



FOND DU LAC
WASTEWATER TREATMENT
& RESOURCE RECOVERY FACILITY

Why We Chose the Multi Discharger Variance (MDV)

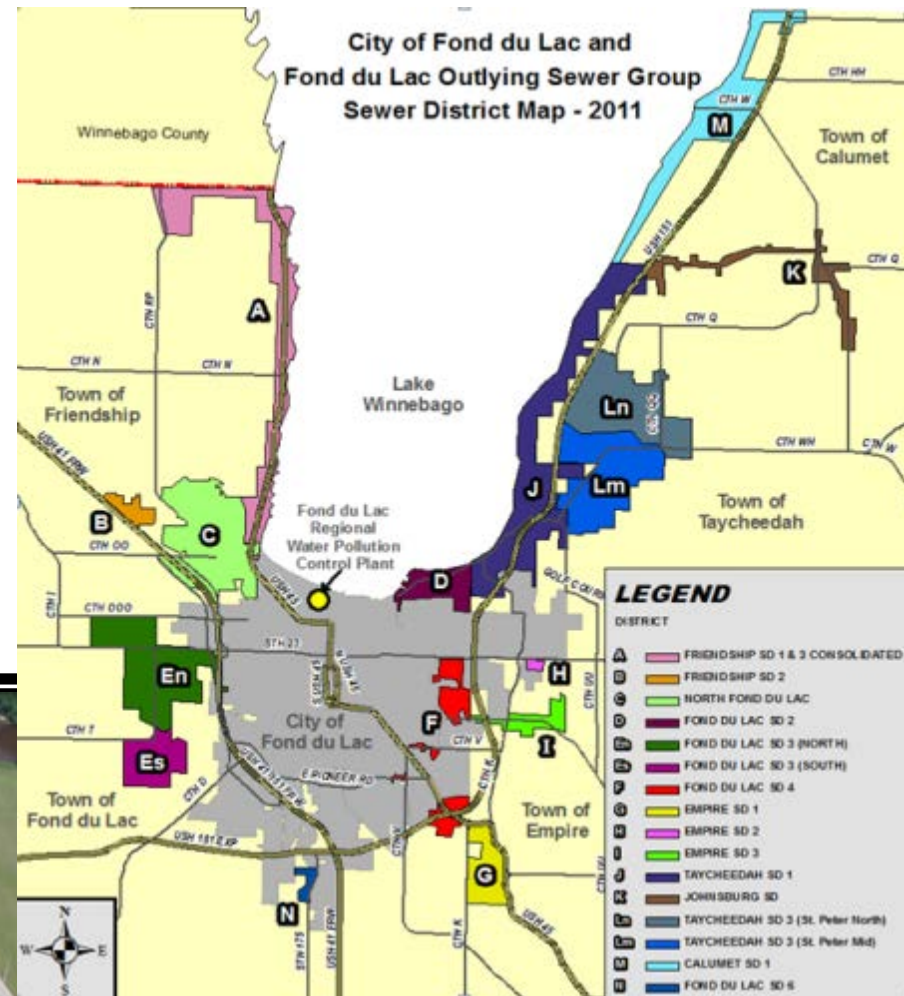
Government Affairs Seminar

February 22, 2018

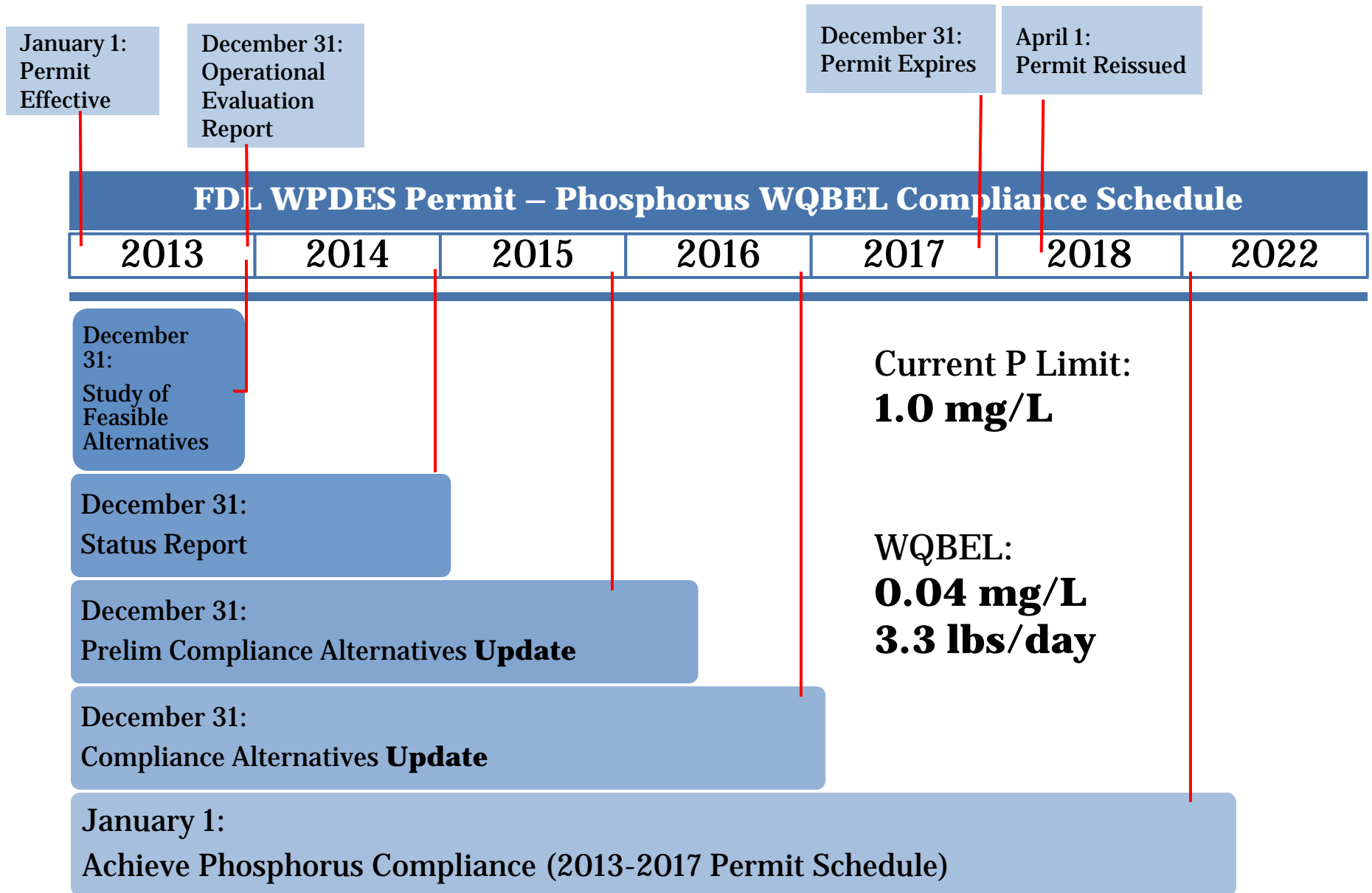
Presented by: Autumn Fisher, Superintendent

Introduction and Background

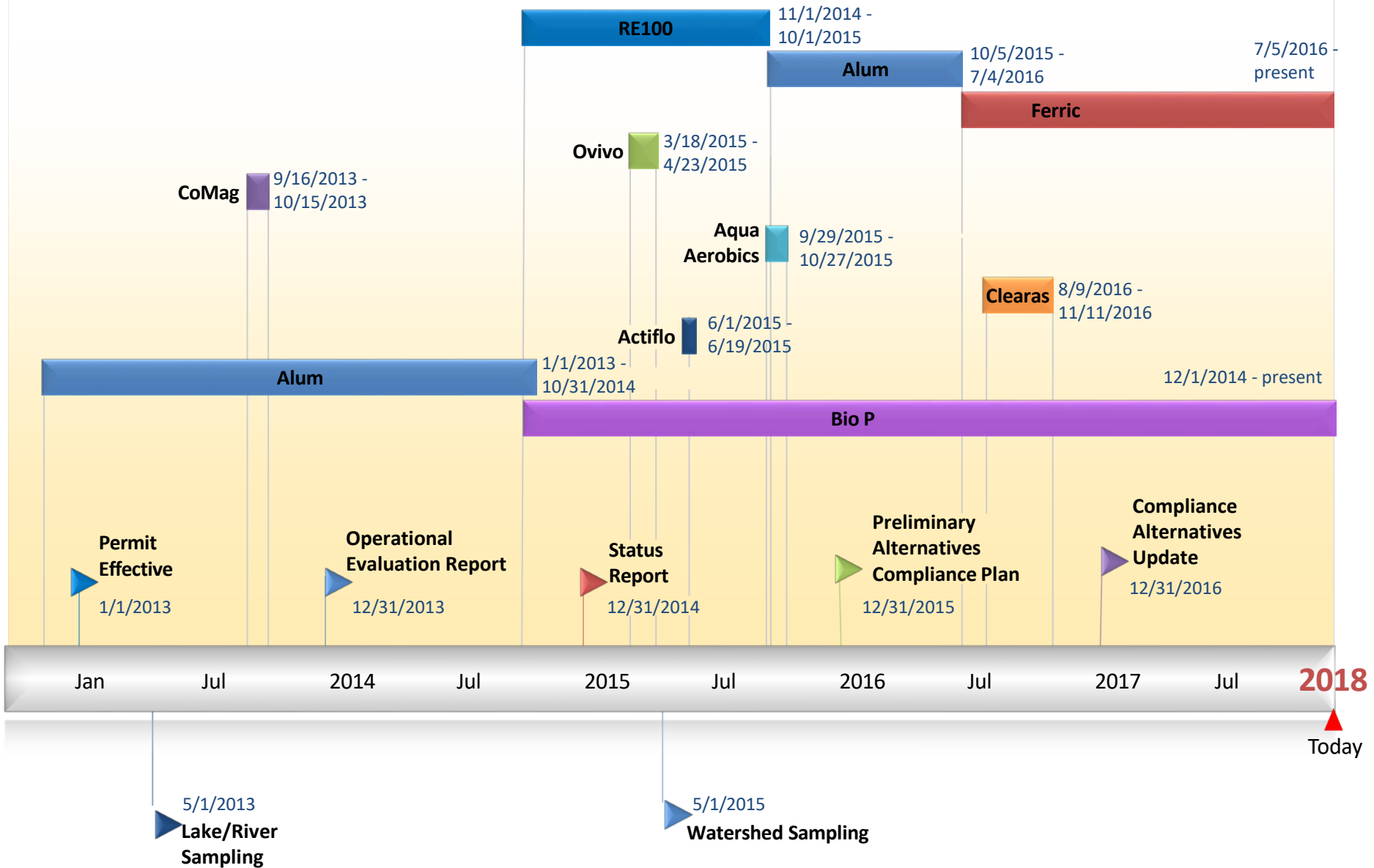
- Regional Facility
 - Fond du Lac
 - 18 Outlying Communities
- Average Flow: 8 MGD
- Approx. Population: 65,000



Current Phosphorus Compliance Schedule



Study of Feasible Alternatives



Total Maximum Daily Load (TMDL) Timeline Implications

- All evaluations to date based on 0.04 mg/L Water Quality Based Effluent Limit (WQBEL)
- Original final compliance plan due December 31, 2016
 - DNR has been flexible in report submissions
- Waste Load Allocations expected mid to late 2018
 - On-going conversations in conjunction with the City of Oshkosh
 - Separate meetings with DNR
 - Comments submitted to DNR after each TMDL stakeholder meeting
- Legal advice has been sought but no specific action taken

Preliminary Alternatives Cost Summary

Alternative	20-Year Present Worth Cost
Advance TP Removal	\$34,000,000 – 113,000,000
Ballasted Settling, Algae, Filtration	
Watershed Adaptive Management (AM)	\$ 19,400,000
Water Quality Trading (WQT)	\$ 18,000,000
Tertiary and WQT Combination	\$21,200,000 – 39,390,000
Multi Discharger Variance	\$ 8,000,000

The Decision

- Easiest to administer at this time
- Multi Discharger Variance (MDV) was the cheapest alternative
- P limit is a moving target until TMDL is complete
 - Buys us time
- Flexibility to use for one or multiple permit terms up to expiration date
- Buy in from various stakeholders
 - City Council
 - Outlying Sewer Group
 - County participation

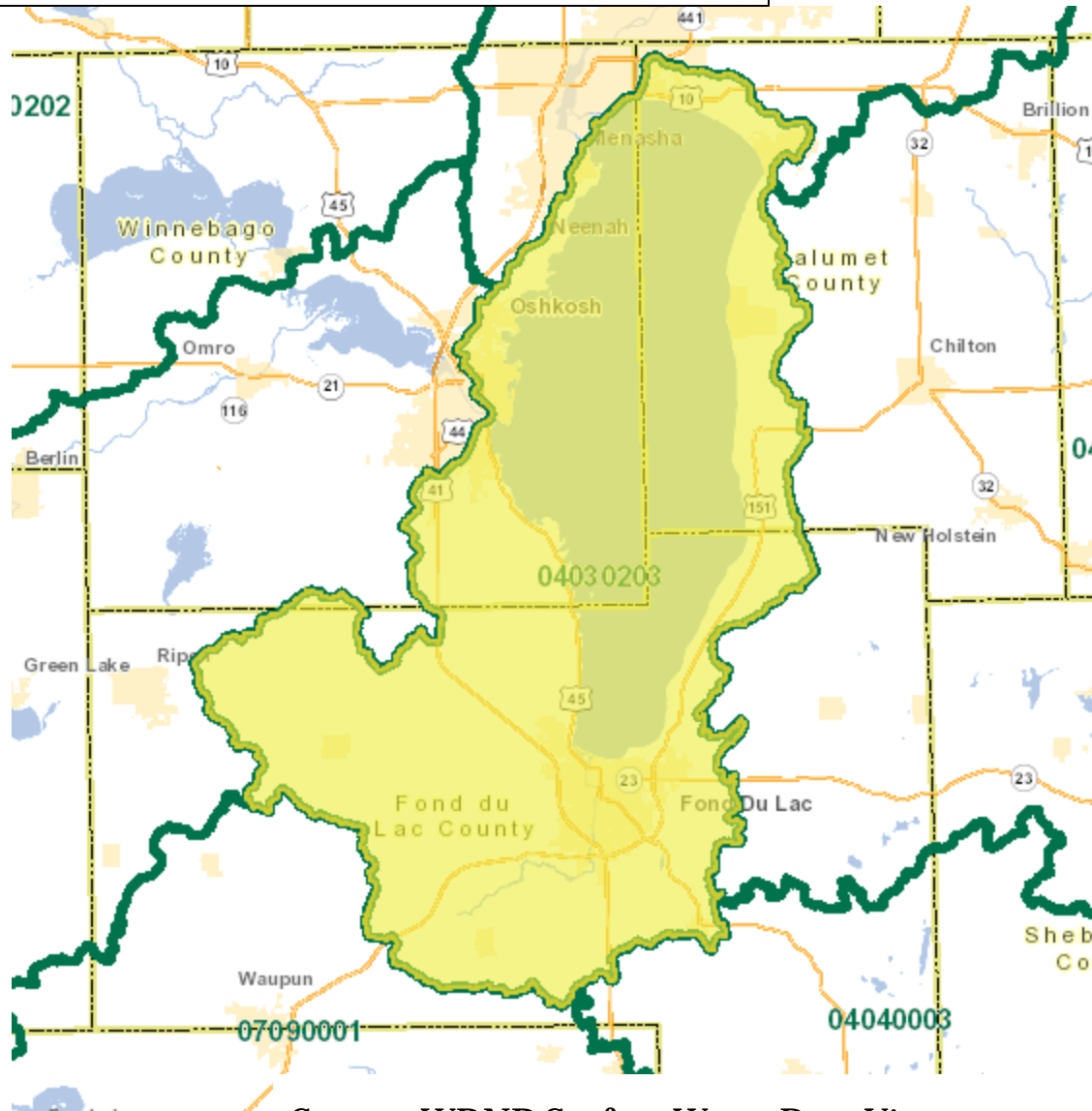
MDV for FDL

- Goes in effect for FDL April 1, 2018
- First payment due March 1, 2019
 - Payment 1 term covers April 1 – December 31, 2018
 - Interim limit: **0.8 mg/L**
 - Lower limit for calculation: **0.2 mg/L**
 - 2018 / lb rate: **\$52.02**

Item	Date
Current Permit Expires	12/31/2017
New Permit Issued	4/1/2018
Permit Expires	3/31/2023
Next Permit Cycle	~4/1/2023 – 3/31/2028
MDV Expires (Potential Extension)	2/2027

Lake Winnebago HUC 8

- Fond du Lac County
 - 53%
- Winnebago County
 - 25%
- Calumet County
 - 22%



Source: WDNR Surface Water Data Viewer

DNR County Payment Projections

- Projections assumed all counties in these HUC 8s participate
- 2017 rate = \$51.10
- 94% of projected total for these 3 counties is expected to come from FDL WTRRF

WPDES Facility	HUC 8	Total Lbs	Total \$\$
Abbotsford	7070002	26.86009097	\$1,372.55
Appleton Co	4030204	2346.125591	\$119,887.02
Auburndale	7070002	779.1249985	\$39,813.29
Bagley	7060003	296.8572891	\$15,169.41
Barneveld	7090003	1213.60654	\$62,015.29
Benton	7060005	471.9579844	\$24,117.05
Black River Falls	7040007	887.1731091	\$45,334.55
Blue River	7070005	124.1803576	\$6,345.62
Cadott	7050005	75.03867205	\$3,834.48
Colby	7070002	53.65558143	\$2,741.80
Domtar	7070003	3708.83136	\$189,521.28
Ellsworth	7040001	<u>424.3916415</u>	\$21,686.41
FFUSA-Chilton	4030101	245.1265591	\$12,525.97
Fond du Lac	4030203	6800.880267	\$347,524.98
Hillshire	4030202	<u>301.8021886</u>	\$15,422.09
Linden	7090003	106.1612465	\$5,424.87
Livingston	7060003	190.8391257	\$9,751.87
Milan	7070002	<u>364.7396526</u>	\$18,638.27
Patch Grove	7060003	204.282412	\$10,438.87
Phillips City	7050003	98.0816402	\$5,011.97
Reedsburg	7070004	1893.719247	\$96,769.07
Rewey	7090003	151.3087986	\$7,731.87
Twin Lakes	7120006	271.8368065	\$13,890.87
Viroqua	7060001	124.5842986	\$6,366.27

County	Projection
Calumet	\$85,747.91
Fond du Lac	\$186,424.70
Winnebago	\$96,175.91
Total	\$368,348.52

Stakeholder Relationships

- Participation conversations have focused on FDL county but Calumet and Winnebago counties will also receive funds
- Initial hesitation from FDL county because of staffing shortage and workload concerns
 - Efforts have to still include normal activities and not just HUC 8 land area
 - 250,000 farmable acres in FDL county
- Most likely considered a “small scale plan” for FDL because MDV fund projections are <\$200,000
 - No county resolution or vote has taken place yet
 - Most likely use a 9 key element plan

Stakeholder Relationships

- 2019 FDL County funds likely to be used with project in progress
(Pipe Creek)
 - Currently funded by \$175,000 Great Lakes Commission Grant
 - Participants must have nutrient management plan in place to receive cost-share
 - All grant funds have been “used” so MDV payment will help continue work
- Use Pipe Creek as template
 - Additional 9 key element plans for new focus areas

Fond du Lac WTRRF Involvement

- Involved in conversations about future plans and focus areas
 - Engage Winnebago and Calumet counties
- Water quality monitoring – WTRRF provide sampling and analysis services
- Provide intern or other staffing as budgets allow
- Set P reduction goals
 - Plans to use SNAP Plus and EPA's Spreadsheet Tool for Estimating Pollutant Loads (STEPL)

Moving Forward

**New Permit
4/1/2018**

- **0.8 mg/L interim P limit**
- **MDV begins for FDL**

**TMDL
Complete
Summer 2018?**

- **Obtain Waste Load Allocation**

**2019 and
Beyond**

- **Continue compliance evaluation based on WLA**
- **Facility Master Planning**
- **Decide whether to continue MDV beyond 2023 or select a tertiary and/or watershed approach**

Acknowledgements

- Fond du Lac WTRRF Staff
- Fond du Lac County LWCD
- Strand Associates, Inc.

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