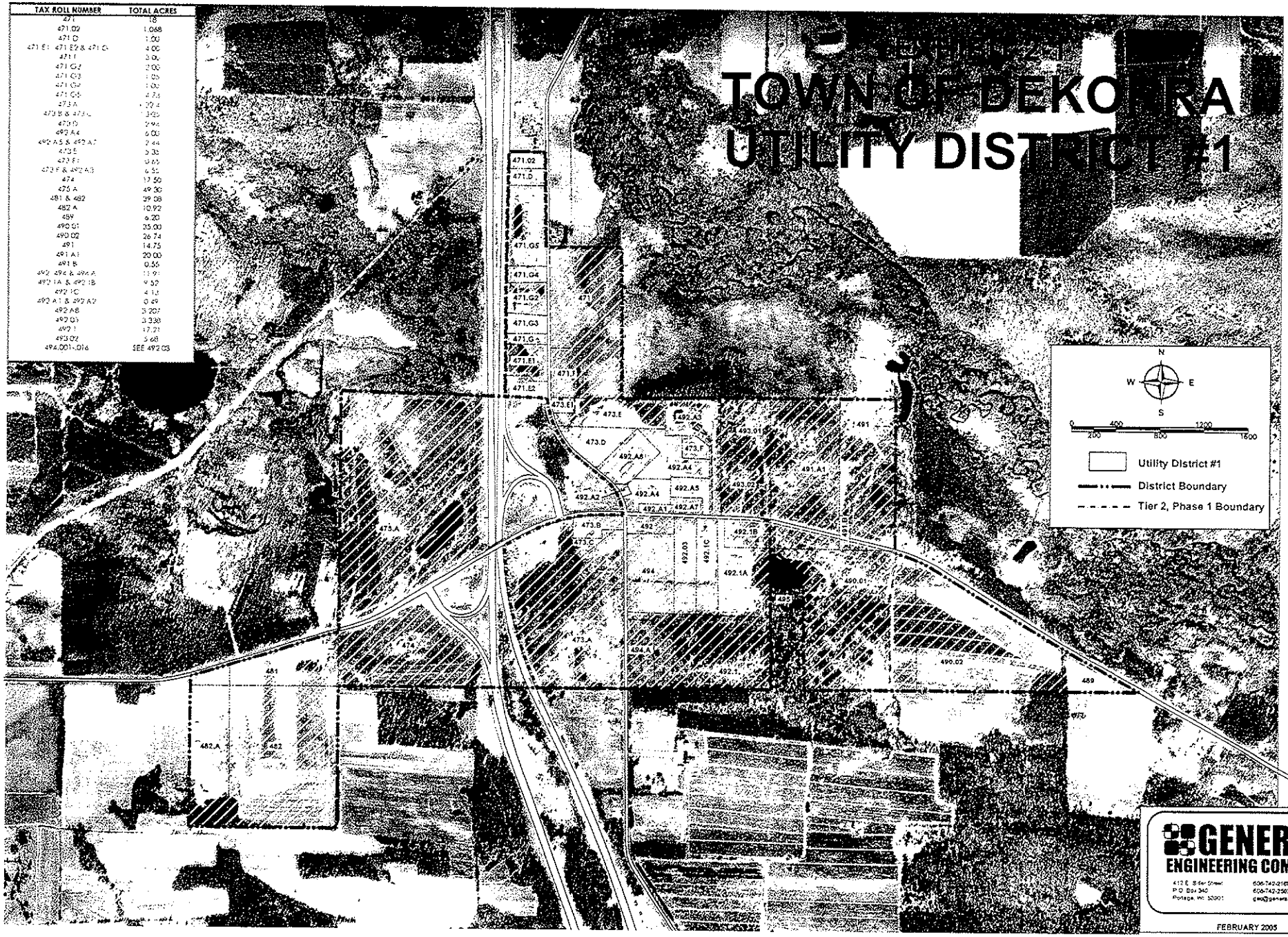
APPENDIX A

UTILITY DISTRICT BOUNDARY MAP
&
UTILITY DISTRICT SERVICE AREA MAP

TOWN OF DEKORA
UTILITY DISTRICT #1

TAX ROLL NUMBER	TOTAL ACRES
471	18
471.02	1.068
471.D	1.00
471.E1, 471.E2 & 471.G	4.00
471.I	3.00
471.G2	2.00
471.G3	1.00
471.G4	1.00
471.G5	4.74
473.A	70.4
473.B & 473.C	3.95
473.D	5.94
492.A4	6.00
492.A5 & 492.A7	7.44
473.E	5.35
473.F1	9.67
473.F & 492.A3	6.52
474	17.50
475.A	49.90
481 & 482	39.08
482.A	10.92
489	6.20
490.01	35.00
490.02	26.74
491	14.75
491.A1	20.00
491.B	0.55
492, 494 & 494.A	11.91
492.1A & 492.1B	9.50
492.1C	4.13
492.A1 & 492.A2	0.69
492.A6	3.207
492.03	3.330
492.1	17.71
493.02	5.68
494.001-.016	SEE 492.03



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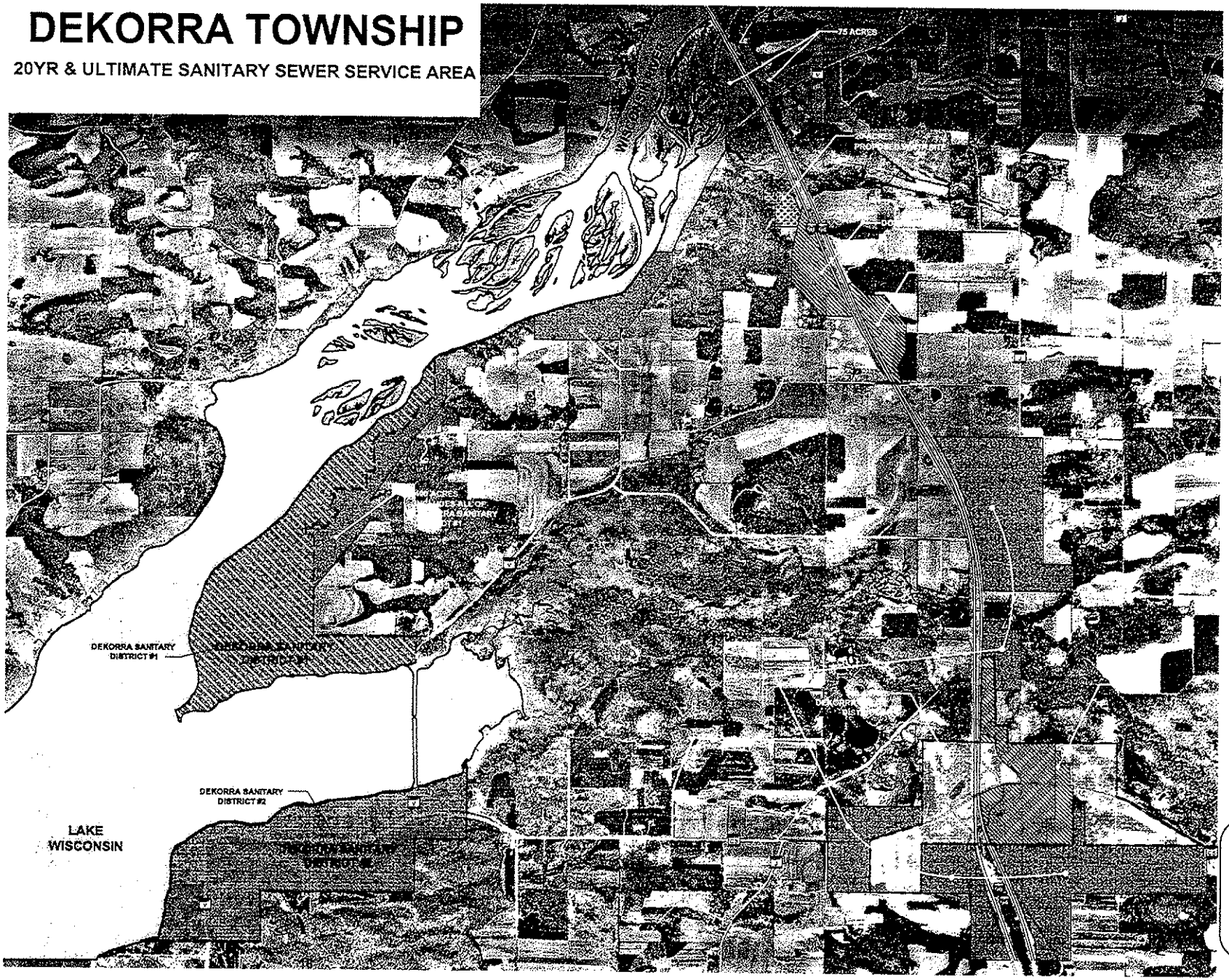
FEBRUARY 2005

DEKORRA TOWNSHIP

20YR & ULTIMATE SANITARY SEWER SERVICE AREA

EXHIBIT 3-2



LEGEND

- WISCONSIN RIVER
- ORIGINAL UTILITY DISTRICT
- PROPOSED UTILITY DISTRICT #1
- PROPOSED UTILITY DISTRICT #1 WWTP SITE
- INITIAL SERVICE AREA
- 20 YEAR SERVICE AREA
- ULTIMATE SERVICE AREA
- SANITARY DISTRICT #1
- SANITARY DISTRICT #2
- DISTRICT BOUNDARY

N
W E
S

0 1200 3600
600 2400 4800

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JUNE 2004

APPENDIX B

ASSESSMENT REPORT
WASTEWATER COLLECTION AND TREATMENT FACILITIES

ASSESSMENT REPORT

WASTEWATER COLLECTION AND TREATMENT FACILITIES

DEKORRA UTILITY DISTRICT NO. 1
Town of Dekorra, Columbia County, Wisconsin

PROJECT BACKGROUND

The Town of Dekorra has been looking at the potential for developing utilities service for the CTH CS/I90-94 interchange corridor area that has been zoned Highway Interchange by the County for a number of years. Gradual development has occurred in this area in the past - most notably, the McDonald's and Subway fast food restaurants, Diamond Star wood processing plant and the Missoula Mac management/training center. There are also several businesses oriented around cars and trucks. There continues to be inquiries each year regarding the sale and developability of the interchange area lands. This interchange area has a high potential for commercial and light industrial growth. Sewer utility service, however, appears to be the key component to allow the interchange to expand with quality development. The Town has looked at developing a Utility District at the interchange for a number of years. Until recently, the cost to develop, construct, operate, and maintain a Utility District with sewer service, considering the present type and number of users, was not perceived as cost effective.

The Town took an important step toward providing this service by forming Dekorra Utility District No. 1 on April 14, 1998. The primary reason for instigating this was that in 1997 the Town became aware of the DOT's intentions to upgrade two I39/90/94 Interstate rest areas (#11 & #12). The DOT's first thought was to pump their sewage to Poynette's wastewater treatment plant as it was within reasonable access distance and did not appear to have capacity concerns. Their other option was to construct the State's largest on-site septic system. The Town Board and Utility District looked at this situation as an opportunity to greatly enhance development of the interchange and suggested that utilizing capital underwriting by the DOT could make the project feasible for the Town to take on and be a win-win solution for the Town and DOT. It would require that the Town construct a wastewater treatment facility (WWTF) consisting of the treatment plant and seepage cells as well as a substantial sanitary collection system. The DOT

expansion of the existing WWTF to serve the demands of these additional new users. Costs associated would be borne by those users.

The proposed plan is seen by many of the property owners in the Utility District as a positive step. Numerous meetings have been held to inform landowners of the cost implications and timing of the development. Some property owners have shown strong opposition due to the assessment costs for their portion of the collection and treatment facilities. The DOT has agreed to finance 70% of the WWTF, transmission facilities and Core and West Side collection system costs. The DOT's contribution will be $3,496,000. Core Area and West Side property owners, due to their general initial commitment to the project, will receive the largest subsidy on their assessments. Property owners outside the Core Area and West Side will receive less subsidy.

Some have been skeptical and believe that the interchange will not develop in a timely manner and fear they will be stuck with vacant, sewered land. Others reside on their parcels in the District and are not interested in selling/developing portions at this time even though their land is zoned highway interchange. They feel they are being forced into paying for something they don't want. The Utility District has, as a result, separated the "Core Area" from the "East" and "West" sides. The Core and West Side Areas are sewered as part of the initial construction project and the East Side would be sewered as development pushes out east from the Core Area. If there is a property owner request, the Town reserves the right to sewer portions of the East lands as that need may arise.

PROJECT SCOPE

The Utility District No. 1 boundary is described in Attachment A. The entire Utility District collection system has been designed and competitively bid in separate Core, East and West packages to contractors to determine actual costs to construct and assess as required. Unless East Side property owners make specific requests, the Core Area and West Side only will be sewered at this time.

Gravity sewer mains are installed on CTH CS from the east side of the interstate to the east side of the Diamond Star property, on Smokey Hollow Road from CTH CS to the south end of the Utility District, on CTH J from CTH CS to the north end of the Utility District, and west

Rather, it is an up front payment made by the DOT on an 70% DOT/ 30% U.D. matching plan to cover the capital costs of treatment for the DOT Rest Areas 11 and 12 through the year 2027. This includes an amount by which the DOT recognizes the delays to the project due to the land issues and cost escalations due to oil price hikes during this period.

The Town has taken out $300,000 and $350,000 general obligation bonds, and a $950,000 bond anticipation note to finance its portion of the cost of the project. The bond anticipation note will be converted to a general obligation bond within the next five years. The Town will make payments on these loans through assessments to property owners in the Utility District.

ASSESSMENTS

The character of the properties within the Utility District is very diverse. The parcels vary from developed to undeveloped. A number of parcels have flat or steep sloped, wetland or upland, and wooded or pasture portions. These parcels will have varying challenges in developing. Nonetheless, all of the undeveloped properties in the Utility District have development potential. While the precise development that will take place on the undeveloped properties is currently unknown, all will make use of the sewer.

Some of the undeveloped properties that have portions with development limitations may actually have greater development potential through creative layouts of development that take advantage of the lands with development limitations, along the lines of conservation subdivisions and cluster developments. The Utility District will set policy to allow natural areas with development limitations on a parcel to contribute to the "Green Space" requirements when that parcel develops. The Town Board shall adopt these policies. This will also hold true for those larger parcels that subdivide into smaller parcels. Each subdivided lot, of the original parcel, will be allowed to utilize a portion of the original parcel's natural area.

Accordingly, the assessments are calculated on an acreage basis, recognizing that the owner of each undeveloped parcel will have the incentive to maximize the development potential of the property. This is possible by making creative use of those portions with development limitations to turn them into amenities and/or utilize them to satisfy green space requirements rather than view them as detriments to development. This approach is fairer to all

East side Properties (not initially serviced by an adjacent collection system) will be given up to a 10-year deferral on the start of assessments to allow development plans to their property to be actualized. Assessments will be initiated as soon as the collection system adjacent to their property is constructed.

A special Utility District tax may be imposed on a yearly basis to all U.D. properties to help defer interest payments during the initial years of the U.D. development and to enable lower interest rates when the Bond Anticipation Note is converted.

A sewer connection fee over and above the assessment may be charged to properties that exceed the 1 REU per acre wastewater usage allotment that equates to approximately 500 gallons per day per acre (gpd/ac).

The construction project (Four separate Contracts) was advertised and bid under the rules of the Wisconsin Statutes. The costs to be assessed are based on the bid prices of the construction contract, a construction contingency and anticipated legal, engineering and administrative costs. The project cost breakdown is included as Attachment D, available for inspection at the Town Clerk's office. The assessment methodology, format and schedules are included as Attachment E accompanying this document.

In that the collection system and WWTF have not yet been completely constructed, the final project construction and operational costs are not known at this point. A Final Schedule of Assessments will be prepared at the end of the project construction and start of operation.

Exercise of Powers

In accordance with state statutes section 66.0703 the Town of Dekorra is exercising its police powers to make this improvement, and on November 8, 2005 declared by preliminary resolution its intention to exercise these powers

Benefit

The Dekorra Utility District No. 1 Collection and Treatment System project will provide a special benefit to the affected properties separate and distinct from all other properties in the

Dekorra Post-Bid Anticipated Project Costs vs Available Funds

		As-Bid & As-Built	
Tier 1 (L.S. & FM)			
	Construction	$ 937,300	
	Construction Contingency	$ -	
	15% Legal, Engr.Admin.	$ 140,600	
	Total	**$ 1,078,000**	
Tier 1 (WWTP)			
	Construction	$ 2,042,500	
	Construction Contingency	$ 61,300	(3%)
	15% Legal, Engr.Admin.	$ 315,600	
	Land Purchase from DOT	$ 40,000	
	Total	**$ 2,459,000**	
Tier 2 (Core Collection)			
	Construction	$ 873,800	
	Construction Contingency	$ 5,000	
	15% Legal, Engr.Admin.	$ 131,800	
	Total	**$ 1,011,000**	
Tier 3A (West Side)			
	Construction	$ 326,700	
	Construction Contingency	$ -	
	15% Legal, Engr.Admin.	$ 49,000	
	Total	**$ 376,000**	
	ANTICIPATED CAPITAL COSTS:	**$ 4,924,000**	
Initial Startup and Operational System Expenses		**$ 79,000**	
	TOTAL ANTICIPATED '1st YEAR' PROJECT COSTS:	**$ 5,003,000**	
DEKORRA UTILITY DISTRICT AVAILABLE PROJECT FUNDS			
	Town of Dekorra Bond Anticipation Note:	$ 950,000	
	Town of Dekorra Bond Note:	$ 300,000	
	Town of Dekorra 2nd Bond Note:	$ 350,000	
	Dept. of Transportation (DOT) 70/30 Funding Match:	$ 3,495,735	
	Total Available Phase 1 Project Funding:	**$ 5,095,735**	
	Total Project (Tier 1,2,3A) Funding (Shortfall)/Surplus:	**$ 92,735**	
	Total Anticipated Assessments Generated:	**$ 1,445,172**	
	Utility District Assessed Capital Costs:	**$ 1,428,265**	

Contingencies are listed for each contract because each contract could have final adjustments to quantities, materials or actual work based on the actual project requirements. Some construction contingencies are reduced from 3% in the post-bid phase to 0.5% of the near-final contract price. Legal, Engineering and Administrative fees remain at 5% as a resonable estimate of the final costs for those three items. Final project costs will be based on final construction values plus actual contracted legal, engineering, financial and administrative fees.

DEKORRA U.D. #1 - SEWAGE COLLECTION & WASTEWATER TREATMENT SYSTEM COSTS

Based on Collection System & WWTF Bid and As-Built Quantities

Tier 2 Collection System - Gravity Sewer Serving "CORE AREA" U. D. Properties

	Item	No. of Units	Units		Unit Cost		Total Amount
1	Sanitary Sewer, 8-Inch PVC, Less Than 12' Deep	2,215	LF	$	68.00	$	150,620.00
2	Sanitary Sewer, 8-Inch PVC, Greater Than 12' Deep	4,349	LF	$	77.00	$	334,873.00
3	Sanitary Sewer, 8-Inch HDPE. Greater Than 12' Deep	155	LF	$	84.00	$	13,020.00
4	Directional Bore, 8-Inch HDPE	312	LF	$	96.00	$	29,952.00
5	Sanitary Sewer Manhole, 4-Ft. I.D.	345	VF	$	146.00	$	50,370.00
6	Manhole Frame and Cover with Interior Seal	26	Ea	$	595.00	$	15,470.00
7	Sanitary Sewer Outside Drop	5.65	VF	$	175.00	$	988.75
8	Sanitary Sewer Lateral, 6-Inch PVC	597.5	LF	$	39.00	$	23,302.50
9	Directional Bore, Sanitary Sewer Lateral, 6-Inch HDPE	708	LF	$	56.00	$	39,648.00
10	Driveway Restoration	450	SY	$	8.00	$	3,600.00
11	Asphalt Pavement Restoration	4,065	SY	$	44.00	$	178,839.76
12	Saw Cut Asphalt	627	LF	$	2.00	$	1,254.00
13	Silt Fence	1,392	LF	$	1.65	$	2,297.35
14	Ditch Checks	9	Ea	$	85.00	$	793.33
15	Erosion mat, Class 1, Type A	840	SY	$	1.80	$	1,512
16	Topsoil, Seed, and Mulch	1	LS	$	10,000.00	$	10,000.00
17	Tracer Wire for Sewer Service	1,306	LF	$	2.00	$	2,611.00
18	Traffic Control	1	LS	$	14,666.67	$	14,666.67
					Construction Subtotal:	$	873,800
					Contingencies Remaining	$	5,000
					Legal, Engineering, and Admin. Estimate (15%)	$	131,800
					"CORE AREA" Collection System Total:		**$1,011,000**
					DOT's Portion of "CORE AREA" Collection System Cost:		($501,995)
					Dekorra U.D. Portion of "CORE AREA" Collection System Cost:		**$509,005**

Remaining DOT Funds **$164,140**

Total DOT Contribution to Project:	$3,495,735
Subtotal of DOT's contribution toward Tier 1 and Tier 2 costs:	($3,331,595)
Remaining DOT funds available for "Other" Tier 2 Area Development:	**$164,140**
Dekorra U.D. Costs for Tier 1 and Tier 2:	**$1,216,405**

Based on Collection System Bid and As-Built Quantities

Tier 3A Collection System Expanded - Gravity Sewer Serving "WEST SIDE" U. D. Properties

	Item	No. of Units	Units		Unit Cost		Total Amount
1	Sanitary Sewer, 8-Inch PVC	4,476	LF	$	45.78	$	204,911.28
2	Directional Bore, 8-Inch HDPE	407	LF	$	73.60	$	29,955.20
3	Sanitary Sewer Manhole, 4-Ft. I.D.	129	VF	$	166.73	$	21,508.17
4	Manhole Frame and Cover with Interior Seal	15	Ea	$	580.02	$	8,700.30
5	Sanitary Sewer Lateral, 6-Inch	92	LF	$	42.12	$	3,875.04
6	Directional Bore, Sanitary Sewer Lateral, 6-Inch HDPE	0	LF	$	61.00	$	-
7	Silt Fence	1,750	Ea	$	1.12	$	1,960.00
8	Ditch Checks	9	Ea	$	89.60	$	806.40
9	Driveway Restoration	263	SY	$	4.91	$	1,291.33
10	Asphalt Pavement Restoration	0	SY	$	45.34	$	-
11	Saw Cut Asphalt	0	LF	$	3.00	$	-
12	Topsoil, Seed, and Mulch	1	LS	$	30,831.14	$	30,831.14
13	Traffic Control	1	LS	$	2,760.00	$	2,760.00
14	Clearing and Grubbing Sta. 300+60 to 334+25	1	LS	$	20,066.97	$	20,066.97
					Construction Subtotal:		$326,700
					Contingencies Remaining		$0
					Legal, Engineering, and Admin. Estimate (15%)		$49,000
					"West Side" Collection System Total:		**$376,000**
					DOT's Portion of "WEST SIDE" Collection System Cost:		($164,140)
					Dekorra U.D. Portion of "WEST SIDE" Collection System Cost:		**$211,860**

Was 1,600.

Remaining DOT Funds **$0**

DEKORRA U.D. #1 - SEWAGE COLLECTION & WASTEWATER TREATMENT SYSTEM COSTS

Based on Collection System & WWTF Bid and As-Built Quantities

Tier 1 Collection System - Lift Station & Interstate Forcemain to WWTF Site

	Item	No. of Units	Units	Unit Cost	Total Amount
1	AGVV Pump Station, Septage Sta.,Controls, Generator	1	Each	$ 170,000.00	$ 170,000
2	Lift Station No. 1 Wetwell	1	LS	$ 66,500.00	$ 66,500
3	Force Main, 10-Inch PVC or HDPE	10895	LF	$ 39.00	$ 424,905
4	Directional Bore, Force Main, 10-Inch HDPE	2320	LF	$ 63.00	$ 146,160
5	Trace Wire Terminal Box	8	Ea	$ 650.00	$ 5,200
6	Air Release Manhole	6	Ea	$ 4,850.00	$ 29,100
7	Silt Fence	2785	LF	$ 1.65	$ 4,595
8	Ditch Checks	19	Ea	$ 85.00	$ 1,587
9	Erosion mat, Class 1, Type A	1680	SY	$ 1.80	$ 3,024
10	Topsoil, Seed, and Mulch	1	LS	$ 20,000.00	$ 20,000
11	Traffic Control	1	LS	$ 29,333.33	$ 29,333
12	Electrical Service (3-Phase) & Natl Gas Allowance	1	LS	$ 25,500.00	$ 25,500
13	Combination Air Valve	1	LS	$ 400.00	$ 400
14	Shrubbery Replantings for Snow Drift along Interstate	861	Ea	$ 12.00	$ 10,332
15	Additional Depth for Forcemain per DOT Requirement	1	LS	$ 700.00	$ 700
				Construction Subtotal:	$ 937,300
				Contingencies Remaining	$ -
				Legal, Engineering, and Admin. Estimate (15%)	$ 140,600
				Collection System to WWTP (Tier 1) Total:	**$ 1,078,000**

Tier 1 Wastewater Treatment Facilities

	Item	No. of Units	Units	Unit Cost	Total Amount
1	Bonds and Insurance	1	LS	$ 19,000	$ 19,000
2	Site Work	1	LS	$ 245,000	$ 245,000
3	General Construction	1	LS	$ 1,260,500	$ 1,260,500
4	Electrical	1	LS	$ 382,000	$ 382,000
5	HVAC	1	LS	$ 35,000	$ 35,000
6	Plumbing	1	LS	$ 45,000	$ 45,000
7	Electrical Service (3-Phase) Allowance	1	LS	$ 50,000	$ 50,000
8	Yard Equipment and Tools Allowance	1	LS	$ 1,000	$ 1,000
9	Computer Allowance	1	LS	$ 5,000	$ 5,000
				Construction Subtotal:	$ 2,042,500
				Contingencies Estimate (3%)	$ 61,300
				Legal, Engineering, and Admin. Estimate (15%)	$ 315,600
				Land Purchase from DOT	$ 40,000
				Wastewater Treatment Facilities (Phase 1) Total:	**$ 2,459,000**
				Tier 1 Collection and WWTF Anticipated Project Costs Total:	**$ 3,537,000**
				DOT's 80% Portion of Collection and Wastewater Treatment Facilities Cost:	**($2,829,600)**
				Dekorra U.D. 20% Portion of Collection and Wastewater Treatment Facilities Cost:	**$ 707,400**

Remaining Initial 80/20 DOT Funds **$122,400**

GENERAL ASSESSMENT SCHEDULE FORMAT - Preliminary

WASTEWATER COLLECTION AND TREATMENT PROJECT
DEKORRA UTILITY DISTRICT NO. 1, TOWN OF DEKORRA, COLUMBIA COUNTY, WI

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GEC No. 1297-89

Date: January 3, 2007

CORE AREA CHARGES PER ACRE

CORE AREA BASE ASSESSMENT	As-Bid Total	As-Bid DOT Funds	As-Bid U.D. Funds
1 Wastewater Treatment Plant Cost (Phase 1):	$ 2,459,000	$ 1,967,200	$ 491,800
Acreage of Entire Utility District:		(No Wetlands Credit)	349.31
"Per Acre" Phase 1 WWTP Assessment:			**$ 1,408**
2 Tier 1 Transmission Facilities Costs: (Main Lift Station and Forcemain to WWTP)	$ 1,082,000	$ 865,600	$ 216,400
Acreage of Entire Utility District:			349.31
"Per Acre" Assessment for Tier 1 Sewers:			**$ 620**
CORE AREA BUSINESS HOOKUP ASSESSMENT			
3 Tier 2 (Core Area) Collection System Costs:	$ 1,010,000	$ 497,390	$ 512,610
65% of Tier 2 Assessed to Core Area		**65.00%**	$ 333,197
Acreage of Core Area:			138.13
"Per Acre" Charge to Core Area:			**$ 2,412**
4 Future WWTP Expansion Cost (Determined at time of upgrade):			$ -
Total Core Area Assessment and Hookup Charge Per Acre:			**$ 4,440**

DOT Matching Funds Expended so far:	$ 3,330,190
Remaining Available DOT Matching Funds for Sewer Extensions:	$ 165,545
	$ 3,495,735

GENERAL ASSESSMENT SCHEDULE FORMAT - Preliminary

WASTEWATER COLLECTION AND TREATMENT PROJECT
DEKORRA UTILITY DISTRICT NO. 1, TOWN OF DEKORRA, COLUMBIA COUNTY, WI

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GEC No. 1297-89

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WEST SIDE CHARGES PER ACRE

		As-Bid Total	As-Bid DOT Funds	U.D. (West)
WEST SIDE BASE ASSESSMENT				
1	Wastewater Treatment Plant Cost (Phase 1):			$ 491,800
	Acreage of Entire Utility District:			* 349.31
	Total "Per Acre" Phase 1 WWTP Assessment:			**$ 1,408**
2	Tier 1 Transmission Facilities Costs: (Main Lift Station and Forcemain to WWTP)			$ 216,400
	Acreage of Utility District:			* 349.31
	Total "Per Acre" Assessment for Tier 1 Sewers:			**$ 620**
WEST SIDE BUSINESS HOOKUP ASSESSMENT				
3	Tier 2 (Core Area) Collection System Costs:			$ 512,610
	35% of Tier 2 Costs - Assessed to East & West Sides:		35.0%	$ 179,414
	East and West Side Combined Acreages:		**	211.18
	"Per Acre" Charge to West Side:			**$ 850**
4	West Side Collection System Costs:	$ 378,000	$ 165,545	$ 212,455
	Assessible Acreage of West Side:		***	115.49
	"Per Acre" Charge to West Side:			**$ 1,840**
5	Future WWTP Expansion Cost (Determined at time of upgrade):			$ -
Total WEST Side Assessment and Hookup Charge Per Acre:				**$ 4,717**

Remaining Available DOT Matching Funds for Sewer Extensions: $ -

* U.D. acreage under this scenario gives NO credit for wetlands on Breed parcel.
** East & West Side Combined Acreage = total assessible U.D. acreage - Core Area acreage.
*** West Side acreage includes wetlands on Breed parcel.

GENERAL ASSESSMENT SCHEDULE FORMAT - Preliminary

WASTEWATER COLLECTION AND TREATMENT PROJECT
DEKORRA UTILITY DISTRICT NO. 1, TOWN OF DEKORRA, COLUMBIA COUNTY, WI

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GEC No. 1297-89

Date: January 3, 2007

EAST SIDE CHARGES PER ACRE

EAST SIDE BASE ASSESSMENT	Total	As-Bid DOT Funds	U.D. (East)
1 Wastewater Treatment Plant Cost (Phase 1):			$ 491,800
Acreage of Entire Utility District:			349.31
Total "Per Acre" Phase 1 WWTP Assessment:			**$ 1,408**
2 Tier 1 Transmission Facilities Costs: (Main Lift Station and Forcemain to WWTP)			$ 216,400
Acreage of Utility District:			349.31
Total "Per Acre" Assessment for Tier 1 Sewers:			**$ 620**
EAST SIDE BUSINESS HOOKUP ASSESSMENT			
3 Tier 2 (Core Area) Collection System Costs:			$ 512,610
35% of Tier 2 Costs - Assessed to East & West Sides:		**35.0%**	$ 179,414
East and West Side Combined Acreages:		**	211.18
"Per Acre" Charge to East Side:			**$ 850**
4 East Side Collection System Costs:	$ -	$ -	$ -
Assessible Acreage of East Side:			95.69
"Per Acre" Charge to East Side:			$ -
5 Future WWTP Expansion Cost (Determined at time of upgrade):			$ -
Total EAST Side Assessment and Hookup Charge Per Acre:			**$ 2,877**

Remaining Available DOT Matching Funds for Sewer Extensions: $ -

** East & West Side Combined Acreage = total assessible U.D. acreage - Core Area acreage.

GENERAL ASSESSMENT SCHEDULE FORMAT - Preliminary

WASTEWATER COLLECTION AND TREATMENT PROJECT
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GEC No. 1297-89
Date: January 3, 2007

CORE AREA - ANTICIPATED ASSESSMENT/HOOKUP CHARGES TO TYPICAL PROPERTY

	Tax Roll No.	Owner	Total Acreage	Zoning Description	Non Assessable Acreage	Assessable Acreage	TIER 1 COMMON ELEMENT ASSESSMENT	TIER 2 PROPORTIONAL CORE AREA ASSESSMENT	TOTAL ASSESSMENT	ESTIMATED ANNUAL USE CHARGE
	xxx	A	1.0	Commercial	0	1.0	$2,027	$2,412	$4,439	$202
	xxx	B	5.0	Commercial	0	5.0	$10,137	$12,061	$22,198	$1,010
	xxx	C	10.0	Commercial	0	10.0	$20,274	$24,121	$44,395	$2,020
	xxx	D	20.0	Commercial	0	20.0	$40,549	$48,243	$88,792	$4,040

WEST SIDE - ANTICIPATED ASSESSMENT/HOOKUP CHARGES TO TYPICAL PROPERTY

	Tax Roll No.	Owner	Total Acreage	Zoning Description	Non Assessable Acreage	Assessable Acreage	TIER 1 COMMON ELEMENT ASSESSMENT	TIER 2 PROPORTIONAL CORE AREA ASSESSMENT	TOTAL ASSESSMENT	ESTIMATED ANNUAL USE CHARGE
	xxx	Aw	1.0	Commercial	0	1.0	$2,027	$2,689	$4,716	$202
	xxx	Bw	5.0	Commercial	0	5.0	$10,137	$13,446	$23,583	$1,010
	xxx	Cw	10.0	Commercial	0	10.0	$20,274	$26,893	$47,167	$2,020
	xxx	Dw	20.0	Commercial	0	20.0	$40,549	$53,785	$94,334	$4,040

Initial Annual Usage Charge is based on the estimate of approximately $79,000/yr required to provide operation, maintenance and replacement funds for the WWTP. The DOT Rest Areas will be about 65% of the flows as of 2009. This equates to a U.D. cost of $28,000/year divided over the core area (138 Ac.) or $202/Ac/Year ±. Actual usage will be the best method of determining cost to the users. A Sewer Use Ordinance and User Charge Schedule based on individual business water meters will be utilized to determine the actual charge per customer. The District understands there may be some startup and operation cost shortfalls in the early years to cover.

GENERAL ASSESSMENT SCHEDULE FORMAT - Preliminary

WASTEWATER COLLECTION AND TREATMENT PROJECT
DEKORRA UTILITY DISTRICT NO. 1, TOWN OF DEKORRA, COLUMBIA COUNTY, WI

GENERAL ENGINEERING COMPANY
Consulting Engineers Since 1912
916 Silver Lake Drive
P.O. Box 340
Portage, WI 53901
608-742-2169
608-742-2592 Fax
gec@generalengineering.net

GEC No. 1297-89

Date: January 3, 2007

EAST SIDE - ANTICIPATED ASSESSMENT/HOOKUP CHARGES TO TYPICAL PROPERTY

	Tax Roll No.	Owner	Total Acreage	**Zoning** Description	Non Assessable Acreage	Assessable Acreage	TIER 1 COMMON ELEMENT ASSESSMENT	TIER 2 PROPORTIONAL CORE AREA ASSESSMENT	**TOTAL ASSESSMENT**	ESTIMATED ANNUAL USE CHARGE
	xxx	Ae	1.0	Commercial	0	1.0	$2,027	$850	$2,877	$202
	xxx	Be	5.0	Commercial	0	5.0	$10,137	$4,248	$14,385	$1,010
	xxx	Ce	10.0	Commercial	0	10.0	$20,274	$8,496	$28,770	$2,020
	xxx	De	20.0	Commercial	0	20.0	$40,549	$16,992	$57,541	$4,040

Initial Annual Usage Charge is based on the estimate of approximately $79,000/yr required to provide operation, maintenance and replacement funds for the WWTP. The DOT Rest Areas will be about 65% of the flows as of 2009. This equates to a U.D. cost of $28,000/year divided over the core area (138 Ac.) or $202/Ac/Year $\pm$.
Actual usage will be the best method of determining cost to the users. A Sewer Use Ordinance and User Charge Schedule based on individual business water meters will be utilized to determine the actual charge per customer. The District understands there may be some startup and operation cost shortfalls in the early years to cover.

ANTICIPATED ASSESSMENT CHARGES TO INDIVIDUAL PROPERTIES

The anticipated assessments to individual properties are based on actual project costs which follow the information listed below. Final project cost values and final assessments will be provided at the time of project completion which is expected to be in Mid 2007.

ASSESSMENT NOTES:

1 COMMON ELEMENT ASSESSMENT includes Main Lift Station, Transmission Main (Forcemain) and Wastewater Treatment Facilities. $2,027 /Acre

2 CORE AREA ASSESSMENT includes Core Area Gravity Sewage Collection System. 65% to Core $2,412 /Acre

35% to East and West $850 /Acre

3 WEST SIDE SEWER ASSESSMENT includes Gravity Sewage Collection System. $1,840 /Acre

4 EAST SIDE SEWER ASSESSMENT includes Gravity Sewage Collection System . $0 /Acre

5 SEWER LATERAL ASSESSMENTS are Charged to the Individual Parcels based on Actual Costs for that Area's Laterals. Core Area Lateral Assessment $2,800 /Lateral

West Side lateral Assessment $600 /Lateral

6 Commercial Parcels under 1 Acre will be Assessed for 1.0 Acre.

7 Residential Parcels will be Assessed for a 1 Acre Parcel Independent of the Actual Residential Parcel's Acreage.

							TIER 1	TIER 2	TIER 3		LATERALS		
Tax Roll No.	Owner	Zoning Description	Area	Total Acreage	Non-Assessable Acreage	Assessable Acreage	COMMON ELEMENT ASSESSMENT	PROPORTIONAL CORE AREA ASSESSMENT	WEST SIDE SEWER ASSESSMENT	EAST SIDE SEWER ASSESSMENT	CORE AREA LATERAL ASSESSMENT	WEST SIDE LATERAL ASSESSMENT	**TOTAL ASSESSMENT**
473.B	American Properties	Commercial	Core	2	0	2.00	$4,055	$4,824			$2,800		$8,879
&	7 Placa Santa Maria												
473.C	Henderson, NV 89011	Commercial	Core	1.25	0	1.25	$2,534	$3,015					$5,549
473.E	Poynette Development, LLC 4605 Dovetail Drive Madison, WI 53704	Commercial	Core	5.35	0	5.35	$10,847	$12,905					$23,752
473.F	Blosser Properties, LLC	Commercial	Core	1.15	0	1.15	$2,332	$2,774					$5,106
492.A3	W11089 W. Harmony Drive	Commercial	Core	2	0	2.00	$4,055	$4,824					$8,879
	Lodi, WI 53555	Residential		3.4	2.4	1.00	$2,027	$2,412			$2,800		$4,440
471.G3	Counihan, Graham J. & Dawn R. N2714 Wilson Road Poynette, WI 53955	Commercial	Core	1.05	0	1.05	$2,129	$2,533			$2,800		$4,662
471.02	Dream Acres Ceramics & Gifts, LLC 320 S. Main Street Poynette, WI 53955	Commercial	Core	1.068	0	1.07	$2,165	$2,576			$2,800		$4,741
473.D	Poynette Development, LLC 4605 Dovetail Drive Madison, WI 53704	Commercial	Core	2.94	0	2.94	$5,961	$7,092			$2,800		$13,052
492.A4	North Point Real Estate Investments, LLC 1809 Savannah Way Waunakee, WI 53597	Commercial	Core	6	0	6.00	$12,165	$14,473			$5,600		$29,437
492.A5	Lakepointe Holdings, LLC	Commercial	Core	1.67	0	1.67	$3,386	$4,028			$2,800		$7,414
&	555 W. Brown Deer Road												
492.A7	Fox Point, WI 53217	Commercial	Core	0.77	0	1.00	$2,027	$2,412			$2,800		$4,440
493.02	Faust, Michael R. N2828 Demynck Road Lodi, WI 53555	Commercial	Core	5.68	0	5.68	$11,516	$13,701			$2,800		$25,217
	Page Total			34	2	32	$65,198	$77,570	$0	$0	$28,000	$0	$145,568

							TIER 1	TIER 2	TIER 3		LATERALS		
Tax Roll No.	Owner	Zoning Description	Area	Total Acreage	Non-Assessable Acreage	Assessable Acreage	COMMON ELEMENT ASSESSMENT	PROPORTIONAL CORE AREA ASSESSMENT	WEST SIDE SEWER ASSESSMENT	EAST SIDE SEWER ASSESSMENT	CORE AREA LATERAL ASSESSMENT	WEST SIDE LATERAL ASSESSMENT	**TOTAL ASSESSMENT**
471.G4	Hahne, Richard F. N3489 CTH J Poynette, WI 53955	Commercial	Core	1	0	1.00	$2,027	$2,412			$2,800		$4,440
471.G5	Harmony Grove Trucking PO Box 617 Poynette, WI 53955	Commercial	Core	4.73	0	4.73	$9,590	$11,409			$8,400		$26,599
471 South Portion	Heintz, Harlow J. N3412 CTH J Poynette, WI 53955	Highway Interc	Core	17	0	17.00	$34,466	$41,006			$2,800		$75,473
492.1	Hickory Woods Dev. Co., Inc. 419 Sopha Court Poynette, WI 53955	Commercial	Core	17.21	0	17.21	$34,892	$41,513			$2,800		$76,405
471.E1,	Howe, Ronald J. (Neehah Springs)	Commercial	Core	1.79	0	1.79	$3,629	$4,318			$2,800		$7,947
471.E2, &	PO Box 103	Commercial	Core	1.25	0	1.25	$2,534	$3,015			$2,800		$5,549
471.G	Oxford, WI 53952	Commercial	Core	0.96	0	1.00	$2,027	$2,412			$2,800		$4,440
471.G2	JRC Investmens Corp. 105 Dearborn Beloit, WI 53511	Commercial	Core	2	0	2.00	$4,055	$4,824			$2,800		$8,879
492	Kaplan Living Trust	Commercial	Core	1.34	0	1.34	$2,717	$3,232			$2,800		$5,949
494	700 Front Street, Unit 2505	Commercial	Core	6.82	0	6.82	$13,827	$16,451			$2,800		$30,278
& 494.A	San Diego, CA 92101-6013	Commercial	Core	3.75	0	3.75	$7,603	$9,046			$2,800		$16,648
471.F	Larrabee, Mark J. E8638 CTH C North Freedom, WI 53951	Commercial	Core	3	0	3.00	$6,082	$7,236			$2,800		$13,319
492.A8	McDonalds Corp Missoula Mac, Inc. 5959 Haase Road DeForest, WI 53532	Commercial	Core	3.207	0	3.21	$6,502	$7,736			$2,800		$14,238
473..E1	Perry, Jerome 1224 E. Circle Dr. Beaver Dam, WI 53916	Commercial	Core	0.65	0	1.00	$2,027	$2,412			$2,800		$4,440
492.1A, &	RJWSW, LLC	Commercial	Core	7.27	0	7.27	$14,739	$17,536			$2,800		$32,276
492.1B	W9191 Cth CS			2.25	0	2.25	$4,562	$5,427			$2,800		$9,989
	Poynette, WI 53955												
471.D	Sopha, Alexander A. & Marilyn M. W8416 Bielke Road Poynette, WI 53955	Residential	Core	1	0	1.00	$2,027	$2,412			$2,800		$4,440
492.1C	Spahn, William H. II N3624 Sky High Road Poynette, WI 53955	Commercial	Core	4.13	0	4.13	$8,373	$9,962			$2,800		$18,335
473.A	Styre, Steven-John-Jolee & William Radonski 5414 North Shoreland Ave. Milwaukee, WI 53217	Commercial	Core	22.4	0	22.40	$45,415	$54,032			$2,800		$99,447
492.01 (Lot 4, CSM 2406)	Interstate Storage, LLC 6953 Midtown Road Madison, WI 53719-6013	Commercial	Core	4.128	0	4.13	$8,369	$9,957			$2,800		$18,327
	Page Total			106	0	106	$215,466	$256,350	$0	$0	$61,600	$0	$477,416

							TIER 1	TIER 2	TIER 3		LATERALS		
Tax Roll No.	Owner	Zoning Description	Area	Total Acreage	Non-Assessable Acreage	Assessable Acreage	COMMON ELEMENT ASSESSMENT	PROPORTIONAL CORE AREA ASSESSMENT	WEST SIDE SEWER ASSESSMENT	EAST SIDE SEWER ASSESSMENT	CORE AREA LATERAL ASSESSMENT	WEST SIDE LATERAL ASSESSMENT	**TOTAL ASSESSMENT**
492.A1 &	Town of Dekorra		Core	0.13	0	0.13	$264	$314					$577
492.A2	W8495 Cth JV		Core	0.36	0	0.36	$730	$868					$1,598
	Poynette, WI 53955												
	Sub-Page Total			0.49	0	0.49	$993	$1,182	$0	$0	$0	$0	$2,175
	CORE AREA Total			141	2	138.92	$281,657	$335,102	$0	$0	$89,600	$0	$625,159
475.A	Breed, Alan L. & Carol A.	Commercial	West	47.9854	0	47.99	$97,287	$40,768	$88,277				$226,333
	3582 E. Dreyson Rd.												
	McFarland, WI 53558-9776												
481	Elsing, Johna	Commercial	West	8.08	0	8.08	$16,382	$6,865	$14,865			$600	$38,111
&	W9509 CTH CS	Residential		1	0	1.00	$2,027	$850	$1,840			$600	$4,717
482	Poynette, WI 53955	Commercial	West	30	0	30.00	$60,823	$25,488	$55,190			$600	$141,501
482.A	Mom's Mini Warehouses, Inc.	Commercial	West	10.92	0	10.92	$22,140	$9,278	$20,089			$600	$51,506
	W9509 CTH CS- PO Box 43												
	Poynette, WI 53955												
474	Hansen, Michael A.	Commercial	West	17.5	0	17.50	$35,480	$14,868	$32,194			$600	$82,542
	N4129 Rory Road												
	Poynette, WI 53955												
	WEST SIDE Total			115	0	115.49	$234,139	$98,116	$212,455	$0	$0	$3,000	$544,710
490.02	Brokopp, Wesley B.	Commercial	East	26.74	0	26.74	$54,214	$22,718		$0		$0	$76,932
	N3056 Smokey Hollow Road												
	Poynette, WI 53955												
493.01	Faust, Michael R.	Residential	East	5.00	4	1.00	$2,027	$850		$0		$0	$2,877
	N2828 Demynck Road												
	Lodi, WI 53555												
491	Halvorsen, Roy G Jr & Gretchen M	Commercial	East	14.75	0	14.75	$29,905	$12,532		$0		$0	$42,436
	W9114 Cth CS												
	Poynette, WI 53955												
491.A1	Hoffman, Richard A. & Patricia A.	Residential	East	10.0	9	1.00	$2,027	$850		$0		$0	$2,877
	W9212 CTH CS	Commercial		10.0	0	10.00	$20,274	$8,496		$0		$0	$28,770
	Poynette, WI 53955												
490.01	Poynette Bowhunters Assoc., LTD	Commercial	East	35	0	35.00	$70,960	$29,736		$0		$0	$100,696
	PO Box 342												
	Poynette, WI 53955												
491.B	Thill, Maury J. & Debra E.	Residential	East	0.55	0	1.00	$2,027	$850		$0		$0	$2,877
	W9152 CTH CS												
	Poynette, WI 53955												
489	Roth, Joan M.	Commercial	East	6.2	0	6.20	$12,570	$5,267		$0		$0	$17,838
	W8947 CTH CS												
	Poynette, WI 53955												
	EAST SIDE Total			108	13	95.69	$194,005	$81,298	$0	$0	$0	$0	$275,303
	GRAND TOTAL			**364**	**15**	**350.10**	**$709,802**	**$514,516**	**$212,455**	**$0**	**$89,600**	**$3,000**	**$1,445,172**

APPENDIX C

UTILITY DISTRICT SEWER SERVICE CHARGE METHODOLOGY

APPENDIX C

USER CHARGE SYSTEM

Section 1 - Sewer Use and User Charge Ordinance

Appendix C, User Charge System, is herewith made a part of Section 7.04(i) - Sewer Service Charges" of the Sewer Use and User Charge Ordinance, Dekorra Utility District No. 1, Town of Dekorra, Columbia County, WI.

Section 2 - User Charges

The user charges shall consist of a minimum monthly billing for Debt Retirement and a unit charge per volume of water used as per section (i)(6) of the Sewer Use Ordinance.

Section 3 - Review

The User Charge System shall be reviewed not less than annually to adjust the user charges to reflect the actual number of users and actual costs.

Section 4 - Methodology

This section outlines the methodology for determining the monthly sewer use charges. The calculations noted below have been made using estimated current number of users and anticipated costs. This methodology is will determine user costs based on the actual number of users and actual cost for the time under consideration. The calcualations must be updated at least annually based on most accurate data available.

MONTHLY BILLING CALCULATION

ANNUAL COST ITEMS		COSTS
Operation, Maintenance and Replacement Billing		
Annual System Operation, Maintenance & Replacement Cost (See Attached Chart)		$84,049
	TOTAL OM&R COSTS:	$84,049
Total Quarterly Cost:		$21,012
Volume of Sewage Metered per Quarter:	3,650,000 gallons (Estimated)	
Utility District Variable Charge Per 1,000 Gallons:		$ 4.13
DOT Rest Area Variable Charge Per 1,000 Gallons:		$ 6.30
Commercial Base Charge Per Quarter Includes 2 REUs per Metered Connection:		$ 188.45
Residential Base Charge Per Quarter Includes 1 REU per Metered Connection:		$ 94.23

MONTHLY BILLING CALCULATION

ANNUAL COST ITEMS	COSTS	COSTS
Debt Retirement Billing		
Annual System Debt Retirement Cost (See Attached Charts) **	$0	$0 **
TOTAL DEBT RETIREMENT COSTS:	$0	$0

** Interest, other fixed finance costs and final construction costs will be evaluated in 2007 to determine necessary adjustments.

TABLE 1: RESIDENTIAL EQUIVALENT UNITS CALCULATION

		Customer Class	Assessable Acres Per Customer	REUs Per Acre	Total REUs	2009 REUs	2007 REUs	2007 Metered Connections
		Residential *						
492.A3	1	Blosser Properties, LLC	1		1			
481	2	Elsing, Johna	1		1			
471.D	3	Sopha, Alexander & Marilyn	1		1	1	1	1
		Total Residential REUs:			3.00	1.00	1.00	1.00
		Commercial *						
473.B & 473.C	4	American Properties	3.25	2	6.50	6.50	6.50	1
473.E	5	Poynette Development, LLC	5.35	2	10.70	10.70	10.70	1
473.F	6	Blosser Properties, LLC	3.15	2	6.30			
475.A	7	Breed, Alan & Carol	47.99	2	95.97			
471.G3	8	Counihan, Graham & Dawn	1.05	2	2.10	2.10	2.10	1
471.02	9	Dream Acres Ceramics & Gifts, LLC	1.07	2	2.14	2.14	2.14	1
473.D	10	Poynette Development, LLC	2.94	2	5.88	5.88	5.88	1
492.A4	11	North Point Real Estate Inv., LLC	6	2	12.00	12.00	12.00	1
492.A5 & 492.A7	12	Lakepointe Holdings, LLC	2.44	2	4.88	4.88	4.88	1
481 & 482	13	Elsing, Johna	38.08	2	76.16			
493.02	14	Faust, Michael	5.68	2	11.36			
471.G4	15	Hahne, Richard	1	2	2.00	2.00	2.00	1
471.G5	16	Harmony Grove Trucking	4.73	2	9.46	9.46	9.46	1
471	17	Heintz, Harlow	17	2	34.00			
492.1	18	Hickory Woods Dev. Co., Inc	17.21	2	34.42			
471.E1, 471.E2 & 471.G	19	Howe, Ronald (Neenah Springs)	4.00	2	8.00	1.79	1.79	1
492.01	20	Interstate Storage, LLC	4.13	2	8.26	8.26	8.26	1
471.G2	21	JRC Investments Corp.	2	2	4.00	4.00	4.00	1
492, 494 & 494.A	22	Kaplan Living Trust	11.91	2	23.82			
471.F	23	Larrabee, Mark	3	2	6.00			
492.A8	24	McDonalds Corp	3.21	2	6.41	6.41	6.41	1
482.A	25	Mom's Mini Warehouses, Inc.	10.92	2	21.84			
474	26	Hansen, Michael	17.5	2	35.00			
473.E1	27	Perry, Jerome	0.65	2	1.00	1.00	1.00	1
492.1A & 492.1B	28	RJWSW, LLc	9.52	2	19.04	7.27	7.27	1
492.1C	29	Spahn, William	4.13	2	8.26	8.26	8.26	1
473.A	30	Styre, S & J; J & W Radonski	22.4	2	44.80			
492.A1 & 492.A2	31	Town of Dekorra	0.49	0	0.00			
		Total Commercial REUs:			500.30	92.65	92.65	16

Customer Class	Assessable Acres Per Customer	REU Per Acre	Total R E U	2009 REUs	2007 REUs	
Public						
	0	0	0			
		Total Public REUs:	0.00	0	0	
Subtotal - Utility District REUs						
	0	0	0			
		Total Utility District REUs:	503.30	93.65	93.65	
Industrial	2015 Design Flow (GPD)	GPD per REU				
DOT Safety Rest Areas 11 & 12	50,000	250	200.0	120.00		
		Total Industrial REUs:	200.0	120.00	0.00	
		Total REUs:	703.30	213.65	93.65	
Annual Debt Retirement Per REU: **				$0	$0	**
Monthly Debt Retirement Per REU: **				$0	$0	**

One Residential Equivalent Unit (REU) is established as 250 gallons per day (gpd) of domestic strength wastewater. Commercial property has been allotted 500 gpd per acre wastewater flow or two REUs per acre. The user charge system will include a base quarterly charge per metered connection of two REUs (500gpd) or 45,625 gal/quarter.

** Interest, other fixed finance costs and final construction costs will be evaluated in 2007 to determine if debt retirement adjustments are necessary beyond the established assessments.

USER CHARGE SYSTEM BACKGROUND INFORMATION

DEKORRA UTILITY DISTRICT NO. 1

Based on 2007 Estimated Values

Description

Schedule 1
Rate of Return 5.00%

Schedule 3
Project Bond Loan Interest Rat 5.50%

Payment Period 20 years

Schedule 4

	Flow mgd	BOD ppd	SS ppd	Ammonia ppd
Anticipated 2007-2008 Wastewater Loadings				
Dekorra U.D.	10,000	21	21	2
DOT Rest Areas	0	0	0	0
Total WWTP	10,000	21	21	2
2009 Wastewater Loadings				
Dekorra U.D.	10,000	21	21	2
DOT Rest Areas	30,000	133	208	11
Total WWTP	40,000	153	229	13

Schedule 7A

	Dekorra U.D.	DOT Rest Areas	WWTP
REUs - 2007 & 2008	93.65	0.0	93.6
REUs - 2009	93.65	120.0	213.6

The 2007, 2008 and 2009 REU values are estimates and will be evaluated at the time of system startup and at the end of each year in anticipation of the following year's user charge adjustments.

Schedule 1

DEKORRA U.D. - REPLACEMENT FUND CALCULATION

Mar-07

Description	Replacement Costs 5 Yr.	10 Yr.	15 Yr.	20 Yr.	Sinking Fund Annuity	Attributing Factors: Flow %	Flow ($)	BOD %	BOD ($)	TSS %	TSS ($)	AMMONIA %	AMMONIA ($)
Item 1 - Collection System	$ -	$ 2,000	$ -	$ 2,000	$ 219	100	$ 219	0	$ -	0	$ -	0	$ -
Item 2 - Main Lift Station													
Submersible Sewage Pump Station	$ -	$ 4,000	$ 2,000	$ 20,000	$ 1,015	100	$ 1,015	0	$ -	0	$ -	0	$ -
Flow meter		$ 500	$ -	$ 5,000	$ 191	100	$ 191		$ -		$ -		$ -
Standby Generator		$ 500	$ 500	$ 5,000	$ 214	100	$ 214		$ -		$ -		$ -
Item 3 - WWTP Headworks													
Mecanical Bar Screen (Future)	$ -	$ -	$ -	$ -	$ -	80	$ -	10	$ -	10	$ -	0	$ -
Item 4 - Sequencing Batch Reactor													
Decanters (2)		$ 1,000		$ 5,000	$ 231	100	$ 231		$ -		$ -		$ -
Elect. Air Valves (2)	$ -	$ 500	$ 500	$ 2,000	$ 123	0	$ -	70	$ 86	20	$ 25	10	$ 12
Waste Sludge Pumps (4)	$ -	$ 500	$ 500	$ 5,000	$ 214	0	$ -	20	$ 43	60	$ 128	20	$ 43
Submersible Mixers (2)	$ -	$ 500	$ 500	$ 5,000	$ 214	0	$ -	70	$ 150	20	$ 43	10	$ 21
Aeration Diffusers	$ 500	$ 1,000	$ 2,000	$ 5,000	$ 414	0	$ -	70	$ 290	20	$ 83	10	$ 41
D.O. Analyzer	$ -	$ 500	$ 500	$ 10,000	$ 365	0	$ -	70	$ 256	20	$ 73	10	$ 37
Flow Meters (3)		$ 1,500	$ -	$ 15,000	$ 573	0	$ -	20	$ 115	60	$ 344	20	$ 115
Samplers (2)		$ 500	$ -	$ 10,000	$ 342	40	$ 137	40	$ 137	10	$ 34	10	$ 34
Item 5 - Seepage Cells	$ -	$ -	$ -	$ 1,000	$ 30	70	$ 21	10	$ 3	10	$ 3	10	$ 3
Item 6 - Sludge Storage Tank		$ 500	$ -	$ 1,000	$ 70	0	$ -	20	$ 14	60	$ 42	20	$ 14
Item 7 - Service Building													
PD Aeration Blowers (2)	$ -	$ 1,000	$ 1,000	$ 20,000	$ 731	0	$ -	70	$ 511	20	$ 146	10	$ 73
Standby Generator		$ 500	$ 500	$ 5,000	$ 214	10	$ 21	60	$ 128	20	$ 43	10	$ 21
Lab Equipment	$ 200	$ 500	$ 200	$ 2,000	$ 146	10	$ 15	60	$ 87	20	$ 29	10	$ 15
Miscellaneous Equipment		$ 1,000		$ 1,000	$ 110	30	$ 33	30	$ 33	30	$ 33	10	$ 11
Item 8 - Miscellaneous													
Electrical and Instrumentation	$ 2,000	$ 5,000	$ 2,000	$ 25,000	$ 1,608	30	$ 482	30	$ 482	20	$ 322	20	$ 322
Telemetry System	$ 200	$ 200	$ 200	$ 2,000	$ 122	70	$ 85	10	$ 12	10	$ 12	10	$ 12
Piping & Valves		$ 2,000		$ 2,000	$ 219	40	$ 88	20	$ 44	20	$ 44	20	$ 44
Monitoring Wells		$ 200		$ 200	$ 22	10	$ 2	25	$ 5	25	$ 5	40	$ 9
Expense Totals	$ 2,900	$ 23,900	$ 10,400	$ 148,200	$ 7,388	34%	$ 2,536	32%	$ 2,397	19%	$ 1,409	11%	$ 827
Sinking Fund Annuity Totals	$ 525	$ 1,900	$ 482	$ 4,482	$ 7,388								
Sinking Fund Factor @ 5% Rate of Return	0.18097	0.0795	0.04634	0.03024									

Present Worth of 20 Annual Replacement Fund Payments @ 5% Rate of Return (PW Factor = 12.462) is: $ 92,074

SCHEDULE 2

ALLOCATION OF COLLECTION SYSTEM & WWTP OPERATION, MAINTENANCE, AND REPLACEMENT COSTS

Mar-07

LONG-TERM O,M&R COSTS

Description	Annual Costs	Attributing Factors							
		Flow		BOD		TSS		Ammonia	
		%	($)	%	($)	%	($)	%	($)
ADMINISTRATIVE EXPENSE									
Clerk Salary	$ 3,000	50%	$ 1,500	20%	$ 600	20%	$ 600	10%	$ 300
Payroll Taxes - Admin.	$ 230	50%	$ 115	20%	$ 46	20%	$ 46	10%	$ 23
Office Supplies & Expenses	$ 50	50%	$ 25	20%	$ 10	20%	$ 10	10%	$ 5
Office Equipment	$ 100	50%	$ 50	20%	$ 20	20%	$ 20	10%	$ 10
Outside Services - Engr	$ 3,000	50%	$ 1,500	20%	$ 600	20%	$ 600	10%	$ 300
Outside Services - Legal	$ 2,000	50%	$ 1,000	20%	$ 400	20%	$ 400	10%	$ 200
Outside Services - Auditing	$ 500	50%	$ 250	20%	$ 100	20%	$ 100	10%	$ 50
Outside Services - Misc	$ 500	50%	$ 250	20%	$ 100	20%	$ 100	10%	$ 50
Insurance Expense	$ 5,000	50%	$ 2,500	20%	$ 1,000	20%	$ 1,000	10%	$ 500
Employee Benefits	$ 3,900	50%	$ 1,950	20%	$ 780	20%	$ 780	10%	$ 390
Misc. General Expense	$ 200	50%	$ 100	20%	$ 40	20%	$ 40	10%	$ 20
Interest Expense	$ -	50%	$ -	20%	$ -	20%	$ -	10%	$ -
OPERATING EXPENSE									
Operator Salary	$ 20,800	50%	$ 10,400	20%	$ 4,160	20%	$ 4,160	10%	$ 2,080
Assistant Operator Wage	$ 10,000	50%	$ 5,000	20%	$ 2,000	20%	$ 2,000	10%	$ 1,000
Payroll Taxes - O,M&R	$ 2,400	50%	$ 1,200	20%	$ 480	20%	$ 480	10%	$ 240
Power - WWTP	$ 6,500	20%	$ 1,300	30%	$ 1,950	25%	$ 1,625	25%	$ 1,625
Power - Main Lift Station	$ 1,000	100%	$ 1,000	0%	$ -	0%	$ -	0%	$ -
Operating Supplies	$ 1,000	50%	$ 500	20%	$ 200	20%	$ 200	10%	$ 100
Outside Services - Lab Tests	$ 8,000	20%	$ 1,600	30%	$ 2,400	25%	$ 2,000	25%	$ 2,000
Telephone	$ 500	50%	$ 250	20%	$ 100	20%	$ 100	10%	$ 50
Vehicle Expense - Fuel	$ 2,500	50%	$ 1,250	20%	$ 500	20%	$ 500	10%	$ 250
Vehicle Expense - Maintenanc	$ -	50%	$ -	20%	$ -	20%	$ -	10%	$ -
Collection System Maintenanc	$ 500	100%	$ 500	0%	$ -	0%	$ -	0%	$ -
WWTP Maintenance	$ 5,000	50%	$ 2,500	20%	$ 1,000	20%	$ 1,000	10%	$ 500
Drive and Field Maintenance	$ 200	50%	$ 100	20%	$ 40	20%	$ 40	10%	$ 20
Emergency Pumping Expense	$ -	100%	$ -	0%	$ -	0%	$ -	0%	$ -
Annual Costs	$ 76,880	45%	$ 34,840	21%	$ 16,526	21%	$ 15,801	13%	$ 9,713

SHORT-TERM STARTUP O,M&R COSTS

Description	Annual Costs	Attributing Factors							
		Flow		BOD		TSS		Ammonia	
		%	($)	%	($)	%	($)	%	($)
ADMINISTRATIVE EXPENSE									
Clerk Salary	$ 3,000	50%	$ 1,500	20%	$ 600	20%	$ 600	10%	$ 300
Payroll Taxes - Admin.	$ 230	50%	$ 115	20%	$ 46	20%	$ 46	10%	$ 23
Office Supplies & Expenses	$ 50	50%	$ 25	20%	$ 10	20%	$ 10	10%	$ 5
Office Equipment	$ 100	50%	$ 50	20%	$ 20	20%	$ 20	10%	$ 10
Outside Services - Engr	$ 3,000	50%	$ 1,500	20%	$ 600	20%	$ 600	10%	$ 300
Outside Services - Legal	$ 2,000	50%	$ 1,000	20%	$ 400	20%	$ 400	10%	$ 200
Outside Services - Auditing	$ 500	50%	$ 250	20%	$ 100	20%	$ 100	10%	$ 50
Outside Services - Misc	$ -	50%	$ -	20%	$ -	20%	$ -	10%	$ -
Insurance Expense	$ 5,000	50%	$ 2,500	20%	$ 1,000	20%	$ 1,000	10%	$ 500
Employee Benefits	$ 2,700	50%	$ 1,350	20%	$ 540	20%	$ 540	10%	$ 270
Misc. General Expense	$ 200	50%	$ 100	20%	$ 40	20%	$ 40	10%	$ 20
Interest Expense	$ -	50%	$ -	20%	$ -	20%	$ -	10%	$ -
OPERATING EXPENSE									
Operator Salary	$ 20,800	50%	$ 10,400	20%	$ 4,160	20%	$ 4,160	10%	$ 2,080
Assistant Operator Wage	$ -	50%	$ -	20%	$ -	20%	$ -	10%	$ -
Payroll Taxes - O,M&R	$ 1,600	50%	$ 800	20%	$ 320	20%	$ 320	10%	$ 160
Power - WWTP	$ 4,500	20%	$ 900	30%	$ 1,350	25%	$ 1,125	25%	$ 1,125
Power - Main Lift Station	$ 400	100%	$ 400	0%	$ -	0%	$ -	0%	$ -
Operating Supplies	$ 200	50%	$ 100	20%	$ 40	20%	$ 40	10%	$ 20
Outside Services - Lab Tests	$ 6,000	20%	$ 1,200	30%	$ 1,800	25%	$ 1,500	25%	$ 1,500
Telephone	$ 200	50%	$ 100	20%	$ 40	20%	$ 40	10%	$ 20
Vehicle Expense - Fuel	$ 700	50%	$ 350	20%	$ 140	20%	$ 140	10%	$ 70
Vehicle Expense - Maintenanc	$ -	50%	$ -	20%	$ -	20%	$ -	10%	$ -
Collection System Maintenanc	$ -	100%	$ -	0%	$ -	0%	$ -	0%	$ -
WWTP Maintenance	$ 500	50%	$ 250	20%	$ 100	20%	$ 100	10%	$ 50
Drive and Field Maintenance	$ 200	50%	$ 100	20%	$ 40	20%	$ 40	10%	$ 20
Emergency Pumping Expense	$ -	100%	$ -	0%	$ -	0%	$ -	0%	$ -
Annual Costs	$ 51,880	30%	$ 22,990	15%	$ 11,346	14%	$ 10,821	9%	$ 6,723

SCHEDULE 3

COLLECTION SYSTEM & WWTP DEBT RETIREMENT CALCULATION

Mar-07

Description	Capital Cost	Attributing Factors							
		Flow		BOD		TSS		Ammonia	
		%	($)	%	($)	%	($)	%	($)
Wasteater Collection System									
Core Area - Tier 1	$ 937,300	100%	$ 937,300	0%	$ -	0%	$ -	0%	$ -
Core Area - Tier 2	$ 873,800	100%	$ 873,800	0%	$ -	0%	$ -	0%	$ -
West Side - Tier 3	$ 326,700	100%	$ 326,700	0%	$ -	0%	$ -	0%	$ -
Subtotal Construction	$ 2,137,800								
Construction Contingencies	$ 5,000	100%	$ 5,000	0%	$ -	0%	$ -	0%	$ -
Collection System Total	$ 2,142,800								
Wastewater Treatment Facilities - Tier 1									
1 Indirect Costs	$ 269,300	25%	$ 67,325	35%	$ 94,255	20%	$ 53,860	20%	$ 53,860
2 Site Work & Yard Piping	$ 295,900	25%	$ 73,975	35%	$ 103,565	20%	$ 59,180	20%	$ 59,180
3 Concrete and Precast	$ 316,400	25%	$ 79,100	35%	$ 110,740	20%	$ 63,280	20%	$ 63,280
4 Masonry	$ 42,000	25%	$ 10,500	35%	$ 14,700	20%	$ 8,400	20%	$ 8,400
5 Metals	$ 23,000	25%	$ 5,750	35%	$ 8,050	20%	$ 4,600	20%	$ 4,600
6 Wood and Plastics	$ 14,500	25%	$ 3,625	35%	$ 5,075	20%	$ 2,900	20%	$ 2,900
7 Thermal/Moisture	$ 11,900	25%	$ 2,975	35%	$ 4,165	20%	$ 2,380	20%	$ 2,380
8 Doors and Windows	$ 13,700	25%	$ 3,425	35%	$ 4,795	20%	$ 2,740	20%	$ 2,740
9 Finishes	$ 30,600	25%	$ 7,650	35%	$ 10,710	20%	$ 6,120	20%	$ 6,120
10 Specialties	$ 1,200	25%	$ 300	35%	$ 420	20%	$ 240	20%	$ 240
11 Equipment	$ 515,300	20%	$ 103,060	30%	$ 154,590	25%	$ 128,825	25%	$ 128,825
12 Furnishings	$ 11,900	25%	$ 2,975	35%	$ 4,165	20%	$ 2,380	20%	$ 2,380
13 Special Construction	$ 22,300	25%	$ 5,575	35%	$ 7,805	20%	$ 4,460	20%	$ 4,460
14 Conveying Systems	$ -								
15 Mechanical	$ 162,500	25%	$ 40,625	35%	$ 56,875	20%	$ 32,500	20%	$ 32,500
15 Plumbing	$ 21,000	25%	$ 5,250	35%	$ 7,350	20%	$ 4,200	20%	$ 4,200
15 HVAC	$ 28,000	25%	$ 7,000	35%	$ 9,800	20%	$ 5,600	20%	$ 5,600
16 Electrical	$ 465,000	20%	$ 93,000	30%	$ 139,500	25%	$ 116,250	25%	$ 116,250
Allowances	$ 56,000	25%	$ 14,000	35%	$ 19,600	20%	$ 11,200	20%	$ 11,200
Lift Station #1	$ (170,000)	100%	$ (170,000)	0%	$ -	0%	$ -	0%	$ -
Lift Station #2	$ (88,000)	100%	$ (88,000)	0%	$ -	0%	$ -	0%	$ -
Subtotal Construction	$ 2,042,500								
Contingencies etc. (3%)	$ 61,300	25%	$ 15,325	35%	$ 21,455	20%	$ 12,260	20%	$ 12,260
WWTP Land Purchase	$ 40,000	25%	$ 10,000	35%	$ 14,000	20%	$ 8,000	20%	$ 8,000
WWTP Construction Total	$ 2,143,800								

Description	Capital Cost	Attributing Factors							
		Flow		BOD		TSS		Ammonia	
		%	($)	%	($)	%	($)	%	($)
Engr., Legal, Admin.	$ 661,000	58%	$ 383,380	18%	$ 118,980	12%	$ 79,320	12%	$ 79,320
Project Total	$ 4,947,600	57.0%	$ 2,819,615	18.4%	$ 910,595	12.3%	$ 608,695	12.3%	$ 608,695
DOT Payment	$ (3,495,735)	57.0%	$ (1,992,204)	18.4%	$ (643,382)	12.3%	$ (430,074)	12.3%	$ (430,074)
UD Assessments	$ (1,451,865)	57.0%	$ (827,411)	18.4%	$ (267,213)	12.3%	$ (178,621)	12.3%	$ (178,621)
Project Total	$ -	57.0%	$ -	18.4%	$ -	12.3%	$ -	12.3%	$ -
Annual Pmt, Incl. Interest	$0	57.0%	$0	18.4%	$0	12.3%	$0	12.3%	$0
Annual Payment Factor for Calculation of 20 year Loan at 5.5% Interest Rate					0.0837				

SCHEDULE 4

WWTP FLOW AND LOADING PARAMETERS

Mar-07

Community	Parameter	2007/2008	2009	09 Daily Average	Annual Totals Total	Annual Totals Units
Dekorra U.D.						
	Flow (gpd)	10,000	10,000	10,000	3,650	x1000 gal
	BOD (ppd)	21	21	21	7,610	lb
	TSS (ppd)	21	21	21	7,610	lb
	Ammonia (ppd)	2	2	2	731	lb
DOT Rest Areas						
	Flow (gpd)	0	30,000	30,000	10,950	x1000 gal
	BOD (ppd)	0	133	133	48,401	lb
	TSS (ppd)	0	208	208	75,798	lb
	Ammonia (ppd)	0	11	11	4,110	lb
WWTP Total						
	Flow (gpd)	10,000	40,000	40,000	14,600	x1000 gal
	BOD (ppd)	21	153	153	56,011	lb
	TSS (ppd)	21	229	229	83,408	lb
	Ammonia (ppd)	2	13	13	4,840	lb

SCHEDULE 5

DEBT RELATED FIXED CHARGE ALLOCATION

Mar-07

	Debt Annual Cost (Sch 3)	REUs (Input Sheet)	Annual Fixed Charge Per REU
WWTP & Collection System	$ -	213.6	$ -

Debt Retirement is resolved through Assessments.

SCHEDULE 6A

VARIABLE CHARGES FOR WWTP REPLACEMENT COSTS

Mar-07

Parameter	WWTP Loading (Sch 4)		Replacement Costs Sch 1	Variable Charges Cost	Per
Flow	14,600	x 1000 gal	$ 2,536	$ 0.17	x 1000 gal
BOD	56,011	lb	$ 2,397	$ 0.04	lb
TSS	83,408	lb	$ 1,409	$ 0.02	lb
Ammonia	4,840	lb	$ 827	$ 0.17	lb

SCHEDULE 6B

VARIABLE CHARGES FOR WWTP O & M COSTS

Mar-07

Parameter	WWTP Loading (Sch 4)		O & M Costs Sch 2A	Variable Charges Cost	Per
Flow	14,600	x 1000 gal	$ 34,840	$ 2.39	x 1000 gal
BOD	56,011	lb	$ 16,526	$ 0.30	lb
TSS	83,408	lb	$ 15,801	$ 0.19	lb
Ammonia	4,840	lb	$ 9,713	$ 2.01	lb

SCHEDULE 7A

COST ALLOCATION OF FIXED CHARGES

Mar-07

	Debt Annual Cost	Dekorra U.D.		DOT Rest Areas	
		REU	Charge/REU	REU	Charge/REU
WWTP & Collection System (Sch 5)	$ -	93.65	$ -	120	$ -
Total Debt			$ -		$ -

SCHEDULE 7B

DISTRICT COST ALLOCATION OF VARIABLE CHARGES

Mar-07

	Variable Charge Sch 6A&B	Dekorra U.D. Quantity Sch 4	Dekorra U.D. Cost	DOT Rest Areas Quantity Sch 4	DOT Rest Areas Cost
Replacement Costs					
Flow	$ 0.17	3,650	$ 634	10,950	$ 1,902
BOD	$ 0.04	7,610	$ 326	48,401	$ 2,072
TSS	$ 0.02	7,610	$ 129	75,798	$ 1,280
Ammonia	$ 0.17	731	$ 125	4,110	$ 702
Subtotal			**$ 1,213**		**$ 5,956**
O & M Costs					
Flow	$ 2.39	3,650	$ 8,710	10,950	$ 26,130
BOD	$ 0.30	7,610	$ 2,245	48,401	$ 14,281
TSS	$ 0.19	7,610	$ 1,442	75,798	$ 14,359
Ammonia	$ 2.01	731	$ 1,466	4,110	$ 8,247
Subtotal OM&R			**$ 13,863**		**$ 63,017**

SCHEDULE 8A

COST ALLOCATION SUMMARY

Mar-07

Cost Description	Dekorra U.D.	DOT Rest Areas	Annual Subtotals	Capital Cost
Debt Retirement				
WWTP (Sch 7A)	$ -	$ -	$ -	$ -
% of Total Annual Capital Debt Costs	#DIV/0!	#DIV/0!	#DIV/0!	
OM&R Costs				
Replacement (Sch 7B)	$ 1,213	$ 5,956	$ 7,169	
O & M Costs (Sch 7B)	$ 13,863	$ 63,017	$ 76,880	
Total Annual Cost	$ 15,076	$ 68,973	$ 84,049	
% of Total Annual Costs	17.9%	82.1%	100%	

Interest Rate	5.50%
Payment Period	20 Years
Annual Payment Factor	0.0837

SHARING OF CAPITAL COST OF THE PROJECT

Cost Description	Dekorra U.D.	DOT Rest Areas	Total
Capital Cost	$ -	$ -	$ -

ESTIMATED USER CHARGE RATES

Cost Description	Dekorra U.D.	DOT Rest Areas	Total
Total Annual Costs	$ 15,076	$ 68,973	$ 84,049
Est. Quarterly User Charge	$ 3,769	$ 17,243	$ 21,012
Est. Monthly User Charge	$ 1,256	$ 5,748	$ 7,004

SCHEDULE 8B

DEKORRA U.D. USER CHARGE SYSTEM FORMAT CALCULATION

Mar-07

User Charge Description	Dekorra U.D.	DOT Rest Areas	Total
Commercial Base Charge per Metered Connection*	$ 188.45	/Quarter (includes 2 REUs of flow)	
Residential Base Charge per Metered Connection*	$ 94.23	/Quarter (includes 1 REU of flow)	
UD Variable Charge/1000 Gallons	$ 4.13	$ 6.30	/1000 Gallons
Est. 2009 Annual Sewer Usage (x 1000 gallons)	3,650	10,950	14,600
Connection Fee Charge		per Additional REU above Allowable	
Annual Base Charge Revenue	$ 12,438	$ -	
Annual Variable Charge Revenue	$ 2,638	$ 68,973	
Anticipated Connection Fee Revenue	$ -	$ -	
Total Est. Revenue at Current Rates	$ 15,076	$ 68,973	

Total UD Est. Annual Cost	$ 84,049	
Coverage:	100%	

	Dekorra U.D.	DOT Rest Areas	
Proposed Variable Rate	**$ 4.13**	**$ 6.30**	**/1000 Gallons**

* Base Charge per Commercial Metered Connection includes fee for 2 REUs (500 gpd) 45,625 Gallons/Quarter

* Base Charge per Residential Metered Connection includes fee for 1 REU (250 gpd) 22,813 Gallons/Quarter

SCHEDULE 9

HOLDING TANK WASTE DISPOSAL CHARGE

Mar-07

Holding Tank Waste Disposal Charges are derived from the District's User Charge Calculations and Applied to the Typically Higher Strength Wastes. The Waste Strengths Noted are Typical for Each Type of Waste.

Total Annual Debt Retirement for WWTP per Schedule 5:	$	-	
Total Annual WWTP Flow per Schedule 4:		14,600	x1000 gal
Fixed Charge for Septage and Holding Tank Wastes:	**$**	**-**	**($25 annual filing fee)**

HOLDING TANK WASTE

	Waste Concentration Parameters	Waste Loading Parameters	Variable Chgs (Sch 6B&C)	Fixed Chg (Sch 9)	Total Unit Charges	Total Costs
Flow	1000 gallons	1.0 x 1000 gal	$ 2.56	$ -	$ 2.56	$ 2.56
BOD	600 mg/l	5.0 lbs	$ 0.34	$ -	$ 0.34	$ 1.69
TSS	1000 mg/l	8.3 lbs	$ 0.21	$ -	$ 0.21	$ 1.72
Ammonia	24 mg/l	0.2 lbs	$ 2.18	$ -	$ 2.18	$ 0.44
		Total Holding Tank Waste Charge per		**1000**	**Gallons:**	**$ 6.41**

SEPTAGE WASTE

	Waste Strength Parameters	Waste Loading Parameters	Variable Chgs (Sch 6B&C)	Fixed Chg (Sch 9)	Total Unit Charges	Total Costs
Flow	1000 gallons	1.0 x 1000 gal	$ 2.56	$ -	$ 2.56	$ 2.56
BOD	1500 mg/l	12.5 lbs	$ 0.34	$ -	$ 0.34	$ 4.23
TSS	5000 mg/l	41.7 lbs	$ 0.21	$ -	$ 0.21	$ 8.60
Ammonia	250 mg/l	2.1 lbs	$ 2.18	$ -	$ 2.18	$ 4.54
		Total Septic Tank Waste Charge per		**1000**	**Gallons:**	**$ 19.93**

APPENDIX D

UTILITY DISTRICT CONNECTION CHARGES, SURCHARGES AND OTHER MISCELLANEOUS CHARGES

SCHEDULE 10

DOT REST AREAS AND INDUSTRIAL / SIGNIFICANT USER SURCHARGE CALCULATION

Mar-07

	FLOW	BOD	TSS	NH3	TOTALS
SENERIO #1 - NORMAL DOMESTIC WASTEWATER					
SINGLE FAMILY HOUSEHOLD @ 1 REU	7500 gal/mo	250 mg/l 15.6 #/mo	250 mg/l 15.6 #/mo	24 mg/l 1.5 #/mo	32.8 #/mo
COST ALLOCATION PER SCH 7 (March 07)	62 %	17 %	10 %	11 %	100 %
SENERIO #2 - HIGH STRENGTH LOW VOLUME WASTEWATER					
HOLDING TANK TYPE WASTEWATER	150,000 gal/mo (5000 gal/day)	600 mg/l 750.6 #/mo	1000 mg/l 1251.0 #/mo	110 mg/l 137.6 #/mo	2139.2 #/mo
ADDITIONAL REUs BY PARTS	19.0	47.0	79.0	90.7	65.3
PERCENT ALLOCATION	62 %	17 %	10 %	11 %	100 %
EQUIVALENT REUs	11.8 REU	8.0 REU	7.9 REU	10.0 REU	25.9 REU
SENERIO #3 - LOW STRENGTH HIGH VOLUME WASTEWATER					
CAR WASH TYPE WASTEWATER	450,000 gal/mo (15000 gal/day)	20 mg/l 25.0 #/mo	100 mg/l 125.1 #/mo	10 mg/l 12.5 #/mo	162.6 #/mo
ADDITIONAL REUs BY PARTS	59.0	0.5	11.5	0.1	0.6
PERCENT ALLOCATION	62 %	17 %	10 %	11 %	100 %
EQUIVALENT REUs	36.6 REU	0.1 REU	1.2 REU	0.0 REU	1.2 REU
SENERIO #4 - MEDIUM STRENGTH MEDIUM VOLUME WASTEWATER					
XYZ TYPE WASTEWATER	150,000 gal/mo (5000 gal/day)	500 mg/l 625.5 #/mo	500 mg/l 625.5 #/mo	25 mg/l 31.3 #/mo	1282.3 #/mo
ADDITIONAL REUs BY PARTS	19.0	35.8	61.6	1.8	11.8
PERCENT ALLOCATION	62 %	17 %	10 %	11 %	100 %
EQUIVALENT REUs	11.8 REU	6.1 REU	6.2 REU	0.2 REU	12.4 REU

APPENDIX E

WDOT/UTILITY DISTRICT AGREEMENT

AGREEMENT FOR SANITARY SEWER SERVICE
TO
SAFETY REST AREAS #11 & #12
I.H. 39/90/94, COLUMBIA COUNTY
PROJECT I.D. 1013-01-40

This agreement, made and entered into by and between the State of Wisconsin Department of Transportation, hereinafter referred to as "DEPARTMENT", and the Town of Dekorra Utility District No. 1, hereinafter referred to as "TOWN", provides for sanitary sewer service to Safety Rest Areas #11 and #12.

WITNESSETH

WHEREAS, the DEPARTMENT is reconstructing two safety rest areas referred to as Safety Rest Area #11 and #12 on lands owned by the State of Wisconsin on each side of Interstate Highway 39/90/94 within the Town of Dekorra and desires sanitary sewer service, and

WHEREAS, the TOWN wishes to construct new wastewater treatment facilities and sanitary sewerage collection system which upon completion will provide the desired sewer service,

NOW, THEREFORE, in consideration of their mutual promises and covenants as hereinafter set forth, the DEPARTMENT and the TOWN hereby agree as follows:

A. The TOWN will:

1. Purchase a 20± acre parcel of land presently owned by the State of Wisconsin for the purpose of constructing wastewater collection and treatment facilities that is more particularly described as follows:

The Westerly fractional portion of the NE ¼ of the NE ¼ of Section 13, bounded on the east by the I39/90/94 right-of-way and the Department of Transportation Rest Area No. 11, excluding a triangle shaped parcel of land in the southwest corner of said quarter-quarter section who's hypotenuse runs from 290' east to 580' north of the SW corner of the NE ¼ of the NE ¼ of Section; also the north 650 feet of the east 300 feet of the NW ¼ of the NE ¼ of Section 13, all of which are in T11N, R8E, Dekorra Township, Columbia County, Wisconsin, and are presently owned by the State of Wisconsin.

The DEPARTMENT and TOWN will obtain independent appraisals for the lands described above to determine the land value and use the arithmetic average of the two appraisals to determine the final purchase price. In the event the land purchase is not executed by the time construction contracts for the wastewater treatment facilities are executed, the DEPARTMENT will provide or obtain a temporary construction easement over the entire 20± acre parcel to permit contractors access to the land to begin the construction process.

2. Design and construct a sanitary sewerage collection system and appurtenant facilities (as approved by DOT) that will extend from the Dekorra Utility District No. 1 predominantly adjacent to and within the Interstate Highway 39/90/94 right-of-way to the new wastewater treatment facilities at the site noted above. Such design shall provide adequate sewer service to both Rest Areas #11 and #12 regardless of any other service the TOWN may provide by this sanitary sewer main.

3. Design and let to competitive bids for the construction of the new wastewater treatment facilities, sanitary sewerage collection system, and associated appurtenances (the Project) by March 15, 2006. The Project may be constructed in phases based on the design conditions for Rest Areas #11 and #12 and initial sewerage service needs of the TOWN.

4. Schedule the construction of the new wastewater treatment facilities and sanitary sewerage collection system to provide sanitary sewer service to the Rest Areas #11 and #12 by June 30, 2007. The Department anticipates connection to the WWTP by December of 2007.

5. Contribute to the construction of the new sanitary sewerage collection system and wastewater treatment facilities on an initial 20% basis with the remaining 80% match provided by the DEPARTMENT. The final contribution prorationing may vary from the 80/20 split based on actual construction bid values of the construction work. If the initial construction phase of the new wastewater treatment facilities and sanitary sewerage collection system requires the use of all of the funds in the DEPARTMENT's connection fee account any additional required funds to complete the project will be the responsibility of the TOWN.

6. Provide for the ongoing treatment of the design condition wastewater produced by Safety Rest Areas #11 and #12 in compliance with all applicable state and federal regulations. Be responsible for all necessary operation, maintenance, repair and replacement of the sewerage collection and wastewater treatment system.

7. Provide for recalibration of the water meters at Rest Areas #11 and #12 on an annual basis to verify and maintain accuracy of the Department's metering system.

B. The DEPARTMENT will:

1. Pay the TOWN a maximum connection fee of $2,952,000 toward the construction of a new sanitary sewerage collection system and wastewater treatment facilities. The DEPARTMENT'S fee is based upon cost estimates developed by the TOWN utilizing 2027 design condition sewage flow and loading information provided by the DEPARTMENT and the connection fee ordinance of the Village of Poynette.

The DEPARTMENT estimates the 2027 design condition flows and loadings from the Safety Rest Areas #11 and #12 as follows:

- Design Average Flow - 60,700 GPD which is the average of the maximum 3-summer months sewage flows from Safety Rest Areas #11 and #12.

- Design Maximum Daily Flow – 82,000 GPD
- BOD_5 - 530 mg/l (268 lb/day @ Qave.) (362 lb/day @ Qmax.)
- TSS - 830 mg/l (420 lb/day @ Qave.) (567 lb/day @ Qmax.)
- NH_3-N - 45 mg/l (23 lb/day @ Qave.) (31 lb/day @ Qmax.)
- Phosphorous - 20 mg/l (10 lb/day @ Qave.) (14 lb/day @ Qmax.)

The DEPARTMENT shall share proportionally in the costs of any required future capital improvements to the TOWN's sewerage collection system and wastewater treatment facilities at such time that either of the following flow / loading conditions from the Safety Rest Areas #11 and #12 are exceeded:

- Average daily flows or loadings per month are exceeded for 3 months in a given year.
- Maximum daily flows or loadings are exceeded 3 times during the maximum 3 month period. (Maximum loading condition involves the maximum daily flow times the average waste concentration as determined by a minimum of ten samples.)

2. Contribute to the construction of the new sanitary sewerage collection system and wastewater treatment facilities on an initial 80% basis with the remaining 20% match provided by the TOWN. The final contribution prorationing may vary from the 80/20 split based on actual construction values of the construction work.

3. Appropriate $2,952,000 in connection fee funds into an auditable account. Allow the TOWN access to audit reports regarding connection fee fund status. The Department shall provide disbursements to a TOWN established, segregated, non-interest bearing account set up specifically for the project. "Request for Disbursement" and "Payment Request Worksheet" forms will be utilized to request reimbursement of construction, engineering and administrative expenses for the project from the DEPARTMENT's connection fee account. If the initial construction phase of the project does not require the use of all of the funds in the DEPARTMENT's connection fee account any remaining funds will revert back to the DEPARTMENT.

4. Pay the TOWN monthly sanitary sewer service charges based upon rates approved and updated by the Utility District Board from time to time and in effect at the time the service is used. Sewage volumes will be determined utilizing a combination of primary water meters and deductive water meters installed so that all wastewater entering the sanitary sewer system will be monitored. The user charge system developed by the TOWN may impose surcharges on the DEPARTMENT if the above noted flows or loadings are exceeded. The DEPARTMENT may review the sewer use and user charge ordinance upon request.

5. Cooperate with the TOWN in its Facilities Planning, design, plan and specification preparation and DNR approval process to permit the construction of new wastewater treatment facilities and sanitary sewerage collection system.

6. Allow the TOWN or its designee access to facilities within the Rest Area proper, providing such access will not unduly inconvenience or endanger the public.

7. The DEPARTMENT will reconstruct Rest Areas #11 and #12 including building sewers that will connect to manholes constructed by the TOWN as part of the TOWN's sanitary sewerage collection system. The DEPARTMENT will provide locations for the rest area connection manholes to the TOWN for incorporation into its sanitary sewerage collection system. The DEPARTMENT will construct and maintain sewage comminution facilities at each rest area to protect downstream wastewater conveyance and treatment facilities.

8. The DEPARTMENT shall at all times be subject to and fully and timely abide by any and all sewage, wastewater, utility and other applicable Federal, State, County and Town statutes, ordinances, codes, regulations, rules, and other lawful requirements of whatsoever kind or nature as from time to time are amended.

9. The DEPARTMENT will not provide facilities that would permit open dumping into the sewer system and will not construct a public sanitary dumping station at Rest Areas #11 and #12.

10. In the event that objectionable odors are produced through the DEPARTMENT's rest area wastewater generation, the TOWN may require the DEPARTMENT to implement odor control measures to prevent such odors from causing problems with the TOWN's collection and treatment system.

11. All access points into the DEPARTMENT's rest area wastewater delivery system to the point of connection with the TOWN's sewerage collection system shall be secured from unauthorized access.

12. The DEPARTMENT shall allow the TOWN and/or its authorized agents to review and approve the DEPARTMENT's plans, specifications and design reports that relate to the TOWN's sewerage collection system and wastewater treatment facilities. In addition, the TOWN shall be invited to attend the DEPARTMENT's preconstruction conferences for the rest area construction projects to verify that issues regarding the TOWN's sewerage collection system, wastewater treatment facilities and mitigation measures for area property owners are being addressed.

C. This Agreement and the obligations and promises of the TOWN and the DEPARTMENT herein are subject to and condition upon the following:

1. Approval of this Agreement by both the Town Board and the Dekorra Utility District No. 1 Board in open session.
2. Purchase by the TOWN of State owned lands required for the construction of wastewater collection and treatment facilities.
3. Approval by the DNR of the TOWN's Facilities Planning, Design and Plans and Specifications for the project.

4. Acceptance of all required easements and/or permits.
5. Force Majeure.
6. Authorization from Columbia County to utilize public rights-of-way for construction of required sanitary sewerage collection system and appurtenant facilities.
7. Approval of this agreement by the Department of Transportation, Bureau of Highway Construction.
8. Approval of this agreement by the Governor of the State of Wisconsin.
9. Approval by the Town citizens at a special Town meeting for the Town to obtain a general obligation loan to finance it 20% contribution to the project.

D. FORCE MAJEURE

Delay in Performance for Causes Beyond the Control of the Parties: For the purposes of any provisions of this Agreement, the Town shall not be considered in breach or default of its obligations with respect to the beginning and completion of construction of the improvements or progress in respect thereto in the event of delay in the performance of such obligations due to unforeseeable causes beyond its control and without its fault, or negligence, including, but not restricted to Acts of God, acts of the public enemy, acts of the Federal government, fires, floods, epidemics, quarantine restrictions, unforeseen site conditions, strikes, embargoes and unusually severe weather or delays of subcontractors due to such causes, it being the purpose and intent of this provision that in the event of the occurrence of any such delay, the time or times of performance of any of the obligations of the Town with respect to construction of the improvements shall be extended for the period of the delay.

E. NONDISCRIMINATION

In connection with the performance of work under this Agreement, the TOWN agrees not to discriminate against any employee or applicant for employment because of age, race, religion, color or national origin, handicap, sex, physical condition, developmental disability as defined in Wis.Stats. S.51.01(5), or sexual orientation as defined in Wis.Stats. S.111.32(13m). The aforesaid provision shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

In Witness Whereof, the parties hereto have caused this Agreement to be executed by their authorized officers or representatives.

TOWN OF DEKORRA
UTILITY DISTRICT NO. 1

By: _____ 19 APR 05
Fred Teitgen, Chairperson Date
Town Board & Utility District No. 1

By: _____ 4-19-05
Sue Finstad, Clerk Date

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

By: _____ 7/7/05
Donald J. Miller Date
(Bureau of Highway Construction)

By: JIM DOYLE JUN 30 2005
Jim Doyle, Governor Date

AMENDMENT NO. 1
TO
AGREEMENT FOR SANITARY SEWER SERVICE
TO
SAFETY REST AREAS #11 & #12
I.H. 39/90/94, COLUMBIA COUNTY
PROJECT I.D. 1013-01-40

This AMENDMENT No. 1 to the above noted AGREEMENT FOR SANITARY SEWER SERVICE is hereby made and entered into by and between the State of Wisconsin Department of Transportation, hereinafter referred to as "DEPARTMENT", and the Town of Dekorra Utility District No. 1, hereinafter referred to as "TOWN.

WITNESSETH

WHEREAS, the DEPARTMENT is reconstructing two safety rest areas referred to as Safety Rest Area #11 and #12 on lands owned by the State of Wisconsin on each side of Interstate Highway 39/90/94 within the Town of Dekorra and desires sanitary sewer service, and

WHEREAS, the TOWN wishes to construct new wastewater treatment facilities and sanitary sewerage collection system which upon completion will provide the desired sewer service,

NOW, THEREFORE, in consideration of their mutual promises and covenants as hereinafter set forth, the DEPARTMENT and the TOWN hereby agree to amend the Agreement for Sanitary Sewer Service dated _____ as follows:

A. The TOWN agrees that the Wastewater Treatment Facility and Sanitary Sewerage Collection System will only provide sewer service to those areas within the Town of Dekorra Utility District No. 1 Boundary and that area delineated for 20-Year sewer service in the 2005 Department of Natural Resources approved Facilities Plan until such time as the Department of Natural Resources approves a Facilities Plan Amendment or approves a future Facilities Plan that modifies the delineated sewer service areas.

B. Subject to paragraph A, the TOWN agrees that any future sewer service provided to areas outside of the Town of Dekorra Utility District No. 1 Boundary shall include a provision of sewer service to failing existing private onsite systems as the first priority before sewer service is provided for new development. For purposes of this paragraph, existing private onsite systems are private onsite systems that are providing service as of the date this agreement amendment was signed and executed.

In Witness Whereof, the parties hereto have caused this Agreement Amendment to be executed by their authorized officers or representatives.

TOWN OF DEKORRA
UTILITY DISTRICT NO. 1

By:_____ _____
Fred Teitgen, Chairperson Date
(Town Board & Utility District No. 1)

By:_____ _____
Vicki Auck, Clerk Date

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

By:_____ _____
David Simon Date
(Bureau of Highway Operations)

By:_____ _____
Donald J. Miller Date
(Bureau of Highway Construction)

AMENDMENT NO. 2
TO
AGREEMENT FOR SANITARY SEWER SERVICE
TO
SAFETY REST AREAS #11 & #12
I.H. 39/90/94, COLUMBIA COUNTY
PROJECT I.D. 1013-01-40

This AMENDMENT No. 2 to the above noted AGREEMENT FOR SANITARY SEWER SERVICE is hereby made and entered into by and between the State of Wisconsin Department of Transportation, hereinafter referred to as "DEPARTMENT", and the Town of Dekorra Utility District No. 1, hereinafter referred to as "TOWN.

WITNESSETH

WHEREAS, the DEPARTMENT is reconstructing two safety rest areas referred to as Safety Rest Area #11 and #12 on lands owned by the State of Wisconsin on each side of Interstate Highway 39/90/94 within the Town of Dekorra and desires sanitary sewer service, and

WHEREAS, the TOWN wishes to construct new wastewater treatment facilities and sanitary sewerage collection system which upon completion will provide the desired sewer service,

NOW, THEREFORE, in consideration of their mutual promises and covenants as hereinafter set forth, the DEPARTMENT and the TOWN hereby agree to amend the Agreement for Sanitary Sewer Service dated July 7, 2005 as follows:

1. In Section A.3., the deadline date for the design and letting of bids for the wastewater treatment facilities be changed from March 15, 2006 to April 30, 2006.

2. In Section B.1., the maximum connection fee paid by the DEPARTMENT to the TOWN shall be changed from $2, 952,000 to $3,495,735 which includes a $543,735 increase by the DEPARTMENT on a 70/30 basis to account for increases in project costs.

3. In Section B., add the following: 13. The DEPARTMENT will, in cooperating with the TOWN's WPDES permit stipulations from the Wisconsin Department of Natural Resources (DNR), minimize the concentration of chlorides in its wastewater discharge. This will involve the restricted use of softened water by the use of Demand Initiated Regeneration softeners with flow meter based regeneration.

In Witness Whereof, the parties hereto have caused this Agreement Amendment to be executed by their authorized officers or representatives.

TOWN OF DEKORRA
UTILITY DISTRICT NO. 1

By:_____ _____
Fred Teitgen, Chairperson Date
(Town Board & Utility District No. 1)

By:_____ _____
Vicki Auck, Clerk Date

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

By:_____ _____
David Simon Date
(Bureau of Highway Operations)

By:_____ _____
Donald J. Miller Date
(Bureau of Highway Construction)

APPENDIX F

WPDES PERMIT NO. WI-0063371-01-0

WISCONSIN
DEPT. OF NATURAL RESOURCES

WPDES PERMIT

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

PERMIT TO DISCHARGE UNDER THE
WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM

Dekorra Utility District #1

is permitted, under the authority of Chapter 283, Wisconsin Statutes, to discharge from a facility located at
SEQ, NEQ, SECTION 13, T11N, R8E, DEKORRA TWP., POYNETTE, WISCONSIN
to the

GROUNDWATER LOWER WISCONSIN RIVER BASIN (LAKE WISCONSIN WATERSHED, LW19 – LOWER WISCONSIN RIVER BASIN) IN COLUMBIA COUNTY

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit.

The permittee shall not discharge after the date of expiration. If the permittee wishes to continue to discharge after this expiration date an application shall be filed for reissuance of this permit, according to Chapter NR 200, Wis. Adm. Code, at least 180 days prior to the expiration date given below.

State of Wisconsin Department of Natural Resources
For the Secretary

By _____
Lloyd L. Eagan
South Central Regional Director

_____
Date Permit Signed/Issued

PERMIT TERM: EFFECTIVE DATE - April 01, 2007 **EXPIRATION DATE - March 31, 2012**

TABLE OF CONTENTS

1 Influent Requirements

1.1 Sampling Point(s)

Sampling Point Designation	
Sampling Point Number	**Sampling Point Location, WasteType/Sample Contents and Treatment Description (as applicable)**
701	Representative influent samples shall be collected from the ~~raw sewage wet well.~~ ~~facility's~~ influent flow meter Manhole at the WWTP.

1.2 Monitoring Requirements

The permittee shall comply with the following monitoring requirements.

1.2.1 Sampling Point 701 - INFLUENT

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		MGD	Continuous	Continuous	
BOD_5, Total		mg/L	Weekly	24-Hr Flow Prop Comp	
Suspended Solids, Total		mg/L	Weekly	24-Hr Flow Prop Comp	
Nitrogen, Total Kjeldahl		mg/L	Monthly	24-Hr Flow Prop Comp	
Nitrogen, Organic Total		mg/L	Monthly	Calculated	
Nitrogen, Ammonia (NH_3-N) Total		mg/L	Monthly	24-Hr Flow Prop Comp	

2 Land Treatment Requirements

2.1 Sampling Point(s)

Sampling Point Designation	
Sampling Point Number	**Sampling Point Location, Waste Description/Sample Contents and Treatment Description (as applicable)**
001	Representative effluent samples shall be collected at the SBR effluent box.

2.2 Monitoring Requirements and Limitations

The permittee shall comply with the following monitoring requirements and limitations.

2.2.1 Sampling Point (Outfall) 001 - EFFLUENT, Absorption Pond (Seepage Cell)

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		MGD	Daily	Total Daily	See the Monthly Avg - LT calculation footnote below
BOD_5, Total	Monthly Avg	50 mg/L	Weekly	24-Hr Flow Prop Comp	
Suspended Solids, Total		mg/L	Weekly	24-Hr Flow Prop Comp	
pH Field		su	Weekly	Grab	
Nitrogen, Total Kjeldahl		mg/L	Monthly	24-Hr Flow Prop Comp	
Nitrogen, Ammonia (NH_3-N) Total		mg/L	Monthly	24-Hr Flow Prop Comp	
Nitrogen, Organic Total		mg/L	Monthly	Calculated	
Nitrogen, Nitrite + Nitrate Total		mg/L	Monthly	24-Hr Flow Prop Comp	
Nitrogen, Total	Monthly Avg	10 mg/L	Monthly	Calculated	
Solids, Total Dissolved		mg/L	Monthly	24-Hr Flow Prop Comp	
Chloride	Daily Max	250 mg/L	Monthly	24-Hr Flow Prop Comp	

Daily Log – Monitoring Requirements and Limitations All discharge and monitoring activity shall be documented on log sheets. Originals of the log sheets shall be kept by the permittee as described under "Records Retention" in the Standard Requirements section, and if requested, made available to the Department.				
Parameters	**Limit**	**Units**	**Sample Frequency**	**Sample Type**
Cells Being Loaded	-	Cell Number	Daily	Log
Start to End Time	-	Date, Hour	Daily	Log

2.2.1.1 Monthly Avg Flow – LT Calculation

The monthly average discharge flow for Land Treatment systems is calculated by dividing the total wastewater volume discharged for the month by the total number of days in the month.

2.2.1.2 Average Annual Design Flow

The average annual design flow of the permittee's wastewater treatment facility is 0.105 MGD.

3 Groundwater Requirements

3.1 Monitoring Requirements and Limitations

3.1.1 Groundwater Monitoring System for seepage cells monitoring system

Location of Monitoring System: SEQ, NEQ, SEC 13, T11N, R8E, DEKORRA TWP

Wells to be Monitored: MW5 (801) BACKGROUND WELL, MW4 (802) BACKGROUND WELL, MW1 (803) DOWNGRADIENT WELL, MW2 (804) DOWNGRADIENT WELL

Well Used To Calculate Preventive Action Limits (PALs): NA

PALs listed in the table below have been calculated based on background groundwater quality data from this designated well. Groundwater contaminant concentrations shall be minimized and PALs met in groundwater monitoring wells to the extent it is technically and economically feasible.

Compliance Well(s) for Enforcement Standards (ESs): NA

Enforcement standards are to be met in groundwater located beyond the 250 foot design management zone, or beyond the property boundary, whichever is closer to the land treatment system. See the Standard Requirements section of this permit for additional conditions related to exceedance of groundwater standards.

Required Monitoring: Grab samples shall be collected from each well to be monitored per the frequency shown in the table below (months of March, June, September and November), except that monthly grab samples shall be collected from each new well during the first 3 months after well installation. The grab samples shall be analyzed for the parameters specified in the table below.

PARAMETER	UNITS	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	FREQUENCY
Depth To Groundwater	feet	*****	N/A	Quarterly
Groundwater Elevation	feet MSL	*****	N/A	Quarterly
Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	2.0	10	Quarterly
Chloride Dissolved	mg/L	125	250	Quarterly
pH Field	su	*****	N/A	Quarterly
Nitrogen, Total Kjeldahl Dissolved	mg/L	*****	N/A	Quarterly
Nitrogen, Ammonia Dissolved	mg/L	*****	N/A	Quarterly
Nitrogen, Organic Dissolved	mg/L	*****	N/A	Quarterly
Solids, Total Dissolved	mg/L	*****	N/A	Quarterly

3.1.1.1 Preventive Action Limits To Be Calculated For Indicator Parameters

*****Preventive Action Limits (PALs) for NR 140 Indicator Parameters have not yet been established for this site. For more information see "Indicator Parameter – Preventive Action Limits" in the Standard Requirements section. PALs are not calculated for Depth to Groundwater, Groundwater Elevation, nor Total Kjeldahl Nitrogen.

4 Land Application Requirements

4.1 Sampling Point(s)

The discharge(s) shall be limited to land application of the waste type(s) designated for the listed sampling point(s) on Department approved land spreading sites or by hauling to another facility.

Sampling Point Designation	
Sampling Point Number	**Sampling Point Location, WasteType/Sample Contents and Treatment Description (as applicable)**
002	Anaerobically digested, Liquid, Class B. Representative sludge samples shall be collected from the sludge storage tank.

4.2 Monitoring Requirements and Limitations

The permittee shall comply with the following monitoring requirements and limitations.

4.2.1 Sampling Point (Outfall) 002 - SLUDGE

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
PCB Total Dry Wt	Ceiling	50 mg/kg	Once	Composite	Jan 1, 2010 - Dec 31, 2010
PCB Total Dry Wt	High Quality	10 mg/kg	Once	Composite	Jan 1, 2010 - Dec 31, 2010
Solids, Total		Percent	Annual	Composite	
Arsenic Dry Wt	Ceiling	75 mg/kg	Annual	Composite	
Arsenic Dry Wt	High Quality	41 mg/kg	Annual	Composite	
Cadmium Dry Wt	Ceiling	85 mg/kg	Annual	Composite	
Cadmium Dry Wt	High Quality	39 mg/kg	Annual	Composite	
Copper Dry Wt	Ceiling	4,300 mg/kg	Annual	Composite	
Copper Dry Wt	High Quality	1,500 mg/kg	Annual	Composite	
Lead Dry Wt	Ceiling	840 mg/kg	Annual	Composite	
Lead Dry Wt	High Quality	300 mg/kg	Annual	Composite	
Mercury Dry Wt	Ceiling	57 mg/kg	Annual	Composite	
Mercury Dry Wt	High Quality	17 mg/kg	Annual	Composite	
Molybdenum Dry Wt	Ceiling	75 mg/kg	Annual	Composite	
Nickel Dry Wt	Ceiling	420 mg/kg	Annual	Composite	
Nickel Dry Wt	High Quality	420 mg/kg	Annual	Composite	
Selenium Dry Wt	Ceiling	100 mg/kg	Annual	Composite	
Selenium Dry Wt	High Quality	100 mg/kg	Annual	Composite	
Zinc Dry Wt	Ceiling	7,500 mg/kg	Annual	Composite	
Zinc Dry Wt	High Quality	2,800 mg/kg	Annual	Composite	
Nitrogen, Total Kjeldahl		Percent	Annual	Composite	
Nitrogen, Ammonium (NH_4-N) Total		Percent	Annual	Composite	
Phosphorus, Total		Percent	Annual	Composite	

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Phosphorus, Water Extractable		Percent	Annual	Composite	
Potassium, Total Recoverable		Percent	Annual	Composite	

Other Sludge Requirements	
Sludge Requirements	**Sample Frequency**
List 3 Requirements – Pathogen Control: The requirements in List 3 shall be met prior to land application of sludge.	**Annual**
List 4 Requirements – Vector Attraction Reduction: The vector attraction reduction shall be satisfied prior to, or at the time of land application as specified in List 4.	**Annual**

4.2.1.1 List 2 Analysis

If the monitoring frequency for List 2 parameters is more frequent than "Annual" then the sludge may be analyzed for the List 2 parameters just prior to each land application season rather than at the more frequent interval specified.

4.2.1.2 Changes in Feed Sludge Characteristics

If a change in feed sludge characteristics, treatment process, or operational procedures occurs which may result in a significant shift in sludge characteristics, the permittee shall reanalyze the sludge for List 1, 2, 3 and 4 parameters each time such change occurs.

4.2.1.3 Multiple Sludge Sample Points (Outfalls)

If there are multiple sludge sample points (outfalls), but the sludges are not subject to different sludge treatment processes, then a separate List 2 analysis shall be conducted for each sludge type which is land applied, just prior to land application, and the application rate shall be calculated for each sludge type. In this case, List 1, 3, and 4 and PCBs need only be analyzed on a single sludge type, at the specified frequency. If there are multiple sludge sample points (outfalls), due to multiple treatment processes, List 1, 2, 3 and 4 and PCBs shall be analyzed for each sludge type at the specified frequency.

4.2.1.4 Sludge Which Exceeds the High Quality Limit

Cumulative pollutant loading records shall be kept for all bulk land application of sludge which does not meet the high quality limit for any parameter. This requirement applies for the entire calendar year in which any exceedance of Table 3 of s. NR 204.07(5)(c), is experienced. Such loading records shall be kept for all List 1 parameters for each site land applied in that calendar year. The formula to be used for calculating cumulative loading is as follows:

[(Pollutant concentration (mg/kg) x dry tons applied/ac) ÷ 500] + previous loading (lbs/acre) = cumulative lbs pollutant per acre

When a site reaches 90% of the allowable cumulative loading for any metal established in Table 2 of s. NR 204.07(5)(b), the Department shall be so notified through letter or in the comment section of the annual land application report (3400-55).

4.2.1.5 Sludge Analysis for PCBs

The permittee shall analyze the sludge for Total PCBs one time during **2010**. The results shall be reported as "PCB Total Dry Wt". Either congener-specific analysis or Aroclor analysis shall be used to determine the PCB concentration. The permittee may determine whether Aroclor or congener specific analysis is performed. Analyses shall be performed in accordance with Table EM in s. NR 219.04, Wis. Adm. Code and the conditions specified in Standard Requirements of this permit. PCB results shall be submitted by January 31, following the specified year of analysis.

4.2.1.6 Lists 1, 2, 3, and 4

List 1 **TOTAL SOLIDS AND METALS** See the Monitoring Requirements and Limitations table above for monitoring frequency and limitations for the List 1 parameters
Solids, Total (percent)
Arsenic, mg/kg (dry weight)
Cadmium, mg/kg (dry weight)
Copper, mg/kg (dry weight)
Lead, mg/kg (dry weight)
Mercury, mg/kg (dry weight)
Molybdenum, mg/kg (dry weight)
Nickel, mg/kg (dry weight)
Selenium, mg/kg (dry weight)
Zinc, mg/kg (dry weight)

List 2 **NUTRIENTS** See the Monitoring Requirements and Limitations table above for monitoring frequency for the List 2 parameters
Solids, Total (percent)
Nitrogen Total Kjeldahl (percent)
Nitrogen Ammonium (NH4-N) Total (percent)
Phosphorus Total as P (percent)
Phosphorus, Water Extractable (as percent of Total P)
Potassium Total Recoverable (percent)

List 3
PATHOGEN CONTROL FOR CLASS B SLUDGE

The permittee shall implement pathogen control as listed in List 3. The Department shall be notified of the pathogen control utilized and shall be notified when the permittee decides to utilize alternative pathogen control.

The following requirements shall be met prior to land application of sludge.

Parameter	Unit	Limit
Fecal Coliform*	MPN/gTS or CFU/gTS	2,000,000
OR, ONE OF THE FOLLOWING PROCESS OPTIONS		
Aerobic Digestion	Air Drying	
Anaerobic Digestion	Composting	
Alkaline Stabilization	PSRP Equivalent Process	

* The Fecal Coliform limit shall be reported as the geometric mean of 7 discrete samples on a dry weight basis.

List 4
VECTOR ATTRACTION REDUCTION

The permittee shall implement any one of the vector attraction reduction options specified in List 4. The Department shall be notified of the option utilized and shall be notified when the permittee decides to utilize an alternative option.

One of the following shall be satisfied prior to, or at the time of land application as specified in List 4.

Option	Limit	Where/When it Shall be Met
Volatile Solids Reduction	≥38%	Across the process
Specific Oxygen Uptake Rate	≤1.5 mg O_2/hr/g TS	On aerobic stabilized sludge
Anaerobic bench-scale test	<17 % VS reduction	On anaerobic digested sludge
Aerobic bench-scale test	<15 % VS reduction	On aerobic digested sludge
Aerobic Process	>14 days, Temp >40°C and Avg. Temp > 45°C	On composted sludge
pH adjustment	>12 S.U. (for 2 hours) and >11.5 (for an additional 22 hours)	During the process
Drying without primary solids	>75 % TS	When applied or bagged
Drying with primary solids	>90 % TS	When applied or bagged
Equivalent Process	Approved by the Department	Varies with process
Injection	-	When applied
Incorporation	-	Within 6 hours of application

5 Standard Requirements

NR 205, Wisconsin Administrative Code: The conditions in ss. NR 205.07(1) and NR 205.07(2), Wis. Adm. Code, are included by reference in this permit. The permittee shall comply with all of these requirements. Some of these requirements are outlined in the Standard Requirements section of this permit. Requirements not specifically outlined in the Standard Requirement section of this permit can be found in ss. NR 205.07(1) and NR 205.07(2).

5.1 Reporting and Monitoring Requirements

5.1.1 Monitoring Results

Monitoring results obtained during the previous month shall be summarized and reported on a Department Wastewater Discharge Monitoring Report Form in either electronic or paper format. The report form may require reporting of any or all of the information specified below under 'Recording of Results'. This report form is to be returned to the Department no later than the date indicated on the form. When submitting a paper Discharge Monitoring Report form, the original and one copy of the Wastewater Discharge Monitoring Report Form shall be submitted to the return address printed on the form. A copy of the Wastewater Discharge Monitoring Report Form shall be retained by the permittee.

Electronic discharge monitoring reports may be submitted instead of paper reports. Prior to submitting any electronic discharge monitoring reports, the permittee shall obtain a Trading Partner Agreement that is signed by both the permittee and the Department. The Trading Partner Agreement becomes effective upon the date of signature by both parties and continues in effect until modified or terminated. An Electronic Discharge Monitoring Report Certification sheet shall also be signed and submitted with each electronic Discharge Monitoring Report submittal. This certification sheet, which is not part of the electronic report form, shall be signed by a principal executive officer, a ranking elected official or other duly authorized representative and shall be mailed to the Department at the time of submittal of the electronic Discharge Monitoring Report. The certification sheet certifies that the electronic report form is true, accurate and complete.

If the permittee monitors any pollutant more frequently than required by this permit, the results of such monitoring shall be included on the Wastewater Discharge Monitoring Report Form.

The permittee shall comply with all limits for each parameter regardless of monitoring frequency. For example, monthly, weekly, and/or daily limits shall be met even with monthly monitoring. The permittee may monitor more frequently than required for any parameter.

Monitoring reports shall be signed by a principal executive officer, a ranking elected official, or other duly authorized representative.

5.1.2 Sampling and Testing Procedures

Sampling and laboratory testing procedures shall be performed in accordance with Chapters NR 218 and NR 219, Wis. Adm. Code and shall be performed by a laboratory certified or registered in accordance with the requirements of ch. NR 149, Wis. Adm. Code. Groundwater sample collection and analysis shall be performed in accordance with ch. NR 140, Wis. Adm. Code. The analytical methodologies used shall enable the laboratory to quantitate all substances for which monitoring is required at levels below the effluent limitation. If the required level cannot be met by any of the methods available in NR 219, Wis. Adm. Code, then the method with the lowest limit of detection shall be selected. Additional test procedures may be specified in this permit.

5.1.3 Recording of Results

The permittee shall maintain records which provide the following information for each effluent measurement or sample taken:

- the date, exact place, method and time of sampling or measurements;
- the individual who performed the sampling or measurements;
- the date the analysis was performed;
- the individual who performed the analysis;
- the analytical techniques or methods used; and
- the results of the analysis.

5.1.4 Reporting of Monitoring Results

The permittee shall use the following conventions when reporting effluent monitoring results:

- Pollutant concentrations less than the limit of detection shall be reported as < (less than) the value of the limit of detection. For example, if a substance is not detected at a detection limit of 0.1 mg/L, report the pollutant concentration as < 0.1 mg/L.

- Pollutant concentrations equal to or greater than the limit of detection, but less than the limit of quantitation, shall be reported and the limit of quantitation shall be specified.

- For the purposes of reporting a calculated result, average or a mass discharge value, the permittee may substitute a 0 (zero) for any pollutant concentration that is less than the limit of detection. However, if the effluent limitation is less than the limit of detection, the department may substitute a value other than zero for results less than the limit of detection, after considering the number of monitoring results that are greater than the limit of detection and if warranted when applying appropriate statistical techniques.

5.1.5 Compliance Maintenance Annual Reports

Compliance Maintenance Annual Reports (CMAR) shall be completed using information obtained over each calendar year regarding the wastewater conveyance and treatment system. The CMAR shall be submitted by the permittee in accordance with ch. NR 208, Wis. Adm. Code, by June 30, each year on an electronic report form provided by the Department.

In the case of a publicly owned treatment works, a resolution shall be passed by the governing body and submitted as part of the CMAR, verifying its review of the report and providing responses as required. Private owners of wastewater treatment works are not required to pass a resolution; but they must provide an Owner Statement and responses as required, as part of the CMAR submittal.

A separate CMAR certification document, that is not part of the electronic report form, shall be mailed to the Department at the time of electronic submittal of the CMAR. The CMAR certification shall be signed and submitted by an authorized representative of the permittee. The certification shall be submitted by mail. The certification shall verify the electronic report is complete, accurate and contains information from the owner's treatment works.

5.1.6 Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit for a period of at least 3 years from the date of the sample, measurement, report or application. All pertinent sludge information, including permit application information and other documents specified in this permit or s. NR 204.06(9), Wis. Adm. Code shall be retained for a minimum of 5 years.

5.1.7 Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts o correct information to the Department.

5.2 System Operating Requirements

5.2.1 Noncompliance Notification

- The permittee shall report the following types of noncompliance by a telephone call to the Department's regional office within 24 hours after becoming aware of the noncompliance:
  - any noncompliance which may endanger health or the environment;
  - any violation of an effluent limitation resulting from an unanticipated bypass;
  - any violation of an effluent limitation resulting from an upset; and
  - any violation of a maximum discharge limitation for any of the pollutants listed by the Department in the permit, either for effluent or sludge.

- A written report describing the noncompliance shall also be submitted to the Department's regional office within 5 days after the permittee becomes aware of the noncompliance. On a case-by-case basis, the Department may waive the requirement for submittal of a written report within 5 days and instruct the permittee to submit the written report with the next regularly scheduled monitoring report. In either case, the written report shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times; the steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance; and if the noncompliance has not been corrected, the length of time it is expected to continue.

NOTE: Section 292.11(2)(a), Wisconsin Statutes, requires any person who possesses or controls a hazardous substance or who causes the discharge of a hazardous substance to notify the Department of Natural Resources **immediately** of any discharge not authorized by the permit. The discharge of a hazardous substance that is not authorized by this permit or that violates this permit may be a hazardous substance spill. To report a hazardous substance spill, call DNR's 24-hour HOTLINE at **1-800-943-0003**

5.2.2 Flow Meters

Flow meters shall be calibrated annually, as per s. NR 218.06, Wis. Adm. Code.

5.2.3 Raw Grit and Screenings

All raw grit and screenings shall be disposed of at a properly licensed solid waste facility or picked up by a licensed waste hauler. If the facility or hauler are located in Wisconsin, then they shall be licensed under chs. NR 500-536, Wis. Adm. Code.

5.2.4 Sludge Management

All sludge management activities shall be conducted in compliance with ch. NR 204 "Domestic Sewage Sludge Management", Wis. Adm. Code.

5.2.5 Prohibited Wastes

Under no circumstances may the introduction of wastes prohibited by s. NR 211.10, Wis. Adm. Code, be allowed into the waste treatment system. Prohibited wastes include those:

- which create a fire or explosion hazard in the treatment work;
- which will cause corrosive structural damage to the treatment work;
- solid or viscous substances in amounts which cause obstructions to the flow in sewers or interference with the proper operation of the treatment work;
- wastewaters at a flow rate or pollutant loading which are excessive over relatively short time periods so as to cause a loss of treatment efficiency; and
- changes in discharge volume or composition from contributing industries which overload the treatment works or cause a loss of treatment efficiency.

5.2.6 Unscheduled Bypassing

Any unscheduled bypass or overflow of wastewater at the treatment works or from the collection system is prohibited, and the Department may take enforcement action against a permittee for such occurrences under s. 283.89, Wis. Stats., unless:

- The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
- The permittee notified the Department as required in this Section.

Whenever there is an unscheduled bypass or overflow occurrence at the treatment works or from the collection system, the permittee shall notify the Department within 24 hours of initiation of the bypass or overflow occurrence by telephoning the wastewater staff in the regional office as soon as reasonably possible (FAX, email or voice mail, if staff are unavailable).

In addition, the permittee shall within 5 days of conclusion of the bypass or overflow occurrence report the following information to the Department in writing:

- Reason the bypass or overflow occurred, or explanation of other contributing circumstances that resulted in the overflow event. If the overflow or bypass is associated with wet weather, provide data on the amount and duration of the rainfall or snow melt for each separate event.
- Date the bypass or overflow occurred.
- Location where the bypass or overflow occurred.
- Duration of the bypass or overflow and estimated wastewater volume discharged.
- Steps taken or the proposed corrective action planned to prevent similar future occurrences.
- Any other information the permittee believes is relevant.

5.2.7 Scheduled Bypassing

Any construction or normal maintenance which results in a bypass of wastewater from a treatment system is prohibited unless authorized by the Department in writing. If the Department determines that there is significant public interest in the proposed action, the Department may schedule a public hearing or notice a proposal to approve the bypass. Each request shall specify the following minimum information:

- proposed date of bypass;
- estimated duration of the bypass;
- estimated volume of the bypass;
- alternatives to bypassing; and

- measures to mitigate environmental harm caused by the bypass.

5.2.8 Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of this permit. The wastewater treatment facility shall be under the direct supervision of a state certified operator as required in s. NR 108.06(2), Wis. Adm. Code. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training as required in ch. NR 114, Wis. Adm. Code, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

5.3 Land Treatment (Land Disposal) Requirements

5.3.1 Application of NR 140 to Substances Discharged

This permit does not authorize the permittee to discharge any substance in a concentration which would cause an applicable groundwater standard of ch. NR 140, Wis. Adm. Code, to be exceeded. The Department may seek a response under NR 140 if the permittee's discharge causes exceedance of an applicable groundwater standard for any substance, including substances not specifically limited or monitored under this permit

5.3.2 Appropriate Formulas for Nitrogen

Total Nitrogen = Total Kjeldahl Nitrogen (mg/L) + [NO_2 + NO_3] Nitrogen (mg/L)

Organic Nitrogen (mg/L) = Total Kjeldahl Nitrogen (mg/L) - Ammonia Nitrogen (mg/L)

5.3.3 Toxic or Hazardous Pollutants

The discharge of toxic or hazardous pollutants to land treatment systems is prohibited unless the applicant can demonstrate and the department determines that the discharge of such pollutants will be in such small quantities that no detrimental effect on groundwater or surface water will result pursuant to s. NR 206.07(2)(c), Wis. Adm. Code. The criteria used shall include but not be limited to the toxicity of the pollutant, capacity of the soil to remove the pollutant, degradability, usual or potential presence of the pollutant in the existing environment, method of application and all other relevant factors.

5.3.4 Industrial Waste - Pretreatment Requirements

Industrial waste discharges tributary to municipal land treatment systems shall be in compliance with the applicable pretreatment standards under ch. NR 211 Wis. Adm. Code pursuant to s. NR 206.07(2)(e), Wis. Adm. Code.

5.3.5 Overflow

Discharge to a land treatment system shall be limited so that the discharge and any precipitation which falls within the boundary of the disposal system during such discharge does not overflow the boundary of the system unless the WPDES permit authorizes collection and discharge of runoff to surface water pursuant to s. NR 206.07(2)(g), Wis. Adm. Code.

5.3.6 Management Plan Requirements

All land treatment systems shall be operated in accordance with an approved management plan. The management plan shall conform to the requirements of s. NR 110.25(3m), Wis. Adm. Code, per s. NR 206.07(2)(h), Wis. Adm. Code

5.4 Groundwater Standard Requirements

5.4.1 Application of NR 140 to Substances Discharged

This permit does not authorize the permittee to discharge any substance in a concentration which would cause an applicable groundwater standard of ch. NR 140, Wis. Adm. Code, to be exceeded. The Department may seek a response under NR 140 if the permittee's discharge causes exceedance of an applicable groundwater standard for any substance, including substances not specifically limited or monitored under this permit.

5.4.2 Groundwater Sampling

Groundwater sampling shall be performed in accordance with procedures contained in the WDNR publications, Groundwater Sampling Procedures Field Manual (PUBL-WR-168 87), Groundwater Sampling Procedures Guidelines (PUBL-WR-153 87), Groundwater Sampling Desk Reference (PUBL-DG-037-96) and Groundwater Sampling Field Manual (PUBL-DG-038-96).

5.4.3 Indicator Parameter - Preventive Action Limits

Preventive action limits for indicator parameters are calculated using a minimum of eight sample analysis results available from a representative background well in accordance with the procedures in s. NR 140.20, Wis. Adm. Code.

5.4.4 Groundwater Monitoring Forms

Results of the groundwater analyses shall be summarized and reported on Groundwater Monitoring Forms supplied by the Department. This report form is to be returned to the Department no later than the date indicated on the form. The original and one copy of the Groundwater Monitoring Form shall be submitted to your DNR regional office. A copy of the Groundwater Monitoring Form shall be retained by the permittee.

5.4.5 Appropriate Formulas for Groundwater

Total Nitrogen = Total Kjeldahl Nitrogen (mg/L) + [NO_2 + NO_3] Nitrogen (mg/L)

Organic Nitrogen (mg/L) = Total Kjeldahl Nitrogen (mg/L) - Ammonia Nitrogen (mg/L)

5.4.6 Reporting Depth to Groundwater

Depth to groundwater shall be reported in feet, to the nearest 0.01 foot, below the top of the well casing. A report shall be on file with the Department stating the well casing top elevation in feet above mean sea level (MSL), to the nearest 0.01 foot, for each groundwater monitoring well.

5.4.7 Groundwater Elevation

Groundwater elevations shall be calculated by subtracting the depth to groundwater measurement from the well casing top elevation and shall be reported in feet above mean sea level (MSL) to the nearest 0.01 foot.

5.4.8 Groundwater Grab Samples

Grab samples shall be taken of the groundwater only after adequate removal or purging of standing water within the well casing has been performed. For those wells which will refill with water as fast as the water can be removed by bailing or pumping, four well volumes shall be removed prior to sample collection and analysis. For those wells which will not refill with water as fast as the water can be removed by bailing or pumping, the existing volume of water inside the well casing shall be removed and samples collected after the well has refilled to at least half the original volume in the well.

5.4.9 Filtering of Groundwater Samples

All groundwater monitoring well samples shall be filtered prior to analysis, except for the portion used to measure pH or field specific conductance, which shall be done using an unfiltered sample. While in-field analysis is preferred for these two tests, laboratory analysis done within two hours of sample collection is acceptable. For the portion to be filtered, it is preferred that filtering be performed in the field immediately following sample collection. However, laboratory filtering is acceptable. Filtering shall be performed through a standard 0.45 micron filter.

5.4.10 Groundwater Data Log

A data log shall be used to record the results of all field sampling and analysis events. This log shall include date of sampling event, groundwater sampler's name, well identification, depth from pipetop to water, depth from pipetop to well bottom, time of purging (start to end), volume of water purged, indication of whether the well was purged dry, time of sample withdrawal, and the following applicable field observations: pH, field conductivity, temperature, color, odor and turbidity, indication of whether field filtering was performed and time of filtering, indication of cap and lock replaced, and comments.

5.4.11 Notification of Attaining or Exceeding Groundwater Quality Standards

The permittee shall notify the Department when monitoring results indicate that a Preventive Action Limit or Enforcement Standard has been attained or exceeded. This notification may be provided in the general remarks section of the groundwater monitoring form or by letter attached to the groundwater monitoring form. Any values reported as exceeding a groundwater standard shall be confirmed as being from a representative sample and as a correct laboratory analysis result.

5.4.12 Preventive Action Limit (PAL) Exceedance

Analysis results (from the land treatment monitoring wells) that are less than this permit's PALs indicate that operation of the land treatment system is protective of groundwater quality. Substance concentrations that exhibit a trend over time of being greater than the PAL may indicate that additional technically and economically feasible actions are needed to reduce the discharge of the substance to the groundwater. In such a case, the Department may request an evaluation and response or propose a permit modification to require submittal of a groundwater evaluation report and implementation of a feasible response as specified in NR 140.24(1)(b), Wis. Adm. Code.

5.4.13 Enforcement Standard Exceedance Within the Design Management Zone

Substance concentrations greater than this permit's enforcement standard (ES) in a permittee's monitoring well located within the property boundary and within the design management zone of the land treatment system may indicate that the groundwater concentration exceeds an ES outside of these boundaries. If the Department determines there is reasonable evidence that an ES is being attained or exceeded beyond the property boundary or beyond the design management zone, the Department may request an evaluation and response or propose a permit modification to require an evaluation report and appropriate response as specified in s. NR 140.26, Wis. Adm. Code.

5.4.14 Enforcement Standard Exceedance Outside the Design Management Zone

The permittee's land treatment system shall not cause the concentration of a substance in groundwater to attain or exceed this permit's enforcement standard at any point of present groundwater use, at any point beyond the property boundary, or at any point beyond the design management zone established under s. NR 140.22, Wis. Adm. Code. When this condition is not met, **the permittee shall, within 120 days following notification by the Department of the attainment or exceedance of an ES beyond the compliance boundary, submit a groundwater quality evaluation and response report** as specified in NR 140.26(1)(b), Wis. Adm. Code. The Department may propose modification of this permit to require the permittee to implement additional treatment or other actions as specified in s. NR 140.26, Wis. Adm. Code.

5.5 Land Application Requirements

5.5.1 Sludge Management Program Standards And Requirements Based Upon Federally Promulgated Regulations

In the event that new federal sludge standards or regulations are promulgated, the permittee shall comply with the new sludge requirements by the dates established in the regulations, if required by federal law, even if the permit has not yet been modified to incorporate the new federal regulations.

5.5.2 General Sludge Management Information

The General Sludge Management Form 3400-48 shall be completed and submitted prior to any significant sludge management changes.

5.5.3 Sludge Samples

All sludge samples shall be collected at a point and in a manner which will yield sample results which are representative of the sludge being tested, and collected at the time which is appropriate for the specific test.

5.5.4 Land Application Characteristic Report

Each report shall consist of a Characteristic Form 3400-49 and Lab Report, unless approval for not submitting the lab reports has been given. Both reports shall be submitted by January 31 following each year of analysis.

The permittee shall use the following convention when reporting sludge monitoring results: Pollutant concentrations less than the limit of detection shall be reported as < (less than) the value of the limit of detection. For example, if a substance is not detected at a detection limit of 1.0 mg/kg, report the pollutant concentration as < 1.0 mg/kg .

All results shall be reported on a dry weight basis.

5.5.5 Monitoring and Calculating PCB Concentrations in Sludge

When sludge analysis for "PCB, Total Dry Wt" is required by this permit, the PCB concentration in the sludge shall be determined as follows.

Either congener-specific analysis or Aroclor analysis shall be used to determine the PCB concentration. The permittee may determine whether Aroclor or congener specific analysis is performed. Analyses shall be performed in accordance with the following provisions and Table EM in s. NR 219.04, Wis. Adm. Code.

- EPA Method 1668 may be used to test for all PCB congeners. If this method is employed, all PCB congeners shall be delineated. Non-detects shall be treated as zero. The values that are between the limit of detection and the limit of quantitation shall be used when calculating the total value of all congeners. All results shall be added together and the total PCB concentration by dry weight reported. **Note**: It is recognized that a number of the congeners will co-elute with others, so there will not be 209 results to sum.

- EPA Method 8082A shall be used for PCB-Aroclor analysis and may be used for congener specific analysis as well. If congener specific analysis is performed using Method 8082A, the list of congeners tested shall include at least congener numbers 5, 18, 31, 44, 52, 66, 87, 101, 110, 138, 141, 151, 153, 170, 180, 183, 187, and 206 plus any other additional congeners which might be reasonably expected to occur in the particular sample. For either type of analysis, the sample shall be extracted using the Soxhlet extraction (EPA Method 3540C) (or the Soxhlet Dean-Stark modification) or the pressurized fluid extraction (EPA Method 3545A). If Aroclor analysis is performed using Method 8082A, clean up steps of the extract shall be performed as necessary to remove interference and to achieve as close to a limit of detection of 0.11 mg/kg as possible. Reporting protocol, consistent with s. NR 106.07(6)(e), should be as follows: If all Aroclors are less than the LOD, then the Total PCB Dry Wt result should be reported as less than the highest LOD. If a single Aroclor is detected then that is what should be reported for the Total PCB result. If multiple Aroclors are detected, they should be summed and reported as Total PCBs. If congener specific analysis is done using Method 8082A, clean up steps of the extract shall be performed as necessary to remove interference and to achieve as close to a limit of detection of 0.003 mg/kg as possible for each congener. If the aforementioned limits of detection cannot be achieved after using the appropriate clean up techniques, a reporting limit that is achievable for the Aroclors or each congener for the sample shall be determined. This reporting limit shall be reported and qualified indicating the presence of an interference. The lab conducting the analysis shall perform as many of the following methods as necessary to remove interference:

3620C - Florisil	3611B - Alumina
3640A - Gel Permeation	3660B - Sulfur Clean Up (using copper shot instead of powder)
3630C - Silica Gel	3665A - Sulfuric Acid Clean Up

5.5.6 Land Application Report

Land Application Report Form 3400-55 shall be submitted by January 31, following each year non-exceptional quality sludge is land applied. Non-exceptional quality sludge is defined in s. NR 204.07(4), Wis. Adm. Code.

5.5.7 Other Methods of Disposal or Distribution Report

The permittee shall submit Report Form 3400-52 by January 31, following each year sludge is hauled, landfilled, incinerated, or when exceptional quality sludge is distributed or land applied.

5.5.8 Approval to Land Apply

Bulk non-exceptional quality sludge as defined in s. NR 204.07(4), Wis. Adm. Code, may not be applied to land without a written approval letter or Form 3400-122 from the Department unless the Permittee has obtained permission from the Department to self approve sites in accordance with s. NR 204.06 (6), Wis. Adm. Code. Analysis of sludge characteristics is required prior to land application. Application on frozen or snow covered ground is restricted to the extent specified in s. NR 204.07(3) (l), Wis. Adm. Code.

5.5.9 Soil Analysis Requirements

Each site requested for approval for land application must have the soil tested prior to use. Each approved site used for land application must subsequently be soil tested such that there is at least one valid soil test in the four years prior to land application. All soil sampling and submittal of information to the testing laboratory shall be done in accordance with UW Extension Bulletin A-2100. The testing shall be done by the UW Soils Lab in Madison or Marshfield, WI or at a lab approved by UW. The test results including the crop recommendations shall be submitted to the DNR contact listed for this permit, as they are available. Application rates shall be determined based on the crop nitrogen recommendations and with consideration for other sources of nitrogen applied to the site.

5.5.10 Land Application Site Evaluation

For non-exceptional quality sludge, as defined in s. NR 204.07(4), Wis. Adm. Code, a Land Application Site Request Form 3400-053 shall be submitted to the Department for the proposed land application site. The Department will evaluate the proposed site for acceptability and will either approve or deny use of the proposed site. The permittee may obtain permission to approve their own sites in accordance with s. NR 204.06(6), Wis. Adm. Code.

5.5.11 Class B Sludge: Fecal Coliform Limitation

Compliance with the fecal coliform limitation for Class B sludge shall be demonstrated by calculating the geometric mean of at least 7 separate samples. (Note that a Total Solids analysis must be done on each sample). The geometric mean shall be less than 2,000,000 MPN or CFU/g TS. Calculation of the geometric mean can be done using one of the following 2 methods.

Method 1:

Geometric Mean = $(X_1 \times X_2 \times X_3 \ldots \times X_n)^{1/n}$

Where X = Coliform Density value of the sludge sample, and where n = number of samples (at least 7)

Method 2:

Geometric Mean = antilog$[(X_1 + X_2 + X_3 \ldots + X_n) \div n]$

Where X = $\log_{10}$ of Coliform Density value of the sludge sample, and where n = number of samples (at least 7)

Example for Method 2

Sample Number	Coliform Density of Sludge Sample	$\log_{10}$
1	6.0×10^5	5.78
2	4.2×10^6	6.62
3	1.6×10^6	6.20
4	9.0×10^5	5.95
5	4.0×10^5	5.60
6	1.0×10^6	6.00
7	5.1×10^5	5.71

The geometric mean for the seven samples is determined by averaging the $\log_{10}$ values of the coliform density and taking the antilog of that value.

$(5.78 + 6.62 + 6.20 + 5.95 + 5.60 + 6.00 + 5.71) \div 7 = 5.98$

The antilog of $5.98 = 9.5 \times 10^5$

5.5.12 Class B Sludge - Vector Control: Injection

No significant amount of the sewage sludge shall be present on the land surface within one hour after the sludge is injected.

5.5.13 Class B Sludge - Vector Control: Incorporation

Class B sludge shall be incorporated within 6 hours of surface application, or as approved by the Department.

6 Summary of Reports Due

FOR INFORMATIONAL PURPOSES ONLY

Description	Date	Page
Compliance Maintenance Annual Reports (CMAR)	by June 30, each year	10
General Sludge Management Form 3400-48	prior to any significant sludge management changes	16
Characteristic Form 3400-49 and Lab Report	by January 31 following each year of analysis	16
Land Application Report Form 3400-55	by January 31, following each year non-exceptional quality sludge is land applied	17
Report Form 3400-52	by January 31, following each year sludge is hauled, landfilled, incinerated, or when exceptional quality sludge is distributed or land applied	17
Groundwater Monitoring Forms	no later than the date indicated on the form	14
Wastewater Discharge Monitoring Report Form	no later than the date indicated on the form	9

All submittals required by this permit shall be submitted to the South Central Region, 3911 Fish Hatchery Road, Fitchburg, WI 53711-5397, except as follows. Report forms shall be submitted to the address printed on the report form. Any facility plans or plans and specifications for municipal, industrial pretreatment and non industrial wastewater systems shall be submitted to the Regional Plan Reviewer (as designated at www.dnr.state.wi.us/org/water/wm/consultant.htm). Any construction plans and specifications for industrial wastewater systems shall be submitted to the Bureau of Watershed Management, P.O. Box 7921, Madison, WI 53707-7921.

APPENDIX G

LOCAL CONNECTION PERMIT FORM

LOCAL CONNECTION PERMIT APPLICATION

DEKORRA UTILITY DISTRICT #1
Dekorra Township, P.O. Box 536, Poynette, WI 53955

PARCEL #_____ STREET ADDRESS_____

LOT_____ BLOCK_____ADDITION_____ FIRE #_____

_____

OWNER_____ PHONE_____

ADDRESS_____

BUILDER_____ PHONE_____

ADDRESS_____

PLUMBER _____ PHONE_____

ADDRESS_____

REGULATIONS OF SEWER USE AND CONNECTION

IN CONSIDERATION OF THE GRANTING OF THIS PERMIT, THE OWNER & UNDERSIGNED HEREBY AGREE:

1. To Accept And Abide By All The Provisions Of The Town And Utility District And Any And All Future Pertinent Ordinances And Regulations That The District May Adopt.
2. To Maintain The Building Sewer At No Expense To The District.
3. To Assume Responsibility For The Correct Connection Into The System And That All Plumbing Meets All State, Town And Utility District Codes And Regulations.
4. To Assume Responsibility For Returning The Roadway and/Or Right-Of-Way Affected By The Connection To The Same Condition It Was Prior To The Connection Work.
5. That Billing For Dekorra U.D. Customers Will Commence Upon Meter Installation.
6. **That I Will Ensure That Part 2 Is Completed And Returned To The Utility District Office.**
7. **THIS PERMIT IS VALID FOR LATERAL HOOKUP ONLY. ANY WORK INVOLVING A MAIN MUST HAVE SITE INSPECTION REVIEW FROM THE UTILITY DISTRICT ENGINEER.**

DATE_____ APPLICANT SIGNATURE_____

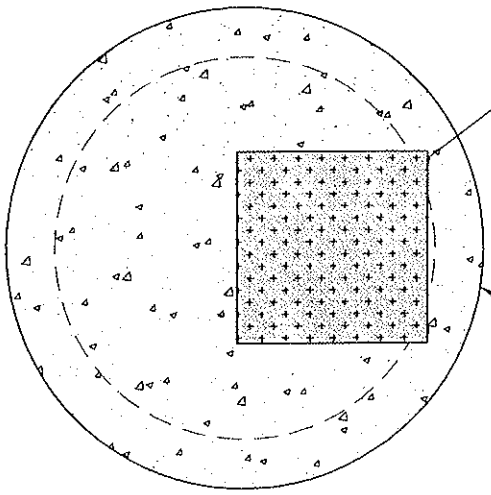
APPLICATION APPROVED AND PERMIT ISSUED

DATE_____ CERTIFICATION_____
DISTRICT CLERK

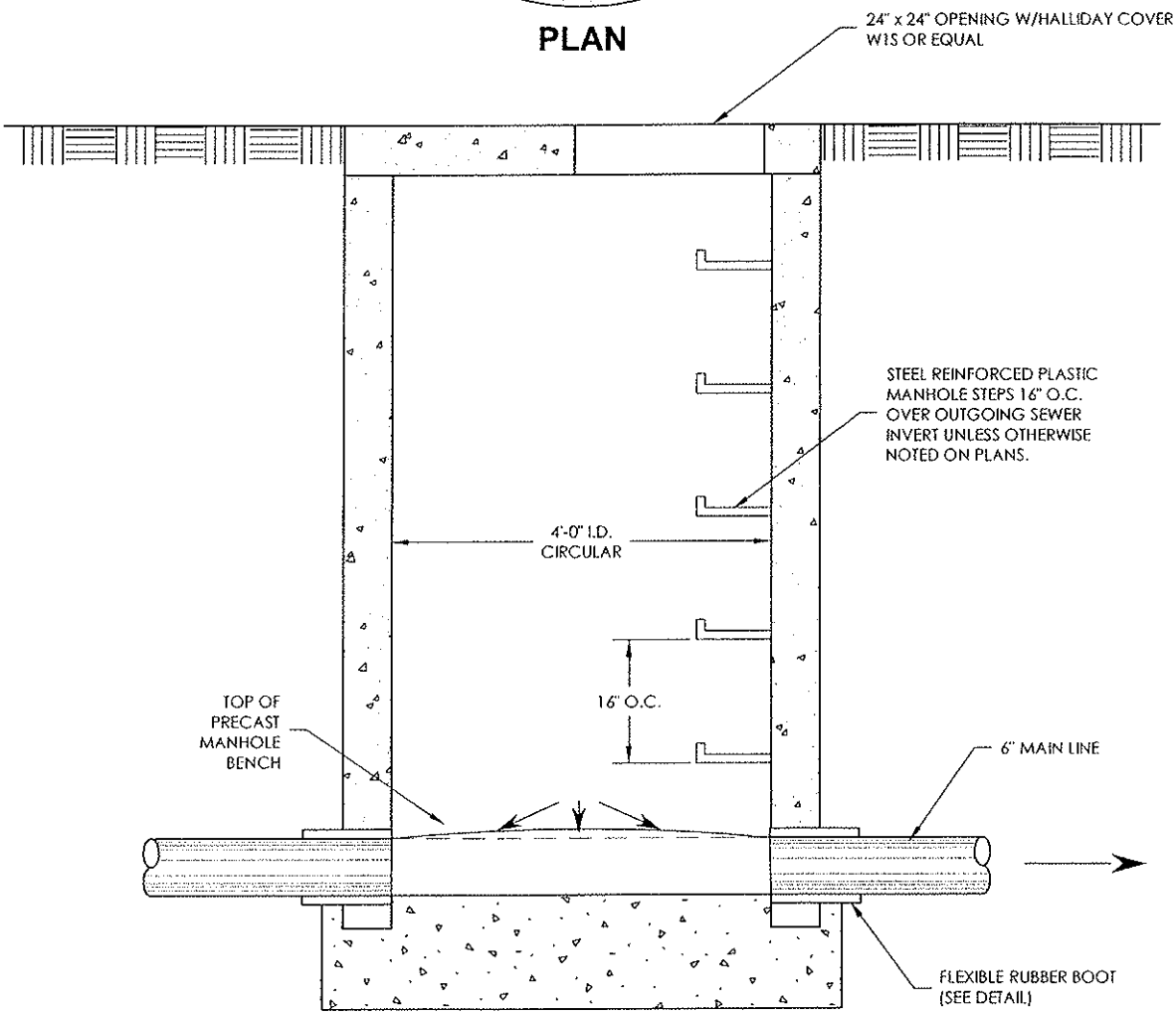
PERMIT FEE PAID $_____ CONNECTION FEE PAID $_____

APPENDIX H

CONTROL MANHOLE DETAIL



PLAN



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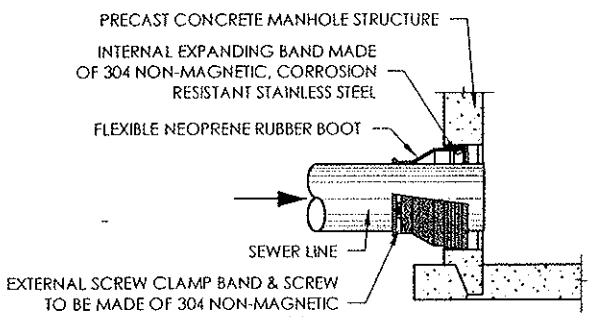

DETAIL

CONTROL MANHOLE
Town of Dekorra
Utility District

Town of Dekorra
Columbia County, WI

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BY SRR
GEC FILE NO.

SHEET TITLE
1.0