

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

<u>MEMO</u>

To: File

From: Liz Victor ON Date: January 5, 2018

Site Name/BRRTS: Kewaunee Marsh Arsenic Spill (02-31-000508)

Re: Field Activities Report for October 3, 2017

<u>Who:</u> Liz Victor, Dave Neste, Cheryl Bougie, DNR NER Purpose of Field Visit: Cap Inspection and Site Visit

Special Equipment: DNR's Canon PowerShot SX130 IS, Garmin eTrex 20 Sof

Scope of Work for Field Visit:

Read River Staff Gauge (west gauge) and get GPS Coordinates

• Look at/assess area of stressed vegetation/stunted growth

Annual Cap Inspection

<u>Work Performed</u>: The team walked the cap to the east end to assess its condition and the area of stunted/stressed vegetation. The perimeter of the eastern most portion of the stressed vegetation area was walked using the GPS to establish its general boundary. The western portion was not walked because it was more irregular and interspersed with normal looking vegetation. Also took a reading from the west staff gauge and geolocated it using GPS.

Comments:

- There was a marked difference in quality of vegetation between the western and eastern portions of the cap. In the west, the vegetation was green, thick and tall for all species: phragmites, cattails, reed canary grass, and nettles. In the east, the vegetation was brown, shorter and thinner for all species (no nettles noted). We discussed the possibility that the cattails in the east were a different variety or a hybrid.
- There were large areas in the east on the cap where nothing was growing. It looked like sediment/soil/mud; the woodchips have decomposed.
- We observed abundant deer, bird and raccoon tracks and saw a leopard frog. The areas of standing water had duck weed.
- The vegetation on the berms around the cap appeared to be healthy. Berms, where observed, contained mostly reed canary grass.
- When standing on the cap near the north boundary berm, the cap appeared to be low nearly the same elevation as north of the berm.
- The eastern area of stressed vegetation was wet, saturated ground with a few smaller spots of standing water with duckweed.
- The trees and vines on the fence were still green and had not started to change color.
- New Staff Gauge: algae on the staff gauge (installed May 2017) was noted as high as 5.56ft indicating the river elevation has been as high as 5.56 ft (581.39 ft msl).

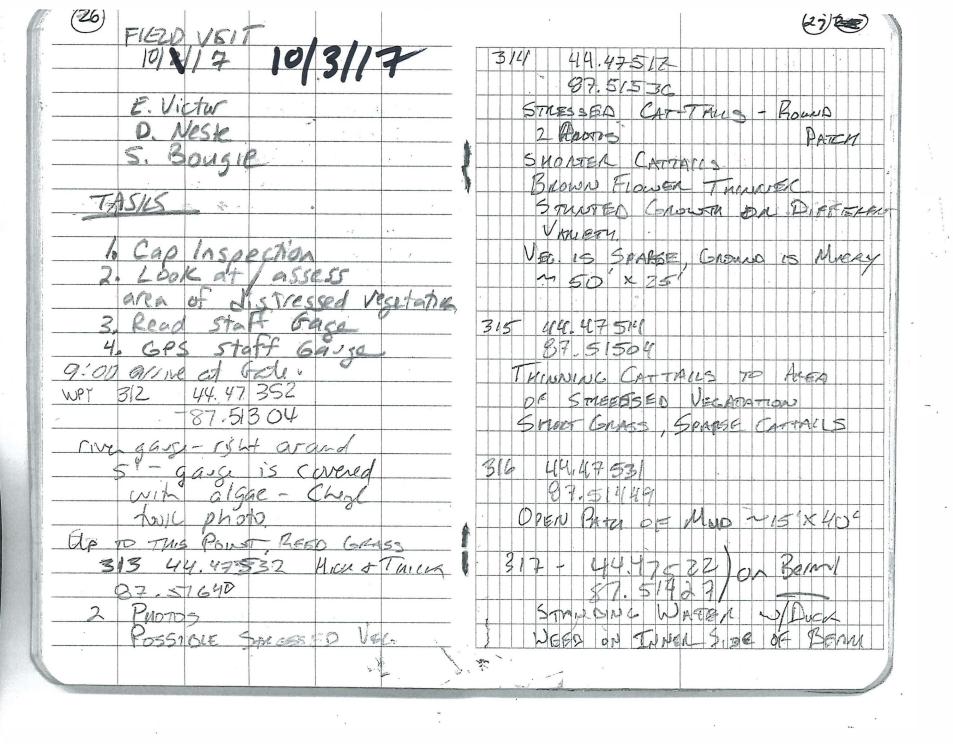
Data Collected: The collected data is attached.

Attachments:

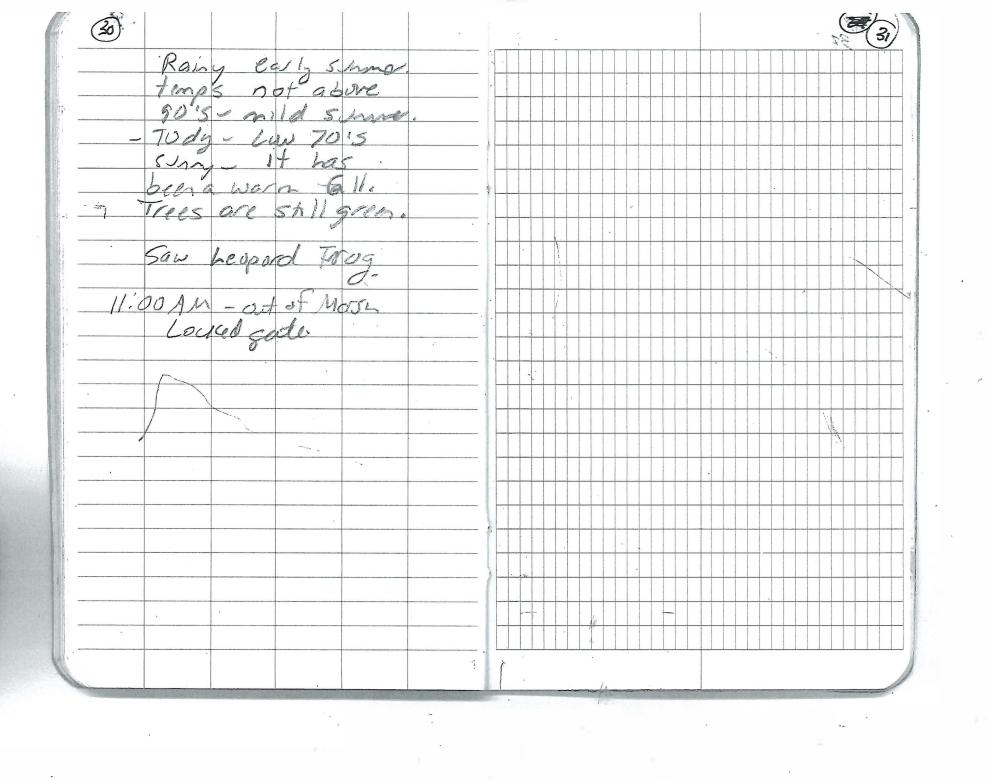
- Field Notes, 10/03/2017
- Tracks Map

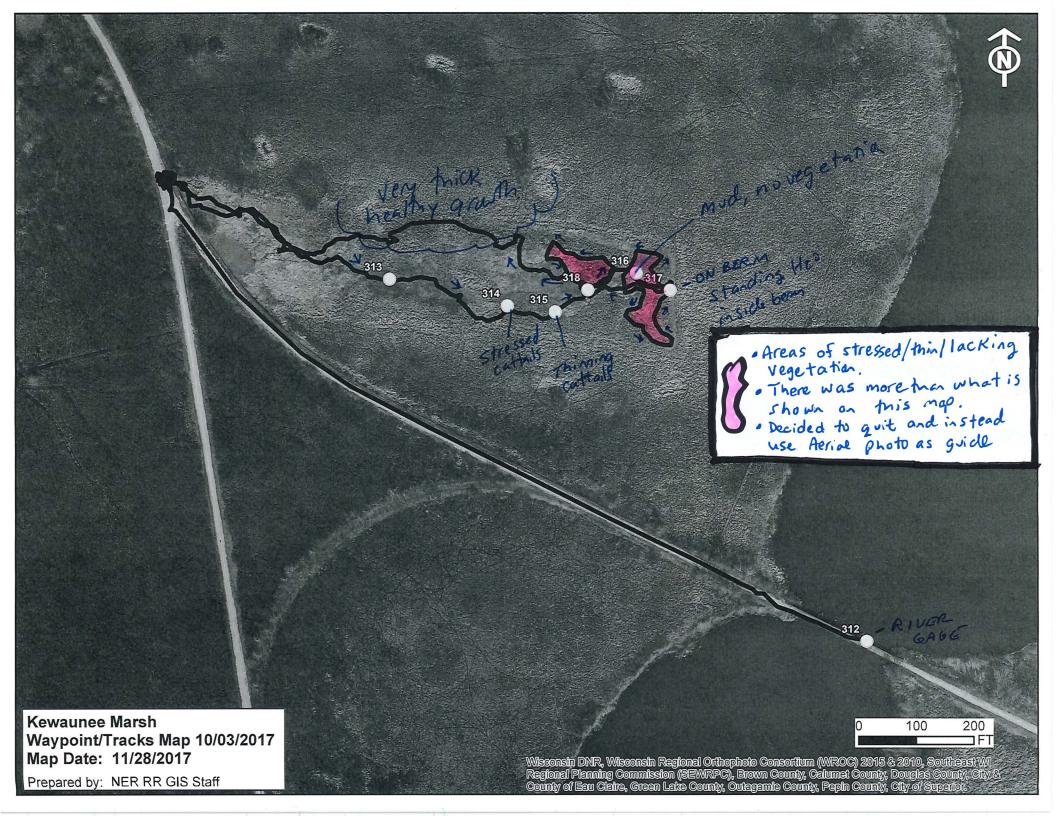
- -Waypoints
- Photo Log for photos taken 10/03/17
- Staff Gauge Photo with estimated river level shown





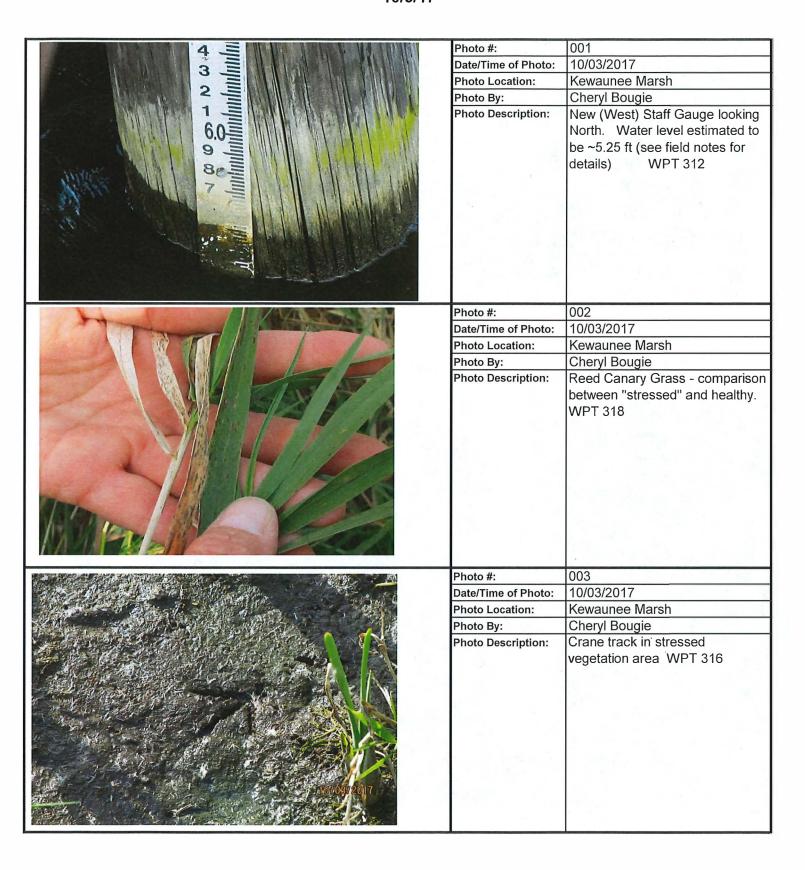
(28 (28) STANDING WATER W/ PATCHES OF NO VEGETAGION. DUCK WEED = SMNDING WATHER CAT TAILS O REED CANARY CRISS ISSPANSE & SHOUSER VEG. ON BERM 5 MORE Cansida arreal photo DEMOSE. CAT TAILS & VEG. ON HOT 100/05 100 SPOT TREATMENT AND MORE field carespul Lusue BERM CONTAINS MOSTLY DEED CANARY GRASS 16 geniel paste a184 318 44.47523 87 51480 ver. bis Loyp Many Tracks. acoon Shesud veg Jose Shope grass/catails-Some Ma Fun NOW FOR ENUM





FID	type	ident	Latitude	Longitude	y_proj	x_proj	or ccc (asked
0	WAYPOINT	312	44.473519	-87.513039	447476.1393	717798.5039	-Staff base (westenla
1	WAYPOINT	313	44.475315	-87.516133	447668.1542	717546.359	
2	WAYPOINT	314	44.47517	-87.515355	447653.9285	717608.7252 -	-Stressed catals
3	WAYPOINT	315	44.475134	-87.515038	447650.6962	717634.0587	- thinning cattails
4	WAYPOINT	316	44.475308	-87.51449	447671.3493	717677.055	- mod
5	WAYPOINT	317	44.475221	-87.514269	447662.2199	717694.9257	- beim-beg sond of circu
6	WAYPOINT	318	44.475235	-87.514817	447662.4496	717651.2944	- stressed resetation,
							- mud - bey i and of circle - stressed vegetation, beginning i End of Circle around svessed oet
							Circle around
							snessed ref

Kewaunee Marsh Photos 10/3/17



Kewaunee Marsh Photos 10/3/17



Photo #:	004			
Date/Time of Photo:	10/03/2017			
Photo Location:	Kewaunee Marsh			
Photo By:	Cheryl Bougie			
Photo Description:	Racoon tracks in stressed vegetation area WPT 316			
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Above Photo: Thick reed canary grass. Facing S WPT 313 Photo by:Cheryl Bougie

Photo #: 005

Date/Time of Photo: 10/03/2017

Kewaunee Marsh Photos 10/3/17



Above Photo: Pond 8 View to ~north. by: Cheryl Bougie

Photo Photo #: 006

10/03/2017



Above Photo: Pond 8 View to ~north. by: Cheryl Bougie

Photo

007 Photo #:

10/03/2017 Date/Time of Photo:

Kewaunee Marsh Photos 10/3/17



Above Photo: stressed/stunted Vegetation Zone
Facing SE WPT 316 Photo by: Cheryl Bougie

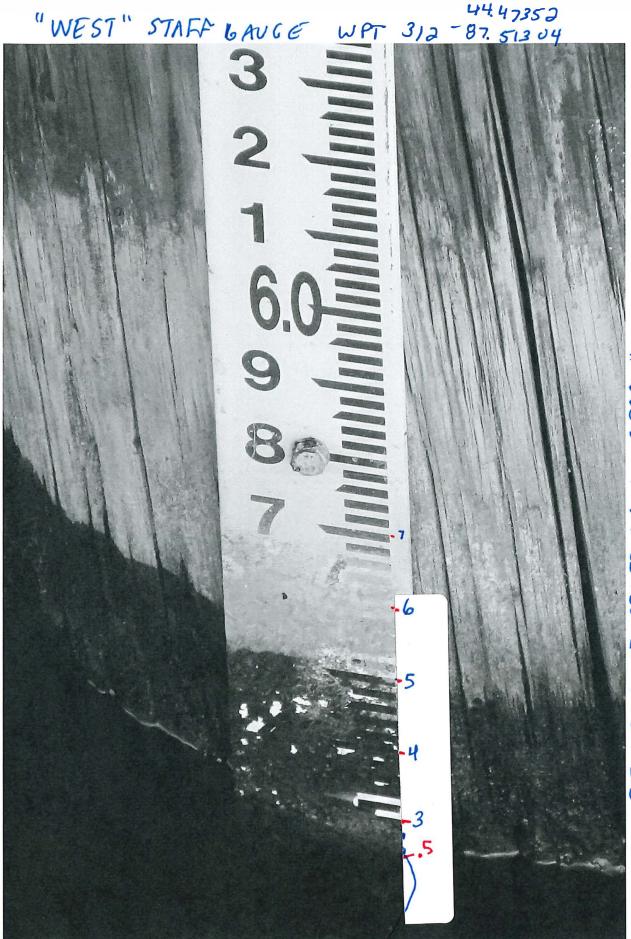
Photo #: 008

Date/Time of Photo: 10/03/2017



Above Photo: stressed/stunted Vegetation Zone Facing Photo #: 009
SE WPT 316 Photo by: Cheryl Bougie Date/Time of Photo: 10/03/2017

44.47352



OF STAFF GAUGE REPRONG ESTMATION BY IEAN

\$5.25