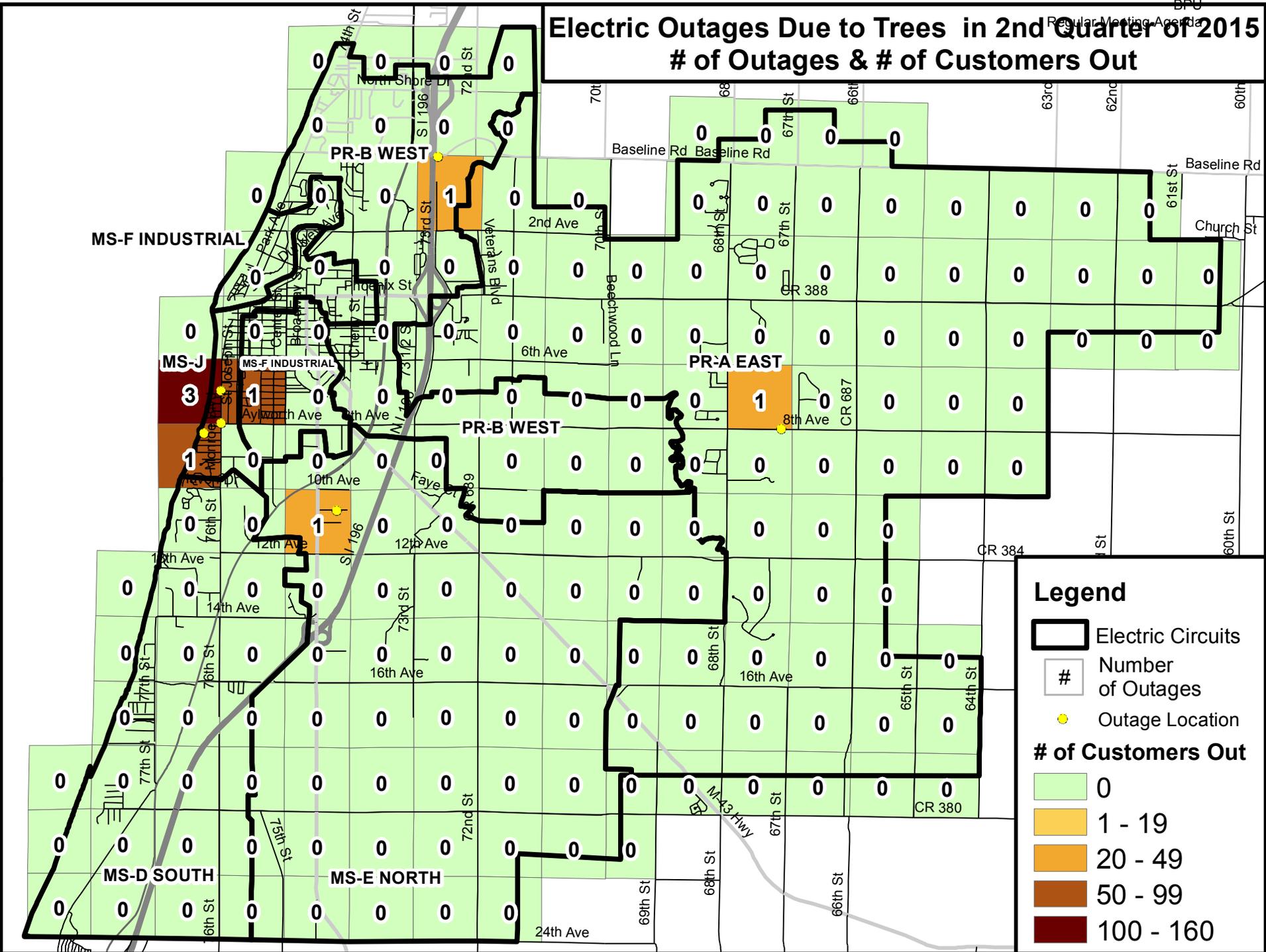
# of Outages - 1st & 2nd Quarter	2012	2013	2014	2015	2014-2015
0 Electric Supply Disruption to City	0	1	0	0	0%
1 Fallen Line / Rotted Pole	1	2	1	2	100%
2 Bad U/G Cable	11	2	10	9	-10%
3 Lightning	3	0	3	17	467%
4 Animal Contact	32	8	28	21	-25%
5 Tree Contact	30	56	20	15	-25%
6 Contamination / Foreign Debris	0	0	0	2	2%
7 Human	6	3	4	6	50%
8 Other	0	2	3	0	-3%
9 Undetermined	0	0	0	0	0%
10 Failed Device	72	42	42	42	0%
Grand Total	155	116	111	114	3%

Outages By Cause - 1st & 2nd Quarter 2012 - 2015



Electric Outages Due to Trees in 2nd Quarter of 2015

of Outages & # of Customers Out



Legend

- Electric Circuits
- # Number of Outages
- Outage Location

of Customers Out

- 0
- 1 - 19
- 20 - 49
- 50 - 99
- 100 - 160



June 24, 2015

Mr. Roger Huff, Director
Department of Public Works
1199 8th Avenue
South Haven, Michigan 49090-5319

**RE: Request for Variance to the Ordinance
Section 86-156 Stormwater Disposition
Belgravia Site: Environmental Concern
MDEQ DMB File No. 761/07073.SAR**

Dear Mr. Huff:

Global Remediation Technologies, Inc. on behalf of the Michigan Department of Environmental Quality (MDEQ) Remediation and Redevelopment Division (RRD) presents this Request for Variance to the Ordinance under Section 86-156, titled Stormwater Disposition to the Board of Public Utilities and to the City Council. If granted the variance will assist with satisfying a portion of the Belgravia Site Environmental Concern; a slowly migrating chemical impact which emanates from 125 Elkenburg, South Haven, Van Buren County, Michigan. The backup documentation for this request and associated benefits (for the City of South Haven and the Environment) are described herein.

Sump Discharge Sample Results

Table 1 presents the results of sampling residential sumps and Storm Sewers (SS) in the vicinity of 125 Elkenburg. Residential dwellings located at 107 and 108 Orchard are in a vulnerable location due to the groundwater flow direction and position of the chemical plume described later in this document. This comparison **Table 1** presents chemical results of sump discharge sampling and shows that these concentrations are within acceptable MDEQ-RRD values for groundwater *naturally venting* residual chemicals to the surface water interface (i.e. GSI). Although *natural venting* of chemicals at these values would be a regulatory acceptable practice, *pumping* impacted water to a storm sewer is not an acceptable practice. Therefore we

Request your permission to plumb sump-discharge piping into sanitary sewer from residential dwellings located at 107 and 108 Orchard Drive and provide the following information in consideration of your granting this request.

WWTP Acceptance Values

Appendix A describes the sump discharge volume estimates while **Table 2** presents calculations of the chlorinated volatile organic compounds (CVOCs) that would result from this sump discharge acceptance. Please note that **Table 1** describes a trichloroethylene value acceptable in drinking water (DW) as 5 ug/L. **Table 2** resultant calculations demonstrate that the concentration after passing through the plant would be 0.002 ug/L prior to any affected actual reduction by the plant treatment process.

Belgravia Site - Groundwater Flow and Chemical Plume

Appendix B presents groundwater flow from the Belgravia Site principally toward 108 Orchard in the shallow horizon. Appended figures within **Appendix A** also show the position of CVOCs in the shallow and intermediate horizons; trending toward 108 and 107 Orchard respectively.

Belgravia Site - Target Zone for Treatment (*Red-Line*) and Soil Lithology Profile

Appendix C depicts Zones of Chemical Impact by magnitude of chemical present. The inner most *red-line* identifies the most highly impacted region of the site; i.e. TCE concentrations above the soil saturation limit (Csat). This is the MDEQ-RRDs targeted area for treatment of the most chemically impacted soil on site. The cross section of **Appendix C** presents the location of the sump collection system relative to the chemical position that will undergo treatment; revealing that groundwater from near surface enter the sump and not the highly concentrated chemical impact zone.

Benefits of Sump Discharge Connections

The benefits recognized by granting this variance request include the following;

- Direct chemical discharge to the storm sewer (which eventually flows to Lake Michigan) without treatment is eliminated
- This connection is protective of human health and the environment
- The residential community does not have low-level chemically impacted water flowing in the storm sewer through its neighborhoods
- Cooperation with MDEQ-RRDs chemical clean-up plan will ultimately protect property values which we feel will be recognized reducing chemicals in the local environment

Proposed Sampling Plan

It is proposed that the subject sump discharge is sampled on quarterly basis through December of 2016 followed by semi-annual sampling in 2017 and 2018. Annual sampling is proposed thereafter until results suggest that the plumbing connection is made back to storm sewer.

Annual Reporting and Disconnect Evaluation

A letter report will be submitted to the Board of Public Utilities during the first quarter of each year which presents the results of sampling in years prior. Each report will discuss if the results allow for the recommendation that the plumbing is disconnected from the WWTP sanitary sewer piping.

On behalf of the MDEQ-RRD we hereby request permission to plumb the sump discharge piping into the sanitary sewer for two residential dwellings located at 107 and 108 Orchard Drive. If you have any questions, please contact me (231-941-8622) or Ray Spaulding (269-567-3532), Senior Environmental Quality Analyst for MDEQ-RRD.

Respectfully Submitted,

GLOBAL REMEDIATION TECHNOLOGIES, INC.



Richard Raetz, P.E.
Senior Project Manager

Enclosures:



Table 1
Summary of CIS 1,2-DCE TCE Results - Sump and Storm Sewer Samples
 Belgravia

Sample ID	Plochocki Sump	Taylor Sump	SS-BELGRAVIA YARD	Sump 107 ORCHARD	Sump 108 ORCHARD	SS-ELKENBURG ST	SS-AYLWORTH CT	SS-PARKING LOT	Sump 108 ORCHARD	Sump 107 ORCHARD	Part 201 DWC	Part 201 GSIC	Part 201 GVIAIC
Sample Date	4/13/2005	4/21/2005	4/15/2009	4/15/2009	4/15/2009	4/16/2009	4/16/2009	4/16/2009	4/21/2015	4/21/2015			
Total VOCs	10	0	40	34	0	7	35	5	3	53			
cis-1,2-Dichloroethylene	9.6	<	40	34	<	7.4	35	5.2	2.6	5.9	70	620	93,000
Trichloroethylene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<	47	5	200	2,200

NOTES:

1. Presented in ug/L (ppb) against Part 201 residential criteria
 2. < = Less than method detection limit
 3. N/A = Not Available
 4. NA = Not Applicable
 5. ID = Inadequate data to develop criterion
 6. NLV=Not Likely to Volatilize
 7. Only compounds with detections are presented
 9. X= The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source
 8. Criterion are based on the December 30, 2013 MDEQ revision.
 9. SS = Storm Sewer
- BOLD**=Exceeds one or more Part 201 Cleanup Criteria
Exceeds two or more Part 201 Cleanup Criteria
Exceeds three or more Part 201 Cleanup Criteria
DWC=Drinking Water Criteria
GSIC=Groundwater-Surface Water Interface Criteria
GVIAIC=Groundwater Volatilization to Indoor Air Inhalation Criteria



Table 2
107 108 Orchard Drive
Sump Discharge Chemical Concentration - Calculated Averages

July 27, 2015
 BPU
 Regular Meeting Agenda

RE: Estimate mass loading to WWTP - May 21, 2015

Given the following Estimated Parameter's:

Sump Flow Volume Est.

Quarterly flow from 107 Orchard (gal)	5,400
Quarterly flow from 108 Orchard (gal)	20,250
Daily flow from WWTP (gal)	1,500,000

Chemical Concentration in Sump Discharge

DCE concentrations in 107 Orchard (ug/l)	5.9
TCE concentrations in 107 Orchard (ug/l)	47
DCE concentrations in 108 Orchard (ug/l)	2.6
TCE concentrations in 108 Orchard (ug/l)	0

Averaging Calculations

Quarterly flow divided by 91.5 (30.5 days time three months)

Daily flow from 107 Orchard (gal)	59
Daily flow from 108 Orchard (gal)	221

Combined influent concentration from 107 and 108 ((VOCs of 107 Orchard x Flow) + (VOCs of 108 Orchard x Flow))/Total Flow

Note assumes no degradation of VOC's on way to plant

Plant Influent DCE concentrations (ug/l)	3.29
Plant Influent TCE concentrations (ug/l)	11.95

Calculated effect of effluent VOCs assuming no degradation through WWTP*

* (Combined Influent Concentration from Sumps X sump flow divided by plant flow)

Plant effluent concentrations (assuming other water is non-detect and sump water is not degraded through plant)

Plant Effluent DCE concentrations (ug/l)	0.000615623
Plant Effluent TCE concentrations (ug/l)	0.00223237

Appendix A

- **Dave Mulac May 21, 2015**
 - **Email Communication**
 - **Sump Discharge Estimates**

Richard Raetz

From: Eric Benson <eric@grtusa.com>
Sent: Thursday, May 21, 2015 11:23 AM
To: Dmulac@south-haven.com
Cc: Richard Raetz; 'Spaulding, Ray (DEQ)'
Subject: Sump Plumbing to Sanitary
Attachments: Sump-107 &108 Lab Results 1504159_2 ENVReport 05 05 2015 1437.pdf; South Haven WWTP calculations.xlsx

Dave,

Thanks for your time this morning to discuss the request we are making. As we spoke earlier today the groundwater plume originating from the former Belgravia Site (Site) located at 125 Elkenburg Street, South Haven, Van Buren County, Michigan has impacted the sumps at 107 and 108 Orchard drive at low levels for Cis-1,2-Dichloroethylene (DCE) and Trichloroethylene (TCE). It has been confirmed that both of these sumps are currently going to the storm sewer and it is the intention of the State of Michigan to receive permission from your department to plumb these over to the sanitary sewer. Attached are the recent lab results (collected 4/21/15) for total VOC's from the sumps in the two residences with the following results:

107 Orchard
DCE = 5.9 ug/l
TCE = 47 ug/l

108 Orchard
DCE = 2.6 ug/l
TCE = non-detect < 1 ug/l

The following estimated flow rates were based on homeowners input and divided into quarterly (3 month inputs)

- I. Estimated Flow Rates
 - i. 107 Orchard Lisa K. Reports that sump comes on occasionally in Spring after snow melt and rains.
 1. Q1 Estimate
 - a. 8 x per month x 3 month x 15 gpm x 5 minutes = 1800 gal
 2. Q 2 Estimate
 - a. 24 x per month x 3 month x 15 gpm x 5 minutes = 5400 gal
 3. Q3 Estimate
 - a. 8 x per month x 3 month x 15 gpm x 5 minutes = 1800 gal
 4. Q 4 Estimate
 - a. 24 x per month x 3 month x 15 gpm x 5 minutes = 5400 gal
 - i. TOTAL YEARLY ESTIMATE 14,450
 - ii. 108 Orchard Norma C. Reports that sump comes on frequently in Spring after snow melt and rains.
 1. Q1 Estimate
 - a. 9 x per month x 3 month x 15 gpm x 5 minutes = 2,025 gal
 2. Q 2 Estimate
 - a. 90 x per month x 3 month x 15 gpm x 5 minutes = 20,250 gal
 3. Q3 Estimate
 - a. 9 x per month x 3 month x 15 gpm x 5 minutes = 2,025 gal
 4. Q 4 Estimate

a. 90 x per month x 3 month x 15 gpm x 5 minutes = 20,250 gal

ii. TOTAL YEARLY ESTIMATE 44,550

Attached with this data is an excel table that will calculate the mass loading that your system would be expected to see. Your consultant can make changes to the flow rate of the sumps, your system, and concentrations to see what effect this may have on your effluent levels. As a quick screen I assumed the Sumps highest flow with the current concentrations and assuming no degradation of VOC's to and through your plant (estimated at 1.5 million gallons per day). Bottom line is the max TCE effluent concentration would be approximately 0.002 ug/l (the drinking water level is 5 ug/l and the GSI is 200 ug/l). I do not know what your discharge limit is for TCE but I expect it is 5 ug/l or greater. Feel free to call me with any questions you or AI may have during this review.

Again thanks for your time this morning and I hope this clears up some of your concerns.



Eric Benson, Project Manager

Global Remediation Technologies, Inc

1102 Cass Street - Traverse City, MI 49684

Ph: 231.941.8622 | C: 231.342.0360 | F:231.941.4131

Appendix B

- **Belgravia Site**
 - **Groundwater Flow**
 - **Chemical Contouring**

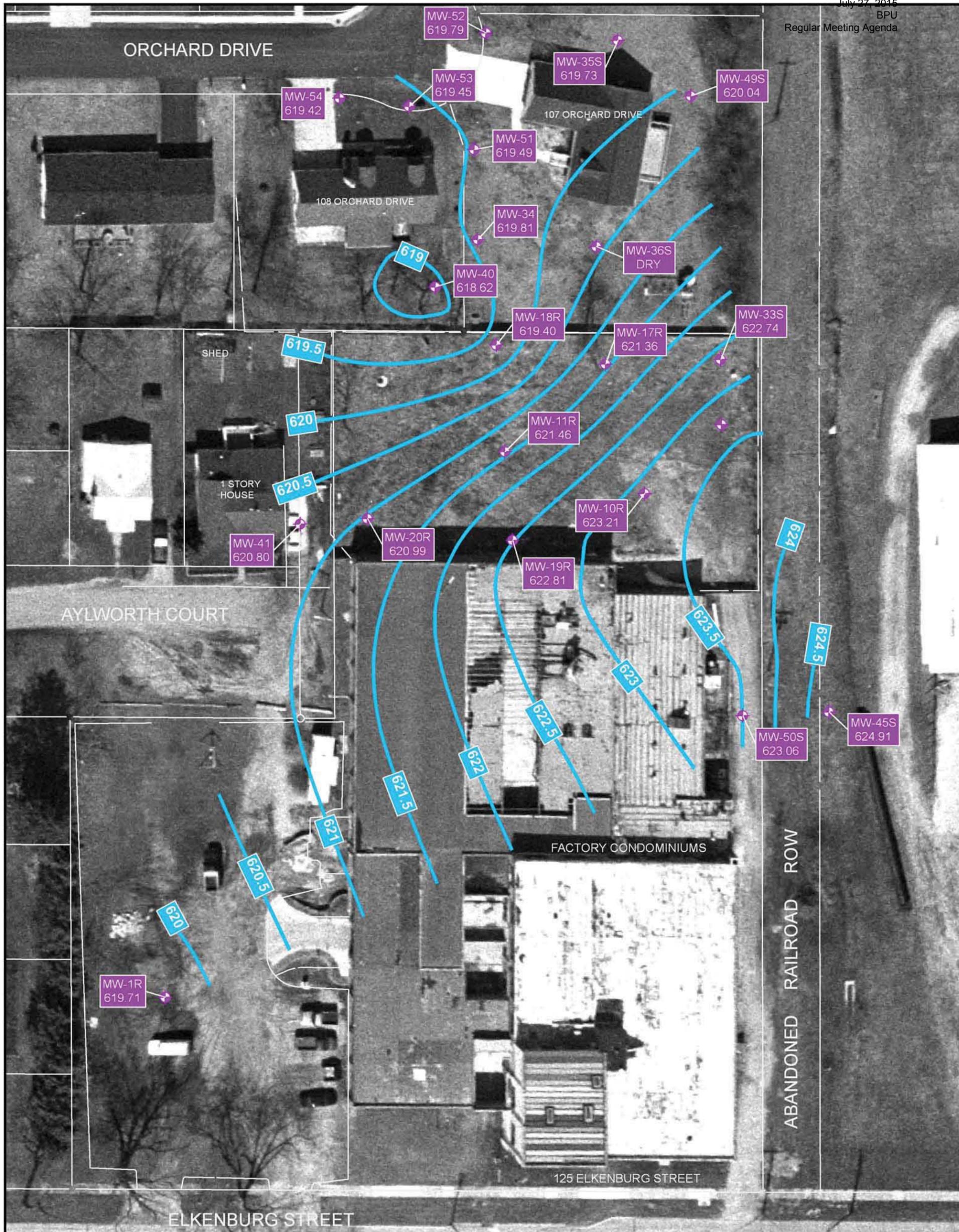


FIGURE 2

POTENTIOMETRIC SURFACE IN THE UNCONFINED GROUNDWATER UNIT - NOV 2010



Legend

-  Monitoring Well
-  Potentiometric Surface (C.I. = 0.5 ft)

DRAFTED: 1/24/2011

BY: C. BECKETT

SCALE: 1" = 40'

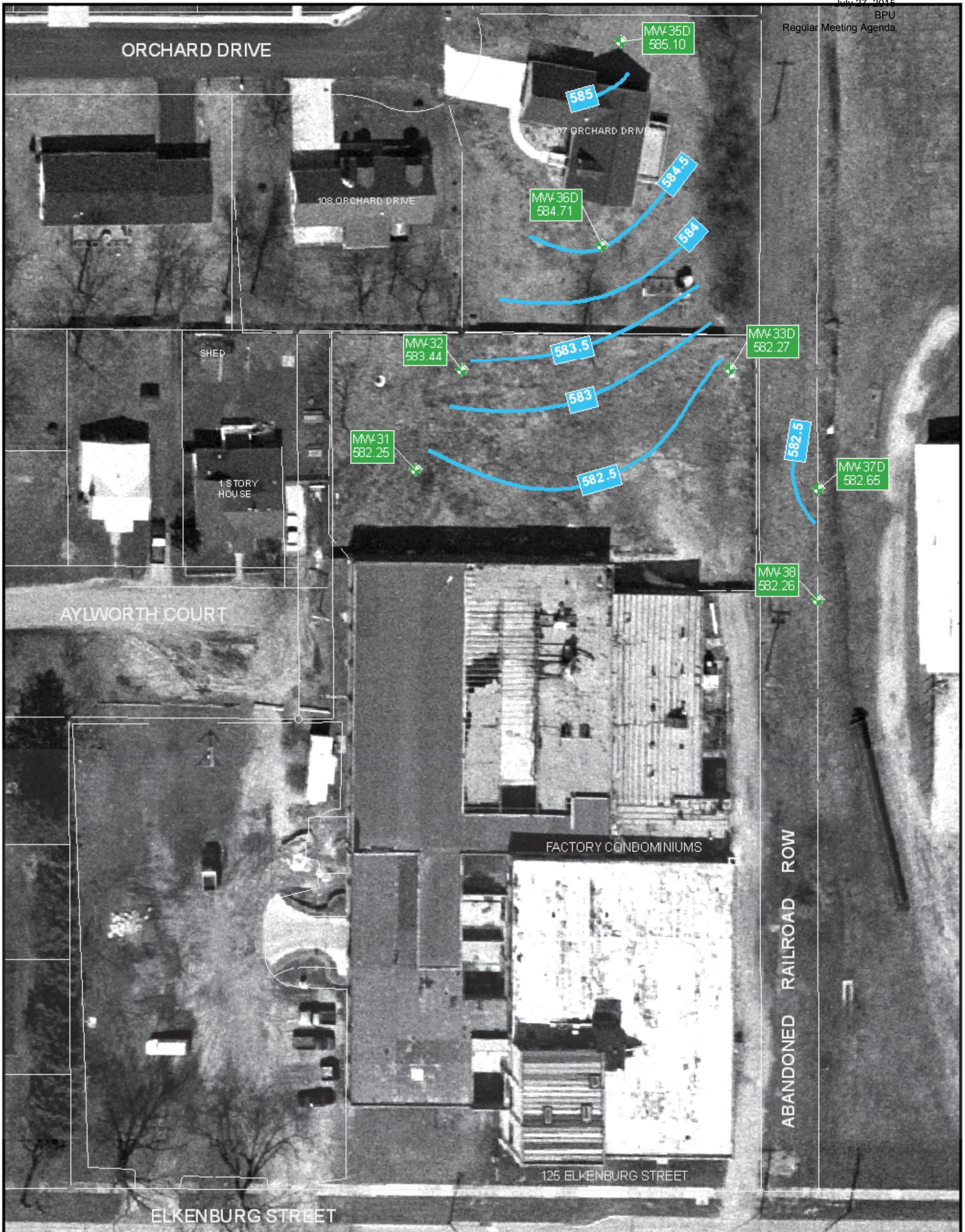


FIGURE 3
POTENTIOMETRIC SURFACE IN THE DEEP CONFINED GROUNDWATER UNIT - NOV 2010

		<p>Legend</p> <ul style="list-style-type: none"> Monitoring Well Potentiometric Surface (C.I. = 0.5 ft) 	<p>DRAFTED: 1/24/2011</p> <p>BY: C. BECKETT</p> <p>SCALE: 1" = 40'</p>
<p>File: P:\Current\DEQ0701\Eng\GIS\Maps\2010\GW_Contour_Deep_November2010 Page 46 of 53</p>			

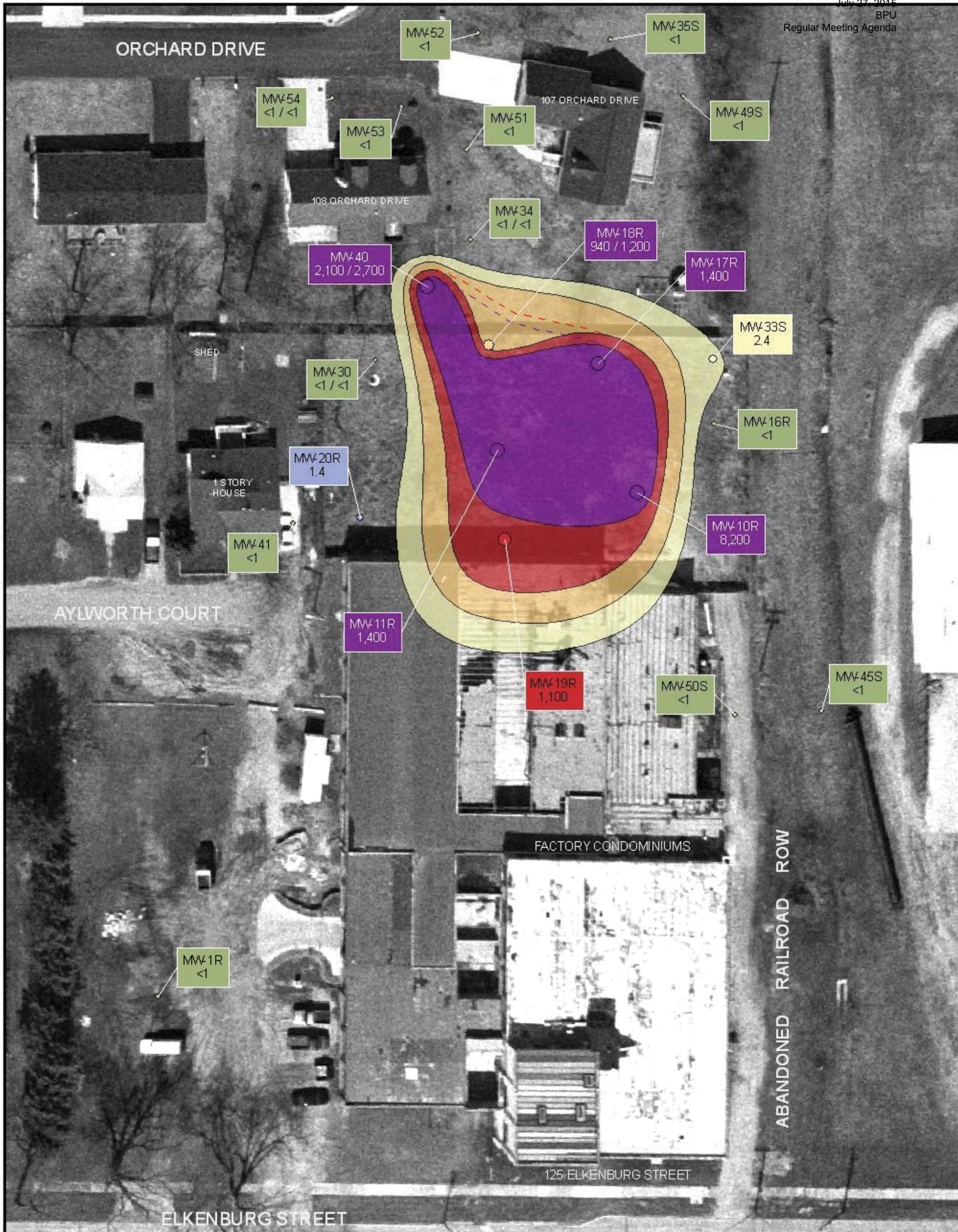


FIGURE 6

DISTRIBUTION OF VC IN THE UNCONFINED GROUNDWATER UNIT - NOV 2010 / MAY 2012

		<p>VC (ug/L) - Nov 2010 / May 2012</p> <ul style="list-style-type: none"> ● Non-detect ● Less than Part 201 DW Criterion ● Exceeds Part 201 DW Criterion ● Exceeds Part 201 GSI Criterion ● Exceeds Part 201 GWC Criterion ● Exceeds Part 201 GVII Criterion 	<p>DRAFTED: 05/31/12 BY: B. ROSS SCALE: 1" = 40'</p> <p>NOTE: SHALLOW GROUND WATER UNIT OCCURS FROM 2-7 FEET BELOW GROUND SURFACE</p>
<p>--- Plume boundary changes based on 2012 data</p>		<p>FILE: P:\Current\DEQ0701\Eng\GIS\Maps\2012\Fig 6 VC_Shallow_May2012</p>	

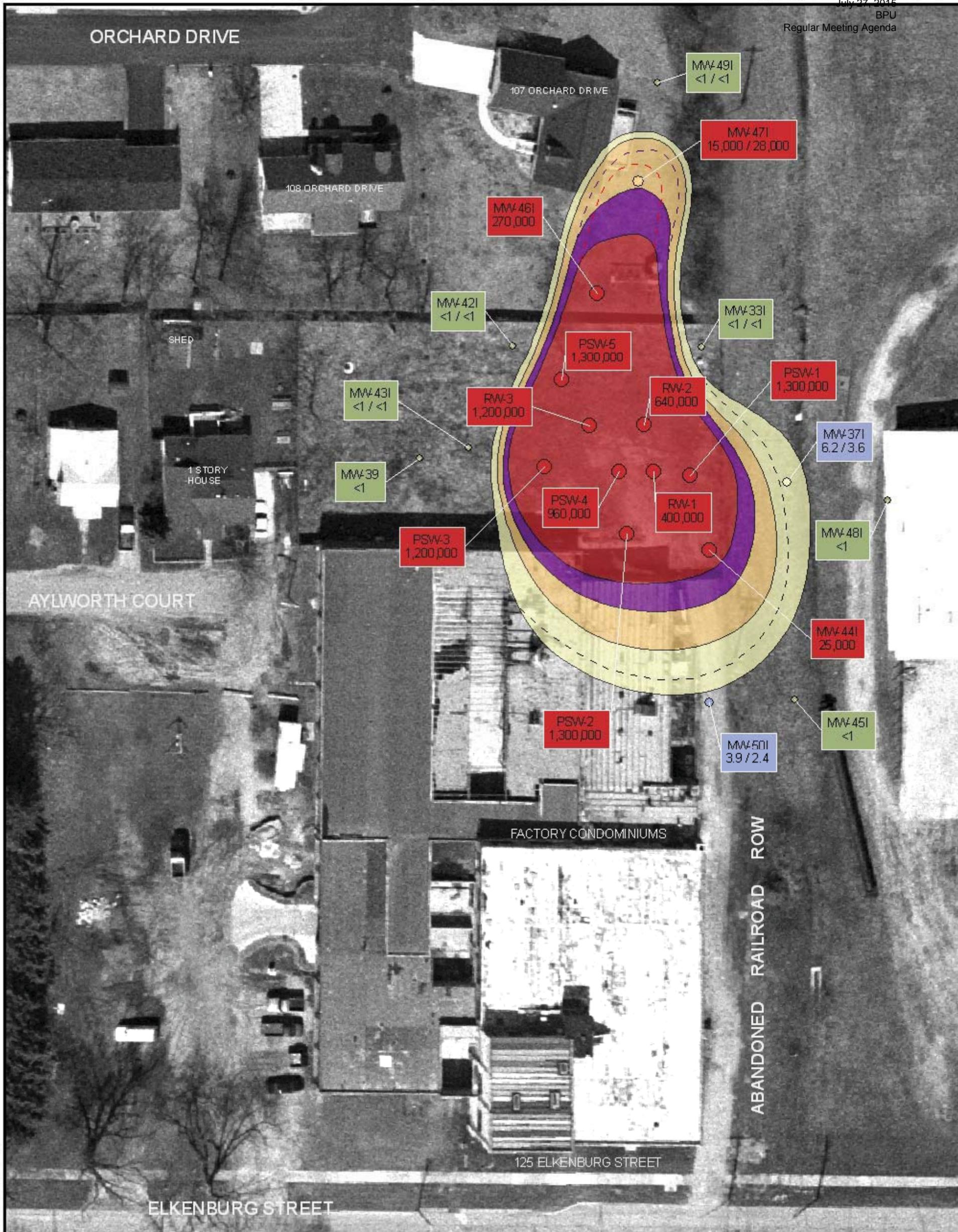


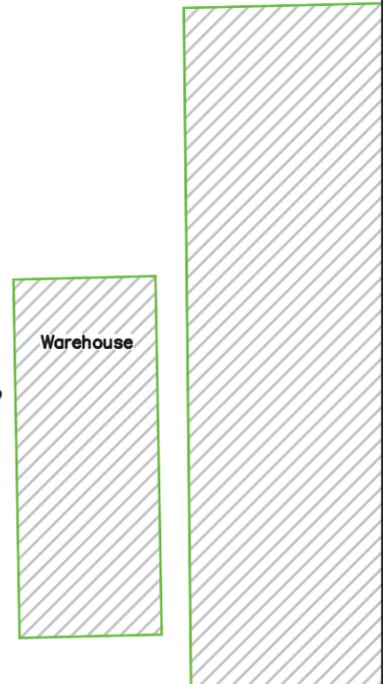
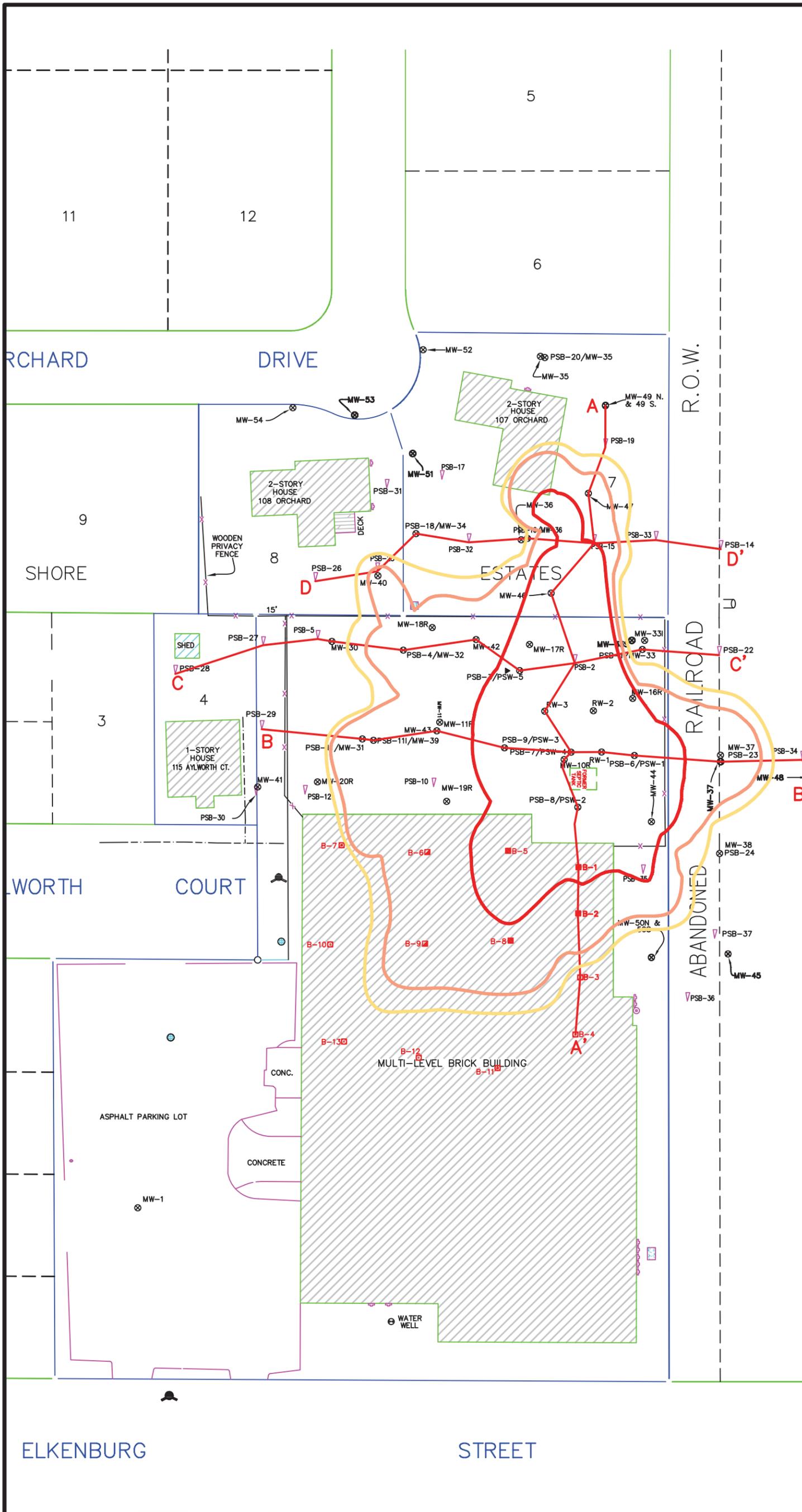
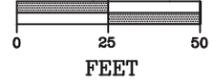
FIGURE 7
DISTRIBUTION OF TCE IN THE INTERMEDIATE GROUNDWATER UNIT - NOV 2010 / MAY 2012

		<p>TCE (ug/L) - Nov 2010 / May 2012</p> <ul style="list-style-type: none"> ● Non-detect ● Less than Part 201 DW Criterion ● Exceeds Part 201 DW Criterion ● Exceeds Part 201 GSI Criterion ● Exceeds Part 201 GVII Criterion ● Exceeds Part 201 GWC Criterion 	<p>DRAFTED: 05/31/12 BY: B. ROSS SCALE: 1" = 40'</p> <p>NOTE: INTERMEDIATE GROUND WATER UNIT OCCURS FROM 7-32 FEET BELOW GROUND SURFACE</p>
<p>--- Plume boundary changes based on 2012 data</p>		<p>FILE: P:\Current\DEQ0701\Eng\GIS\Maps\2012\Fig 7 TCE_Intermediate_May2012 Page 48 of 53</p>	

Appendix C

- **Belgravia Site**
 - **Treatment Zone Options**
 - **Cross-Section A-A'**
 - *Note: Basement Profile (Depth Estimated)*

NORTH



LEGEND

Csat/DC TARGET ZONE

SVII/GVII TARGET ZONE

GSIP/GSI TARGET ZONE



BELGRAVIA SOURCE REDUCTION TARGET ZONES

FIGURE 9
SPATIAL EXTENT OF TARGET ZONES

GEOLOGIC CROSS SECTION

LEGEND

Csat/DC TARGET ZONE

SVII/GVII TARGET ZONE

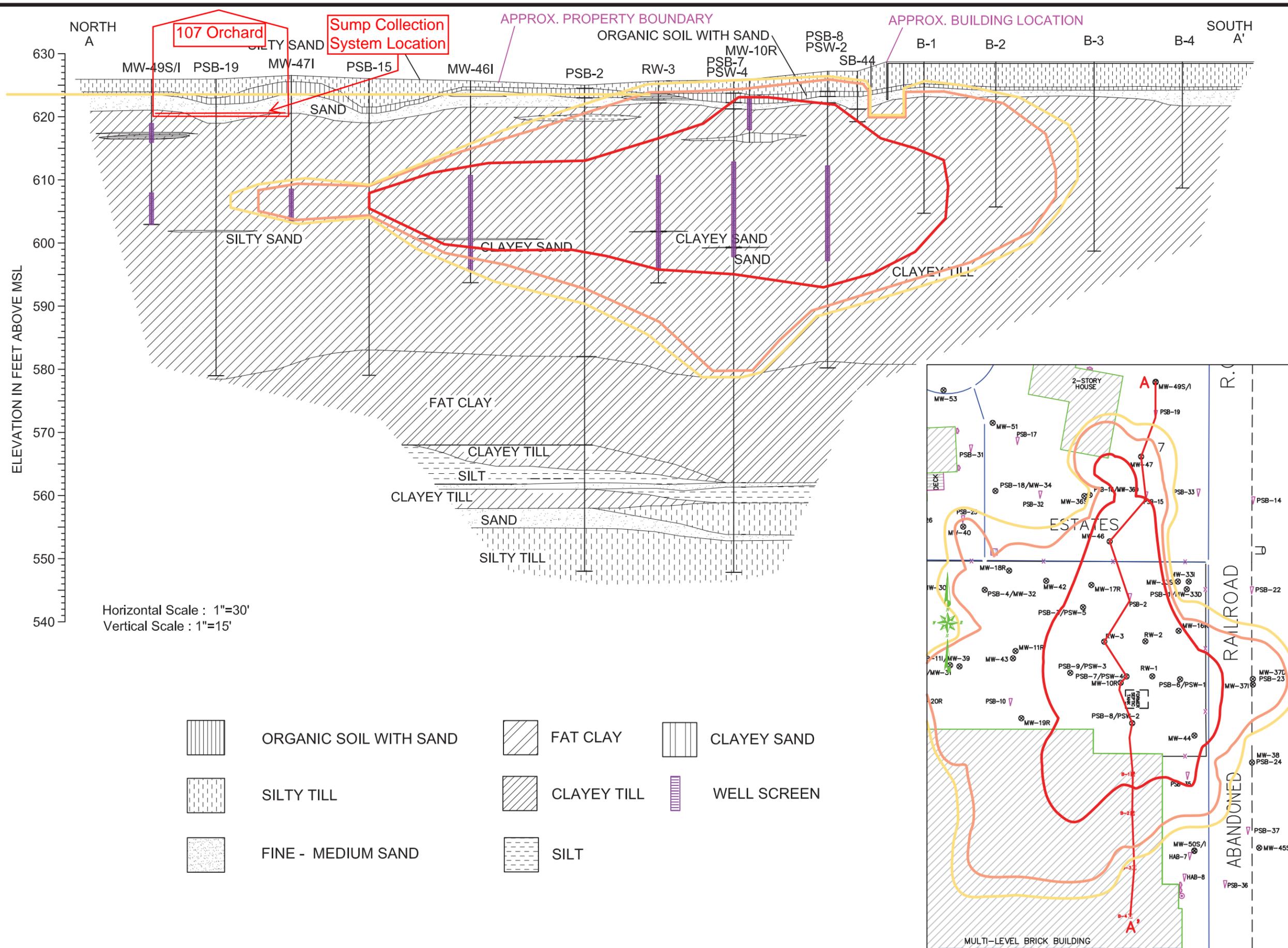
GSIP/GSI TARGET ZONE



BELGRAVIA SOURCE REDUCTION TARGET ZONES

FIGURE 10
CROSS SECTION A-A'

DRAWN BY: CLB DATE: 05/15/11 PROJECT: DEQ0701



Horizontal Scale : 1"=30'
Vertical Scale : 1"=15'

- | | | | | | |
|--|------------------------|--|-------------|--|-------------|
| | ORGANIC SOIL WITH SAND | | FAT CLAY | | CLAYEY SAND |
| | SILTY TILL | | CLAYEY TILL | | WELL SCREEN |
| | FINE - MEDIUM SAND | | SILT | | |



ADDENDUM #1

To the June 24, 2015 Request for Variance to the Ordinance, Section 86-156 Stormwater Disposition, Belgravia Site: Environmental Concern, MDEQ DMB File No. 761/07073.SAR

Respectfully Submitted to: Mr. Roger Huff, Director
Department of Public Works
1199 8th Avenue
South Haven, Michigan 49090-5319

Submittal Date: July 8, 2015

Global Remediation Technologies, Inc. on behalf of the Michigan Department of Environmental Quality (MDEQ) Remediation and Redevelopment Division (RRD) submits this Addendum #1 to the Request for Variance to the Ordinance under Section 86-156, titled Stormwater Disposition to the Board of Public Utilities and to the City Council.

This addendum contains the following elements of commitment.

- I. Sunset Date for Sump Plumbing Disconnect from Sanitary Sewer Piping (residential dwellings located at 107 and 108 Orchard Drive)
 - a. Per the June 24, 2015 document submittal each Annual Letter Report will include an evaluation of the site conditions, sump discharge water chemistry and render a decision if the plumbing can be disconnected.
 - b. This Addendum # 1 hereby puts forth that MDEQ-RRD will be required to disconnect the system on or before August 31, 2022 (*i.e. within seven years after connection*). It is understood that the sole authority to establish a new sunset date (*beyond August 31, 2022*) rest with the Board of Public Utilities and City Council; should impact levels suggest connection remain.

- II. Action Plan for Pre-treatment or Immediate Disconnection
 - a. Per Table 1 of the June 24, 2015 document submittal the MDEQ Part 201 regulatory acceptable value for groundwater venting to surface (GSI) is 620 ug/L cis-1,2-Dichloroethylene and 200 ug/L Trichloroethylene. Although the sump discharge water to sanitary will immediately mix with hundreds upon thousands gallons of waste water, from the neighboring homes and subdivisions respectively, a laboratory exceedance value of 3 times GSI (*i.e. 1860 ug/L cis-1,2-Dichloroethylene and 600 ug/L Trichloroethylene*) will trigger immediate re-sampling for two consecutive months.
 - b. This Addendum # 1 hereby puts forth that if the re-sampled sump discharge water exceeds 3 times GSI then MDEQ-RRD will be required to equip the sump discharge with granular activated carbon pre-treatment or disconnect from the sanitary system.

Note: All sump discharge laboratory analytical results will be sent to the WWTP Superintendent within 30 days of receipt throughout the year. The WWTP Superintendent will be sent each Annual Letter Report prepared for the Board of Public Utilities and City Council.

Sec. 86-141. Supervision of connection of building sewer to public sewer.

The applicant for the building sewer permit shall notify the city when the building sewer is ready for inspection and connection to the public sewer. The connection shall be made under the supervision of the city superintendent or his representative.

(Code 1965, Sec. 6.07(k))

Sec. 86-142. Guarding of excavations.

All excavations for building sewer installation shall be adequately guarded with barricades and lights so as to protect the public from hazard. Streets, sidewalks, parkways, and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the city.

(Code 1965, Sec. 6.07(l))

Secs. 86-143--86-155. Reserved.

DIVISION 4. SEWER USE

Sec. 86-156. Stormwater disposition.

(a) No person shall discharge or cause to be discharged any stormwater, surface water, groundwater, roof runoff, subsurface drainage, uncontaminated cooling water, or unpolluted industrial process waters to any sanitary sewer.

(b) Stormwater and all other unpolluted drainage shall be discharged to such sewers as are specifically designated as combined sewers or storm sewers, or to a natural outlet approved by the appropriate state agency. Industrial cooling water or unpolluted process waters may be discharged upon approval of the appropriate state agency, to a storm sewer or natural outlet.

(Code 1965, Sec. 6.08)

Sec. 86-157. Interceptors.

Grease, oil, and sand interceptors shall be provided when, in the opinion of the city, they are necessary for the proper handling of liquid wastes containing grease in excessive amounts, or any flammable wastes, sand, or other harmful ingredients; except that such interceptors shall not be required for private living quarters or dwelling units. All interceptors shall be of a type and capacity approved by the city and shall be located as to be readily and easily accessible for cleaning and inspection.

(Code 1965, Sec. 6.10)

Sec. 86-158. Sewage flow determination.

To determine the sewage flow from any establishment, the board of public utilities may use one of the following methods: