

# Board of Public Utilities

## Regular Meeting Agenda

Monday, March 26, 2012  
4:00 p.m., DPW Conference Room, 1199 8<sup>th</sup> Avenue



City of South Haven

1. Call to Order
2. Roll Call
3. Approval of Agenda
4. Approval of Minutes – February 27, 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. **Water Filtration Plant Construction Project**
  - A. Fishbeck, Thompson, Carr & Huber Monthly Status Report 42
9. **Indian Grove Infrastructure Project**
  - A. Sewer Study Progress Report
10. **Unresolved Issues Report**

### NEW BUSINESS

11. **Board will be requested to review fees for water connections, sewer connections, and water meter deposits.**

**12. Next meeting is scheduled for Monday, April 30, 2012 at 4:00 pm in the DPW Conference Room, 1199 8<sup>th</sup> Avenue, South Haven, Michigan.**

**13. Director's Comments**

**14. Board Member Comments**

**15. 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.

# Board of Public Utilities

## Regular Meeting Minutes

Monday, February 27, 2012  
4:00 p.m., DPW Conference Room, 1199 8<sup>th</sup> Avenue



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

### 2. Roll Call

Present: Berry, Burr, Olson, Rose (ex-officio), Stein (ex-officio), Stickland  
Absent: Henry, Overhiser (ex-officio)

Also present: Conklin, Mulac, Halberstadt, Hochstedler

Motion by Olson, second by Berry to excuse Henry. All in favor. Motion carried.

### 3. Approval of Agenda

Motion by Olson, second by Berry to approve the agenda as revised.

After Item #5 go to Item #13, then Item #10, then Item #12.

All in favor. Motion carried.

### 4. Approval of Minutes – November 28, 2011

Motion by Berry, second by Olson to approve the November 28, 2011 minutes with the following corrections:

- o Add page number and item number to the additions to the October 31, 2011 minutes, as noted in the November 28, 2011 minutes, Item #4.

All in favor. Motion carried.

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

Mark Clayton, Covert. Clayton stated that he owns two rentals and got a bill with a large amount. Clayton explained that the house was occupied by two renters, man and woman. The woman moved out and had the water turned off because it was in her name. The man was there about four more weeks, during which Clayton was going through the eviction process, but the renter left before the court date.

Clayton's wife called Utility Billing and said she wanted the water bill put in their name and was told it automatically goes back into their name, because they are the landlords.

Clayton explained several times that his wife paid all the water bills, but they were not aware that the \$18.00 was for stand-by fees, not water usage. Lane feels this is unfair; the tampering fee of \$250 because he and his wife did not do the tampering, and the \$18 standby fee when there was no water usage.

Huff said the water on the account was a cut off on March 1; the order was filled. Huff explained when water is cut off by request it is just turned off by the valve in the meter pit. Hochstedler explained there was usage noted when city staff was out checking meters.

Stickland said the reason you pay the \$18 per month is for the infrastructure and the organization behind it, so when the customer want water it is available. Lane said he understands that, but it is different with other utilities, for example if you have the gas shut off, you don't get a gas bill. If you have the electric shut off, you don't have an electric bill. Lane does not think it is fair because in Covert Township they pay for the water tap on their taxes.

Stein explained that it is divided up between everyone. The part-time residents are paying it every month to help subsidize the water system that had to be installed for them, but are also subsidizing it for the full-time residents. Clayton said he did not live there, the renter did the tampering, so he feels it unfair. Stickland noted that the Board has made that the rule. Lane said the woman in utilities told him someone tampered with the meter and Lane is responsible to pay for it.

Olson said he agrees with Lane.

Rose asked what evidence there is that tampering occurred to which Huff said there was usage after the requested cut-off was done.

Berry requested lenience.

Motion by Berry, second by Olson to waive the penalty. All in favor. Motion carried.

Burr noted that on our policy we should differentiate between a meter that has been sealed and it is tampered with or one that is just turned off. Huff suggested when the valve is turned off always lock it and take a picture. This provides more evidence that it has been tampered with.

## 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
- F. 2011 Audit Reconciliation

## **8. Water Filtration Plant Construction Project**

- A. Fishbeck, Thompson, Carr & Huber Monthly Status Report 40
- B. Fishbeck, Thompson, Carr & Huber Monthly Status Report 41

## **9. Unresolved Issues Report**

### UNFINISHED BUSINESS

## **10. Board will be presented the Waste Water Treatment Plant Evaluation/Master Plan Supplemental Evaluation letter report prepared by Hubbell, Roth & Clark, Inc.**

Dennis Benoit; Hubbell, Roth & Clark, Inc. Benoit stated that about a year ago the Board and he had talked about the Master Plan itself; studied the plant mainly in 2010 and last year analyzed the data from the survey of the plant. Benoit noted that the wet weather flows came up somewhat in parallel; what impact would there be if we got all of those flows out of the system, would it make a difference to the plant? After reviewing the data, Benoit noted that the problems are mostly due to the age and condition of the plant. The peak hour flow is related a lot to how many inflow sources you have (how leaky is the system?) The highest projection is 9.9 to get it to the pump station. Could we plug up some of those leaks and lower that? Benoit noted "That is what you (the City) are having Abonmarche looking at as well as looking further on various trunk lines to find the major leaks to plug them off."

Benoit asked, "If you were able to take that original flow peak projection of 9.9; could that be reduced significantly." Benoit noted that the City has paid for studies over the past ten to twenty years and trying to identify where the peak flows are in the system. Benoit explained that this analysis is making the assumption of removing that 21% of your peak Infiltration and Inflow. If that much flow has been identified that could be taken out, what cost impact would that have on these various processes?

Benoit noted the raw wastewater pumping, raw waste water screening, grit removal and settling and stated that it might be a good idea to combine several flows and build one pump station at the plant location. Primarily, we recognize one less pump could be put in, resulting in a 3-pump system instead of a 4-pump system. We are not proposing a huge rebuild of the upfront screening channels; it is the building that needs to be rebuilt because it is corroded and in pretty bad condition.

Benoit noted that the Grit Removal System will pretty stay the same. Settling is very physical and related very closely to how much flow is coming into the plant. If you can get a lot of Infiltration and Inflow out of the system, settling will see a lot of impact.

Benoit stated that things that do not have a big impact are bio secondary treatment, bio solids handling and disposal and other plant improvements. Bio treatment will remain the same and as will the handling. Solids will be about the same even if you get rid of extra rainwater.

Benoit noted that reducing the peak flow on a given day may have a bigger impact than the average daily excess flow of 2.0 MGD (Million Gallons per Day). 24 hour Average wet weather flow could drop from 6.75 to 4.75 MGD.

Benoit spoke to the sensitivity of each process:

- Raw Wastewater Pumping and Raw Wastewater Screening. The cost impact is fairly insignificant.
- Grit removal: does not anticipate any improvement. Did see that downsizing the tank and only adding one new tank might be possible if we can reduce the flow.
- Size of blowers and other equip would not be impacted.
- Disinfection – minimal Building and Site Improvement – no cost impact Solids Handling Improvements – no cost impact.

Benoit noted that the bottom line is on phase 1, 2 and 3 improvements. The Priority One project totaled about \$7,380,000 but with infiltration & Inflow reduction could be taken down to \$6,650,000. A breakdown was provided in the Power Point presentation.

Benoit stated that Priority 2 & 3 projects are all fairly much the same with the exception that we might be able to downsize the whole capacity of the aeration tanks if we can reduce the infiltration & inflow.

Benoit said if you look at these two items there are some impacts; noted a 10% cost relief with pursuit of Infiltration & Inflow to influence plant performance. Benoit said there is an S-2 grant program with the Department of Environmental Quality; the plant improvements in parallel with the collection system improvements; the flow dependent items may have to wait until the results of the Infiltration & Inflow study are a little more defined.

Stickland asked what the S-2 grant covers. Benoit noted the S-2 is only for engineering. Stickland asked if we were approved for the S-2 grant for the collection system. Huff and Halberstadt said yes, it has been approved and started.

Benoit commented that one of the stipulations connected to the S-2 grant is to apply for a loan from the Department of Environmental Quality within three years of the date of the completion of the plans and specifications.

Halberstadt asked Benoit what could happen if we do not do something; Benoit said we could wind up getting permit violations. Mulac pointed out that the moving parts of that equipment are 1962. Mulac also stated that the Aeration System was improved in 1988 but shows signs of deteriorating. Mulac noted that the City is pushing the limits on the plant very significantly. Halberstadt noted that finding parts for these old mechanisms is nearly impossible and sometimes the only way to obtain a part is to have it be custom built, making the plant work at half power until the part can be manufactured. Benoit noted that is why having three pumps would help with that sort of problem. Benoit said when equipment breaks in an emergency situation it always costs more than when replaced under a planned project.

Burr said he cannot see how the Infiltration & Inflow can be reduced by twenty percent Benoit said the numbers are still significant. Halberstadt said looking at videotapes we have had done in the past, the system has many clay pipes with a lot of small defects. The problem is chasing those down to get rid of those small infiltrations. Burr said we did the St. Joe project and never forced people to plumb their pumps out of the sanitary sewers. Benoit said it is difficult for a City to do: it usually takes a new ordinance. Halberstadt said even with an inspection, it could be put into the sanitary sewer the next day, and noted that there has to be some education involved in this, too. Huff said as far as Benoit's task, he is using what has already been documented; if the reduction is less, the numbers for the process will get closer to our original figures.

Stickland said we need to get started now; "five years comes fast and I have sympathy for Mulac; he has come very close to permit violations numerous times." Stickland stated that this project is the only way to handle this problem; asked "What are our options?" and noted that the City cannot shut down the sewer plant.

Burr said if you start the engineering the clock starts ticking. Stein asked if the entire project has to be done immediately or just Phase 1. Benoit said there are some things in Phases 2 and 3 that should be done in conjunction with Phase 1; let us zero in on a project somewhere between the two. Stickland said we will probably end up with another \$20,000,000 project. Burr said, regarding the assumption of reducing flow by twenty percent, there is a huge amount that is bypassing the system and running directly into the river. Burr said the problem is that most people have houses that are piped into the sewer system. Halberstadt said one suggestion is to have a holding tank for all the excess water, which can be treated over time.

**11. Board will be presented an update of the Indian Grove Infrastructure Project prepared by Abonmarche Consultants, Inc.**

NEW BUSINESS

**12. Board will be presented the Data Evaluation Report of Water Quality Sampling for *E. coli*, Peterson and Phoenix Drains prepared by Fishbeck, Thompson, Carr & Huber.**

Huff noted this is the e-coli study; the second step prompted by the data sampling program we did starting in July 2010 as a result of the beach closures.

Claire Schwartz and Wendy Ogleby; Fishbeck, Thompson, Carr & Huber.

Schwartz said they focused on the Phoenix and Peterson Drains because the 2010 study showed high counts in those two bodies. Out of 90 samples during that period, about 51% exceeded water quality standards. Schwartz noted that the E-coli counts were not of grave concern however some very high counts were found in the Peterson Drain. Schwartz noted that some of that can be attributed to an illicit drain which was found and remedied recently.

Schwartz stated that on the Phoenix Drain there were a number of monitoring sites. The monitoring is done at one point in time so it is hard to put it all together to come to a specific conclusion.

Stickland asked why there was not more found downstream; Schwartz stated it could be dilution or it could be that all of the contamination had not made its way downstream at the time of the samplings. In the Peterson Drain it was thought it could be due to illicit connections whereas in the Phoenix Drain might be runoff. While there was thought that private septic systems might be contributing to the problem, the septic systems that exist were not located close to the areas where the worst numbers were found. The highest numbers are during the summer which could be tourism or seasonal wildlife.

Schwartz noted that there were no sanitary sewer overflows during the time their sampling was being done. One sample, from the Peterson Drain, was sent to Michigan State University for DNA testing; no human or bovine markers were found. What was found was not high enough to cause the beach closings which happened during the 2010 season. If there are westerly winds following 2" of rain, as there was in 2010; there is a larger contribution of e-coli than just those two drains. Heavy rain, wind conditions, but no conclusive evidence of what is the only cause.

Schwartz pointed out that Recommendations are at the end of the Executive Summary on page 1 in the report. Prioritized activities (Tier One) managerial actions which are mostly common sense things. Schwartz noted that the Van Buren County Drain Commissioner came out with some new standards that could be adopted to help minimize the potential for bacteria entering the waterways directly.

Tier Two activities include addressing your Sanitary Sewer Overflows; when the City does capital improvement projects incorporate some of the low impact storm water treatment activities. Schwartz stated that these activities or priorities are all outlined in the report in some detail.

Stickland asked if the drains are candidates for treatment. Schwartz said if there was a project on a site development level; treatment could include the use of vegetation; sandy soils mixed with compost to reduce runoff; or treat runoff on site. Stickland asked if that is something you can do in conjunction with retention; Schwartz said yes, there have been studies that have shown it can be effective. Schwartz reiterated that if the City adopts the Van Buren County Drain Commission standards, new developments have to meet those standards. Another activity that is helpful is continued maintenance of the storm and sanitary sewers and county drains.

Burr said the day we had the beach closure the plume was flowing to the north, and the north beach tested okay, while the south beach was the one that tested bad. Halberstadt noted that the plume may have shifted. The wind shifts and it can vary. Schwartz said we did not look at the wind just the day off the beach closing, but also the time prior to the beach closing. Schwartz noted that there was a Sanitary Sewer Overflow and then several days with a predominantly southerly wind and then the beach closing. Schwartz stated that in inspecting the data it does seem there was a correlation with the Sanitary Sewer Overflow and the amount of rainfall that occurred and what is coming out of the Black River, specifically. Schwartz stated that there was no smoking gun found in the Drains.

Wendy Ogleby, Fishbeck, Thompson, Carr & Huber. Ogleby noted that wave action can reactivate e-coli. Stickland said when there is a Sanitary Sewer Overflow, Mulac, the Wastewater Superintendent, goes to the bridge and takes samples and does not find e-coli levels to be high. When you do have a Sanitary Sewer Overflow it is a heavy rainfall everywhere, with everything flowing to the lake.

Schwartz noted that the second beach closing had wind from the west to the east and more commingling than with a north-south wind.

Halberstadt asked for Ogleby to explain future plans. Ogleby said a grant has been applied for with the Southwest Michigan Planning Commission that started in October 2011. To get the grant some other water bodies that were on the States' "bad" list for water quality had to be included so the Paw Paw watershed was added to the Black River watershed. Ogleby noted that there is a committee which will conduct sampling, conduct analysis, lined up some labs to look at things like caffeine to identify the sources more quickly than through DNA testing, education and outreach, and write an implementation plan. This is an expansion of the current plan, with the expansion of more water bodies.

For the Black River watershed, levels and sources of E.coli will be looked at. For Pine Creek they will try to determine if the E.coli is from the City of Hartford or one of the large dairy farms in the area? For Mill Creek; how do levels of E.coli affect the beach at Three Rivers?

The Black River gets flow from the Phoenix Drain, the Peterson Drain, North Branch and South Branch. The Health Department will conduct sampling in the places where we found high levels. Halberstadt said we talked about adding a couple of sampling points on Deerlick Creek; Ogleby noted that we are going to meet Friday with the DEQ. If the DEQ cannot or will not pay for extra testing, the City and the Drain Commissioner are going to try together to fund those. Ogleby noted that since these are not in the Black River watershed it is possible we cannot do that, but if they allow us to do single grab samples instead of triple samples, it will reduce the cost and we will be able to test more sites.

**13. Board will be requested to approve the purchase of consignment transformers from Power Line Supply.**

Stickland said we have a policy with purchasing our electric materials, with an agreed-upon markup. With the agreement Power Line Supply (PLS) keeps inventory for us. It saves the City having to go through the bidding process and we have the right to audit their books. The issue that has come up for Power Line Supply is that being in a slow-down economy has affected them. They purchased transformers to meet our anticipated need and maybe even more than that when building was at peak.

Stickland explained that Power Line Supply is asking for relief on the transformers they say were bought primarily for the City of South Haven. They have about \$600,000 worth of transformers they would like us to buy. Bill Conklin has looked at our needs and determined how many transformers we need in case of failure so we can get failed transformers replaced and up and running in good time. This request is to help the company with their cash-flow problem. Berry asked if they will continue to store them for us; Stickland said we will take possession of the transformers we pay for. Burr said he thought Ray ordered some odd sized ones. Stickland said none of these were under a purchase agreement; there is no evidence that we requested them to have these transformers on hand, but they purchased them "for us". Stickland said we feel that purchasing those transformers is a satisfactory resolution, but it is going to take some negotiations. Stickland said the agreement worked well but to keep things working smoothly. Stickland recommends that the Board buy the transformers Conklin has identified.

Berry asked if they have transformers beyond the 35; Conklin said yes, they do. Stein asked if the cost will be significantly higher if we bought new ones. Conklin said some of them were bought when demand was high and inventory was low so the cost was higher. Burr asked if they will be sold at what we paid for them, Conklin said he charges what the market price is.

Olson said he thinks this is a one-sided agreement; Stickland begged to disagree with them. Olson noted that the agreement says we will purchase transformers up through September. Stickland answered Rose's question about cost noting that it isn't about cost as much as it is about availability. If we have to purchase by the approved method, there is a bid process and a lead-time.

Motion by Burr, second by Berry to purchase these transformers at the price indicated.

Nay: Olson, rest in favor – Motion carried.

Stickland noted that this agreement is up in September and will be up for renewal; it will be discussed at that time. Olson noted that we are just doing this to help them out; Stickland noted that is true.

**14. Next meeting is scheduled for Monday, March 26, 2012 at 4:00 pm in the DPW Conference Room, 1199 8<sup>th</sup> Avenue, South Haven, Michigan.**

**15. Director's Comments**

There were none.

**16. Board Member Comments**

There were none.

**17. Adjourn**

Motion by Olson, second by Burr to reconvene the meeting on Friday at 9 a. 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)  
 2012

Date	ACTUAL				BILLING			COST				PJM Open Access Transmission Tariff						Total Cost	cts/ KWH		
	KW Demand	KVAR Demand	KVA	Power Factor	KW Demand	KVAR Demand	KWHS	\$ KW Demand	\$ KWH	\$ Fuel Charge	\$ Fuel Adjust	Actual Fuel True-up	SCADA \$ KWHS	\$ Network	RTU 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	

**CITY OF SOUTH HAVEN**  
 Cost of Electric Energy from Indiana-Michigan Power Company (AEP)  
 2011

Date	ACTUAL				BILLING			COST					PJM Open Access Transmission Tariff						Total Cost	cts/ KWHR
	KW Demand	KVAR Demand	KVA	Power Factor	KW Demand	KVAR Demand	KWHRs	\$ KW Demand	\$ KWHR	\$ Fuel Charge	\$ Fuel Adjust	Actual Fuel True-up	Sch 1A \$ KWHRs	\$ Network	RTO Start-up \$	Other	Credits	Total PJM		
Main	11,228	1,663	11,350	0.9892	11,228	1,663	7,239,784	\$155,496.21	\$91,856.93											
Welder	269	207	339	0.7928	269	207	53,773	\$3,724.00	\$682.26											
Phoenix	7,585	977	7,647	0.9918	7,585	977	4,651,607	\$105,040.08	\$59,018.66											
Welder	19	26	32	0.5871	19	26	8,343	\$263.13	\$105.85											
Jan-11	19,101	2,873	19,315	0.9889	19,101	2,873	11,953,507	\$264,523.42	\$151,663.70	\$209,894.01	\$24,418.62	\$56,802.84	\$1,259.60	\$59,786.26	\$264.76	\$7,328.78	(\$1,656.05)	\$66,983.35	\$774,285.94	6.477
Main	11,317	1,446	11,409	0.9919	11,317	1,446	6,400,436	\$156,729.10	\$81,207.45											
Welder	63	224	232	0.2713	63	224	40,983	\$872.49	\$519.98											
Phoenix	7,747	925	7,802	0.9929	7,747	925	4,102,424	\$107,282.63	\$52,050.73											
Welder	10	25	27	0.3675	10	25	6,337	\$135.72	\$80.41											
Feb-11	19,136	2,619	19,315	0.9908	19,136	2,619	10,550,180	\$265,019.93	\$133,858.57	\$185,252.72	(\$188.85)	\$12,773.86	\$1,111.72	\$54,000.49	\$239.13	\$7,328.78	(\$1,230.20)	\$61,449.92	\$658,166.15	6.238
Main	10,809	1,463	10,908	0.9910	10,809	1,463	6,756,663	\$149,693.90	\$85,727.19											
Welder	310	216	378	0.8198	310	216	45,295	\$4,286.27	\$574.70											
Phoenix	7,040	834	7,089	0.9931	7,040	834	4,314,678	\$97,495.63	\$54,743.77											
Welder	10	28	29	0.3275	10	28	7,453	\$132.95	\$94.56											
Mar-11	18,168	2,541	18,345	0.9904	18,168	2,541	11,124,090	\$251,608.74	\$141,140.23	\$195,330.12	(\$51,493.41)	(\$39,751.40)	\$1,172.20	\$59,786.26	\$264.76	\$7,328.78	(\$1,200.49)	\$67,351.51	\$564,185.79	5.072
Main	10,639	1,501	10,744	0.9902	10,639	1,501	6,146,900	\$147,339.10	\$77,990.64											
Welder	461	225	513	0.8988	461	225	100,331	\$6,389.93	\$1,272.98											
Phoenix	6,968	893	7,025	0.9919	6,968	893	3,984,501	\$96,495.04	\$50,554.55											
Welder	9	59	60	0.1573	9	59	10,581	\$130.18	\$134.24											
Apr-11	18,078	2,678	18,275	0.9892	18,077	2,678	10,242,312	\$250,354.24	\$129,952.41	\$179,846.81	(\$52,243.99)	(\$13,625.51)	\$1,079.28	\$57,857.67	\$256.22	\$7,328.78	(\$1,135.36)	\$65,386.59	\$559,670.55	5.464
Main	10,574	3,876	11,262	0.9389	10,574	3,876	6,533,012	\$146,445.32	\$82,889.55											
Welder	181	254	311	0.5809	181	254	122,023	\$2,505.28	\$1,548.21											
Phoenix	14,061	3,655	14,528	0.9678	14,061	3,655	4,356,917	\$194,731.34	\$55,279.69											
Welder	9	24	25	0.3398	9	24	16,180	\$119.10	\$205.29											
May-11	24,825	7,908	26,024	0.9539	24,825	7,908	11,028,133	\$343,801.05	\$139,922.74	\$193,645.18	(\$15,522.10)	\$75,836.26	\$1,162.09	\$59,786.26	\$264.76	\$7,328.78	(\$1,264.19)	\$67,277.70	\$804,960.83	7.299
Main	16,113	4,818	16,818	0.9581	16,113	4,818	7,177,522	\$223,148.80	\$91,066.96											
Welder	242	252	349	0.6920	242	252	113,105	\$3,344.53	\$1,435.06											
Phoenix	11,893	4,473	12,706	0.9360	11,893	4,473	4,932,546	\$164,701.93	\$62,583.16											
Welder	10	20	22	0.4292	10	20	6,568	\$132.95	\$83.34											
Jun-11	28,257	9,563	29,831	0.9472	28,257	9,563	12,229,742	\$391,328.22	\$155,168.52	\$200,934.20	(\$16,775.50)	\$58,194.61	\$1,288.70	\$57,857.67	\$256.22	\$8,284.48	(\$1,122.84)	\$66,564.23	\$855,414.27	6.995
Main	18,848	6,308	19,876	0.9483	18,848	6,308	6,455,008	\$275,897.17	\$78,658.15											
Welder	245	179	303	0.8079	245	179	88,956	\$3,587.77	\$1,083.98											
Phoenix	13,692	5,577	14,784	0.9261	13,692	5,577	9,413,392	\$200,423.67	\$114,707.83											
Welder	12	22	25	0.4870	12	22	7,263	\$178.73	\$88.50											
Jul-11	32,797	12,085	34,953	0.9383	32,797	12,085	15,964,619	\$480,087.35	\$194,538.46	\$262,298.08	(\$26,834.87)	(\$7,040.06)	\$1,515.52	\$75,365.33	\$264.76	\$8,560.31	(\$1,674.81)	\$84,031.11	\$987,080.07	6.183
Main	18,464	6,006	19,416	0.9510	18,464	6,006	8,972,231	\$270,275.45	\$109,332.02											
Welder	319	184	368	0.8668	319	184	89,069	\$4,670.99	\$1,085.35											
Phoenix	12,989	5,068	13,942	0.9316	12,988	5,068	5,563,598	\$190,125.08	\$67,795.78											
Welder	11	20	22	0.4845	11	20	7,223	\$158.09	\$88.01											
Aug-11	31,782	11,277	33,724	0.9424	31,782	11,277	14,632,120	\$465,229.60	\$178,301.16	\$240,405.17	(\$35,471.10)	\$7,128.23	\$1,389.03	\$75,365.33	\$264.76	\$9,054.17	(\$1,415.95)	\$84,657.34	\$940,250.40	6.426
Main	16,809	4,991	17,534	0.9586	16,809	4,991	6,670,577	\$246,050.27	\$81,284.98											
Welder	306	268	407	0.7526	306	268	109,944	\$4,485.08	\$1,339.73											
Phoenix	11,652	4,259	12,406	0.9392	11,652	4,259	4,520,664	\$170,562.11	\$55,087.00											
Welder	11	22	25	0.4456	11	22	6,642	\$161.02	\$80.94											
Sep-11	28,778	9,540	30,318	0.9492	28,778	9,540	11,307,826	\$421,258.48	\$137,792.65	\$185,787.16	(\$8,134.83)	\$35,349.95	\$1,073.45	\$72,934.19	\$256.22	\$8,769.09	(\$1,154.19)	\$81,878.76	\$853,932.17	7.552
Main	11,090	2,107	11,288	0.9824	11,090	2,107	6,635,850	\$162,335.07	\$80,861.81											
Welder	328	381	503	0.6520	328	381	104,735	\$4,796.87	\$1,276.25											
Phoenix	7,575	2,040	7,845	0.9656	7,575	2,040	4,222,552	\$110,882.70	\$51,454.33											
Welder	9	36	37	0.2553	9	36	6,742	\$137.60	\$82.16											
Oct-11	19,002	4,564	19,543	0.9723	19,002	4,564	10,969,879	\$278,152.24	\$133,674.56	\$180,234.71	(\$15,192.15)	\$35,207.13	\$1,041.37	\$75,365.33	\$264.76	\$8,409.93	(\$1,207.56)	\$83,873.83	\$695,950.32	6.344
Main	11,070	1,759	11,209	0.9876	11,070	1,759	6,521,794	\$162,042.51	\$79,471.97											
Welder	387	265	469	0.8246	387	265	106,103	\$5,660.51	\$1,292.93											
Phoenix	7,143	970	7,208	0.9909	7,142	970	4,105,541	\$104,551.81	\$50,028.48											
Welder	9	30	32	0.2876	9	30	6,559	\$133.21	\$79.93											
Nov-11	18,608	3,025	18,853	0.9870	18,608	3,025	10,739,997	\$272,388.05	\$130,873.31	\$176,457.74	(\$196.54)	\$27,927.90	\$1,019.55	\$72,934.19	\$256.22	\$7,499.07	(\$1,134.92)	\$80,574.11	\$688,024.57	6.406
Main	11,527	1,645	11,644	0.9900	11,527	1,645	7,075,076	\$168,731.79	\$86,214.04											
Welder	362	208	417	0.8675	362	208	122,046	\$5,297.49	\$1,487.20											
Phoenix	7,209	813	7,255	0.9937	7,209	813	4,404,115	\$105,525.01	\$53,666.78											
Welder	9	26	28	0.3304	9	26	16,537	\$133.21	\$201.52											
Dec-11	19,107	2,691	19,296	0.9902	19,107	2,691	11,617,774	\$279,687.49	\$141,569.55	\$190,879.59	\$18,692.96	\$52,842.65	\$1,102.88	\$75,365.33	\$264.76	\$7,252.29	(\$1,237.77)	\$82,747.49	\$766,419.73	6.597

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
<b>FISCAL 2010</b>								
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>		
<b>FISCAL 2011</b>								
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>		
<b>FISCAL 2012</b>								
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%
		<u>340,778,000</u>	<u>45,558,556</u>	<u>206,184</u>	<u>1,500,928</u>	<u>39,422,367</u>		
Prior Year-to-Date		367,074,000	49,074,064	608,592	1,360,734	42,210,334		
Two Years Prior		353,170,000	47,215,241	479,052	226,799	42,922,626		

City of South Haven  
Water Fund - Fund 591  
For the period ended February 29, 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	\$ 203,087	\$ 232,928	\$ 190,985	\$ (29,841)	\$ 12,102	\$ 1,913,660	\$ 1,863,423	\$ 2,082,944	\$ 50,236	\$ (169,284)	\$ 2,795,135	103%
Charges for Service	4,899	5,833	4,476	(934)	424	33,494	46,667	66,391	(13,172)	(32,897)	70,000	72%
Interest Income	131	208	221	(77)	(90)	1,413	1,667	2,594	(254)	(1,181)	2,500	85%
Special Assessment Revenue	15,733	1,417	16,087	14,317	(353)	45,250	11,333	74,357	33,916	(29,107)	17,000	399%
Other Revenue	1,759	2,500	2,013	(741)	(254)	22,232	20,000	41,824	2,232	(19,592)	30,000	111%
<b>Total Revenues</b>	<b>\$ 225,610</b>	<b>\$ 242,886</b>	<b>\$ 213,782</b>	<b>\$ (17,276)</b>	<b>\$ 11,829</b>	<b>\$ 2,016,048</b>	<b>\$ 1,943,090</b>	<b>\$ 2,268,110</b>	<b>\$ 72,958</b>	<b>\$ (252,062)</b>	<b>\$ 2,914,635</b>	

1                      2                      3                      4                      5                      6                      7                      8                      9                      10                      11

<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	\$ 98,847	\$ 104,577	\$ 85,481	\$ (5,730)	\$ 13,366	\$ 792,233	\$ 836,616	\$ 1,084,645	\$ (44,383)	\$ (292,412)	\$ 1,254,924	95%
Property Tax Equivalents	7,103	7,103	6,753	0	350	56,825	56,825	60,778	(0)	(3,952)	85,238	100%
Capital Outlay	-	18,165	-	(18,165)	-	2,369	145,316	54,631	(142,947)	(52,262)	217,974	2%
Debt Service	-	5,572	-	(5,572)	-	33,971	44,577	36,158	(10,606)	(2,186)	66,866	76%
Transfers Out	142,401	107,301	94,488	35,101	47,913	1,467,797	858,405	848,662	609,392	619,134	1,287,608	171%
Depreciation	47,917	47,917	16,307	-	31,610	383,333	383,333	130,456	-	252,877	575,000	100%
Administrative Expenses	13,125	19,074	15,784	(5,949)	(2,659)	146,176	152,592	180,753	(6,416)	(34,578)	228,888	96%
<b>Total Expenses</b>	<b>\$ 309,394</b>	<b>\$ 309,708</b>	<b>\$ 218,813</b>	<b>\$ (315)</b>	<b>\$ 90,580</b>	<b>\$ 2,882,704</b>	<b>\$ 2,477,665</b>	<b>\$ 2,396,083</b>	<b>\$ 405,039</b>	<b>\$ 486,622</b>	<b>\$ 3,716,498</b>	

Net Fund Change                      \$ (83,783)    \$ (66,822)    \$ (5,032)    \$ (16,961)    \$ (78,751)    \$ (866,656)    \$ (534,575)    \$ (127,972)    \$ (332,081)    \$ (738,684)    \$ (801,863)

\$ (226,863) no depr

City of South Haven  
Sewer Fund - Fund 592  
For the period ended February 29, 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	\$ 148,179	\$ 181,716	\$ 145,155	\$ (33,537)	\$ 3,023	\$ 1,363,453	\$ 1,453,725	\$ 1,499,290	\$ (90,271)	\$ (135,837)	\$ 2,180,587	94%
IPP Revenues	13,092	6,608	13,605	6,483	(513)	54,108	52,867	62,672	1,241	(8,564)	79,300	102%
Interest Income	48	625	46	(577)	3	3,416	5,000	2,300	(1,584)	1,117	7,500	68%
Special Assessment Revenue	21,223	1,833	19,904	19,389	1,319	59,661	14,667	95,795	44,994	(36,135)	22,000	407%
Other Revenue	100	292	-	(192)	100	3,004	2,333	14,207	671	(11,203)	3,500	129%
<b>Total Revenues</b>	<b>\$ 182,641</b>	<b>\$ 191,074</b>	<b>\$ 178,710</b>	<b>\$ (8,433)</b>	<b>\$ 3,932</b>	<b>\$ 1,483,643</b>	<b>\$ 1,528,591</b>	<b>\$ 1,674,264</b>	<b>\$ (44,949)</b>	<b>\$ (190,621)</b>	<b>\$ 2,292,887</b>	

<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	\$ 148,758	\$ 110,832	\$ 97,883	\$ 37,926	\$ 50,875	\$ 753,639	\$ 886,657	\$ 889,364	\$ (133,019)	\$ (135,725)	\$ 1,329,986	85%
Property Tax Equivalents	7,317	7,317	7,307	0	9	58,533	58,533	65,766	(0)	(7,233)	87,800	100%
Capital Outlay	-	39,882	1,253	(39,882)	(1,253)	7,034	319,055	46,027	(312,021)	(38,993)	478,583	2%
Transfers Out	443,163	20,542	64,685	422,621	378,478	516,203	164,333	215,183	351,869	301,019	246,500	314%
Depreciation	22,083	22,083	20,379	-	1,705	176,667	176,667	163,030	-	13,637	265,000	100%
Administrative Expenses	20,199	20,637	15,845	(439)	4,354	201,568	165,099	178,327	36,469	23,241	247,649	122%
<b>Total Expenses</b>	<b>\$ 641,519</b>	<b>\$ 221,293</b>	<b>\$ 207,352</b>	<b>\$ 420,226</b>	<b>\$ 434,167</b>	<b>\$ 1,713,643</b>	<b>\$ 1,770,345</b>	<b>\$ 1,557,697</b>	<b>\$ (56,702)</b>	<b>\$ 155,946</b>	<b>\$ 2,655,518</b>	

Net Fund Change           \$   (458,878)   \$   (30,219)   \$   (28,642)   \$   (428,659)   \$   (430,236)   \$   (230,000)   \$   (241,754)   \$   116,567   \$   11,754   \$   (346,567)   \$   (362,631)

\$   (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
<b>FISCAL 2010</b>								
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>		
<b>FISCAL 2011</b>								
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	10,683,209	10,132,196	54,196	49,608	10,186,392	93.32%	95.35%
November	2010	10,510,315	10,391,582	61,923	50,014	10,453,505	94.15%	99.46%
December	2010	10,683,209	10,002,716	67,037	50,217	10,069,753	94.80%	94.26%
January	2011	11,953,507	11,068,303	64,924	50,660	11,133,227	94.29%	93.14%
February	2011	10,550,180	11,250,292	61,029	51,221	11,311,321	94.97%	107.21%
March	2011	11,124,090	9,519,380	57,044	51,539	9,576,424	94.47%	86.09%
April	2011	10,242,312	10,338,916	48,737	51,775	10,387,653	94.39%	101.42%
May	2011	11,028,132	9,957,130	44,762	51,986	10,001,892	95.00%	90.69%
June	2011	12,229,714	12,173,212	38,326	52,024	12,211,538	95.61%	99.85%
		<u>142,022,973</u>	<u>135,168,108</u>	<u>624,289</u>		<u>135,792,397</u>		
<b>FISCAL 2012</b>								
July	2011	15,964,582	12,755,514	37,013	52,009	12,792,527	95.52%	80.13%
August	2011	14,632,086	15,136,722	42,500	52,092	15,179,222	95.39%	103.74%
September	2011	11,307,801	12,319,850	47,553	52,087	12,367,403	95.97%	109.37%
October	2011	10,969,854	9,722,952	56,849	52,308	9,779,801	95.56%	89.15%
November	2011	10,739,972	10,221,480	61,585	52,280	10,283,065	95.62%	95.75%
December	2011	11,617,747	9,798,051	68,085	101,307	9,866,136	95.27%	84.92%
January	2012	11,913,417	11,146,773	65,812	52,441	11,212,585	94.76%	94.12%
February	2012	10,944,615	10,940,177	58,568	52,236	10,998,745	95.34%	100.49%
		<u>98,090,074</u>	<u>92,041,519</u>	<u>437,965</u>		<u>92,479,484</u>		
Prior Year-to-date		97,398,725	93,179,470	435,420	399,975	93,614,890		
Two Years Prior		91,256,228	86,450,236	412,109	391,951	86,862,345		

City of South Haven  
Electric Fund - Fund 582  
For the period ended February 29, 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>
Electric Sales	\$ 1,150,099	\$ 1,130,689	\$ 1,177,924	\$ 19,410	\$ (27,825)	\$ 9,347,005	\$ 9,045,510	\$ 10,527,828	\$ 301,495	\$ (1,180,823)	\$ 13,568,265	103%
Charges for Service	\$ 18,989	\$ 8,333	\$ (2,333)	\$ 10,655	\$ 21,322	\$ 102,458	\$ 66,667	\$ 40,877	\$ 35,791	\$ 61,581	\$ 100,000	154%
Interest Income	\$ 3,745	\$ 2,917	\$ 100	\$ 828	\$ 3,645	\$ 28,457	\$ 23,333	\$ 16,310	\$ 5,124	\$ 12,147	\$ 35,000	122%
Other Revenue	\$ 2,490	\$ 2,083	\$ 1,096	\$ 406	\$ 1,394	\$ 29,566	\$ 16,667	\$ 63,544	\$ 12,900	\$ (33,977)	\$ 25,000	177%
Transfers In	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
<b>Total Revenues</b>	<b>\$ 1,175,322</b>	<b>\$ 1,144,022</b>	<b>\$ 1,176,786</b>	<b>\$ 31,300</b>	<b>\$ (1,464)</b>	<b>\$ 9,507,486</b>	<b>\$ 9,152,177</b>	<b>\$ 10,648,558</b>	<b>\$ 355,309</b>	<b>\$ (1,141,072)</b>	<b>\$ 13,728,265</b>	
	1	2	3	4	5	6	7	8	9	10	11	
<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>
Purchased Power	\$ 598,531	\$ 758,333	\$ 658,166	\$ (159,803)	\$ (59,636)	\$ 6,271,149	\$ 6,066,667	\$ 6,807,576	\$ 204,483	\$ (536,427)	\$ 9,100,000	103%
Other Operating Expenses	\$ 163,316	\$ 143,527	\$ 124,803	\$ 19,789	\$ 38,514	\$ 1,130,665	\$ 1,148,217	\$ 1,222,978	\$ (17,553)	\$ (92,314)	\$ 1,722,326	98%
Property Tax Equivalents	\$ 52,312	\$ 52,312	\$ 51,167	\$ (0)	\$ 1,146	\$ 418,499	\$ 418,499	\$ 460,500	\$ 0	\$ (42,001)	\$ 627,748	100%
Capital Outlay	\$ 57,424	\$ 51,213	\$ 1,148	\$ 6,210	\$ 56,275	\$ 214,024	\$ 409,705	\$ 63,434	\$ (195,681)	\$ 150,590	\$ 614,558	52%
Transfers Out	\$ -	\$ 78,041	\$ -	\$ (78,041)	\$ -	\$ 153,767	\$ 624,328	\$ 186,237	\$ (470,561)	\$ (32,470)	\$ 936,492	25%
Depreciation	\$ 40,500	\$ 40,500	\$ 39,510	\$ -	\$ 990	\$ 324,000	\$ 324,000	\$ 316,083	\$ -	\$ 7,917	\$ 486,000	100%
Administrative Expenses	\$ 103,981	\$ 70,677	\$ 50,467	\$ 33,304	\$ 53,514	\$ 575,708	\$ 565,417	\$ 551,455	\$ 10,291	\$ 24,253	\$ 848,125	102%
<b>Total Expenses</b>	<b>\$ 1,016,064</b>	<b>\$ 1,194,604</b>	<b>\$ 925,262</b>	<b>\$ (178,540)</b>	<b>\$ 90,802</b>	<b>\$ 9,087,812</b>	<b>\$ 9,556,833</b>	<b>\$ 10,156,539</b>	<b>\$ (469,020)</b>	<b>\$ (1,068,726)</b>	<b>\$ 14,335,249</b>	
 Net Fund Change	 \$ 159,258	 \$ (50,582)	 \$ 251,524	 \$ 209,840	 \$ (92,266)	 \$ 419,673	 \$ (404,656)	 \$ 492,019	 \$ 824,329	 \$ (72,346)	 \$ (606,984)	

# **City of South Haven Water Plant Projects Monthly Status Report**

## **Report 42**

**March 21, 2012  
Project No. G07734ED**



**Fishbeck, Thompson, Carr & Huber**  
engineers • scientists <sup>18 of 46</sup> architects • constructors

March 26, 2012  
BPU Regular Meeting Minutes

**CITY OF SOUTH HAVEN  
WATER PLANT PROJECTS  
MONTHLY PROGRESS REPORT NO. 42**

**PREPARED FOR:  
THE CITY OF SOUTH HAVEN, MICHIGAN**

**MARCH 21, 2012  
PROJECT NO. G07734ED**

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## LIST OF ABBREVIATIONS/ACRONYMS

FTC&H	Fishbeck, Thompson, Carr & Huber, Inc.
City	City of South Haven
RWPS	Raw Water Pump Station
Floc/sed	Flocculation and sedimentation
WFP	Water Filtration Plant
MCC	Motor Control Center
HVAC	Heating, ventilating, and air conditioning
MDNRE	Michigan Department of Natural Resources and Environment
SCADA	Supervisory Control and Data Acquisition
VCT	Vinyl Composite Tile
VFD	Variable Frequency Drive



March 21, 2012  
Project No. G07734WP

Mr. Roger Huff, P.E.  
City of South Haven  
1199 8th Avenue  
South Haven, MI 49090

RE: Water Filtration Plant  
Monthly Status Report

Dear Mr. Huff:

This is our Monthly Status Report No. 42 for the period ending March 16, 2012. This report contains a summary of work performed up to that date.

If you have any questions or require additional information, please call 616-464-3892.

Sincerely,

FISHBECK, THOMPSON, CARR & HUBER, INC.

Randall J. Oostdyk  
Senior Construction Manager

sdg  
Enclosures  
cc: Mr. Chad R. Everts, LEED® AP – FTC&H

1515 Arboretum Dr., SE  
Grand Rapids, MI  
49546  
ph: 616.575.3824  
fax: 616.575.8155  
www.ftch.com

## **WORK COMPLETED DURING THE CURRENT REPORTING PERIOD**

- Installed handrails at stairway.
- Installed hatch covers in concrete cap over existing screen house.
- Completed sand backfill/grading at new parking areas in location of the demolished water plant.
- Construction of the wooden scenic overlook deck.

## **WORK IN PROGRESS DURING THE CURRENT REPORTING PERIOD**

- Gravel grading of new parking areas in location of the demolished water plant.
- Finish grading of riprap and soil around concrete stairway.

## **WORK ANTICIPATED FOR THE NEXT REPORTING PERIOD**

- Complete gravel grading of parking lot.
- Pour concrete curbs in parking lot.
- Pour sidewalk and dumpster pad at bottom of stairway.
- Pour sidewalks (weather permitting) for beach improvements.
- Complete light pole work in new parking lot.

## **CHANGES IN SCOPE IDENTIFIED DURING THE PERIOD**

- Bulletin 1 for the South Beach Improvements project was approved by the City. A change order will be prepared.

## **ISSUES IMPACTING COST AND SCHEDULE**

- None.

## SOUTH HAVEN SWITCHGEAR BUILDING (PROJECT COMPLETE)

### Construction Cost Summary

Original Base Bid Total	\$1,322,285.97
Change Order 1 (50/50 split of costs for items missed by Compton, Inc.)	4,587.50
Change Order 2 (Transfer unused General Conditions to the water filtration plant project)	(88,769.95)
<b>Total as of March 16, 2012</b>	<b>\$1,238,103.52</b>

## SOUTH HAVEN FOUNDATION DEMOLITION (PROJECT COMPLETE)

### Construction Cost Summary

Original Base Bid Total	\$561,968.00
Change Order 1 (Cost for change in earth retention wall type)	46,267.20
Change Order 2 (Cost for asbestos removal and balancing of coal ash removal)	13,289.39
Change Order 3 (Transfer unused General Conditions to the water filtration project)	(98,312.67)
<b>Total as of March 16, 2012</b>	<b>\$523,211.92</b>

## SOUTH HAVEN WATER FILTRATION PLANT COST SUMMARY

Original Base Bid Total	\$15,029,734.29
Change Order 1 (Bulletin 3, additional traffic control, balance of crane bid)	25,216.03
Change Order 2 (Bulletins 4 and 5)	20,128.96
Change Order 3 (Transfer from previous projects)	187,082.62
Change Order No. 4 (Bulletin No. 6, paint change, and added signage)	3,367.24
Change Order 5 (Bulletin 7)	15,603.62
Change Order 6 (miscellaneous plumbing and buried concrete)	33,016.17
Change Order 7 (Bulletin 8, pipe re-routing)	45,448.32
Change Order 8 (Miscellaneous Painting/Earthwork/Framing)	11,890.44
Change Order 9 (Bulletin 9)	60,115,.99
Change Order 10 (Miscellaneous Electrical, Compton Work)	45,492.43
Change Order 11 (Miscellaneous Items)	10,639.93
Change Order 12 (Stair Replacement)	125,370.00
Change Order 13 (excess concrete removal at stairs)	3,945.00
<b>Total as of March 16, 2012</b>	<b>\$15,617,051.04</b>

## SOUTH HAVEN WATER FILTRATION PLANT DEMOLITION

### Construction Cost Summary

Original Base Bid Total	\$287,135.74
Change Order 1 (extra flowable fill)	1,350.88
<b>Total as of March 16, 2012</b>	<b>\$288,486.62</b>

### TOTAL PROJECT CONTINGENCY SUMMARY

Beginning Contingency Amount	\$767,636.00
Switch Gear Building Change Order 1	(4,587.50)
Foundation Demolition Change Order 1	(46,267.20)
Foundation Demolition Change Order 2	(13,289.39)
Water Filtration Plant Change Order 1	(25,216.03)
Water Filtration Plant Change Order 2	(20,128.96)
Water Filtration Plant Change Order 4	(3,367.24)
Water Filtration Plant Change Order 5	(15,603.62)
Water Filtration Plant Change Order 6	(33,016.17)
Water Filtration Plant Change Order 7	(45,448.32)
Water Filtration Plant Change Order 8	(11,890.44)
Water Filtration Plant Change Order 9	(60,115.99)
Water Filtration Plant Change Order 10	(45,492.43)
Balance of Plant Demolition Estimate	242,550.00
Water Filtration Plant Change Order 11	(10,639.93)
Water Filtration Plant Change Order 12	(125,370.00)
Water Filtration Change Order 13	(3,945.00)
Existing Plant Demolition Change Order 1	(1,350.00)
<b>Remaining Contingency as of March 16, 2012</b>	<b>\$544,456.90</b>

**Project Billing Summary**  
**Water Filtration Plant**  
**Application 34**

Project Name	Project Number	Original Value	Changes	Current Value	Requested To Date	Remaining Balance	Percentage Invoiced
South Haven/Switchgear	G07734DB	\$1,322,285.97	(\$84,182.45)	\$1,238,103.52	\$1,238,103.52	\$0.00	100%
South Haven/Foundation Removal	G07734FD	\$561,968.00	(\$38,756.08)	\$523,211.92	\$523,211.92	\$0.00	100%
South Haven/Water Filtration	G07734WP	\$15,029,734.29	\$587,316.75	\$15,617,051.04	\$15,508,794.68	\$108,256.36	99.3%
South Haven/Existing Plant Demo	G07734ED	\$287,135.74	\$ 1,350.88	\$288,486.62	\$231,987.00	\$56,499.62	80.8%
South Haven/Engineering	G07734CD,CA,PD	\$1,394,250.00	\$4,313.58	\$1,398,563.58	\$ 1,324,249.35	\$74,314.23	94.7%
Original Contingency		\$1,010,186.00	(\$465,729.10)	\$544,456.90		\$544,456.90	
Items not yet bid							
Allowance - Marine Boring	G07734A	\$100,000.00		\$100,000.00	\$98,086.50	\$1,913.50	98.1%
Total Project Budget		\$19,705,560.00	\$4,313.58	\$19,709,873.58	\$18,924,432.97	\$785,440.61	96.0%

## PHOTOGRAPHS



**Metal Handrails on Stairway**



**Metal Handrails on Stairway**



**Access Hatches on Intake Well Slab**



**Gravel Subgrade at South Parking Lot**

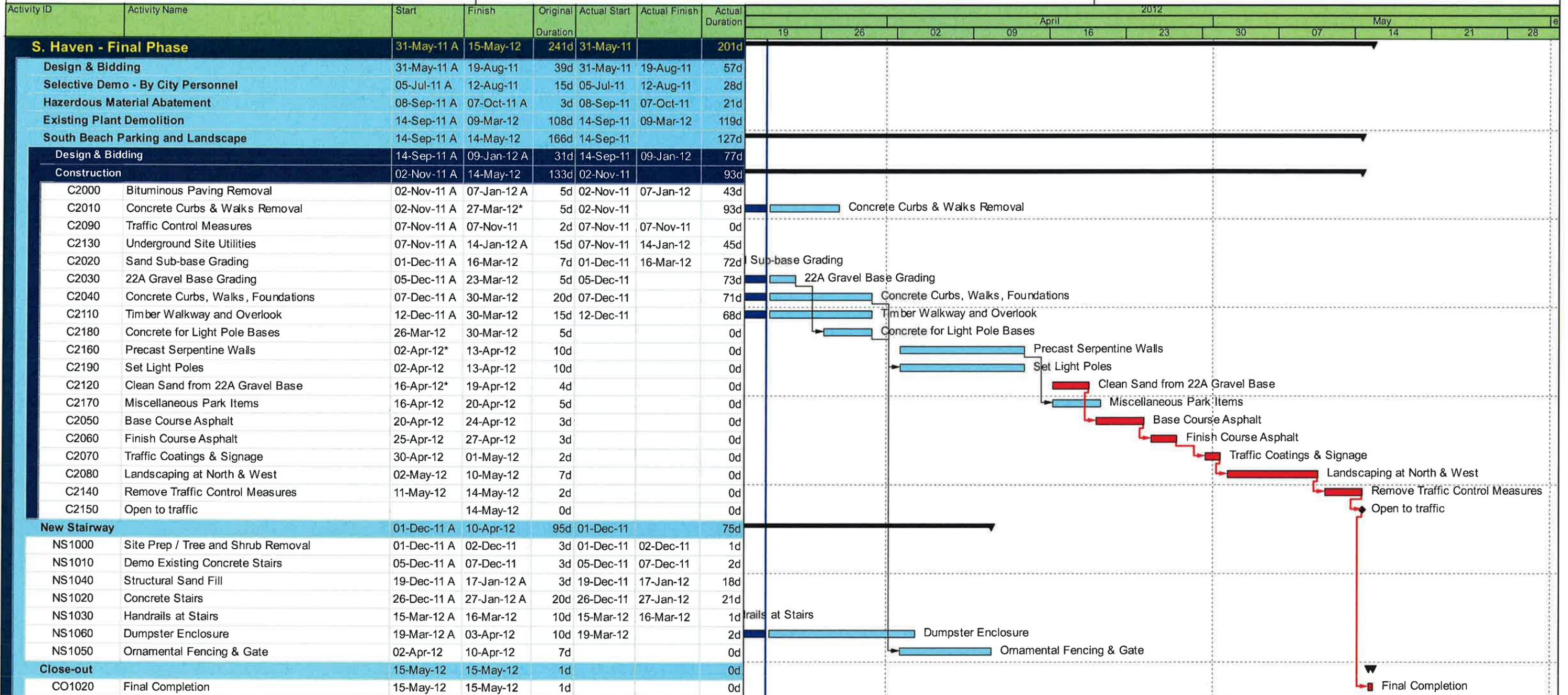


**Timber Walkway**



**Gravel Grading South of Plant**

## SCHEDULE



Date	Revision	Checked	Approved
19-Jan-12	Updated for Monthly Report on 1/19/12	X	RJO
21-Feb-12	Updated for Monthly Report on 2/21/12	X	RJO
21-Mar-12	Updated for Monthly Report on 3/21/12	X	RJO

# MEMORANDUM

DATE: March 20, 2012

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

FROM: Christopher J. Cook, PE

CC: 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.

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

This task includes further investigation of locations that did not have adequate information available in the mapping task. This task has begun and we estimate that we are approximately 40% complete. Field investigations have been completed to determine the specific locations of meters to be deployed in the field.



Upcoming work for this task will include further investigation and data collection as issues arise.

#### COMPUTER MODELING AND FLOW MONITORING

This task includes establishing 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 has progressed, we have been able to better determine the optimal locations for flow monitoring. Eleven (11) key locations have been determined for the monitoring exercise in addition to monitoring flow meters at each lift station. Seven (7) meters have been deployed at this time and we are already getting very preliminary results from them. The remaining meters are expected to be placed in three months. We are also considering the installation of six (6) additional meters at the input points from the Townships in order to assess their impact on the City's system.

Upcoming work includes installation of additional flow monitors for the Township in early April (if approved) and monitoring ongoing throughout the study. At this time, we are roughly 25% complete with this task.

#### SMOKE TESTING

No progress to date as this work will be determined following the flow monitoring.

#### SEWER TELEVISIONING

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

#### SRF PROJECT PLAN

No progress to date as this work is dependent upon all of the above tasks. However, we expect to commence with the front end work in April.



City of South Haven

## Agenda Item # 10

### 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.

### PROJECTS

- 76<sup>th</sup> Street Lift Station - Olson asked for a discussion on the Deerlick pump station. He said he thought it was supposed to be on the agenda until it was resolved. Halberstadt said we've been working on several alternate funding sources for solving the 76th Street pump station issue. Olson asked what happened to the person/company that engineered the system and whoever provided the pump system. Halberstadt said the person who engineered it is dead.

Stickland noted that the problem is that the force main is too small. Halberstadt said the township has been looking at replacing the force main, and looking at two different options. There would be some cost savings with one way, but before we can allow them to do that, we need to finish the upgrade of the Indian Grove lift station. We have packaged the whole thing together and applied for a grant. Olson said so this has just gone away.

Stein said we are working on it; we have spent a lot of time and effort in trying to fix this problem. It has not gone away. He noted that Halberstadt has put a lot of time and effort into solving this problem. Olson said he was interested in going after the people who originally designed it. Halberstadt said we could probably talk to the pump supplier. It was noted that the pump supplier was given inaccurate information in the beginning so he supplied the wrong pumps. Halberstadt said we've been working on the Indian Grove project and we'd like to dovetail the two projects, as there will be some cost savings to the township. He noted that the city is willing to let them go up Monroe Boulevard, but we're trying to get the Indian Grove project done first.

Burr asked if the force main you are talking about is on Kalamazoo. Halberstadt said there are two separate pump stations and two separate pieces of force main. One of them is 12th to M-140. Stickland said the manufacturer will do what he can, the township is looking for the cheapest way out, and the city is saying we have to fix Indian Grove first. Halberstadt reiterated that staff hasn't forgotten it.

04/22/10 – United States Department of Agriculture (USDA) grant application package, which includes the Indian Grove Lift Station project, is being assembled for signature and submittal to USDA.

8/24/10 – USDA grant application package has been submitted. Preliminary indications are that this could result in low-interest loans. Staff is working with a consultant to pursue other grant funding.

9/27/10 – The consultant (Abonmarche) has prepared the grant application and a meeting with MEDC is being scheduled. Funding options are being considered.

11/29/10 – Sewer basis of design is being prepared by staff.

10/31/11 – Abonmarche has prepared an application for S2 grant funding. The State has indicated that South Haven will be receiving \$360,000 in grant funding to perform a comprehensive sewer system analysis. The final program announcement will not be made until January 2012. Upon completion of the study in 2013, the City will be able to apply for State Revolving Fund (SRF) low interest loans from the State of Michigan. These loans will be utilized to fund the 76<sup>th</sup> St lift station project, Indian Grove Infrastructure project, and other projects identified by the S2 study. Construction of improvements in Kalamazoo Street may begin next year at the outlet end of the sewer district, pending availability of local funding. Typically, local funding is available to reconstruct 3-4 blocks of street per year. Staff and Abonmarche have begun the process of collecting existing data on the sewer system and reviewing old Sewer System Evaluation Study (SSES) reports on file. A copy of the S2 Grant Press Release and the Abonmarche Engineering Services Agreement are attached. The Engineering Services Agreement outlines the tasks to be performed and the schedule for study completion. **Monthly progress report provided under agenda item 9. A.**

## **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.
- ~~11/28/11 – Year-End Audit. Addressed under agenda item 7. F. at the February 27, 2012 meeting.~~
- **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.**



## Agenda Item # 11

### Water Meter Deposit Fees Water and Sewer Connection Fees

#### **Water Meter Deposit Fees:**

The City of South Haven Public Utilities Rules, Regulations and Policies, adopted as Resolution 07-04, require that new customers pay a non-refundable meter deposit when establishing an account, equal to the cost of the meter. Ownership of the meters remains with the City. Deposit fees for water meters were last reviewed and updated in early 2007. Current fees were established by Resolution 07-10 adopted on February 5, 2007.

Since the last adjustment, there has been a significant cost increase for meters and associated components. The primary cost increase is due to price increases in cast iron, copper, and brass products. We have held the line on these costs as long as possible; however, we are once again experiencing significant losses when providing materials to new customers.

The attached spreadsheet details the current amounts that we are paying for meters, components, and meter pits. The standard meter size for a new residential water service is  $\frac{3}{4}$  inch. The cost of supplying a  $\frac{3}{4}$  inch outside meter, fittings, and meter pit is currently \$558.36. Our current non-refundable deposit is \$300.88. We are currently experiencing a \$257.48 loss on providing this meter configuration. Details of current costs, non-refundable deposits being charged, and losses being incurred are detailed for other meter configurations on the attached spreadsheet.

#### **Water and Sewer Connection Fees:**

The City of South Haven Public Utilities Rules, Regulations and Policies, adopted as Resolution 07-04, require that new customers pay a water and sewer connection fee for installation of new water and sewer services. This fee reimburses the City for the cost of installing new water and sewer services from the public main to the property line of the applicant. The intent of the policy is to ensure that the customer requesting service is responsible for the entire cost of installing the service and that this cost is not being subsidized by existing utility customers.

The current connection fee for water service appears to have been established as part of Resolution 07-04. The current connection fee for sewer service is not stated within this resolution. The current charge was set sometime prior to January of 2007. Since the last adjustment in connection fees, there has been a significant cost increase for materials, equipment, labor, and contractual services necessary to complete a new water or sewer service connection.

The attached spreadsheets show the current and proposed costs for installing 1-inch water services and 4-inch sewer services. This is the minimum service size available for residential and small commercial connections. The exact quantities for service installation can vary depending on the relationship of the main and the property line of the applicant. The connection fees have been calculated based on a standard installation that assumes that the street paving must be cut, removed, and restored in order to install the service.

The current connection fee for water services larger than 1-inch diameter is charged on a time and material basis of the actual cost plus a 20% administrative/stock fee. The cost of larger services can vary greatly, depending on the size of service requested. It is recommended that this practice be retained, but that a deposit equal to the cost of a 1-inch diameter service is collected at the time of application. A similar practice is recommended for sewer services larger than 4-inch diameter.

**Recommendation:**

Approve a recommendation that City Council pass a resolution amending the utility policy to charge non-refundable meter deposits to new customers as follows:

<b>Accessories</b> Accessory cost includes a \$16.00 Assembly Fee	<b>Cost</b>
18" Meter Pit	\$ 195.11
24" Meter Pit	\$ 306.96
Radio Transponder*	\$ 118.00
<b>Meter Assembly</b> Meter assembly cost includes a \$16.00 Assembly Fee	<b>Cost</b>
¾" Outside Meter, Radio and Pit	\$ 558.36
1" Outside Meter, Radio and Pit	\$ 702.75
1½" Outside Meter, Radio and Pit	\$ 1,609.11
2" Outside Meter, Radio and Pit	\$ 1,972.71

\*Radio Transponder required for All Customers

All new meters are required to be placed in meter pits unless otherwise approved by the Public Works Department. If approved, the meter pit accessory price, less the \$16.00 assembly fee, will be subtracted from the meter assembly fee.

Cost does not include installation. Applicant or applicant's plumbing contractor is responsible for proper installation of meter and pit per City standards.

Approve a recommendation that City Council pass a resolution amending the utility policy to charge connection fees for new water and sewer services as follows:

Type of Connection	Cost
1" Water Service	\$ 3,050.00
Water Service larger than 1"	Time & Material*
4" Sewer Service	\$ 4,600.00
Sewer Service larger than 4"	Time & Material*

\*Water services larger than 1" diameter and sewer services larger than 4" diameter will be billed to the applicant based on the actual cost required to complete the work plus a 20% administrative fee. A deposit equal to the connection cost for the minimum size service (1" water/4" sewer) must be paid at the time of application. The remainder will be billed at the conclusion of construction.

Connection fee does not include meter deposit. Meter deposit must be paid separately from connection fee.

**Support Material:**

- Resolution 07-10
- Meter Pit & Radio Component Costs Spreadsheet, March 16, 2012
- Meter & Pit Assembly Cost Spreadsheet, March 16, 2012
- 1-inch Water Service Cost Spreadsheet, March 16, 2012
- 4-inch Sewer Service Cost Spreadsheet, March 16, 2012

CITY OF SOUTH HAVEN  
VAN BUREN AND ALLEGAN COUNTIES, MICHIGAN

RESOLUTION NO. 07-10

A RESOLUTION TO INCLUDE AN ADDENDUM TO THE  
UTILITY POLICY SETTING WATER METER FEES

Minutes of a regular meeting of the City Council of the City of South Haven, Van Buren and Allegan Counties, Michigan, held in the City Hall, 539 Phoenix Street, South Haven, Michigan 49090 on February 5, 2007 at 7:30 p.m. local time.

PRESENT: Andersen, Bradley, Fahs, Paull, Smith, Stegeman, Appleyard

ABSENT: None

The following preamble and resolution was offered by Member Paull and supported by Member Stegeman.

WHEREAS, City Council adopted the Public Utilities Rules, Regulations and Policies by Resolution 07-04 on January 15, 2007; and

WHEREAS, during their meeting on January 29, 2007, the Board of Public Utilities further reviewed water meter pricing and has recommended a pricing increase for water meter sales.

NOW, THEREFORE BE IT RESOLVED, that the water meter costs be set as follows:

<b>Accessories</b>	<b>Cost</b>
Accessories purchased individually will have an additional \$13.29 Assembly Fee	
18" Meter Pit	\$ 145.13
24" Meter Pit	\$ 233.41
30" Meter Pit	\$ 353.83
Metron Transponder	\$ 106.80
<b>Meter</b>	<b>Cost</b>
5/8" x 3/4" Inside Meter	\$ 110.18
5/8" x 3/4" Outside Meter	\$ 160.23
3/4" Inside Meter	\$ 144.03
3/4" Outside Meter	\$ 194.08
1" Inside Meter	\$ 210.93
1" Outside Meter	\$ 271.23
1 1/2" Inside Hex Meter	\$ 514.72
1 1/2" Inside El Flange Meter	\$ 539.25
1 1/2" Outside El Flange Meter	\$ 539.25
2" Inside Hex Meter	\$ 709.66
2" Inside El Flange Meter	\$ 726.11
2" Outside El Flange Meter	\$ 883.85

BE IT FURTHER RESOLVED, that this resolution shall be included as an addendum to the Public Utilities Rules, Regulations and Policies.

BE IT FURTHER RESOLVED, that this resolution shall take effect upon passage by the City Council.

RECORD OF VOTE:

Yeas: Andersen, Bradley, Fahs, Paull, Smith, Stegeman, Appleyard

Nays: None

RESOLUTION DECLARED ADOPTED.

  
Dorothy Appleyard, Mayor

  
Amanda Sleight, City Clerk

**CITY OF SOUTH HAVEN  
WATER DEPARTMENT  
METER PIT & RADIO COMPONENT COSTS**

March 16, 2012

Item	Material Cost	Assembly Fee	Admin/Stock Fee	Total Cost	Current Cost per Res 07-10	Current Loss per Item	% Increase
<b>18" Meter Pit (for ¾ " and 1" water meters)</b>							
18" HDPE Pipe, 3 feet	\$26.20		\$5.24	\$31.44			
EJIW 2890 Frame	\$59.26		\$11.85	\$71.11			
EJIW 2890 Cover	\$63.80		\$12.76	\$76.56			
<b>TOTAL</b>	<b>\$149.26</b>	<b>\$16.00</b>	<b>\$29.85</b>	<b>\$195.11</b>	<b>\$145.13</b>	<b>\$49.98</b>	34.4%
<b>24" Meter Pit (for 1½ " and 2" water meters)</b>							
24" HDPE Pipe, 3 feet	\$41.95		\$8.39	\$50.34			
EJIW 2910 Frame	\$112.42		\$22.48	\$134.90			
EJIW 2910 Cover	\$88.10		\$17.62	\$105.72			
<b>TOTAL</b>	<b>\$242.47</b>	<b>\$16.00</b>	<b>\$48.49</b>	<b>\$306.96</b>	<b>\$233.41</b>	<b>\$73.55</b>	31.5%
<b>Radio Transponder</b>							
T2 Radio	\$85.00		\$17.00	\$102.00			
<b>TOTAL</b>	<b>\$85.00</b>	<b>\$16.00</b>	<b>\$17.00</b>	<b>\$118.00</b>	<b>\$106.80</b>	<b>\$11.20</b>	10.5%

**CITY OF SOUTH HAVEN  
WATER DEPARTMENT  
METER & PIT ASSEMBLY COST**

March 16, 2012

Item	Material Cost	Assembly Fee	Admin/Stock Fee	Total Cost	Current Cost per Res 07-10	Current Loss per Item	% Increase
<b>¾ " Outside Meter</b>							
Spectrum 22 Meter, ¾"	\$135.00		\$27.00	\$162.00			
T2 Radio	\$85.00		\$17.00	\$102.00			
Angle Ball Valve 4602B-22 1x¾x¾	\$59.62		\$11.92	\$71.54			
Angle Coupling 4783S-22 1x¾	\$23.09		\$4.62	\$27.71			
18" Meter Pit	\$149.26		\$29.85	\$179.11			
<b>TOTAL</b>	<b>\$451.97</b>	<b>\$16.00</b>	<b>\$90.39</b>	<b>\$558.36</b>	<b>\$300.88</b>	<b>\$257.48</b>	85.6%
<b>1" Outside Meter</b>							
Spectrum 50 Meter, 1"	\$235.00		\$47.00	\$282.00			
T2 Radio	\$85.00		\$17.00	\$102.00			
Angle Ball Valve 4602B-22 1	\$78.82		\$15.76	\$94.58			
Angle Coupling 4783S-22 1	\$24.21		\$4.84	\$29.05			
18" Meter Pit	\$149.26		\$29.85	\$179.11			
<b>TOTAL</b>	<b>\$572.29</b>	<b>\$16.00</b>	<b>\$114.46</b>	<b>\$702.75</b>	<b>\$378.03</b>	<b>\$324.72</b>	85.9%
<b>1½ " Outside Meter</b>							
Spectrum 88 Meter, 1½"	\$700.00		\$140.00	\$840.00			
T2 Radio	\$85.00		\$17.00	\$102.00			
Angle Ball Valve 4602B-22 2	\$211.02		\$42.20	\$253.22			
Angle Coupling 4783F-22 2	\$89.10		\$17.82	\$106.92			
24" Meter Pit	\$242.47		\$48.49	\$290.96			
<b>TOTAL</b>	<b>\$1,327.59</b>	<b>\$16.00</b>	<b>\$265.52</b>	<b>\$1,609.11</b>	<b>\$646.05</b>	<b>\$963.06</b>	149.1%
<b>2" Outside Meter</b>							
Spectrum 130 Meter, 2"	\$1,003.00		\$200.60	\$1,203.60			
T2 Radio	\$85.00		\$17.00	\$102.00			
Angle Ball Valve 4602B-22 2	\$211.02		\$42.20	\$253.22			
Angle Coupling 4783F-22 2	\$89.10		\$17.82	\$106.92			
24" Meter Pit	\$242.47		\$48.49	\$290.96			
<b>TOTAL</b>	<b>\$1,630.59</b>	<b>\$16.00</b>	<b>\$326.12</b>	<b>\$1,972.71</b>	<b>\$990.65</b>	<b>\$982.06</b>	99.1%

**CITY OF SOUTH HAVEN  
WATER DEPARTMENT  
1" WATER SERVICE COST**

March 16, 2012

Item	Material Cost	Admin/Stock Fee	Total Cost	Current Cost	Current Loss per Item	% Increase
<b>Materials</b>						
Double Strap Saddle, 12" x 1"	\$64.83	\$12.97	\$77.80			
Corp Stop, 1"	\$37.17	\$7.43	\$44.60			
Curb Stop & Box, 1"	\$119.45	\$23.89	\$143.34			
Copper Pipe, 1", 45 feet	\$235.35	\$47.07	\$282.42			
Sand Backfill, 5 cyd	\$40.00	\$8.00	\$48.00			
Gravel Base, 5 cyd	\$85.00	\$17.00	\$102.00			
<b>Subtotal</b>	<b>\$581.80</b>	<b>\$116.36</b>	<b>\$698.16</b>			
<b>Equipment</b>						
Equipment Trailer, 3 hours	\$33.84	\$6.77	\$40.61			
Concrete Saw, 1 hour	\$24.00	\$4.80	\$28.80			
Trash Pump, 3 hour	\$90.00	\$18.00	\$108.00			
Tapping Machine, 1 hour	\$20.00	\$4.00	\$24.00			
Plate Compactor, 1 hour	\$10.00	\$2.00	\$12.00			
Pickup Truck, 3 hours	\$44.82	\$8.96	\$53.78			
Backhoe, 3 hours	\$156.99	\$31.40	\$188.39			
Dump Truck, 1.5 hours	\$37.08	\$7.42	\$44.50			
<b>Subtotal</b>	<b>\$416.73</b>	<b>\$83.35</b>	<b>\$500.08</b>			
<b>Labor</b>						
3 Man Crew, 3 hours	\$300.00	\$60.00	\$360.00			
Senior Equipment Operator, 1.5 hours	\$45.00	\$9.00	\$54.00			
<b>Subtotal</b>	<b>\$345.00</b>	<b>\$69.00</b>	<b>\$414.00</b>			
<b>Contractual Services for Pavement Restoration</b>						
Curb and Gutter, Conc, Det F4, 20 ft	\$400.00	\$80.00	\$480.00			
HMA, 36A, 8 ton	\$800.00	\$160.00	\$960.00			
<b>Subtotal</b>	<b>\$1,200.00</b>	<b>\$240.00</b>	<b>\$1,440.00</b>			
<b>Total</b>	<b>\$2,543.53</b>	<b>\$508.71</b>	<b>\$3,052.24</b>	<b>\$1,100.00</b>	<b>\$1,952.24</b>	177.5%

**CITY OF SOUTH HAVEN  
SEWER DEPARTMENT  
4" SEWER SERVICE COST**

March 16, 2012

Item	Material Cost	Admin/Stock Fee	Total Cost	Current Cost	Current Loss per Item	% Increase
<b>Materials</b>						
Tapping Saddle, 8" x 4"	\$22.75	\$4.55	\$27.30			
PVC Adapter, 4"	\$2.39	\$0.48	\$2.87			
PVC 45° Bend, 4"	\$5.04	\$1.01	\$6.05			
PVC 90° Cleanout Wye, 4"	\$18.92	\$3.78	\$22.70			
PVC Cleanout Cap, 4"	\$5.37	\$1.07	\$6.44			
PVC Pipe, 4", 45 feet	\$80.10	\$16.02	\$96.12			
Sand Backfill, 15 cyd	\$120.00	\$24.00	\$144.00			
Gravel Base, 10 cyd	\$170.00	\$34.00	\$204.00			
<b>Subtotal</b>	<b>\$424.57</b>	<b>\$84.91</b>	<b>\$509.48</b>			
<b>Equipment</b>						
Equipment Trailer, 6 hours	\$67.68	\$13.54	\$81.22			
Concrete Saw, 1 hour	\$24.00	\$4.80	\$28.80			
Trash Pump, 6 hour	\$180.00	\$36.00	\$216.00			
Plate Compactor, 1 hour	\$10.00	\$2.00	\$12.00			
Pickup Truck, 6 hours	\$89.64	\$17.93	\$107.57			
Backhoe, 6 hours	\$313.98	\$62.80	\$376.78			
Dump Truck, 6 hours	\$148.32	\$29.66	\$177.98			
<b>Subtotal</b>	<b>\$833.62</b>	<b>\$166.72</b>	<b>\$1,000.34</b>			
<b>Labor</b>						
4 Man Crew, 6 hours	\$780.00	\$156.00	\$936.00			
<b>Subtotal</b>	<b>\$780.00</b>	<b>\$156.00</b>	<b>\$936.00</b>			
<b>Contractual Services for Pavement Restoration</b>						
Curb and Gutter, Conc, Det F4, 30 ft	\$600.00	\$120.00	\$720.00			
HMA, 36A, 12 ton	\$1,200.00	\$240.00	\$1,440.00			
<b>Subtotal</b>	<b>\$1,800.00</b>	<b>\$360.00</b>	<b>\$2,160.00</b>			
<b>Total</b>	<b>\$3,838.19</b>	<b>\$767.64</b>	<b>\$4,605.83</b>	<b>\$1,200.00</b>	<b>\$3,405.83</b>	283.8%