



merrill

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CITY OF MERRILL

Water & Sewage Utility

2401 River Street • Merrill, Wisconsin • 54452

Phone: 715.536.6561 • Fax: 715.539.2668

NOTICE

RE: Water and Sewage Committee Meeting to be held **Wednesday, May 28, 2014 at 5:00 p.m.** in the basement conference room of City Hall.

Voting members: Alderperson Rob Norton, Alderperson Kandy Peterson, and Alderperson John Burgener

The following items will be on the agenda:

1. Review & approval of vouchers.
2. Review & approval of 2013 CMAR (Compliance Maintenance Annual Report).
3. Discussion & recommendation of the possible purchase of an In-Line Analyzer.
4. Operations Report.
5. Public Comment.
6. Next meeting.
7. Adjournment.

Reviewed by,

Rob Norton
Committee Chairperson

The Merrill City Hall is accessible to the physically disadvantaged. If special accommodations are needed, please contact the Merrill City Hall at 536-6561.

PACKET: 05533 water AP may 2014

VENDOR SET: 01

BANK : 4 UTILITY A/P

V. NO	NAME / I.D.	DESC	CHECK TYPE	CHECK DATE	DISCOUNT	AMOUNT	CHECK NO#	CHECK AMOUNT
003108	AIRGAS USA, LLC I-9917882211	AIRGAS USA, LLC	R	5/14/2014		20.29CR	141516	20.29
003126	B & M TECHNICAL SERVICES INC I-043014	B & M TECHNICAL SERVICES INC	R	5/14/2014		963.90CR	141517	963.90
003513	BATTERIES PLUS I-069-107628-01	BATTERIES PLUS	R	5/14/2014		132.46CR	141518	132.46
001521	BAY TOWEL, INC. I-043014	BAY TOWEL, INC.	R	5/14/2014		334.40CR	141519	334.40
002411	BECHER-HOPPE ASSOC INC I-17792	BECHER-HOPPE ASSOC INC	R	5/14/2014		220.00CR	141520	220.00
002809	CARQUEST OF MERRILL I-10846-141668	CARQUEST OF MERRILL	R	5/14/2014		3.40CR	141521	3.40
002265	CHAD SCHMIDT EXCAVATING LLC I-1741	CHAD SCHMIDT EXCAVATING LLC	R	5/14/2014		715.00CR	141522	715.00
000215	CHEMTRADE CHEMICALS US LLC I-90641116	CHEMTRADE CHEMICALS US LLC	R	5/14/2014		5,206.80CR	141523	5,206.80
000381	CITY OF MERRILL I-SEW. REPLACE. ACCT	CITY OF MERRILL	R	5/14/2014		15,000.00CR	141524	15,000.00
000209	ENERGENECS I-0028204-IN	ENERGENECS	R	5/14/2014		1,356.92CR	141525	1,356.92
003239	ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE INC I-QUOTE25621683	ENVIRONMENTAL SYSTEMS RESEARCH	R	5/14/2014		3,378.08CR	141526	3,378.08
000212	FASTENAL COMPANY I-043014	FASTENAL COMPANY	R	5/14/2014		560.66CR	141527	560.66
000632	FERGUSON ENTERPRISES #331 I-0146988	FERGUSON ENTERPRISES #331	R	5/14/2014		1,058.59CR	141528	1,058.59
002661	FRONTIER I-WTR WHSE ALARM	FRONTIER	R	5/14/2014		130.94CR	141529	130.94

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VENDOR	NAME / I.D.	DESC	CHECK TYPE	CHECK DATE	DISCOUNT	AMOUNT	CHECK NO#	CHECK AMOUNT
000224	HYDRITE CHEMICAL CO I-01690485	HYDRITE CHEMICAL CO	R	5/14/2014		1,902.00CR	141530	1,902.00
001017	JANSSEN HEATING & COOLING I-18704	JANSSEN HEATING & COOLING	R	5/14/2014		102.95CR	141531	102.95
000140	KRUEGER PLUMBING L. L. C. I-043014	KRUEGER PLUMBING L. L. C.	R	5/14/2014		2,927.70CR	141532	2,927.70
000751	L W ALLEN, INC I-096583	L W ALLEN, INC	R	5/14/2014		14,076.00CR	141533	14,076.00
000313	LINCOLN CO TREASURER'S OFFICE I-9186	LINCOLN CO TREASURER'S OFFICE	R	5/14/2014		218.34CR	141534	218.34
000317	MARTELLE WATER TREATMENT I-12092	MARTELLE WATER TREATMENT	R	5/14/2014		4,965.70CR	141535	4,965.70
000041	MERRILL ACE HARDWARE I-043014	MERRILL ACE HARDWARE	R	5/14/2014		186.33CR	141536	186.33
000739	MERRILL GLASS I-10545	MERRILL GLASS	R	5/14/2014		16.00CR	141537	16.00
000328	MERRILL WATER UTILITY I-043014	MERRILL WATER UTILITY	R	5/14/2014		207.09CR	141538	207.09
000911	MOTION INDUSTRIES, INC. I-043014	MOTION INDUSTRIES, INC.	R	5/14/2014		126.20CR	141539	126.20
001169	MUNICIPAL ENVIRONMENTAL GROUP - WASTEWATER I-DUES - WW	MUNICIPAL ENVIRONMENTAL GROUP	R	5/14/2014		1,059.52CR	141540	1,059.52
002452	NELSON'S POWERHOUSE I-9954	NELSON'S POWERHOUSE	R	5/14/2014		21.06CR	141541	21.06
000336	NIENOW ELECTRIC, INC I-043014	NIENOW ELECTRIC, INC	R	5/14/2014		1,163.20CR	141542	1,163.20
000337	NORTH CENTRAL LABORATORIES I-043014	NORTH CENTRAL LABORATORIES	R	5/14/2014		1,638.61CR	141543	1,638.61

PACKET: 05533 water AP may 2014

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CHECK NO	CHECKOR NAME / I.D.	DESC	CHECK TYPE	CHECK DATE	DISCOUNT	CHECK AMOUNT	CHECK NO#	CHECK AMOUNT
001891	NORTHERN LAKE SERVICE INC I-253868	NORTHERN LAKE SERVICE INC	R	5/14/2014		281.10CR	141544	281.10
003520	NOVA ENTERPRISES INC I-42973	NOVA ENTERPRISES INC	R	5/14/2014		1,550.00CR	141545	1,550.00
000351	OFFICE OF STATE TREASURER I-REVENUE BD. REDE	OFFICE OF STATE TREASURER	R	5/14/2014		8,750.00CR	141546	8,750.00
001392	PACE ANALYTICAL SERVICES INC I-043014	PACE ANALYTICAL SERVICES INC	R	5/14/2014		394.00CR	141547	394.00
000824	PER MAR SECURITY SERVICES I-53189	PER MAR SECURITY SERVICES	R	5/14/2014		1,002.00CR	141548	1,002.00
001201	SENSUS METERING SYSTEMS I-ZA15000109	SENSUS METERING SYSTEMS	R	5/14/2014		1,524.60CR	141549	1,524.60
001811	SGS ENVIRONMENTAL CONTRACTING LLC I-043014	SGS ENVIRONMENTAL CONTRACTING	R	5/14/2014		2,697.50CR	141550	2,697.50
000580	STAINLESS SPECIALISTS I-26097	STAINLESS SPECIALISTS	R	5/14/2014		422.04CR	141551	422.04
000266	TRANTOW DO IT CENTER I-434241	TRANTOW DO IT CENTER	R	5/14/2014		22.94CR	141552	22.94
000278	TRIDENT SUPPLY I-F4345	TRIDENT SUPPLY	R	5/14/2014		183.50CR	141553	183.50
000578	USA BLUE BOOK I-307378	USA BLUE BOOK	R	5/14/2014		9.48CR	141554	9.48
000587	WI STATE LAB OF HYGIENE I-6005411-357172	WI STATE LAB OF HYGIENE	R	5/14/2014		20.00CR	141555	20.00
000656	WISCONSIN PUBLIC SERVICE I-043014	WISCONSIN PUBLIC SERVICE	R	5/14/2014		13,474.40CR	141556	13,474.40

* * T O T A L S * *				
	NO#	DISCOUNTS	CHECK AMT	TOTAL APPLIED
REGULAR CHECKS:	41	0.00	88,023.70	88,023.70
HANDWRITTEN CHECKS:	0	0.00	0.00	0.00
PRE-WRITE CHECKS:	0	0.00	0.00	0.00
DRAFTS:	0	0.00	0.00	0.00
VOID CHECKS:	0	0.00	0.00	0.00
NON CHECKS:	0	0.00	0.00	0.00
CORRECTIONS:	0	0.00	0.00	0.00
REGISTER TOTALS:	41	0.00	88,023.70	88,023.70

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JR	NAME / I.D.	DESC	CHECK TYPE	CHECK DATE	DISCOUNT	AMOUNT	CHECK NO#	CHECK AMOUNT
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** POSTING PERIOD RECAP **

FUND	PERIOD	AMOUNT
62	5/2014	41,928.47CR
63	5/2014	46,095.23CR
=====		
ALL		88,023.70CR

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/29/2014

Reporting Year: 2013

Influent Flow and Loading

Questions								
1.	Monthly average flows and (C)BOD loadings.							
	InFluent No.701	Influent Monthly Average Flow, MGD	X	Influent Monthly Average (C)BOD Concentration on mg.l	X	8.34	=	Influent Monthly Average(C) BOD Loading, pounds/day
	January	0.8529	X	316	X	8.34	=	2251
	February	0.8223	X	295	X	8.34	=	2025
	March	0.9074	X	317	X	8.34	=	2402
	April	1.222	X	209	X	8.34	=	2125
	May	1.290	X	177	X	8.34	=	1905
	June	1.595	X	171	X	8.34	=	2280
	July	1.232	X	196	X	8.34	=	2010
	August	0.9819	X	195	X	8.34	=	1601
	September	0.9539	X	206	X	8.34	=	1642
	October	1.006	X	195	X	8.34	=	1632
	November	0.9643	X	193	X	8.34	=	1555
	December	0.9768	X	211	X	8.34	=	1721
2.	Maximum month design flow and design (C)BOD loading.							
		Design	X	%	=	% of Design		
	Max Month Design Flow, MGD	3.86	x	90	=	3.474		
			x	100	=	3.86		
	Design (C)BOD, lbs./day	2800	x	90	=	2520		
			x	100	=	2800		

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/29/2014

Reporting Year: 2013

Influent Flow and Loading (Continued)

3.	Number of times the flow and (C)BOD exceeded 90% or 100% of design, points earned, and score:				
	Months of Influent Flow	Number of times flow was greater than 90% of design	Number of times flow was greater than 100% of design	Number of times (C)BOD was greater than 90% of design	Number of times (C)BOD was greater than 100% of design
	January	1	0	0	0
	February	1	0	0	0
	March	1	0	0	0
	April	1	0	0	0
	May	1	0	0	0
	June	1	0	0	0
	July	1	0	0	0
	August	1	0	0	0
	September	1	0	0	0
	October	1	0	0	0
	November	1	0	0	0
	December	1	0	0	0
	Points per each exceedance	2	1	3	2
	Exceedances	0	0	0	0
	Points	0	0	0	0
	Total Number of Points				0
4.	Was the influent flow meter calibrated in the last year?				
	<input checked="" type="radio"/> Yes Enter last calibration date, MM/DD/YYYY 05/21/2013				
	<input type="radio"/> No -explain <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>				
5.	Sewer Use Ordinance				
	<p>5.1 Did your community have a sewer use ordinance that limited or prohibited the discharge of excessive conventional pollutants ((C)BOD, SS, or pH) or toxic substances to the sewer from industries, commercial users, hauled waste, or residences?</p> <p> <input checked="" type="radio"/> Yes <input type="radio"/> No </p> <p>If No, please describe:</p>				

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/29/2014

Reporting Year: 2013

Influent Flow and Loading (Continued)

5.2 Was it necessary to enforce?

- Yes
 No

If Yes, please describe:

6. Septage Receiving

6.1 Did you have requests to receive septage at your facility?

Septic Tanks	Holding Tanks	Grease Traps
<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No

6.2 Did you receive septage at your facility? If yes, indicate volume in gallons

Septic Tanks	Holding Tanks	Grease Traps
<input type="radio"/> Yes <input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
gal	8175900 gal	gal

6.2.1 If yes to any of the above, please explain if plant performance is affected when receiving any of these wastes

plant performance not affected by these wastes

7. Pretreatment

7.1 Did your facility experience operational problems, permit violations, biosolids quality concerns or hazardous situations in the sewer system or treatment plant that were attributable to commercial or industrial discharges in the last year?

- Yes
 No

If Yes, describe the situation and your community's response:

7.2 Did your facility accept hauled industrial wastes, landfill leachate, etc?

- Yes
 No

If yes, describe the types of wastes received and any procedures or other restrictions that were in place to protect the plant from the discharge of hauled industrial wastes.

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/29/2014

Reporting Year: 2013

Influent Flow and Loading (Continued)

	recieved 516000 gallons of leachate from the abandoned Ward Paper Mill Landfill and 2677567 gallons of leachate from the Lincoln Co. Landfill.
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Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of	Last Updated: 4/29/2014	Reporting Year: 2013
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Effluent Quality and Plant Performance ((C)BOD)

Questions							
1.	Monthly average effluent values, exceedances, and points for (C)BOD:						
	Outfall No.001	Monthly Average C(BOD) Limit (mg/L)	90% of Permit Limit >10 (mg/L)*	Effluent Monthly Average C(BOD) (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance	90% Permit Limit Exceedance
	January	25	22.5	12	1	0	0
	February	25	22.5	18	1	0	0
	March	25	22.5	26	1	1	1
	April	25	22.5	12	1	0	0
	May	25	22.5	9	1	0	0
	June	25	22.5	7	1	0	0
	July	25	22.5	7	1	0	0
	August	25	22.5	6	1	0	0
	September	25	22.5	7	1	0	0
	October	25	22.5	5	1	0	0
	November	25	22.5	7	1	0	0
	December	25	22.5	8	1	0	0
* Equals limit if limit is <=10							
Months of Discharge/yr					12		
Points per each exceedance with 12 months of discharge:						7	3
Exceedances						1	1
Points						7	3
Total Number of Points							10
<p>NOTE: For systems that discharge intermittently to waters of the state, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge. Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is $12/6 = 2.0$</p>							
2.	If any violations occurred, what action was taken to regain compliance?						

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/29/2014

Reporting Year: 2013

Effluent Quality and Plant Performance ((C)BOD) (Continued)

	<p>Informed Steve Ohm (DNR area engineer) on April 8th after all test for the month of March were completed, that we were over our final monthly limits for both effluent cBOD and for Final Effluent total phosphorus. Terry explained to him that we had an unexpected jump in our effluent cBOD and that we tried to correct the problem by first decreasing return rates to possibly remove filamentous bacteria. We then tried raising our DO in our mixed liquor to see if this would help treatment. Next we chlorinated our return to remove the filamentous; this increased our TSS and as a result increased our phosphorus levels. Finally we seeded the plant with RAS from Marathon City Treatment plant. Our plant is now under control with Effluent TSS & cBOD now in the single digit range. The probable causes could come running our plant at lower DO's to help achieve lower DO's in our anoxic zone in our BPR pilot along with problems resulting from not being able to run our belt press while waiting for parts and our secondary digester overflowing to the head of the plant. We are now running plant at higher DOs and the belt press is running normally again.</p>
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3. Was the effluent flow meter calibrated in the last year?

	<p> <input type="radio"/> Yes - enter last calibration date, MM/DD/YYYY: <input style="width: 100px; height: 20px;" type="text"/> </p> <p> <input checked="" type="radio"/> No - explain: <input style="width: 700px; height: 20px;" type="text" value="Do not have effluent flow meter"/> </p>
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4. What problems, if any, were experienced over the last year that threatened treatment?

	<input style="width: 800px; height: 20px;" type="text"/>
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5. Other Monitoring and Limits

	<p>5.1 At any time in the past year was there an exceedance of a permit limit for any other pollutants such as metals, pH, residual chlorine, or fecal coliform?</p> <p> <input type="radio"/> Yes <input checked="" type="radio"/> No </p> <p>If Yes, please describe:</p> <input style="width: 700px; height: 20px;" type="text"/>
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	<p>5.2 At any time in the past year was there an effluent acute or chronic whole effluent toxicity (WET) test?</p> <p> <input type="radio"/> Yes </p>
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COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/29/2014

Reporting Year: 2013

Effluent Quality and Plant Performance ((C)BOD) (Continued)

	<p><input checked="" type="radio"/> No</p> <p>If Yes, please describe:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
	<p>5.3If the biomonitoring (WET) test did not pass, were steps taken to identify and/or reduce source(s) of toxicity?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input checked="" type="radio"/> NA</p> <p>Please explain unless not applicable:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>

Total Points Generated	10
Score (100 - Total Points Generated)	90
Section Grade	B

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/29/2014

Reporting Year: 2013

Effluent Quality and Plant Performance (Total Suspended Solids)

Questions							
1.	Monthly average effluent values, exceedances, and points for TSS:						
	Outfall No.001	Monthly Average TSS Limit (mg/L)	90% of Permit Limit >10 (mg/L)*	Effluent Monthly Average TSS (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance	90% Permit Limit Exceedance
	January	30	27	19	1	0	0
	February	30	27	15	1	0	0
	March	30	27	19	1	0	0
	April	30	27	10	1	0	0
	May	30	27	8	1	0	0
	June	30	27	5	1	0	0
	July	30	27	4	1	0	0
	August	30	27	4	1	0	0
	September	30	27	6	1	0	0
	October	30	27	8	1	0	0
	November	30	27	11	1	0	0
	December	30	27	11	1	0	0
	* Equals limit if limit is <=10						
	Months of Discharge/yr				12		
	Points per each exceedance with 12 months of discharge:					7	3
	Exceedances					0	0
	Points					0	0
	Total Number of Points						0
	<p>NOTE: For systems that discharge intermittently to waters of the state, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge. Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is 12/6 = 2.0</p>						
2.	If any violations occurred, what action was taken to regain compliance?						

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/30/2014

Reporting Year: 2013

Effluent Quality and Plant Performance (Phosphorus)

Questions					
1.	Monthly average effluent values, exceedances, and points for Phosphorus:				
	Outfall No.001	Monthly Average phosphorus Limit (mg/L)	Effluent Monthly Average phosphorus (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance
	January	1	0.8	1	0
	February	1	0.9	1	0
	March	1	1.2	1	1
	April	1	0.7	1	0
	May	1	1.0	1	0
	June	1	0.9	1	0
	July	1	0.8	1	0
	August	1	0.8	1	0
	September	1	1.3	1	1
	October	1	0.9	1	0
	November	1	0.6	1	0
	December	1	0.5	1	0
	Months of Discharge/yr			12	
	Points per each exceedance with 12 months of discharge:				10
	Exceedances				2
	Total Number of Points				20
	<p>NOTE: For systems that discharge intermittently to waters of the state, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge. Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is $12/6 = 2.0$</p>				
2.	If any violations occurred, what action was taken to regain compliance?				
	<p>(March 2013) Informed Steve Ohm (DNR area engineer) on April 8th after all test for the month of March were completed, that we were over our final monthly limits for both effluent cBOD and for Final Effluent total phosphorus. Terry explained to him that we had an unexpected jump in our effluent cBOD and that we tried to correct the problem by first decreasing return rates to possibly remove filamentous bacteria. We then tried raising our DO in our mixed liquor to see if this would help treatment. Next we chlorinated our return to remove the filamentous; this increased our TSS and as a result increased our phosphorus levels. Finally we seeded the plant with RAS from Marathon City Treatment plant. Our plant is now under control with Effluent TSS & cBOD now in the single digit range. The probable causes could come running our plant at lower DO's to help achieve lower DO's in our anoxic zone in our BPR pilot along with problems resulting from not being able to run our belt press while waiting for parts and our secondary digester overflowing to the head of the plant. We are now running plant at higher DOs and the belt press is running normally again.</p> <p>(September 2013) High phosphorus results in the middle of the month due to loss of our biological phosphorus removal that had started working and at the same time our spec. went out and had to be sent in for repairs and we were unable to check our orthophosphate levels. The spec has been repaired and plans have been made for the event it ever goes out again. The phosphorus levels have been back into control and the biological phosphorus removal has started to work at a low level.</p>				

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/30/2014

Reporting Year: 2013

Effluent Quality and Plant Performance (Phosphorus) (Continued)

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/30/2014

Reporting Year: 2013

Effluent Quality and Plant Performance (Phosphorus) (Continued)

Total Points Generated	20
Score (100 - Total Points Generated)	80
Section Grade	C

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/29/2014

Reporting Year: 2013

Biosolids Quality and Management

	Questions	Points						
1.	<p>Biosolids Use/Disposal:</p> <p>1.1 How did you use or dispose of your biosolids?(Check all that apply)</p> <p> <input checked="" type="checkbox"/> Land Applied Under Your Permit <input type="checkbox"/> Publicly Distributed Exceptional Quality Biosolids <input type="checkbox"/> Hauled to Another Permitted Facility <input type="checkbox"/> Landfilled <input type="checkbox"/> Incinerated <input type="checkbox"/> Other </p> <p>NOTE:If you do not remove biosolids from your system annually, please describe your system type such as lagoons, reed beds, recirculating sand filters, etc, and if biosolids were land applied last year, please also check top box above.</p> <p>1.1.1 If you checked Other, Please describe: <input style="width: 400px; height: 20px;" type="text"/></p>							
2.	<p>Land Application Site:</p> <table border="1" style="width: 100%; margin: 10px 0;"> <tr> <th colspan="2" style="text-align: left;">Last Year's Approved and Active Land Application Sites</th> </tr> <tr> <td style="width: 50%;">2.1.1 How many acres did you have?</td> <td style="width: 50%;">2.1.2 How many acres did you use?</td> </tr> <tr> <td>371 acres</td> <td>97.3 acres</td> </tr> </table> <p>2.2 If you did not have enough acres for your land application needs, what action was taken? <input style="width: 400px; height: 20px;" type="text"/></p>	Last Year's Approved and Active Land Application Sites		2.1.1 How many acres did you have?	2.1.2 How many acres did you use?	371 acres	97.3 acres	
Last Year's Approved and Active Land Application Sites								
2.1.1 How many acres did you have?	2.1.2 How many acres did you use?							
371 acres	97.3 acres							
	<p>2.3 Did you overapply nitrogen on any of your approved land application sites you used last year?</p> <p> <input type="radio"/> Yes(30 points) <input checked="" type="radio"/> No </p>	0						
	<p>2.4 Have all the sites you used last year for land application been soil tested in the previous 4 years?</p> <p> <input checked="" type="radio"/> Yes <input type="radio"/> No (10 points) <input type="radio"/> N/A </p>	0						
3.	<p>Biosolids Metals</p> <p>Number of biosolids outfalls in your WPDES permit = 1</p> <p>3.1 For each outfall tested, verify the biosolids metal quality values for your facility during the last calendar year</p>							
BIOSOLIDS METALS CHARACTERISTICS								

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

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Biosolids Quality and Management (Continued)

Outfall:002 - ANAEROBIC SLUDGE

Parameter	80% of Limit	H.Q. Limit	Ceiling Limit	mg/kg on a dry weight basis												Times Exceeded			
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	80% Value	High Quality	Ceiling	
arsenic		41	75			3.2												0	0
cadmium		39	85			1.2												0	0
copper		1500	4300			480												0	0
lead		300	840			22												0	0
mercury		17	57			2.1												0	0
molybdenum	60		75			9.2											0		0
nickel	336		420			24											0		0
selenium	80		100			7.3											0		0
zinc		2800	7500			1100												0	0

3.1.1 Number of times any of the metals exceeded the high quality limits OR 80% of the limit for molybdenum, nickel or selenium = 0

0

Exceedance Points		
<input checked="" type="radio"/>	0	0 Points
<input type="radio"/>	1-2	10 Points
<input type="radio"/>	> 2	15 Points

3.1.2 If you exceeded the high quality limits, did you cumulatively track the metals loadings at each land application site? (check applicable box)

0

- Yes
- No (10 points)
- NA. Did not exceed limits or no HQ limit applies (0 points)
- NA. Did not land apply biosolids until limit was met(0 points)

3.1.3 Number of times any of the metals exceeded the ceiling limits = 0

0

Exceedance Points		
<input checked="" type="radio"/>	0	0 Points
<input type="radio"/>	1	10 Points
<input type="radio"/>	> 1	15 Points

3.1.4 Were biosolids land applied which exceeded the ceiling limit?

0

- Yes(20 points)
- No (0 points)

3.1.5 If any metal limit (high quality or ceiling) was exceeded at any time, what action was taken?

COMPLIANCE MAINTENANCE ANNUAL REPORT

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Biosolids Quality and Management (Continued)

	Has the source of the metals been identified?	

4.	Pathogen Control(per outfall):																	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 45%;">Outfall Number:</td> <td>002</td> </tr> <tr> <td>Biosolids Class:</td> <td>B</td> </tr> <tr> <td>Bacteria Type and Limit</td> <td></td> </tr> <tr> <td>Sample Dates:</td> <td>01/01/2013 12:00:00 AM - 12/31/2013 12:00:00 AM</td> </tr> <tr> <td>Density:</td> <td></td> </tr> <tr> <td>Sample Concentrator Amount:</td> <td></td> </tr> <tr> <td>Process:</td> <td>ANAER</td> </tr> <tr> <td>Process Description:</td> <td>MCRT of the biosolids in digester is calculated daily and maintained greater than 15 days. Digester temperature is recorded daily and is maintained greater than 35 degrees C.</td> </tr> </table>	Outfall Number:	002	Biosolids Class:	B	Bacteria Type and Limit		Sample Dates:	01/01/2013 12:00:00 AM - 12/31/2013 12:00:00 AM	Density:		Sample Concentrator Amount:		Process:	ANAER	Process Description:	MCRT of the biosolids in digester is calculated daily and maintained greater than 15 days. Digester temperature is recorded daily and is maintained greater than 35 degrees C.	
Outfall Number:	002																	
Biosolids Class:	B																	
Bacteria Type and Limit																		
Sample Dates:	01/01/2013 12:00:00 AM - 12/31/2013 12:00:00 AM																	
Density:																		
Sample Concentrator Amount:																		
Process:	ANAER																	
Process Description:	MCRT of the biosolids in digester is calculated daily and maintained greater than 15 days. Digester temperature is recorded daily and is maintained greater than 35 degrees C.																	

	<p>4.1 If exceeded Class B limit or did not meet the process criteria at the time of land application(40 Points)</p> <p>4.1.1 Was the limit exceeded or the process criteria not met at any time?</p> <p style="margin-left: 40px;"> <input type="radio"/> Yes <input checked="" type="radio"/> No </p> <p>If yes, what action was taken?</p> <div style="border: 1px solid black; height: 20px; width: 400px; margin-left: 40px;"></div>	
--	---	--

5.	Vector Attraction Reduction(per outfall):0											
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 45%;">Outfall Number:</td> <td>002</td> </tr> <tr> <td>Method Date:</td> <td>12/31/2013 12:00:00 AM</td> </tr> <tr> <td>Option Used To Satisfy Requirement:</td> <td>VSR</td> </tr> <tr> <td>Limit (if applicable):</td> <td>38</td> </tr> <tr> <td>Results (if applicable):</td> <td>69</td> </tr> </table>	Outfall Number:	002	Method Date:	12/31/2013 12:00:00 AM	Option Used To Satisfy Requirement:	VSR	Limit (if applicable):	38	Results (if applicable):	69	
Outfall Number:	002											
Method Date:	12/31/2013 12:00:00 AM											
Option Used To Satisfy Requirement:	VSR											
Limit (if applicable):	38											
Results (if applicable):	69											

COMPLIANCE MAINTENANCE ANNUAL REPORT

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Biosolids Quality and Management (Continued)

	5.1 If the limit or criteria was exceeded at the time of land application, 40 point	0
	5.1.1 Was the limit exceeded or the process criteria not met at any time? <input type="radio"/> Yes <input checked="" type="radio"/> No If yes, what action was taken? <div style="border: 1px solid black; height: 20px; width: 400px; margin-top: 5px;"></div>	
6.	Biosolids Storage:0	
	6.1 How many days of actual, current biosolids storage capacity did your wastewater treatment facility have either on-site or off-site?	0
	<input checked="" type="radio"/> >+ 180 days (0 points) <input type="radio"/> 150 - 179 days (10 points) <input type="radio"/> 120 - 149 days (20 points) <input type="radio"/> 90 - 119 days (30 points) <input type="radio"/> < 90 days (40 points) <input type="radio"/> Not Applicable (0 points)	
	6.2 If you check Not Applicable above, explain why. <div style="border: 1px solid black; height: 20px; width: 400px; margin-top: 5px;"></div>	
7.	Issues:	
	7.1 Describe any outstanding biosolids issues with treatment, use or overall mgt? <div style="border: 1px solid black; height: 20px; width: 400px; margin-top: 5px;"></div>	

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
5/20/2014

Reporting Year: 2013

Staffing and Preventative Maintenance (All Treatment Plants)

	Questions	Points
1.	<p>Was your wastewater treatment plant adequately staffed last year?</p> <p> <input checked="" type="radio"/> Yes <input type="radio"/> No </p> <p>If No, please describe:</p> <div style="border: 1px solid black; height: 20px; width: 60%; margin-bottom: 10px;"></div> <p>Could use more help/staff for:</p> <div style="border: 1px solid black; height: 20px; width: 60%;"></div>	
2.	<p>Did your wastewater staff have adequate time to properly operate and maintain the plant and fulfill all wastewater management tasks including recordkeeping?</p> <p> <input checked="" type="radio"/> Yes <input type="radio"/> No. Explain </p> <div style="border: 1px solid black; height: 20px; width: 60%; margin-top: 10px;"></div>	
3.	<p>Did your plant have a <u>documented AND implemented</u> plan for preventative maintenance on major equipment items?</p> <p> <input checked="" type="radio"/> Yes (Continue with questions below) <input type="radio"/> No (40 points and go to question 6) </p> <p>If No, explain:</p> <div style="border: 1px solid black; height: 20px; width: 60%; margin-top: 10px;"></div>	0
4.	<p>Did this preventative maintenance program depict frequency of intervals, types of lubrication, and other tasks necessary for each piece of equipment?</p> <p> <input checked="" type="radio"/> Yes <input type="radio"/> No (10 points) </p>	0
5.	<p>Were these preventative maintenance tasks, as well as major equipment repairs, recorded and filed so future maintenance problems can be assessed properly?</p> <p> <input checked="" type="radio"/> Yes <input type="radio"/> (Paper file system) <input type="radio"/> (Computer program) <input checked="" type="radio"/> (Both Paper and Computer) <input type="radio"/> No (10 points) </p>	0
6.	<p>Did your plant have a detailed O&M Manual that was used as a reference when needed?</p>	

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
5/20/2014

Reporting Year: 2013

Staffing and Preventative Maintenance (All Treatment Plants) (Continued)

	<input checked="" type="radio"/> Yes <input type="radio"/> No	
7.	Rate the overall maintenance of your wastewater plant.	
	<input type="radio"/> Excellent <input checked="" type="radio"/> Very Good <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor	
	Describe your rating: <div style="border: 1px solid black; padding: 2px; width: fit-content;">Can Always be better</div>	

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/29/2014

Reporting Year: 2013

Operator Certification and Education

Questions		Points
1.	<p>Did you have a designated operator-in-charge during the report year?</p> <p> <input checked="" type="radio"/> Yes (0 point) <input type="radio"/> No (20 points) </p> <p>Name: <input type="text" value="TERENCE L VANDEN HEUVEL"/></p> <p>Certification No: <input type="text" value="31771"/></p>	0
2.	<p>In accordance with Chapter NR 114.08 and 114.09, Wisconsin Administrative Code, what grade and subclass(es) were required for the operator-in-charge to operate the wastewater treatment plant and what grade and subclass(es) were held by the operator-in-charge?</p> <p>Required: <input type="text" value="4 - ACEFGIJ; A - PRIMARY SETTLING; C - ACTIVATED SLUDGE; E - DISINFECTION; F - ANAEROBIC DIGESTION; G - MECHANICAL SLUDGE; I - PHOSPHORUS REMOVAL; J - LABORATORY"/></p> <p>Held: <input type="text" value="4 - ACEFGIJ; 4 - A=PRIMARY SETTLING GRADE 4; C=ACTIVATED SLUDGE GRADE 4; E=DISINFECTION GRADE 4; F=ANAEROBIC DIGESTION GRADE 4; G=MECHANICAL SLUDGE GRADE 4; I=PHOSPHORUS REMOVAL GRADE 4; J=LABORATORY GRADE 4"/></p>	
3.	<p>Was the operator-in-charge certified at the appropriate level to operate this plant?</p> <p> <input checked="" type="radio"/> Yes (0 point) <input type="radio"/> No (20 points) </p>	0
4.	<p>In the event of the loss of your designated operator-in-charge, did you have a contingency plan to ensure the continued proper operation & maintenance of the plant that includes one or more of the following options (check all that apply):</p> <p> 4.1 <input checked="" type="checkbox"/> one or more additional certified operators on staff 4.2 <input type="checkbox"/> an arrangement with another certified operator 4.3 <input type="checkbox"/> an arrangement with another community with a certified operator 4.4 <input type="checkbox"/> an operator on staff who has an operator-in-training certificate for your plant and is expected be certified within one year 4.5 <input type="checkbox"/> a consultant to serve as your certified operator 4.6 <input type="checkbox"/> None of the above (20 points) </p> <p>Explain: <input type="text"/></p>	0
5.	<p>If you had a designated operator-in-charge, was the operator-in-charge earning continuing education credits at the following rates?</p>	

COMPLIANCE MAINTENANCE ANNUAL REPORT

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Reporting Year: 2013

Operator Certification and Education (Continued)

	Grades T, 1, and 2: <input type="radio"/> Averaging 6 or more CEUs per year <input type="radio"/> Averaging less than 6 CEUs per year Grades 3 and 4: <input checked="" type="radio"/> Averaging 8 or more CEUs per year <input type="radio"/> Averaging less than 8 CEUs per year Not applicable: <input type="radio"/> See Question 1.	
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Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/30/2014

Reporting Year: 2013

Financial Management

	Questions	Points						
1.	Person Providing This Financial Information							
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Name:</td> <td style="border: 1px solid black; padding: 2px;">Kim Kriewald</td> </tr> <tr> <td>Telephone:</td> <td style="border: 1px solid black; padding: 2px;">(715) 536-6561</td> </tr> <tr> <td>E-Mail Address(optional):</td> <td style="border: 1px solid black; padding: 2px;">kim.kriewald@ci.merrill.wi.us</td> </tr> </table>	Name:	Kim Kriewald	Telephone:	(715) 536-6561	E-Mail Address(optional):	kim.kriewald@ci.merrill.wi.us	
Name:	Kim Kriewald							
Telephone:	(715) 536-6561							
E-Mail Address(optional):	kim.kriewald@ci.merrill.wi.us							
2.	Are User Charge or other Revenues sufficient to cover O&M Expenses for your wastewater treatment plant AND/OR collection system ?	0						
	<p> <input checked="" type="radio"/> Yes (0 points) <input type="radio"/> No (40 points) </p> <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 60%; margin-left: 20px;"></div>							
3.	When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: 2013	0						
	<p> <input checked="" type="radio"/> 0-2 years ago (0 points) <input type="radio"/> 3 or more years ago (20 points) <input type="radio"/> Not Applicable (Private Facility) </p>							
4.	Did you have a special account (e.g., CWFP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system?	0						
	<p> <input checked="" type="radio"/> Yes <input type="radio"/> No (40 points) </p>							
REPLACEMENT FUNDS(PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 5)								
5.	Equipment Replacement Funds							
	5.1 When was the Equipment Replacement Fund last reviewed and/or revised? Year: 2013	0						
	<p> <input checked="" type="radio"/> 1-2 years ago (0 points) <input type="radio"/> 3 or more years ago (20 points) <input type="radio"/> Not Applicable Explain: </p> <div style="border: 1px solid black; height: 20px; width: 60%; margin-left: 20px;"></div>							
	5.2 What amount is in your Replacement Fund? Equipment Replacement Fund Activity							
	5.2.1 Ending Balance Reported on Last Year's CMAR:	\$756917						

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/30/2014

Reporting Year: 2013

Financial Management (Continued)

	<p>5.2.2 Adjustments + \$0.00 if necessary (e.g., earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)</p> <p>5.2.3 Adjusted January 1st Beginning Balance \$756,917.00</p> <p>5.2.4 Additions to Fund (e.g., portion of User Fee, earned interest, etc.) + \$182,595.68</p> <p>5.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 5.2.5.1 below*) - \$35,844.37</p> <p>5.2.6 Ending Balance as of December 31st for CMAR Reporting Year \$903,668.31</p> <p>(All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc.)</p> <p>*5.2.5.1. Indicate adjustments, equipment purchases and/or major repairs from 5.2.5 above</p> <div style="border: 1px solid black; padding: 2px;"> <p>new blower motor, chemical feed pumps, debt service</p> </div>											
	<p>5.3 What amount <u>should</u> be in your replacement fund? \$1,048,582.00</p> <p>(If you had a CWFPP loan, this amount was originally based on the Financial Assistance Agreement (FAA) and should be regularly updated as needed. Further calculation instructions and an example can be found by clicking the HELP option button.)</p>											
	<p>5.3.1 Is the Dec. 31 Ending Balance in your Replacement Fund above (#5.2.6) equal to or greater than the amount that should be in it(#5.3)?</p> <p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No Explain:</p> <div style="border: 1px solid black; padding: 2px;"> <p>using DNR's percentage of mechanical equipment method 40% of the replacement fund assets. 144,914.00 under funded</p> </div>											
6.	Future Planning											
	<p>6.1 During the next ten years, will you be involved in formal planning for upgrading, rehabilitating or new construction of your treatment facility or collection system?</p> <p><input checked="" type="radio"/> Yes (If yes, please provide major project information, if not already listed below)</p> <p><input type="radio"/> No</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 60%;">Project Description</th> <th style="width: 20%;">Estimated Cost</th> <th style="width: 20%;">Approximate Construction Year</th> </tr> </thead> <tbody> <tr> <td>Replace Wisconsin River force main.</td> <td style="text-align: right;">\$750000</td> <td style="text-align: center;">2014</td> </tr> <tr> <td>projects to be determined</td> <td style="text-align: right;">\$</td> <td></td> </tr> </tbody> </table>	Project Description	Estimated Cost	Approximate Construction Year	Replace Wisconsin River force main.	\$750000	2014	projects to be determined	\$			
Project Description	Estimated Cost	Approximate Construction Year										
Replace Wisconsin River force main.	\$750000	2014										
projects to be determined	\$											
7.	Financial Management General Comments:											
	<div style="border: 1px solid black; width: 100%; height: 100%;"></div>											

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
4/30/2014

Reporting Year: 2013

Financial Management (Continued)

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

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4/30/2014

Reporting Year: 2013

Financial Management (Continued)

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
5/12/2014

Reporting Year: 2013

Sanitary Sewer Collection Systems

	Questions	Points
1.	Do you have a Capacity, Management, Operation & Maintenance(CMOM) requirement in your WPDES permit?	
	<input type="radio"/> Yes <input checked="" type="radio"/> No	
2.	Did you have a <u>documented</u> (written records/files, computer files, video tapes, etc.) sanitary sewer collection system operation & maintenance or CMOM program last calendar year?	0
	<input checked="" type="radio"/> Yes (go to question 3) <input type="radio"/> No (30 points) (go to question 4)	
3.	Check the elements listed below that are included in your Operation and Maintenance (O&M) or CMOM program.:	
	<div style="margin-left: 20px;"> <input type="checkbox"/> Goals: Describe the specific goals you have for your collection system: <input type="checkbox"/> Organization: Do you have the following written organizational elements (check only those that you have): <ul style="list-style-type: none"> <input type="checkbox"/> Ownership and governing body description <input type="checkbox"/> Organizational chart <input type="checkbox"/> Personnel and position descriptions <input type="checkbox"/> Internal communication procedures <input type="checkbox"/> Public information and education program <input checked="" type="checkbox"/> Legal Authority: Do you have the legal authority for the following (check only those that apply): <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Sewer use ordinance Last Revised MM/DD/YYYY 01/10/2012 <input checked="" type="checkbox"/> Pretreatment/Industrial control Programs <input checked="" type="checkbox"/> Fat, Oil and Grease control <input checked="" type="checkbox"/> Illicit discharges (commercial, industrial) <input checked="" type="checkbox"/> Private property clear water (sump pumps, roof or foundation drains, etc) <input checked="" type="checkbox"/> Private lateral inspections/repairs <input type="checkbox"/> Service and management agreements <input checked="" type="checkbox"/> Maintenance Activities: details in Question 4 <input checked="" type="checkbox"/> Design and Performance Provisions: How do you ensure that your sewer system is designed and constructed properly? <ul style="list-style-type: none"> <input checked="" type="checkbox"/> State plumbing code <input checked="" type="checkbox"/> DNR NR 110 standards <input checked="" type="checkbox"/> Local municipal code requirements <input checked="" type="checkbox"/> Construction, inspection and testing <input type="checkbox"/> Others: </div>	

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

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Sanitary Sewer Collection Systems (Continued)

	<p><input checked="" type="checkbox"/> Overflow Emergency Response Plan: Does your emergency response capability include (check only those that you have):</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Alarm system and routine testing <input checked="" type="checkbox"/> Emergency equipment <input type="checkbox"/> Emergency procedures <input type="checkbox"/> Communications/Notifications (DNR, Internal, Public, Media etc) <p><input checked="" type="checkbox"/> Capacity Assurance: How well do you know your sewer system? Do you have the following?</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Current and up-to-date sewer map <input checked="" type="checkbox"/> Sewer system plans and specifications <input checked="" type="checkbox"/> Manhole location map <input checked="" type="checkbox"/> Lift station pump and wet well capacity information <input checked="" type="checkbox"/> Lift station O&M manuals <p>Within your sewer system have you identified the following?</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Areas with flat sewers <input checked="" type="checkbox"/> Areas with surcharging <input checked="" type="checkbox"/> Areas with bottlenecks or constrictions <input checked="" type="checkbox"/> Areas with chronic basement backups or SSO's <input checked="" type="checkbox"/> Areas with excess debris, solids or grease accumulation <input checked="" type="checkbox"/> Areas with heavy root growth <input checked="" type="checkbox"/> Areas with excessive infiltration/inflow (I/I) <input type="checkbox"/> Sewers with severe defects that affect flow capacity <input type="checkbox"/> Adequacy of capacity for new connections <input type="checkbox"/> Lift station capacity and/or pumping problems <p><input type="checkbox"/> Annual Self-Auditing of your O&M/CMOM Program to ensure above components are being implemented, evaluated, and re-prioritized as needed.</p> <p><input type="checkbox"/> Special Studies Last Year (check only if applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Infiltration/Inflow (I/I) Analysis <input type="checkbox"/> Sewer System Evaluation Survey (SSES) <input type="checkbox"/> Sewer Evaluation and Capacity Management Plan (SECAP) <input type="checkbox"/> Lift Station Evaluation Report <input type="checkbox"/> Others: 	
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4. Did your sanitary sewer collection system maintenance program include the following maintenance activities? Complete all that apply and indicate the amount maintained:

Cleaning	34.2	% of system/year
Root Removal	2.3	% of system/year
Flow Monitoring	0	% of system/year
Smoke Testing	0	% of system/year
Sewer Line Televising	1	% of system/year
Manhole Inspections	32.1	% of system/year

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
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Reporting Year: 2013

Sanitary Sewer Collection Systems (Continued)

Lift Station O&M	2	# per L.S./year
Manhole Rehabilitation	1	% of manholes rehabed
Mainline Rehabilitation	0	% of sewer lines rehabed
Private Sewer Inspections	1	% of system/year
Private Sewer I/I Removal	0	% of private services
Please include additional comments about your sanitary sewer collection system below:		
chemically treated an additional 2.27 miles of sanitary sewer		

5. Provide the following collection system and flow information for the past year:

39.69	Total Actual Amount of Precipitation Last Year
32.41	Annual Average Precipitation (for your location)
72.3	Miles of Sanitary Sewer
8	Number of Lift Stations
0	Number of Lift Station Failure
0	Number of Sewer Pipe Failures
9	Number of Basement Backup Occurrences
41	Number of Complaints
1.067	Average Daily Flow in MGD
1.5949	Peak Monthly Flow in MGD(if available)
	Peak Hourly Flow in MGD(if available)

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
5/12/2014

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Sanitary Sewer Collection Systems (Continued)

LIST OF SANITARY SEWER OVERFLOWS (SSO) REPORTED				
	Date	Location	Cause	Estimated Volume (MG)
NONE REPORTED				
<p>** If there were any SSO's that are not listed above, please contact the DNR and stop work on this section until corrected.</p> <p>What actions were taken, or are underway, to reduce or eliminate SSO occurrences in the future?</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>				
PERFORMANCE INDICATORS				
0.00	Lift Station Failures(failures/ps/year)			
0.00	Sewer Pipe Failures(pipe failures/sewer mile/yr)			
0.00	Sanitary Sewer Overflows (number/sewer mile/yr)			
0.12	Basement Backups(number/sewer mile)			
0.57	Complaints (number/sewer mile)			
1.5	Peaking Factor Ratio (Peak Monthly:Annual Daily Average)			
0.0	Peaking Factor Ratio(Peak Hourly:Annual daily Average)			
6.	Was infiltration/inflow(I/I) significant in your community last year?			
<p style="text-align: center;"> <input checked="" type="radio"/> Yes <input type="radio"/> No </p> <p>If Yes, please describe:</p> <div style="border: 1px solid black; padding: 5px;"> Flows during the period of April through July of last year our flows were up an average of about 300,000 gallons per day when we experienced higher precipitation. </div>				
7.	Has infiltration/inflow and resultant high flows affected performance or created problems in your collection system, lift stations, or treatment plant at any time in the past year?			
<p style="text-align: center;"> <input checked="" type="radio"/> Yes <input type="radio"/> No </p> <p>If Yes, please describe:</p> <div style="border: 1px solid black; padding: 5px;"> more operational changes due to hydraulic loading </div>				
8.	Explain any infiltration/inflow(I/I) changes this year from previous years?			
<div style="border: 1px solid black; padding: 5px;"> more I&I due to increase in percipitation and higher river levels </div>				
9.	What is being done to address infiltration/inflow in your collection system?			
<div style="border: 1px solid black; padding: 5px;"> developing a CMOM </div>				

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:
5/12/2014

Reporting Year: 2013

Sanitary Sewer Collection Systems (Continued)

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:

Reporting Year: 2013

WPDES No.0020150

GRADING SUMMARY				
SECTION	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent Loadings	A	4.0	3	12
Effluent Quality:BOD	B	3.0	10	30
Effluent Quality:TSS	A	4.0	5	20
Effluent Quality:P	C	2.0	3	6
Biosolids Mgt.	A	4.0	5	20
Prev.Maintenance.Staffing	A	4.0	1	4
Operator Certification	A	4.0	1	4
Financial Management	A	4.0	1	4
Collection Systems	A	4.0	3	12
TOTALS			32	112
GRADE POINT AVERAGE(GPA)=3.50		3.50		

Notes:

A = Voluntary Range

B = Voluntary Range

C = Recommendation Range (Response Required)

D = Action Range (Response Required)

F = Action Range (Response Required)

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Merrill City Of

Last Updated:

Reporting Year: 2013

Resolution or Owner's Statement

NAME OF GOVERNING BODY OR OWNER	DATE OF RESOLUTION OR ACTION TAKEN
RESOLUTION NUMBER	
ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR SECTIONS (Optional for grade A or B. Required for grade C, D, or F. Regardless of grade, required for Collection Systems if SSO's were reported):	
Influent Flow and Loadings: Grade=A	
Effluent Quality: BOD: Grade=B	
Effluent Quality: TSS: Grade=A	
Effluent Quality: Phosphorus: Grade=C	
Due to loss of our biological phosphorus removal that had started working and at the same time our spec. went out and had to be sent in for repairs and we were unable to check our orthophosphate levels. The spectrophotometer has been repaired and plans have been made with the water utility to use their spectrophotometer in the event it ever goes out again. Looking at purchasing an in-line orthophosphate analyzer to respond to increases in phosphorus loading in a more timely fashion in contrast to waiting for results of the weekly testing. The use of this new technology would help to insure that the facility will remain compliant.	
Biosolids Quality and Management: Grade=A	
Staffing: Grade=A	
Operator Certification: Grade=A	
Financial Management: Grade=A	
Collection Systems: Grade=A	
ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE AND ANY GENERAL COMMENTS (Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00) G.P.A. = 3.50	

{Enter agenda no.}

RESOLUTION NO. _____

A RESOLUTION APPROVING THE 2013 COMPLIANCE MAINTENANCE ANNUAL REPORT FOR THE CITY OF MERRILL WASTEWATER TREATMENT PLANT

WHEREAS, the City of Merrill is required by the Wisconsin Department of Natural Resources (WDNR) to complete a Compliance Maintenance Annual Report on its Wastewater Treatment Plant; and

WHEREAS, the Water and Sewage Committee, of the City of Merrill, has reviewed the Compliance Maintenance Report for the year 2013, and has determined that it reflects the performance of the Wastewater Treatment Plant during 2013; and

WHEREAS, the report indicates a need for continued improvements at the Wastewater Treatment Plant and its operations to meet the requirements set forth by the WDNR;

NOW THEREFORE, BE IT RESOLVED BY THE COMMON COUNCIL OF THE CITY OF MERRILL, WISCONSIN, this 10th day of June, 2014, that:

1. The Compliance Maintenance Annual Report for 2013 is hereby approved and authorized to be filed with the WDNR.
2. That the Compliance Maintenance Annual Report for 2013 is an accurate indication of the performance of the City of Merrill Wastewater Treatment Plant for the year 2013.
3. That report sets forth the following actions necessary to maintain an effluent requirement contained in the Wisconsin Pollutant Discharge Elimination Systems Permit:
 - (a) Develop and implement a CMOM program.
 - (b) Review testing schedule for phosphorus and determine what changes can be made to be more proactive with available resources to remain in compliance.

Recommended by Water and Sewage
Committee

CITY OF MERRILL, WISCONSIN

Moved: _____

William R. Bialecki, Mayor

Passed: _____

William N. Heideman, City Clerk

PHOSPHORUS ANALYZER QUOTES

SUPPLIER	BRAND	COST	ADDED EQUIPMENT COST	ADDED EQUIPMENT	TOTAL COST WITH ADD ONS	CHEMICAL COST PER YEAR	range	set up	chem included
Durable Controls, Inc.	STAMOLYS	\$ 12,341.60			\$12,341.60	\$ 730.00	0.5-50 ppm	no	1 set
Berg-Johnson Associates	ABB	\$ 13,680.16	\$ 2,700.00	SAMPLER	\$16,380.16	\$ 1,581.67	0.05-10 ppm	yes	1 set
William/Reid	ASA Analytics	\$ 14,500.00			\$14,500.00	\$ 1,480.00	0.030-3.0 ppm	yes	1 set
Galvanic Applied Sciences USA	Tytronics	\$ 14,500.00			\$14,500.00	\$ 2,380.00	0-3 ppm	no	no
HACH	HACH	\$ 14,945.00	\$ 2,788.00	filter/ service agreement	\$17,733.00	\$ 438.00	0.05-15 ppm	yes with service agreement	cleaning solution
Rosemount Analytical	rosemount	\$ 16,225.00	\$ 748.00	3 months chemicals	\$16,973.00	\$ 2,992.00	0-10 ppm	no	no
Mulcahy Shaw Water	YSI	\$ 18,574.30			\$18,574.00	\$ 397.00	0.15-46 ppm	yes	1 set

Comparison of purchase cost plus 5 years of chemical cost:

Stamolys- \$15,992.00

ABB- \$24,290.00

ASA Analytics- \$21,900.00

Tytronics - \$26,400.00

HACH - \$19,923.00

Rosemount- \$31,933.00

YSI - \$20,559.00

May 22, 2014

TO: Water & Sewage Committee

FROM: Kim Kriewald, Utility Superintendent

RE: Operations Report

Water & Sewer Operations & Water Recycling Operations aka Wastewater Operations

Project of replacement of grit removal system has been completed.

Project to replace emergency generator and MCC panel is nearing completion; possibly switch over the week of June 2nd

Same as in the last few months, the majority of the influent flow is clear water. Hats off to the operators there at making adjustments over a difficult period to maintain compliance.

Early to mid-June, filter will be down for maintenance.

Working on collection system annual cleaning.

GPS curb box locations while marking shut-offs for sidewalk inspections.

Hope to start land applying bio-solids 1st week of June.

Worked on CMAR

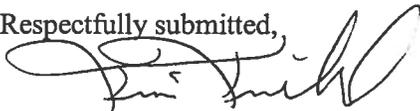
Repaired watermain leaks – Kyes & E 7th St; N Genesee & W 7th St; W 1st St & State

Summer help started May 19th

Tested all river crossings – all are ok

Flushed hydrants last week – water clearing quicker than usual.

Respectfully submitted,



Kim Kriewald
Utilities Superintendent

ah