

**OVERVIEW**

**INSPECTION ESSENTIALS**

**raSmith**  
CREATIVITY BEYOND ENGINEERING  
 19th Annual Watershed Conference  
 Lambeau Field - March 6, 2018

**QUESTIONS & CONTACT**

**Online ESC Inspections**

**No Paper. No Filing. No Fooling.**

**ONLINE INSPECTIONS**

# Discussion Topics

- Inspection Essentials
- Online Inspections
- PermiTrackESC  
Advantages

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- Online Inspections
- PermiTrackESC Advantages

**WARNING!**  
This presentation contains  
commercial content!

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[www.MyPermiTrack.com](http://www.MyPermiTrack.com)

# Introductions

## My background

- Consultant in Wisconsin since 1978
- Authored PermiTrackESC concept in 2004
- Active PermiTrackESC and PermiTrackMS4 user/ trainer since 2006

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## Your interest?

- MS4 staff? Inspectors?
- Consultants?
- Contractors?
- Regulators?

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**PermiTrack**

# Why do we do Erosion and Sediment Control (ESC) Inspections?

- Identify and limit sources of polluted runoff
- Communicate deficient controls to permitted party
- Comply with permit requirements



# What are the key ingredients to ESC inspection success?

- Consistency, timeliness and accuracy
- Good documentation
- Prompt delivery to responsible parties

# Who should do the inspection?

- **Contractor** (at least if  $> 1$  acre construction site)
- MS4 staff
- Consultant (for contractor or MS4 staff)

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**But Ideally...regular Contractor self-inspections offer greatest opportunity for effective control!**

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# Why record ESC inspections online?

- **Facilitate** inspection process
- **Expedite** delivery and access
- Provide **comprehensive** performance record
- Build helpful inspection **database**

# How is inspection recorded?

- **Live**, on-site at time of inspection
- Addresses **project-specific** inspection items
- Reports **condition, narrative** and **photo**

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# What information is collected in the PermiTrackESC inspection form?

**Inspection Information**

Inspection Date: 03/03/2018

Inspection Time: 11:12 AM

Weather Trends:  [Copy from last](#)  Always

Last Precipitation End Date:

Last Precipitation Amount:

Source of Data:

Temperature:  F

Reason for Inspection:

Action Required:

**Previous Inspection Deficiencies**


**BMP** [View Details](#) [Edit](#) [Delete](#)

**Required**

**Inspected**  on 03/03/2018

**Status** Active

**Condition** Ineffective

**Photo** 

**Comments** One rock tracking pad stabilization of the site. All rock will need to be added to the BMP guard area along with installation of a...

**BMP** **Temporary Rock Construction Entrance** To prevent sediment transport from the site and provide an access point for construction equipment. [View Details](#)

**Required**

**Inspected**   No

**Status** Active

**Condition** Ineffective

**Comments** Rock tracking pad is clogged and needs to be refreshed

**Photo**

**PermiTrack** [Home](#) [New](#) [Add](#) [Edit](#) [Delete](#)

**Project Inspection BMPs**

| Project    | Inspection    | BMP    | Description    |
|------------|---------------|--------|----------------|
| Project 1  | Inspection 1  | BMP 1  | Description 1  |
| Project 2  | Inspection 2  | BMP 2  | Description 2  |
| Project 3  | Inspection 3  | BMP 3  | Description 3  |
| Project 4  | Inspection 4  | BMP 4  | Description 4  |
| Project 5  | Inspection 5  | BMP 5  | Description 5  |
| Project 6  | Inspection 6  | BMP 6  | Description 6  |
| Project 7  | Inspection 7  | BMP 7  | Description 7  |
| Project 8  | Inspection 8  | BMP 8  | Description 8  |
| Project 9  | Inspection 9  | BMP 9  | Description 9  |
| Project 10 | Inspection 10 | BMP 10 | Description 10 |

**PermiTrack** [Home](#) [New](#) [Add](#) [Edit](#) [Delete](#)

**Send Emails**

| Name          | Organization                | Contact Type         | Email                      |
|---------------|-----------------------------|----------------------|----------------------------|
| Gavin Merriam | Town of Zionsville, IN      | Permit Authority     | gmerriam@zionsville-IN.gov |
| Terry Blair   | Courtyard of Zionsville LLC | Permittee            | tblair@courtyard.com       |
| Steve Morris  | ValentHill                  | Authorized Inspector | smorris@valenthill.com     |
| Bobby Knox    | Town of Zionsville, IN      | General              | bknox@zionsville-in.gov    |
| Greg Brooker  | ValentHill                  | Grading Contractor   | gbrooker@valenthill.com    |



## Inspection Information

|                             |  |
|-----------------------------|--|
| Inspection Date *           | <input type="text" value="03/05/2018"/>  |
| Inspection Time             | <input type="text" value="11"/> : <input type="text" value="13"/> <input type="text" value="AM"/>  |
| Weather Trends              | <input type="text"/> <input type="button" value="Copy from last"/> <input type="checkbox"/> Always |
| Last Precipitation End Date | <input type="text"/>   |
| Last Precipitation Amount   | <input type="text"/>   |
| Source of Data              | <input type="text" value="Estimate"/>  |
| Temperature                 | <input type="text"/> F   |
| Reason for Inspection *     | <input type="text" value="Select..."/>   |
| Action Required             | <input type="text" value="N/A"/>   |

## Previous Inspection De

BMP

Required  
Inspected  
Status  
Condition  
Photo

Comments

## Previous Inspection Deficiencies

from last  Always

**BMP** **Site Stabilization** Temporary or permanent cover including seeding, mulching or sod needed within the Minnesota Construction Storm Water (CSW) Permit time tables. Site Stabilization

**Required** Yes

**Inspected** Yes on 12/05/2017

**Status** Active

**Condition** Ineffective

**Photo**



[IMG\\_1480.JPG](#)

**Comments** Site hasn't received final stabilization of the site. All soils will need to be stabilized in the CSW permit time frame along with stockpiles of soils.

BM  
Requir  
Inspect  
Stat  
Condi  
Commer  
Pho

BMP **Temporary Rock Construction Entrance:** To prevent **Construction Entrance** sediment transport from the site and provide an access point for construction equipment.

Required **Yes**

Inspected **Yes** No

Status Active ▼

Condition Ineffective ▼

Comments Rock tracking pad is clogged and needs to be refreshed.

Photo **Choose File** No file chosen

BMP **Temporary Rock Construction Entrance:** To prevent **Construction Entrance** sediment transport from the site and provide an access point for construction equipment.

Required **Yes**

Inspected **Yes** No

Status Active ▼

Condition Ineffective ▼

Comments Rock tracking pad is clogged and needs to be refreshed.

Photo **Choose File** No file chosen



## Project Inspection BMPs

| Best Management Practices | Required | Category                    | BMP                                     | Description  |
|---------------------------|----------|-----------------------------|---|--|
|                           | Yes      | Perimeter Control           | Perimeter Control - Sediment Control    | Bio Logs/Silt Fencing or other appropriate means   |
|                           | Yes      | Perimeter Control           | Perimeter Control - Site Control        | Silt fencing / construction fence to secure construction areas   |
|                           | Yes      | Inlet Protection            | Inlet Protection                        | Standard inlet protection  |
|                           | Yes      | Construction Entrance       | Temporary Construction Entrance (other) | Per Grading Plan / Design Document   |
|                           | Yes      | Debris / Litter             | Construction Debris / Litter            | Control on-site debris and litter, maintain clean work site.   |
|                           | Yes      | Concrete Washout            | Concrete Washout                        | Concrete washout facility present, identified, and properly maintained.  |
|                           | Yes      | Site Stabilization          | Site Stabilization                      | Temporary or permanent cover including seeding, mulching or sod needed within the Minnesota Construction Storm Water (CSW) Permit time tables. |
|                           | Yes      | Entrance Protection         | Sweeping/ Cleaning                      | Sweeping and cleaning of roadway serving construction site.  |
|                           | Yes      | Admin / Site Management     | Inform and Educate Subs                 | Inform and educate any and all sub contractors working on site of the environmental issues of this project.                                    |
|                           | Yes      | Admin / Site Management     | Inspection Reports Available?           | Confirm that weekly and after-rainfall inspections have been completed and reports are accessible for review.                                  |
|                           | Yes      | Outlet / Outfall Protection | Rip Rap                                 | Riprap installed per plan.   |
|                           | Yes      | Ground Cover                | Phased Seeding                          | Phased seeding and/ or restoration of stabilized turf.   |

Projects

Partners

Events

Reports

Settings ▾

Exit Town of Zionsv...

Select

New

View

Edit

Inspections

+ Add Inspection

## Send Emails

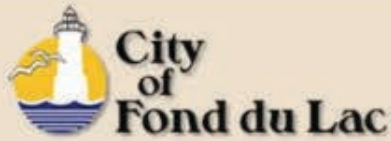
## Project Contacts

| <input type="checkbox"/> | Name           | Organization                  | Contact Type         | Email                       |
|--------------------------|----------------|-------------------------------|----------------------|-----------------------------|
| <input type="checkbox"/> | Gavin Merriman | Town of Zionsville, IN        | Permit Authority     | gmerriman@zionsville-IN.gov |
| <input type="checkbox"/> | Terry Neer     | Courtyards of Zionsville, LLC | Permittee            | lneer@neerdevelopment.com   |
| <input type="checkbox"/> | Steve Morris   | ValentiHeld                   | Authorized Inspector | smorris@valentiheld.com     |
| <input type="checkbox"/> | Bobby Knox     | Town of Zionsville, IN        | General              | bknox@zionsville-in.gov     |
| <input type="checkbox"/> | Craig Broeker  | ValentiHeld                   | Grading Contractor   | cbroeker@valentiheld.com    |

Skip

Send





Active Construction Projects  
Erosion & Sediment  
Control Permit Information

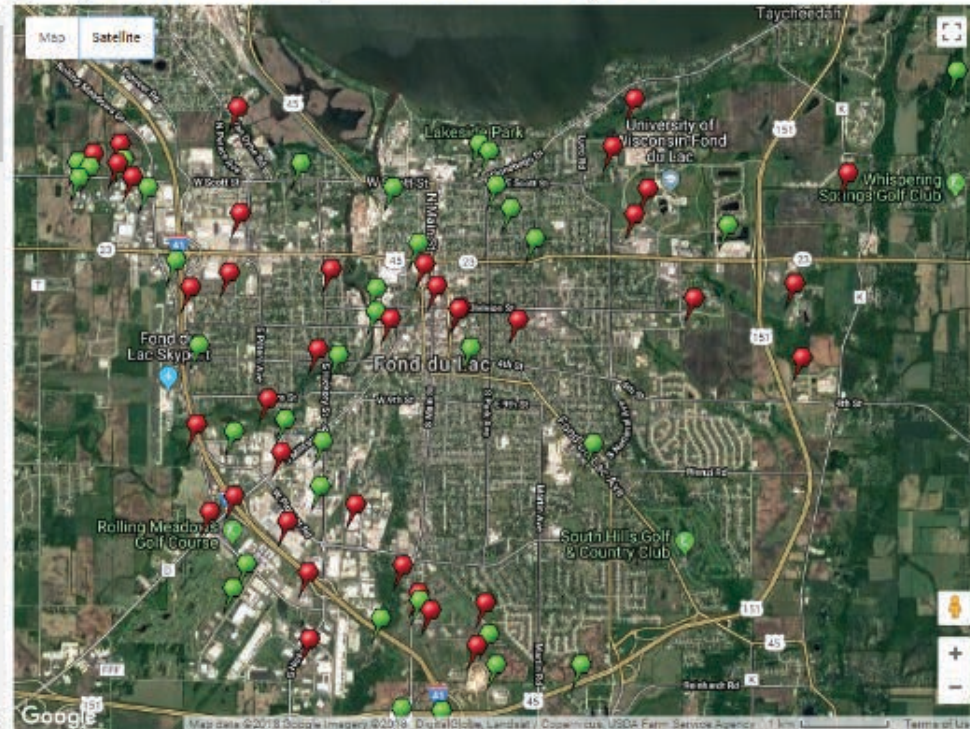
Select a project to view  
information or leave feedback.

City of Fond du Lac, WI

Hide / Show Project List

- 2018 Street & Utility - Boardman Street
- 2018 Street & Utility - East Arnold Street
- 2016 Street & Utility - Everett Street
- 2016 Street & Utility - Melrose Boulevard
- 2016 Street & Utility - North Mazy Street
- 2016 Street & Utility - Tompkins Street
- 2017 Utility & Street - 5th, 7th, Ellis Streets
- 2017 Utility & Street - Military Road
- ABC Supply Co.
- ACH Foam - Fox Ridge
- ACH Foam - Trowbridge
- Agnesian Dialysis, Health Shoppe and Records Building
- Agnesian Surgery Center Expansion
- Alliance Manufacturing
- ANR Pipeline Relocation Fond du Lac River

Passed Passed but Aged Past Initial Due Date Passed but Aged Past Secondary Due Date Failed



Projects

Select New

Filter

|      |         |
|------|---------|
| Edit | Inspire |
| Edit | Inspire |
| Edit | Inspire |
| Edit | Inspire |





**PermiTrack** Erosion Control (ESC) Settings Activity Jeff Mazanec

Projects Partners Events Reports Settings Exit City of Carmel...

Select New Corrective Actions

Filter: Active Apply Choose Columns Status Status + Age

|  | Project Name                                 | Type        | Authorized Inspector                   | Last Final Inspection | Status |
|--|--|-------------|--|-----------------------|--------|
|  | Indiana Spine Group (96)                     | Commercial  | Browning                               | 3/5/18<br>Today       | Active |
|  | Kensington Green (40)                        | Residential | Turtle Pond Partners                   | 3/5/18<br>Today       | Active |
|  | One One Six Apartments Phase 2 (51)          | Commercial  | J.C. Hart Company, Inc.                | 3/5/18<br>Today       | Active |
|  | Shamrock Self-Storage (26)                   | Commercial  | Millstone Management                   | 3/5/18<br>Today       | Active |
|  | Village of West Clay Uptown (15)             | Residential | Onyx and East                          | 3/5/18<br>Today       | Active |
|  | Legacy PUD Retail Development (20)           | Commercial  | Feldman Design Build                   | 3/3/18<br>2 days ago  | Active |
|  | Albany Place (95)                            | Residential | Platinum Properties Management Co, LLC | 3/2/18<br>3 days ago  | Active |
|  | Grannan Grove (115)                          | Residential | Platinum Properties Management Co, LLC | 3/2/18<br>3 days ago  | Active |
|  | Heritage at Spring Mill Section 1 and 2 (31) | Residential | Pittman Partners                       | 3/2/18<br>3 days ago  | Active |
|  | Meadows Section 4 and Ridge Section 6 (90)   | Residential | Platinum Properties Management Co, LLC | 3/2/18<br>3 days ago  | Active |

**PermiTrack**

Projects Partners Events Reports Settings Exit City of Carmel...

Select New Corrective Actions

Filter: Active Apply Choose Columns Status Status + Age

Project Name

- The Grove
- The Prairie Section 1
- The Prairie Section 1
- The Prairie Section 1
- Auman Ad
- Auman Ad

Active

Active

Projects

Partners

Events

Reports

Settings ▾

Exit City of Carmel...

Active

Select

New

Corrective Actions

Active

Project Name

Inspection Date

BMP Name

BMP Category

BMP Comment

Active



The Grove at Legacy 1-2

03/02/2018

Construction Entrance

Construction Entrance

Entrance needs more stone

Active



The Prairie at Legacy Section 1

03/02/2018

Sweeping and Scraping

Construction Entrance

Sweep Streets

Active



The Prairie at Legacy Section 1

03/02/2018

Silt Fence

Perimeter Control

Undercut near the discharge point behind 1501. Down by the porta-let.

Active



The Prairie at Legacy Section 1

03/02/2018

Area Inlet Protection

Inlet Protection

Active



Auman Addition

03/01/2018

Site Photo

Admin / Site Management

Active



Auman Addition

03/01/2018

Concrete Washout Signage

Wash Out Facilities

We use portable washout as needed



Auman Addition

03/01/2018

Concrete Wash Out Area

Wash Out Facilities

See note above, we use portable wash outs



KAR Global Headquarters

03/01/2018

Trash Control

Admin / Site Management



KAR Global Headquarters

03/01/2018

Permits and SWPPP Contact Posted

Admin / Site Management



Shoshone Drive

03/01/2018

Sweeping and Scraping

Construction Entrance

sweep streets

Active Construction Projects

Select project name or pin to view project information or leave feedback.  
Questions? Call 507-328-2431

**City of Rochester Minnesota** *First Class City, First Class Service*

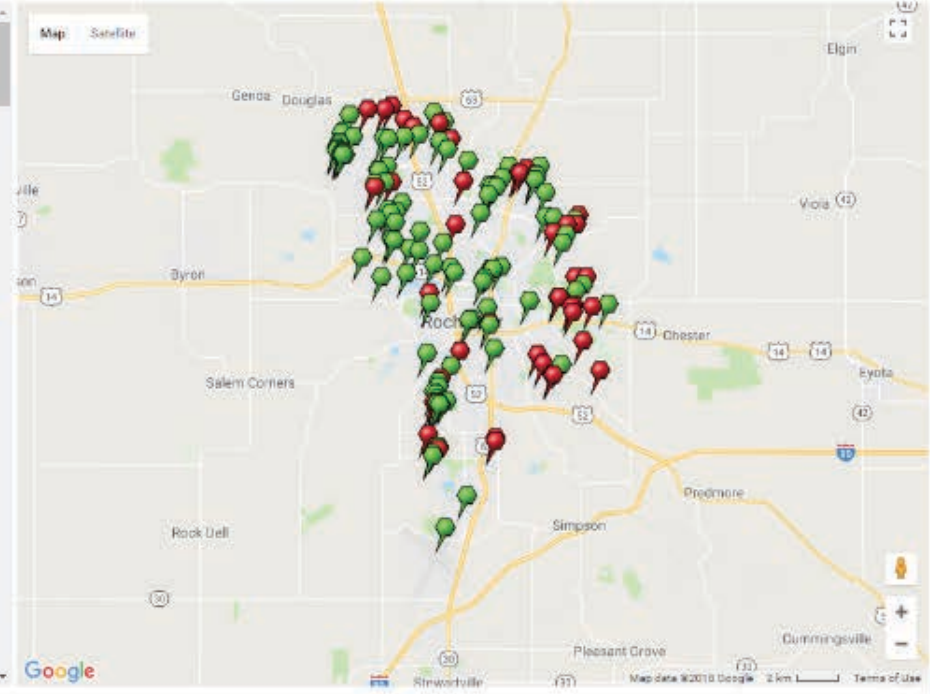
City of Rochester MN Projects

Hide / Show Project List

-  [19 North Subdivision](#)
-  [2227 SW BRANDWOOD RD](#)
-  [2298 SW PHOENIX RD](#)
-  [3278 SW CASSIE LN](#)
-  [3758 NE CAMEO PL](#)
-  [4941 NW BISHOP LN](#)
-  [5590 NW KING ARTHUR RD](#)
-  [Atlas 2nd St Development](#)
-  [Allen 2nd Subdivision](#)
-  [Alpha Parkway Development](#)
-  [Alpha Parkway Subdivision](#)
-  [Altra Federal Credit Union](#)
-  [BADGER HILLS 3RD \(4565 NW 35 ST\)](#)
-  [BIWOO ESTATES \(2515 SW CREST LN\)](#)
-  [BOULDER RIDGE 5TH \(2350 NW GRANITE CIR\)](#)

1 2

 Passed 
  Passed but Aged Past Initial Due Date 
  Passed but Aged Past Secondary Due Date 
  Failed



# Value Added Tools

- Automatic overdue inspection **reminder emails**
- Project-specific inspection frequency
- Automated event notifications
- Fully editable BMP library
- Detailed records and reports

# Greatest MS4 user value?

When an MS4 **REQUIRES** contractors to record self-inspections online:

- Inspection reports are **immediately available**
- Accountability increases =  
    **"What gets measured gets done"**
- **Extends MS4 staff** effectiveness
- Greater diligence on ESC control results in cleaner construction sites

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# *Questions?*

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Jeff Mazanec, PE  
Sr. Consultant

**raSmith**

100 W Lawrence St., Suite 412  
Appleton, WI 54911  
(920) 843-5734  
[Jeff.Mazanec@raSmith.com](mailto:Jeff.Mazanec@raSmith.com)

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