

January 25, 2022

Via Email

alyssa.sellwood@wisconsin.gov

Ms. Alyssa Sellwood
Complex Sites Project Manager
Remediation & Redevelopment Program
Wisconsin Department of Natural Resources
101 South Webster Street
P.O. Box 7921
Madison, WI 53707-7921

Re: Notice of Non-Compliance and DNR Response to *Drinking Water Well Sampling Summary Report – Land Applied Biosolids Area*
Tyco Biosolids – Multiple Landspreading Fields
BRRTS # 02-38-583856

Dear Ms. Sellwood:

In a letter from the Wisconsin Department of Natural Resources (WDNR) to Tyco Fire Products LP (Tyco) on September 14, 2021 with the subject line, “Notice of Non-Compliance and DNR Response to Drinking Water Well Sampling Summary Report,” WDNR requested that Tyco provide figures depicting updated buffer zones from fields that received land applied biosolids from the City of Marinette, a list of well owners within the updated buffers, and a list of sampled wells with available construction information.

After a meeting with WDNR on October 29, 2021, Tyco updated the buffer zones requested by WDNR and created a list of improved parcels within those buffers. The attached series of figures (Figure Set 1) shows the updated buffer lines as agreed between Tyco and WDNR on October 29, 2021.

Tyco identified 79 improved parcels wholly or partially within the updated buffer zones that have not previously been offered sampling under this program as a means of tentatively identifying which properties might have a private drinking water well. A mailing list for all improved parcels wholly or partially within the updated buffer zones is attached as Table 1. Additionally, Tyco identified 117 improved parcels within the original buffer zones that either refused sampling when it was initially offered or never responded to outreach efforts (Figure Set 2). A mailing list of those parcels is attached as Table 2. In a letter to WDNR on December 23, 2021, Tyco offered to provide bottled water to these properties. Please note, Tyco previously offered bottled water

Ms. Alyssa Sellwood
January 21, 2022

service to any property owners within the previous buffer zones with results above the Wisconsin Department of Health Services Cycle 11 recommended groundwater standards.

Tyco uses parcels that are identified as improved on tax maps because publicly available well records are often incomplete – only 67 of the 183 wells first sampled under the land spread biosolids program had well construction information available. The attached Table 3, previously provided to the WDNR as part of the September 2020 *Drinking Water Well Sampling Summary Report – Land Applied Biosolids Area*, is a list of previously sampled wells for which Tyco was able to identify construction information. Tyco will consider available well construction information, depth, and proximity to fields as part of the proposed *Land Applied Biosolids Preliminary Assessment/Site Investigation Work Plan* submitted December 23, 2021.

Please feel free to contact me if you have any questions.

Sincerely,



Denice K. Nelson
Senior Director – Remediation & Strategy

Attachments:

Figure Set 1 – Land Applied Biosolids Updated Buffer Map

Figure Set 2 – Refusals and Non-Responsive Properties within Original Buffer Zones

Table 1 – Mailing List of Improved Parcels in Updated Buffers

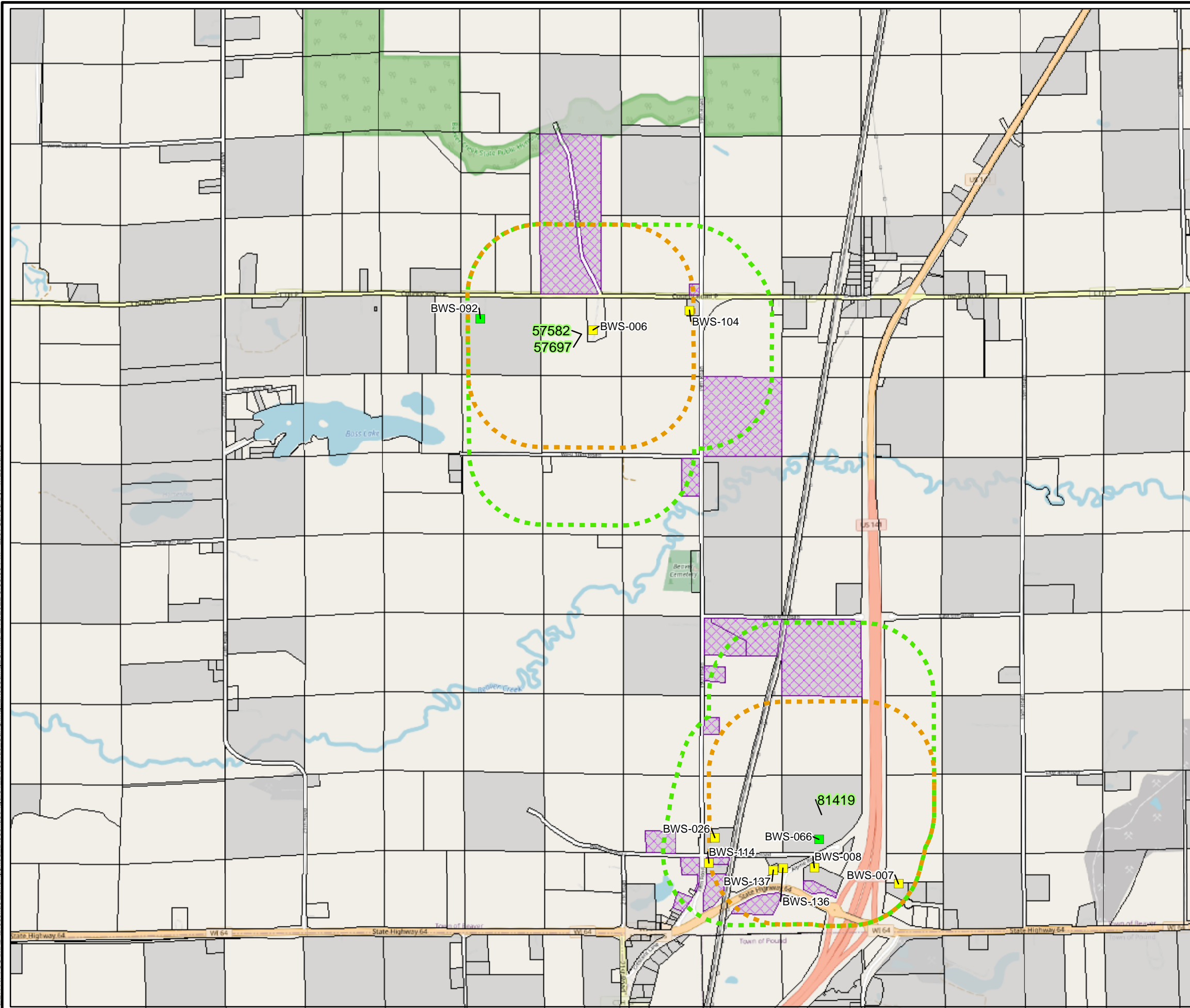
Table 1 and 2 removed from public
copy b/c they contain PII

Table 2 – Mailing List of Refusals and Non-Responsive Properties

Table 3 – Wisconsin Unique Well Numbers for Potable Wells

Copy of template letter mailed to residents added after Table 3

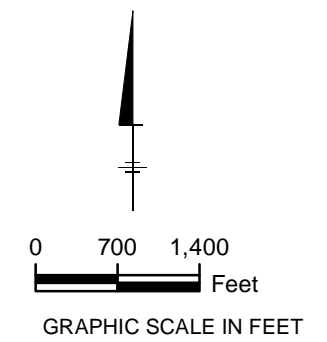
T:\ENV\YCO\MXD\Biosolids\LandApplied Biosolids\Figure1_Biosolids_Sampling_ExceedingES.mxd 2/15/2022 3:58:00 PM Last Saved By: MEstifanos



LEGEND:

- 57582 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

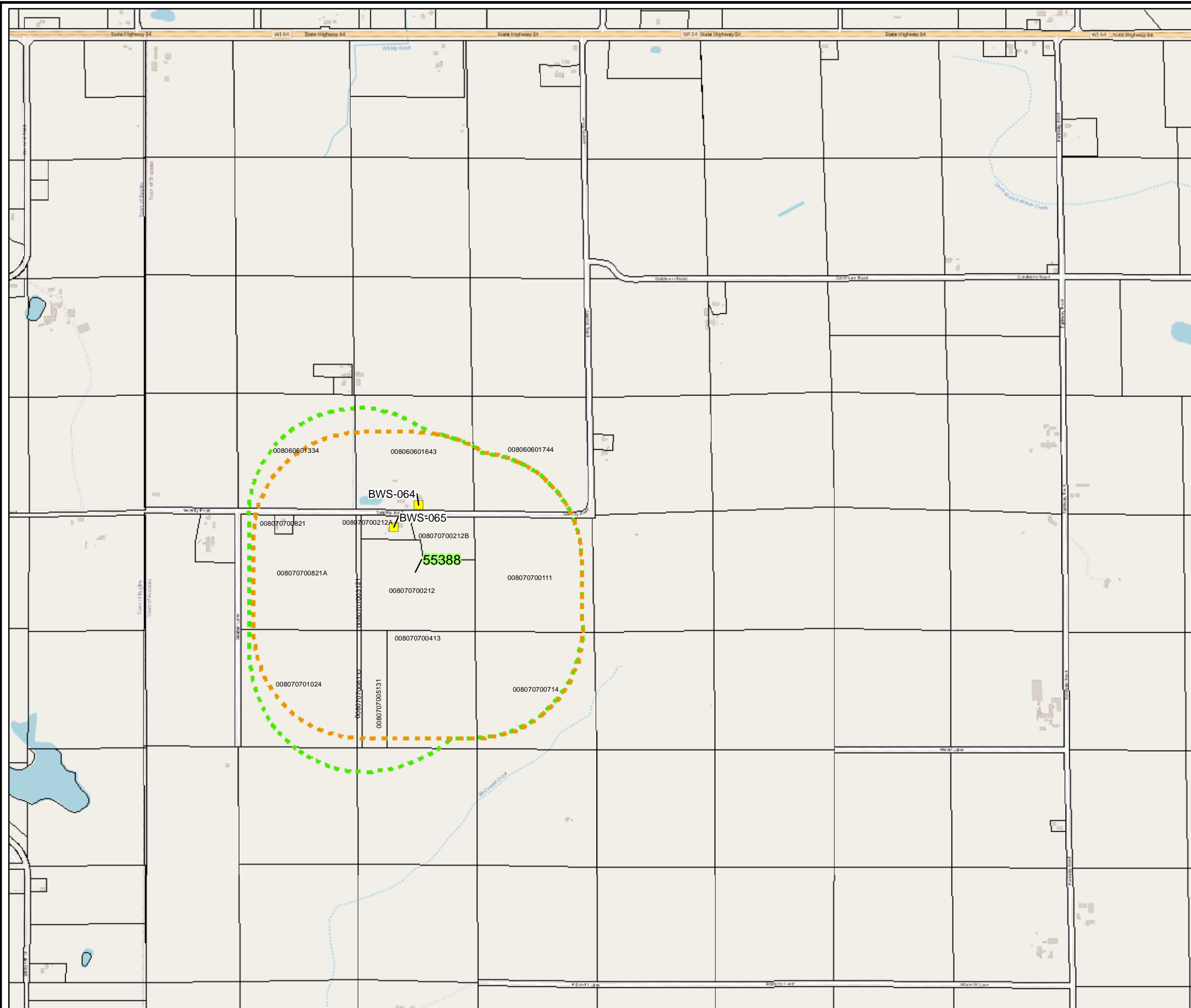


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Land Applied Biosolids Updated Buffer Map



T:\ENV\TYCO\MXD\Biosolids\LandApplied_Biosolids\Figure2_Biosolids_Sampling_ExceedingES.mxd 2/15/2022 3:55:25 PM Last Saved By: MEstifanos



LEGEND:

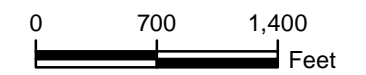
55388 LAND APPLICATION SITE

Drinking Water Results

- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:

Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

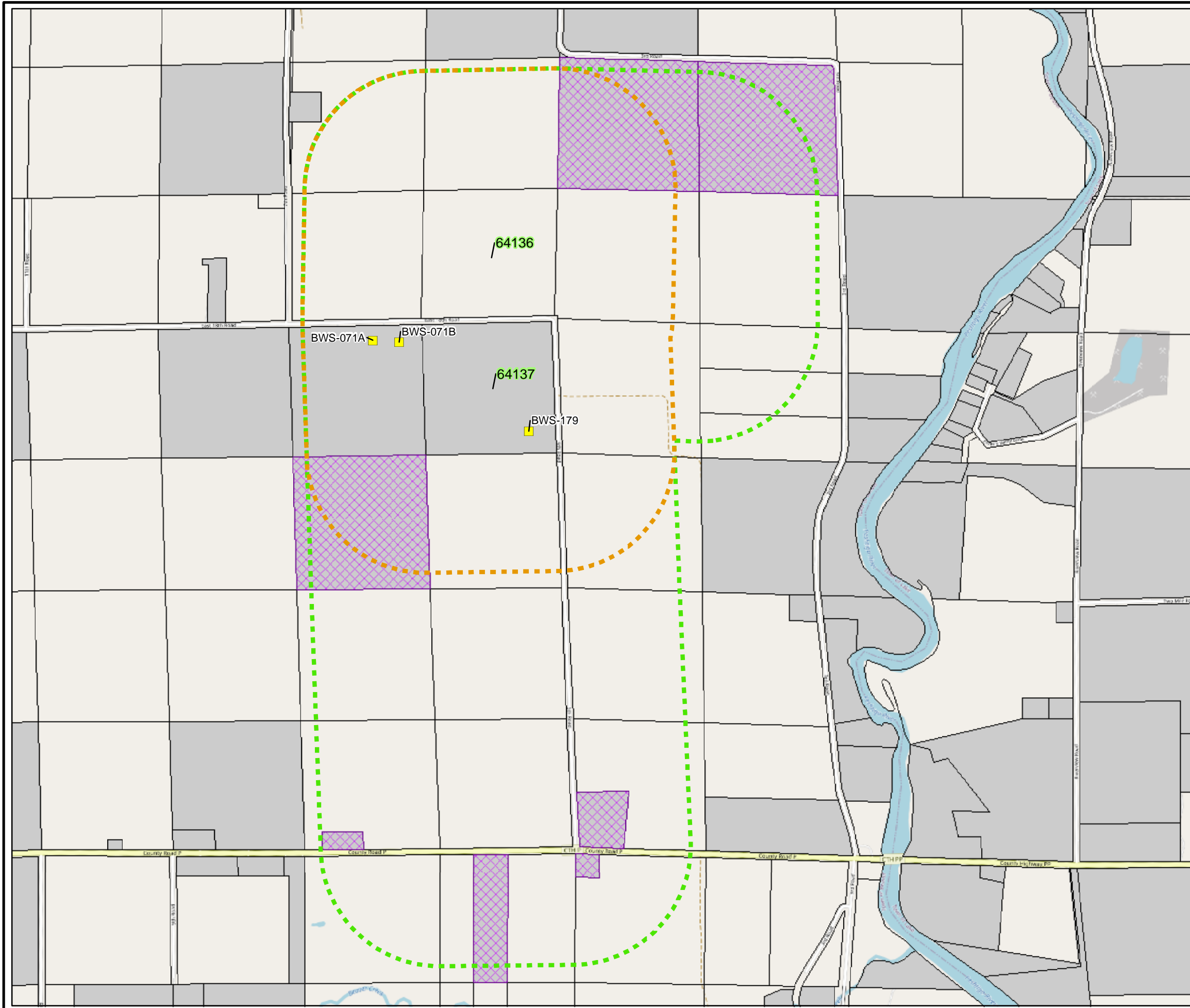


GRAPHIC SCALE IN FEET

VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Land Applied Biosolids Updated Buffer Map

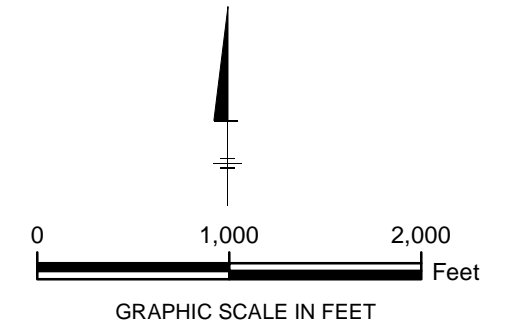




LEGEND:

- 64137 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

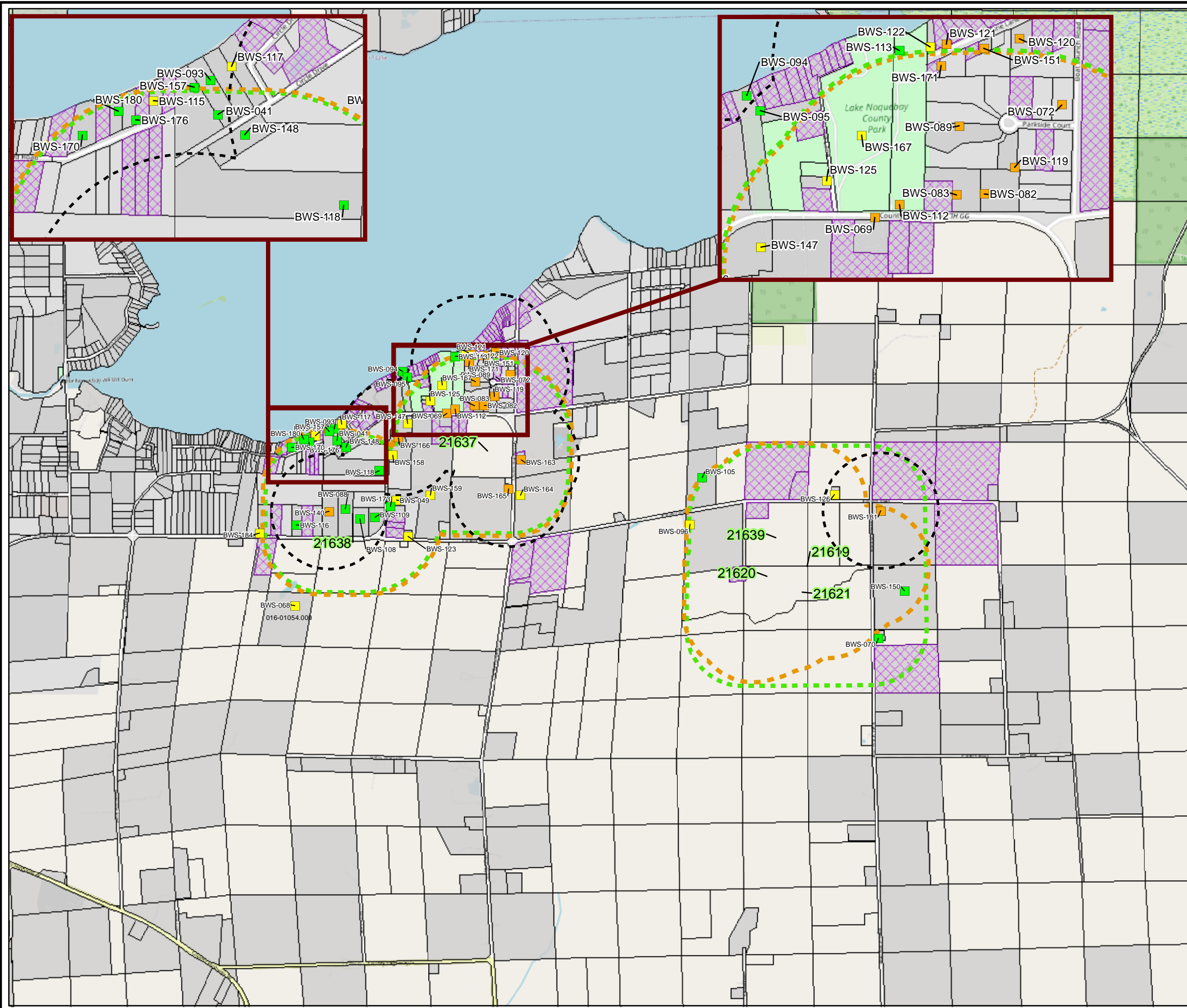


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Land Applied Biosolids Updated Buffer Map



T:\ENV\TYCO\MXD\Biosolids\LandApplied_Biosolids\Figured_Biosolids_Sampling_ExceedingES.mxd 2/15/2022 3:02:19 PM Last Saved By: MEstifanos

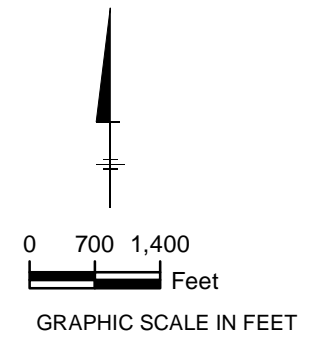


LEGEND:

- 21639 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:

Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

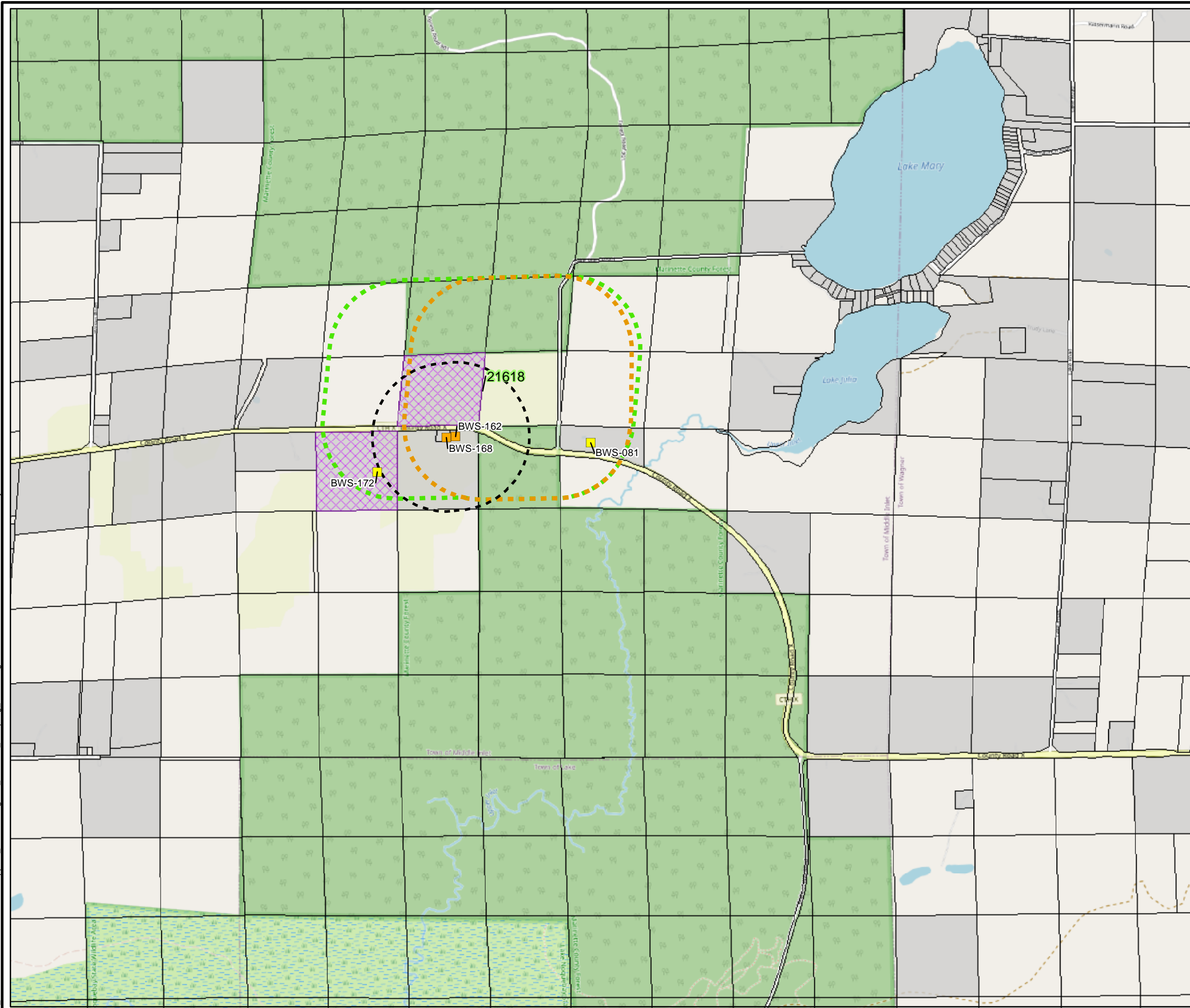


VARIOUS LOCATIONS IN MARINETTE
AND OCONTO COUNTIES, WISCONSIN

**Land Applied Biosolids Updated
Buffer Map**



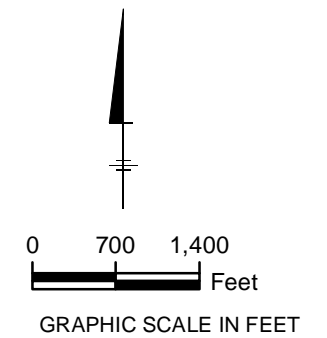
T:\ENV\TYCO\MXD\Biosolids\LandApplied_Biosolids\Figure5_Biosolids_Sampling_ExceedingES.mxd 2/15/2022 3:06:49 PM Last Saved By: MEslifanos



LEGEND:

- 21618 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

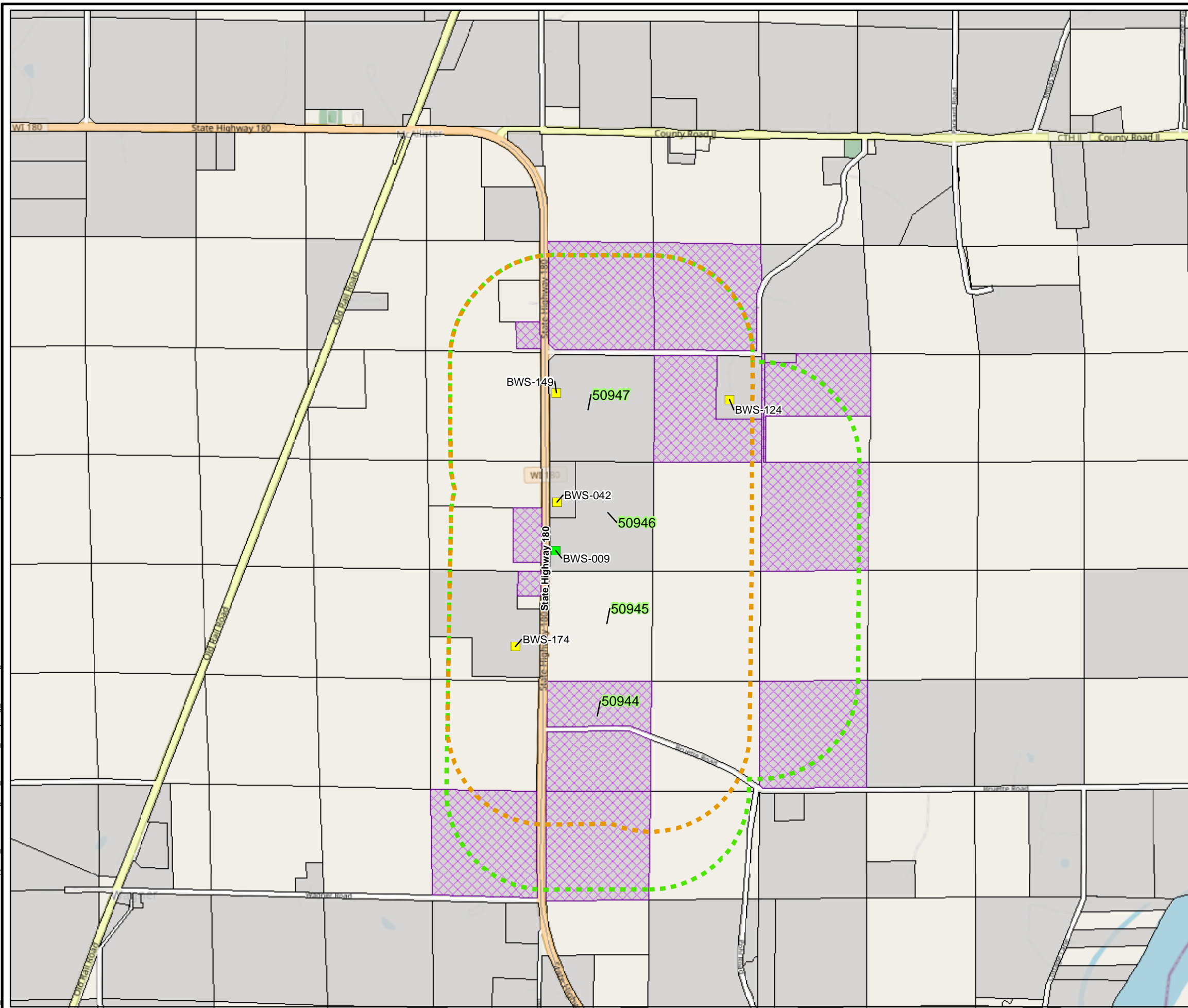


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Land Applied Biosolids Updated Buffer Map

ARCADIS | **FIGURE 5**

T:\ENVT\YCO\MXD\Biosolids\LandApplied_Biosolids\Figure6_Biosolids_Sampling_ExceedingES.mxd 2/15/2022 3:09:19 PM Last Saved By: MEstifanos



LEGEND:

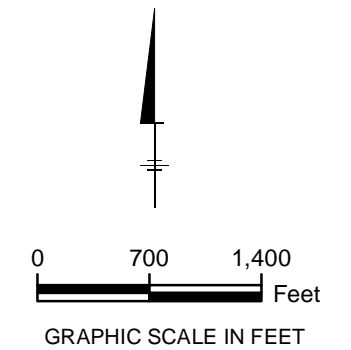
50947 LAND APPLICATION SITE

Drinking Water Results

- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:

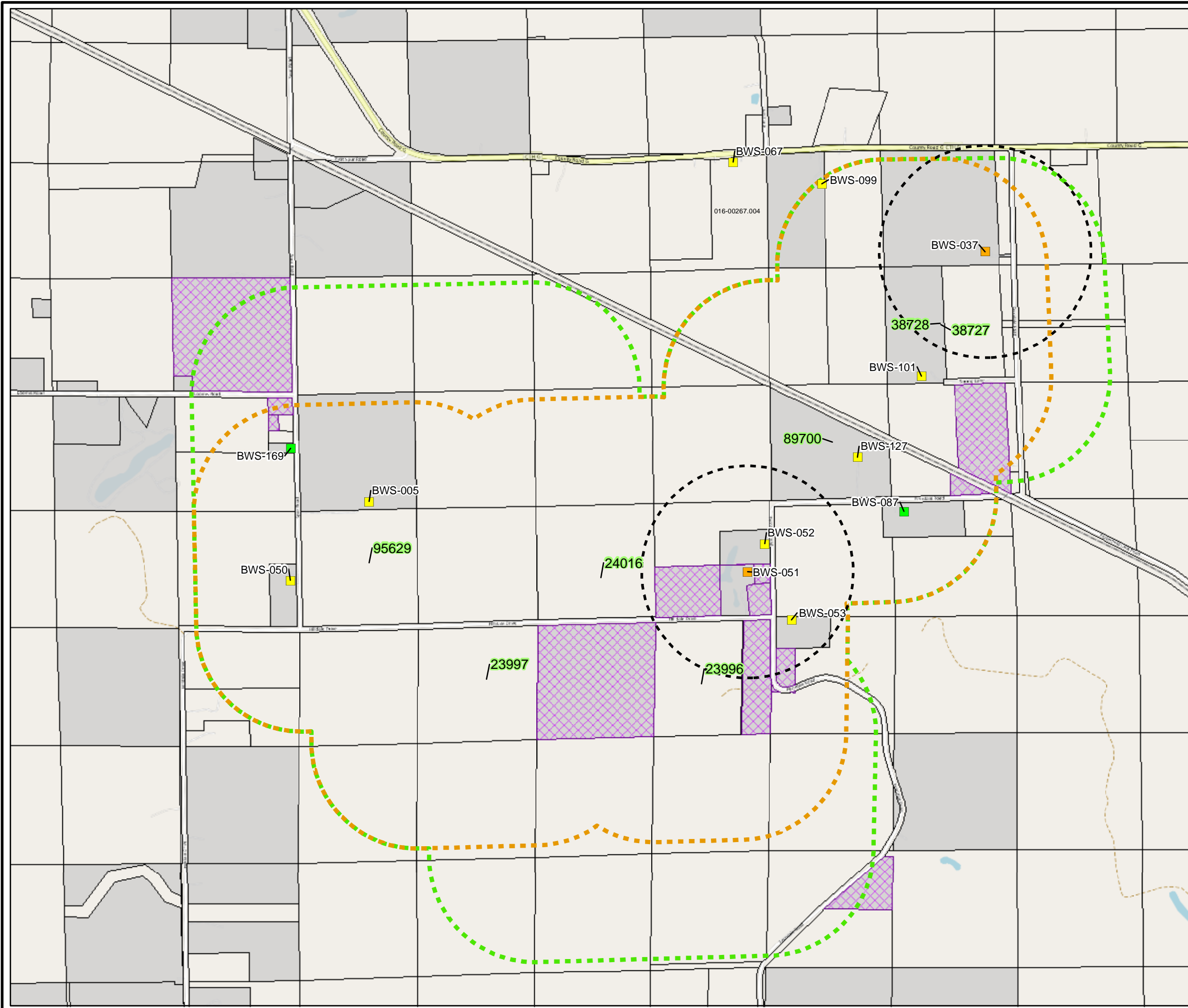
Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard



VARIOUS LOCATIONS IN MARINETTE
AND OCONTO COUNTIES, WISCONSIN

**Land Applied Biosolids Updated
Buffer Map**

T:\ENV\TYCO\MXD\Biosolids\LandApplied_Biosolids\Figure7_Biosolids_Sampling_ExceedingES.mxd 2/15/2022 3:12:22 PM Last Saved By: MEstifanos

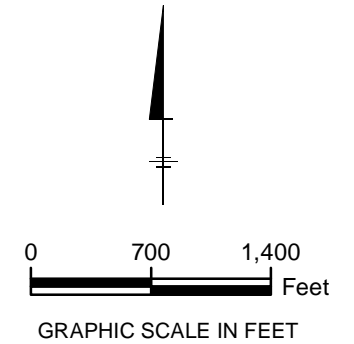


LEGEND:

- 24016 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:

Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

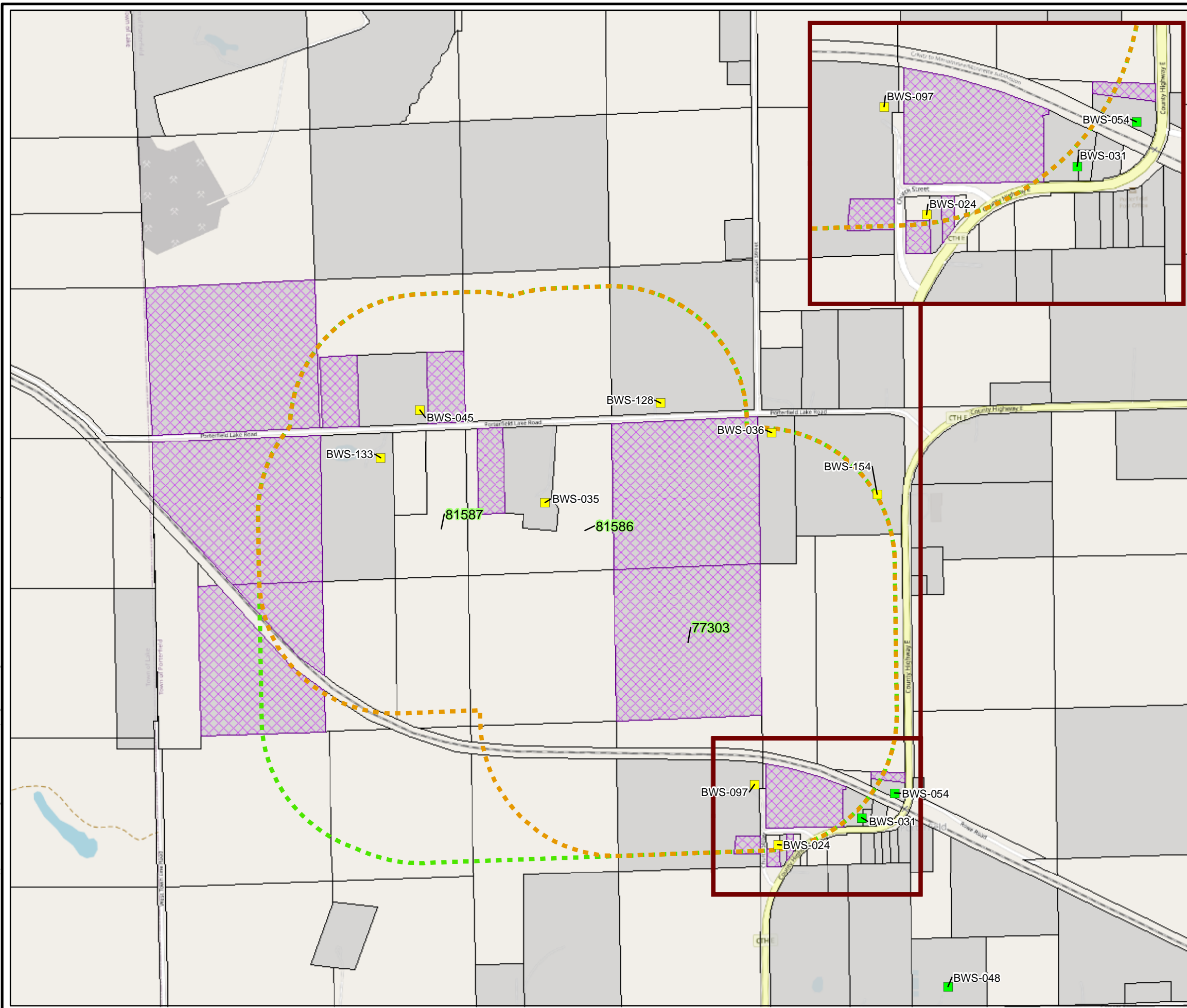


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Land Applied Biosolids Updated Buffer Map



T:\ENV\YCO\MXD\Biosolids\Land\Applied_Biosolids\Figure8_Biosolids_Sampling_ExceedingES.mxd 2/15/2022 3:17:09 PM Last Saved By: MEstifanos

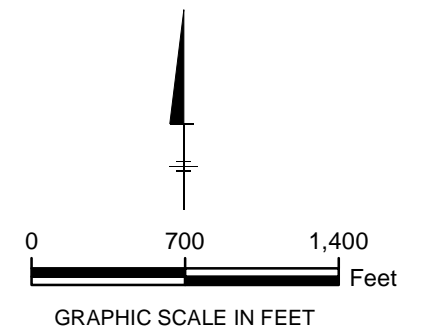


LEGEND:

- 81586** LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:

Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

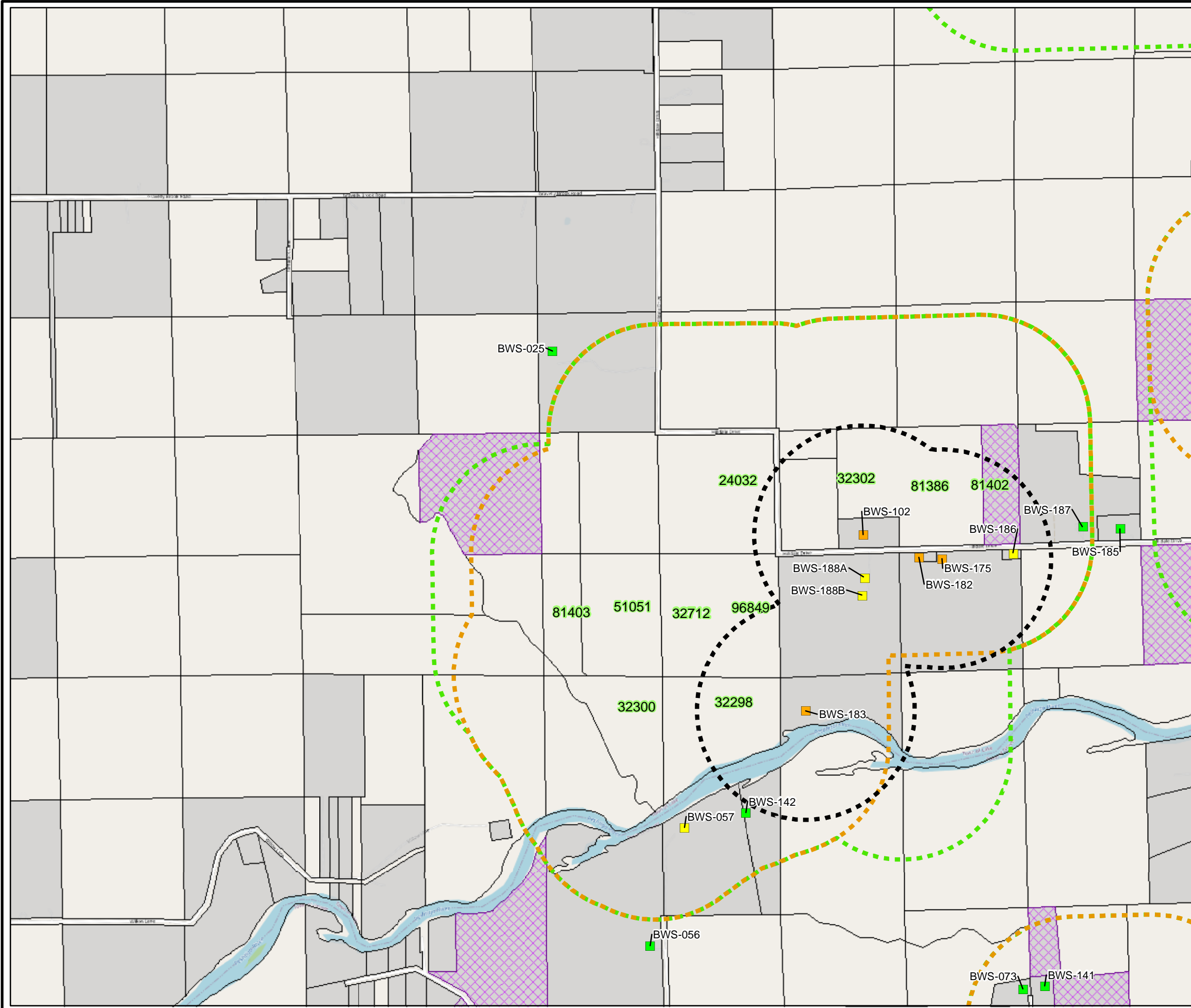


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Land Applied Biosolids Updated Buffer Map

ARCADIS | **FIGURE 8**

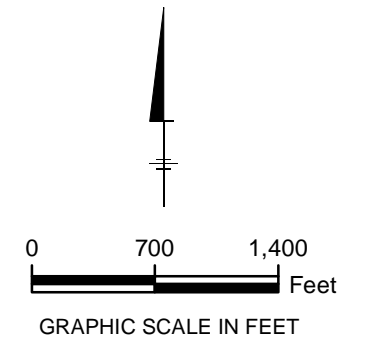
T:\ENV\TYCO\MXD\Biosolids\LandApplied_Biosolids\Figure9_Biosolids_Sampling_ExceedingES.mxd 2/15/2022 3:23:41 PM Last Saved By: MEstifanos



LEGEND:

- 24032 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

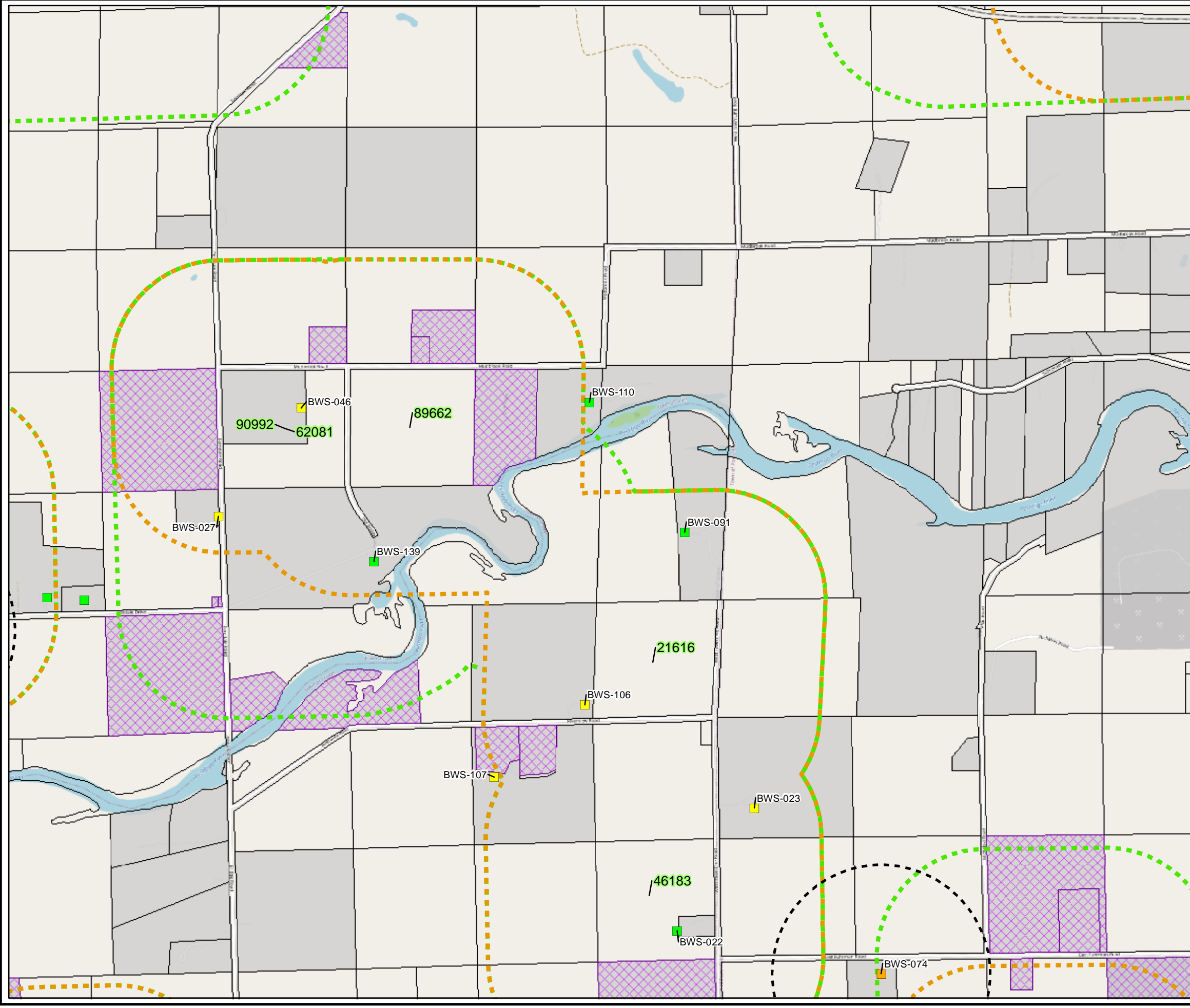


VARIOUS LOCATIONS IN MARINETTE
AND OCONTO COUNTIES, WISCONSIN

**Land Applied Biosolids Updated
Buffer Map**



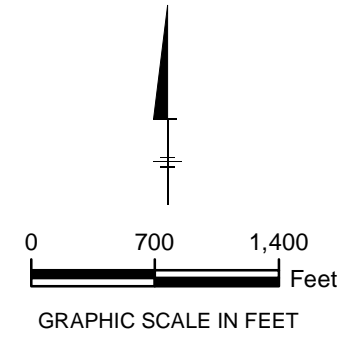
T:\ENVT\CO\MXD\Biosolids\LandApplied_Biosolids\Figure10_Biosolids_Sampling_ExceedingES.mxd 2/15/2022 3:27:54 PM Last Saved By: MEstifanos



LEGEND:

- 21616 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

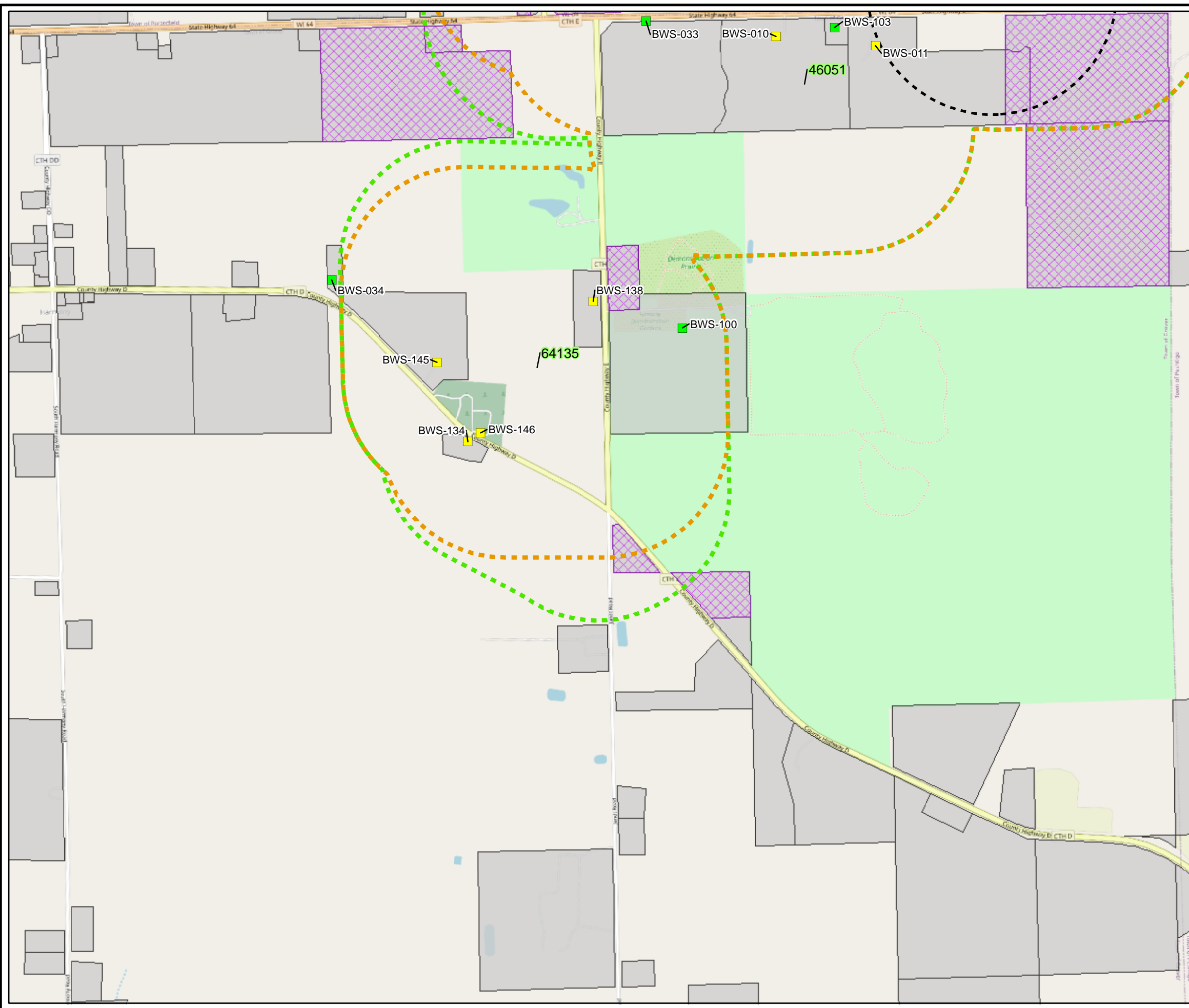


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Land Applied Biosolids Updated Buffer Map

ARCADIS | **FIGURE 10**

T:\ENV\TYCO\MXD\Biosolids\LandApplied_Biosolids\Figure11_Biosolids_Sampling_ExceedingES.mxd 2/15/2022 3:38:32 PM Last Saved By: MEstifanos



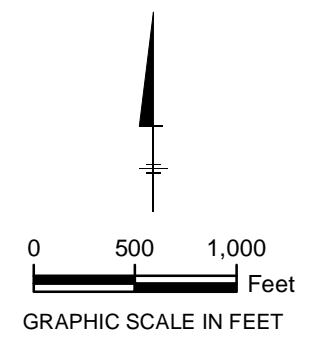
LEGEND:

- 64135 LAND APPLICATION SITE

Drinking Water Results

- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard



VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Land Applied Biosolids Updated Buffer Map

ARCADIS | **FIGURE 11**

T:\ENV\YCO\MXD\Biosolids\LandApplied_Biosolids\Figure12_Biosolids_Sampling_ExceedingES.mxd 2/15/2022 3:42:17 PM Last Saved By: MEstifanos

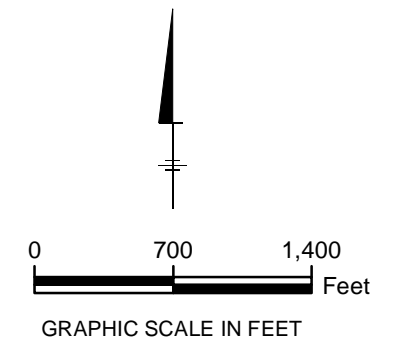


LEGEND:

- 23948 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:

Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

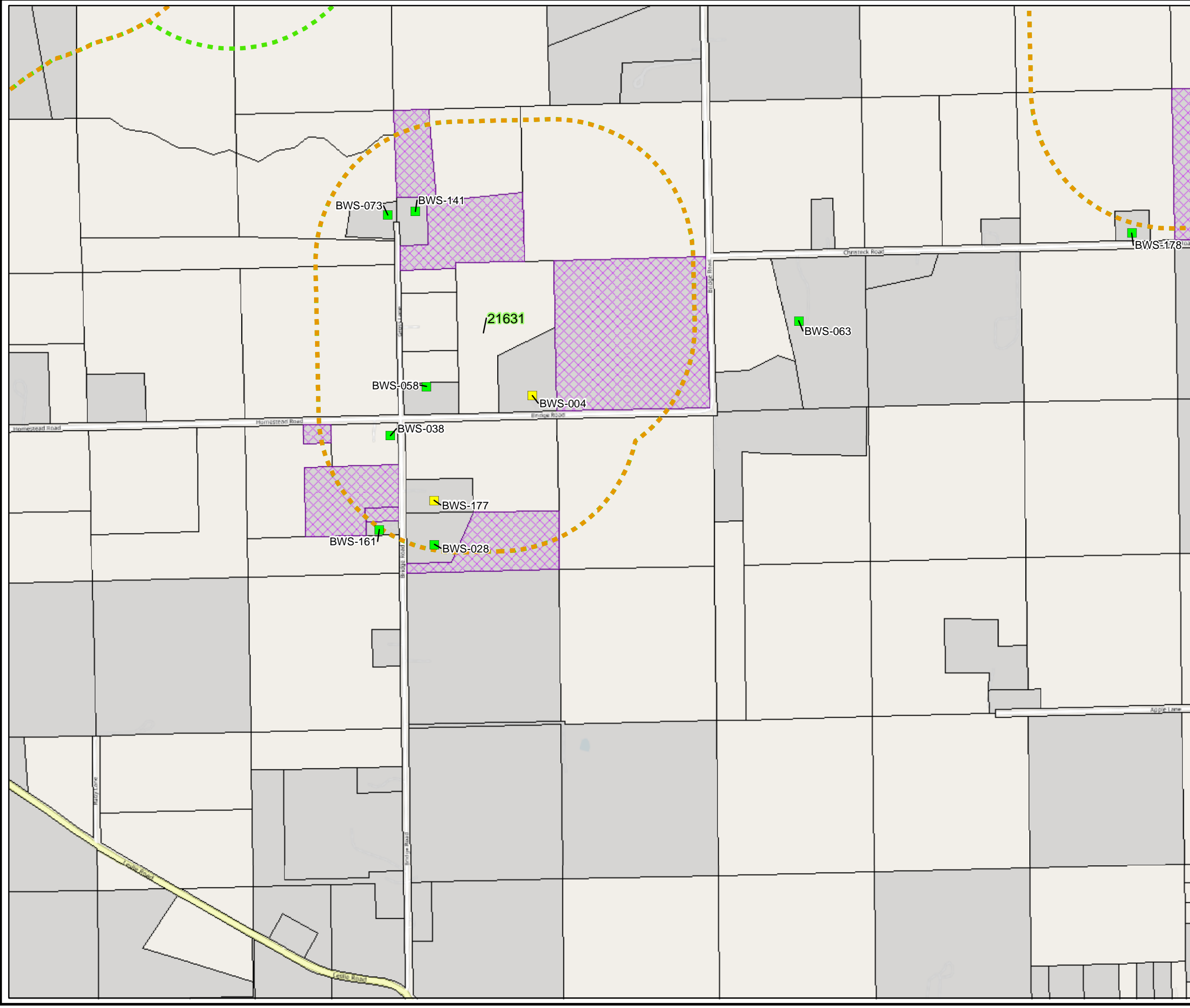


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Land Applied Biosolids Updated Buffer Map



T:\ENV\TYCO\MXD\Biosolids\LandApplied_Biosolids\Figure13_Biosolids_Sampling_ExceedingES.mxd 2/15/2022 3:46:34 PM Last Saved By: MEstifanos

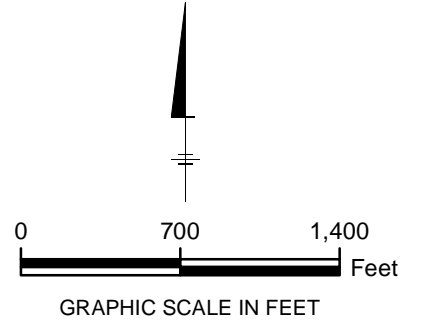


LEGEND:

- 21631 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:

Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

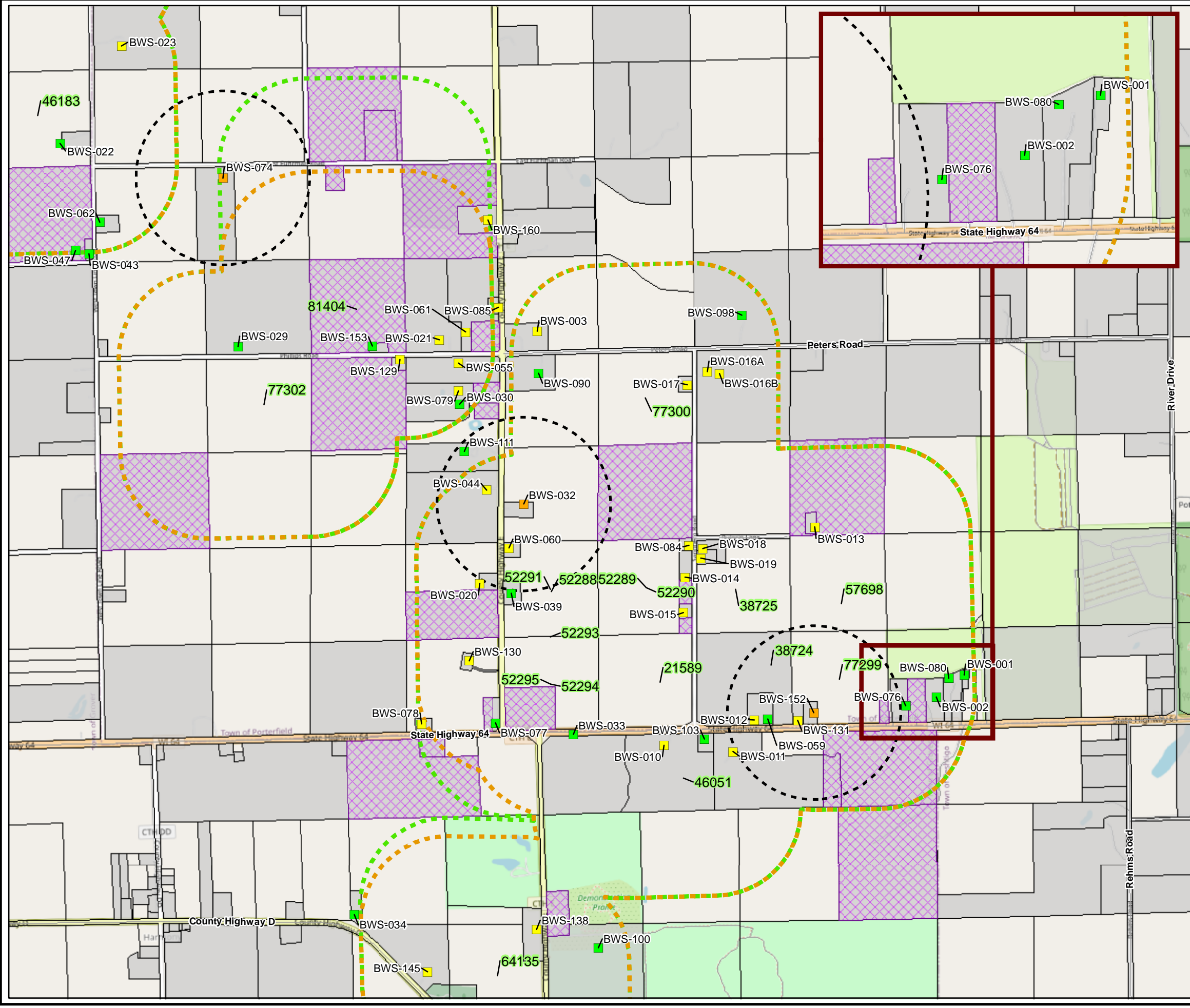


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Land Applied Biosolids Updated Buffer Map

ARCADIS | **FIGURE 13**

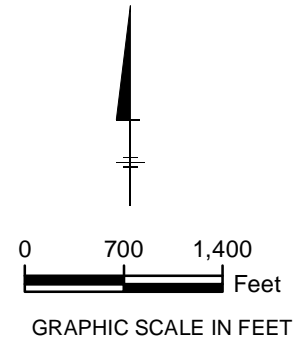
T:\ENV\YCO\MXD\Biosolids\LandApplied_Biosolids\Figure14_Biosolids_Sampling_ExceedingES.mxd 2/15/2022 3:49:50 PM Last Saved By: MEstifanos



LEGEND:

- 57698 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- 1200 FT BUFFER OF SAMPLES EXCEEDING ES
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE (DNR)
- PROPERTIES BEING OFFERED BOTTLED WATER
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

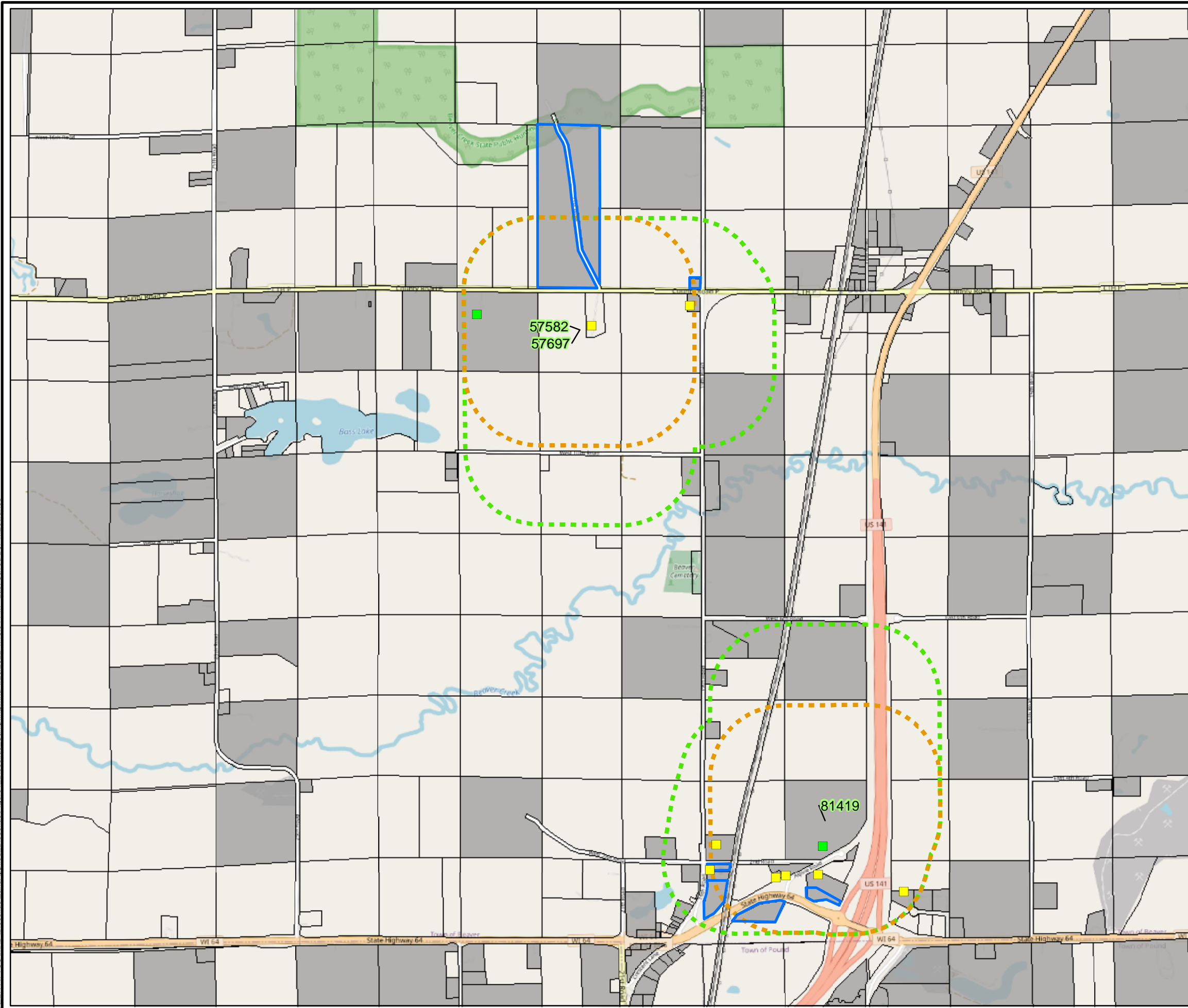


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Land Applied Biosolids Updated Buffer Map

ARCADIS | **FIGURE 14**

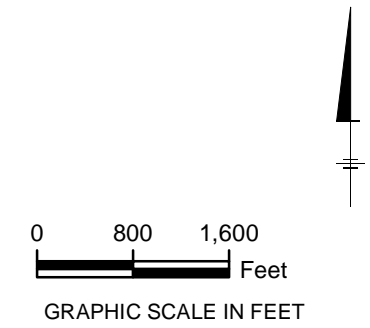
T:\ENV\TYCO\MXD\Biosolids\LandApplied_Biosolids\Figure1_Biosolids_Sampling.mxd 1/20/2022 4:48:04 PM Last Saved By: MEstifanos



LEGEND:

- 57582 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- NON-RESPONSIVE/REFUSAL
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

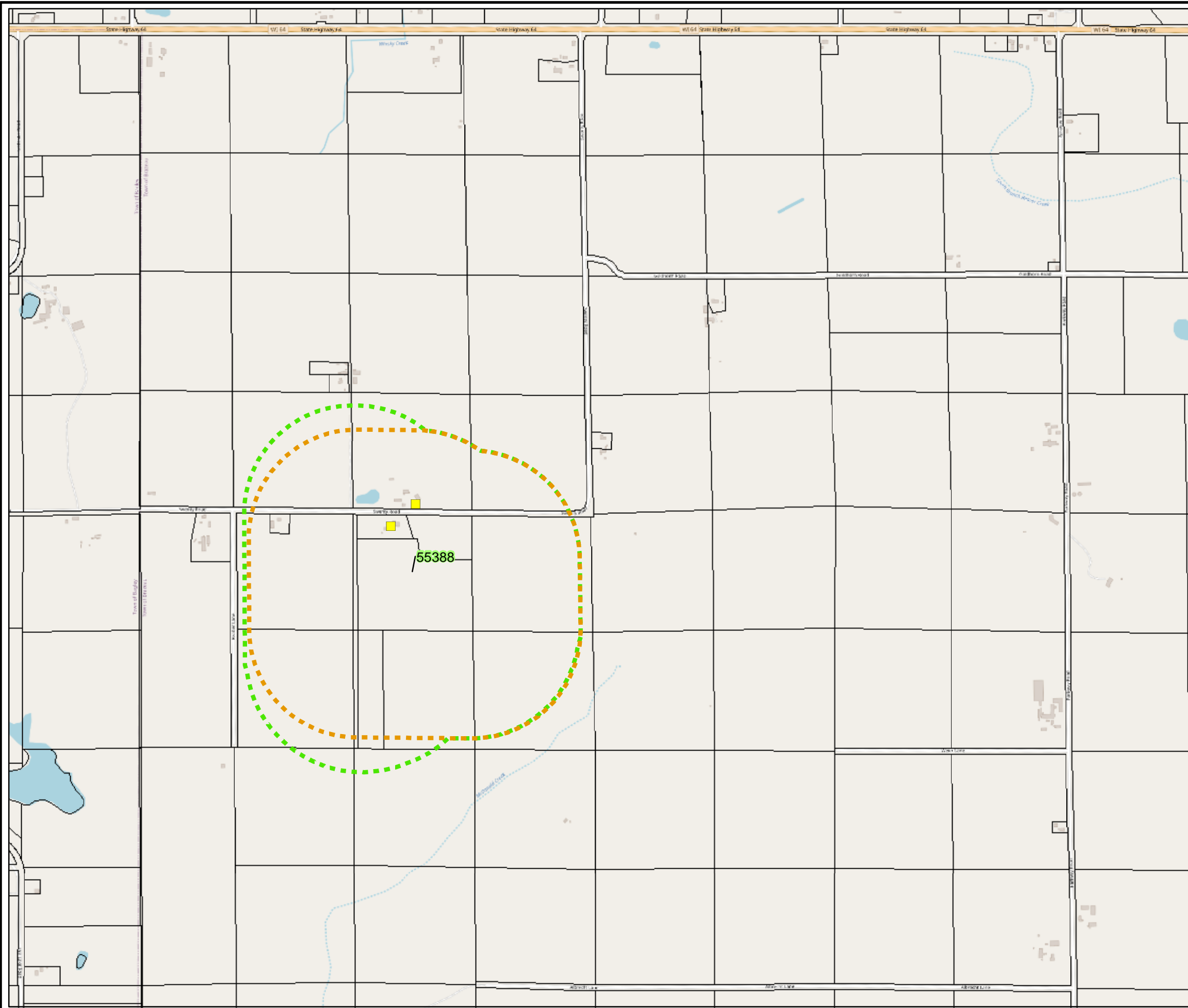
NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard



VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Refusals and Non-Responsive Properties within Original Buffer Zones

T:\ENV\TYCO\MXD\Biosolids\LandApplied_Biosolids\Figure2_Biosolids_Sampling.mxd 1/20/2022 4:44:41 PM Last Saved By: MEstifanos



LEGEND:

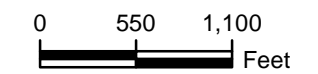
55388 LAND APPLICATION SITE

Drinking Water Results

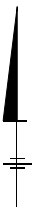
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- NON-RESPONSIVE/REFUSAL
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:

Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard



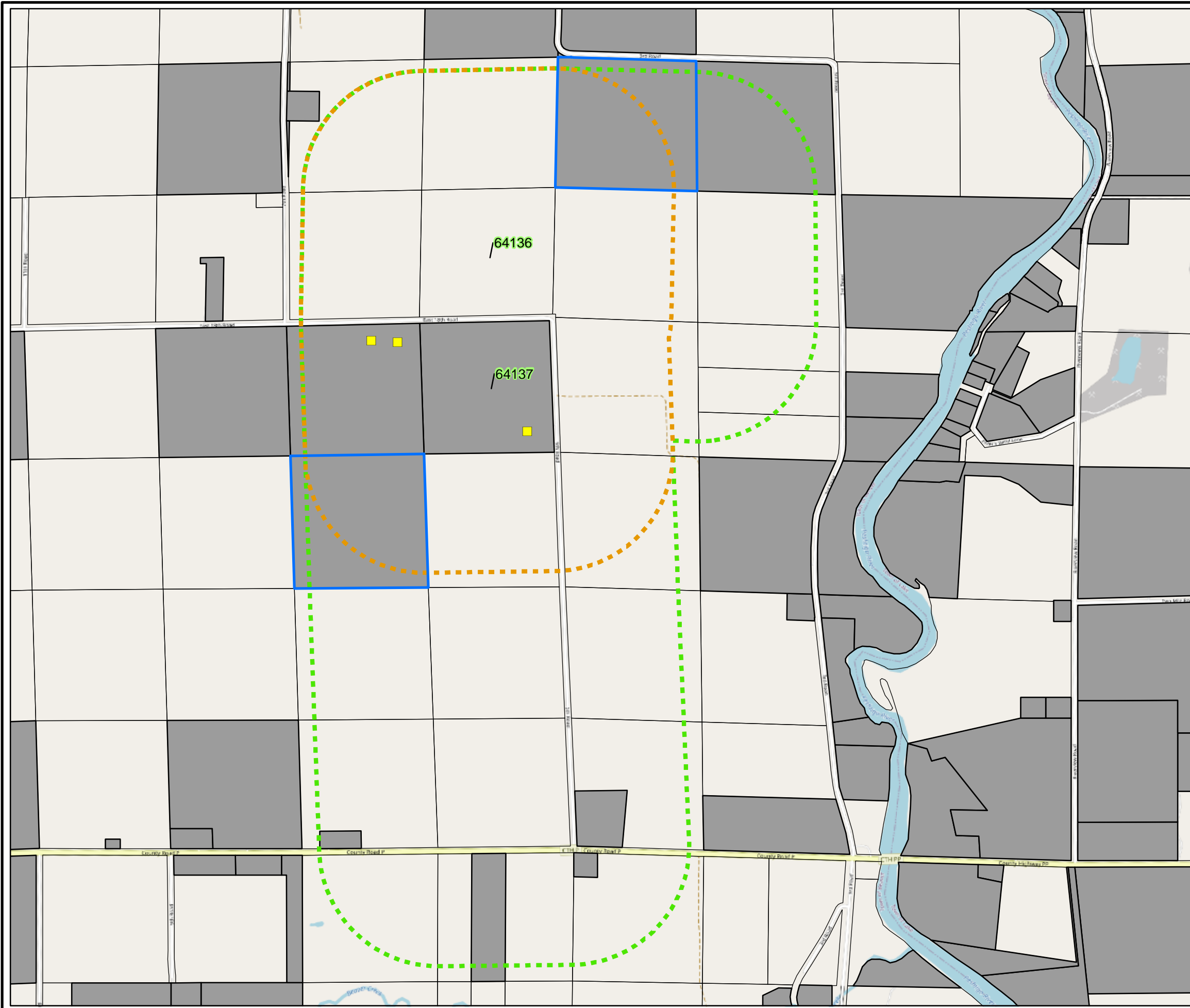
GRAPHIC SCALE IN FEET



VARIOUS LOCATIONS IN MARINETTE
 AND OCONTO COUNTIES, WISCONSIN

**Refusals and Non-Responsive Properties
 within Original Buffer Zones**



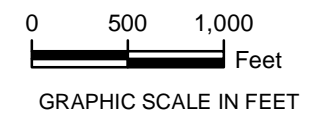


LEGEND:

- 64137 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- NON-RESPONSIVE/REFUSAL
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:

Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

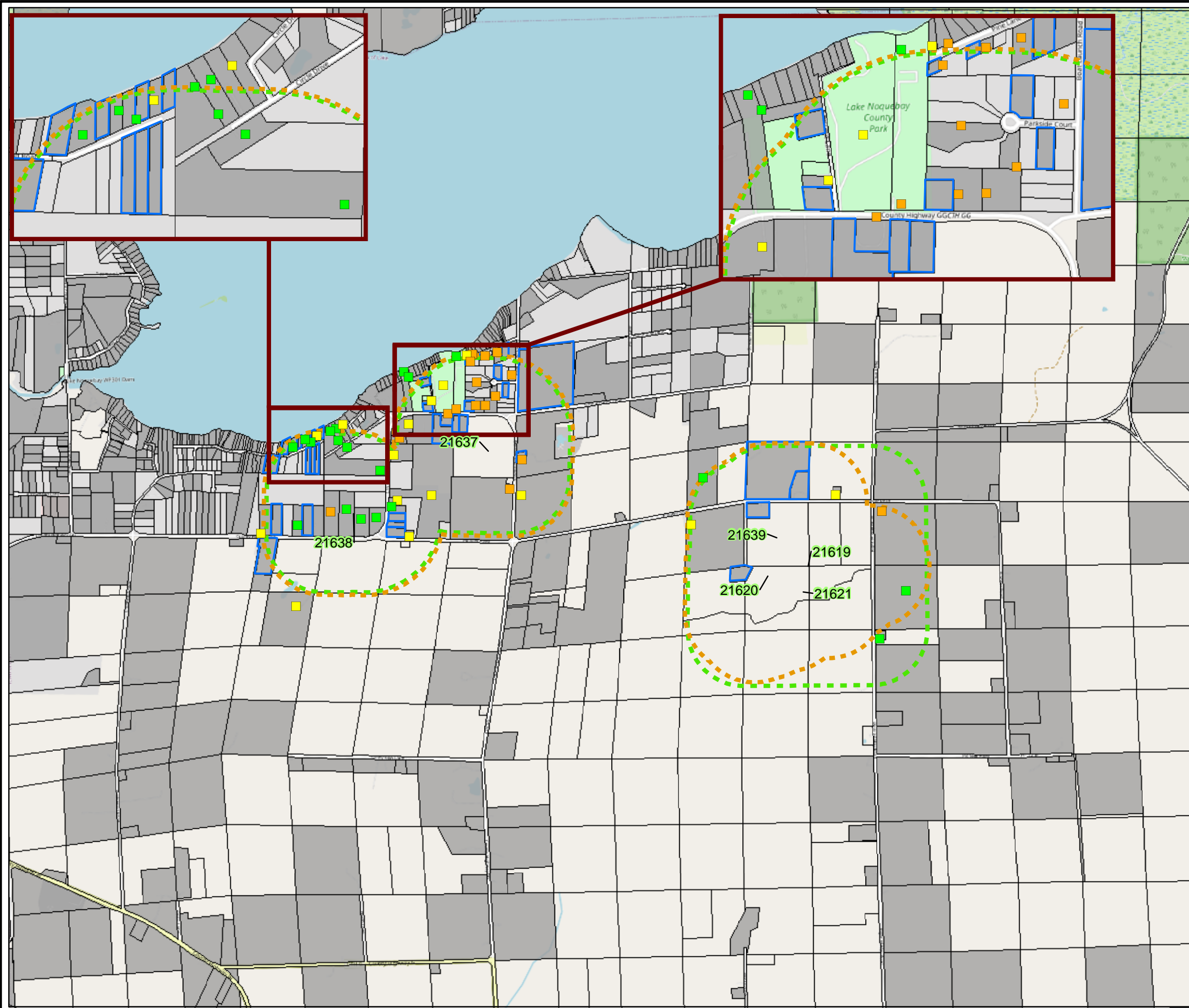


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Refusals and Non-Responsive Properties within Original Buffer Zones



T:\ENV\TYCO\MXD\Biosolids\Land\Applied_Biosolids\Figured_Sampling.mxd 1/20/2022 5:07:44 PM Last Saved By: MEstifanos



LEGEND:

- 21639 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- NON-RESPONSIVE/REFUSAL
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:

Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

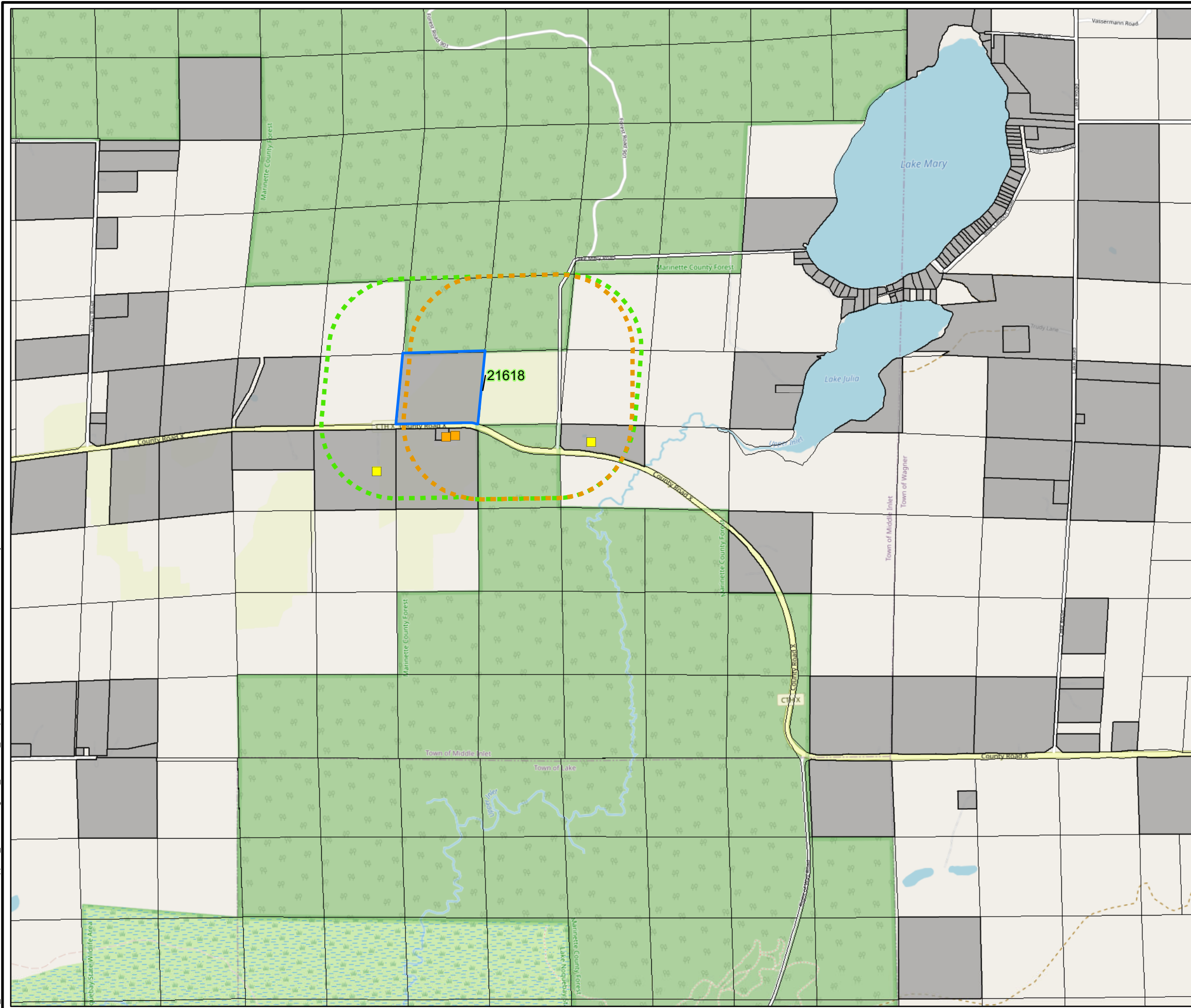
0 1,030 2,060
 Feet
 GRAPHIC SCALE IN FEET

VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Refusals and Non-Responsive Properties within Original Buffer Zones



T:\ENVY\COM\X\Biosolids\LandApplied_Biosolids\Figure5_Biosolids_Sampling.mxd 1/20/2022 5:16:17 PM Last Saved By: MEstifanos



LEGEND:

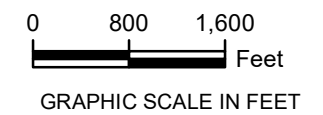
21618 LAND APPLICATION SITE

Drinking Water Results

- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- NON-RESPONSIVE/REFUSAL
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:

Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

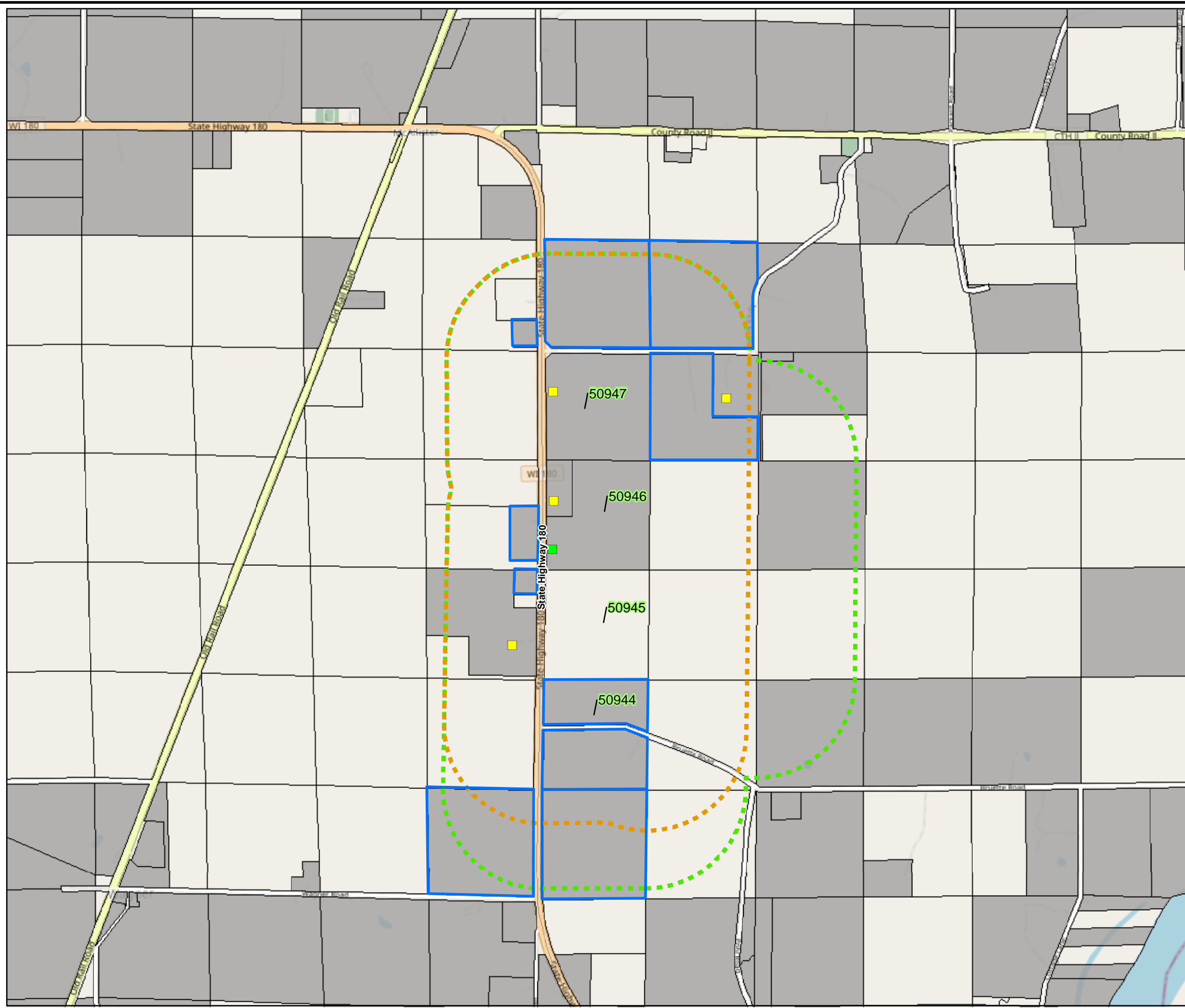


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Refusals and Non-Responsive Properties within Original Buffer Zones



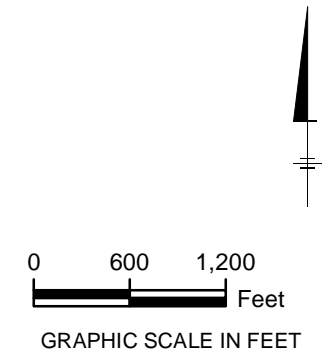
T:\ENV\TYCO\MXD\Biosolids\Land\Applied Biosolids\Figure6_Biosolids_Sampling.mxd 1/20/2022 5:33:12 PM Last Saved By: MEstifanos



LEGEND:

- 50947 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- BECAME UNRESPONSIVE
- NON-RESPONSIVE/REFUSAL
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

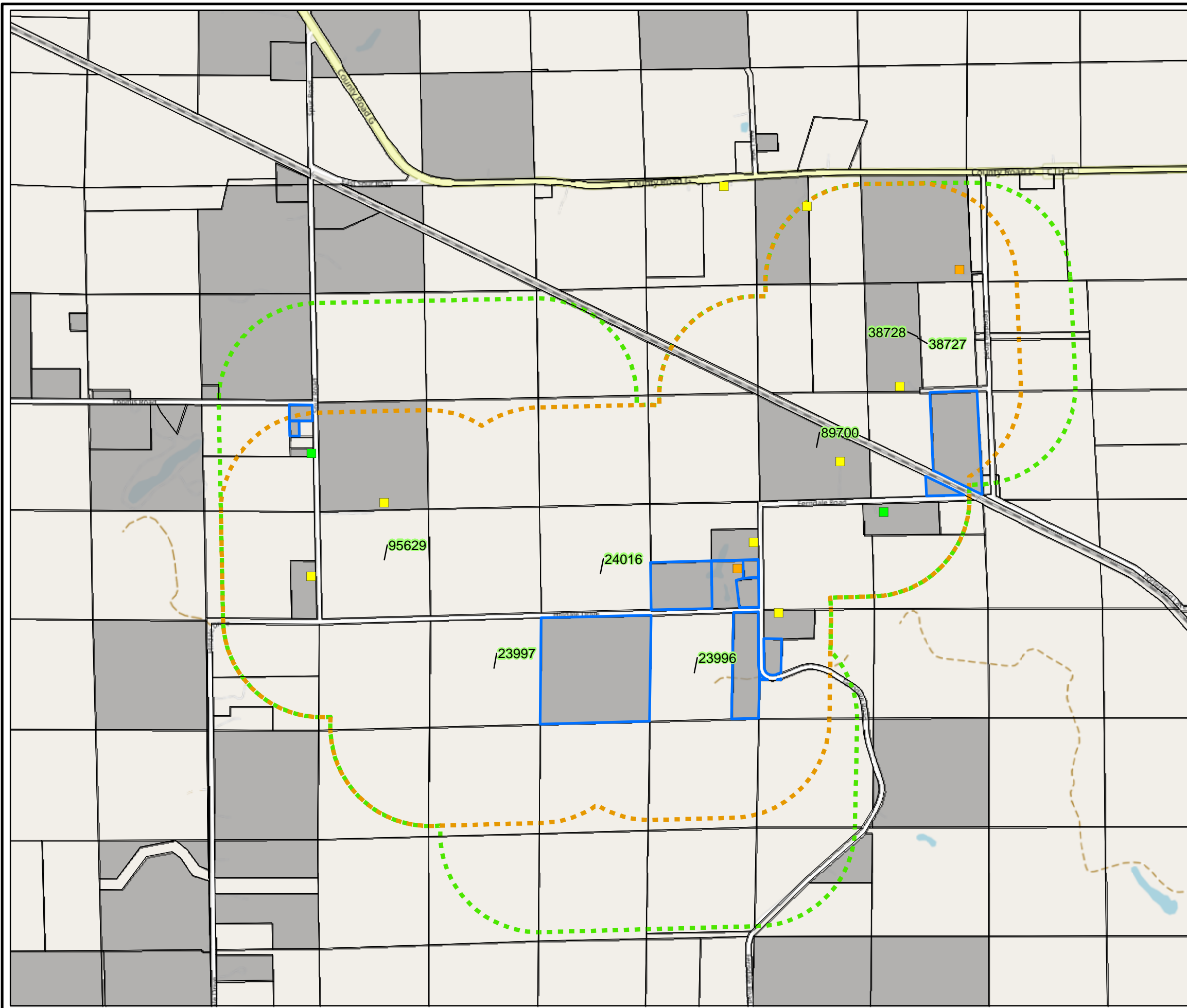


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Refusals and Non-Responsive Properties within Original Buffer Zones

ARCADIS | **FIGURE 6**

T:\ENV\TYCO\MXD\Biosolids\LandApplied_Biosolids\Figure7_Biosolids_Sampling.mxd 1/20/2022 5:40:36 PM Last Saved By: MEstifanos



LEGEND:

24016 LAND APPLICATION SITE

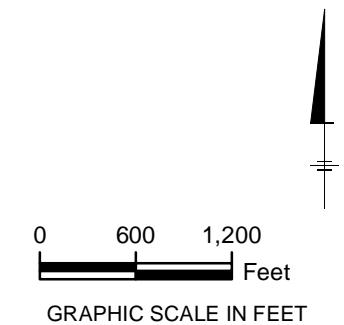
Drinking Water Results

- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES

- NON-RESPONSIVE/REFUSAL
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

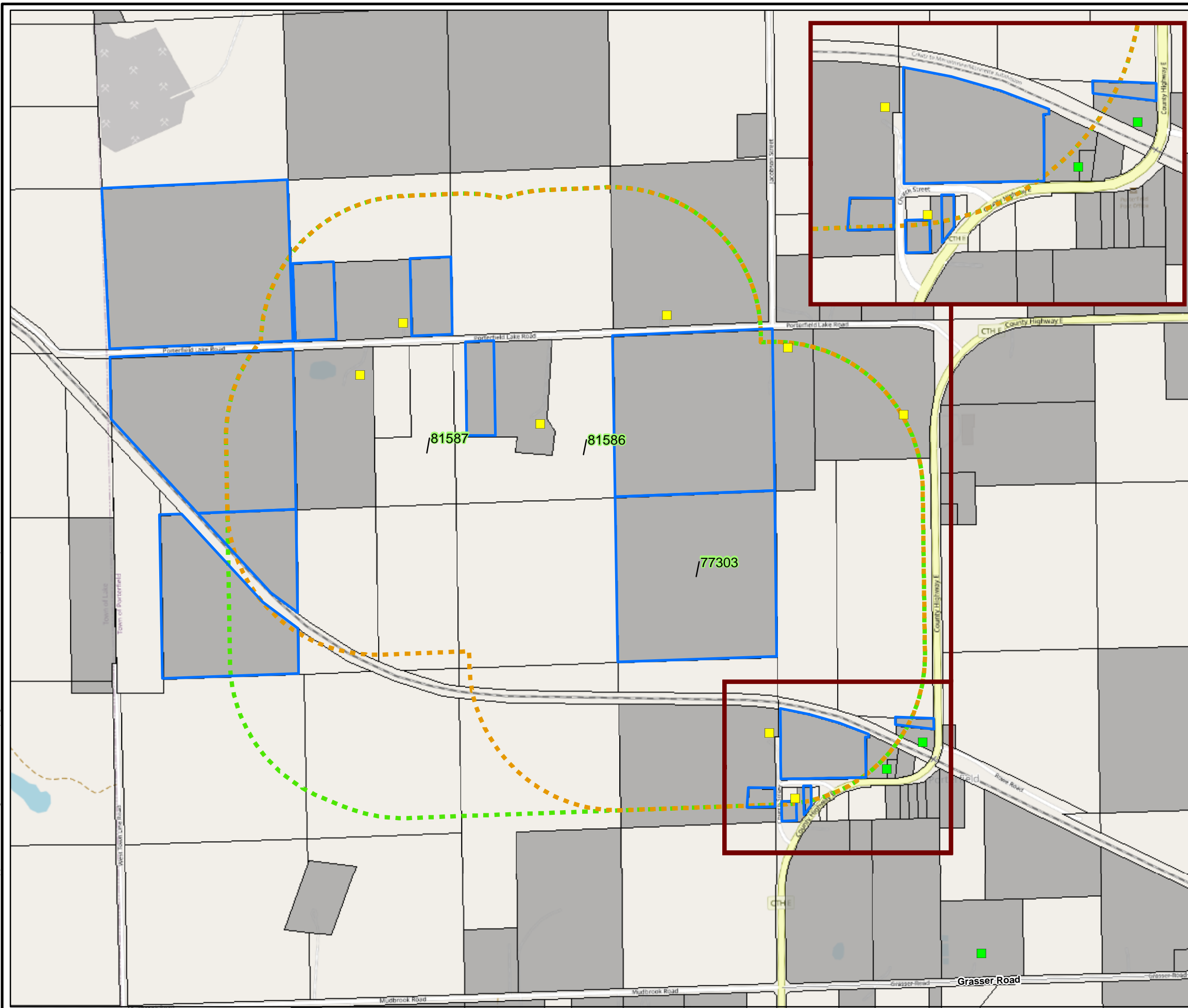
NOTES:

Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard



VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

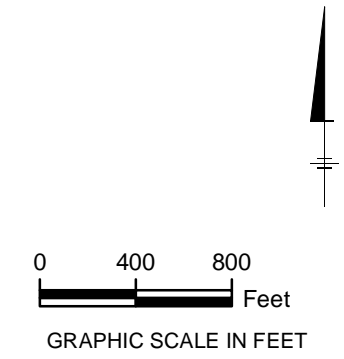
Refusals and Non-Responsive Properties within Original Buffer Zones



LEGEND:

- 81586 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- NON-RESPONSIVE/REFUSAL
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

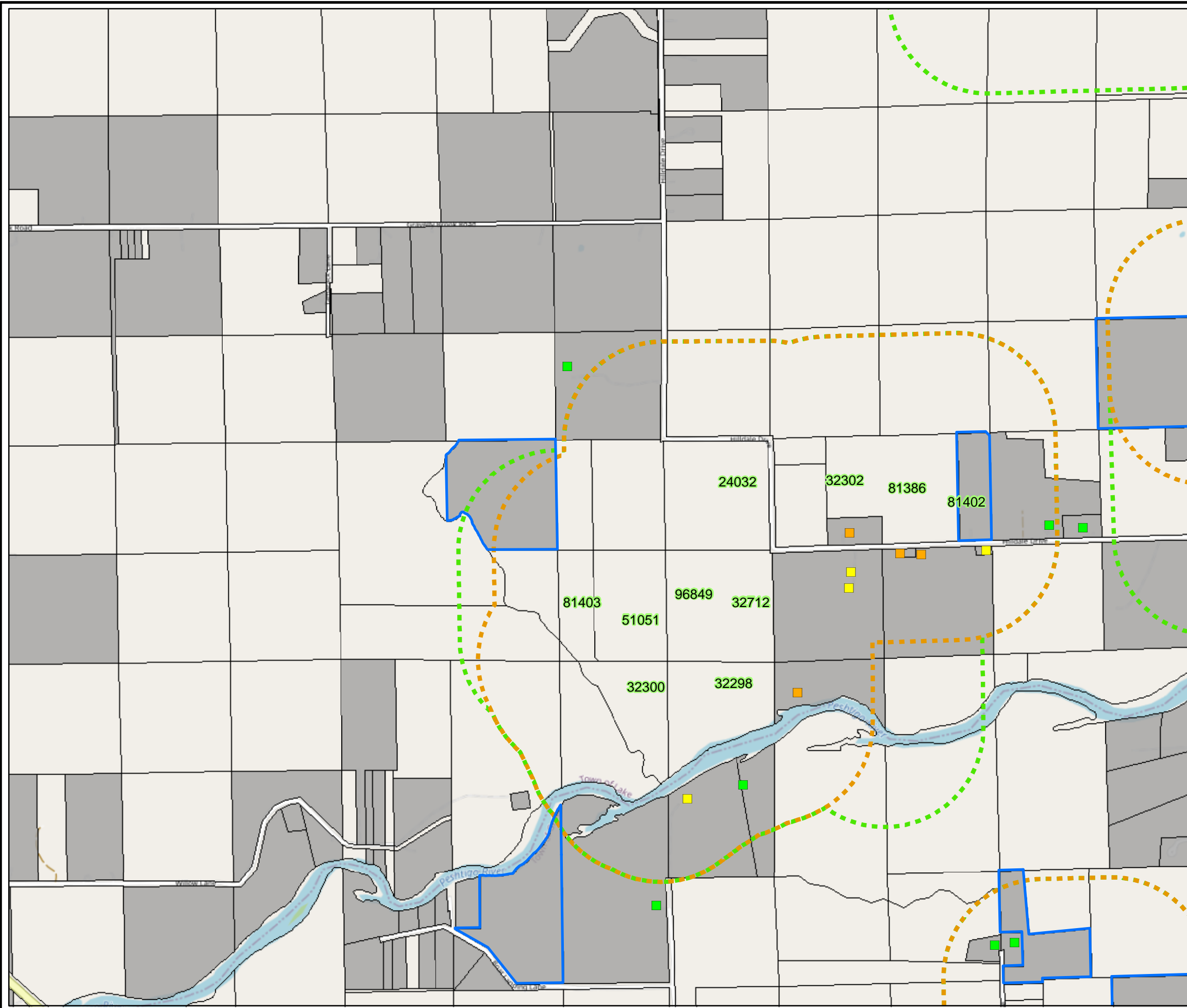


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Refusals and Non-Responsive Properties within Original Buffer Zones

ARCADIS | **FIGURE 8**

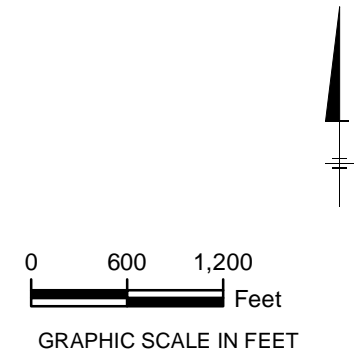
T:\ENV\TYCO\MXD\Biosolids\Land\Applied_Biosolids\Figure9_Biosolids_Sampling.mxd Last Saved By: MEstifanos



LEGEND:

- 24032 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- NON-RESPONSIVE/REFUSAL
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

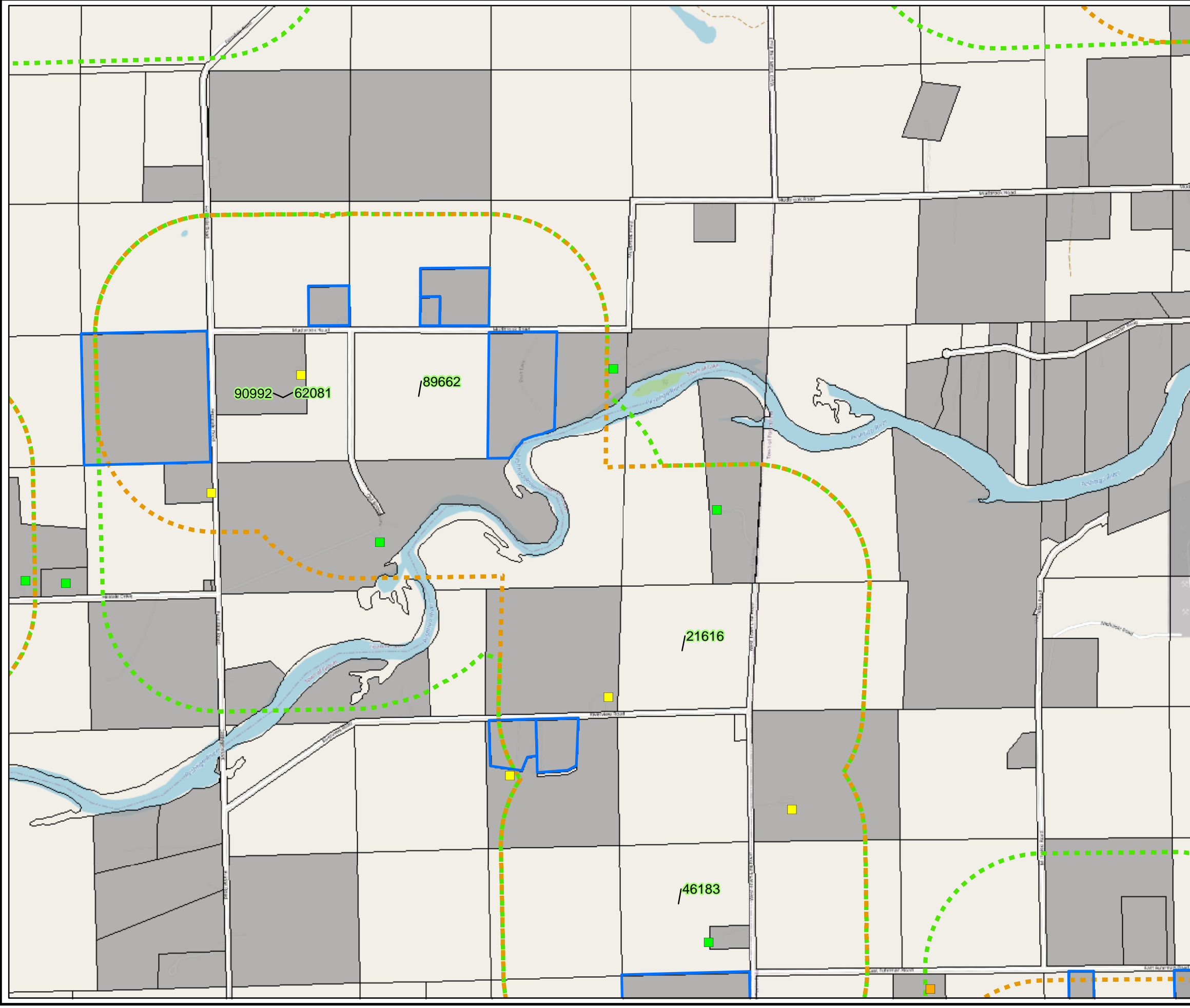


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Refusals and Non-Responsive Properties within Original Buffer Zones

ARCADIS | **FIGURE 9**

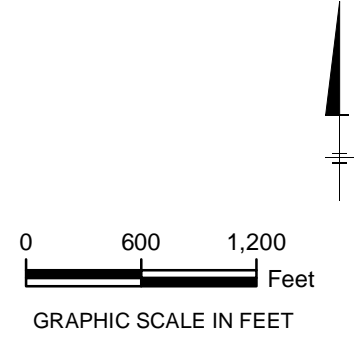
T:\ENV\TYCO\MXD\Biosolids\LandApplied_Biosolids\Figure10_Biosolids_Sampling.mxd 1/20/2022 6:17:09 PM Last Saved By: MEstifanos



LEGEND:

- 21616 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- NON-RESPONSIVE/REFUSAL
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

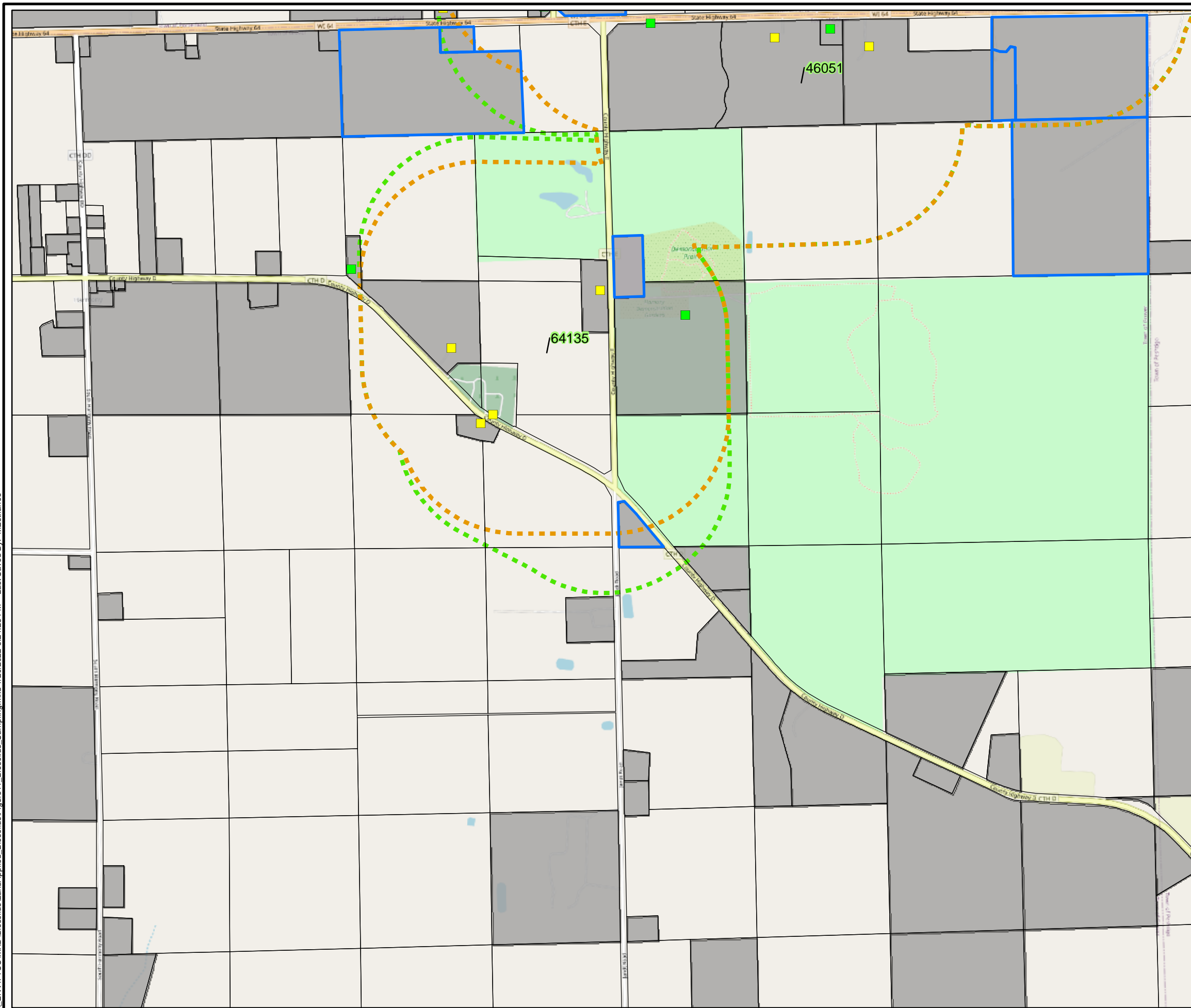


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Refusals and Non-Responsive Properties within Original Buffer Zones



T:\ENV\TYCO\MXD\Biosolids\LandApplied_Biosolids\Figure11_Biosolids_Sampling.mxd 1/20/2022 6:24:25 PM Last Saved By: MEstifanos

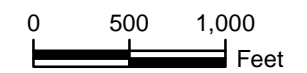
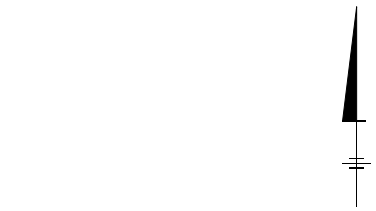


LEGEND:

- 64135 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- NON-RESPONSIVE/REFUSAL
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:

Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

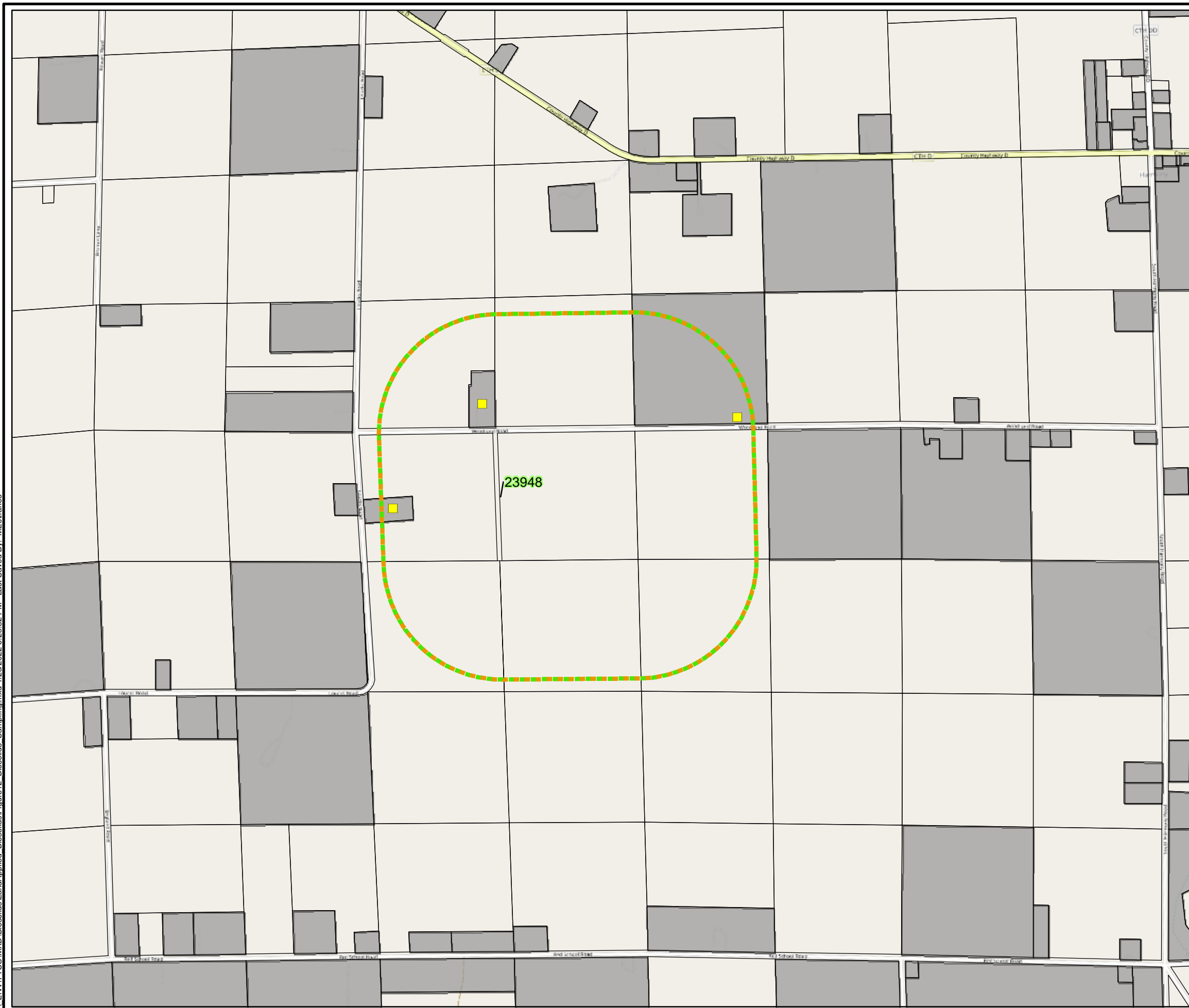


GRAPHIC SCALE IN FEET

VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Refusals and Non-Responsive Properties within Original Buffer Zones



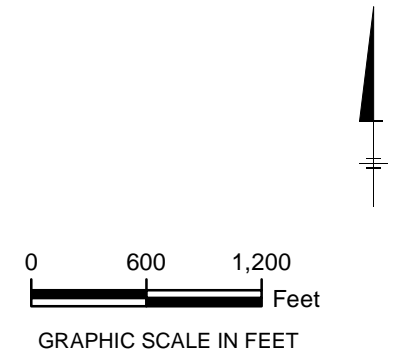


LEGEND:

- 23948 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- NON-RESPONSIVE/REFUSAL
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:

Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

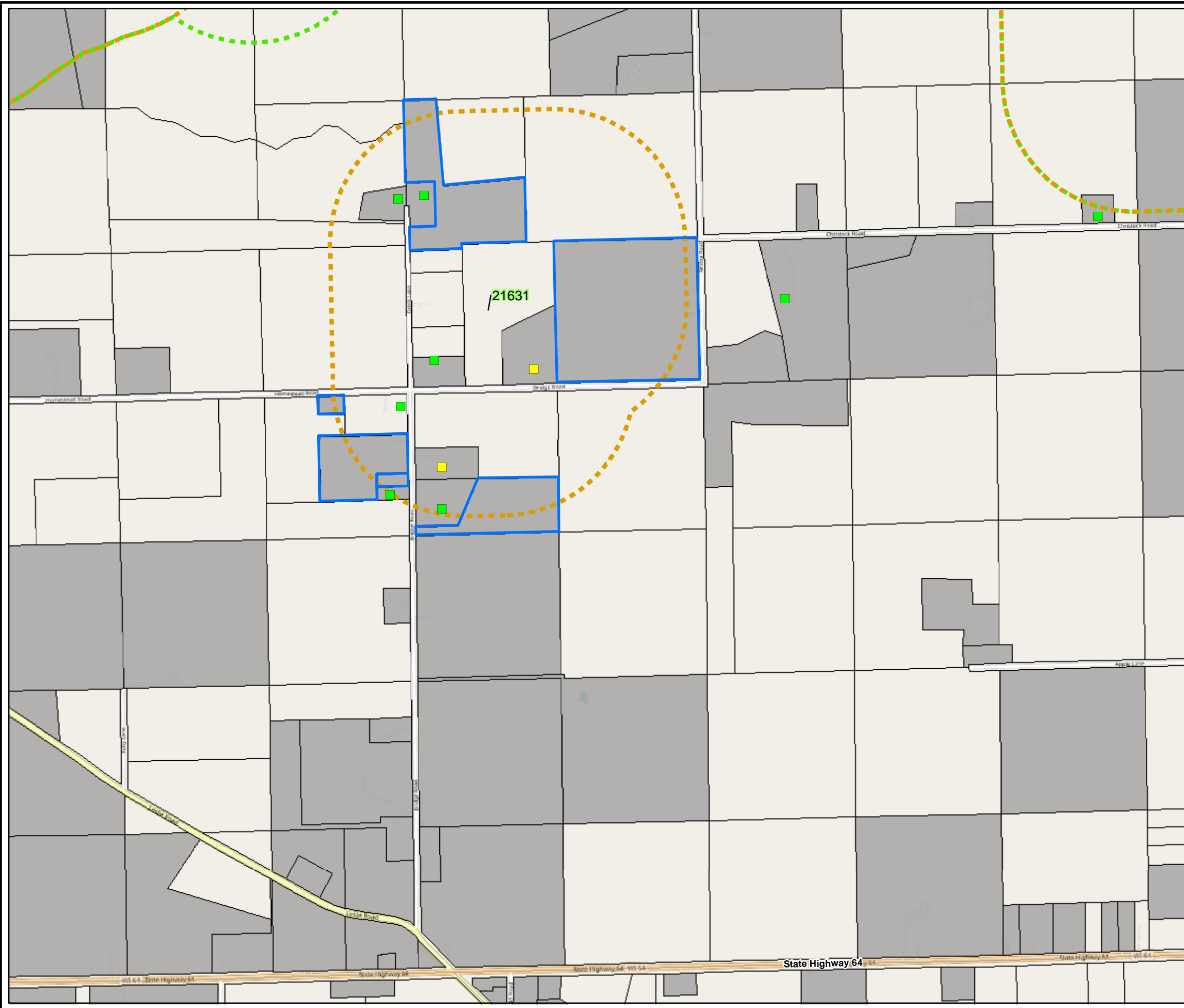


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Refusals and Non-Responsive Properties within Original Buffer Zones

ARCADIS | **FIGURE 12**

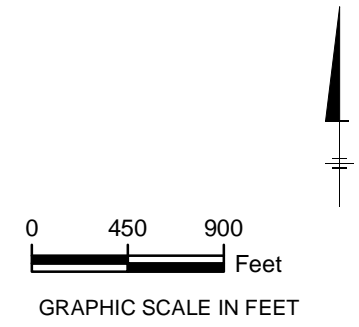
T:\ENV\YCO\MXD\Biosolids\LandApplied_Biosolids\Figure13_Biosolids_Sampling.mxd 1/20/2022 6:34:10 PM Last Saved By: MEstifanos



LEGEND:

- 21631 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- NON-RESPONSIVE/REFUSAL
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard

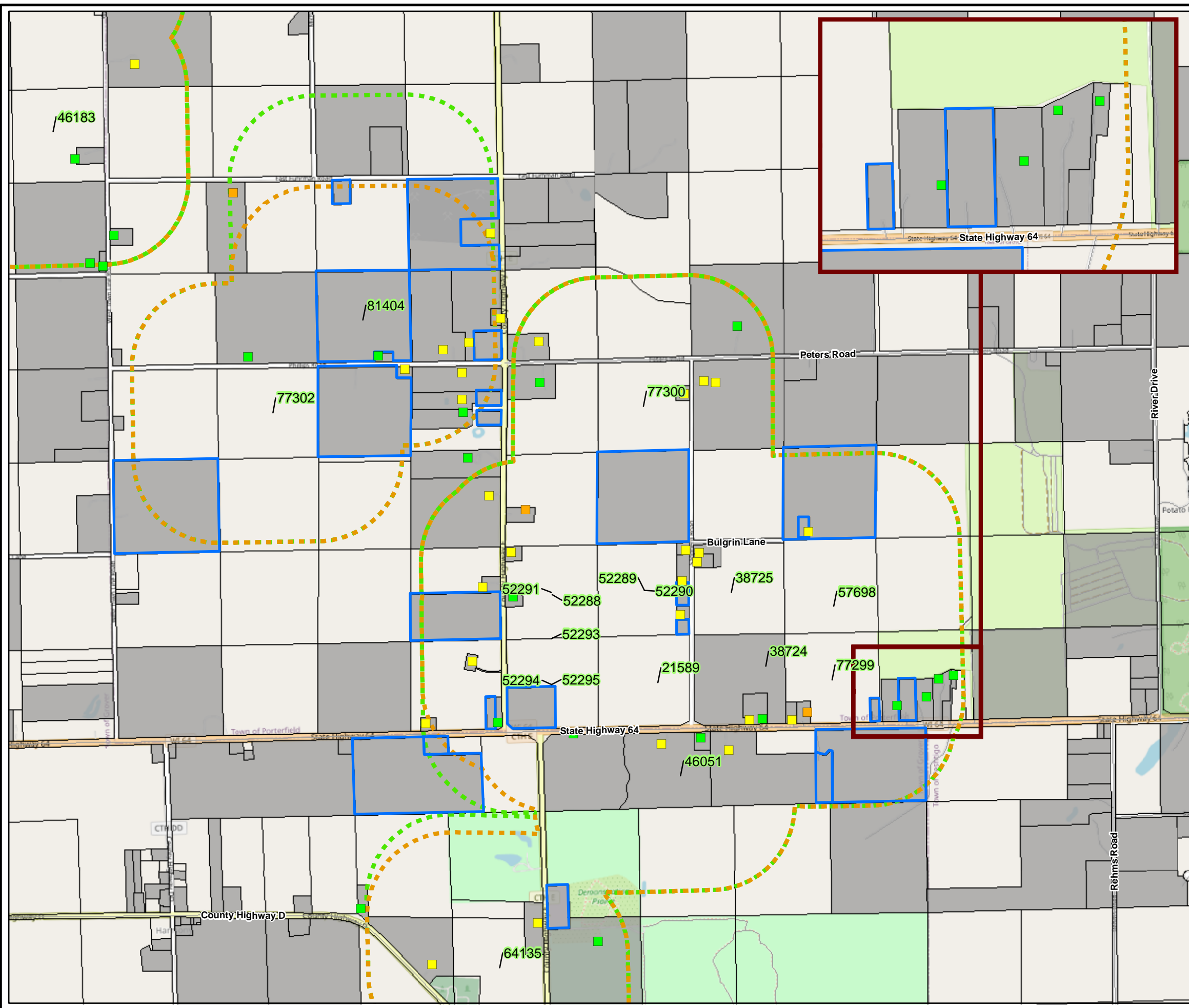


VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Refusals and Non-Responsive Properties within Original Buffer Zones

ARCADIS | **FIGURE 13**

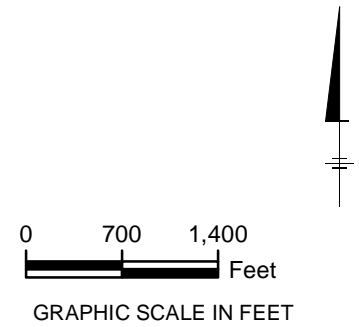
T:\ENV\TYCO\MXD\Biosolids\Land\Applied_Biosolids\Figure14_Biosolids_Sampling.mxd 1/20/2022 6:41:43 PM Last Saved By: MEstifanos



LEGEND:

- 57698 LAND APPLICATION SITE
- Drinking Water Results**
- NOT DETECTED ABOVE RL
- DETECTION BETWEEN RL AND ES
- DETECTION GREATER THAN ES
- NON-RESPONSIVE/REFUSAL
- ORIGINAL 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- UPDATED 1200 FT BUFFER OF PARCEL CONTAINING LAND APPLICATION SITE
- COUNTY PARCELS WITH IMPROVEMENTS
- PARCELS

NOTES:
 Results are compared against WDHS Cycle 11 Recommended Groundwater Standards.
 WDHS – Wisconsin Department of Health Services
 RL – Reporting Limit
 ES – Enforcement Standard



VARIOUS LOCATIONS IN MARINETTE AND OCONTO COUNTIES, WISCONSIN

Refusals and Non-Responsive Properties within Original Buffer Zones

Table 3
Wisconsin Unique Well Numbers for Potable Wells
Land-Applied Biosolids - Drinking Water Well Sampling Summary Report
Marinette and Oconto Counties, Wisconsin

Well Sample ID	WI Unique Well Number	Well Sample ID	WI Unique Well Number
BWS-004	KP405	BWS-107	8DK617
BWS-008	8MK385	BWS-109	RU211
BWS-009	VJ723	BWS-110	NP814
BWS-011	CL950	BWS-116	VJ713
BWS-013	QQ359	BWS-117	UH778
BWS-016B	AG649	BWS-118	XR890
BWS-020	QY987	BWS-119	VJ714
BWS-021	MH748	BWS-120	UY070
BWS-024	XB790	BWS-130	UT627
BWS-028	RU219	BWS-131	8DK721
BWS-029	8DK714	BWS-132	AA913
BWS-030	XE883	BWS-140	VK465
BWS-035	NK526	BWS-148	UY459
BWS-036	OL120	BWS-149	NK575
BWS-039	XH027	BWS-150	SO366
BWS-042	SL176	BWS-151	OU237
BWS-046	TA458	BWS-154	TM087
BWS-047	8DJ184	BWS-157	ZC147
BWS-050	XM207	BWS-161	MF159
BWS-053	8DK599	BWS-166	GG245
BWS-056	XV473	BWS-168	8DJ534
BWS-057	KQ539	BWS-170	XW431
BWS-058	WX912	BWS-172	UY064
BWS-059	TM428	BWS-180	OB057
BWS-066	JA965	BWS-182	HK458
BWS-068	MX463		
BWS-070	MR815		
BWS-072	ZD897		
BWS-076	LN767		
BWS-080	MR697		
BWS-087	NK567		
BWS-088	UO225		
BWS-089	WS239		
BWS-090	YS637		
BWS-092	QY852		

Notes:

Well construction forms obtained from Wisconsin (WI) Department of Natural Resources Well Records Database and Well Driller Viewer. WI Unique Well Numbers matched with potable wells based on publicly available information and information provided by homeowners.

ID = Identification

«OWNER1»
«OWNER2»
«MAIL»
«MAILCITY», «MAILST» «MAILZIP»

Arcadis U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202
800-314-1381
www.arcadis.com

Subject:

**Pending Environmental Investigation and
Free Access to Bottled Water Service
Parcel Identification Number: «PIN»**

February 17, 2022

Dear Neighbor:

In cooperation with the Wisconsin Department of Natural Resources (WDNR), Tyco Fire Products LP (Tyco) is conducting an environmental investigation of farm fields in your area that received biosolids from the City of Marinette wastewater treatment system to be used as fertilizer.

You are receiving this letter because your property at «SITE», Parcel Identification #«PIN» is near a field that received biosolids from the Marinette wastewater treatment system. If you have a residential or commercial structure on your property that gets its drinking water from a private well, that property is **eligible for free bottled water service** that will be coordinated and paid for by Tyco.

Background

In March 2020, Tyco voluntarily agreed to conduct a **one-time sampling of certain wells identified in coordination with WDNR in the vicinity of 61 fields identified by WDNR where biosolids were spread** under a WDNR permit from the City of Marinette and the City of Peshtigo wastewater treatment systems. Thirteen percent of the **wells had results above WDHS recommended groundwater standards for PFAS.** While there is no clear correlation between PFAS detections and the application of biosolids to the farm fields and there are clearly many other sources that contributed PFAS to the City of Marinette wastewater system, Tyco is volunteering to provide free bottled water for property owners who live near the fields out of an abundance of caution while the environmental investigation is ongoing.

Please Call to Request Free Bottled Water Service: Please call the Tyco Environmental Assessment Team at (800) 314-1381 to request bottled water service at no cost to you or, just as importantly, to let us know there are no drinking water wells on your property. Have your Parcel Identification Number (listed in the subject line of this letter) ready to expedite the registration process.

If you have any questions or concerns, please call (800) 314-1381.

Sincerely,

Arcadis U.S., Inc.



Matthew Coleman

Project Communications Manager