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>>> Waukesha County Storm Water Workshop
>>> “MS4 Soup”


>>> Tracking Storm Water BMPs Using the
>>> Waukesha County Storm Water Database
>>> 3/16/2011
>>> Alan Barrows

>>> Press any key to continue...

C:\
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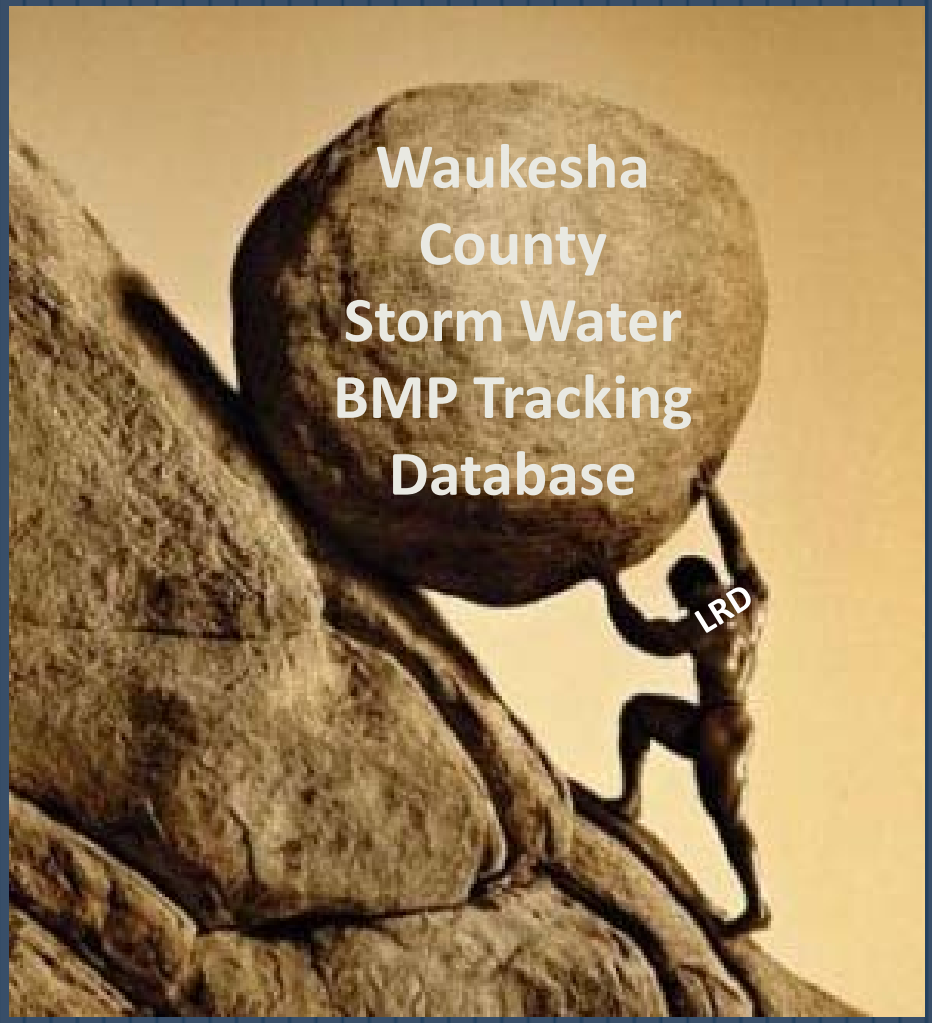
Waukesha
County
Storm Water
BMP Tracking
Database
LRD

Presentation Overview

I. Viewing BMP Data Through GIS

II. Viewing BMP Data Through the Database

III. Entering Data Through the Database

IV. Reports and Output

Types of BMPs Being Tracked

List can be expanded

- Bioretention Area
- Compensatory Flood Storage
- Constructed Wetland
- Dam
- Dry Detention Basin
- Filter Strip
- Grassed Swale
- Green Roof
- Infiltration Basin
- Infiltration Basin with Wet Forebay
- Infiltration Trench/Structure
- In-ground Water Quality Device
- Kettle
- Native Prairie
- Permanent Sediment Trap
- Porous Asphalt
- Rain Garden
- Sand Filter
- Underground Storage/Detention
- Wet Detention Basin
- Wetland

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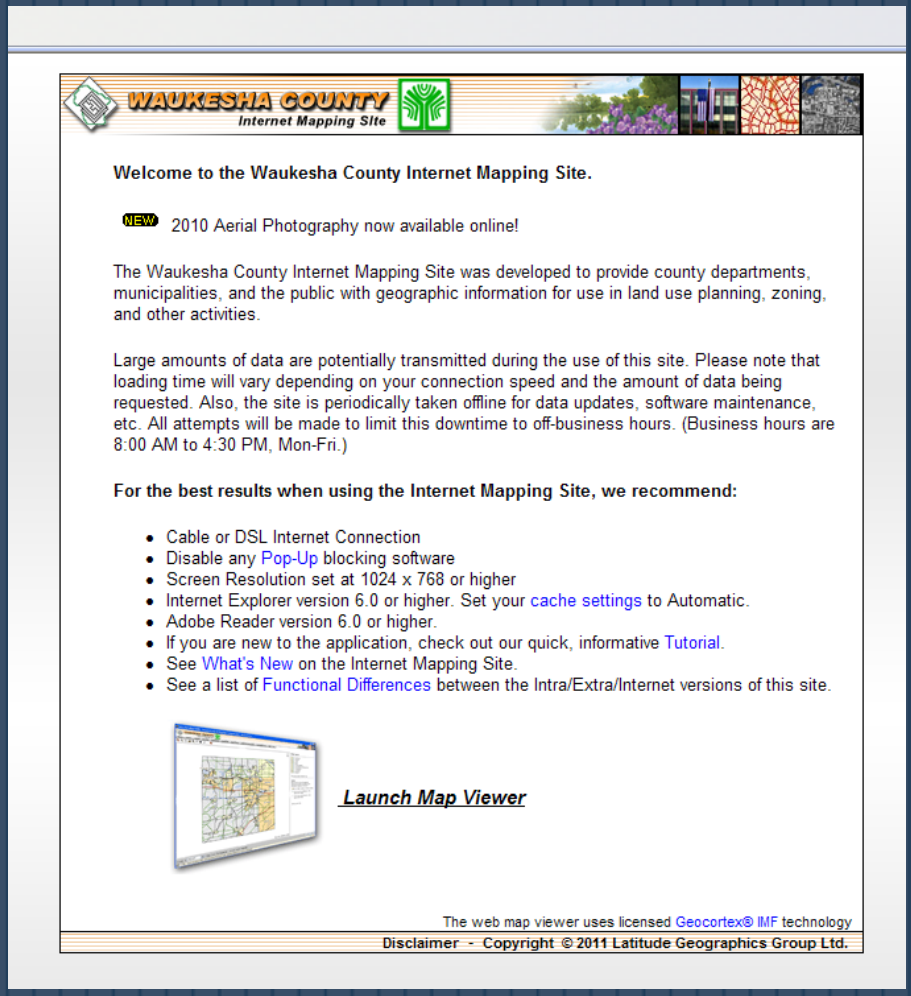
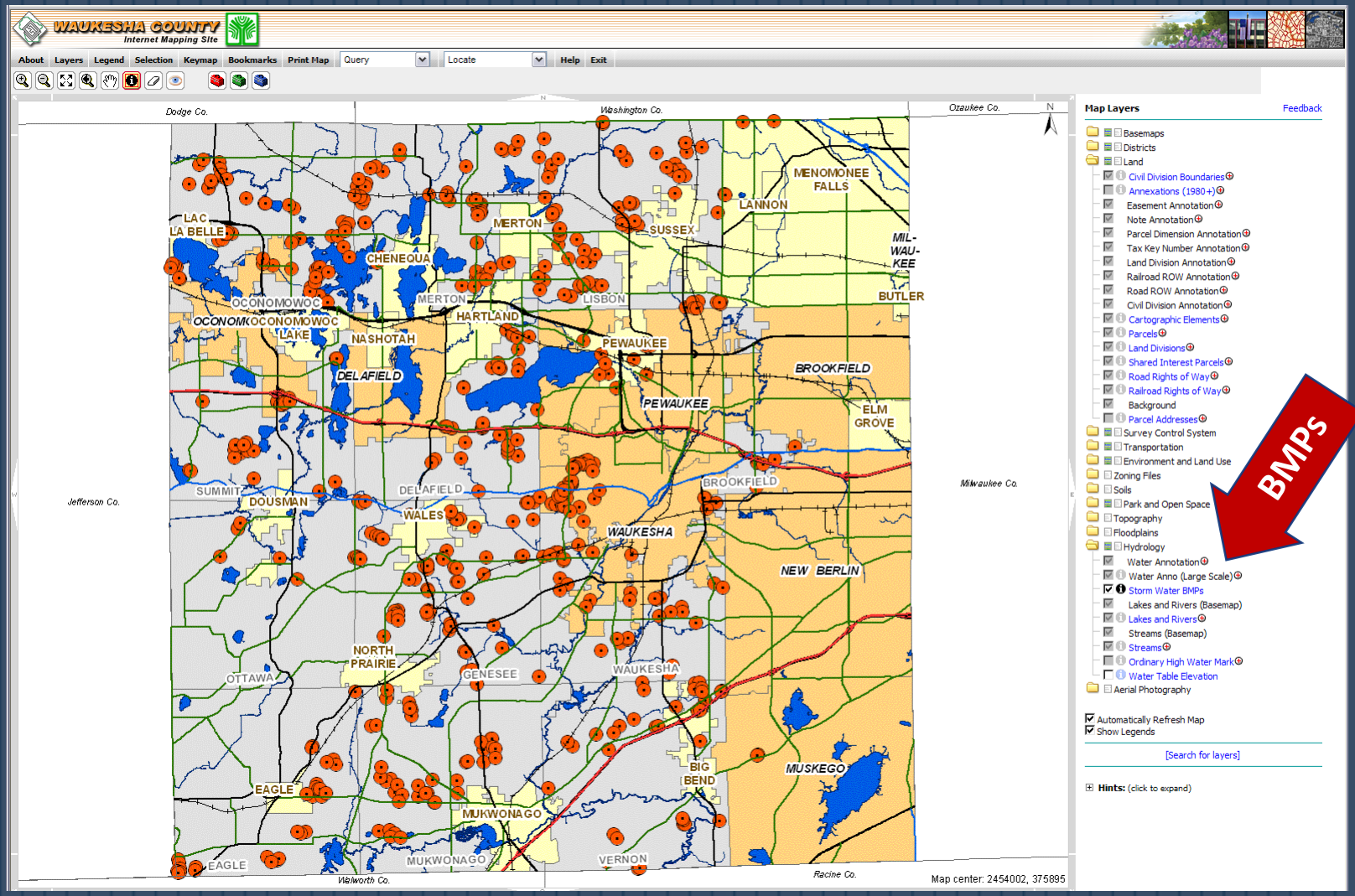
- Underground Storage/Detention
- Wet Detention Basin
- Wetland

Viewing BMP Data Through GIS

Browse to the Waukesha County Land Information System
www.waukeshacounty.gov

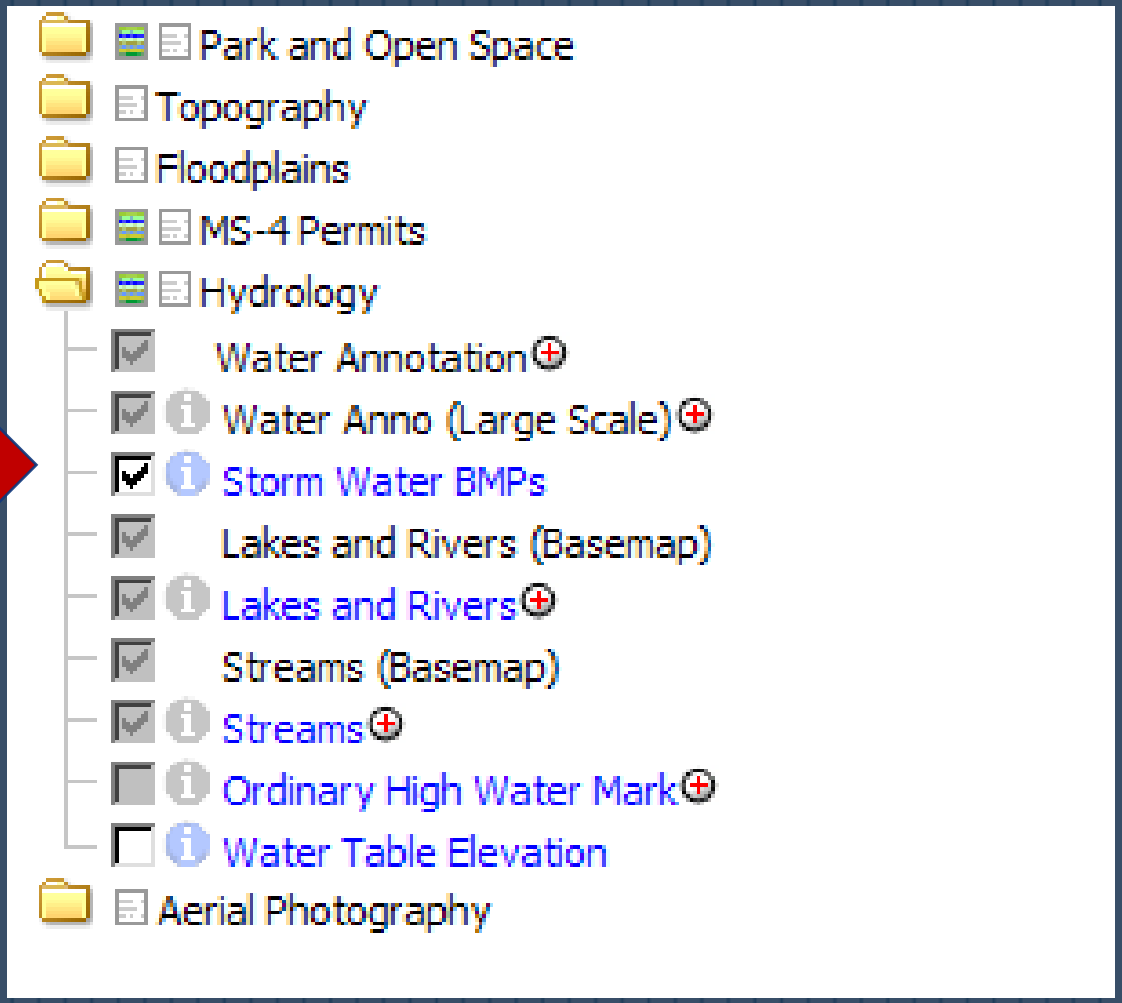


Viewing BMP Data Through GIS



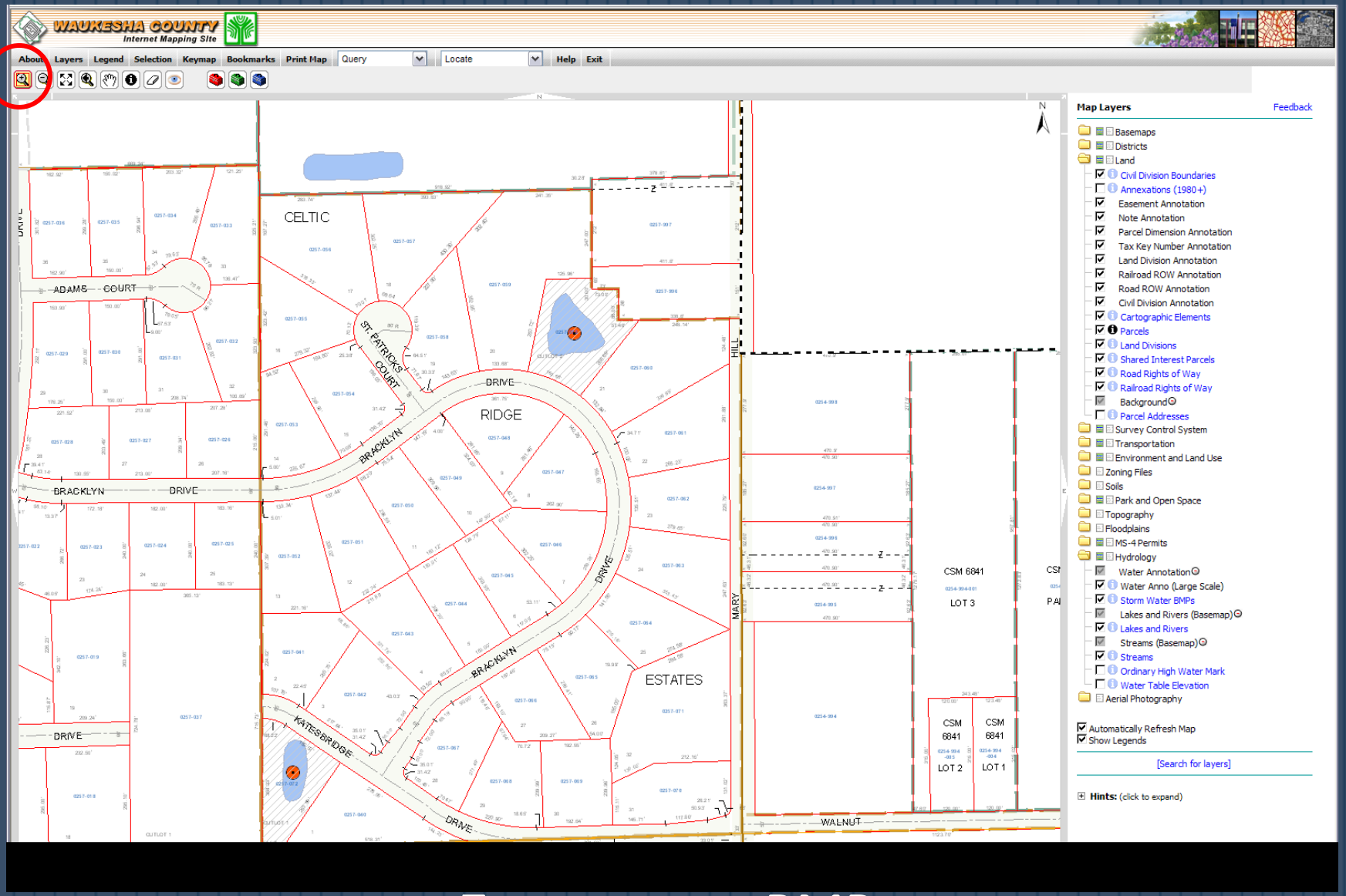
Approximately 550 storm water BMPs inventoried by Waukesha County so far

Viewing BMP Data Through GIS



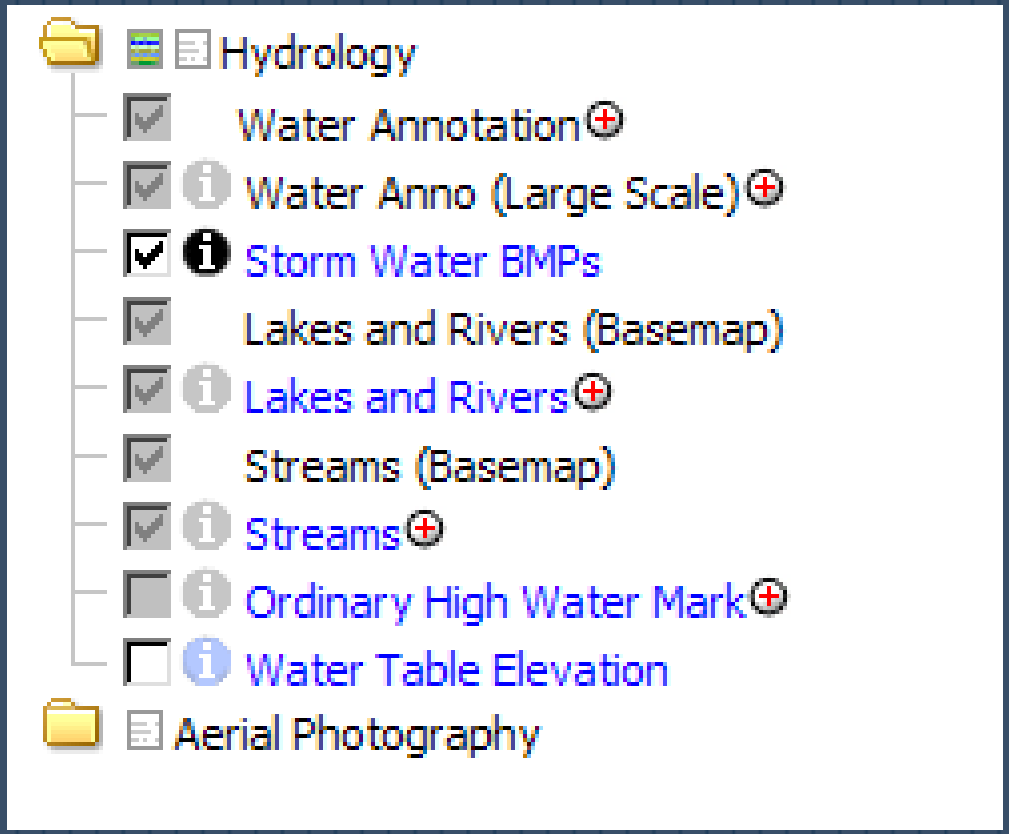
Storm Water BMPs are in the Hydrology layer folder

Viewing BMP Data Through GIS



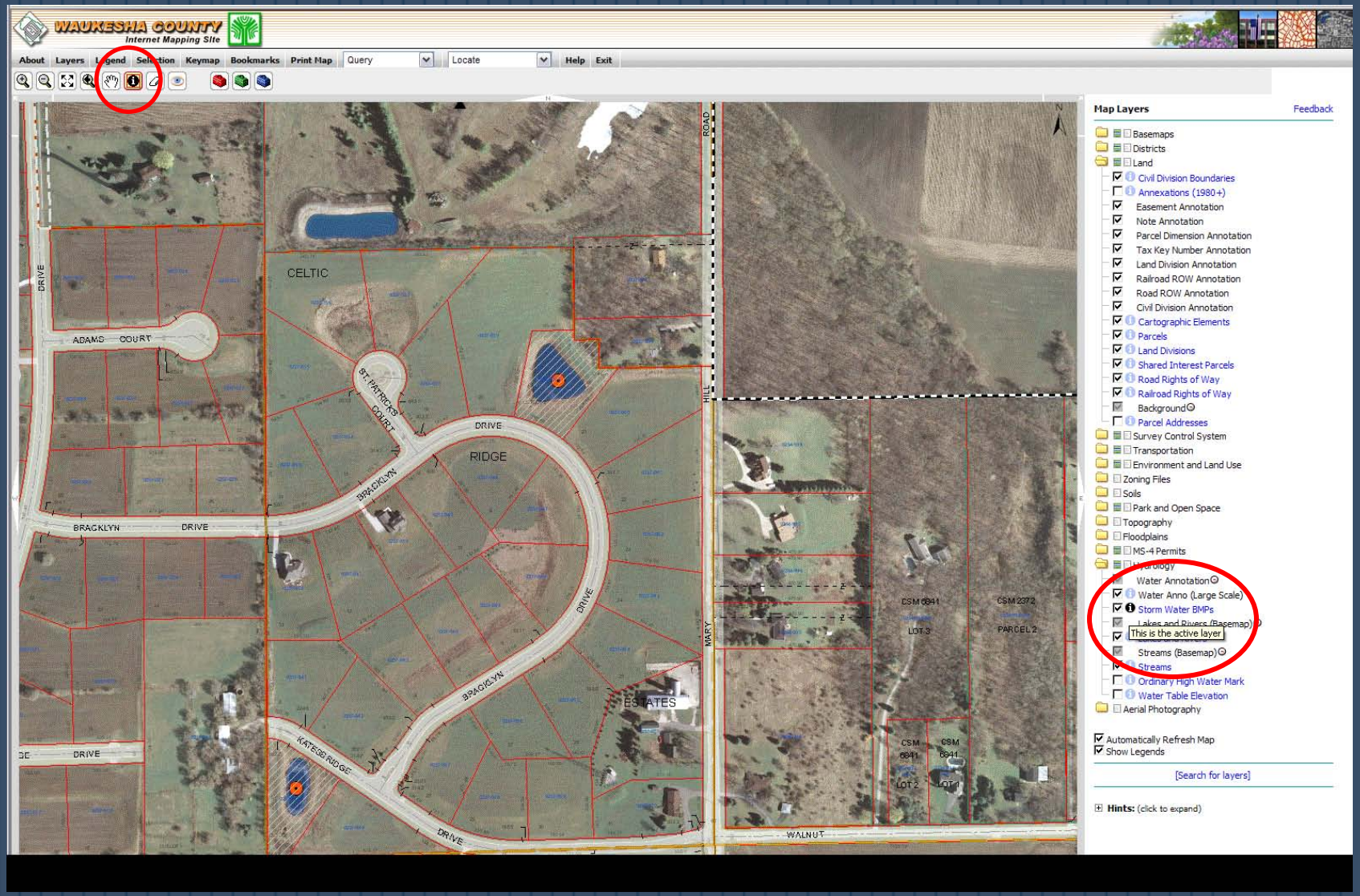
Zoom to any BMP

Viewing BMP Data Through GIS



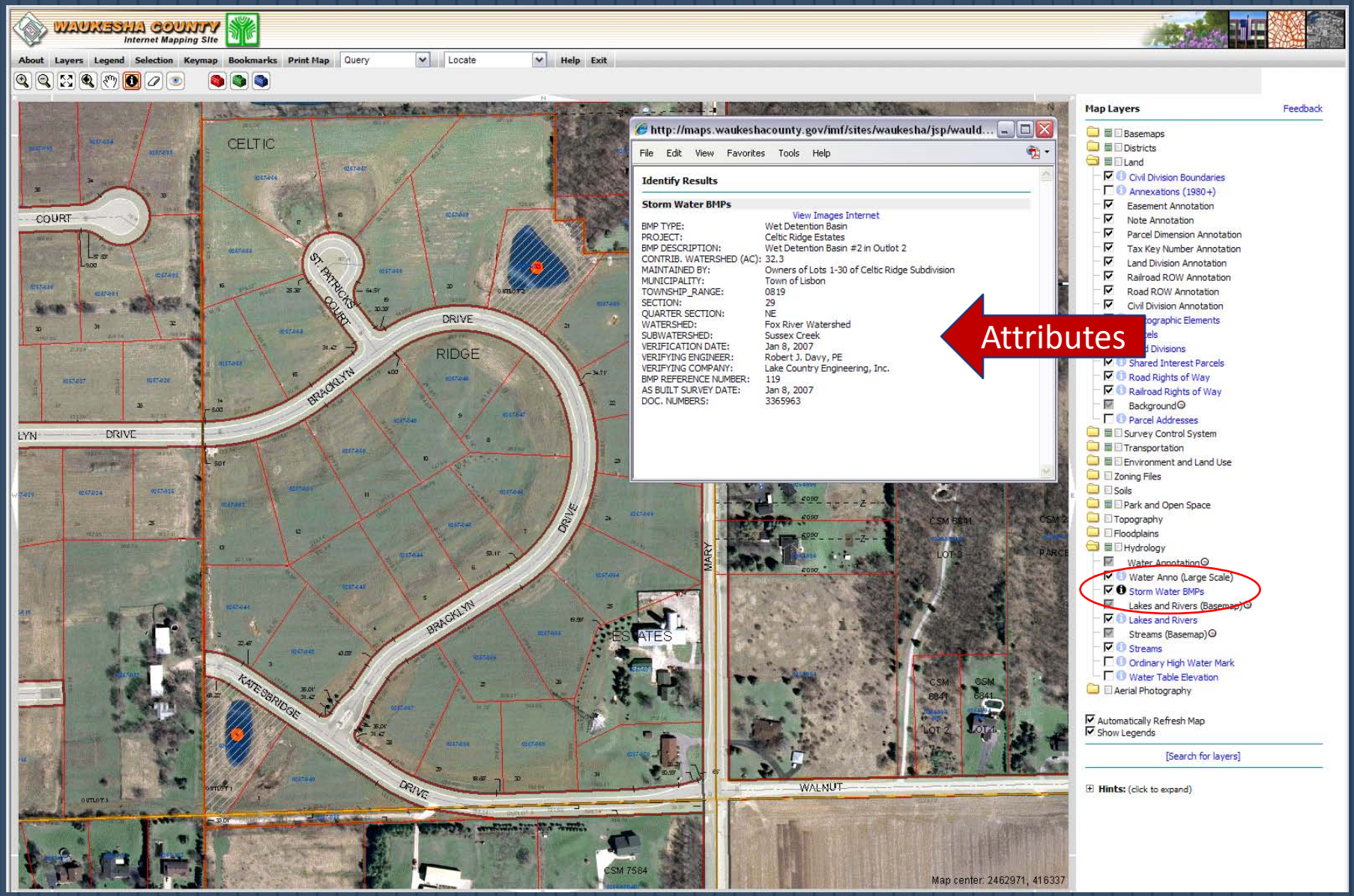
Click on the “i” next to Storm Water BMPs to make it the active layer

Viewing BMP Data Through GIS



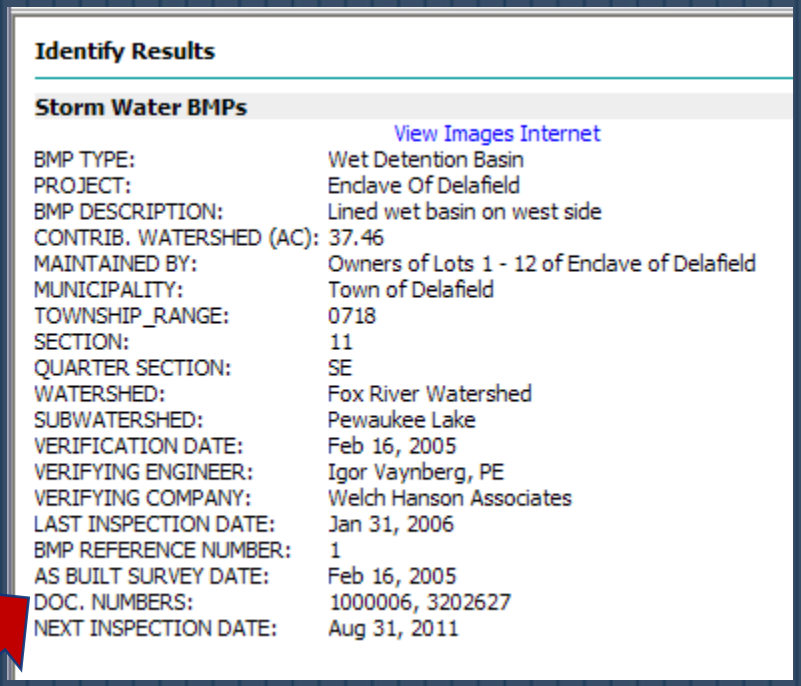
Identify any BMP

Viewing BMP Data Through GIS



Viewing BMP Data Through GIS

BMP Attributes – A closer look



Identify Results

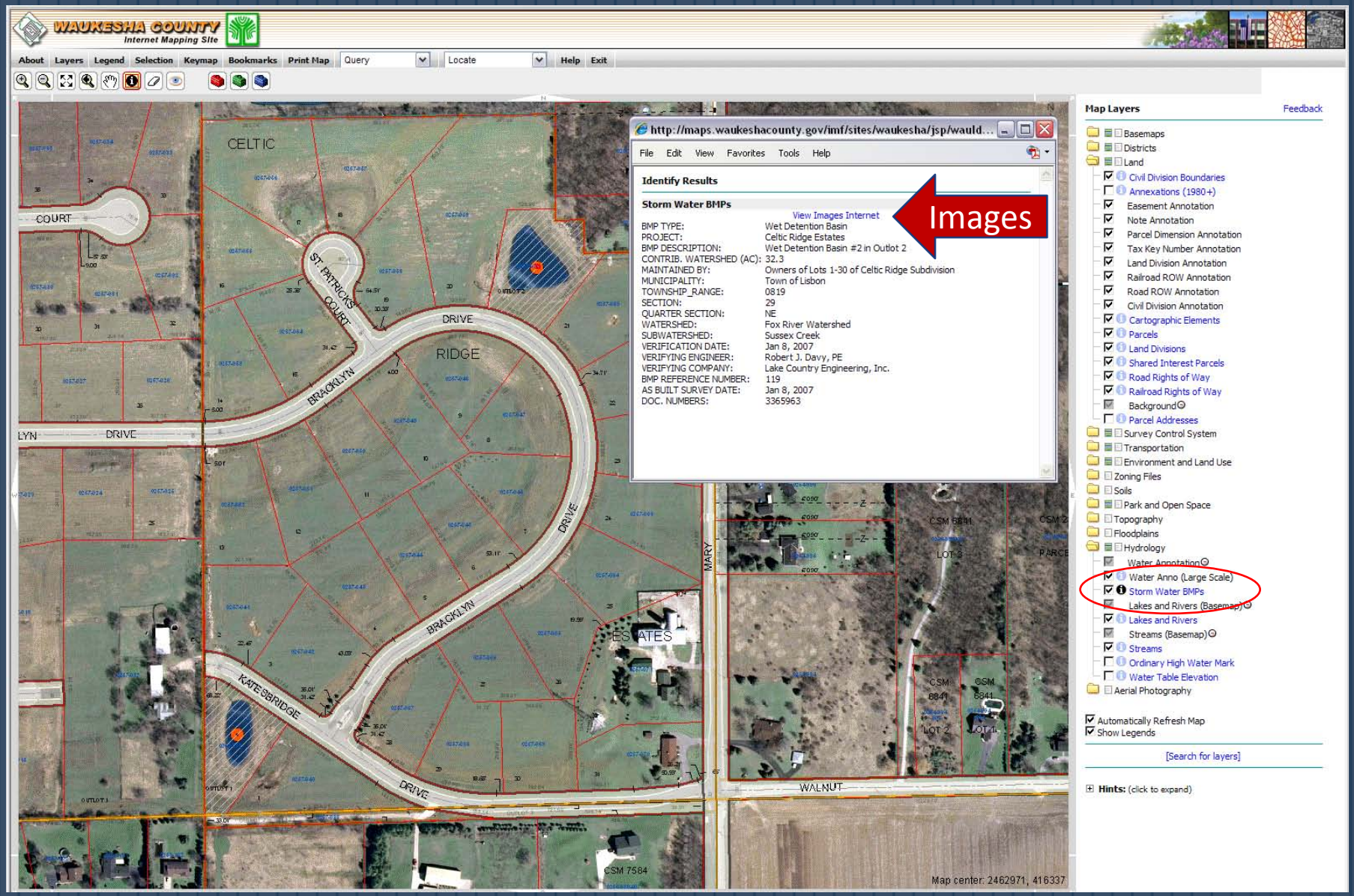
Storm Water BMPs

View Images Internet

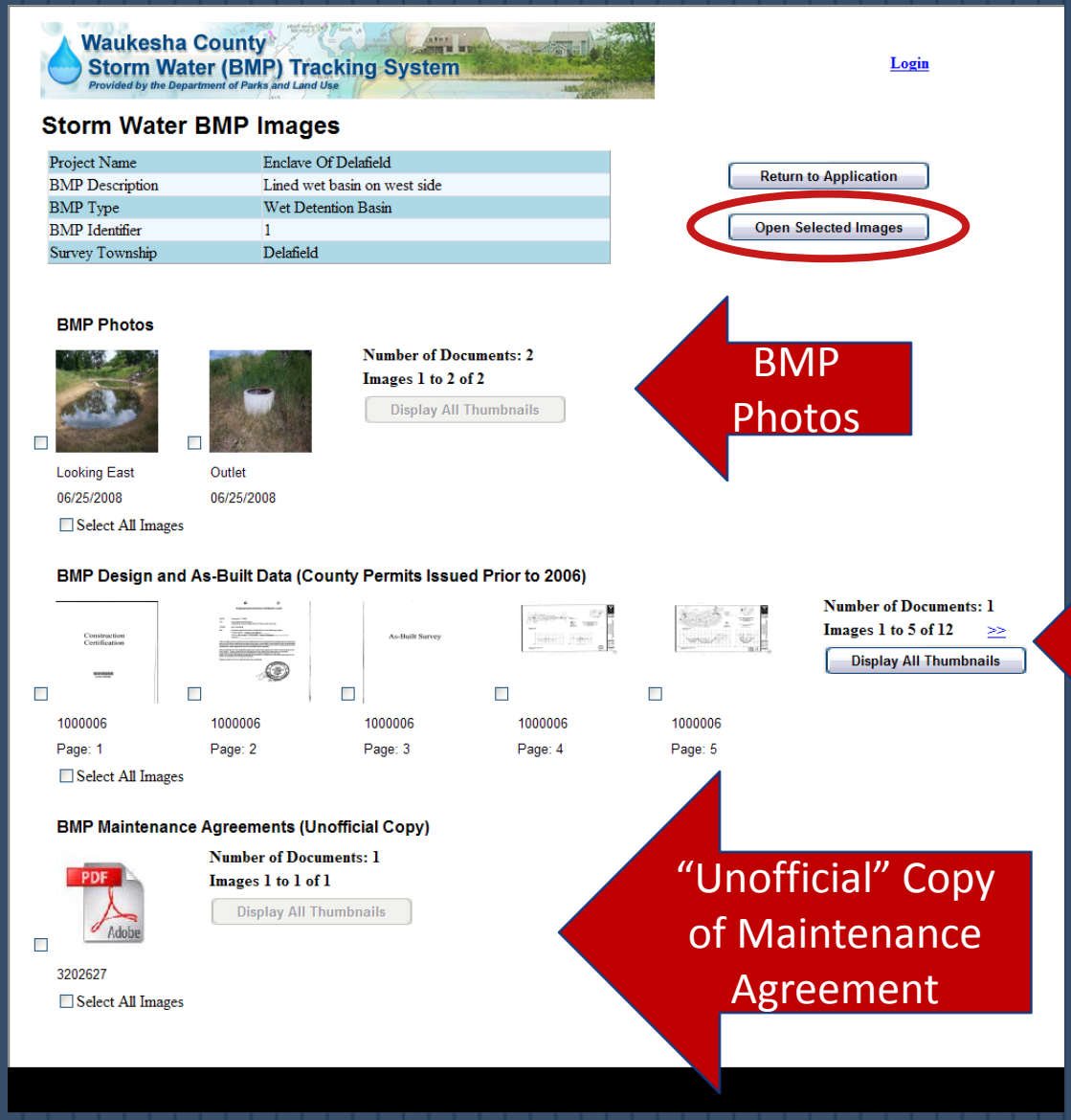
BMP TYPE:	Wet Detention Basin
PROJECT:	Enclave Of Delafield
BMP DESCRIPTION:	Lined wet basin on west side
CONTRIB. WATERSHED (AC):	37.46
MAINTAINED BY:	Owners of Lots 1 - 12 of Enclave of Delafield
MUNICIPALITY:	Town of Delafield
TOWNSHIP_RANGE:	0718
SECTION:	11
QUARTER SECTION:	SE
WATERSHED:	Fox River Watershed
SUBWATERSHED:	Pewaukee Lake
VERIFICATION DATE:	Feb 16, 2005
VERIFYING ENGINEER:	Igor Vaynberg, PE
VERIFYING COMPANY:	Welch Hanson Associates
LAST INSPECTION DATE:	Jan 31, 2006
BMP REFERENCE NUMBER:	1
AS BUILT SURVEY DATE:	Feb 16, 2005
DOC. NUMBERS:	1000006, 3202627
NEXT INSPECTION DATE:	Aug 31, 2011

FYI: Document numbers that start with “3” are recorded maintenance agreements and addenda. Document numbers that start with “1” are non-recorded documents containing basin design and as-built information

Viewing BMP Data Through GIS



Viewing BMP Data Through GIS



Viewing BMP Data Through GIS

Waukesha County
Storm Water (BMP) Tracking System
Provided by the Department of Parks and Land Use

Storm Water BMP Images

Project Name	Celtic Ridge Estates
BMP Description	Wet Detention Basin #2 in Outlot 2
BMP Type	Wet Detention Basin
BMP Identifier	119
Surrey Township	Lisbon

Open | Previous | Next | Return to Thumbnails

Image 1 of 1

This may be a distorted view of the image. For a scaled view of the image click "Open" button.

Looking East
08/10/2006

WAUKESHA COUNTY LEADING THE WAY

Selecting the ‘Open’ button allows for printing, saving and zooming into the image through a separate window

Viewing BMP Data Through the Database

Waukesha County Storm Water Database

Web based, Microsoft SQL Server 2008, .NET interface

"Project" based

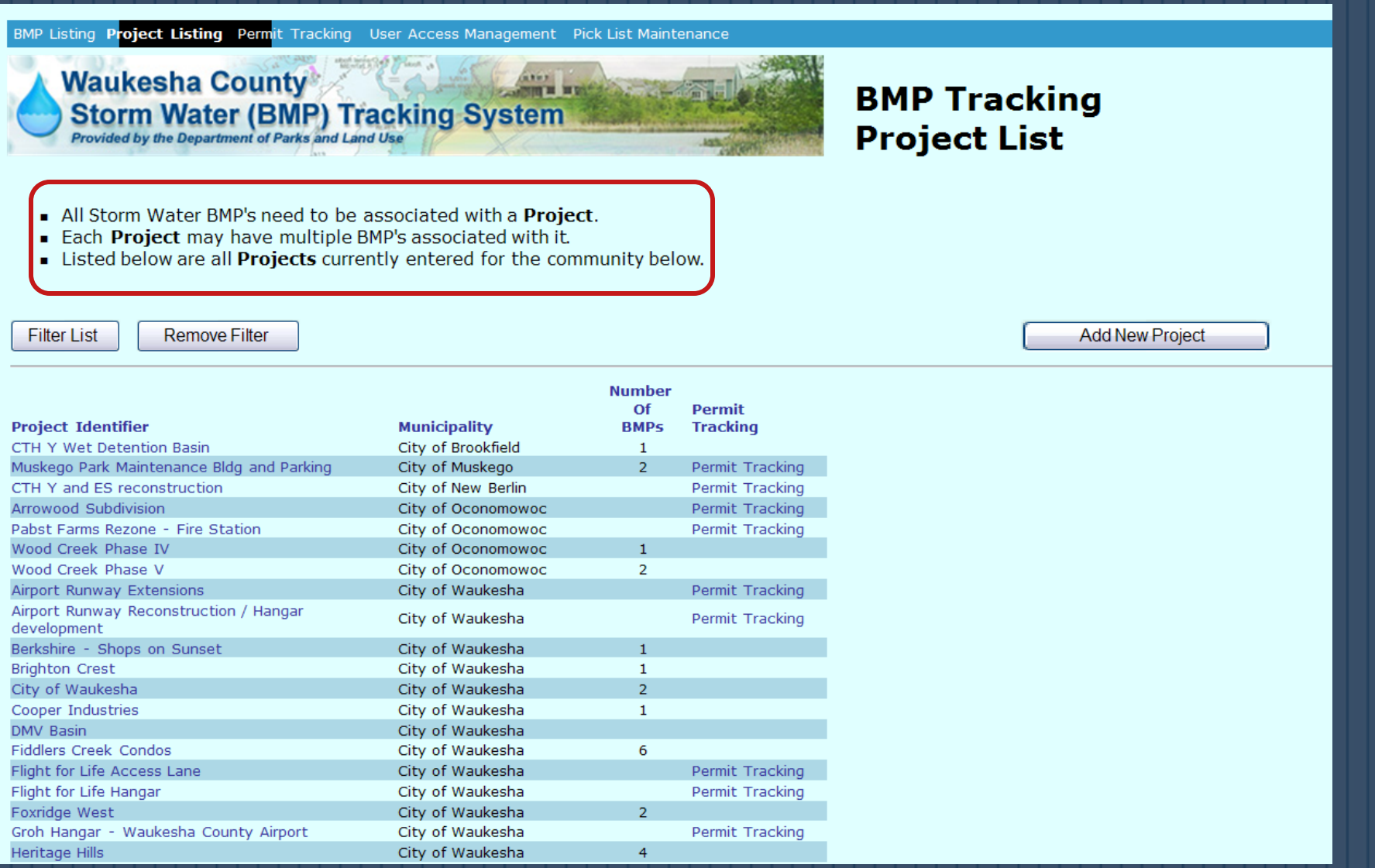
Projects

- Name
- Municipality
- Project Images
- BMPs

BMPs

- BMP Data
- BMP Notes
- BMP Images

Viewing BMP Data Through the Database



BMP Listing | **Project Listing** | Permit Tracking | User Access Management | Pick List Maintenance

Waukesha County
Storm Water (BMP) Tracking System
Provided by the Department of Parks and Land Use

BMP Tracking Project List

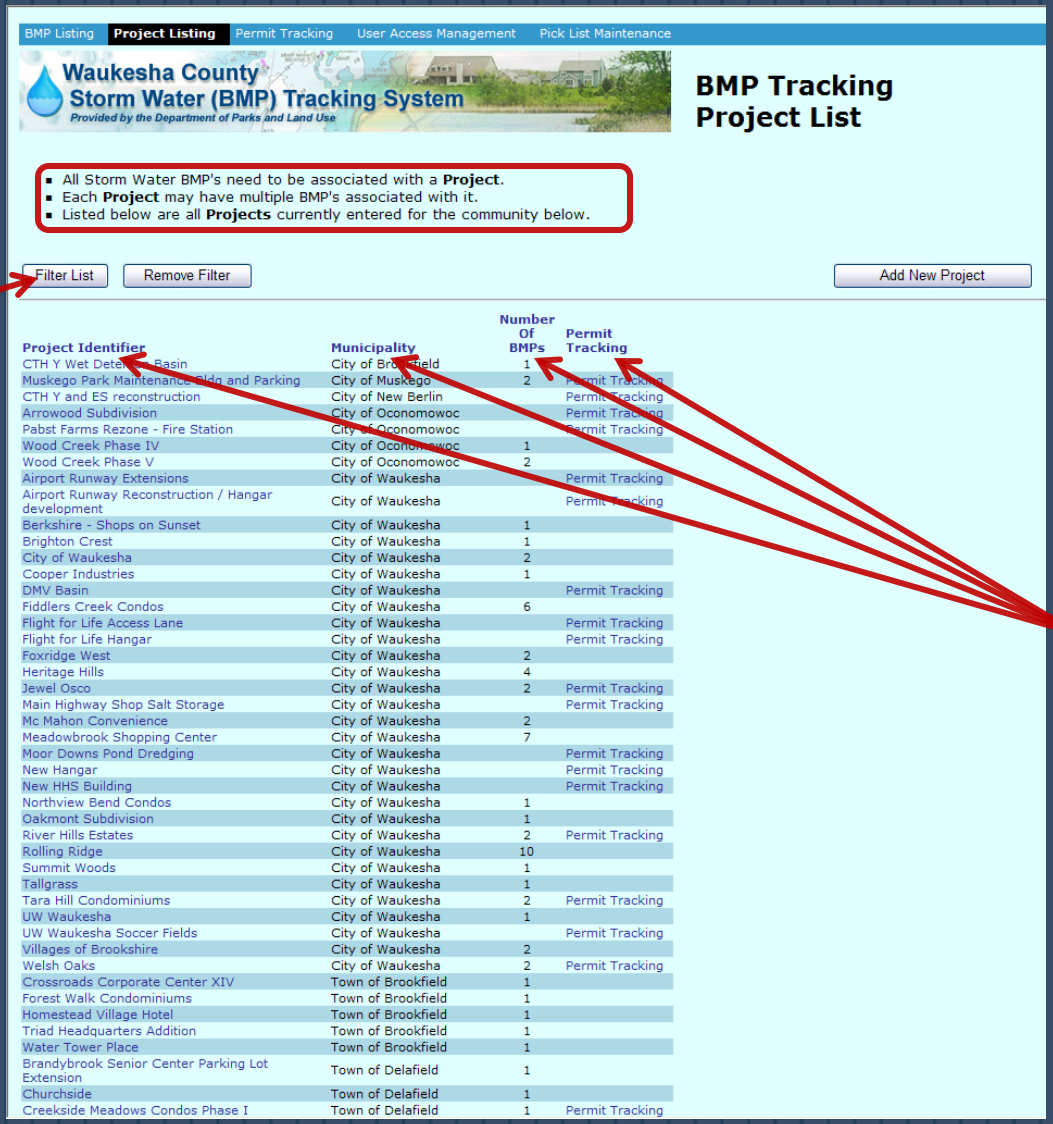
- All Storm Water BMP's need to be associated with a **Project**.
- Each **Project** may have multiple BMP's associated with it.
- Listed below are all **Projects** currently entered for the community below.

Filter List | Remove Filter | Add New Project

Project Identifier	Municipality	Number Of BMPs	Permit Tracking
CTH Y Wet Detention Basin	City of Brookfield	1	
Muskego Park Maintenance Bldg and Parking	City of Muskego	2	Permit Tracking
CTH Y and ES reconstruction	City of New Berlin		Permit Tracking
Arrowood Subdivision	City of Oconomowoc		Permit Tracking
Pabst Farms Rezone - Fire Station	City of Oconomowoc		Permit Tracking
Wood Creek Phase IV	City of Oconomowoc	1	
Wood Creek Phase V	City of Oconomowoc	2	
Airport Runway Extensions	City of Waukesha		Permit Tracking
Airport Runway Reconstruction / Hangar development	City of Waukesha		Permit Tracking
Berkshire - Shops on Sunset	City of Waukesha	1	
Brighton Crest	City of Waukesha	1	
City of Waukesha	City of Waukesha	2	
Cooper Industries	City of Waukesha	1	
DMV Basin	City of Waukesha		
Fiddlers Creek Condos	City of Waukesha	6	
Flight for Life Access Lane	City of Waukesha		Permit Tracking
Flight for Life Hangar	City of Waukesha		Permit Tracking
Foxridge West	City of Waukesha	2	
Groh Hangar - Waukesha County Airport	City of Waukesha		Permit Tracking
Heritage Hills	City of Waukesha	4	

https://stormwater.waukeshacounty.gov/bmps/projectlist.aspx

Viewing BMP Data Through the Database



Project Identifier	Municipality	Number Of BMPs	Permit Tracking
CTH Y Wet Dete[illegible] Basin	City of Bro[illegible]field	1	
Muskego Park Maintenance Bldg and Parking	City of Muskego	2	Permit Tracking
CTH Y and ES reconstruction	City of New Berlin		Permit Tracking
Arrowood Subdivision	City of Oconomowoc		Permit Tracking
Pabst Farms Rezone - Fire Station	City of Oconomowoc		Permit Tracking
Wood Creek Phase IV	City of Oconomowoc	1	
Wood Creek Phase V	City of Oconomowoc	2	
Airport Runway Extensions	City of Waukesha		Permit Tracking
Airport Runway Reconstruction / Hangar development	City of Waukesha		Permit Tracking
Berkshire - Shops on Sunset	City of Waukesha	1	
Brighton Crest	City of Waukesha	1	
City of Waukesha	City of Waukesha	2	
Cooper Industries	City of Waukesha	1	
DMV Basin	City of Waukesha		Permit Tracking
Fiddlers Creek Condos	City of Waukesha	6	
Flight for Life Access Lane	City of Waukesha		Permit Tracking
Flight for Life Hangar	City of Waukesha		Permit Tracking
Foxridge West	City of Waukesha	2	
Heritage Hills	City of Waukesha	4	
Jewel Osco	City of Waukesha	2	Permit Tracking
Main Highway Shop Salt Storage	City of Waukesha		Permit Tracking
Mc Mahon Convenience	City of Waukesha	2	
Meadowbrook Shopping Center	City of Waukesha	7	
Moor Downs Pond Dredging	City of Waukesha		Permit Tracking
New Hangar	City of Waukesha		Permit Tracking
New HHS Building	City of Waukesha		Permit Tracking
Northview Bend Condos	City of Waukesha	1	
Oakmont Subdivision	City of Waukesha	1	
River Hills Estates	City of Waukesha	2	Permit Tracking
Rolling Ridge	City of Waukesha	10	
Summit Woods	City of Waukesha	1	
Tallgrass	City of Waukesha	1	
Tara Hill Condominiums	City of Waukesha	2	Permit Tracking
UW Waukesha	City of Waukesha	1	
UW Waukesha Soccer Fields	City of Waukesha		Permit Tracking
Villages of Brookshire	City of Waukesha	2	
Welsh Oaks	City of Waukesha	2	Permit Tracking
Crossroads Corporate Center XIV	Town of Brookfield	1	
Forest Walk Condominiums	Town of Brookfield	1	
Homestead Village Hotel	Town of Brookfield	1	
Triad Headquarters Addition	Town of Brookfield	1	
Water Tower Place	Town of Brookfield	1	
Brandybrook Senior Center Parking Lot Extension	Town of Delafield	1	
Churchside	Town of Delafield	1	
Creekside Meadows Condos Phase I	Town of Delafield	1	Permit Tracking

Filter by Municipality

Sort by any of the column headings

https://stormwater.waukeshacounty.gov/bmps/projectlist.aspx

Viewing BMP Data Through the Database

BMP Project List Column Headings – A Closer Look

Filter List | Remove Filter

Project Identifier	Municipality	Number Of BMPs	Permit Tracking
CTH Y Wet Detention Basin	City of Brookfield	1	
Muskego Park Maintenance Bldg and Parking	City of Muskego	2	Permit Tracking
CTH Y and ES reconstruction	City of New Berlin		Permit Tracking
Arrowood Subdivision	City of Oconomowoc		Permit Tracking
Pabst Farms Rezone - Fire Station	City of Oconomowoc		Permit Tracking
Wood Creek Phase IV	City of Oconomowoc	1	

Viewing BMP Data Through the Database

BMP Listing | Project Listing | Permit Tracking | User Access Management | Pick List Maintenance

Waukesha County Storm Water (BMP) Tracking System
Provided by the Department of Parks and Land Use

BMP List

- All Storm Water BMP's need to be associated with a **Project**.
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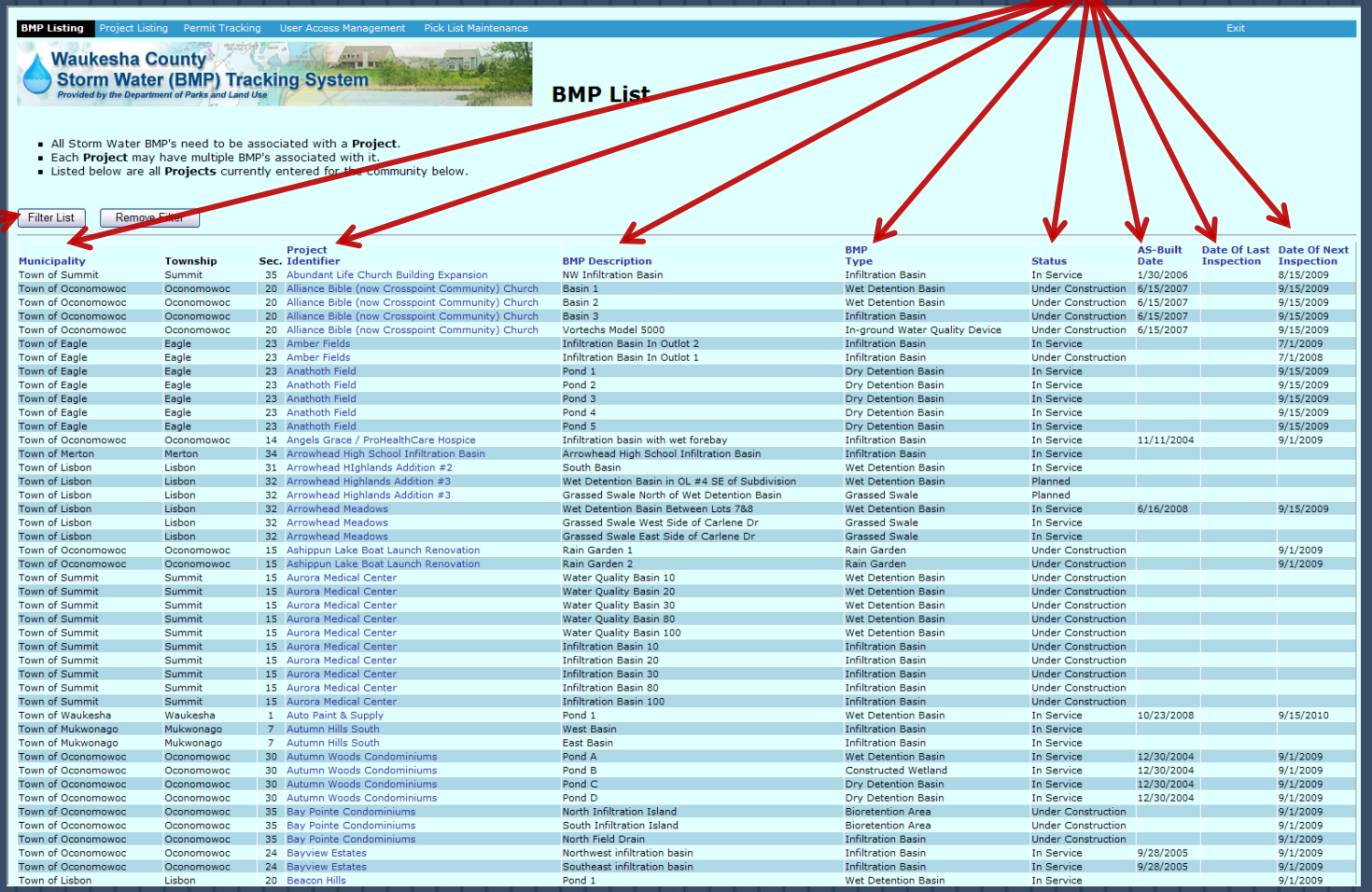
Filter List | Remove Filter

Municipality	Township	Sec.	Project Identifier	BMP Description	BMP Type
Town of Summit	Summit	35	Abundant Life Church Building Expansion	NW Infiltration Basin	Infiltration Basin
Town of Oconomowoc	Oconomowoc	20	Alliance Bible (now Crosspoint Community) Church	Basin 1	Wet Detention Basin
Town of Oconomowoc	Oconomowoc	20	Alliance Bible (now Crosspoint Community) Church	Basin 2	Wet Detention Basin
Town of Oconomowoc	Oconomowoc	20	Alliance Bible (now Crosspoint Community) Church	Basin 3	Infiltration Basin
Town of Oconomowoc	Oconomowoc	20	Alliance Bible (now Crosspoint Community) Church	Vortechs Model 5000	In-ground Water Quality Device
Town of Eagle	Eagle	23	Amber Fields	Infiltration Basin In Outlot 2	Infiltration Basin
Town of Eagle	Eagle	23	Amber Fields	Infiltration Basin In Outlot 1	Infiltration Basin
Town of Eagle	Eagle	23	Anathoth Field	Pond 1	Dry Detention Basin
Town of Eagle	Eagle	23	Anathoth Field	Pond 2	Dry Detention Basin
Town of Eagle	Eagle	23	Anathoth Field	Pond 3	Dry Detention Basin
Town of Eagle	Eagle	23	Anathoth Field	Pond 4	Dry Detention Basin
Town of Eagle	Eagle	23	Anathoth Field	Pond 5	Dry Detention Basin
Town of Oconomowoc	Oconomowoc	14	Angels Grace / ProHealthCare Hospice	Infiltration basin with wet forebay	Infiltration Basin
Town of Merton	Merton	34	Arrowhead High School Infiltration Basin	Arrowhead High School Infiltration Basin	Infiltration Basin
Town of Lisbon	Lisbon	31	Arrowhead HIghlands Addition #2	South Basin	Wet Detention Basin
Town of Lisbon	Lisbon	32	Arrowhead Highlands Addition #3	Wet Detention Basin in OL #4 SE of Subdivision	Wet Detention Basin
Town of Lisbon	Lisbon	32	Arrowhead Highlands Addition #3	Grassed Swale North of Wet Detention Basin	Grassed Swale
Town of Lisbon	Lisbon	32	Arrowhead Meadows	Wet Detention Basin Between Lots 7&8	Wet Detention Basin
Town of Lisbon	Lisbon	32	Arrowhead Meadows	Grassed Swale West Side of Carlene Dr	Grassed Swale
Town of Lisbon	Lisbon	32	Arrowhead Meadows	Grassed Swale East Side of Carlene Dr	Grassed Swale
Town of Merton	Merton	34	Arrowhead Stadium Seating and Press Box	Infiltration trench	Infiltration Trench/Structure
Town of Oconomowoc	Oconomowoc	15	Ashippun Lake Boat Launch Renovation	Rain Garden 1	Rain Garden
Town of Oconomowoc	Oconomowoc	15	Ashippun Lake Boat Launch Renovation	Rain Garden 2	Rain Garden
Town of Summit	Summit	15	Aurora Medical Center	Water Quality Basin 10	Wet Detention Basin
Town of Summit	Summit	15	Aurora Medical Center	Water Quality Basin 20	Wet Detention Basin
Town of Summit	Summit	15	Aurora Medical Center	Water Quality Basin 30	Wet Detention Basin
Town of Summit	Summit	15	Aurora Medical Center	Water Quality Basin 80	Wet Detention Basin
Town of Summit	Summit	15	Aurora Medical Center	Water Quality Basin 100	Wet Detention Basin
Town of Summit	Summit	15	Aurora Medical Center	Infiltration Basin 10	Infiltration Basin
Town of Summit	Summit	15	Aurora Medical Center	Infiltration Basin 20	Infiltration Basin

Viewing BMP Data Through the Database

Sort by any of the blue column headings

Filter by:
- Project Name
- As-Built Date
- BMP Type
- Municipality
- Township
- Status
- Watershed
- Subwatershed
- Hydrologic Unit
- Last Inspection
- Next Inspection



BMP Listing | Project Listing | Permit Tracking | User Access Management | Pick List Maintenance | Exit

Waukesha County Storm Water (BMP) Tracking System
Provided by the Department of Parks and Land Use

BMP List

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Filter List | Remove Filter

Municipality	Township	Sec.	Project Identifier	BMP Description	BMP Type	Status	AS-Built Date	Date Of Last Inspection	Date Of Next Inspection
Town of Summit	Summit	35	Abundant Life Church Building Expansion	NW Infiltration Basin	Infiltration Basin	In Service	1/30/2006		8/15/2009
Town of Oconomowoc	Oconomowoc	20	Alliance Bible (now Crosspoint Community) Church	Basin 1	Wet Detention Basin	Under Construction	6/15/2007		9/15/2009
Town of Oconomowoc	Oconomowoc	20	Alliance Bible (now Crosspoint Community) Church	Basin 2	Wet Detention Basin	Under Construction	6/15/2007		9/15/2009
Town of Oconomowoc	Oconomowoc	20	Alliance Bible (now Crosspoint Community) Church	Basin 3	Infiltration Basin	Under Construction	6/15/2007		9/15/2009
Town of Oconomowoc	Oconomowoc	20	Alliance Bible (now Crosspoint Community) Church	Vortechs Model 5000	In-ground Water Quality Device	Under Construction	6/15/2007		9/15/2009
Town of Eagle	Eagle	23	Amber Fields	Infiltration Basin In Outlot 2	Infiltration Basin	In Service			7/1/2009
Town of Eagle	Eagle	23	Amber Fields	Infiltration Basin In Outlot 1	Infiltration Basin	Under Construction			7/1/2008
Town of Eagle	Eagle	23	Anathoth Field	Pond 1	Dry Detention Basin	In Service			9/15/2009
Town of Eagle	Eagle	23	Anathoth Field	Pond 2	Dry Detention Basin	In Service			9/15/2009
Town of Eagle	Eagle	23	Anathoth Field	Pond 3	Dry Detention Basin	In Service			9/15/2009
Town of Eagle	Eagle	23	Anathoth Field	Pond 4	Dry Detention Basin	In Service			9/15/2009
Town of Eagle	Eagle	23	Anathoth Field	Pond 5	Dry Detention Basin	In Service			9/15/2009
Town of Oconomowoc	Oconomowoc	14	Angels Grace / ProHealthCare Hospice	Infiltration basin with wet forebay	Infiltration Basin	In Service	11/11/2004		9/1/2009
Town of Merton	Merton	34	Arrowhead High School Infiltration Basin	Arrowhead High School Infiltration Basin	Infiltration Basin	In Service			
Town of Lisbon	Lisbon	31	Arrowhead HIghlands Addition #2	South Basin	Wet Detention Basin	In Service			
Town of Lisbon	Lisbon	32	Arrowhead Highlands Addition #3	Wet Detention Basin in OL #4 SE of Subdivision	Wet Detention Basin	Planned			
Town of Lisbon	Lisbon	32	Arrowhead Highlands Addition #3	Grassed Swale North of Wet Detention Basin	Grassed Swale	Planned			
Town of Lisbon	Lisbon	32	Arrowhead Meadows	Wet Detention Basin Between Lots 7&8	Wet Detention Basin	In Service	6/16/2008		9/15/2009
Town of Lisbon	Lisbon	32	Arrowhead Meadows	Grassed Swale West Side of Carlene Dr	Grassed Swale	In Service			
Town of Lisbon	Lisbon	32	Arrowhead Meadows	Grassed Swale East Side of Carlene Dr	Grassed Swale	In Service			
Town of Oconomowoc	Oconomowoc	15	Ashippun Lake Boat Launch Renovation	Rain Garden 1	Rain Garden	Under Construction			9/1/2009
Town of Oconomowoc	Oconomowoc	15	Ashippun Lake Boat Launch Renovation	Rain Garden 2	Rain Garden	Under Construction			9/1/2009
Town of Summit	Summit	15	Aurora Medical Center	Water Quality Basin 10	Wet Detention Basin	Under Construction			
Town of Summit	Summit	15	Aurora Medical Center	Water Quality Basin 20	Wet Detention Basin	Under Construction			
Town of Summit	Summit	15	Aurora Medical Center	Water Quality Basin 30	Wet Detention Basin	Under Construction			
Town of Summit	Summit	15	Aurora Medical Center	Water Quality Basin 80	Wet Detention Basin	Under Construction			
Town of Summit	Summit	15	Aurora Medical Center	Water Quality Basin 100	Wet Detention Basin	Under Construction			
Town of Summit	Summit	15	Aurora Medical Center	Infiltration Basin 10	Infiltration Basin	Under Construction			
Town of Summit	Summit	15	Aurora Medical Center	Infiltration Basin 20	Infiltration Basin	Under Construction			
Town of Summit	Summit	15	Aurora Medical Center	Infiltration Basin 30	Infiltration Basin	Under Construction			
Town of Summit	Summit	15	Aurora Medical Center	Infiltration Basin 80	Infiltration Basin	Under Construction			
Town of Summit	Summit	15	Aurora Medical Center	Infiltration Basin 100	Infiltration Basin	Under Construction			
Town of Waukesha	Waukesha	1	Auto Paint & Supply	Pond 1	Wet Detention Basin	In Service	10/23/2008		9/15/2010
Town of Mukwonago	Mukwonago	7	Autumn Hills South	West Basin	Infiltration Basin	In Service			
Town of Mukwonago	Mukwonago	7	Autumn Hills South	East Basin	Infiltration Basin	In Service			
Town of Oconomowoc	Oconomowoc	30	Autumn Woods Condominiums	Pond A	Wet Detention Basin	In Service	12/30/2004		9/1/2009
Town of Oconomowoc	Oconomowoc	30	Autumn Woods Condominiums	Pond B	Constructed Wetland	In Service	12/30/2004		9/1/2009
Town of Oconomowoc	Oconomowoc	30	Autumn Woods Condominiums	Pond C	Dry Detention Basin	In Service	12/30/2004		9/1/2009
Town of Oconomowoc	Oconomowoc	30	Autumn Woods Condominiums	Pond D	Dry Detention Basin	In Service	12/30/2004		9/1/2009
Town of Oconomowoc	Oconomowoc	35	Bay Pointe Condominiums	North Infiltration Island	Bioretention Area	Under Construction			9/1/2009
Town of Oconomowoc	Oconomowoc	35	Bay Pointe Condominiums	South Infiltration Island	Bioretention Area	Under Construction			9/1/2009
Town of Oconomowoc	Oconomowoc	35	Bay Pointe Condominiums	North Field Drain	Infiltration Basin	Under Construction			9/1/2009
Town of Oconomowoc	Oconomowoc	24	Bayview Estates	Northwest infiltration basin	Infiltration Basin	In Service	9/28/2005		9/1/2009
Town of Oconomowoc	Oconomowoc	24	Bayview Estates	Southeast infiltration basin	Infiltration Basin	In Service	9/28/2005		9/1/2009
Town of Lisbon	Lisbon	20	Beacon Hills	Pond 1	Wet Detention Basin	In Service			9/1/2009

Viewing BMP Data Through the Database

BMP List Column Headings – A Closer Look

Filter List | Remove Filter

Municipality	Township	Sec.	Project Identifier	BMP Description	BMP Type	Status	AS-Built Date	Date Of Last Inspection	Date Of Next Inspection
Town of Summit	Summit	35	Abundant Life Church Building Expansion	NW Infiltration Basin	Infiltration Basin	In Service	1/30/2006		8/15/2009
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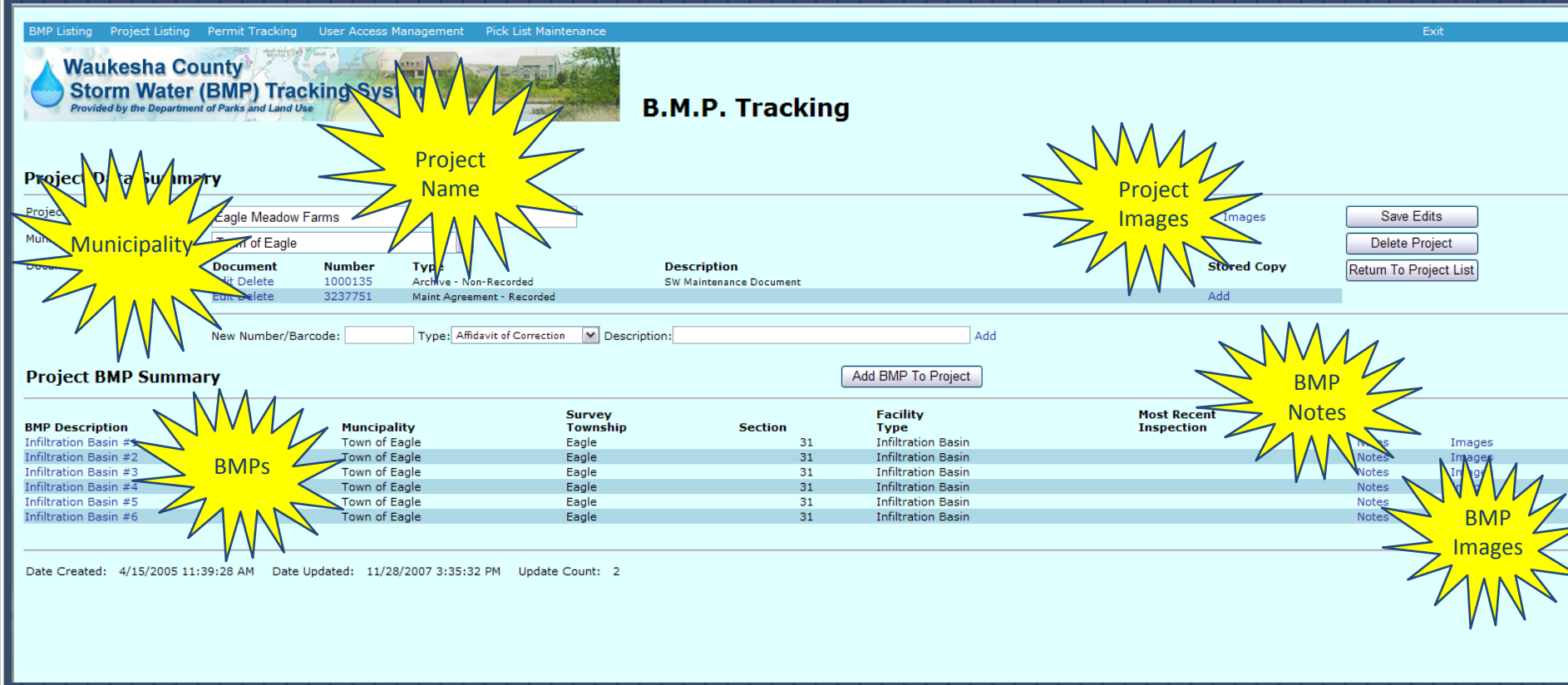
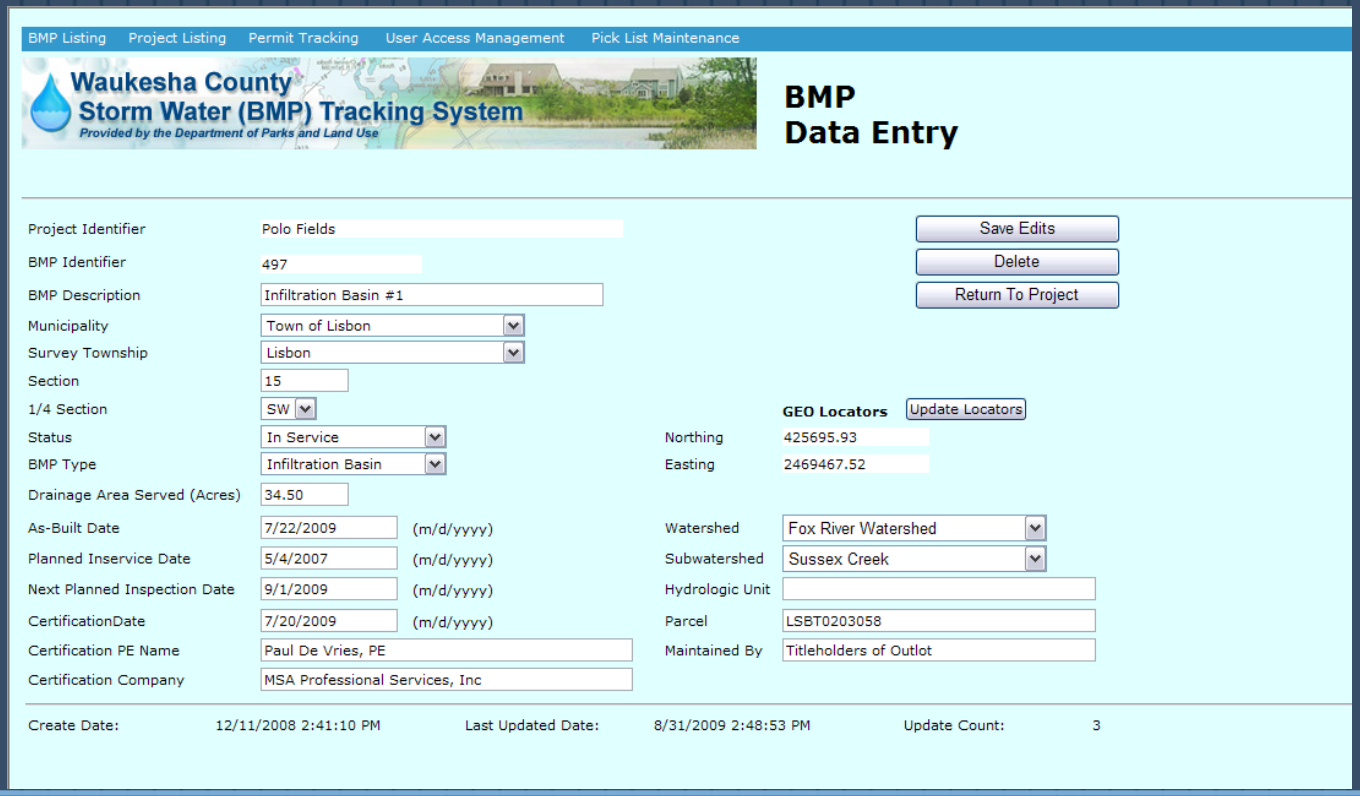
Town of Oconomowoc	Oconomowoc	20	Alliance Bible (now Crosspoint Community) Church	Basin 2	Wet Detention Basin	Under Construction	6/15/2007		9/15/2009
Town of Oconomowoc	Oconomowoc	20	Alliance Bible (now Crosspoint Community) Church	Basin 3	Infiltration Basin	Under Construction	6/15/2007		9/15/2009
Town of Oconomowoc	Oconomowoc	20	Alliance Bible (now Crosspoint Community) Church	Vortechs Model 5000	In-ground Water Quality Device	Under Construction	6/15/2007		9/15/2009

Viewing Project Data Through the Database

A Completed Project Page with BMPs



Viewing BMP Data Through the Database



BMP Description

Location
- Municipality
- Township / Range
- Section
- ¼ Section
- X:Y Coordinate

Status

BMP Type

Drainage Area (Acres)

As-Built Date

Planned In-service Date

Certification Date

Certifying Engineer & Company

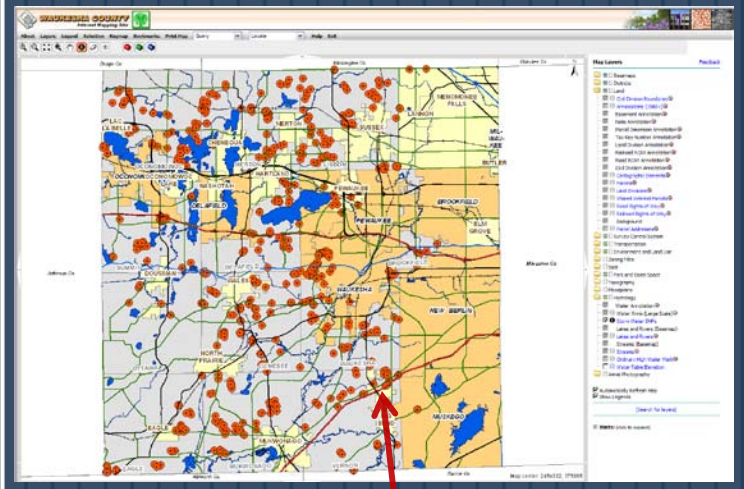
Next Planned Inspection Date

Watershed/Subwatershed

Parcel

Who Maintains the BMP

Internet Mapping System (IMS)



Storm Water BMP Information

Display of BMPs and BMP data is done through the X:Y coordinates in the State Plane Coordinate System, NAD 27

BMP Listing | Project Listing | Permit Tracking | User Access Management | Pick List Maintenance

Waukesha County Storm Water (BMP) Tracking System
Provided by the Department of Parks and Land Use

BMP Data Entry

Save Edits | Delete | Return To Project

Project Identifier	Polo Fields				
BMP Identifier	497				
BMP Description	Infiltration Basin #1				
Municipality	Town of Lisbon				
Survey Township	Lisbon				
Section	15				
1/4 Section	SW				
Status	In Service				
BMP Type	Infiltration Basin				
Drainage Area Served (Acres)	34.50				
As-Built Date	7/22/2009	(m/d/yyyy)			
Planned Inservice Date	5/4/2007	(m/d/yyyy)			
Next Planned Inspection Date	9/1/2009	(m/d/yyyy)			
CertificationDate	7/20/2009	(m/d/yyyy)			
Certification PE Name	Paul De Vries, PE				
Certification Company	MSA Professional Services, Inc				

GEO Locators Update Locators

Northing	425695.93
Easting	2469467.52

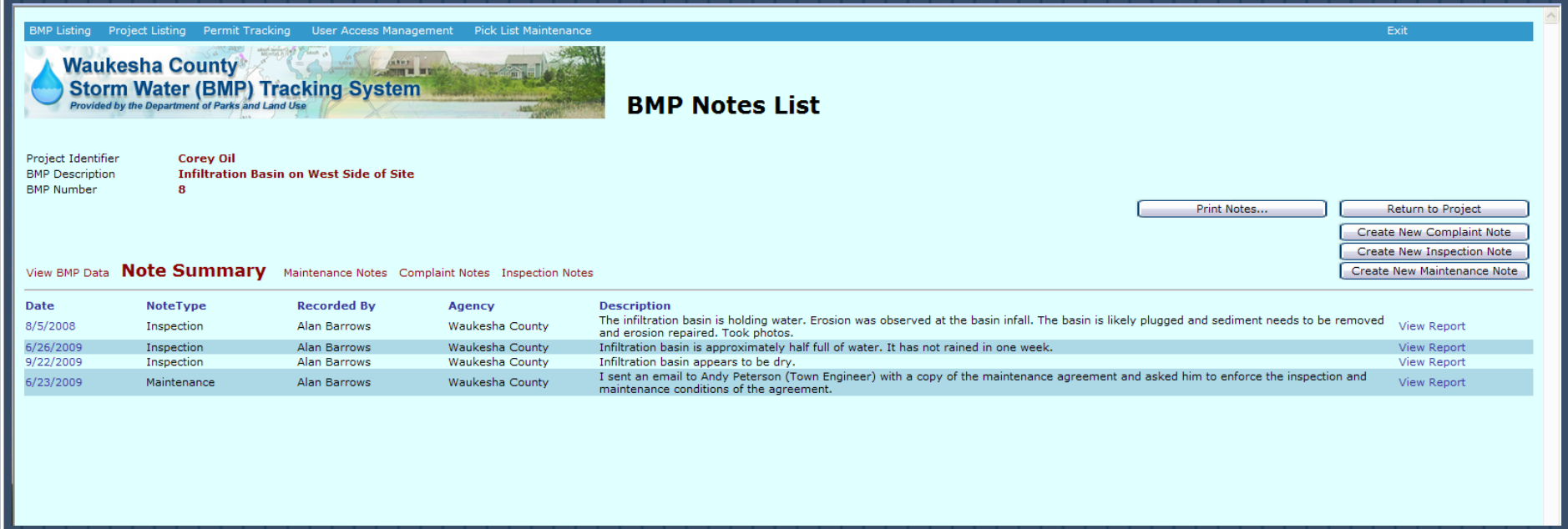
Watershed	Fox River Watershed
Subwatershed	Sussex Creek
Hydrologic Unit	
Parcel	LSBT0203058
Maintained By	Titleholders of Outlot

Create Date: 12/11/2008 2:41:10 PM Last Updated Date: 8/31/2009 2:48:53 PM Update Count: 3

Storm Water Database

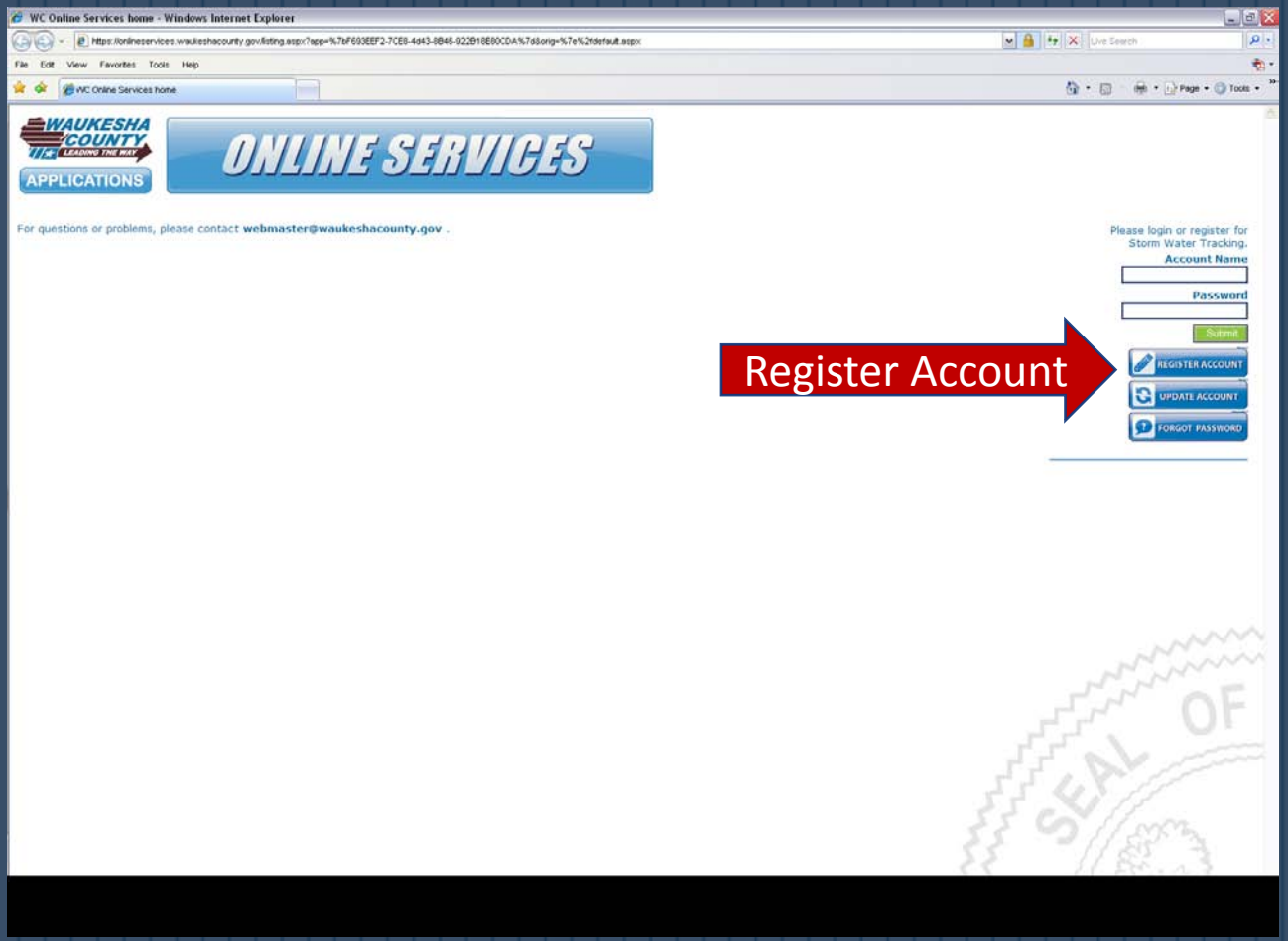
Viewing BMP Data Through the Database

Maintenance, Complaint & Inspection Notes



Entering Data Through the Database

Available to Waukesha County Municipalities
For information, send an email to plindquist@waukeshacounty.gov



Entering Data Through the Database

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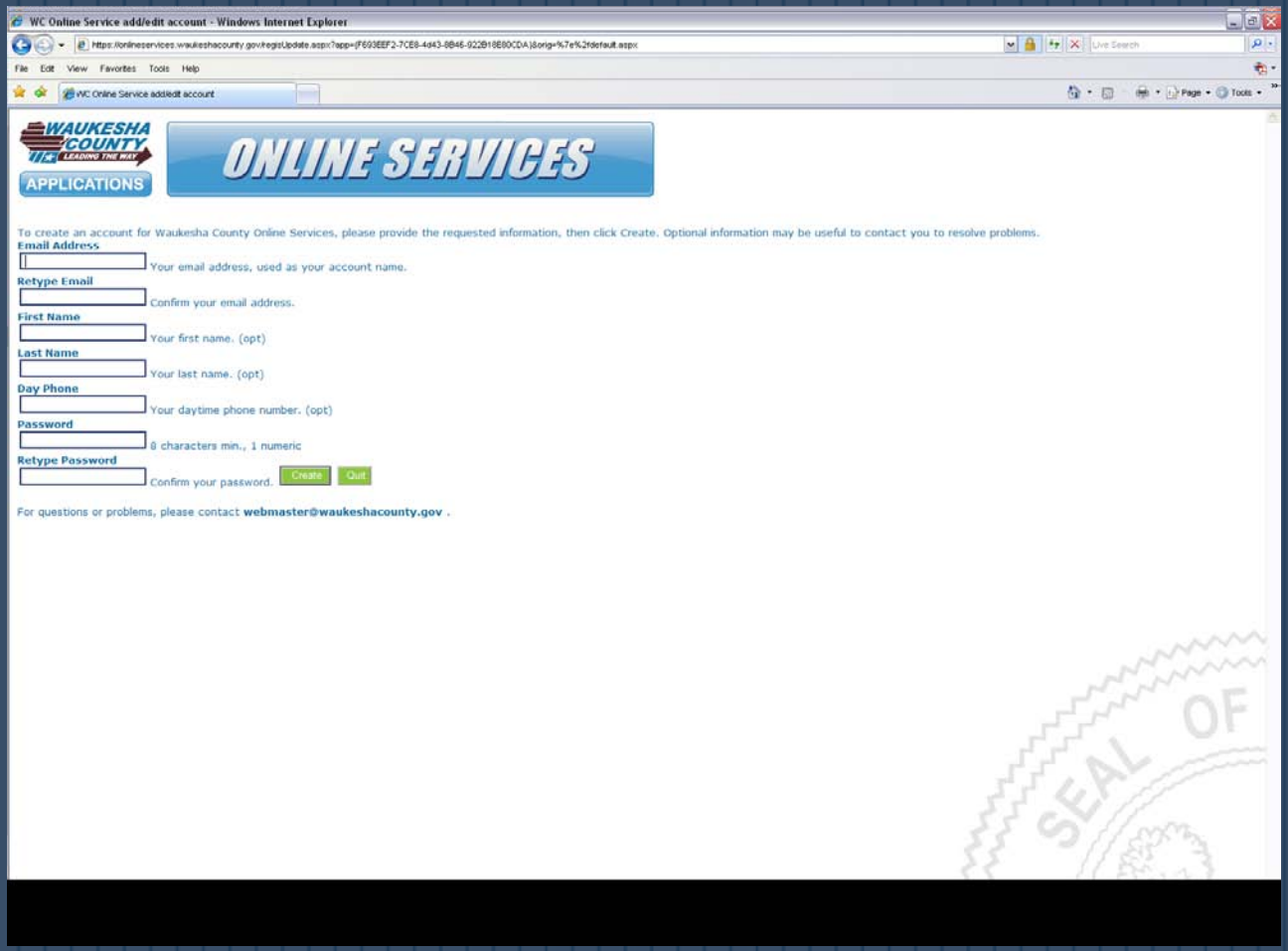
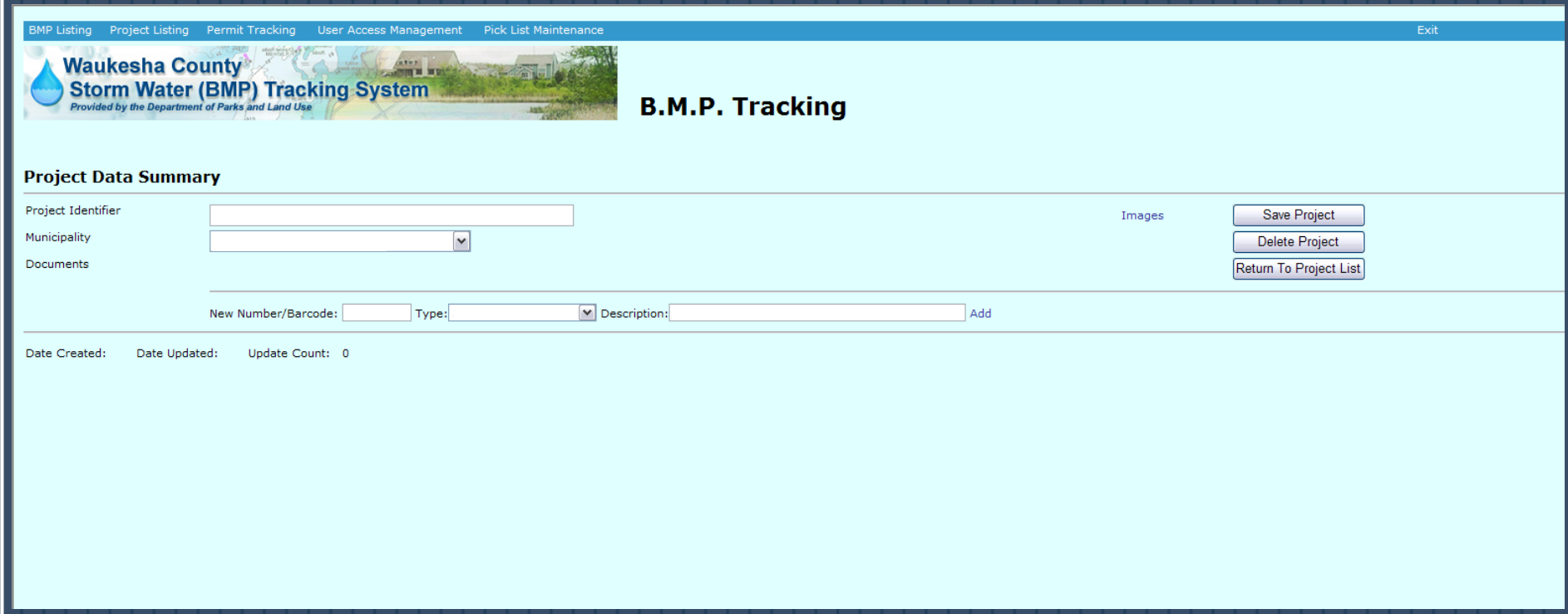


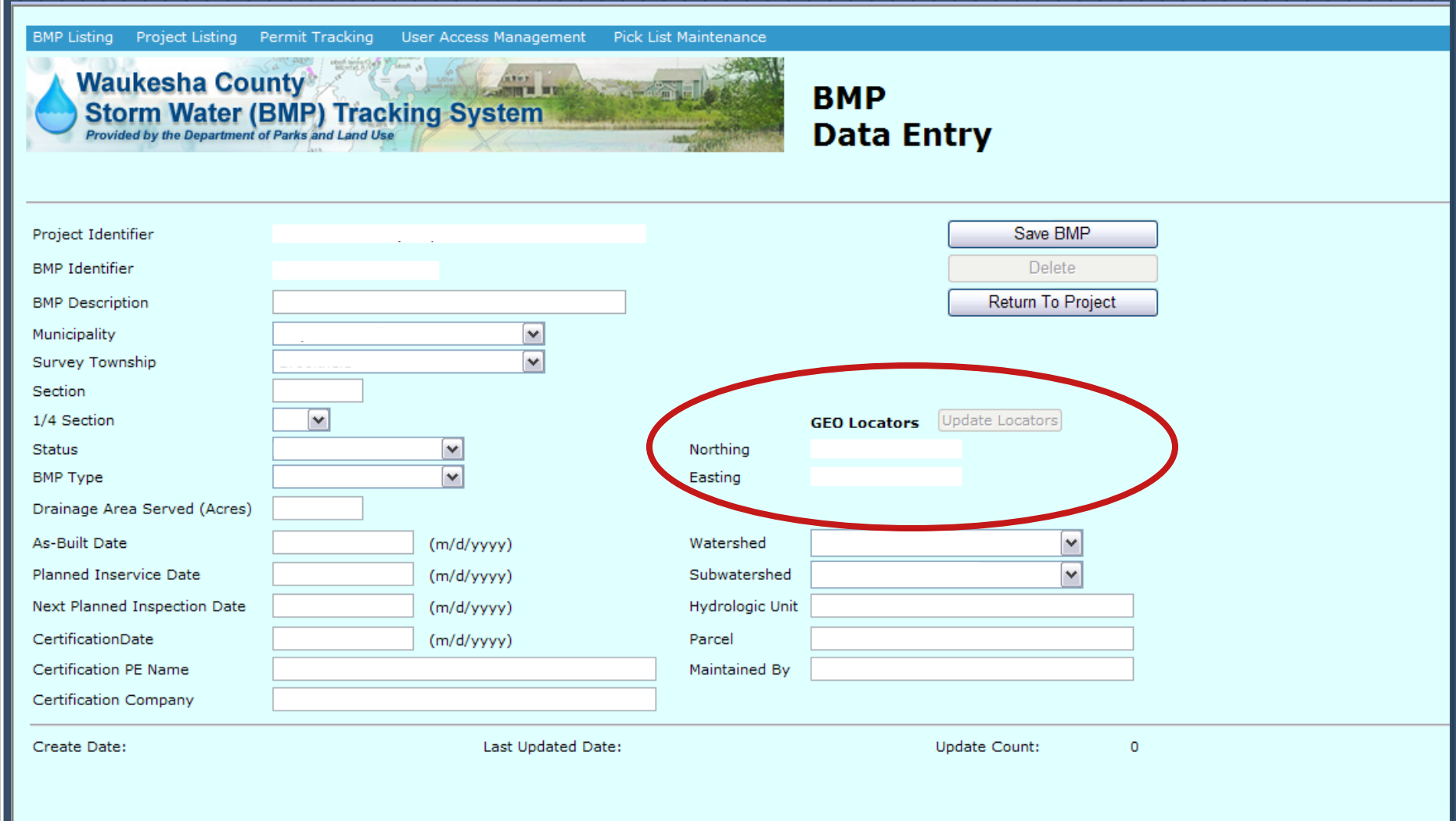
Entering Data Through the Database

Creating a New Project



Entering Data Through the Database

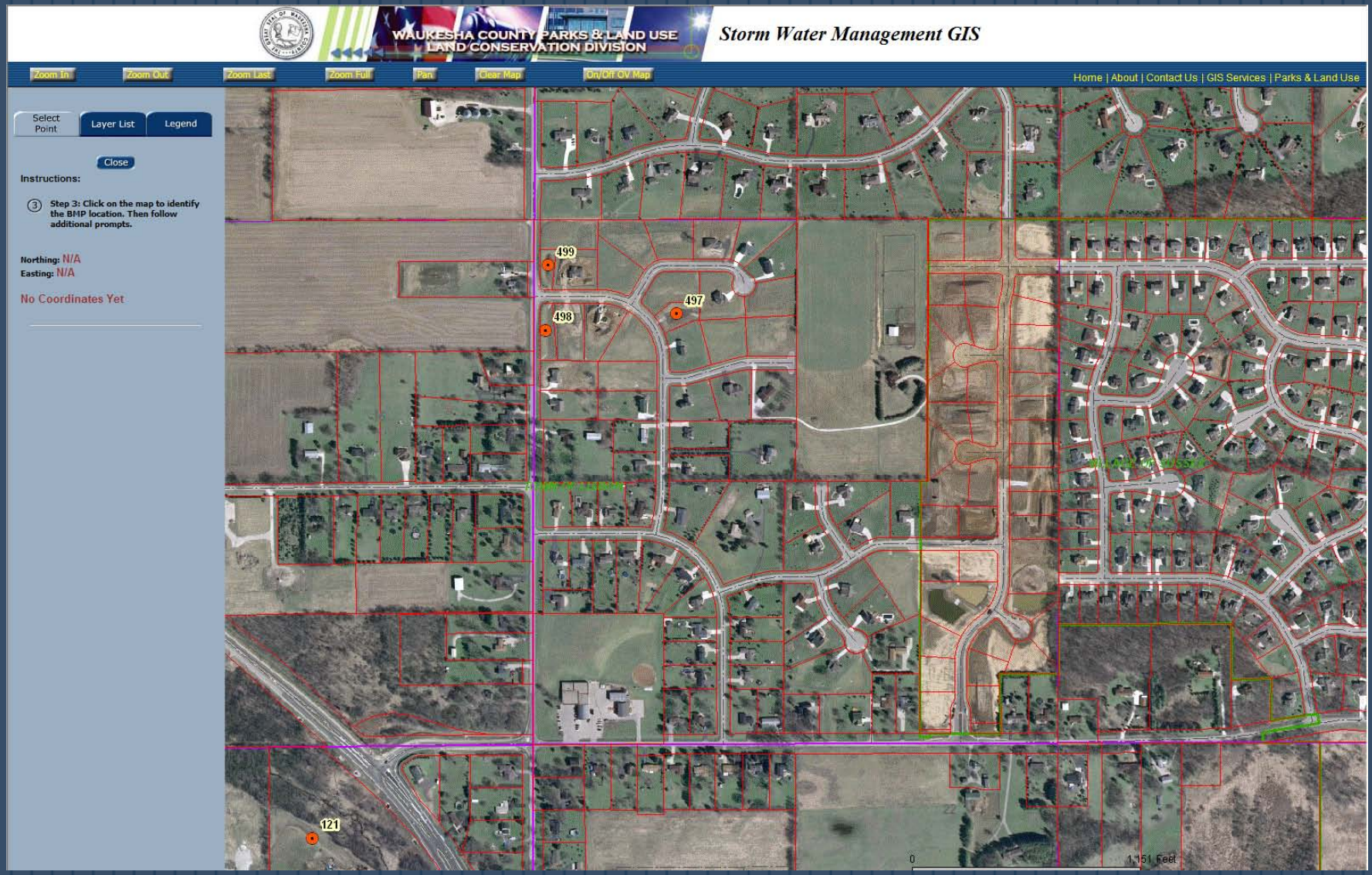
Creating a New BMP



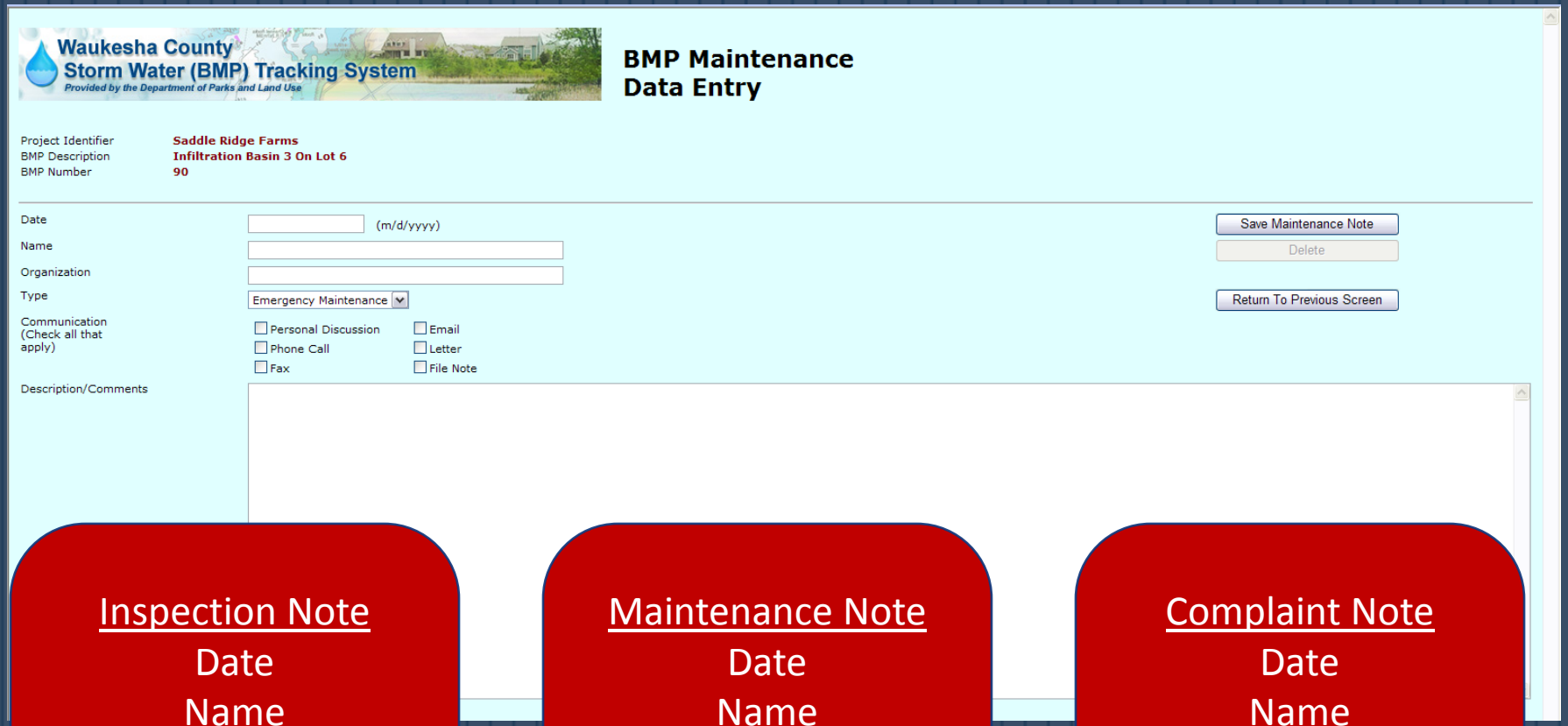
Entering BMP Coordinates Through the Database

Either use the coordinate collection utility or key in the BMP's location

Entering BMP Coordinates Through the Database



Entering BMP Notes Through the Database



Inspection Note
Date
Name
Organization
Maint. Order Issued?
Communication Type
Note

Maintenance Note
Date
Name
Organization
Maintenance Type
Communication Type
Note

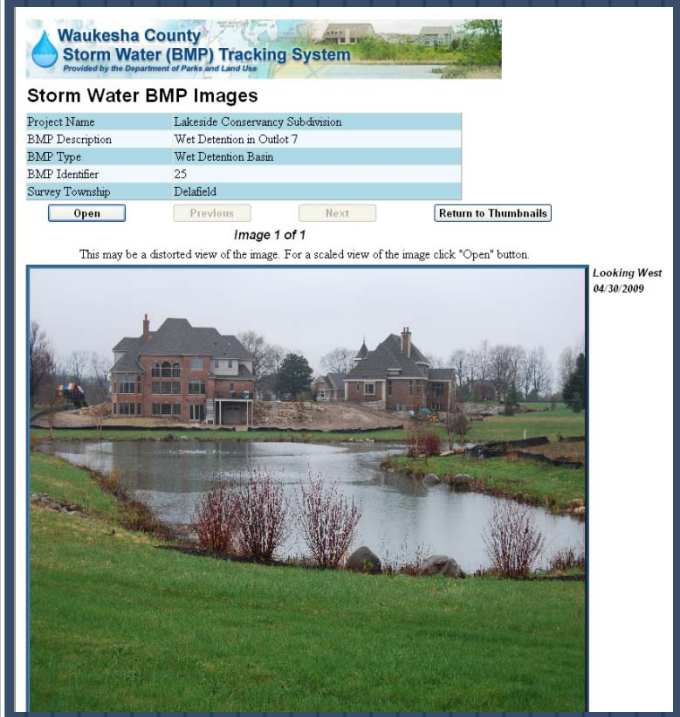
Complaint Note
Date
Name
Organization
Communication Type
Note

Entering Images Through the Database

BMP Photos

Survey Data

Maintenance Plans


Waukesha County
Storm Water (BMP) Tracking System
Provided by the Department of Parks and Land Use

Storm Water BMP Images

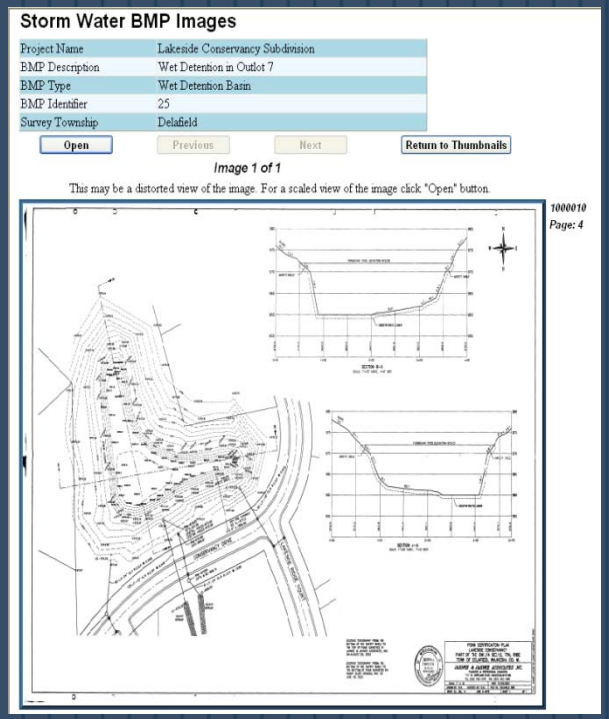
Project Name	Lakeside Conservancy Subdivision
BMP Description	Wet Detention in Outlet 7
BMP Type	Wet Detention Basin
BMP Identifier	25
Survey Township	Delafield

Open | Previous | Next | Return to Thumbnails

Image 1 of 1

This may be a distorted view of the image. For a scaled view of the image click "Open" button.

Looking West
04/30/2009


Storm Water BMP Images

Project Name	Lakeside Conservancy Subdivision
BMP Description	Wet Detention in Outlet 7
BMP Type	Wet Detention Basin
BMP Identifier	25
Survey Township	Delafield

Open | Previous | Next | Return to Thumbnails

Image 1 of 1

This may be a distorted view of the image. For a scaled view of the image click "Open" button.

1000010
Page: 4

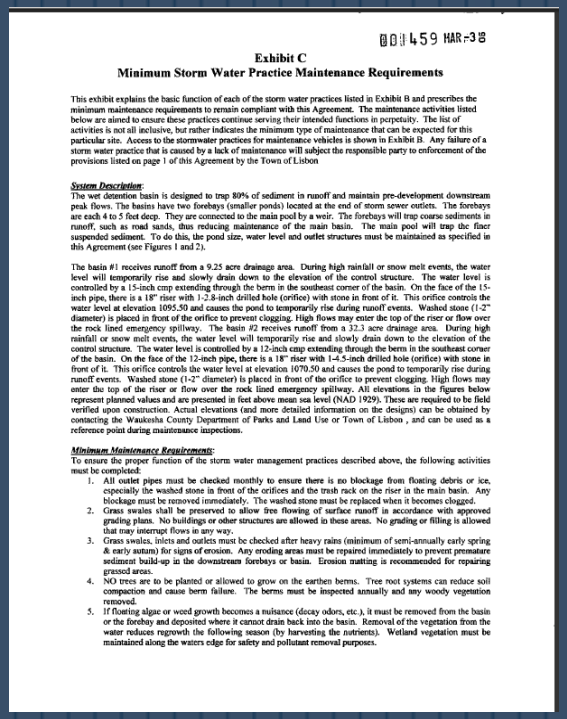

BOOK 459 MAR-38

Exhibit C
Minimum Storm Water Practice Maintenance Requirements

This exhibit explains the basic function of each of the storm water practices listed in Exhibit B and prescribes the minimum maintenance requirements to remain compliant with this Agreement. The maintenance activities listed below are aimed to ensure these practices continue serving their intended functions in perpetuity. The list of activities is not all inclusive, but rather indicates the minimum type of maintenance that can be expected for this particular site. Access to the stormwater practices for maintenance vehicles is shown in Exhibit B. Any failure of a storm water practice that is caused by a lack of maintenance will subject the responsible party to enforcement of the provisions listed on page 1 of this Agreement by the Town of Lisbon

System Description:
The wet detention basin is designed to trap 80% of sediment in runoff and maintain pre-development downstream peak flows. The basins have two forebays (smaller ponds) located at the end of storm sewer outlets. The forebays are each 4 to 5 feet deep. They are connected to the main pool by a weir. The forebays will trap coarse sediments in runoff, such as road sands, thus reducing maintenance of the main basin. The main pool will trap the finer suspended sediment. To do this, the pond size, water level and outlet structures must be maintained as specified in this Agreement (see Figures 1 and 2).

The basin #1 receives runoff from a 9.25 acre drainage area. During high rainfall or snow melt events, the water level will temporarily rise and slowly drain down to the elevation of the control structure. The water level is controlled by a 15-inch cmp extending through the berm in the southeast corner of the basin. On the face of the 15-inch pipe, there is a 18" riser with 1-2.8-inch drilled hole (orifice) with stone in front of it. This orifice controls the water level at elevation 1095.50 and causes the pond to temporarily rise during runoff events. Washed stone (1-2" diameter) is placed in front of the orifice to prevent clogging. High flows may enter the top of the riser or flow over the rock lined emergency spillway. The basin #2 receives runoff from a 32.3 acre drainage area. During high rainfall or snow melt events, the water level will temporarily rise and slowly drain down to the elevation of the control structure. The water level is controlled by a 12-inch cmp extending through the berm in the southeast corner of the basin. On the face of the 12-inch pipe, there is a 18" riser with 1-4.5-inch drilled hole (orifice) with stone in front of it. This orifice controls the water level at elevation 1070.50 and causes the pond to temporarily rise during runoff events. Washed stone (1-2" diameter) is placed in front of the orifice to prevent clogging. High flows may enter the top of the riser or flow over the rock lined emergency spillway. All elevations in the figures below represent planned values and are presented in feet above mean sea level (NAD 1929). These are required to be field verified upon construction. Actual elevations (and more detailed information on the designs) can be obtained by contacting the Waukesha County Department of Parks and Land Use or Town of Lisbon , and can be used as a reference point during maintenance inspections.

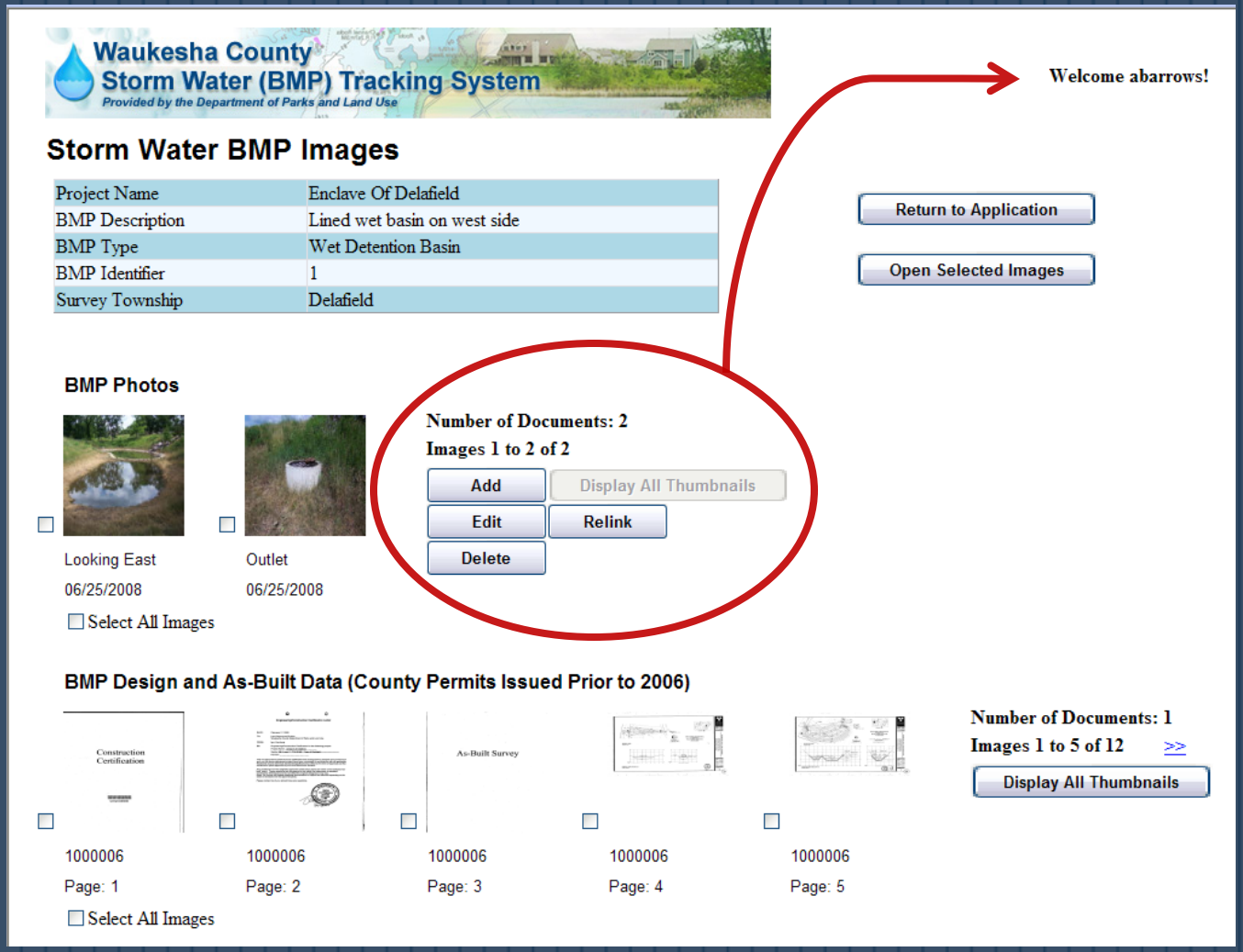
Minimum Maintenance Requirements:
To ensure the proper function of the storm water management practices described above, the following activities must be completed:

1. All outlet pipes must be checked monthly to ensure there is no blockage from floating debris or ice, especially the washed stone in front of the orifices and the trash rack on the riser in the main basin. Any blockage must be removed immediately. The washed stone must be replaced when it becomes clogged.
2. Grass swales shall be preserved to allow free flowing of surface runoff in accordance with approved grading plans. No buildings or other structures are allowed in these areas. No grading or filling is allowed that may interrupt flows in any way.
3. Grass swales, inlets and outlets must be checked after heavy rains (minimum of semi-annually early spring & early autumn) for signs of erosion. Any eroding areas must be repaired immediately to prevent premature sediment build-up in the downstream forebays or basin. Erosion matting is recommended for repairing grassed areas.
4. NO trees are to be planted or allowed to grow on the earthen berms. Tree root systems can reduce soil compaction and cause berm failure. The berms must be inspected annually and any woody vegetation removed.
5. If floating algae or weed growth becomes a nuisance (decay odors, etc.), it must be removed from the basin or the forebay and deposited where it cannot drain back into the basin. Removal of the vegetation from the water reduces regrowth the following season (by harvesting the nutrients). Wetland vegetation must be maintained along the waters edge for safety and pollutant removal purposes.

Also Inspection Reports

Entering Images Through the Database

Entering Images Through the Database

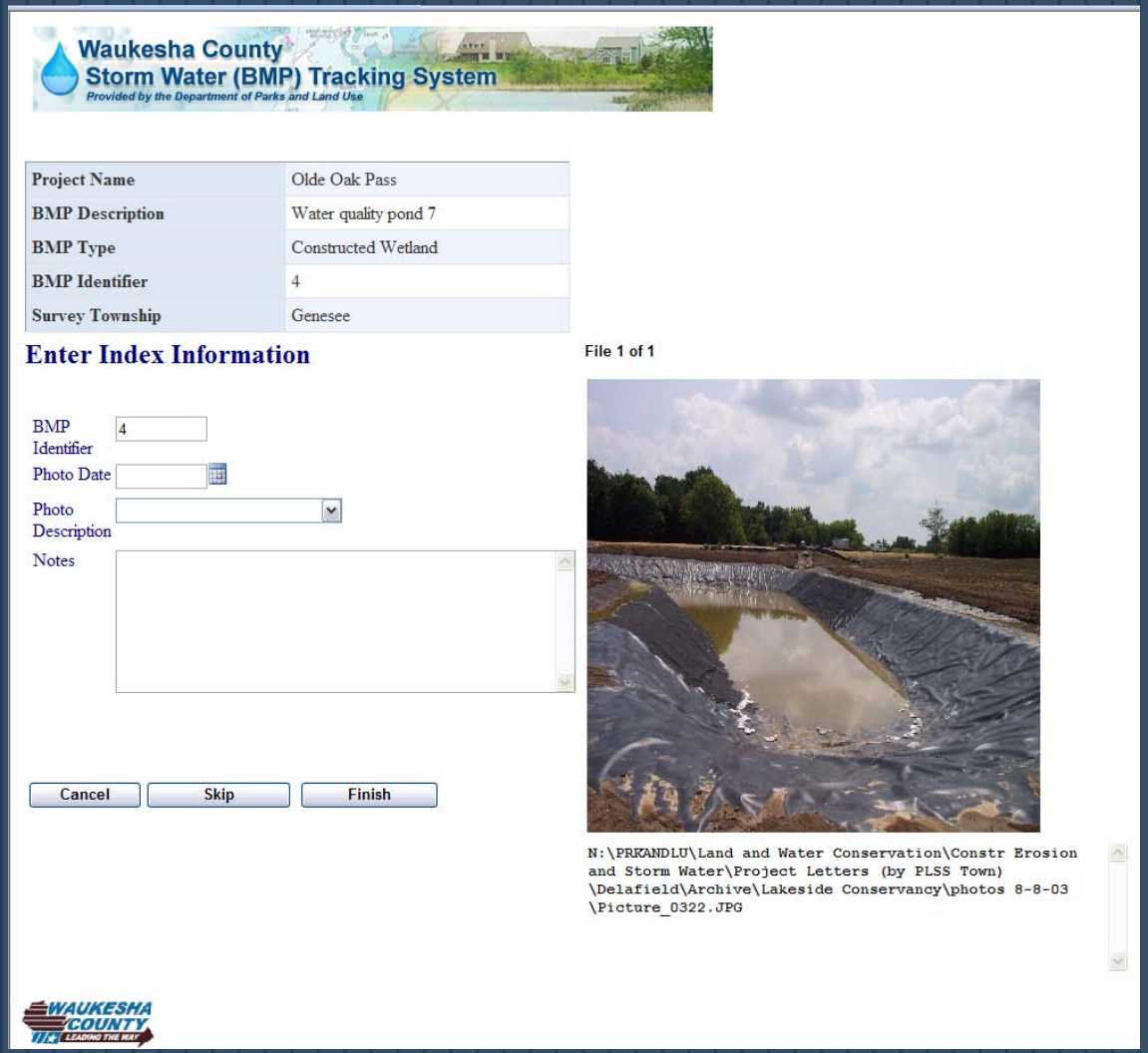


Additional functionality when logged in

Entering Images Through the Database

Image Indexing Tool

- BMP Identifier
- Photo Date
- Photo Description
- Notes



Entering Images Through the Database

Scanned inspection reports

Black Oak Ridge Report
7/3/08
Jay Setterstan
Agrecol Corporation

To:
Alan A. Barrows
Sr. Conservation Specialist
Waukesha County Land Resources Division
Phone: 262-896-8307
abarrows@waukeshacounty.gov

Review of Vegetated Stormwater Basins at Black Oak Ridge:

Assessment of the native vegetation planting at Black Oak Ridge took place on Friday June, 27th 2008.

Upon review of the designated planting area, the following notable items were viewed:

1. Overall the native vegetation looked very good with many species coming into bloom and beginning to establish strong root systems. It appears that all wet species have held up well during prolonged wet periods created by extreme rainfall over the last months.

2. One area of concern is located at the N.E. corner of the center pond where there is a definite void in native vegetation. This void will be planted with 32 native plants of similar species to those originally specified for the project. This planting will be provided and installed by Agrecol Corporation or one of its representatives at no charge to the County. The planting will include an initial watering to aid in establishment. Waukesha County will be notified of the completion of this planting so additional watering can be accomplished should there be a prolonged dry period following installation.

3. There are a few invasive and noxious weed species beginning to enter the native planting area. It is highly recommended that a simple spot spraying be completed by mid September. This spot spraying must be accomplished by a qualified applicator. This applicator must be able to distinguish the difference between native species and invasive / noxious species.

4. The existing silt fence must be removed.

5. The surrounding out lot areas must be mowed at least twice each year during the growing season. Recommended dates would be mid to late June and late August. The

000680 MAY 1998

Maintenance Inspection Form
Storm Water Management Systems
Detention/Retention Ponds
Town of Waukesha

Inspection Date: _____

Inspector Name: _____ Subdivision: _____
Company Name: _____
Company Address: _____
Company Phone Number _____
Company Fax Number: _____

Storm Water:
Retention Pond ☐
Detention Pond ☐
Grass Swale ☐

Items Inspected	Checked Yes	Checked No	Maintenance Needed Yes	Maintenance Needed No	Remarks
I. Pond components					
A. Embankment and Emergency Spillway					
1. Vegetation and ground cover adequate					
2. Embankment erosion					
3. Animal burrows					
4. Unauthorized plantings					
5. Cracking, bulging, or sliding of berm					
a. Upstream face					
b. Downstream face					
c. At or beyond toe					
• Upstream					
• Downstream					
d. Emergency spillway					
6. Pond, toe & chimney drains clear and functioning					
7. Seeps/leaks on downstream face					

1

5/6/02 04

Rev-ed-MKK
c:\Maintenance and settings\[illegible]\waukesha-maint-inspection-retention-ponds-master.doc

Entering Images Through the Database

Digital inspection reports

Waukesha County Dept. of Parks & Land Use – Land Resources Division
515 W. Moreland Blvd., Room AC260
Waukesha, WI 53188-3868

Phone: 262-896-8300 Fax: 262-896-8298

Structural BMP Inspection Report Cover Sheet

Use only one cover sheet per project with as many specific structural BMP inspection report attachments as needed. Please provide digital photographs of the site and BMPs.

Provide

Project Name: [____]

Project Municipality: [____]

Weather Conditions: [____]

Date of Last Rainfall: [____]

BMP Owner's/Responsible Party's Name: [____]

BMP Owner's/Responsible Party's Address: [____]

Inspector's Name: [____]

Inspector's Company: [____]

Inspector's Mailing Address: [____]

Inspector's Phone Number: [____]

Inspector's Fax Number: [____]

Inspector's Email Address: [____]

Inspection Report Attachments

The listed attachments are the structural BMP Inspection Reports to be completed for this particular site. Please use one attachment per BMP inspected and submit all forms together with this Cover Sheet as one single report. Also, please document the number of each structural BMP found at this site in the below blank spaces.

	Number of BMPs at this site:
Attachment A: **Wet Detention Basin**	[____]
Attachment B: **Infiltration Basin**	[____]
Attachment C: **Bioretention Basin**	[____]
Attachment D: **Constructed Wetland/Sediment Trap**	[____]
Attachment E: **Dry Detention Basin**	[____]
Attachment F: **Grassed Swale**	[____]
Attachment G: **Sand Filter**	[____]
Attachment H: **Filter Strip/Level Spreader**	[____]
Attachment I: **In-Ground Water Quality Device**	[____]
Attachment J: **Underground Storage/Infiltration**	[____]
Attachment K: **Rain Garden**	[____]

Structural BMP Inspection Report Cover Sheet

Inspection Results

Do any of the project BMPS inspected need maintenance? Yes ☐ No ☐

If *"yes"*, list the BMP Description and BMP Number: *(i.e. wet detention #3, infiltration basin 2A, etc.)*

a. [ ]

b. [ ]

c. [ ]

d. [ ]

e. [ ]

f. [ ]

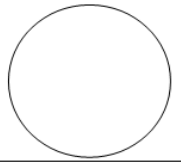
Professional Certification (Registered Wisconsin professional engineer, surveyor, or landscape architect)*:

To be completed only when all structural BMPS at this site are functional with no outstanding maintenance issues.

I, [____], as a duly registered [____] in the State of Wisconsin hereby certify that, to the best of my knowledge, this report presented reflects the current conditions of the storm water management BMPS for this project.

Signature: _____

Date: [____]



**The BMP inspection report cover sheet shall be signed by a registered professional engineer, land surveyor or landscape architect licensed in the State of Wisconsin or other qualified professional (with description of qualification).*

Entering Images Through the Database

BMP Maintenance Agreements (Unofficial Copy)

Number of Documents: 1
Images 1 to 1 of 1

Display All Thumbnails

3202627

Select All Images

Recorded BMP Maintenance Agreements

Number of Documents: 1
Images 1 to 5 of 7 >>

Display All Thumbnails

3202627	3202627	3202627	3202627	3202627
Page: 1	Page: 2	Page: 3	Page: 4	Page: 5

Select All Images

Link to Waukesha County Register of Deeds for Purchasing Recorded Documents

BMP Inspection Reports

No images available for this Section...

Add

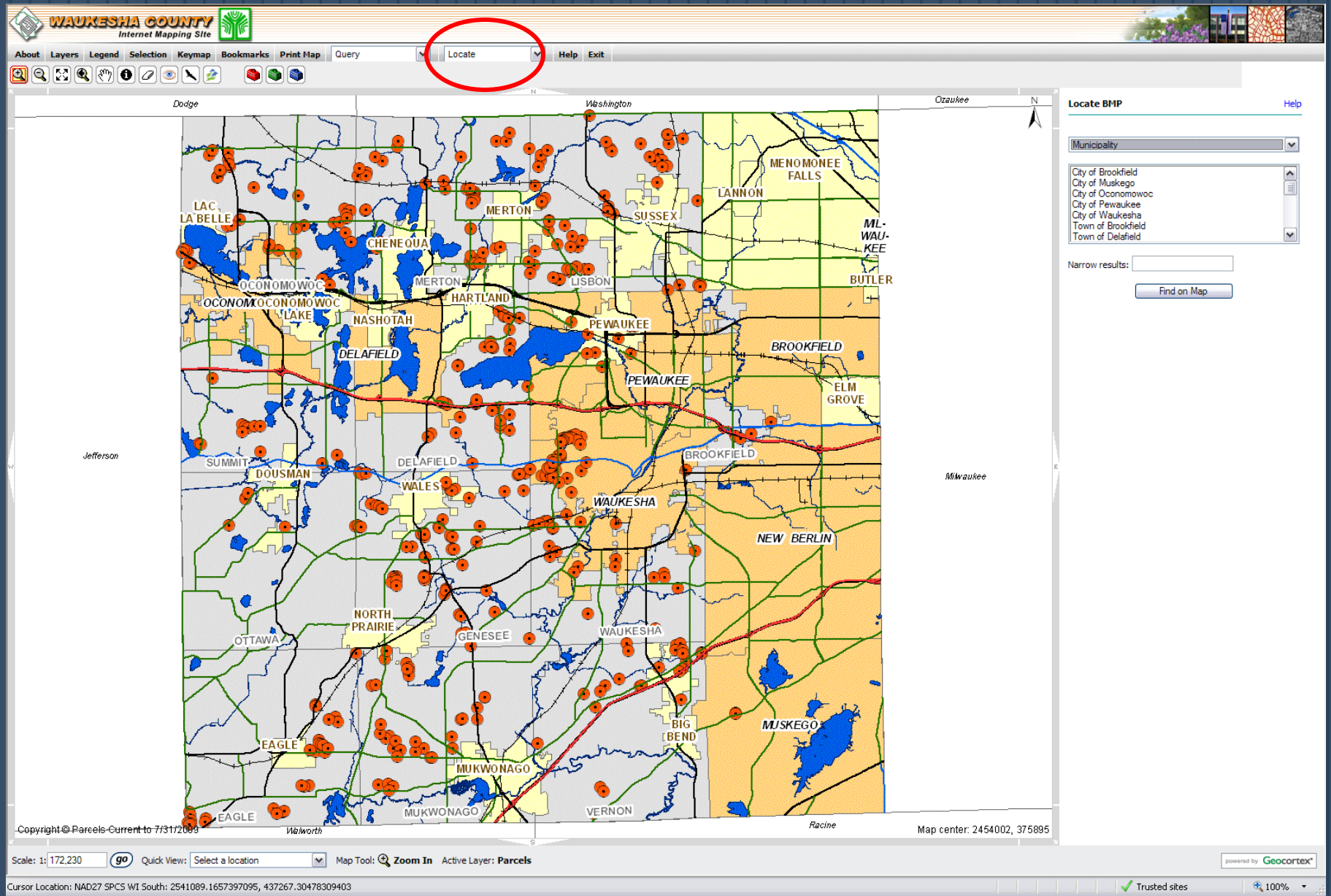
Open Selected Images

This program accesses data from the Waukesha County Stellent Imaging database. There may be inconsistency in data depending on the date the information was gathered or the purpose for which it is maintained. Due to variances in sources and update cycles, there is no guarantee as to the accuracy of the data. This program works well with browser version IE7 & Acrobat Reader version 8 and up.

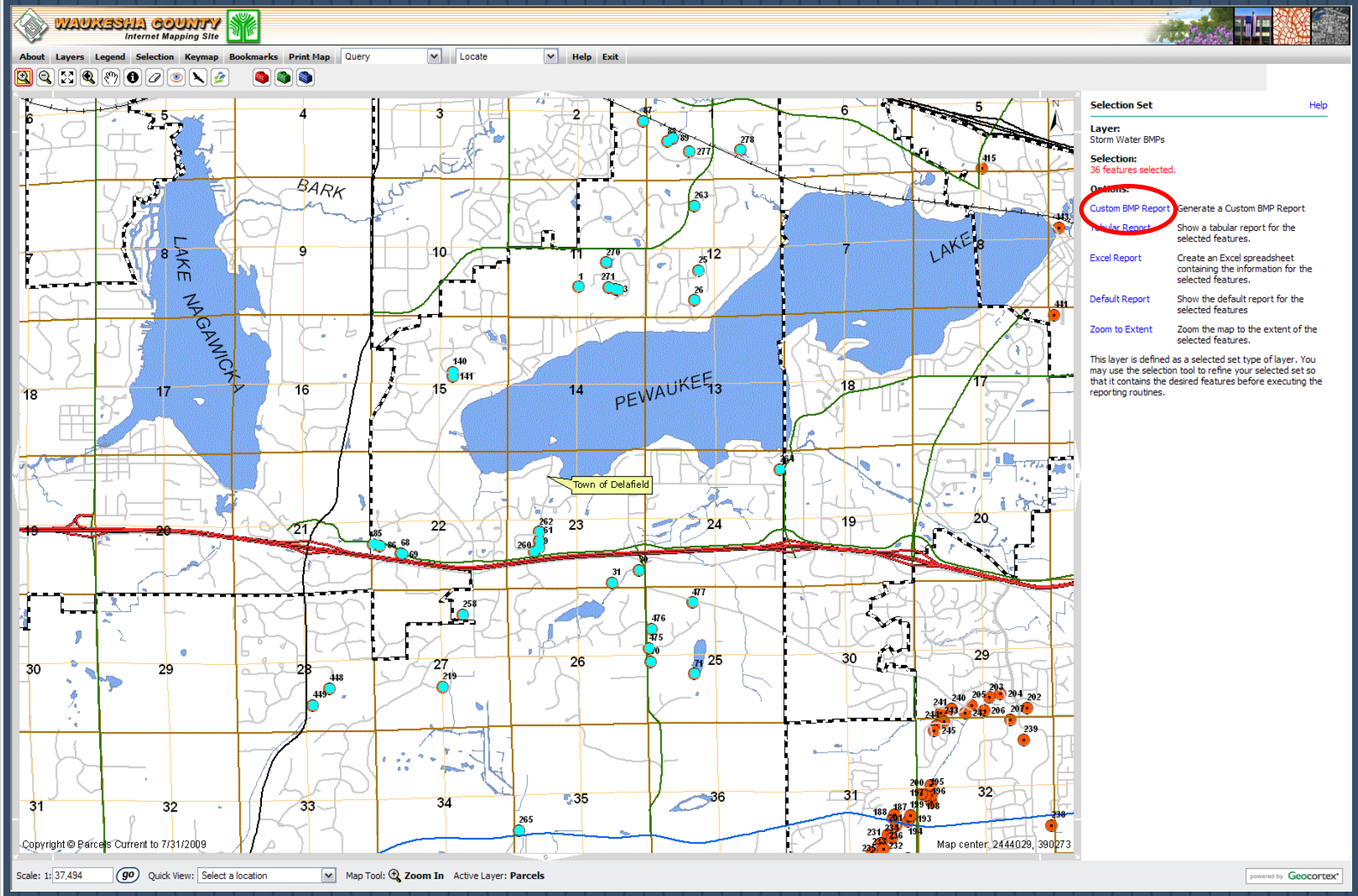
Questions, comments, and concerns regarding this web site should be directed to

Additional functionality when logged in

Reports & Output



Reports & Output



Reports & Output

BMP Report

Waukesha County Storm Water (BMP) Tracking System

BMP Type: *Wet Detention Basin*
Project: Enclave Of Delafield
BMP Description: Lined wet basin on west side
Contributing Watershed Area (Acres): 37.46
Maintained By: Owners of Lots 1 - 12 of Enclave of Delafield
Document #'s 1000006, 3202627

BMP Location
Municipality: Town of Delafield
Public Land Survey System
SE 1/4 of Section 11 of Township/Range 0718

Watershed: Fox River Watershed
Subwatershed: Pewaukee Lake
Northing: 397596.30
Easting: 2445277.69

Constuction Verification
Verifying Engineer: Igor Vaynberg, PE
Verifying Company: Welch Hanson Associates
Verification Date:
As-Built Survey Date:
Last Inspection Date:
Next Inspection Date:

BMP Reference #: 1

BMP Type: *Permanent Sediment Trap*
Project: Enclave Of Delafield
BMP Description: Permanent Sediment B
Contributing Watershed Area (Acres): 10.00
Maintained By: Owners of Lots 1 - 12 of Enclave of Delafield
Document #'s 1000006, 3202627

BMP Location
Municipality: Town of Delafield
Public Land Survey System
SE 1/4 of Section 11 of Township/Range 0718

Watershed: Fox River Watershed
Subwatershed: Pewaukee Lake
Northing: 397476.16
Easting: 2446807.92

Constuction Verification
Verifying Engineer: Igor Vaynberg, PE
Verifying Company: Welch Hanson Associates
Verification Date:
As-Built Survey Date:
Last Inspection Date:
Next Inspection Date:

BMP Reference #: 2

BMP Type: *Rain Garden*
Project: Enclave Of Delafield
BMP Description: Regional Rain Gardens
Contributing Watershed Area (Acres): 10.00
Maintained By: Owners of Lots 1 - 12 of Enclave of Delafield
Document #'s 1000006, 3202627

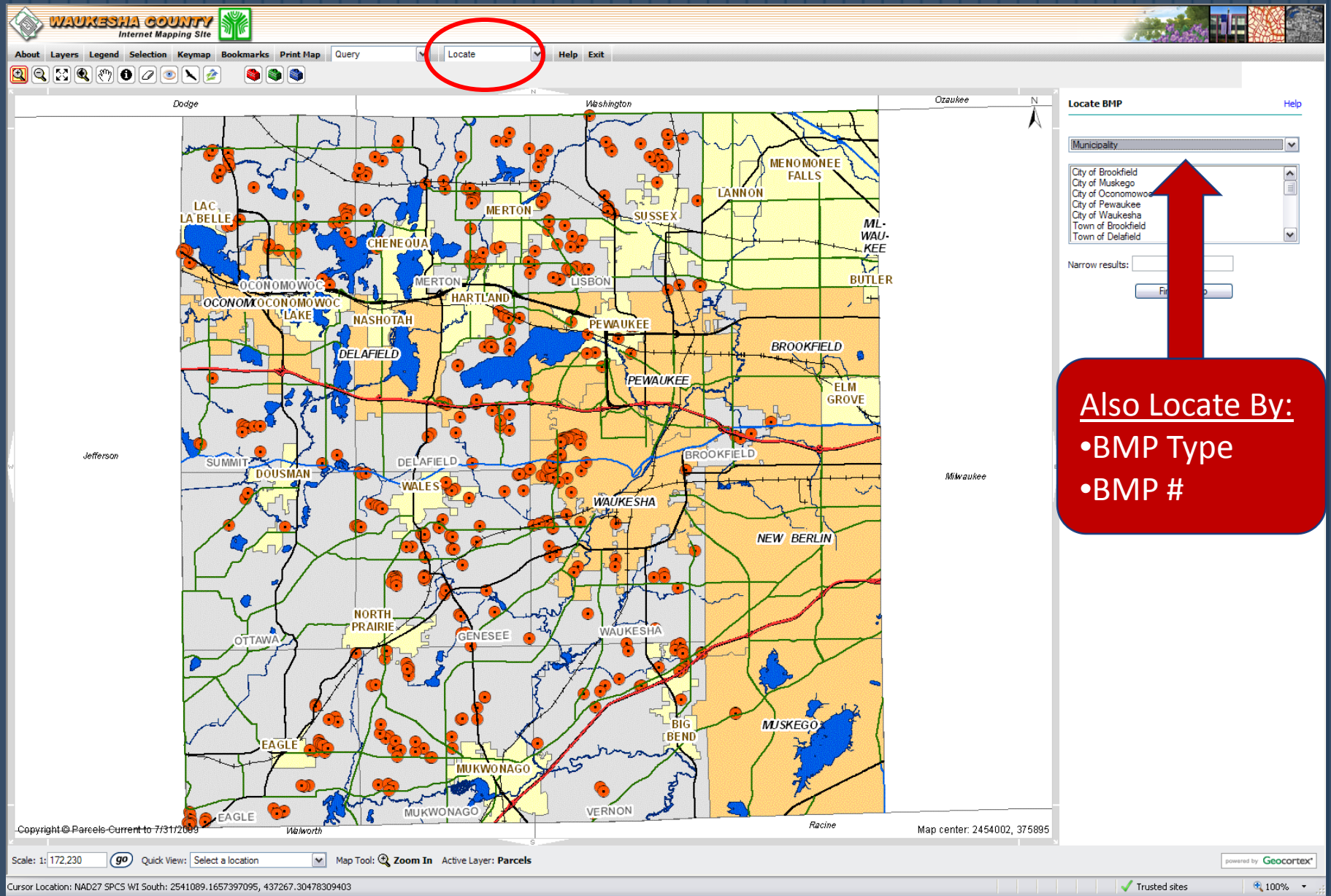
BMP Location
Municipality: Town of Delafield
Public Land Survey System
SE 1/4 of Section 11 of Township/Range 0718

Watershed: Fox River Watershed
Subwatershed: Pewaukee Lake
Northing: 397506.10
Easting: 2446713.11

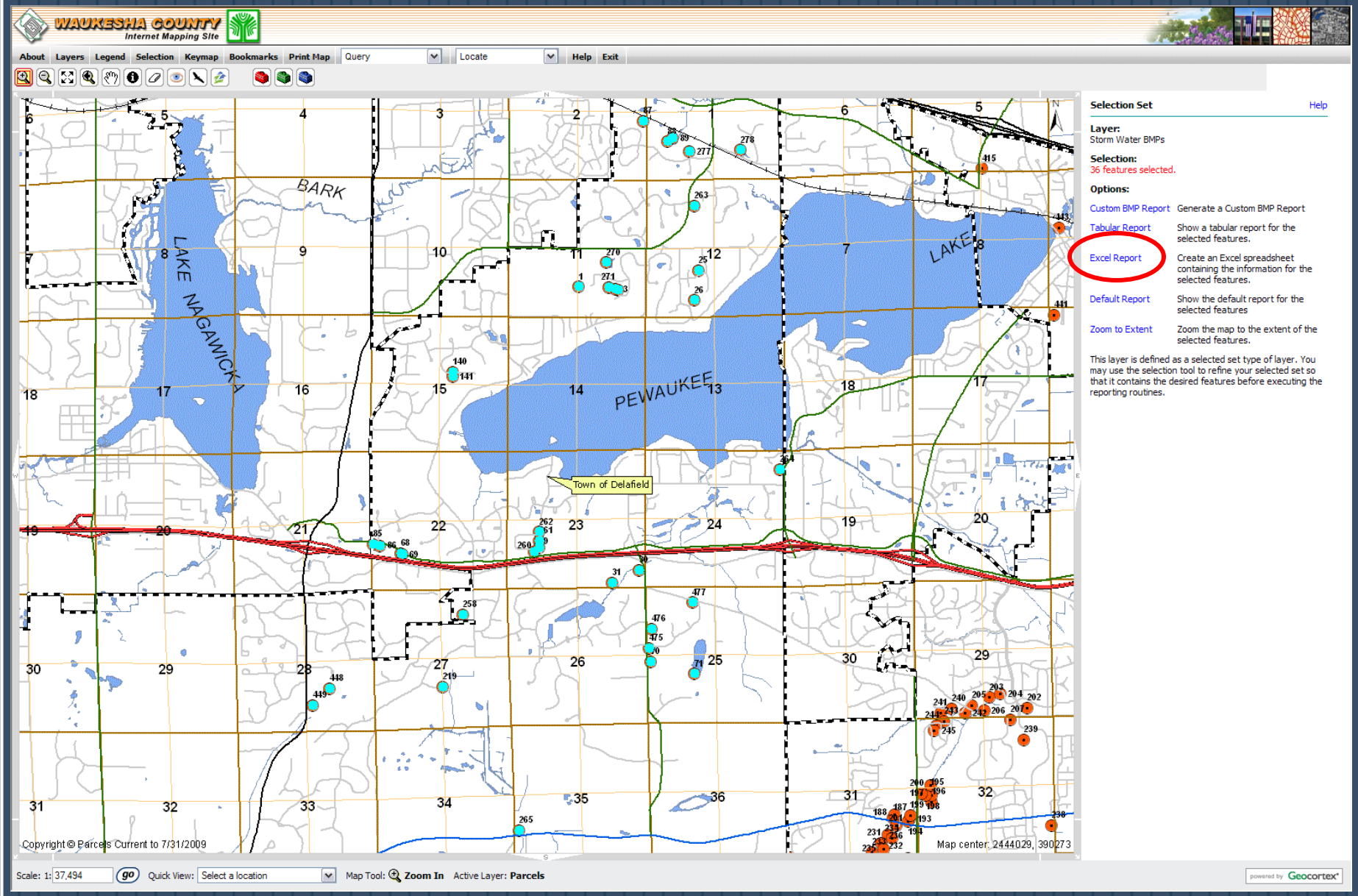
Constuction Verification
Verifying Engineer: Igor Vaynberg, PE
Verifying Company: Welch Hanson Associates
Verification Date:
As-Built Survey Date:
Last Inspection Date:
Next Inspection Date:

BMP Reference #: 3

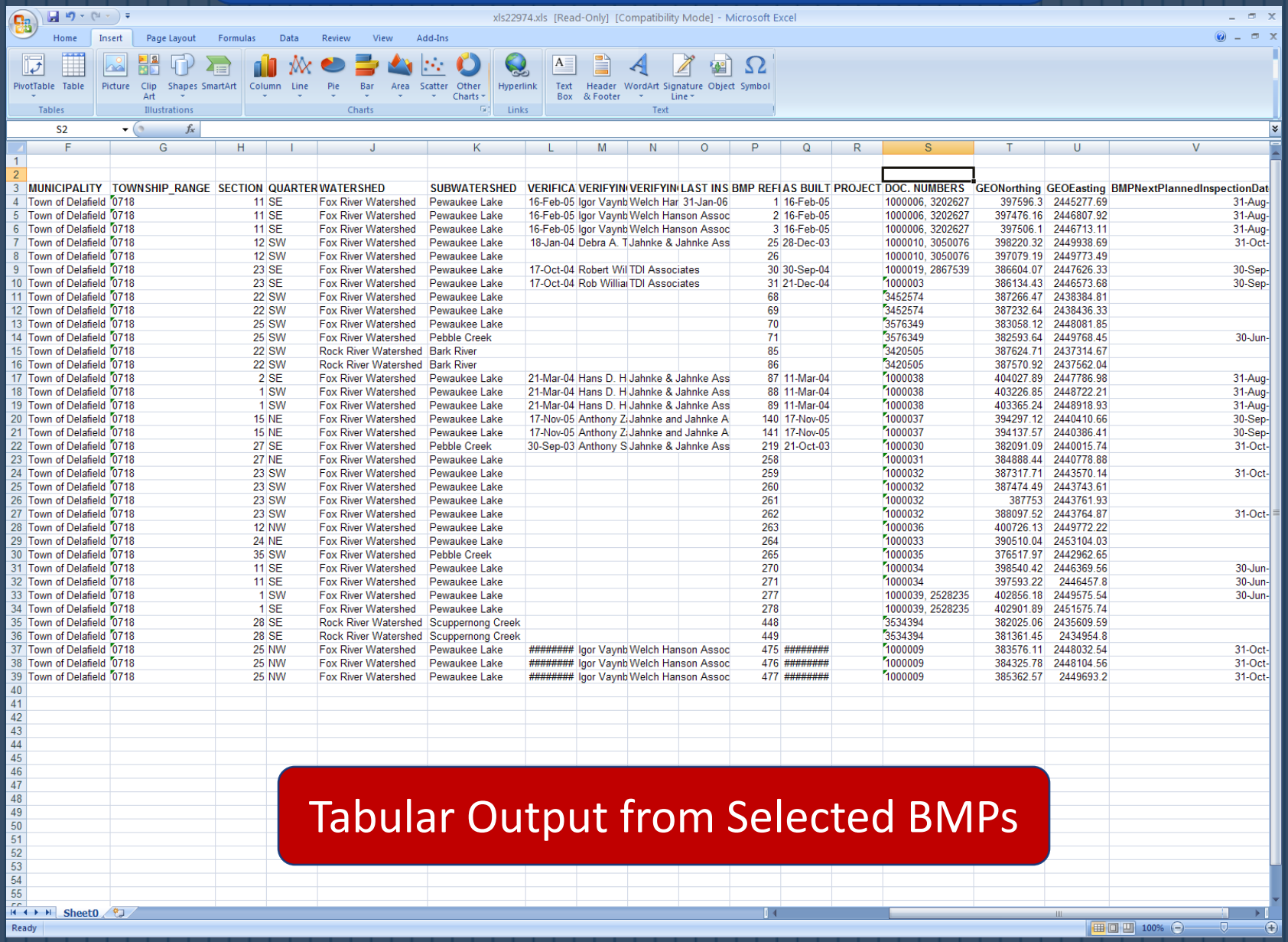
Reports & Output



Reports & Output



Reports & Output



	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																	
2																	
3	MUNICIPALITY	TOWNSHIP_RANGE	SECTION	QUARTER	WATERSHED	SUBWATERSHED	VERIFICA	VERIFYIN	VERIFYIN	LAST INS	BMP REFI	AS BUILT	PROJECT	DOC. NUMBERS	GEONorthing	GEOEasting	BMPNextPlannedInspectionDat
4	Town of Delafield	0718	11	SE	Fox River Watershed	Pewaukee Lake	16-Feb-05	Igor Vaynb	Welch Har	31-Jan-06	1	16-Feb-05		1000006, 3202627	397596.3	2445277.69	31-Aug-
5	Town of Delafield	0718	11	SE	Fox River Watershed	Pewaukee Lake	16-Feb-05	Igor Vaynb	Welch Hanson Assoc		2	16-Feb-05		1000006, 3202627	397476.16	2446807.92	31-Aug-
6	Town of Delafield	0718	11	SE	Fox River Watershed	Pewaukee Lake	16-Feb-05	Igor Vaynb	Welch Hanson Assoc		3	16-Feb-05		1000006, 3202627	397506.1	2446713.11	31-Aug-
7	Town of Delafield	0718	12	SW	Fox River Watershed	Pewaukee Lake	18-Jan-04	Debra A. T	Jahnke & Jahnke Ass		25	28-Dec-03		1000010, 3050076	398220.32	2449938.69	31-Oct-
8	Town of Delafield	0718	12	SW	Fox River Watershed	Pewaukee Lake					26			1000010, 3050076	397079.19	2449773.49	
9	Town of Delafield	0718	23	SE	Fox River Watershed	Pewaukee Lake	17-Oct-04	Robert Wil	TDI Associates		30	30-Sep-04		1000019, 2867539	386604.07	2447626.33	30-Sep-
10	Town of Delafield	0718	23	SE	Fox River Watershed	Pewaukee Lake	17-Oct-04	Rob Willia	TDI Associates		31	21-Dec-04		1000003	386134.43	2446573.68	30-Sep-
11	Town of Delafield	0718	22	SW	Fox River Watershed	Pewaukee Lake					68			3452574	387266.47	2438384.81	
12	Town of Delafield	0718	22	SW	Fox River Watershed	Pewaukee Lake					69			3452574	387232.64	2438436.33	
13	Town of Delafield	0718	25	SW	Fox River Watershed	Pewaukee Lake					70			3576349	383058.12	2448081.85	
14	Town of Delafield	0718	25	SW	Fox River Watershed	Pebble Creek					71			3576349	382593.64	2449768.45	30-Jun-
15	Town of Delafield	0718	22	SW	Rock River Watershed	Bark River					85			3420505	387624.71	2437314.67	
16	Town of Delafield	0718	22	SW	Rock River Watershed	Bark River					86			3420505	387570.92	2437562.04	
17	Town of Delafield	0718	2	SE	Fox River Watershed	Pewaukee Lake	21-Mar-04	Hans D. H	Jahnke & Jahnke Ass		87	11-Mar-04		1000038	404027.89	2447786.98	31-Aug-
18	Town of Delafield	0718	1	SW	Fox River Watershed	Pewaukee Lake	21-Mar-04	Hans D. H	Jahnke & Jahnke Ass		88	11-Mar-04		1000038	403226.85	2448722.21	31-Aug-
19	Town of Delafield	0718	1	SW	Fox River Watershed	Pewaukee Lake	21-Mar-04	Hans D. H	Jahnke & Jahnke Ass		89	11-Mar-04		1000038	403365.24	2448918.93	31-Aug-
20	Town of Delafield	0718	15	NE	Fox River Watershed	Pewaukee Lake	17-Nov-05	Anthony Z	Jahnke and Jahnke A		140	17-Nov-05		1000037	394297.12	2440410.66	30-Sep-
21	Town of Delafield	0718	15	NE	Fox River Watershed	Pewaukee Lake	17-Nov-05	Anthony Z	Jahnke and Jahnke A		141	17-Nov-05		1000037	394137.57	2440386.41	30-Sep-
22	Town of Delafield	0718	27	SE	Fox River Watershed	Pebble Creek	30-Sep-03	Anthony S	Jahnke & Jahnke Ass		219	21-Oct-03		1000030	382091.09	2440015.74	31-Oct-
23	Town of Delafield	0718	27	NE	Fox River Watershed	Pewaukee Lake					258			1000031	384888.44	2440778.88	
24	Town of Delafield	0718	23	SW	Fox River Watershed	Pewaukee Lake					259			1000032	387317.71	2443570.14	31-Oct-
25	Town of Delafield	0718	23	SW	Fox River Watershed	Pewaukee Lake					260			1000032	387474.49	2443743.61	
26	Town of Delafield	0718	23	SW	Fox River Watershed	Pewaukee Lake					261			1000032	387753	2443761.93	
27	Town of Delafield	0718	23	SW	Fox River Watershed	Pewaukee Lake					262			1000032	388097.52	2443764.87	31-Oct-
28	Town of Delafield	0718	12	NW	Fox River Watershed	Pewaukee Lake					263			1000036	400726.13	2449772.22	
29	Town of Delafield	0718	24	NE	Fox River Watershed	Pewaukee Lake					264			1000033	390510.04	2453104.03	
30	Town of Delafield	0718	35	SW	Fox River Watershed	Pebble Creek					265			1000035	376517.97	2442962.65	
31	Town of Delafield	0718	11	SE	Fox River Watershed	Pewaukee Lake					270			1000034	398540.42	2446369.56	30-Jun-
32	Town of Delafield	0718	11	SE	Fox River Watershed	Pewaukee Lake					271			1000034	397593.22	2446457.8	30-Jun-
33	Town of Delafield	0718	1	SW	Fox River Watershed	Pewaukee Lake					277			1000039, 2528235	402856.18	2449575.54	30-Jun-
34	Town of Delafield	0718	1	SE	Fox River Watershed	Pewaukee Lake					278			1000039, 2528235	402901.89	2451575.74	
35	Town of Delafield	0718	28	SE	Rock River Watershed	Scuppernong Creek					448			3534394	382025.06	2435609.59	
36	Town of Delafield	0718	28	SE	Rock River Watershed	Scuppernong Creek					449			3534394	381361.45	2434954.8	
37	Town of Delafield	0718	25	NW	Fox River Watershed	Pewaukee Lake	########	Igor Vaynb	Welch Hanson Assoc		475	########		1000009	383576.11	2448032.54	31-Oct-
38	Town of Delafield	0718	25	NW	Fox River Watershed	Pewaukee Lake	########	Igor Vaynb	Welch Hanson Assoc		476	########		1000009	384325.78	2448104.56	31-Oct-
39	Town of Delafield	0718	25	NW	Fox River Watershed	Pewaukee Lake	########	Igor Vaynb	Welch Hanson Assoc		477	########		1000009	385362.57	2449693.2	31-Oct-
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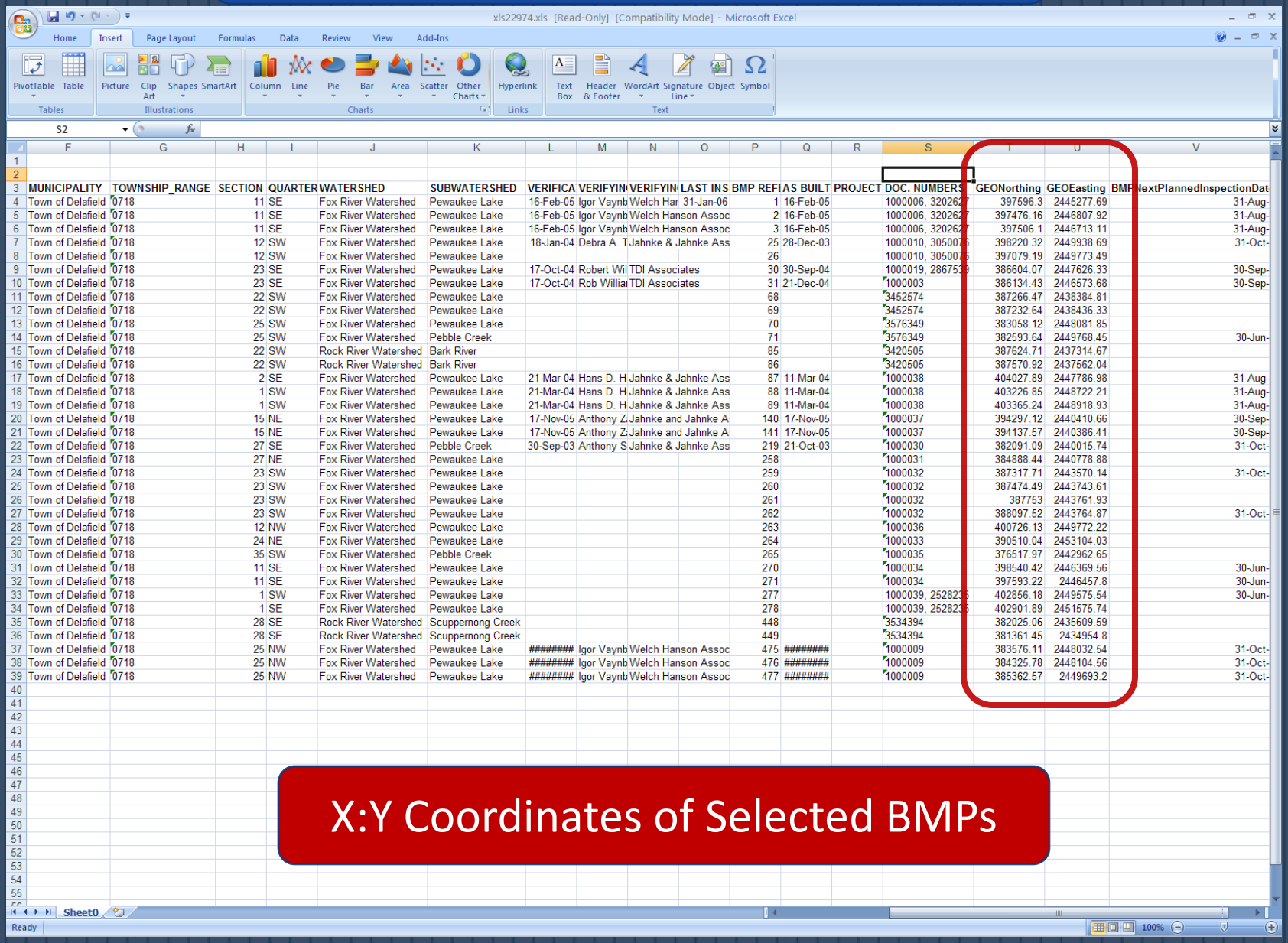
Tabular Output from Selected BMPs

Reports & Output



	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																	
2																	
3	MUNICIPALITY	TOWNSHIP_RANGE	SECTION	QUARTER	WATERSHED	SUBWATERSHED	VERIFICA	VERIFYIN	VERIFYIN	LAST INS	BMP REFI	AS BUILT	PROJECT	DOC. NUMBERS	GEONorthing	GEOEasting	BMP	NextPlannedInspectionDat
4	Town of Delafield	0718	11	SE	Fox River Watershed	Pewaukee Lake	16-Feb-05	Igor Vaynb	Welch Har	31-Jan-06	1	16-Feb-05		1000006, 320262	397596.3	2445277.69		31-Aug-
5	Town of Delafield	0718	11	SE	Fox River Watershed	Pewaukee Lake	16-Feb-05	Igor Vaynb	Welch Hanson Assoc		2	16-Feb-05		1000006, 320262	397476.16	2446807.92		31-Aug-
6	Town of Delafield	0718	11	SE	Fox River Watershed	Pewaukee Lake	16-Feb-05	Igor Vaynb	Welch Hanson Assoc		3	16-Feb-05		1000006, 320262	397506.1	2446713.11		31-Aug-
7	Town of Delafield	0718	12	SW	Fox River Watershed	Pewaukee Lake	18-Jan-04	Debra A. T	Jahnke & Jahnke Ass		25	28-Dec-03		1000010, 305007	398220.32	2449938.69		31-Oct-
8	Town of Delafield	0718	12	SW	Fox River Watershed	Pewaukee Lake					26			1000010, 305007	397079.19	2449773.49		
9	Town of Delafield	0718	23	SE	Fox River Watershed	Pewaukee Lake	17-Oct-04	Robert Wil	TDI Associates		30	30-Sep-04		1000019, 286753	386604.07	2447626.33		30-Sep-
10	Town of Delafield	0718	23	SE	Fox River Watershed	Pewaukee Lake	17-Oct-04	Rob Willia	TDI Associates		31	21-Dec-04		1000003	386134.43	2446573.68		30-Sep-
11	Town of Delafield	0718	22	SW	Fox River Watershed	Pewaukee Lake					68			3452574	387266.47	2438384.81		
12	Town of Delafield	0718	22	SW	Fox River Watershed	Pewaukee Lake					69			3452574	387232.64	2438436.33		
13	Town of Delafield	0718	25	SW	Fox River Watershed	Pewaukee Lake					70			3576349	383058.12	2448081.85		
14	Town of Delafield	0718	25	SW	Fox River Watershed	Pebble Creek					71			3576349	382593.64	2449768.45		30-Jun-
15	Town of Delafield	0718	22	SW	Rock River Watershed	Bark River					85			3420505	387624.71	2437314.67		
16	Town of Delafield	0718	22	SW	Rock River Watershed	Bark River					86			3420505	387570.92	2437562.04		
17	Town of Delafield	0718	2	SE	Fox River Watershed	Pewaukee Lake	21-Mar-04	Hans D. H	Jahnke & Jahnke Ass		87	11-Mar-04		1000038	404027.89	2447786.98		31-Aug-
18	Town of Delafield	0718	1	SW	Fox River Watershed	Pewaukee Lake	21-Mar-04	Hans D. H	Jahnke & Jahnke Ass		88	11-Mar-04		1000038	403226.85	2448722.21		31-Aug-
19	Town of Delafield	0718	1	SW	Fox River Watershed	Pewaukee Lake	21-Mar-04	Hans D. H	Jahnke & Jahnke Ass		89	11-Mar-04		1000038	403365.24	2448918.93		31-Aug-
20	Town of Delafield	0718	15	NE	Fox River Watershed	Pewaukee Lake	17-Nov-05	Anthony Z	Jahnke and Jahnke A		140	17-Nov-05		1000037	394297.12	2440410.66		30-Sep-
21	Town of Delafield	0718	15	NE	Fox River Watershed	Pewaukee Lake	17-Nov-05	Anthony Z	Jahnke and Jahnke A		141	17-Nov-05		1000037	394137.57	2440386.41		30-Sep-
22	Town of Delafield	0718	27	SE	Fox River Watershed	Pebble Creek	30-Sep-03	Anthony S	Jahnke & Jahnke Ass		219	21-Oct-03		1000030	382091.09	2440015.74		31-Oct-
23	Town of Delafield	0718	27	NE	Fox River Watershed	Pewaukee Lake					258			1000031	384888.44	2440778.88		
24	Town of Delafield	0718	23	SW	Fox River Watershed	Pewaukee Lake					259			1000032	387317.71	2443570.14		31-Oct-
25	Town of Delafield	0718	23	SW	Fox River Watershed	Pewaukee Lake					260			1000032	387474.49	2443743.61		
26	Town of Delafield	0718	23	SW	Fox River Watershed	Pewaukee Lake					261			1000032	387753	2443761.93		
27	Town of Delafield	0718	23	SW	Fox River Watershed	Pewaukee Lake					262			1000032	388097.52	2443764.87		31-Oct-
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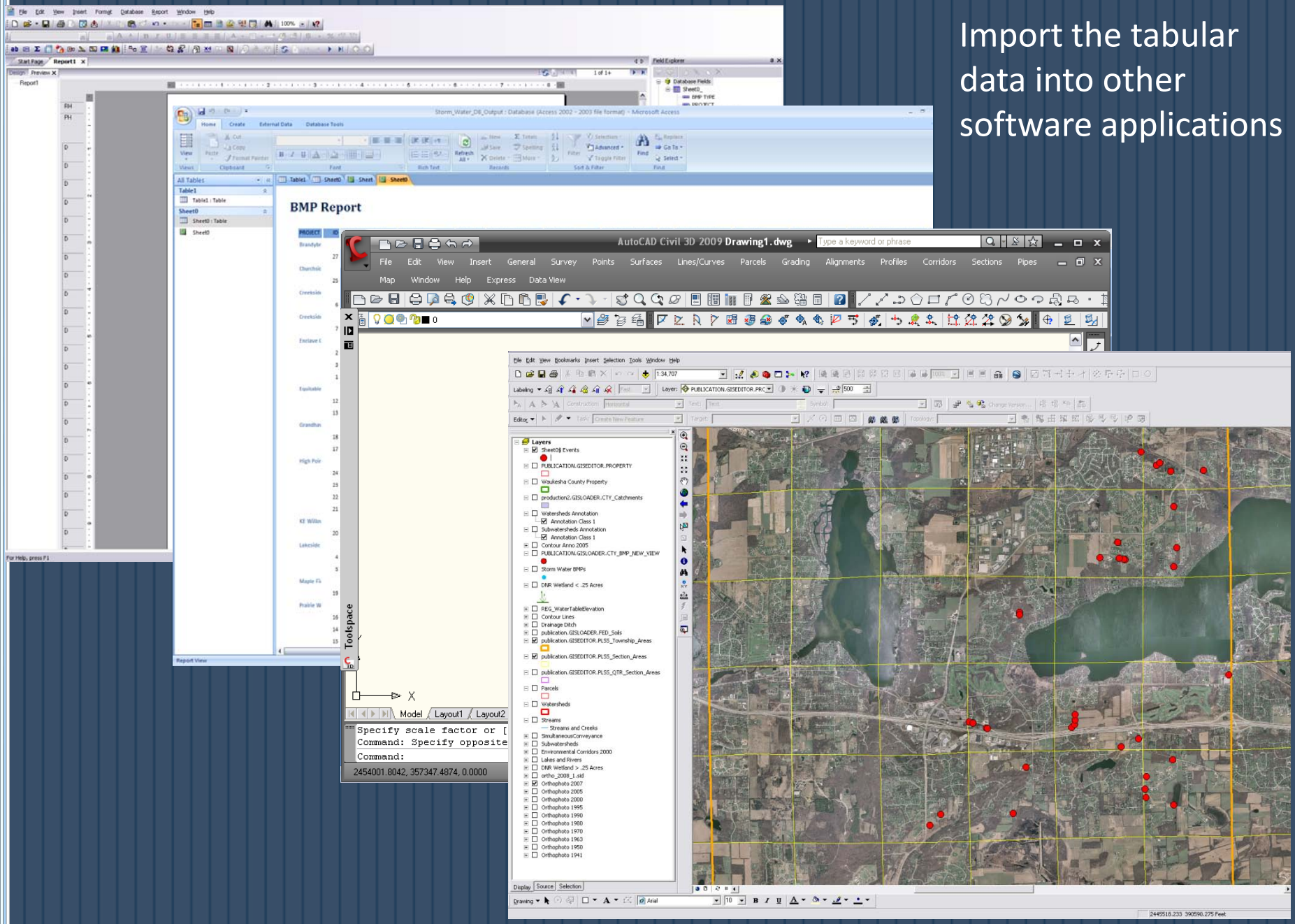
29	Town of Delafield	0718	24	NE	Fox River Watershed	Pewaukee Lake					264			1000033	390510.04	2453104.03		
30	Town of Delafield	0718	35	SW	Fox River Watershed	Pebble Creek					265			1000035	376517.97	2442962.65		
31	Town of Delafield	0718	11	SE	Fox River Watershed	Pewaukee Lake					270			1000034	398540.42	2446369.56		30-Jun-
32	Town of Delafield	0718	11	SE	Fox River Watershed	Pewaukee Lake					271			1000034	397593.22	2446457.8		30-Jun-
33	Town of Delafield	0718	1	SW	Fox River Watershed	Pewaukee Lake					277			1000039, 252823	402856.18	2449575.54		30-Jun-
34	Town of Delafield	0718	1	SE	Fox River Watershed	Pewaukee Lake					278			1000039, 252823	402901.89	2451575.74		
35	Town of Delafield	0718	28	SE	Rock River Watershed	Scuppernong Creek					448			3534394	382025.06	2435609.59		
36	Town of Delafield	0718	28	SE	Rock River Watershed	Scuppernong Creek					449			3534394	381361.45	2434954.8		
37	Town of Delafield	0718	25	NW	Fox River Watershed	Pewaukee Lake	########	Igor Vaynb	Welch Hanson Assoc		475	########		1000009	383576.11	2448032.54		31-Oct-
38	Town of Delafield	0718	25	NW	Fox River Watershed	Pewaukee Lake	########	Igor Vaynb	Welch Hanson Assoc		476	########		1000009	384325.78	2448104.56		31-Oct-
39	Town of Delafield	0718	25	NW	Fox River Watershed	Pewaukee Lake	########	Igor Vaynb	Welch Hanson Assoc		477	########		1000009	385362.57	2449693.2		31-Oct-
40																	

X:Y Coordinates of Selected BMPs

Import the tabular data into other software applications



ESRI ArcMap