

WATER, SEWER COLLECTION, AND STORMSEWER COMMITTEE MEETING AGENDA

Tuesday, October 6, 2015 7:30 A.M.
Sister Bay Fire Station — Large Meeting Room
2258 Mill Road

For additional information check: www.sisterbaywi.info

In order for everyone to hear the discussion please, turn off your cell phone. Thank you.

Call Meeting to Order

Roll Call

1	Chair – Pat Duffy		2	Scott Baker	
3	Vacant			<i>Village Administrator – Zeke Jackson</i>	
	<i>Utility Manager – Steve Jacobson</i>			<i>Utility Supervisor – Mike Schell</i>	
	<i>Utility Clerk – Martha Baker</i>				

Consider a motion to recess until conclusion of Utilities Committee – WWTP meeting

Approval of the Agenda

Approval of minutes as attached

Comments and Correspondence

Discussion Items

1. *Administrative Related*
 - a. Department of Natural Resources water system inspection report
2. *Water System Related*
 - a. Well Ordinance proposed changes per the Department of Natural Resources
3. *Collection System Related*
 - a. None
4. *Stormwater System Related*
 - a. None
5. *Extensions*
 - a. D.O.T. project status
 - b. Garot project status
6. *Matters to be placed on a future agenda or referred to a Committee, Official or Employee*

Adjournment

Public Notice

Questions regarding the nature of the agenda items or more detail on the agenda items listed above scheduled to be considered by the governmental body listed above can be directed to Zeke Jackson, Village Administrator at 920-854-4118 or at zeke.jackson@sisterbaywi.gov. It is possible that members of and possibly a quorum of members of other governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information; no action will be taken by any governmental body at the above-stated meeting other than the governmental body specifically referred to above in this notice. Upon reasonable notice, a good faith effort will be made to accommodate the needs of disabled individuals through sign language interpreters or other auxiliary aid at no cost to the individual to participate in public meetings. Due to the difficulty in finding interpreters, requests should be made as far in advance as possible preferably a minimum of 48 hours. For additional information or to request this service, contact the Sister Bay Village Administrator at 854-4118, (FAX) 854-9637, or by writing to the Village Administrator at the Village Administration Building, 2383 Maple Drive, PO Box 769, Sister Bay, WI 54234. Copies of reports and other supporting documentation are available for review at the Village Administration Building during operating hours. (8 a.m. – 4 p.m. weekdays).

I hereby certify that I have posted a copy of this agenda at the following locations:

Administration Building Library Post Office

Name

Date

**Water, Sewer Collection, and Stormsewer
Committee Meeting Minutes
Tuesday, September 1, 2015
Sister Bay Fire Station
2258 Mill Road
(Approval Pending)**

The September 1, 2015 meeting of the Utilities Committee was called to order by Committee Chair Patrick Duffy at 7:33 A.M.

Present: Committee Chair Patrick Duffy and Member Scott Baker.

Staff Members: Village Administrator Zeke Jackson, Utility Manager Steve Jacobson, Utility Supervisor Mike Schell, and Utility Clerk Martha Baker.

Also Present: James Kendrick and Sheena Zielke of the Village View Motel

Excused: Member Shane Solomon.

Item 3.a. was discussed out of order:

3. Collection System Related

a. Sewer odors – Village View Hotel

Jacobson told the committee that James Kendrick and Sheena Zielke of the Village View Motel had reported sewer odor problems at the motel after sewer flow was re-directed at the top of the hill. He said they called in a plumber and smoked their sewer lines. The plumber found and fixed a few issues with roof vents and pipes but odors persist. Jacobson called Donahue & Associates who will submit a written report saying that it is peculiar to this property and no other complaints have been made. Jacobson said he looked at man-holes in regard to this issue and found off-gassing occurring. He showed the committee a map of the sewer system and explained where hydrogen sulfide gas is reacting with cement, creating problems along nine man-holes between Fieldcrest Road and Churchill Inn. Jacobson talked with Green Bay Met who made a recommendation of a chemical called Bioxide. Data loggers have been installed in two man-holes to test levels of gas. Jacobson said he can't be sure if the Village View odor problems are related to the off-gassing at the top of the hill, but said they could be. The engineers don't know why it would affect only one property.

Village View owner James Kendrick said he has owned the motel for seventeen years and has never had an odor problem before the recent work was done on the Village sewer system. He hired a plumber who made repairs. He said gas odors were overwhelming when he replaced a toilet. He also said he smelled sewer odor when he was outside in front of his property with a wind blowing in from the direction of the Mission Grille. Village View Manager Sheena Zielke said customers of the hotel complained of sewer odor.

Jacobson proposed that we proceed with the chemical recommended by Green Bay Met at a worst case scenario cost of \$18,000 per year. He also suggested installing a few permanent data loggers to monitor gas. Jacobson stay in contact with Donahue & Associates and do everything possible to

resolve the odor problems. He also suggested, because of the physical location near the bluff, the motel owner may wish to install a vent system with a fan that runs through a charcoal filter.

Consider motion to recess until conclusion of the Utilities Committee – WWTP meeting

Motion was made by Duffy, seconded by Baker to recess the meeting of the Utilities Committee – Water, Sewer, and Stormwater until the conclusion of the Utilities Committee – WWTP meeting. Motion carried – all Ayes.

Committee recessed at 8:07 A.M.

Committee reconvened at 9:01 A.M.

Approval of the Agenda:

Motion was made by Duffy, seconded by Baker, to approve the September 1, 2015 agenda as presented. Motion carried – all Ayes.

Approval of the August 4, 2015 meeting minutes:

Motion was made by Baker, seconded by Duffy, to approve the August 4, 2015 minutes as presented. Motion carried – all Ayes.

Public Comments and Correspondence

No comments or correspondence.

Discussion Items

1. Administrative Related:

a. 2016 Capital Expense Plan

Jacobson went over the 2016 Capital Expense Plan with the committee. He recommends that the telemetry system upgrade be reevaluated when the water system is improved in 2019. The proposed system upgrade was recommended with the belief that a water tower would be added to the system. *Motion was made by Duffy, seconded by Baker, to recommend that the Finance Committee approve the Water and Collection 2016 Capital Expense Plan. Motion carried – all Ayes.*

b. 2016 Budget Draft review; Consider a motion for action if necessary

The committee was presented with the 2016 Water and Collection System Budget Draft and had a short discussion. *Motion was made by Duffy, seconded by Baker, to recommend that the Finance Committee approve the Water and Collection 2016 Budget Draft. Motion carried – all Ayes.*

2. Water System Related

a. Water Tower Impact Fee Ordinance status

The committee received a copy of the Public Hearing Notice and Proposed Water Tower Impact Fee Ordinance to be discussed at the next Village Board meeting on September 16, 2015 at 6:00 P.M.

3. Collection System Related

a. Sewer odors – Village View Hotel

Discussed earlier.

4. Stormwater System Related**a. Stormwater upgrade planning**

Jacobson said Robert E. Lee & Associates walked the area of Bluffside Drive along with other areas in the Village to assess stormwater system needs.

5. Extensions**a. D.O.T. project status**

Nothing new to report.

b. Garot project status

Jacobson reported that the Garot project is still on hold. M. Baker reported that the loan for the Garot project has been repaid to the bank but there is a line item in the 2016 budget in case the project shall continue.

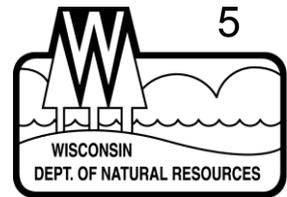
6. Matters to be placed on a future agenda or referred to a Committee, Official, or Employee:

Nothing new.

Adjournment:

A motion was made by x, seconded by x, to adjourn the September 1, 2015 meeting of the Water, Sewer Collection, and Stormsewer Utilities Committee at 9:48 A.M. Motion carried – all Ayes.

Respectfully submitted,
Martha Baker
Utility Clerk



September 21, 2015

PWS ID#: 41505101
MC-Door

Ms. Christy Sully, Clerk
225 Maple Drive
P.O. Box 769
Sister Bay, WI 54234-9420

SUBJECT: 2015 Sanitary Survey Report and Notice of Non-Compliance

Dear Ms. Sully:

The purpose of a sanitary survey is to evaluate the system's source, facilities, equipment, operation, maintenance, and management as they relate to providing safe drinking water. The sanitary survey is also an opportunity to update the Department's records, provide technical assistance, and identify potential risks that may adversely affect drinking water quality.

On September 15, 2015, Wendy Anderson conducted a sanitary survey of your water system, Sister Bay Waterworks. During the sanitary survey Steve Jacobson, Mike Schell, and Bob Lang were present. At the completion of the survey, Steve was briefed on the preliminary findings. This report outlines the final findings, discusses problems that need to be addressed, and timelines for corrective action where appropriate.

A plan for corrective action, including a work schedule must be completed by **November 5, 2015**. A proposed corrective action plan and schedule is included at the end of this report. Depending on the type of corrective action you employ, you may need to obtain prior approval and submit additional plans to the Department.

System Summary

The water supply system for the Village of Sister Bay was approved in 1972 and included two wells, a booster station and a reservoir. In the fall of 1982 the Department approved an expansion of Sister Bay's water supply into Liberty Grove Sanitary District with each entity owning their respective distribution systems. The system, with the exception of the booster pumps at Well 3 and the Liberty Grove distribution main and meters, is owned by Sister Bay. The entire system is operated by the Village of Sister Bay under a 40-year agreement that is dated April 11, 1979. This agreement was renewed in 2012.

The system is currently composed of three wells, two booster stations, one standpipe, an elevated storage tank, two pressure zones and the distribution systems. Chlorine is added as a disinfectant. The Village of Sister Bay reads all 1,318 meters (1145 in Sister Bay and 173 in Liberty Grove) and bills all water customers directly using the appropriate rate structure. The amount of water pumped varies significantly through the year as a result of the tourist season.

The system has two above-ground booster stations. One is located at Well 2, and contains two, 475 gpm pumps. In the winter, when Well 3 is not used, Wells 1 and 2 pump into the lower pressure zone and fill the standpipe. The booster pumps at Well 2 then take water from the standpipe and pump to the upper pressure

zone to fill the elevated tower. Water can then flow back into the lower zone through five pressure reducing valves. This operation allows the system to keep the water moving through the system to prevent freezing.

The other booster station is located at Well 3 and contains two, 125 gpm pumps. These are owned by Liberty Grove and since the installation of the PRV in the well house, the booster pumps are no longer routinely used.

Water Quality Monitoring and Reporting

Your system has a very good record of compliance with monitoring and reporting requirements. We appreciate your sampler's continued efforts to comply with these Safe Drinking Water Act requirements.

Required Reports, Records, and Utility Programs

The Village has an excellent record of compliance with monthly operating reports, annual CCRs, valve and hydrant maintenance programs and leak detection studies.

Certified Operator

The Operator-In-Charge for the system is Steve Jacobson for both Groundwater (G) and Distribution (D). The Village has identified three other certified operators who are certified as a 1 in G and D.

Water System Security

We continue to support your efforts in conducting daily security checks of your entire drinking water system to ensure doors are locked and windows secured.

System Summary Information

A water system summary is attached. Please review the summary for accuracy. If there are changes that need to be made, please contact me.

Capacity Development Evaluation

This sanitary survey serves as an evaluation of the capabilities of your water system. This system has been determined to have adequate technical, managerial and financial capacity to provide safe drinking water. The ability to plan for, achieve, and maintain compliance with applicable drinking water standards has been demonstrated based on the records reviewed. However, continued issues concerning your cross connection control program and private well permitting program will result in a modification to this determination to show the Village does not have adequate managerial capacity.

Significant Deficiencies

During the course of the sanitary survey, two (2) significant deficiencies were identified. Significant deficiencies indicate noncompliance with one or more Wisconsin Administrative Codes and/or represent an immediate health risk to consumers. The significant deficiencies described below have been elevated because they continue to be issues after being discussed in previous inspections. As such, the deficiencies listed below should be corrected as soon as possible.

Significant Deficiency	Compliance Due Date	Code Citation
<p>1. The Village is not implementing a comprehensive cross connection control program relative to commercial, industrial and public authority (C/I/PA) customers. This issue was included in my 2009 and 2012 sanitary survey reports. The 2012 Village response included corrections to protocols to address the violations at that time. However, when reviewing records during this inspection, I found that the corrections made in 2012 have not continued.</p> <p>a. The non-residential customer data base for cross connection inspections does not include listings or inspections for any public authority customers (WWTP, Village Hall, fire station, post office, etc.) In the 2012 annual report, there were 15 public authority customers listed. Current documents no longer identify these. Immediately update your listings to include all public authority customers and thoroughly inspect these premises as outlined in your ordinance and written plan. As public authority customers, there should be no problem with access. Send me copies of the inspection reports by November 5, 2015. See item (b), below for comments regarding inspection documentation.</p> <p>b. The overall quality of the reporting for the C/I/PA customer inspections is poor. In a sampling of documents, I found inspection reports that are unsigned, undated or the compliance portion of the report was blank. One reason for this poor reporting could be that the inspection form currently being used for C/I/PA customers is the same as that used for residential inspections. These forms are not appropriate without a lot of additional writing, since the typical fixtures in a commercial entity are not the same.</p> <p>I also have concerns regarding the quality of the actual inspections completed to date. I reviewed a number of inspection reports for facilities that I would expect to have soda dispensers and found no mention of the required ASSE 1022 on the lines feeding the carbonators. These devices are required to prevent copper poisoning – a significant health issue directly resulting from improper backflow prevention. I encourage you to have your inspector re-inspect all facilities where carbonated soda dispensers exist as this oversight may have substantial health consequences.</p> <p>Immediately begin using more complete forms and carefully document all existing cross connection devices within each customer premises.</p> <p>c. Complete cross connection inspections at the remainder of the commercial/industrial/public authority (C/I/PA) customers by December 31, 2015, and provide me with a spreadsheet containing a listing of all C/I/PA customers, the date of the last inspection, date of any necessary re-inspections, date of water shut off and whether they are currently in compliance.</p>	<p>11/05/2015</p> <p>11/05/2015</p> <p>12/31/2015</p>	<p>810.15</p>

Significant Deficiency	Compliance Due Date	Code Citation
<p>d. The Village is not implementing the processes as outlined in the written plan. The plan notes that public educational materials are being distributed at the time of the inspection and to all customers once every three years instead of performing complete inspections of the bathrooms and kitchens. Neither the proper distribution of public educational materials nor complete inspections are being performed.</p> <p>In 2012 the Village said public education materials would be sent with the CCR in the spring of 2012. This was never done. Staff are handing out a brochure during the inspection; however, the brochure is not specific to the cross connections typically found in bathrooms and kitchens. In 2015 documents, the Village said full inspections occur. This too never happened – staff are only documenting how many fixtures are in the bathrooms, not pulling toilet tank covers to verify proper fill valve installations or pulling back shower curtains to examine air gaps on tub faucets or appropriate backflow preventers on hand-held shower heads.</p> <p>i. Notify me of how you plan to proceed with residential inspections long-term (full inspections or proper distribution of public educational materials and partial inspections). If you choose to fully implement a public education program, you must immediately begin conducting complete inspections at all customers – this includes inspecting toilets, sinks and shower fixtures in bathrooms and all plumbing in kitchens. This must be done until public educational materials have been mailed out to all customers.</p> <p>ii. If you choose to continue long-term, with full (incl. bathrooms and kitchens) you must revise your written cross connection control plan and provide me with a copy by December 31, 2015.</p>	<p>11/05/2015</p> <p>12/31/2015</p>	<p>810.15</p>
<p>2. The Village is not implementing a comprehensive well abandonment/permitting program. There are a number of expired well permits and the Village is not requiring the well owner to have the well inspected by a licensed well driller or pump installer prior to issuance of a permit or renewal of a permit. This was identified as a deficiency in the Department’s 2012 sanitary survey. Following that inspection, the Village informed the Department that they would begin requiring the well inspection for all new permits and renewals in 2013. This was never done.</p> <p>a. The Village shall immediately begin requiring an inspection of the well by a licensed well driller or a licensed pump installer for all new well permits and all renewals as required in section NR 810.15, Wisconsin Administrative Code and the Village’s local ordinance. By December 31, 2017, the Village’s records should show a well inspection on file for every well.</p>	<p>12/31/2017</p>	<p>810.16</p>

Significant Deficiency	Compliance Due Date	Code Citation
<p>In order to show continued effort, the Village, on an annual basis, shall provide me with copies of all well permits issued for the previous calendar year. The first submittal shall be sent to me by December 31, 2015. Failure to either not require a well inspection or not provide the required submittal will result in additional enforcement action.</p> <p>b. The Village shall follow up with the expired well permit owners to ensure all wells are permitted by December 31, 2015. The Village shall provide me with a listing of all well owners in the Village and the date the well was permitted or abandoned. Make sure all permitted wells have a well inspection report on file.</p>	12/31/2015	

Deficiencies

During the course of the sanitary survey, one (1) deficiency was identified. Deficiencies are problems in the drinking water system that have the potential to cause serious health risks or represent long-term health risks to consumers. These deficiencies may indicate noncompliance with one or more Wisconsin Administrative Codes. Corrective action should be completed for these deficiencies as soon as possible. If there were any significant deficiencies identified above, those should undergo corrective action first.

Deficiency	Compliance Due Date	Code Citation
1. The hydrant backflow preventer used for bulk water sales is not approved for this use. Immediately discontinue the use of this backflow assembly.	11/05/2015	811.78

Recommendations

During the course of the sanitary survey, one (1) recommendation was identified. Recommendations are problems in the water system that hinder your public water system from consistently providing safe drinking water to consumers.

Recommendation
<p>The required twice a week chlorine residuals are taken at the wastewater treatment plant and recorded on your monthly reports. The levels recorded are sometimes quite low and I am concerned with the collection process. It appears that the sample is collected only after running the water for a considerable amount of time, the purpose of which is to draw in fresher water.</p> <p>The purpose of the twice a week monitoring is to ensure that you are feeding a high enough dose of chlorine to have a detectable level throughout your distribution system, without having to flush the distribution system. I suggest you collect your chlorine residuals from various locations throughout your distribution system, using hydrants if you need to. Since your average day fluctuates with the tourist season, you should move your sampling locations depending on water use and season in order to verify you have a good chlorine residual at all times. The results of this sampling may show that you need to increase your chlorine feed rate in order to address longer retention time in your distribution system during certain months. Also, in response to “stinky” water complaints, you should increase your chlorine, following the process used to verify you are in the “free chlorine” zone of the chlorination curve. I have sent additional information about this in an email.</p>

Non-Conforming Feature

During the course of the sanitary survey, three (3) non-conforming features were discovered. Non-conforming features are items that existed in a water system before a code change became effective. The following are not deficiencies, but do not conform to current standards for community systems. Though you are not required to correct these non-conforming features at this time, you must correct them when a health risk is identified, the feature causes problems with the operation of the water system or the feature is located within a reviewable project.

Non-Conforming Feature
1. Secondary containment of chemicals is not provided in accordance with s. NR 811.39(3) (d), Wis. Adm. Code. All chemical feed equipment should be located within a containment basin capable of receiving accidental spills, drainage or overflows without an uncontrolled discharge outside of the containment basin. The Village must include chemical containment when chemical piping, storage or pumps are modified in the future.
2. There is no post-chemical treatment, entry point sample tap at Well 2 or 3 as required in s. NR 811.37(5)(b), Wis. Adm. Code. The chemical injector is located just above the floor of the well house, which leaves no room for an entry point sample tap on the piping within the well house. Until modifications are made, entry point monitoring may continue to be taken from the raw water tap.
3. All line-shaft, vertical turbine pumps are to be supported by a concrete pump base which is installed to a height at least 12 inches above the pump station floor. This shall be corrected in accordance with s. NR 811.31(1) (a), Wis. Adm. Code when future work is done at Well 2.

Reminders and Other Follow-Up

1. If you modify the chlorine chemical feed pumps in the future, you will need to update your emergency chlorination plan to reflect the changes.
2. The Utility shall provide me with 48 hour prior notice of the date and time of all water storage facility inspections per s. NR 810.14(3), Wis. Adm. Code.
3. Upon completion of water storage facility inspections, a completed department report shall be submitted to me per s. NR 810.14(4), Wis. Adm. Code.
4. On an annual basis, you must conduct and document annual inspections of the screening on the vent and overflow and the seal on the inspection hatch on your towers and reservoirs in accordance with s. NR 810.14(1), Wis. Adm. Code and make repairs as necessary. Documentation can be a notation in your daily logbook, monthly report, or a receipt by a private contractor or any other method to show the date the work was completed.
5. As we discussed during the inspection, I suggest that you ask your lab to run a radium 226 analyses for all of your future well radium sampling. By doing so, gross alpha substitution will not be used to calculate your Radium (226+228) results, which may reduce future monitoring costs.
6. Please remind Liberty Grove to include the following items in future annual PSC reporting:
 - i. The answer to "What percentage of purchased water is surface water?" should be zero, not 100.

Page W-15.

- ii. Under the Hydrant and Distribution System Valves, they should be reporting the number of valves in their system, the number of valves operated and the number of hydrants operated. This was left blank in the 2014 report, page W-25.

Required Action

Please respond by **November 2, 2015**, with notification that all deficiencies have been corrected or with alternative dates for correcting these deficiencies. Failure to respond to this letter by **November 2, 2015**, may result in enforcement activities.

The next sanitary survey of your system is scheduled to take place in 2018. You will be contacted prior to the survey to schedule a date that is convenient for you.

If you have any questions, you can reach me by phone at (920) 662-5414, by email at wendy.anderson@wi.gov or by mail at the address on this letterhead.

Sincerely,



Wendy Anderson, P.E.
Public Drinking Water Engineer
Encl.

ecc: FILE
Kyle Burton, NER
Bureau of Drinking Water/Groundwater - DG/5
Steve Jacobson/Mike Schell, Sister Bay

41505101 - SISTER BAY WATERWORKS
Door County

Water System Summary Information

Population: 1000

Owner: CHRISTY SULLY
 225 MAPLE DR
 PO BOX 769
 SISTER BAY, WI 54234-9420
 CSULLY@SISTERBAY.COM

Date ERP Complete: 01/01/2000

Date ERP Last Exercised/Updated: 08/01/2012

Emergency Phone: (920) 854-2246

Emergency Fax: (920) 854-7602

Emergency E-mail: steve.jacobson@sisterbaywi.gov

Certified Operators

Name	Lic. #	Expires	Certifications
STEVEN JACOBSON	01308	04/01/2018	OIC D1, OIC G1
PATRICK JOHNSON	34625	05/01/2018	D1, G1
ROBERT LANG	32294	05/01/2017	D1, G1
MICHAEL SCHELL	25798	06/01/2017	D1, G1

Affiliations

Name	Affiliation	Start Date	Primary?	Phone
STEVEN JACOBSON	SAMPLER	01/01/1960	Y	920-854-2246
CHRISTY SULLY	PLAN_CON	02/12/2015	Y	
CHRISTY SULLY	OWNER	02/12/2015	Y	
STEVEN JACOBSON	EMERGENCY	11/20/2001	Y	920-854-2246
WENDY ANDERSON	DNR_REP	04/17/2007	Y	920-662-5414
MICHAEL C SCHELL	CONTACT	01/22/2003	Y	920-854-2246
STEVEN JACOBSON	PLAN_CON	02/01/2011	N	920-854-2246

Entry Points and Sources of Water (basic data)

ID	Name	WUWN	Status	Depth	Cased	Grouted	Water Bearing Formation	Date Constructed	Casing Size	GPM
1	WELL 1	BF698	Active	208	138	138	Dolomite	10/17/1972	10	500
2	WELL 2	BF699	Active	305	171	171	Dolomite	07/27/1972	10	500
3	WELL 3	MK444	Active	262	171	171	Dolomite	02/24/2000	12	400

Storage

ID/Location	Type	Vol. (gal)	Firm Pumping Capacity (gpm)	Height to Overflow (ft.)	Overflow Elev. (sea-level, ft.)	Aux. Power?	Last Int. Inspect Date	Painted/Mfr.
Standpipe at HWY 57	STANDPIPE	100000		48	730	No	2013	Painted (2013) / Brown Minneapolis Tank and Fabricators
Tower at Youngwirth Court	ELEVATED TANK	150000		115	826	No	10/01/2011	Painted (2011) / Caldwell

Booster Stations

ID/Location	Type	Firm Pumping Capacity (gpm)	Aux. Power?
Booster station at Well 2	ABOVE GROUND	475	Yes
Booster station for Liberty Grove - rarely used	BURIED	125	Yes

Treatment Summary Data

Source ID	Type	Description	Begin	Objective(s)	Pump Model	Cap.	Stroke %	Speed %	Sol. Tank Cap.
1	401	Gaseous Cl	01/01/1972	Disinfection	Regal	10	3.5		150
2	401	Gaseous Cl	01/01/1972	Disinfection	Regal	10	3.5		150
3	421	HypoCl	07/28/2004	Disinfection	LMI A941	14	60	26	35

System Evaluation Summary

Inspector/Reviewer	Date	Report Date	Type	Agency	Response Due	Response Recd
ANDERSON, WENDY	08/28/2012	09/04/2012	SURVEY	DNR	10/19/2012	09/17/2012
ANDERSON, WENDY	07/08/2009	07/15/2009	SURVEY	DNR	08/31/2009	07/16/2009

Bacteriological Sampling History

Year	Distrib Safe	Distrib Unsafe	Confirmed Unsafe	Missed Samples	Raw Safe	Raw Unsafe	Fecal Pos?
2015	27			0	9		N
2014	36			0	12		N
2013	37			0	12		N

Chemical Sampling History

Year	Sample Group	Source ID	Samples Taken	Missed Samples	MCL Violations
2015	DBP		1	0	0
2015	IOC	1	1	0	0
2015	IOC	2	1	0	0
2015	IOC	3	1	0	0
2014	VOC	3	1	0	0
2014	PBCU		10	0	0
2014	VOC	1	1	0	0
2014	RAD	2	1	0	0
2014	DBP		1	0	0
2014	IOC	1	1	0	0
2014	RAD	1	1	0	0
2014	RAD	3	1	0	0
2014	IOC	2	1	0	0
2014	VOC	2	1	0	0
2014	IOC	3	1	0	0

Sample Group	Last Sampled
BACTI	2015
IOC	2015
RAD	2014
PBCU	2014
NITRATE	2013
VOC	2014
SOC	2011
DBP	2015

(1) Private Well Abandonment Requirements.

- a. Any private well which is unused, unsafe or non-complying and which serves any premises required to be connected to a water main under Section 62.2 of this Chapter shall be permanently abandoned within six months after connection of the premises to the water system, unless a well operation permit has been obtained by the well owner pursuant to subsection (2) below. Abandonment shall be conducted by filling and sealing in accordance with the provisions of Chapter NR 812 Wisconsin Administrative Code. It shall be the responsibility of the landowner of any real property upon which a well is located to see to it that all wells located on the owner's property have been properly abandoned in accordance with the procedures of Wisconsin Administrative Code NR Chapter 812, regardless of whether the owner has used the well. Upon discovery of any unused or previously abandoned well, the owner shall notify the Village and comply, insofar as is practicable, with the procedures of this section. In the case of a previously abandoned well, if the owner can produce proof of compliance with state well abandonment requirements to the satisfaction of the Village, compliance with this section may be deemed satisfied. The determination shall be at the discretion of the Utility Manager upon considering the present and future possibility of ground water contamination at the well site.
- b. The owner of the well or the owner's agent who will conduct the abandonment shall notify the Village at least two business days prior to commencement of any well abandonment activities so that the Village may observe the abandonment.
- c. Wells must be abandoned by licensed well drillers and or pump installers.
- d. Wells to be abandoned shall be filled according to the procedures outlined in Wisconsin Administrative Code NR Chapter 812. The pump and piping must be removed and the well checked for obstructions before plugging. Any obstruction or liner must be removed. A well abandonment report must be submitted by the well owner to the State Department of Natural Resources on forms provided by that agency and a copy provided to the Village. The report shall be submitted immediately upon completion of the filling of the well.

(2) Permit for wells for outdoor or agricultural watering for properties served by Village Utilities.

- a. Any owner of a private well which is required to be permanently abandoned pursuant to subsection (1)(a) above shall apply to the Village for permission to maintain the well in good operating condition for the sole purpose of providing water for filling swimming pools, lawn or garden watering or other similar agricultural purpose, provided that the well continues to pass all tests required for private wells and the owner shall agree to pay the cost of abandonment when the well shall be permanently abandoned.
- b. Every owner of a private well which was in existence on January 1, 1990, that serves premises also served by the municipal water system and who wants to continue to use the well shall obtain a permit for the use of the well from the Village within 90 days from the effective date of this section § 62.6(d)(2) determined to be May 14, 1991. Drilling new private wells that will be used under the circumstances described in this subsection may not commence until a permit for the excavation of the private well has been granted in accordance with the terms of this section.
- c. Applications for a permit for the excavation or use of a private well under this section shall be made in writing by the owner or owners of the well to the Village on forms provided by the Village. A \$50 processing fee shall accompany any private well excavation or renewal permit application. A permit shall be granted to a well owner to operate a well for a period not to exceed five years if the requirements of this subsection are met. Failure to obtain an initial or renewal permit will result in a late permit fee of \$100 plus the penalties in section (6). Permit applications shall be made and submitted on forms provided by the Village. Permits and permit renewals will be granted under this section only for wells and pump installations where:
 - (1) No physical connection shall exist between the piping of the public water system and the private well.

- (a) (2) Bacteriologically safe water is evidenced by at least ~~one two~~ samples, ~~taken a minimum of two weeks apart.~~ (3) There are no known exceedances of the preventive action limits (PALs) set forth in Chapter NR 140, Wisconsin Administrative Code.
- (4) (4) The well and pump installation shall meet the requirements of Wisconsin Administrative Code NR Chapter 812 in effect at the time of the well construction and pump installation. A well constructor's report shall be on file with the State Department of Natural Resources or Certification of the Acceptability of the well shall have been granted by the private water supply section of the State Department of Natural Resources. ~~The well and pump system shall be evaluated by a licensed well driller or pump installer and certified to comply with ch. NR 812 sub ch.IV, every 10 years afterward. Written documentation of the well and pump inspection indicating compliance with DNR Wis. Adm. Code Ch. NR 812 requirements using standardized forms provided by the DNR.~~
- (5) The proposed use of the well can be justified as necessary in addition to water provided by the public water system.
- (3) Permit for existing wells for properties not served by Village Utilities.
- a. Every owner of a private well, which was in existence on June 1, 2009, in the Village that serves their property, shall obtain a permit for the use of the well from the Village within 90 days from the effective date of this section.
 - b. A section (3)(a) well permit will be for a period of five years upon issuance. The initial permit shall cost \$50. The subsequent renewal permit processing fee shall be \$50. Failure to obtain an initial or renewal permit will result in a late permit fee of \$100 plus the penalties in section (6). Permit applications shall be made and submitted on forms provided by the Village.
 - c. The well owner or operator shall every five years, on a schedule established by the Village, provide the Village with written evidence that the well produces bacteriologically safe water as evidenced by ~~two one~~ safe water samples ~~taken a minimum of one week apart.~~ The report shall be submitted during the period June 1 — September 1 of each year. If the well does not meet the safe water requirements or is unsafe the owner must either repair or replace the well. However, prior to undertaking any repairs or replacement of the well the property owner must meet with the Utility Manager to determine if the proposed repairs or replacement would solve the contamination problem or if some other course of action is more practical. In lieu of repairing or replacing the well, the property owner may request the Village extend municipal water to serve that property.
- (4) Permit for new wells for properties not served by Village Utilities.
- a. After January 1, 2009, the drilling of new private wells that will be used under the circumstances described in this section may not commence until a permit for the excavation of the private well has been granted in accordance with the terms of this section.
 - b. A section (4)(a) well permit will be for a period of five years upon issuance and the initial permit shall cost \$50. Failure to obtain a permit will result in a late permit fee of \$100 plus the penalties in section (6). Permit applications shall be made and submitted on forms provided by the Village.
 - c. The well owner or operator shall every five years, on a schedule established by the Village, provide the Village with written evidence that the well produces bacteriologically safe water as evidenced by ~~two one~~ safe water samples ~~taken a minimum of one week apart.~~ The report shall be submitted during the period June 1 — September 1 of each year. If the well does not meet the safe water requirements or is unsafe the owner must either repair or replace the well. However, prior to undertaking any repairs or replacement of the well the property owner must meet with the Utility Manager to determine if the proposed repairs or replacement would solve

the contamination problem or if some other course of action is more practical. In lieu of repairing or replacing the well, the property owner may request the Village extend municipal water to serve that property.

- (5) Additional conditions of well permit. The right to construct, install and maintain a well as authorized by permit under this section shall be expressly conditioned upon the owners and successors in interest complying with the following:
- a. The owner shall permit the Village access to the well for inspection and testing at any time during normal working hours. If entry is refused, the well permit is revoked and the owner shall proceed with abandonment as specified above. On request, the owner, lessee or occupant of any property so served shall furnish to the inspector any pertinent information regarding the piping system on the property.
 - b. No repair or modification of any well may be performed unless done by a properly licensed individual. At least one business day notice to the Village prior to undertaking the repairs is required so the work may be inspected. Any and all plumbing code permits as required shall also be obtained prior to undertaking any work.
 - c. The Village shall have the right to sample the water after completion of any repairs or modifications. The sampling shall be at the owner's cost and may either be done by the Village or by the owner at the Village's direction.
 - d. The Village shall have the right to randomly test or to direct the owner to test the well not more than two times in any six-month period. The Village may require additional testing if there is reason to believe some contamination may be present or that the results of previous tests may be invalid. The Village at its option may require testing for contaminants to include microbiological, radioactive, inorganic, synthetic organic, pesticides, herbicides and volatile organic substances. The Utility Manager shall report the results of testing and the resulting remedial action to the DNR on an annual basis. If the test results suggest that a severe or area wide problem exists the Utility Manager shall notify the DNR immediately.
 - e. The cost of any testing and sampling as provided in this section shall be paid by the owner upon invoice by the Village.
 - f. A permit issued in accordance with the provisions of this section shall be revoked by the Utility Manager upon notice to the permittee that any of the following have occurred:
 1. The owner of the well has refused access to a well for testing or has failed to follow a direction of order of the Village in regard to testing or sampling.
 2. The owner of any well has neglected to pay for any tests authorized with 30 days of billing or invoice.
 3. Any test results demonstrate well contamination and do not meet reasonable health standards or are in violation of any state or municipal ordinance dealing with well operation.
 4. The parties aggrieved by permit revocation may appeal the initial decision of the Utility Manager to the Village Board by filing a written petition for review with the Village clerk-treasurer.