

NEW Water Quarterly Update

December 3, 2015



Agenda

- 2016 Budget
- R2E2
- Disinfection Project
- Adaptive Management: Silver Creek Project
- FOG (Fats, Oils, and Grease): Keep them out of your drains!

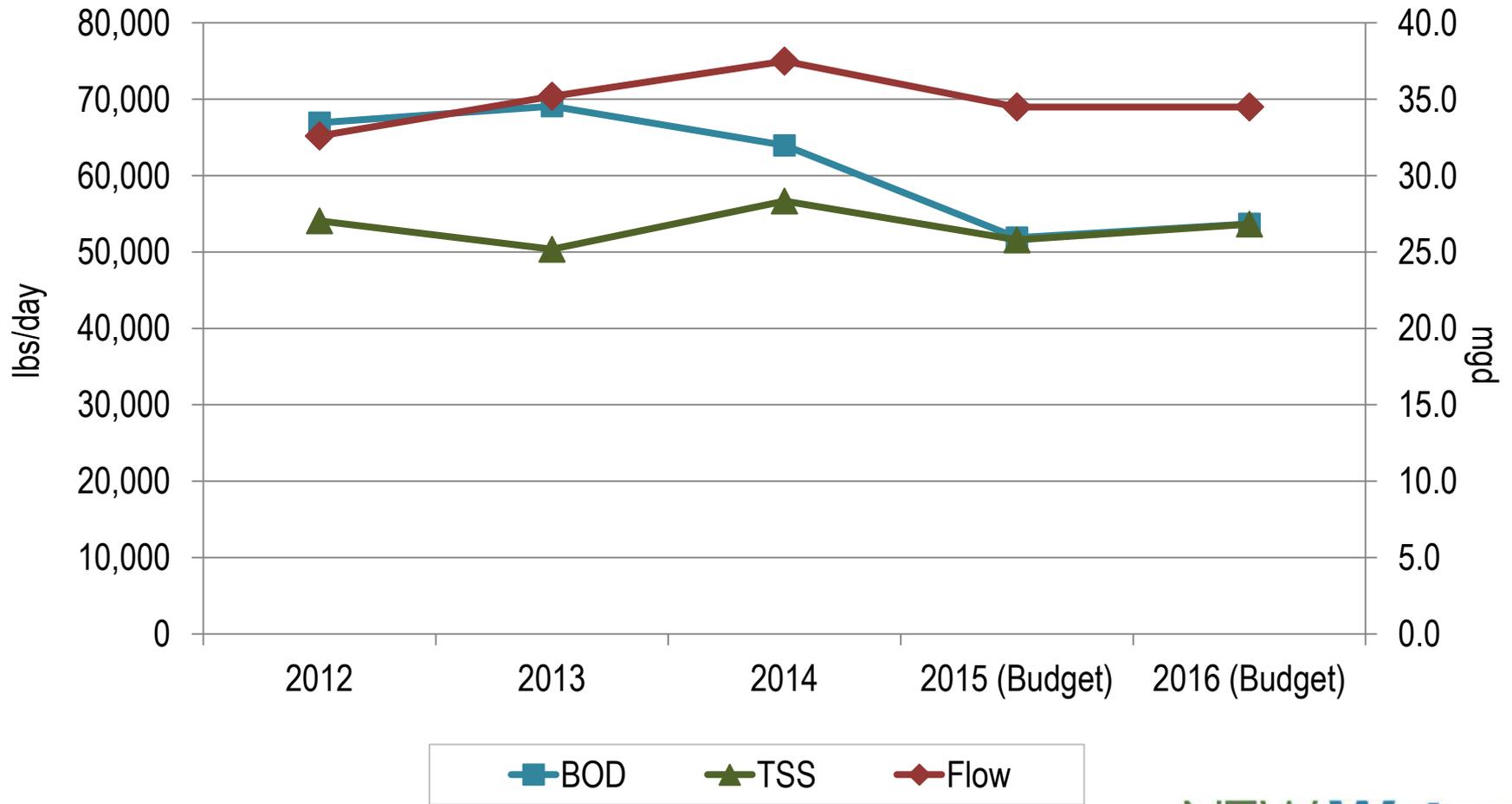


NEW Water 2016 Budget





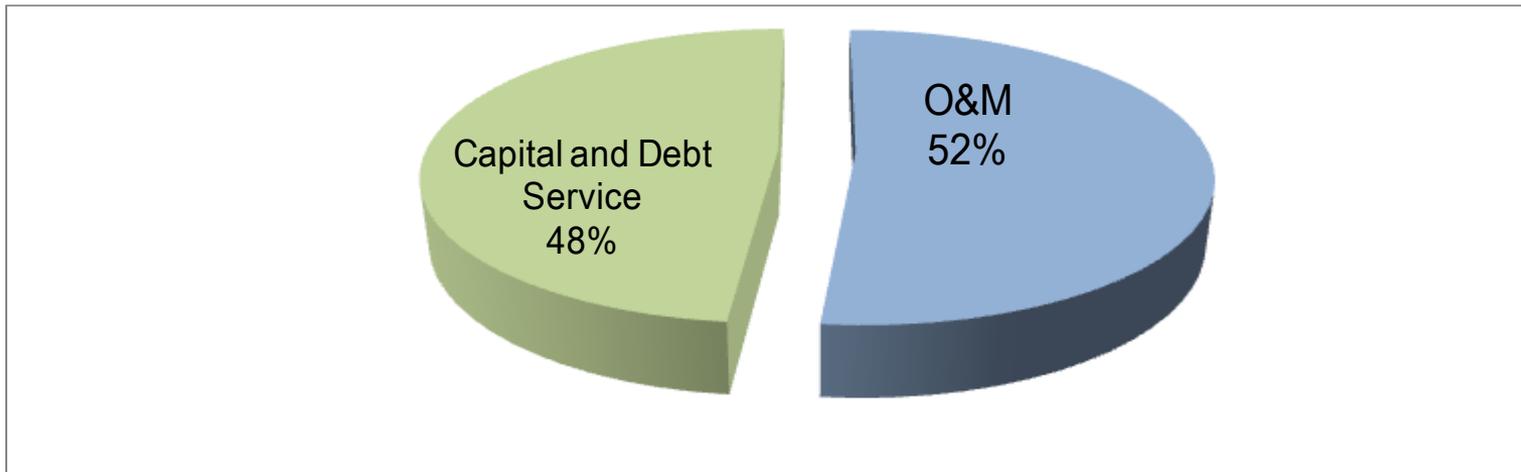
Flows and Loads





2016 Budgeted Expenses

Budget Category	2015 Budget	2015 Projected	2016 Budget
Operations & Maintenance (O&M)	\$19,014,538	\$18,461,524	\$19,652,749
Debt Service and Annual Capital	\$16,312,247	\$16,639,346	\$18,414,983
Total Expenses	\$35,326,785	\$35,100,870	\$38,067,732





2016 Municipal Rate

Parameter	2015 Rate	2016 Rate	% Change
Volume (1,000 gals)	\$0.8045	\$0.7936	(1.4)%
Biochemical Oxygen Demand (lbs)	\$0.3933	\$0.4307	9.5%
Suspended Solids (lbs)	\$0.3482	\$0.4129	18.6%
Phosphorus (lbs)	\$0.5677	\$0.6060	6.7%
Total Kjeldahl Nitrogen (lbs)	\$0.6536	\$0.6404	(2.0)%
Fixed Charge	\$0.5266	\$0.5458	3.6%
Total Combined Rate (1,000 gals)	\$2.8973	\$3.0742	6.1%



R2E2 Contract 34 Update

- Project to construct Anaerobic Digestion & Solids Facility
- Completed storm water treatment pond
- Excavation of new solids building & digester area underway
- Deductive Change Orders #1 and 2 have saved \$1,237,784





Contract 34 Timeline

- August 2015 – Contractor mobilization
- January 2018 – Solids facility including dewatering & incineration
- March 2018 – Digestion & biogas facilities
- August 2018 – Final completion

Site Preparation for Digesters



Site Preparation for Solids Facility



Site Preparation for Solids Facility



HSW Storage Tank - Repurposed



New Site Storm Water Treatment



New Site Storm Water Treatment



New Site Storm Water Treatment





GBF Disinfection Project Update

- Replacing chemical disinfection & dechlorination equipment and piping
- Significant demolition completed
- Dechlorination piping installation underway
- Day tank area construction
- Substantial completion expected April 1, 2016

New Dechlorination Piping



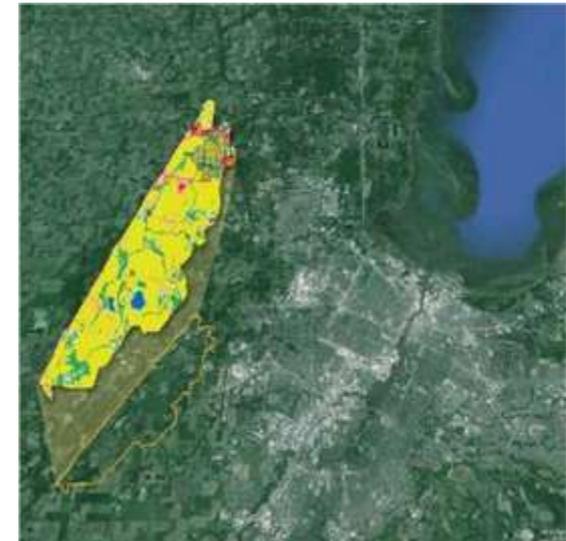
Old Chemical Feed Equipment Removed



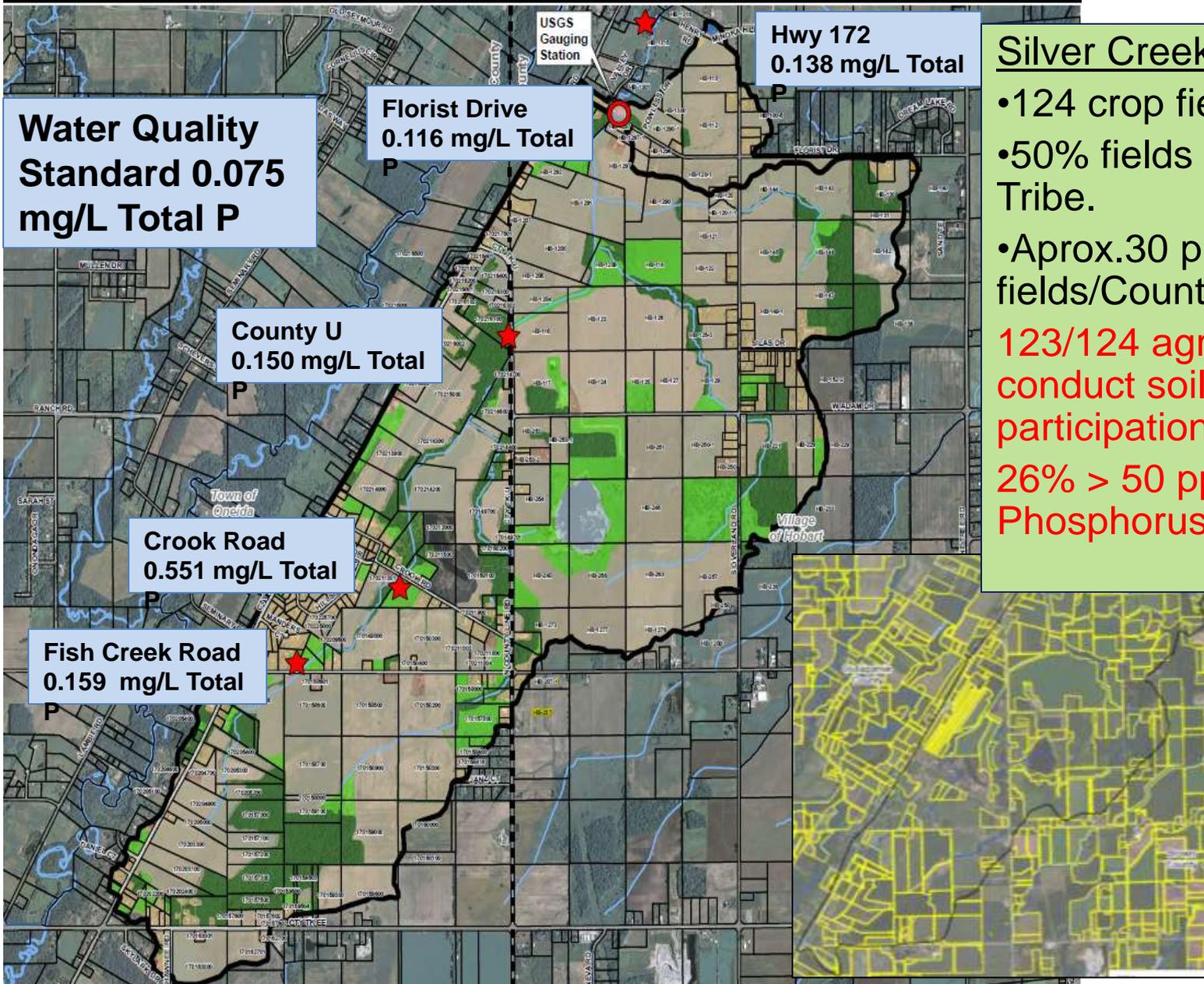


Progress?

- Coordination of partnerships work in Pilot.
- Inventory – before and after implementation.
- Grants - NRDA, Ducks Unlimited, EPA, Fund for Lake Michigan.
- Water quality monitoring – start in fall of 2013.
- Soil samples at 2.5 acre grids – 2014.
- Conservation planning – 2015,2016.
(5-7 conservation practices/field)
- GIS development - 2015.
- Snap plus modeling 2015,2018.
- Implementation 2015,2016,2017.



Water Quality Monitoring: 2014 Season Averages



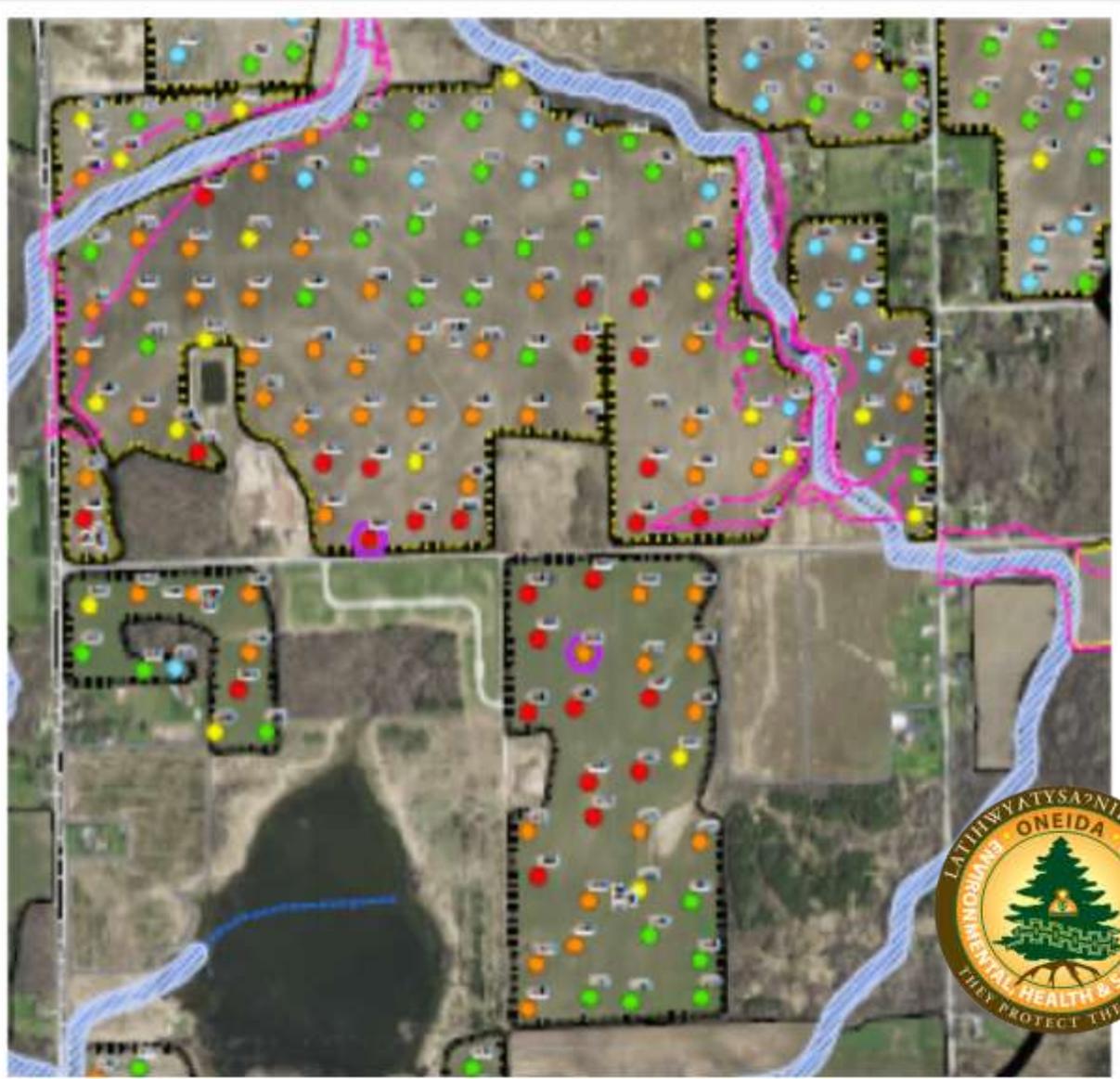
Silver Creek

- 124 crop fields
- 50% fields Oneida Tribe.
- Aprox.30 private fields/County.

123/124 agreement to conduct soil tests 99.2% participation.
26% > 50 ppm Phosphorus in Soil tests.



Soil Sampling - Phosphorus, Biological Assessment



LEGEND

Sample Point

Fall 2014, Lab Results for P (ppm)

- 3 - 15
- 16 - 30
- 31 - 50
- 51 - 100
- 101 - 500



Jim Snitgen, Biologist - Oneida Tribe





- **What have we learned – So far:**

- Conservation Practices that have an economic benefit to farmer attractive. (Manure Storage, Barnyards, Nutrient Management)
- Building one on one relationships with agriculture producers.
- Buffer Strips work. (Minnesota Pollution Control Agency study 3,500 streams – improve aquatic life)
- Nutrient Management needed to improve water quality.
- Water quality Monitoring and Soil Testing important.
- Partnerships. (agencies, environmental organizations, people)
- Simple - Conservation Plans - Maps



Wants /Needs/ Desires:

Want- Learn from Pilot best way to proceed.

Want- To collaborate with other Adaptive Management projects to provide consistent and constructive feedback to DNR as projects learn and adapt.

Need -Adequate staff -1 technical staff needed per 20,000 acres cropland.

Need -Time, representative weather.

Desire- Develop framework for successful project that results in water quality and biological response.

Desire- Sustainable permanent decisions.

Desire- Spend the least amount of dollars to accomplish the greatest water quality. **Benefit our rate payers , community, water quality.**

Desire- Continue to build watershed partnerships: Industry, AG, Storm water, Wastewater, Community leaders.



Helpful Household Tip!

FOG: Keep It Out of Your Drains

- Holiday season cooking reminder / WBAY-TV
- Keep FOG out of your dishwasher, sinks, etc.
 - *Storage in a coffee can; wipe pans with paper towel*
- Brown County Household Hazardous Waste accepts oil
- To learn more:
www.newwater.us/education/love-your-pipes/





Questions/Comments?

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