A Stormwater Data Software Solution for MS4 Permittees

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MS4Front’s History

- 2010: Conversations with stormwater managers
- 2011: Development started
- 2012: First subscribers
- 2013-2019: Users across the country – >18 states
- 2019-2020: Program Redevelopment
What is MS4Front?

Cloud Database
Store Data Centered around MS4 Permit Requirements

Reporting Tools

Workflow Automation

Mobile with Collector & Survey123 for ArcGIS
Choose and build each “SWMP Component” based on your needs

- Public Involvement and Participation
- Controlling Runoff from New Development and Redevelopment
- Stormwater Planning
- …..
<table>
<thead>
<tr>
<th>Control Measure</th>
<th>MS4Front Capability Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S5.A.2 - SWMP</td>
<td>Identify planned and completed activities and associated schedules</td>
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<tr>
<td>S5.C.2 - Public Education and Outreach</td>
<td>Identify planned and track completed PEO activities over permit duration.</td>
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<tr>
<td>S5.C.3 - Public Involvement and Participation</td>
<td>Track ongoing opportunities</td>
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<tr>
<td>S5.C.4 - MS4 Mapping and Documentation</td>
<td>Through built-in mapping capabilities and integration with external GIS systems, MS4Front supports mapping and documentation requirements.</td>
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<tr>
<td>S5.C.5 – IDDE</td>
<td>Track the reporting and correction/removing of illicit connections, spills, etc. during the permit duration. Export data directly to Appendix 12 specifications.</td>
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</tbody>
</table>
| S5.C.6 - Controlling Runoff form New Development, Redevelopment and Construction Sites | • Document inventory, plan review, inspections and enforcements (Warnings, NOVs, etc.) for construction sites.  
• Document adequacy of permanent treatment facility design and proper installation and ongoing maintenance. |
| S5.C.7 - Operations and Maintenance (MS4 Owned & Regulated by the MS4) | • Document inspection and maintenance activities that follow standard  
• Track inspections, warning letters, NOV’s, etc. on facilities regulated by the MS4 |
| S5.C.8 - Source Control Program for Existing Development | • Develop and maintain list of Sources  
• Track education efforts  
• Track normal and complaint inspections and enforcement actions |
A 'Page' in MS4Front defines a collection of data records often to directly meet a specific requirement.

**Parent Section** - A 'Parent Section' is the first dataset defined within a Page.

**Child Section** - 'Child Sections' are datasets related to the Parent Section records on a Page.

**Forms** - A 'Form' is a list of database fields that define the data stored in each section.
Construction Stormwater

- **Sites**
  - Site ID
  - Site Name
  - Address
  - Type
  - Status
  - Etc.

- **Contacts**
  - Contact Name
  - Phone
  - Email
  - Address
  - Etc.

- **Plan Reviews**
  - Date
  - Etc.

- **Inspections**
  - Date
  - Inspector
  - Condition
  - Documentation Posted
  - Correction Actions Req’d

- **Enforcements**
  - Date
  - Inspector
  - Etc.

- **Permanent BMPs**
  - Date
  - Type
  - Size
  - Etc.

S5.C.6 - Controlling Runoff from New Development, Redevelopment and Constructions
S5.C.8 – Source Control Program for Existing Development

Source Control

- Institutional, Commercial and Industrial Sites*
- Contacts
- Inventory Review
- Inspections
- Information Education
- Enforcements

- Site Details
- Contact Details
- Review Checklist
- Windshield
- Routine
- Complaint
- Form Name
- History

- Contact Name
- Phone
- Email
- Address
- Etc.
Mobile Data Collection

Collector and Survey123 for ArcGIS Integration:

1. MS4Front data is synced with a Feature Service in ArcGIS Online
2. Field inspections launched from Collector for ArcGIS
3. Data input into a Survey123 Form
4. Data is saved to MS4Front
Beyond a Mobile App

Convenient Search and Query Tools

Display Results in Map or Table Views
Custom Reports

NPDES
National Pollutant Discharge Elimination System

EROSION AND SEDIMENTATION CONTROL
CONSTRUCTION INSPECTION FORM

— has been permitted by the State of —— through the Federal Clean Water Act to monitor and govern all discharges to surface water Municipal Separate Storm Sewer System (MS4), including stopping pollution from industrial and construction activities.

Site Name:

AKA: ___________ Inspection Date: ___________ Site Number: FN- ___________

Operator Name: ___________ Responsible Authority Name: ___________

Project Contact Name: ___________ FDEP Permit Number ___________

Property Owner Name: ___________ Start Time: ___________ End Time: ___________

Address: ___________ Municipality: ___________ Zip Code ___________

Latitude/Longitude (DD): ___________ Parcel ID (STR): ___________

Last 24 hrs. Weather: ___________ Inspection Type: ___________

Receiving Water Name: ___________ Receiving Water Type: ___________

1. Has coverage been obtained under NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities (CGP) and is the Notice of Intent posed on site?
   (Permit coverage is required for disturbances of one or more acres of land, or sites that disturb less than one acre of land but are part of a common plan of development for sale. Refer to 62-621.300(4)(a), —— Administrative Code (X.A.C.))

   Comments:
Next Steps

1. Questions
2. Detailed Demonstration
3. Trial Account
4. Quote

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