



## 2018 DASH SUMMARY

### Cedar Lake, Manitowoc County

Diver Assisted Suction Harvesting (DASH) of Eurasian Water Milfoil (EWM) took place on June 12th, 14th, 15th, July 27<sup>th</sup>, 30<sup>th</sup> and 31<sup>st</sup> on Cedar Lake, Manitowoc Co., Wisconsin. **(Figure 1)**. A survey performed by the Sanitary District #1, Town of Schleswig and confirmed the locations of EWM on 3 acres at 7 separate areas that were targeted for harvest. The attached map (Figure 1) was provided by the district. All areas were exclusively targeted for EWM.

#### **June 12, 2018**

Area #6 was harvested for EWM using the DASH barge with one diver on hookah air supply and another person on the barge collecting the material in mesh bags. The wind was at 7mph, waves were calm, air temp was 65 degrees working at a depth of 10 feet.

Area 6: 7 hours with a total of 1480 lbs. of material harvested (approx. 10% non-target plants)

#### **June 14, 2018**

Area #5 was harvested using the DASH barge with one diver on hookah air supply and another person on the barge collecting the material in mesh bags. The wind was calm, waves were calm, air temp was 70 degrees working at a depth of 12 feet.

Area 5: 7 hours with a total of 538 lbs. of material harvested (approx. 10% non-target plants)

#### **June 15, 2018**

Area #2 was harvested using the DASH barge with one diver on hookah air supply and another person on the barge collecting the material in mesh bags. The wind was 5 mph, waves were calm, air temp was 68 degrees working at a depth of 12 feet.

Area 2: 3.5 hours with a total of 104 lbs. of material harvested (approx. 10% non-target plants)

### **July 27, 2018**

Area #6 was harvested for EWM using the DASH barge with one diver on hookah air supply and another person on the barge collecting the material in mesh bags. The wind was at 7mph, waves were calm, air temp was 70 degrees working at a depth of 10 feet.

Area 6: 7 hours with a total of 1420 lbs. of material harvested (approx. 10% non-target plants)

### **July 30, 2018**

Areas 1, 2 and 6 were harvested for EWM using the DASH barge with one diver on hookah air supply and another person on the barge collecting the material in mesh bags. The wind was at 7mph, waves were calm, air temp was 70 degrees working at a depth of 10 feet.

Area 1: 4 hours with a total of 504 lbs. of material harvested (approx. 10% non-target plants)

Area 2: 3 hours with a total of 508 lbs. of material harvested (approx. 10% non-targeted plants) Area 6: 1 hour with a total of 80 lbs. of material harvested (approx. 10% non-target plants)

### **July 31, 2018**

Area #2 & #6 were harvested using the DASH barge with one diver on hookah air supply and another person on the barge collecting the material in mesh bags. The wind was calm, waves were calm, air temp was 80 degrees working at a depth of 10 - 12 feet.

Area 2: 3.5 hours with a total of 68 lbs. of material harvested (approx. 10% non-target plants)

Area 6: 3.5 hours with a total of 68 lbs. of material harvested (approx. 10% non-target plants)

## **Procedures used during the DASH operations**

The lake bed was not removed or redistributed by the suction efforts. A float was used to suspend the suction nozzle off of the lake bed.

All harvested materials were placed in Onion type mesh bags, drained, weighed, evaluated for plant species, and transferred to the Sanitary District Truck. The truck disposed of the bags at the location noted in the permit disposal location which is where the District disposes it's daily plant harvest materials; Wagner Farm.

Any plant fragments not retained in the bags were skimmed from the lake surface by using a pool pole/net.

Non-targeted species were similar at all locations and estimated to be 10% consisting of about 8% Wild Celery and 2% Pondweeds.

Table 1 shows the acreage, lbs. harvested, time spent and lbs. per hour.

**Table 1** 2018 DASH Harvest Total by Area, Cedar Lake, Manitowoc Co., WI

**Table 1**

Site	Acreage	lbs. Harvested	Time (man-hours)	lbs. / hour
1	0.5	504	4	126
2	1	680	10	68
5	0.5	538	7	77
6	1.5	3,068	18.5	166
Total	3	4,790	39.5	121

**Area GPS Coordinates**

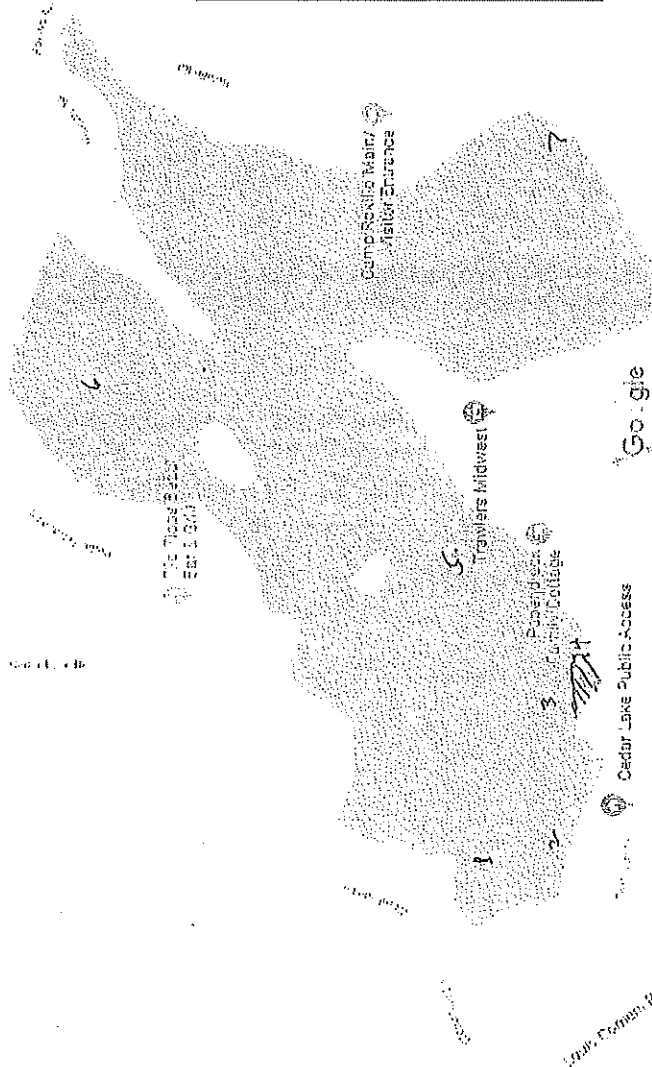
Area 1: 43.92.35 / -87.94.62

Area 2: 43.92.26 / -87.94.63

Area 5: 43.92.38 / -87.93.95

Area 6: 43.92.83 / -87.93.72

43.9235, -87.9462  
43.9226, -87.9463  
43.9238, -87.9395  
43.9283, -87.9372



Area GPS Coordinates

Area 1: 43.92.35 / -87.94.62

Area 2: 43.92.26 / -87.94.63

Area 5: 43.92.38 / -87.93.95

Area 6: 43.92.83 / -87.93.72

Map data ©2018 Google 500 ft