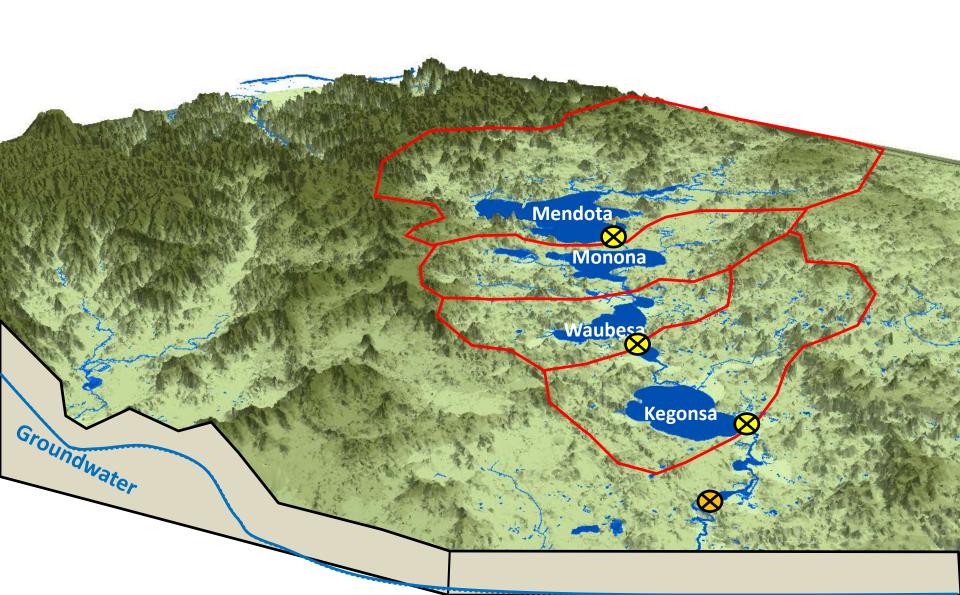
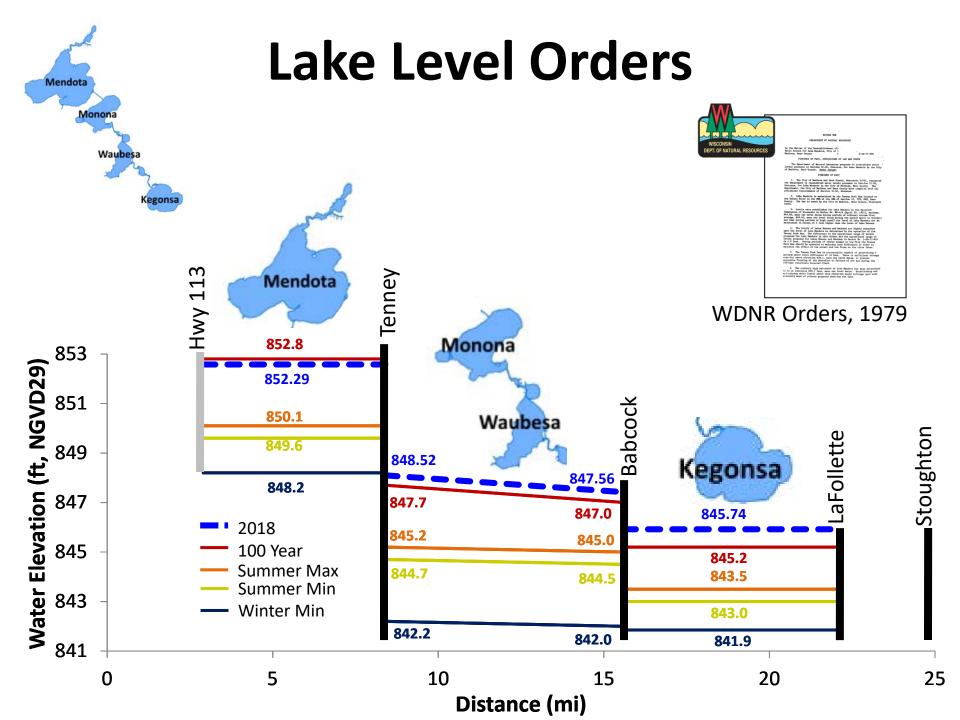
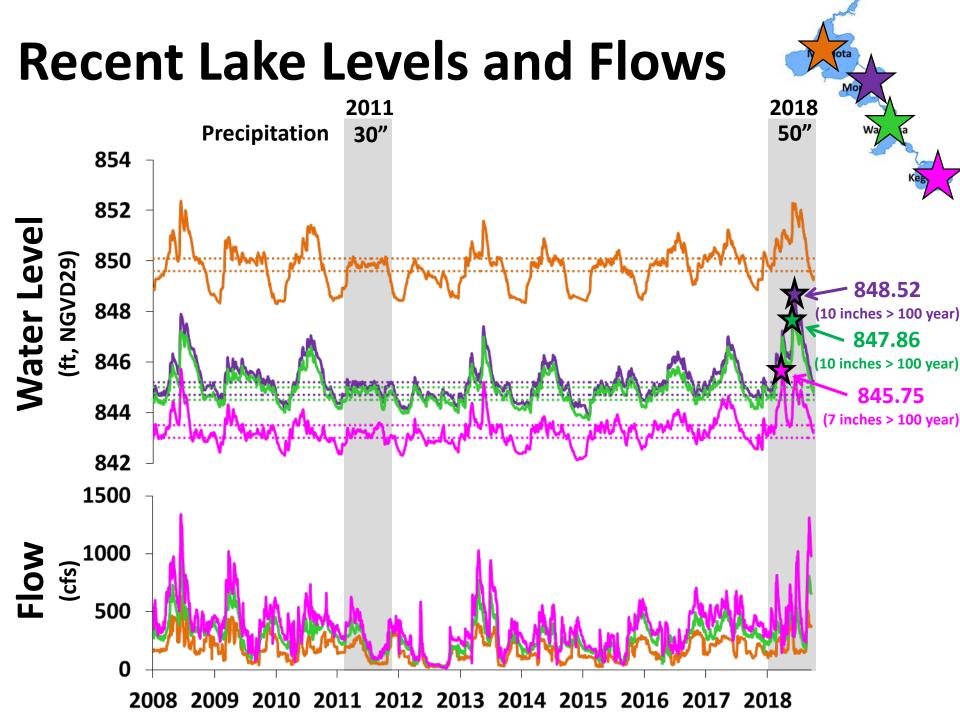
## Yahara Chain of Lakes Lake Management Quarterly Update

May 28, 2020

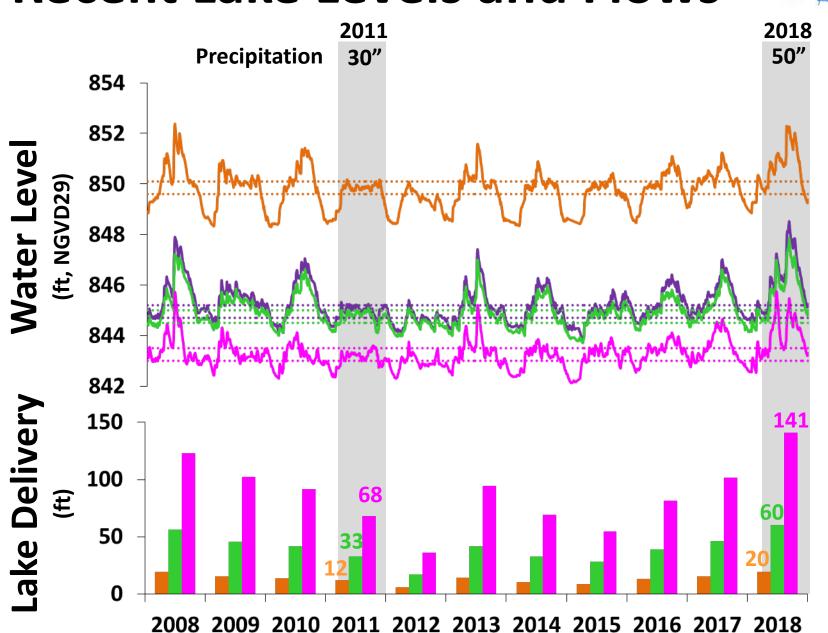
## **Yahara Lakes and Watershed**







## **Recent Lake Levels and Flows**



### **Current Water Levels**

Lake	Date	Lake Level	Summer Min	Summer Max	1% Flood
Mendota	5/28/2020	850.36	849.60	850.10	852.8
Monona	5/28/2020	845.36	844.70	845.20	847.7
Waubesa	5/28/2020	845.03	844.50	845.00	847.0
Kegonsa	5/28/2020	843.75	843.00	843.50	845.2

### https://lwrd.countyofdane.com/Lake-Levels



# Number of Days within Summer Minimum and Maximum Levels Annual

#### March 1 - October 31 (245 days)

Lake	Average (2008-2019)	2018	2019
Mendota	130	49	22
Monona	101	58	11
Waubesa	111	68	13
Kegonsa	148	76	23
Stoughton Dam	-	243*	243**

<sup>\* 2</sup> days not within range occurred on August 21 and 22 which was the large rainfall

<sup>\*\* 2</sup> days not within range occurred during spring melt

# Number of Days within Summer Minimum and Maximum Levels Year to Date

#### March 1 - May 28 (89 days)

Lake	Average (2008-2019)	2019	2020
Mendota	56	22	79
Monona	56	11	78
Waubesa	61	13	78
Kegonsa	59	13	79
Stoughton Dam	-	87	89

## **Aquatic Plant Harvesting**

- Started deploying harvesters last week
- Training new staff







#### 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 Riv	er						
242 Daily Logs	1,414.0	33.6%	666.0	31.8%	3,064	306	1,749
Yahara Riv	er Low	er					
133 Daily Logs	796.0	18.9%	324.0	15.5%	1,490	149	851
Total	4,2	11	2,0	92	9,621	962	5,494
Private De	Private Deposit Site Loads Public Deposit Site Loads						
All			22	2 (	Other 2,	070 Park Site	0
				V	Vestport	0 Highway 1	<b>2</b> 0

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

<sup>\*\*</sup> 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**

#### **Currently None in Place**

#### 2019 Slow No Wake

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

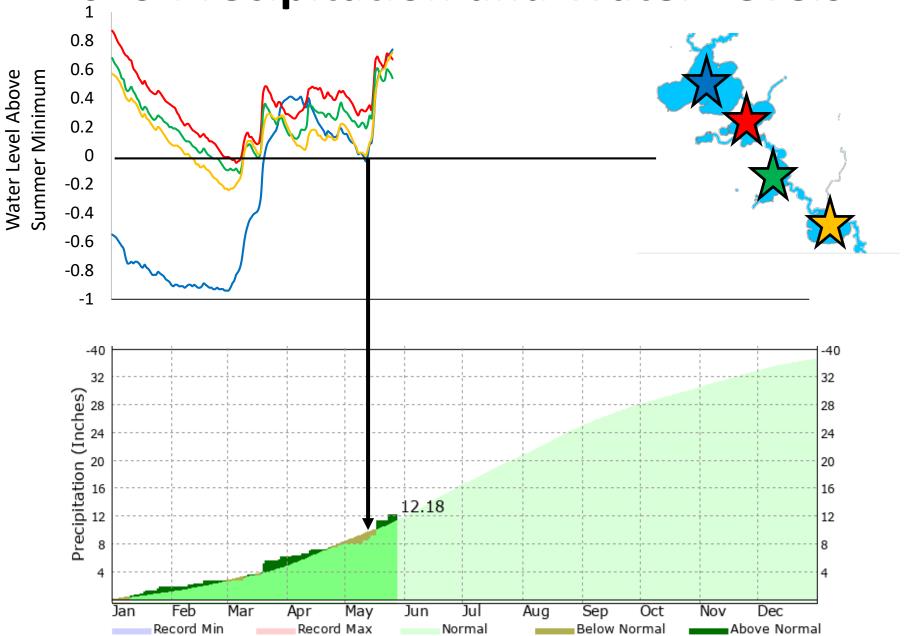
Green Lake = Normal Slow-no-wake Restrictions

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

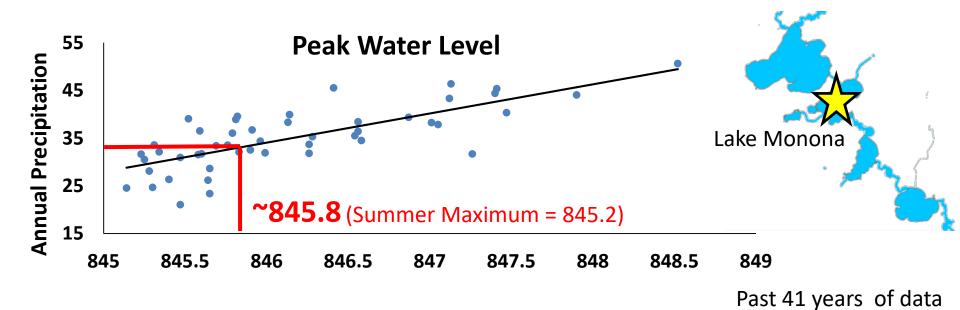
Red Lake = Emergency Order: slow-no-wake entire surface area

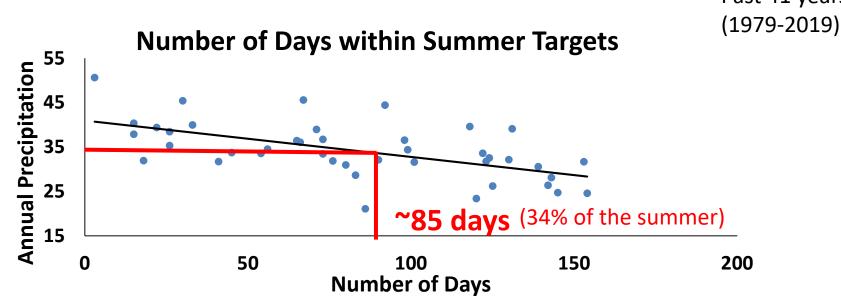
https://lwrd.countyofdane.com/slownowake#

## 2019 Precipitation and Water Levels

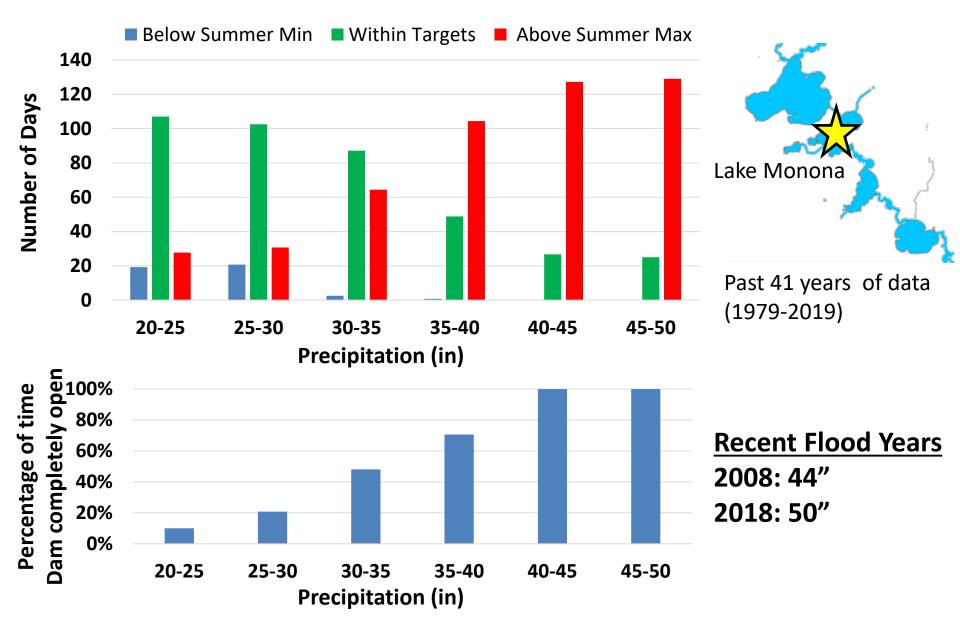


## **Precipitation and Water Levels**

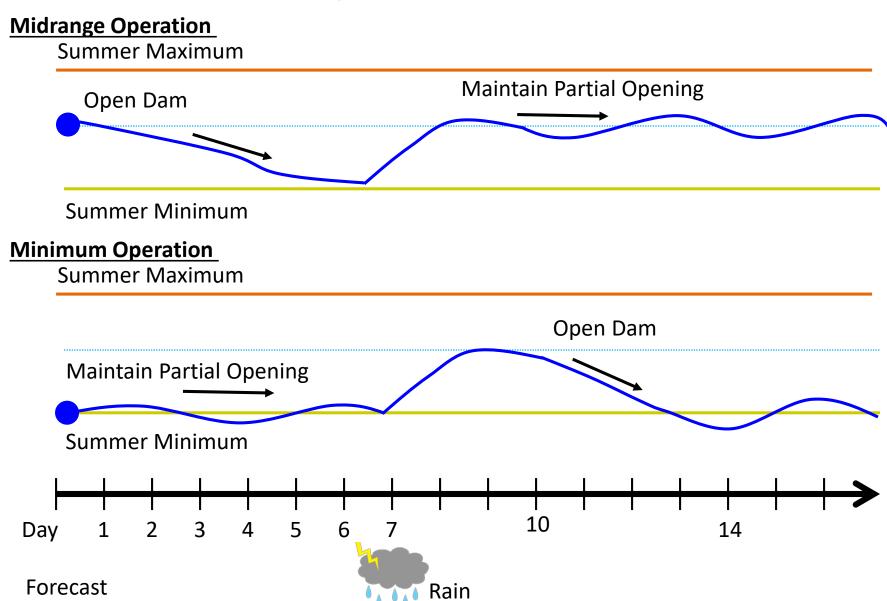




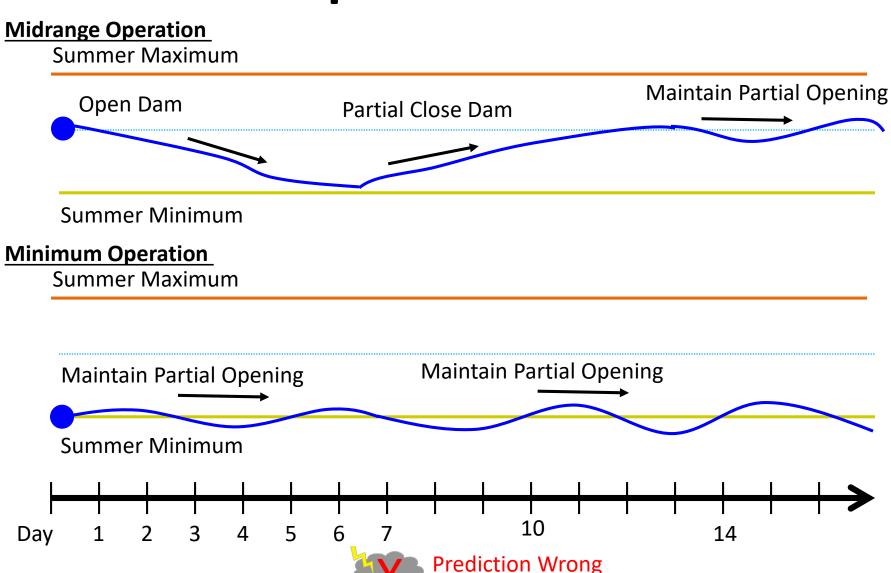
## **Precipitation and Operations**



## **Summer Operations – Scenario 1**



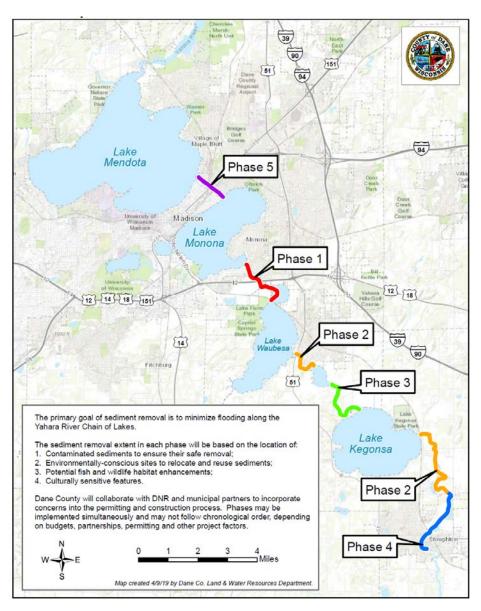
## **Summer Operations – Scenario 2**



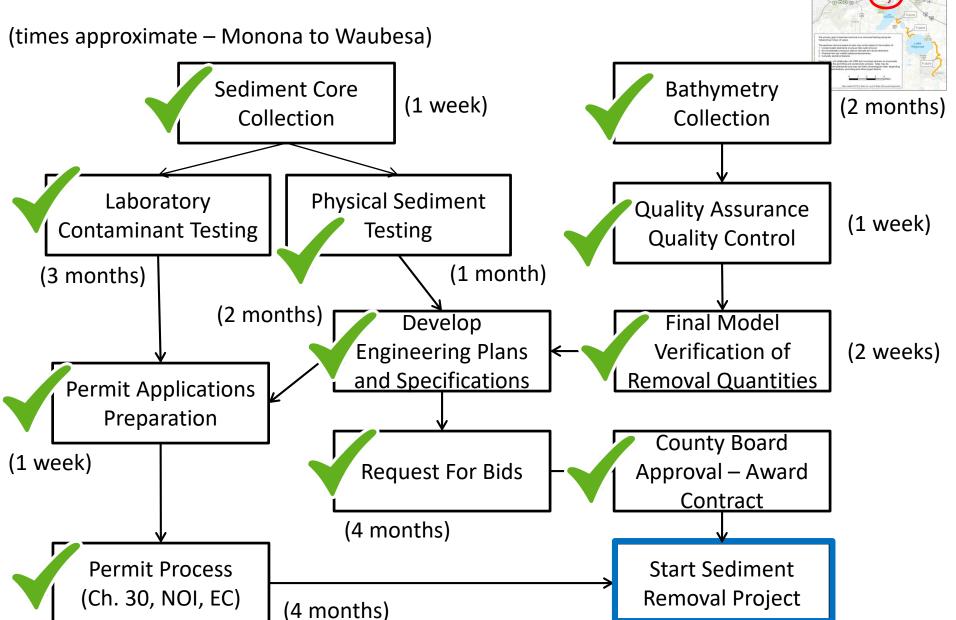
No Rain

**Forecast** 

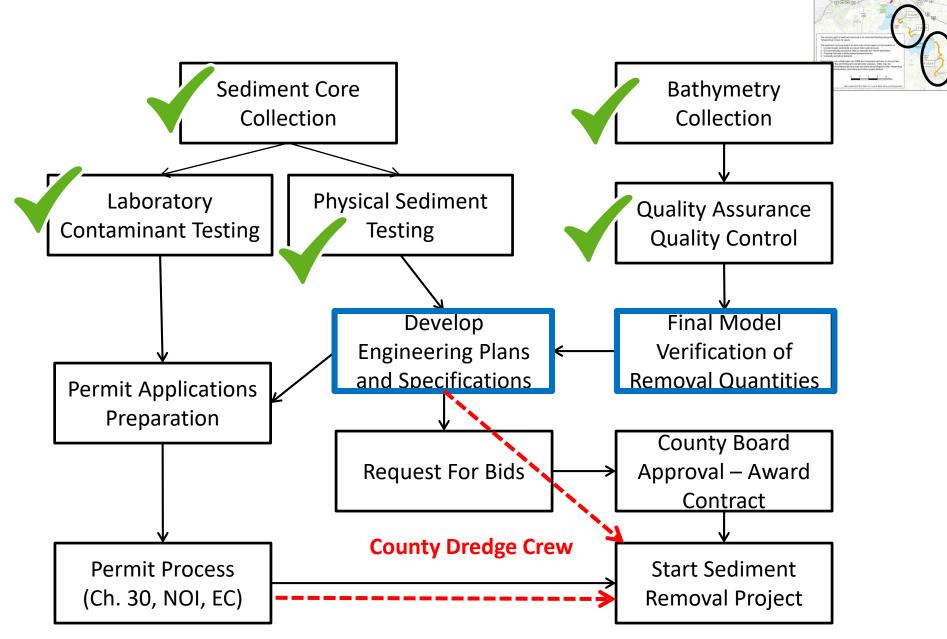
## Task Force Recommendation: Sediment Removal



## **Phase 1 Sediment Removal**



## **Future Sediment Removal**



## **Questions?**