

Yahara Chain of Lakes Lake Management Quarterly Update

December 5, 2019

Current Water Levels

Lake	Date	Lake Level	Winter Min	100-year
Mendota	12/4/2019	849.71	848.20	852.8
Monona	12/5/2019	846.05	842.20	847.7
Waubesa	12/5/2019	845.63	842.00	847.0
Kegonsa	12/5/2019	844.04	841.85	845.2

<https://lwr.d.countyofdane.com/Lake-Levels>



Number of Days within Summer Minimum and Maximum Levels

March 1 – October 31 (245 days)

Lake	Average (2008-2018)	2019
Mendota	99	22
Monona	52	11
Waubesa	76	13
Kegonsa	145	23
Stoughton Dam	-	243

Aquatic Plant Harvesting



2019 Aquatic Plant Management Harvest Report

Annual Mechanical Harvest Summary (2/28/2019 to 9/26/2019)

	Hours	(%)	Loads*	(%)	Wet Weight (t)**	Dry Weight (t)**	Phosphorus(lbs)**
InterLake							
6 Daily Logs	36.0	0.9%	10.0	0.5%	46	5	26
Kegonsa							
36 Daily Logs	198.5	4.7%	145.0	6.9%	667	67	381
Mendota							
98 Daily Logs	588.0	14.0%	380.5	18.2%	1,750	175	999
Monona							
166 Daily Logs	992.0	23.6%	465.0	22.2%	2,139	214	1,221
Waubesa							
27 Daily Logs	156.5	3.7%	81.0	3.9%	373	37	213
Wingra							
5 Daily Logs	30.0	0.7%	20.0	1.0%	92	9	53
Yahara River							
242 Daily Logs	1,414.0	33.6%	666.0	31.8%	3,064	306	1,749
Yahara River Lower							
133 Daily Logs	796.0	18.9%	324.0	15.5%	1,490	149	851
Total	4,211		2,092		9,621	962	5,494

Private Deposit Site Loads

All 22

Public Deposit Site Loads

Other	2,070	Park Site	0
Westport	0	Highway 12	0

* Loads are harvester loads, estimated by staff to the nearest half load. All other reported quantities are derived from loads.

** Weight is expressed in US tons or pounds as noted; Each harvester load is assumed to yield 9200lbs of bulk vegetation at 90% water content (10% plant solids). Phosphorus content of the plant solids is assumed to be ~2900 ppm, (i.e. ~1lb of P for every 350 lb of plant solids).

Slow No Wake Status

Lake	Issued	Rescinded
Mendota	10/3/19	10/30/19
Monona	9/23/19	11/12/19
Waubesa	9/23/19	11/12/19
Kegonsa	10/3/19	11/15/19



Slow-no-wake Restriction Map

Green Lake = Normal Slow-no-wake Restrictions

Yellow Lake = Emergency Order: slow-no-wake within 500 feet of shore

Red Lake = Emergency Order: slow-no-wake entire surface area

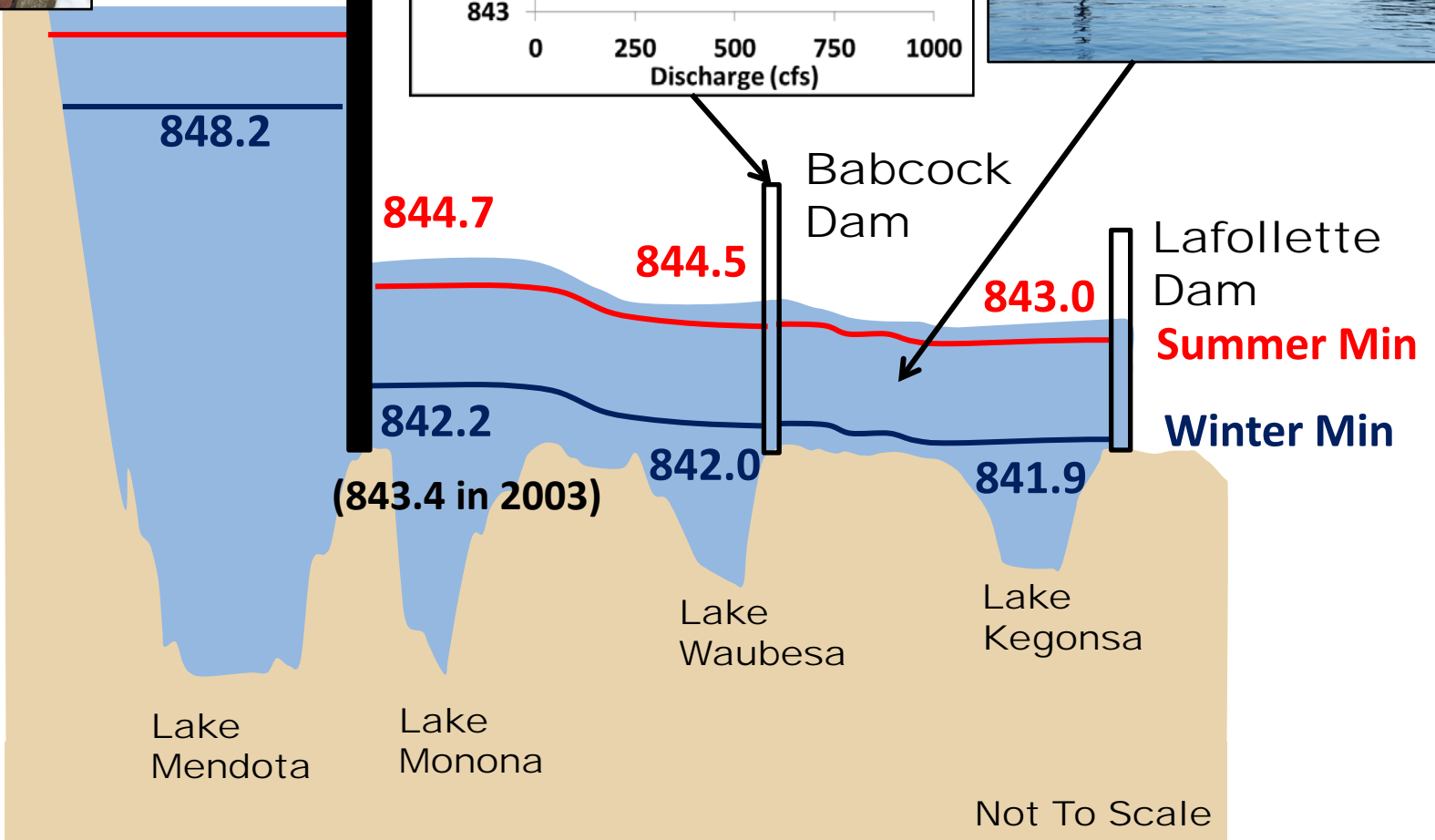
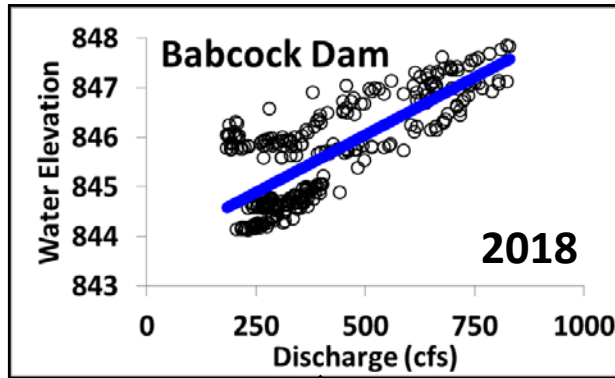
<https://lwr.d.countyofdane.com/slownowake#>

Winter Operations

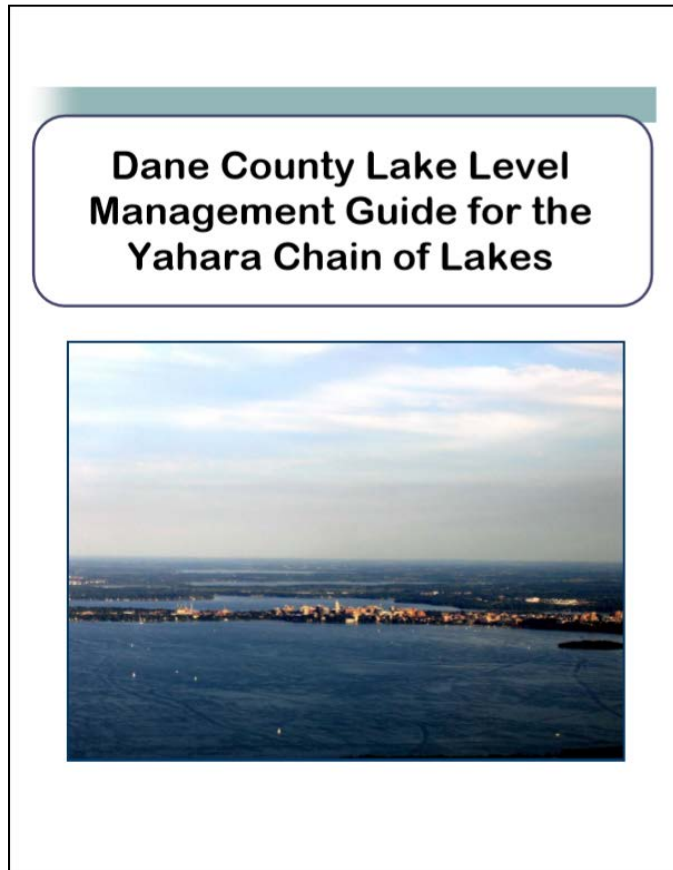


Tenney Dam

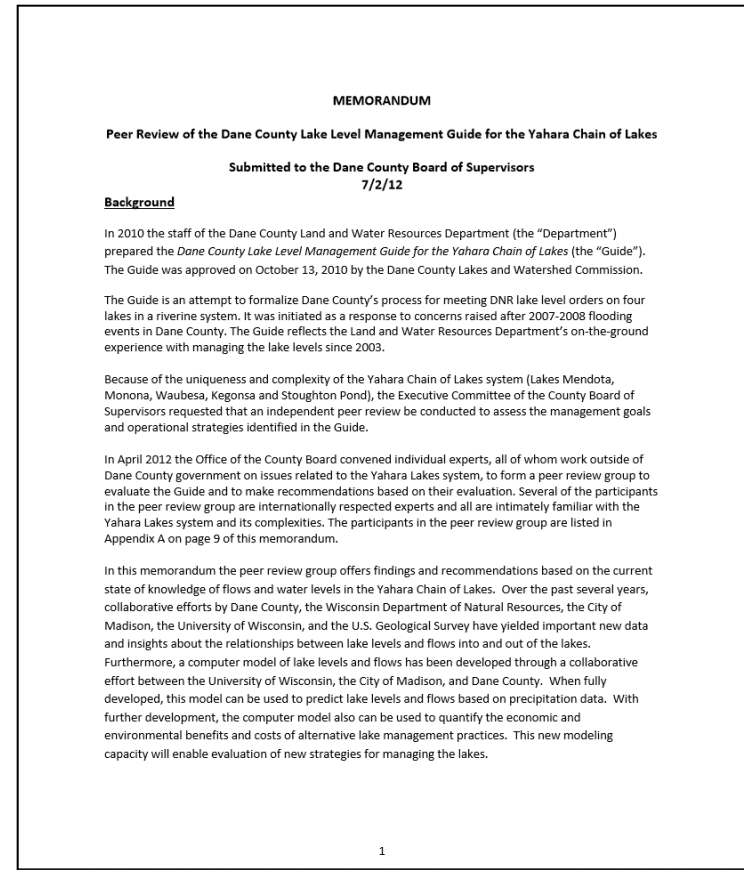
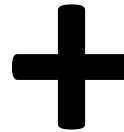
849.6



Task Force Recommendation: Lake Management Guide Update

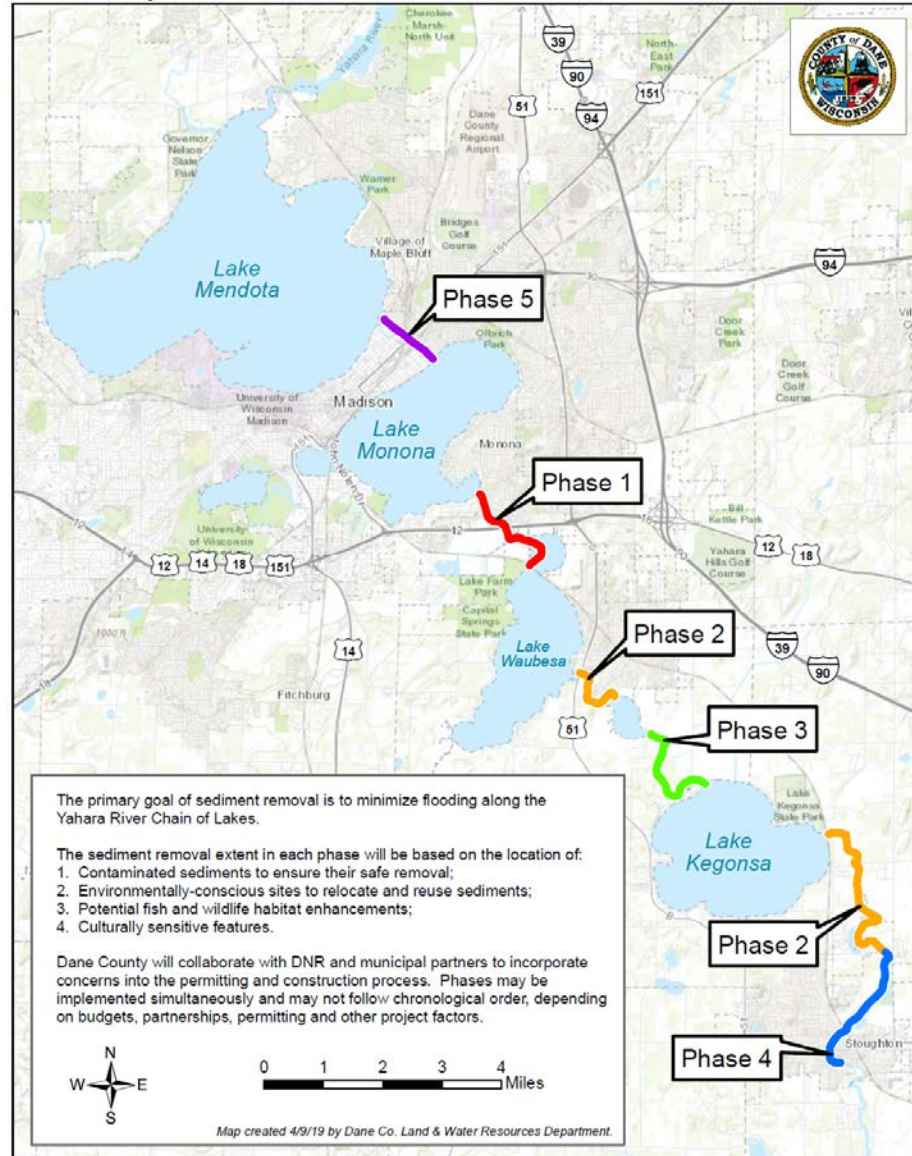


2010

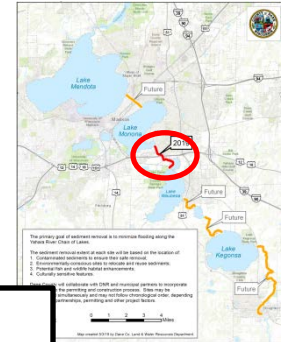


2012

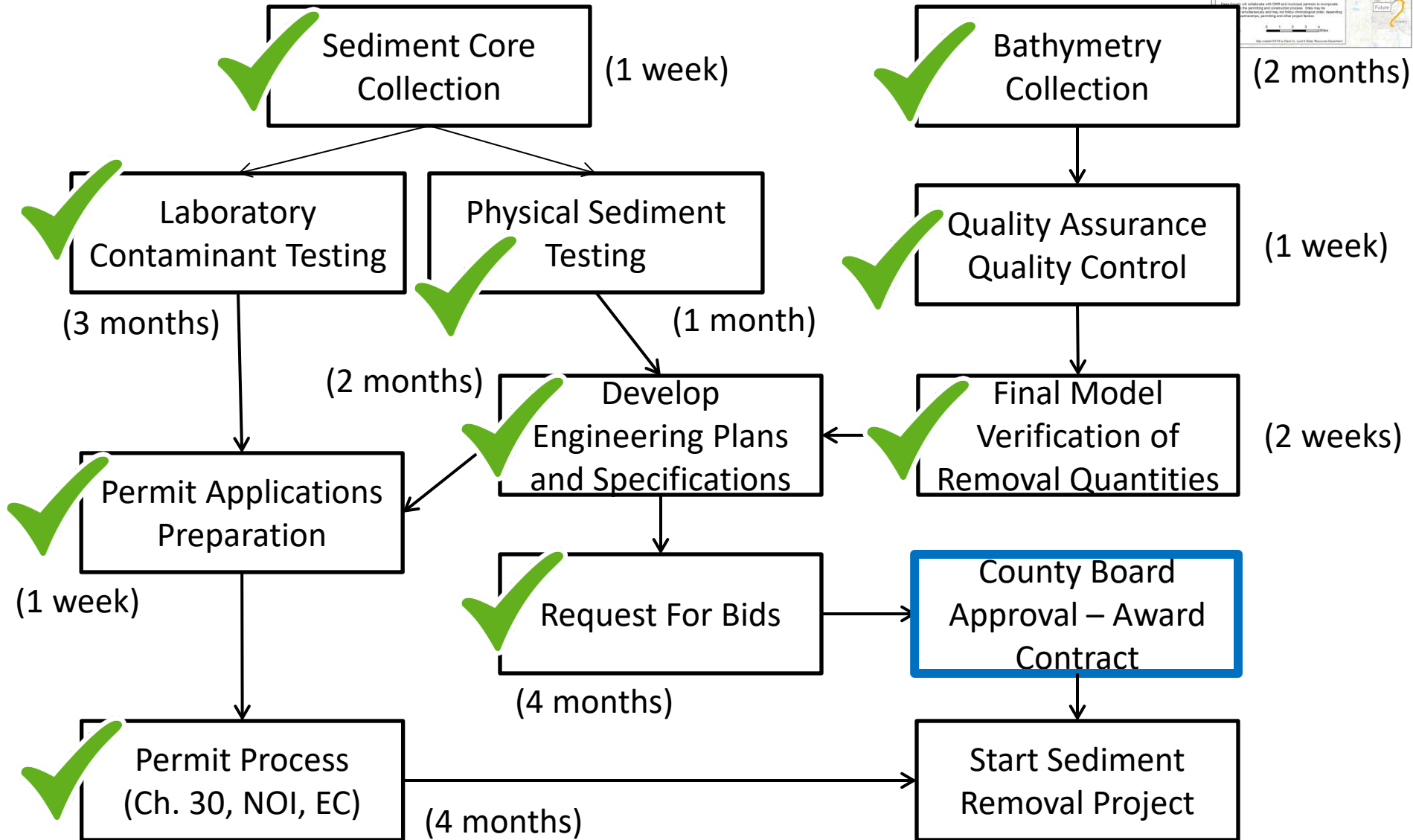
Task Force Recommendation: Sediment Removal



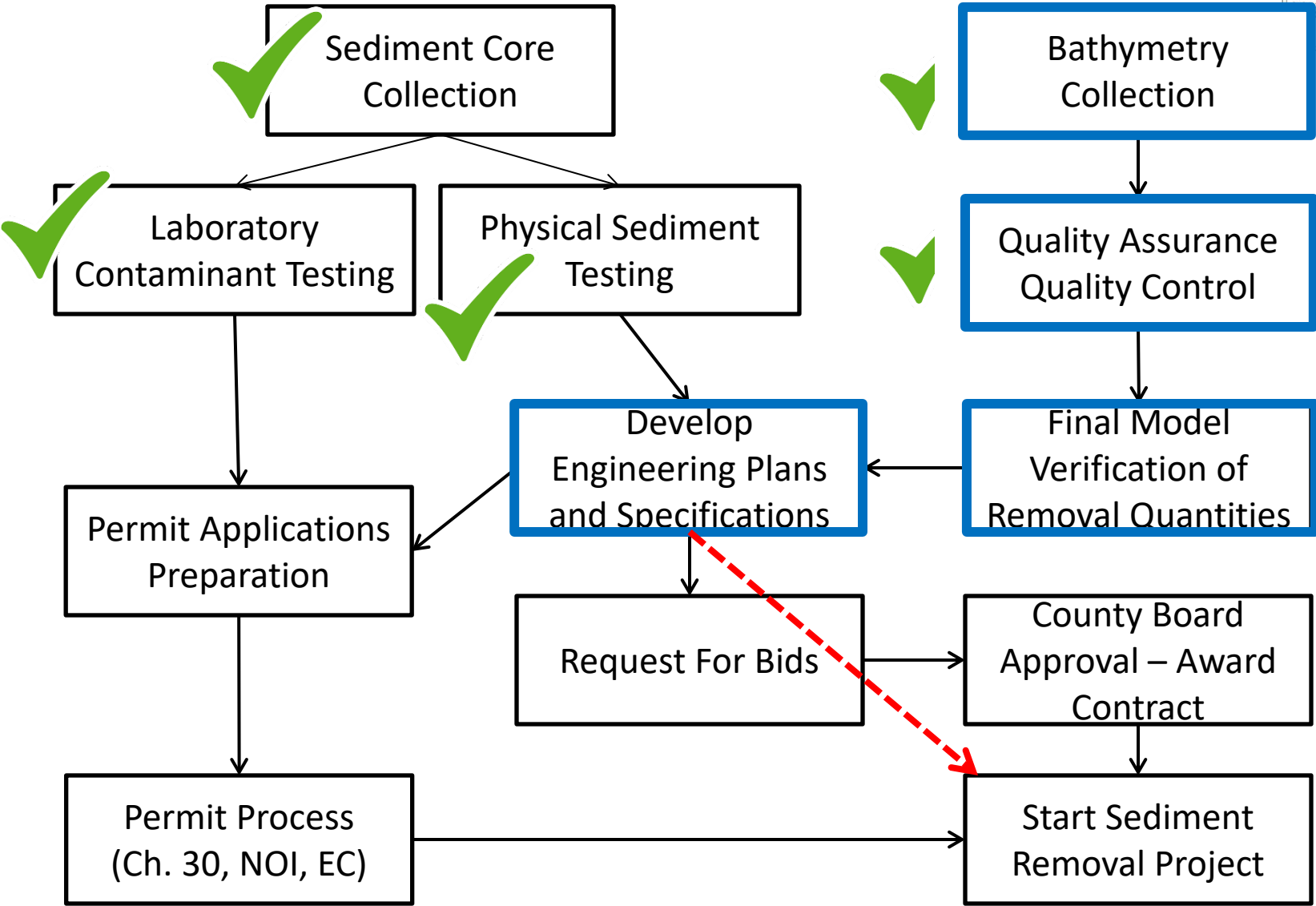
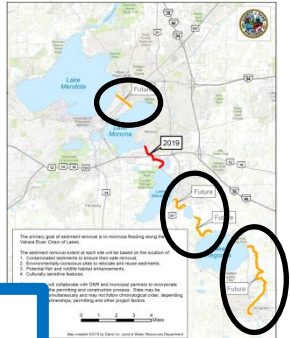
2019 Sediment Removal



(times approximate – Monona to Waubesa)



Future Sediment Removal



~220 miles

Questions?