

**MEMO**

To: File  
From: Liz Victor *env*  
Date: May 18, 2017  
Site Name/BRRTS: Kewaunee Marsh Arsenic Spill (02-31-000508)  
Re: **Field Activities Report for January 30, 2017**

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**Purpose of Field Visit:** Locate, obtain GPS coordinates, and mark site wells south of railroad tracks so that these wells may be abandoned. Walk mowed path (1/24/2017) with GPS to record its location for future use.

**Who:** Liz Victor & Lisa Sharkey, DNR Oshkosh  
Cheryl Bougie and Raquel Sanchez, DNR Green Bay

**Equipment:**

GPS Units Used: AE: Garmin GPSMAP 62s S, EV: Garmin eTrex 20 Sof  
Camera Used: DNR's Canon Powershot SX 210 IS, by Liz Victor, DNR camera operated by Cheryl Bougie  
Mower to be provided by NER Wildlife

**Scope of Work for Field Visit:** No formal Scope of work was prepared.

**Work Performed:** Liz and Cheryl team and Raquel and Cheryl Team located wells, recorded GPS Coordinates, added PVC markers to wells. Liz and Cheryl team walked mowed path and located a few additional wells within the fence.

**Comments:**

- Used plastic zip ties to secure wells. Added flagging to top of PVC Markers (1.5 inch diameter X 10 ft).
- We could not locate GW-01 and GW-04.
- GW-12 and GW-13 were not where indicated on the existing maps. Corrected locations are presented in Mowed Path map

**Recommendations/Follow-up:**

- Use data to correct site map and produce map showing mowed paths.

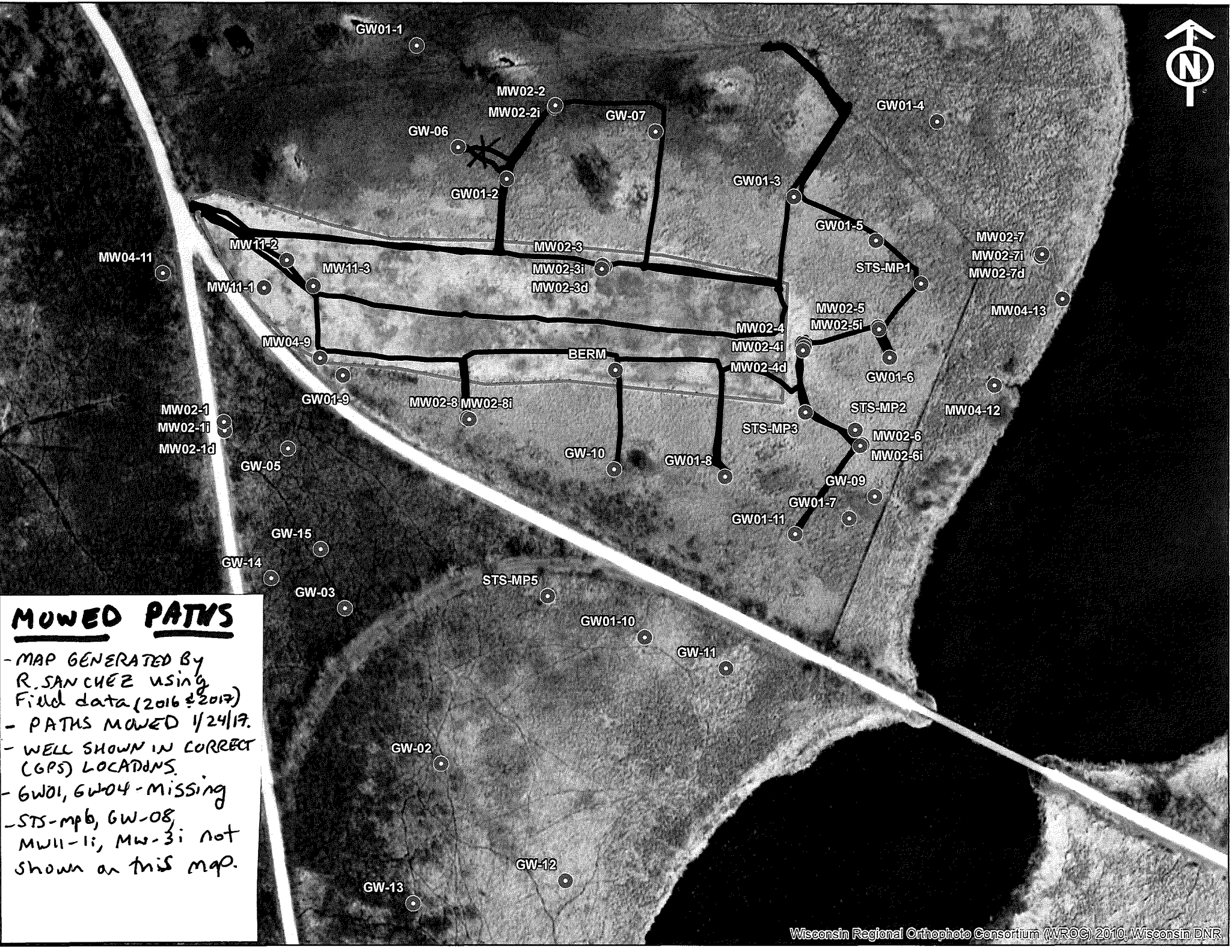
**Attachments:**

- GPS coordinates measured in field on 1/30/17
- MOWED PATH Map showing correct locations for wells based on field GPS reading 2016 and 2017
- Photo Log for photos taken 1/30/17 & Thumbnails
- Field Notes, 1/30/17 & map used in field to find wells with notes.

**GPS WAYPOINTS logged during 01/30/17 Field Visit.  
 used Garmin GPSMAP 62s S GPS Unit and garmin eTrex 20 Sof**

<b>COMMENT</b>	<b>DATE/TIME</b>	<b>COLLECTOR</b>	<b>DD_LONG</b>	<b>DD_LAT</b>	<b>WTM_X</b>	<b>WTM_Y</b>
GW01-10	01/30/2017 18:00	garmin eTrex 20 Sof	-87.5151	44.47401	717635.1506	447525.7611
GW-14	01/30/2017 18:06	garmin GPSMAP 62s S	-87.5172	44.47429	717468.9193	447551.9176
GW-11	01/30/2017 18:19	garmin eTrex 20 Sof	-87.5146	44.47388	717671.3142	447511.9623
GW-15	01/30/2017 18:20	garmin GPSMAP 62s S	-87.5169	44.4744	717490.9767	447564.8177
GW-03	01/30/2017 18:30	garmin GPSMAP 62s S	-87.5167	44.47416	717501.566	447538.567
GW-02	01/30/2017 19:07	garmin GPSMAP 62s S	-87.5162	44.47353	717544.4311	447469.2692
STS-MP5	01/30/2017 19:52	garmin eTrex 20 Sof	-87.5156	44.47419	717591.8463	447544.0126
GW-05	01/30/2017 19:59	garmin GPSMAP 62s S	-87.517	44.47481	717476.404	447609.5147
BERM	01/30/2017 20:39	garmin eTrex 20 Sof	-87.5152	44.47509	717622.2147	447644.8882
GW-12	01/30/2017 21:04	garmin GPSMAP 62s S	-87.5156	44.47305	717599.7448	447417.3607
GW-06	01/30/2017 21:11	garmin eTrex 20 Sof	-87.516	44.476	717552.1723	447744.0456
GW-13	01/30/2017 21:16	garmin GPSMAP 62s S	-87.5164	44.47297	717531.9018	447407.405
GW-15	01/30/2017 18:20	garmin GPSMAP 62s S	-87.5169	44.4744	717490.9767	447564.8177
GW-10	01/30/2017 19:52	garmin eTrex 20 Sof	-87.5152	44.47471		

Data downloaded and processed by R. Sanchez, DNR GIS



**MOWED PATHS**

- MAP GENERATED BY R. SANCHEZ USING Field data (2016 & 2017)
- PATHS MOWED 1/24/19.
- WELLS SHOWN IN CORRECT (GPS) LOCATIONS.
- GW01, GW04 - MISSING
- STS-MP6, GW-08, MW11-1i, MW-3i NOT SHOWN ON THIS MAP.

### Kewaunee Marsh

Monitoring wells proposed for abandonment

Wells are located outside the fenced area between the former RR beds (Ahnapee Trail)

January 30, 2017



Photo #:	001
Date/Time of Photo:	01/30/2017
Photo Location:	Kewaunee Marsh
Photo By:	Cheryl Bougie
Photo Description:	Monitoring Well GW-05 PVC casing with cap WPT 76 44 28.489 -87 31.022



Photo #:	002
Date/Time of Photo:	01/30/2017
Photo Location:	Kewaunee Marsh
Photo By:	Cheryl Bougie
Photo Description:	Monitoring Well GW-14 PVC casing with cap WPT 77 44 28.458 -87 31.030

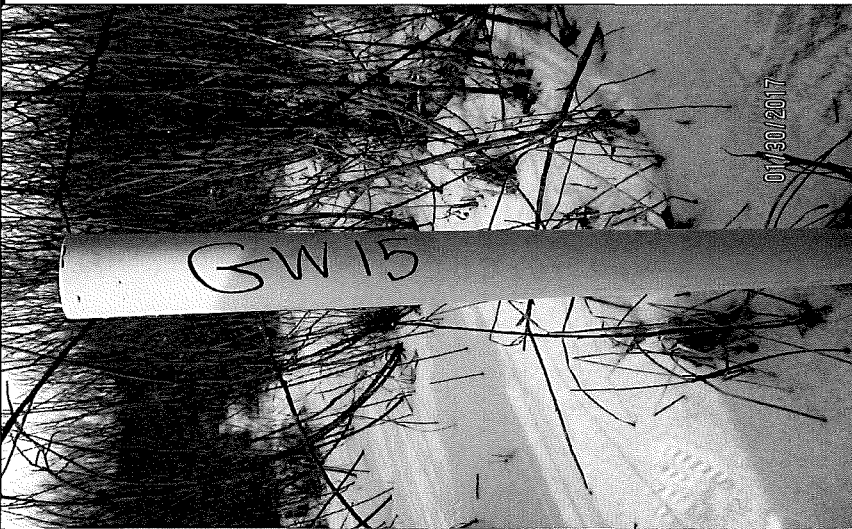


Photo #:	003
Date/Time of Photo:	01/30/2017
Photo Location:	Kewaunee Marsh
Photo By:	Cheryl Bougie
Photo Description:	Monitoring Well GW-15 PVC casing no cap WPT 78 44 28.464 -87 31.013

### Kewaunee Marsh

Monitoring wells proposed for abandonment

Wells are located outside the fenced area between the former RR beds (Ahnapee Trail)

January 30, 2017



Photo #:	004
Date/Time of Photo:	01/30/2017
Photo Location:	Kewaunee Marsh
Photo By:	Cheryl Bougie
Photo Description:	Monitoring Well GW-03 PVC casing no cap WPT 79 44 28.450 -87 31.005



Photo #:	005
Date/Time of Photo:	01/30/2017
Photo Location:	Kewaunee Marsh
Photo By:	Cheryl Bougie
Photo Description:	Monitoring Well GW-02 PVC casing no cap WPT 81 44.47353 -87.51624



Photo #:	006
Date/Time of Photo:	01/30/2017
Photo Location:	Kewaunee Marsh
Photo By:	Cheryl Bougie
Photo Description:	Monitoring Well GW-12 PVC casing with cap WPT 82 44.47305 -87.51556

**Kewaunee Marsh**

Monitoring wells proposed for abandonment

Wells are located outside the fenced area between the former RR beds (Ahnapee Trail)

January 30, 2017



Photo #:	007
Date/Time of Photo:	01/30/2017
Photo Location:	Kewaunee Marsh
Photo By:	Cheryl Bougie
Photo Description:	Monitoring Well GW-13 PVC casing no cap WPT 83 44.47298 -87.51642



Photo #:	008
Date/Time of Photo:	01/30/2017
Photo Location:	
Photo By:	Liz Victor
Photo Description:	PVC Casin, no cap WPT 205 44.47401 87.51508

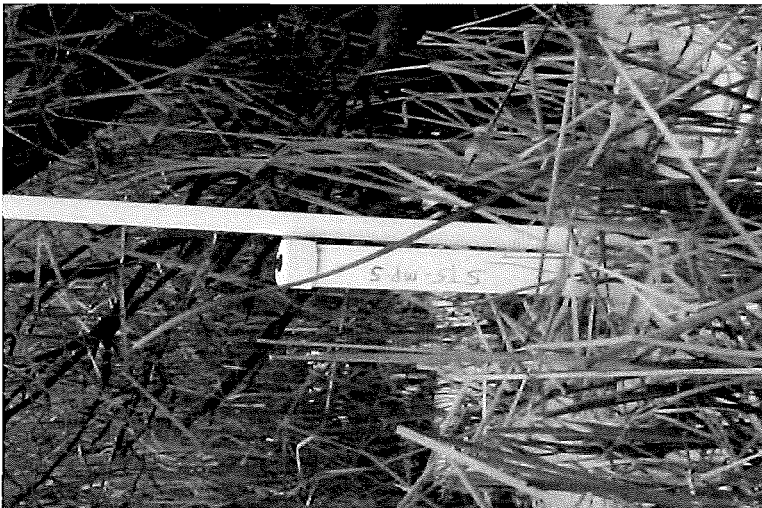
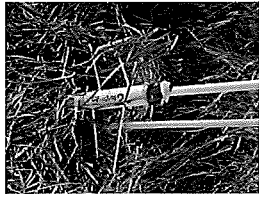


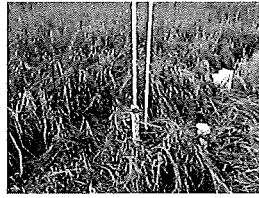
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Date/Time of Photo:	01/30/2017
Photo Location:	
Photo By:	Cheryl Bougie
Photo Description:	



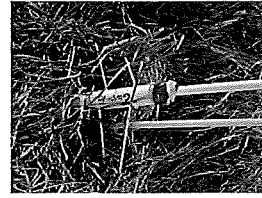
IMG\_1568



GW01-10



IMG\_1556



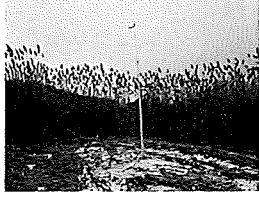
IMG\_1558



IMG\_1559



IMG\_1560



IMG\_1561



IMG\_1562



IMG\_1563



IMG\_1564



IMG\_1565



IMG\_1566



IMG\_1567

COPIED FROM:

K. MARSH AS SPILL SITE

Field Notes #1 Basic

Jan 2017 -

①

1/30/17

Field ENR

LIZ VICTOR / LISA SHARKEY

- WELL LOCATIONS: LOOK for wells S. of RR tracks E. mark w/ PVC.

11:59A FOUND GW01-10

#205 / 44.4#01

87.51508

- 8' 1" stick up -

decide to put an 10' stick up w/ marking tape.

has 2 PVC sticks:

1" x 10" x gold type + orange type

+ 1/2" x 7' white PVC.



(2)

FOUND ?? 6W-11

1/2" dia PVC stickup  
no cap

placed 10' marker  
at low w/ orange  
tape, gold dust tape

WP# 207: 44.47388  
87.51463

~~6W-04~~

~~44.47375 6W04 coord~~  
~~87.51450~~

→ GPS says it is in  
water w/ tall cattails.  
cannot find.

NEXT 6W-01

- tall cattails w/ H<sub>2</sub>O  
cannot find.

(3)

~~dis.~~

Raguel & Cheryl  
Join us to look  
for 6W-01.

We cannot find.  
Standing H<sub>2</sub>O  
tall cattails  
dog woods.

FOUND AA. 515-mp-5.

Waypoint 224  
44.47419  
87.51561

White PVC 8' tall  
visible from trail  
next to small tree  
C<sub>1/2</sub>U ditch next to  
trail.

(4)

Walk

Gap in fence = START  
TRACKS.

- Loop along fence of  
GW-07 not  
tracked.

Way point 232

berm?

44.47509

87.51519

Waypoint 233

GW10 ?

44.47471

87.51521

- YES!

~~FOUND~~ FOUND: GW-06 1 1/2" PVC

#234

44.47599

added

87.51603

PVC flagging.

- off path to West.

(5)

There is no mowed  
path between

N span E. end of  
MWD 2-4 (middle)  
path E. end.

easily walkable.

Walk back, join

Cheryl & Rachel

L looking for GW-12/13.

- Could not find GW04,  
Cheryl & Rachel find  
GW12/13.

4:10+ Leaving Site.

- NOTES = 3 PVC structures can  
be seen from bridge =

MWD 4-12

MWD 4-13

MWD 2-7D.

Copied Files :

K. Marsh

As. Spill Site.

Field Notes #2 BURN

JAN 2017-

1/30/17

Raquel Sanchez  
Cheryl Bougie

①

GW14	well already marked		
11:30a			
GW05	WPT 76	44 28.489	
11:55a		87 31.022	
	PVC casing		
	photo 1	GW05	
GW14	WPT 77	44 28.458	
12:05p	PVC casing	87 31.030	
	photo 2	GW14	
GW15	WPT 78	44 28.164	
12:20p	PVC Casing	NO	87 31.013
		CAP	
	photo 3	GW15	
GW03	WPT 79	44 28.450	
12:29p	PVC casing	87 31.025	
	No CAP		
	Photo 4	GW03	
GW02	WPT 81	44.47353	
1:06pm	PVC casing	87.51624	
	No CAP		
	Photo 5	GW02	

FORMULAE

(2) GW12				
3:03 pm	WPT 82	44.47305		
	PVC casing	87.51556		
	photo 6	GW12		
GW13	WPT 83	44.47298		
3:15 pm	PVC casing	87.51642		
	NO Dep			
	photo 7	GW13		

A

Sin

Cos

Tan

Given Required

A, c B, a, c

A, b B, a, c

A, a B, b, c

a, c A, B, b

a, b A, B, c

FORMULAE I

Given Required

A, a, b B, c s

A, B, a b b

a, b, C A, c A

a, b, c Area s

A, b, c Area are

A, B, C, a Area are