



# Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

### for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

*This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.*

Report Period: From March, 2011 To March, 2012

Permit No. ILR40 0227

#### MS4 OPERATOR INFORMATION: (As it appears on the current permit)

Name: VILLAGE OF ADDISON Mailing Address 1: 1 FRIENDSHIP PLAZA  
Mailing Address 2: \_\_\_\_\_ County: DuPage  
City: ADDISON State: IL Zip: 60101 Telephone: 630-543-4100  
Contact Person: RUDOLFO ESPEDIDO Email Address: REspedido@addison-il.org  
(Person responsible for Annual Report)

#### Name(s) of governmental entity(ies) in which MS4 is located: (As it appears on the current permit)

DUPAGE COUNTY - COPERMITTEE

#### THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

- |  |                          |   |                          |
|--|--------------------------|---|--------------------------|
| 1. Public Education and Outreach             | <input type="checkbox"/> | 4. Construction Site Runoff Control       | <input type="checkbox"/> |
| 2. Public Participation/Involvement          | <input type="checkbox"/> | 5. Post-Construction Runoff Control       | <input type="checkbox"/> |
| 3. Illicit Discharge Detection & Elimination | <input type="checkbox"/> | 6. Pollution Prevention/Good Housekeeping | <input type="checkbox"/> |

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle ( including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

Owner Signature:

Rudolfo M Espedido  
Printed Name:

5/22/12  
Date:

Village Engineer  
Title:

EMAIL COMPLETED FORM TO: [epa.ms4annualinsp@illinois.gov](mailto:epa.ms4annualinsp@illinois.gov)

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WATER POLLUTION CONTROL  
COMPLIANCE ASSURANCE SECTION #19  
1021 NORTH GRAND AVENUE EAST  
POST OFFICE BOX 19276  
SPRINGFIELD, ILLINOIS 62794-9276

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

## Village of Addison Annual Report Year 9

### A. Public Education and Outreach

- A.1 Distributed Paper Material
- A.2 Speaking Engagement
- A.3 Public Service Announcement
- A.4 Community Event
- A.5 Classroom Education Material
- A.6 Other Public Education

### B. Public Participation/Involvement

- B.1 Public Panel
- B.2 Educational Volunteer
- B.3 Stakeholder Meeting
- B.4 Public Hearing
- B.5 Volunteer Monitoring
- B.6 Program Coordination
- B.7 Other Public Involvement

### C. Illicit Discharge Detection and Elimination

- C.1 Storm Sewer Map Preparation
- C.2 Regulatory Control Program
- C.3 Detection/Elimination Prioritization Plan
- C.4 Illicit Discharge Tracing Procedures
- C.5 Illicit Source Removal Procedures
- C.6 Program Evaluation and Assessment
- C.7 Visual Dry Weather Screening
- C.8 Pollutant Field Testing
- C.9 Public Notification
- C.10 Other Illicit Discharge Controls

### D. Construction Site Runoff Control

- D.1 Regulatory Control Program
- D.2 Erosion and Sediment Control BMPs
- D.3 Other Waste Control Program
- D.4 Site Plan Review Procedures
- D.5 Public Information Handling Procedures
- D.6 Site Inspection/Enforcement Procedures
- D.7 Other Construction Site Runoff Controls

### E. Post-Construction Runoff Control

- E.1 Community Control Strategy
- E.2 Regulatory Control Program
- E.3 Long Term O&M Procedures
- E.4 Pre-Const Review of BMP Designs
- E.5 Site Inspections during Construction
- E.6 Post-Construction Inspections
- E.7 Other Post-Const Runoff Controls

### F. Pollution Prevention/Good Housekeeping

- F.1 Employee Training Program
- F.2 Inspection and Maintenance Program
- F.3 Municipal Operations Storm Water Control
- F.4 Municipal Operations Waste Disposal
- F.5 Flood Management/Assess Guidelines
- F.6 Other Municipal Operations Control

**SECTION B: Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified Best Management Practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.**

**A. Public Education and Outreach**

- A.1 Distributed Paper Material**
- A.2 Speaking Engagement**
- A.3 Public Service Announcement**
- A.4 Community Event**
- A.5 Classroom Education Material**
- A.6 Other Public Education**

**ADDITIONAL VILLAGE COMPLETED TASKS:**

The Village of Addison continues to distribute our own educational brochures. They are titled, “Guide to Storm Water Management,” “Guide to Protecting Our Water Quality,” “Guide to Best Management Practices,” and “Guide to Drainage Easements.” Additional brochures related to storm water management and water quality are currently being developed. Materials related to recycling, storm sewer stenciling, and dumping are distributed.

The Village of Addison sent an informational FAQ sheet to homeowners along drainage swales in May of 2010 regarding proper maintenance and landscaping. The sheet provided instruction on maintaining stream banks, preventing blockages, and controlling erosion.

**B. Public Participation/Involvement**

- B.1 Public Panel**
- B.2 Educational Volunteer**
- B.3 Stakeholder Meeting**
- B.4 Public Hearing**
- B.5 Volunteer Monitoring**
- B.6 Program Coordination**
- B.7 Other Public Involvement**

**ADDITIONAL VILLAGE COMPLETED TASKS:**

The Village of Addison has a regular attendee of the Municipal Engineer’s Meeting Group and has continued to assist in crafting Countywide ordinance revisions pertaining to protecting water quality with revised best management practice and illicit detection and discharge elimination requirements. The Village in conjunction with the rest of the group will continue its efforts on Water Quality improvement such as NPDES Phase II requirements, Soil and Erosion Control and Floodplain Ordinance revisions, Best Management Practices Manual and NPDES Outfall mapping, and Illicit Discharge and Detection Elimination.

The Village also continues to attend The DuPage River Salt Creek Workgroup (DRSCW) regular meetings, fund its annual fee, and offer available expertise as necessary.

The Village of Addison, in conjunction with the Conservation Foundation, coordinated two local River Sweep events in Westwood Creek and Salt Creek. A group of residents cleaned a section of Salt Creek on May 21, 2011 during the County-wide River Sweep event. Secondly, on August 8, 2011, the local Boy Scout Troop #410 from Addison provided 10 volunteers and cleaned a section of Westwood Creek from Addison Rd. to Rozanne Dr. The Village of Addison assisted with event coordination, and disposal of all materials. A combined total of 8 cubic yards of debris was removed during the two events.

Water monitoring kits were distributed to science students at Addison Trail High School. Sampling was initiated at several key outfalls. The students will continue to collect and analyze samples in the fall and spring of each year as time permits. There were no unusual concentrations found during the reporting period.

**C. Illicit Discharge Detection and Elimination**

- C.1 Storm Sewer Map Preparation**
- C.2 Regulatory Control Program**
- C.3 Detection/Elimination Prioritization Plan**
- C.4 Illicit Discharge Tracing Procedures**
- C.5 Illicit Source Removal Procedures**
- C.6 Program Evaluation and Assessment**
- C.7 Visual Dry Weather Screening**
- C.8 Pollutant Field Testing**
- C.9 Public Notification**
- C.10 Other Illicit Discharge Controls**

**ADDITIONAL VILLAGE COMPLETED TASKS:**

The Village of Addison continues to revise its storm sewer atlases and provide updates on its GIS. Creek outfalls have been located with GPS equipment and have been inputted into the GIS.

The development of an illicit discharge detection and elimination (IDDE) program has been completed and a local IDDE manual has been submitted with the 2008 Notice of Intent. The IDDE program was fully implemented in March 2008. The IDDE program includes a prioritization plan, outfall visual screening, monitoring program, tracing, enforcement, and reporting.

The Village of Addison had identified 58 outfalls, and each was visually inspected and the conditions recorded during 2011. All outfalls were normal, and records of the inspections are available for review in our office.

There were several investigations performed over the past year related to pollution in the storm sewer system and local streams:

- 1) In May a contractor working on Factory Rd. was performing fleet washing into the Village's storm sewer system. The discharge was ceased and a warning was issued.
- 2) In May an auto detail shop on Lake St. was found discharging wash water to the storm sewer system behind the property. The discharge was ceased and a warning was issued.
- 3) In October a diesel spill occurred into the storm sewer system at Anesco Corporation (1515 W. Fullerton Av). The spill was contained downstream, and the site was remediated so that no materials reached local waterways.
- 4) An investigation of leaking chemical drums and improper outside storage was performed in cooperation with the IEPA water and land divisions. The company took corrective action and cleaned the site (138 W. Factory Rd). Enforcement was handled by the state EPA.
- 5) The Village continued sampling to identify the source of elevated Fecal-Coliform in the Diversey Avenue storm sewer system.

Finally, the Village also performed periodic grab sampling and analysis at 18 of the 58 outfall points. A total of 21 screening samples were collected and 91 different field analyses were performed. Parameters tested included Metals, D.O., Petroleum Hydrocarbons, Temperature, Ammonia, Nitrate, Phosphate and pH. A summary of the monitoring data collected is attached in Section C. There were no excursions noted above water quality standards.

**D. Construction Site Runoff Control**

- D.1 Regulatory Control Program**
- D.2 Erosion and Sediment Control BMPs**
- D.3 Other Waste Control Program**
- D.4 Site Plan Review Procedures**
- D.5 Public Information Handling Procedures**
- D.6 Site Inspection/Enforcement Procedures**
- D.7 Other Construction Site Runoff Controls**

**ADDITIONAL VILLAGE COMPLETED TASKS:**

Village of Addison staff continues to be a regular attendee of the Municipal Engineer's Meeting Group and continues to assist in crafting Countywide ordinance revisions pertaining to protecting water quality with revised Best Management Practices and Illicit Discharge and Detection Elimination. The Village in conjunction with the rest of the group will continue its efforts on Water Quality improvement such as NPDES Phase II requirements, Soil and Erosion Control and Floodplain Ordinance revisions, Best Management Practices Manual and NPDES Outfall mapping.

Site plan reviews greater than one acre and under NPDES Phase II are not only required to meet the County and the Village's ordinance, but also reviewed to satisfy many state requirements of the state ILR10 permit. These sites are required to pass an erosion and sediment controls inspection prior to disturbing the earth and are checked regularly by the engineering inspector.

Site plan reviews less than one acre are also required to meet the County and the Village's ordinance. Those permits receive attached details indicating how erosion and sediment controls

are to be installed for small sites. Small sites are required to pass erosion and sediment controls inspection prior to disturbing the earth and are checked by building inspectors during most of the construction.

The Village issued Sixteen (16) stormwater permits during the 2011 reporting year.

**E. Post-Construction Runoff Control**

- E.1 Community Control Strategy**
- E.2 Regulatory Control Program**
- E.3 Long Term O&M Procedures**
- E.4 Pre-Const Review of BMP Designs**
- E.5 Site Inspections during Construction**
- E.6 Post-Construction Inspections**
- E.7 Other Post-Const Runoff Controls**

**ADDITIONAL VILLAGE COMPLETED TASKS:**

Village of Addison staff is a regular attendee of the Municipal Engineer's Meeting Group and continues to assist in crafting Countywide ordinance revisions pertaining to protecting water quality with Post Construction Best Management Practices. The Village in conjunction with the rest of the group will continue its efforts on Water Quality improvement such as NPDES Phase II requirements, Soil and Erosion Control and Floodplain Ordinance revisions, Best Management Practices Manual and NPDES Outfall mapping.

Site plan reviews greater than one acre and under NPDES Phase II are required not only to meet the County and the Village's ordinance, but also reviewed to satisfy many state requirements of the state ILR10 permit.

The BMP manual developed by a private consultant for the Countywide ordinance was adopted in 2008. The manual includes educational narratives, a BMP selection guidance, and technical specifications that appropriately reflect the county's urban setting, winter season, poorly draining soils, and flat topography. The Village has since required applicable sites to incorporate BMP's into the proposed plans. References are provided to developers for implementation of permanent, post-construction BMP's.

Before accepting a completed project the Village requires record drawings to be approved and an environmental report, as necessary, be submitted. Final inspections are also performed to determine whether installed structures perform as designed and within Village parameters. Small sites also are required to provide post construction erosion and sediment controls such as sod or blanket in the parkway and swales prior to occupancy.

**F. Pollution Prevention/Good Housekeeping**

- F.1 Employee Training Program**
- F.2 Inspection and Maintenance Program**
- F.3 Municipal Operations Storm Water Control**
- F.4 Municipal Operations Waste Disposal**

**F.5 Flood Management/Assess Guidelines**

**F.6 Other Municipal Operations Controls**

**ADDITIONAL VILLAGE COMPLETED TASKS:**

Catch basin cleaning continues approximately every four years for storm sewer systems and more or less every year for combined sewer systems. Street sweeping continues on a regular basis with all streets swept at least two times a year.

The Village has also completed development of a “Storm Water Pollution Prevention and Good Housekeeping Manual” for the Public Works Department. The manual identifies 8 essential municipal operations with potential storm water impact, including:

- 1) Fleet cleaning and maintenance
- 2) Curb inlet and catch basin cleaning
- 3) Street sweeping and debris disposal
- 4) Salt storage and loading
- 5) Salt usage
- 6) Spoils piles storage
- 7) Spill Prevention
- 8) Herbicide/Pesticide use and management

Best management Practices and measurable goals have been created for each of the 8 above operations. A copy of the manual has been submitted with the 2008 Notice of Intent for the Village. A short training session was provided to all division foremen during distribution of the manual.

To ensure proper implementation of “Good Housekeeping Operations” an in-house training program has also been developed and will be conducted at least once annually.

A summary of the reportable data for several of the municipal activities is as follows on the following page:

**ANNUAL MS4 REPORT – MUNICIPAL OPERATIONS REPORT**  
**TIME PERIOD: MARCH 1, 2011 TO MARCH 1, 2012**

Street Sweeping (Minimum Control F.3):

3,627 Curb miles cleaned  
360 Tons of debris removed from streets

Salt Usage (Minimum Control F.3):

1,045 Tons of salt used  
3 Number of snow events (2" or greater)  
12 Number of ice events  
87.1 Tons of salt used per event

Sewer Catch Basin Cleaning (Minimum Control F.3):

529 # of Storm Sewer Catch Basins/Inlets cleaned and pumped (out of approx. 2200)  
145 # of Combined Sewer Catch Basins/Inlets cleaned and pumped (out of approx. 160)

Training (Minimum Control F.1):

√ Completed annual Good Housekeeping/P2 training with all Public Works employees (Date: 2/28/12)  
√ Completed annual Salt Usage/Salt Loading training (Date: 10/31/11)  
√ Completed initial and new employee training on Job Task Pollution Prevention



**SECTION C: Attach results of information collected and analyzed, including monitoring data, if any, during the reporting period.**

See Attached Data.

**SECTION D: Attach a summary of the stormwater activities you plan to undertake during the next reporting cycle (including an implementation schedule).**

**A. Public Education and Outreach**

The Village, as time and knowledge allows, will continue to develop educational handouts related to storm water discharges and protecting and maintaining water quality discharged into the waterways. Community events will be offered to local groups from time to time.

The Village of Addison sent an informational FAQ sheet to homeowners along drainage swales in May of 2010 regarding proper maintenance and landscaping. The sheet provided instruction on maintaining stream banks, preventing blockages, and controlling erosion.

**B. Public Participation/Involvement**

The Village of Addison, in conjunction with the Conservation Foundation, coordinated two local River Sweep events in Westwood Creek and Salt Creek. A group of residents cleaned a section of Salt Creek on May 21, 2011 during the County-wide River Sweep event. Secondly, on August 8, 2011, the local Boy Scout Troop #410 from Addison provided 10 volunteers and cleaned a section of Westwood Creek from Addison Rd. to Rozanne Dr. The Village of Addison assisted with event coordination, and disposal of all materials. A combined total of 8 cubic yards of debris was removed during the two events.

Water monitoring kits were distributed to science students at Addison Trail High School. Sampling was initiated at several key outfalls. The students will continue to collect and analyze samples in the fall and spring of each year as time permits. There were no unusual concentrations found during the reporting period.

The Village will continue to meet and participate in the Municipal Engineer's Meeting Group and the DuPage County Water Quality Stakeholder Committee. Both groups meet on a regular basis to review and discuss program development as it pertains to storm water discharges and water quality. Discussions will include best management practices, illicit discharge detection and elimination, or other relevant discussions.

In the next reporting year, the BMP manual revision to the Ordinance and Technical Guidance Document to the Stormwater Management Committee will continue to be implemented.

### **C. Illicit Discharge Detection and Elimination**

The development of an illicit discharge detection and elimination (IDDE) program has been completed and a local IDDE manual has been submitted with the 2008 Notice of Intent. The IDDE program was fully implemented in March 2008. The IDDE program includes a prioritization plan, outfall screening/monitoring program, tracing, enforcement, and reporting.

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There were several investigations performed over the past year related to pollution in the storm sewer system and local streams:

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### **D. Construction Site Runoff Control**

The BMP related Ordinance changes have been adopted and Village staff have attended training workshops as offered by the DuPage County Water Quality Education Program. The Village will continue to conduct a minimum of two inspections for construction runoff site control per storm water permit issued.

### **E. Post-Construction Runoff Control**

The Village will continue to use the Water Quality Stakeholder committee and Municipal Engineers Meeting Group to evaluate problematic areas of the post construction BMPs being utilized in DuPage County and make recommendations where necessary.

### **F. Pollution Prevention/Good Housekeeping**

A training session on storm water pollution prevention was held with all Public Works employees on February 28, 2012. The training covered all aspects of municipal operations, and was divided by division tasks. A copy of the presentation is attached.

**SECTION E: The 40 co-permittees listed in the cover letter rely on DuPage County to satisfy some of their permit obligations as applicable.**

**SECTION F: Attach a list of construction projects that your entity has paid for during the reporting period.**

**Village of Addison (ILR 40 MS4 Permit # 0227)**

Location/Project Name	Category	Start Date – End Date
<b>Storm Sewer Improvements – Various</b>	Utility	Apr '11 – Nov '11
<b>Motor Fuel Tax - Resurfacing</b>	Transportation	Apr '11 – Aug '11

## **ATTACHMENT**

## **SECTIONS C & F**

## **ATTACHMENT**

### **SECTION C**

**Results of information collected and analyzed, including monitoring**

Illinois Environmental Protection Agency – Annual Facility Inspection Report – NPDES Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4)  
 April 2011 – March 2012  
 Page 13 of 43

LOCATION: **48" @ ADDISON & LORRAINE**

<u>DATE</u>	<u>PHYS. COND.*</u>	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>AMONIA</u>	<u>PETROL. HYDRO.</u>	<u>PHOSOPH. (Mg/L)</u>	<u>LAST 24 HRS</u>	<u>LAST 24 HRS</u>	<u>LAST 24 HRS</u>	<u>LAST 48 HRS</u>
											<u>HIGH TEMP.</u>	<u>LOW TEMP.</u>	<u>PRECIP.</u>	<u>PERCIP.</u>
7/29/11	N	10:35 AM	7.54	24.5	7.2	0.02	0.01			2.26			1.01	1.79
9/28/11	N	09:40AM	7.39	17.9	8.1					2.18	55.0	53.0	0.26	1.23
<b>MAX</b>			7.54	24.50	8.06	0.02	0.01			2.26	55.00	53.00	1.01	1.79
<b>AVG.</b>			7.47	21.20	7.62	0.02	0.01			2.22	55.00	53.00	0.64	1.51
<b>MIN</b>			7.39	17.90	7.18	0.02	0.01			2.18	55.00	53.00	0.26	1.23

\* N- Normal    S- Sheen    F-Foam    C- Colored

LOCATION: **REPUBLI CURVE**

<u>DATE</u>	<u>PHYS. COND.*</u>	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>PHOS (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>PETROL. HYDRO.</u>	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>
7/7/11	N	10:45 AM	6.42	19.7	4.9	0.12	1.76			86	65	0.01	0.01
10/10/11	N	9:50 AM	6.68	20.8	5.3					77	52	0.00	0.00
<b>MAX</b>			6.68	20.80	5.33	0.12	1.76			85.70	65.30	0.01	0.01
<b>AVG.</b>			6.55	20.25	5.11	0.12	1.76			81.10	58.75	0.01	0.01
<b>MIN</b>			6.42	19.70	4.88	0.12	1.76			76.50	52.20	0.00	0.00

\* N- Normal    S- Sheen    F-Foam    C- Colored

LOCATION: **54" @ ADDISON & ARMITAGE**

<u>DATE</u>	<u>PHYS. COND.*</u>	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>PHOSPH. (Mg/L)</u>	<u>PETROL. HYDRO.</u>	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>
7/29/11	N	10:15 AM	7.62	23.5	7.2	0.00	0.03	3.75		87.0	73.0	1.01	1.79
9/28/11	N	9:25 AM	7.63	16.8	8.4			1.12		55	53	0.26	1.23
<b>MAX</b>			7.63	23.50	8.40	0.00	0.03	3.75		87.00	73.00	1.01	1.79
<b>AVG.</b>			7.63	20.15	7.78	0.00	0.03	2.44		71.00	63.00	1.01	1.51
<b>MIN</b>			7.62	16.80	7.16	0.00	0.03	1.12		55.00	53.00	1.01	1.23

\* N- Normal    S- Sheen    F-Foam    C- Colored



LOCATION: **24" @ LAKE STREET**

<u>DATE</u>	<u>PHYS. COND.*</u>	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>PETROL. HYDRO.</u>	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>
9/28/11	NS	10:45 AM							55	53	0.26	1.23
<b>MAX</b>									55.00	53.00	0.26	1.23
<b>AVG.</b>									55.00	53.00	0.26	1.23
<b>MIN</b>									55.00	53.00	0.26	1.23

\* N- Normal    S- Sheen    F-Foam    C- Colored

NS NO FLOW

LOCATION: **LAKE MANOR POND**

<u>DATE</u>	<u>PHYS. COND.</u> *	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY.</u> (Mg/L)	<u>COPPER</u> (Mg/L)	<u>ZINC</u> (Mg/L)	<u>PHOSPH</u> :	<u>Ammoni</u> a (Mg/L)	<u>PET. HYDR</u> :	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>
6/9/11	N	1:25 AM	7.69	21.6	5.9	0.16	0.02				62	51	0.14	1.01
7/20/11	N	1:20 AM	8.73	33.3	11.5						100	75	0.00	0.00
8/2/11	S	9:25 AM	8.75	29.8	9.8	0.14	0.01			0.53	92	80	0.00	0.00
8/8/11	N	9:25 AM	7.40	25.1	5.4	0.00	0.04	0.05			82	64	3.47	7.39
<b>MAX</b>			8.75	33.30	11.45	0.16	0.04	0.05		0.53	99.70	79.60	3.47	7.39
<b>AVG.</b>			8.14	27.45	8.13	0.10	0.02	0.05		0.53	84.05	67.25	0.90	2.10
<b>MIN</b>			7.40	21.58	5.39	0.00	0.01	0.05		0.53	62.40	50.80	0.00	0.00

\* N- Normal    S- Sheen    F-Foam    C- Colored

LOCATION: **36" @ PALMER (AJL PLANT)**

<u>DATE</u>	<u>PHYS. COND.*</u>	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>PETROL. HYDRO.</u>	<u>LAST 24 HRS</u>	<u>LAST 24 HRS</u>	<u>LAST 24 HRS</u>	<u>LAST 48 HRS</u>
									<u>HIGH TEMP.</u>	<u>LOW TEMP.</u>	<u>PRECIP.</u>	<u>PERCIP.</u>
7/29/11	N	9:15 AM	7.11	24.5	4.9	0.00	0.00		88	73	1.01	1.79
9/28/11	NS	9:55 AM							55	53	0.26	1.23

<b>MAX</b>			7.1	24.50	4.91	0.00	0.00		87.60	73.30	1.01	1.79
<b>AVG.</b>			7.1	24.50	4.91	0.00	0.00		71.30	63.15	0.64	1.51
<b>MIN</b>			7.1	24.50	4.91	0.00	0.00		55.00	53.00	0.26	1.23

\* N- Normal    S- Sheen    F-Foam    C- Colored

\*\*\*\* NS    NO    FLOW

LOCATION: **FULLERTON CREEK @ FAIRBANKS**

<u>DATE</u>	<u>PHYS. COND.</u> *	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY.</u> (Mg/L)	<u>COPPER</u> (Mg/L)	<u>ZINC</u> (Mg/L)	<u>PETROL</u> HYDRO.	<u>NITRATE</u>	<u>PHOSPH</u>	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>
6/24/11	N	9:15 AM	7.88	17.6	6.5	0.09	0.10			1.10	69	60	0.00	0.00
7/15/11	N	9:05 AM	8.02	22.7	5.4		0.11			1.70	77	69	0.00	0.00
8/2/11	N	8:50 AM	7.81	24.7	5.9	cloudy	0.12			3.20	92	80	0.00	0.00
8/8/11	N	9:55 AM	7.72	23.2	6.6	0.04	0.04			0.70	82	64	3.47	7.39
<b>MAX</b>			8.02	24.70	6.61	0.09	0.12			3.20	92.00	80.00	3.47	7.39
<b>AVG.</b>			7.86	22.05	6.12	0.07	0.09			1.68	80.08	68.35	0.87	1.85
<b>MIN</b>			7.72	17.61	5.43	0.04	0.04			0.70	69.30	60.40	0.00	0.00

\* N- Normal    S- Sheen    F-Foam    C- Colored

LOCATION: **FULLERTON CREEK @ STEWART**

<u>DATE</u>	<u>PHYS. COND.*</u>	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>PHOSPH.</u>	<u>NITRATE</u>	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>
6/28/11	cloudy	8:25 AM	7.17	21.0	1.5			1.70	0.01	82	66	0.00	0.00
7/15/11	N	8:30 AM	7.25	23.0	3.2			0.57	0.02	77	69	0.00	0.00
8/2/11	N	8:15 AM	7.06	28.9	2.2			1.50	0.02	92	80	0.00	0.00
<b>MAX</b>			7.25	28.90	3.18			1.70	0.02	92.00	80.00	0.00	0.00
<b>AVG.</b>			7.16	24.30	2.30			1.26	0.02	83.93	71.63	0.00	0.00
<b>MIN</b>			7.06	21.00	1.51			0.57	0.01	77.40	66.10	0.00	0.00

\* N- Normal    S- Sheen    F-Foam    C- Colored

LOCATION: **WESTWOOD CREEK @ LENORE**

<u>DATE</u>	<u>PHYS. COND.*</u>	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>AMONIA</u>	<u>PETROL. HYDRO.</u>	<u>LAST 24 HRS</u>	<u>LAST 24 HRS</u>	<u>LAST 24 HRS</u>	<u>LAST 48 HRS</u>
										<u>HIGH TEMP.</u>	<u>LOW TEMP.</u>	<u>PRECIP.</u>	<u>PERCIP.</u>
6/24/2011	N	8:30 AM 10:05	7.6	19.1	5.50	0.02	0.25	0.03		69.3	60.4	0.01	0.09
8/2/11	N	AM	7.31	28.7	5.2	0.01	0.03	0.03		91	80	0.00	0.00
<b>MAX</b>			7.57	28.70	5.50	0.02	0.25	0.03		91.20	79.90	0.01	0.09
<b>AVG.</b>			7.44	23.90	5.33	0.02	0.14	0.03		80.25	70.15	0.01	0.05
<b>MIN</b>			7.31	19.10	5.15	0.01	0.03	0.03		69.30	60.40	0.00	0.00

\* N- Normal    S- Sheen    F-Foam    C- Colored

LOCATION: **72" @ ODEUM**

<u>DATE</u>	<u>PHYS. COND.</u> *	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY.</u> (Mg/L)	<u>COPPER</u> (Mg/L)	<u>ZINC</u> (Mg/L)	<u>PETROL</u> . <u>HYDRO.</u>	<u>PHOS</u> . <u>MG/L</u>	<u>NITRATE</u> <u>MG/L</u>	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>
7/15/11	N	8:00 AM	7.35	23.8	5.2	0.10	0.06		2.80		77	69	0.00	0.00
<b>MAX</b>			7.35	23.80	5.23	0.10	0.06		2.80		77.40	68.80	0.00	0.00
<b>AVG.</b>			7.35	23.80	5.23	0.10	0.06		2.80		77.40	68.80	0.00	0.00
<b>MIN</b>			7.35	23.80	5.23	0.10	0.06		2.80		77.40	68.80	0.00	0.00

\* N- Normal    S- Sheen    F-Foam    C- Colored

LOCATION: **DAPS**

<u>DATE</u>	<u>PHYS. COND.*</u>	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>PETROL. HYDRO.</u>	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>
9/28/11	NS	10:40 AM							55	53	0.26	1.23
<b>MAX</b>									55.00	53.00	0.26	1.23
<b>AVG.</b>									55.00	53.00	0.26	1.23
<b>MIN</b>									55.00	53.00	0.26	1.23

\* N- Normal    S- Sheen    F-Foam    C- Colored

NS NO FLOW



LOCATION: **48" @ NORTH PLANT PUMP & DAM**

<u>DATE</u>	<u>PHYS. COND.*</u>	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>PETROL. HYDRO.</u>	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>	
9/28/11	NS	8:45 AM							55	53	0.26	1.23	NO FLOW

<b>MAX</b>									55.30	53.00	0.26	1.23	
<b>AVG.</b>									55.30	53.00	0.26	1.23	
<b>MIN</b>									55.30	53.00	0.26	1.23	

\* N- Normal    S- Sheen    F-Foam    C- Colored

NS    NO FLOW

LOCATION: **STEWART POND EFF.**

<u>DATE</u>	<u>PHYS. COND.*</u>	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>PHOSPH.</u>	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>
6/28/11	N	9:00AM	7.57	21.0	3.5	0.12	0.07		82.40	66.1	0.00	0.00
7/15/11	N	9:40 AM	7.58	24.9	1.7	0.05	0.07	1.60	77.40	68.8	0.00	0.00
8/2/11	N	9:10 AM	7.26	28.8	3.0	0.07	0.02	1.40				
10/10/11	N	10:15 AM	7.22	19.5	2.1	0.04			76.50	52.2	0.00	0.00
<b>MAX</b>			7.58	28.80	3.53	0.12	0.07	1.60	82.40	68.80	0.00	0.00
<b>AVG.</b>			7.41	23.55	2.57	0.07	0.05	1.50	78.77	62.37	0.00	0.00
<b>MIN</b>			7.22	19.50	1.67	0.04	0.02	1.40	76.50	52.20	0.00	0.00

\* N- Normal    S- Sheen    F-Foam    C- Colored

LOCATION: **OPUS EFF.**

<u>DATE</u>	<u>PHYS. COND.*</u>	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>PHOSPH.</u>	<u>NITRATE</u>	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>
8/4/2011	N	9:25 AM	7.45	28.4	4.6	0.08	0.01	0.40	0.01	85	67	0.01	0.64

<b>MAX</b>			7.45	28.40	4.63	0.08	0.01	0.40		84.50	67.40	0.01	0.64
<b>AVG.</b>			7.45	28.40	4.63	0.08	0.01	0.40		84.50	67.40	0.01	0.64
<b>MIN</b>			7.45	28.40	4.63	0.08	0.01	0.40		84.50	67.40	0.01	0.64

\* N- Normal    S- Sheen    F-Foam    C- Colored

LOCATION: **42" SOUTH OF CHERRY HILL**

<u>DATE</u>	<u>PHYS. COND.*</u>	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>NITRATE</u>	<u>PETROL. HYDRO.</u>	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>
7/29/11	N	9:45 AM	7.22	22.9	6.3			0.10					
9/28/11	N	10:10 AM	7.38	17.3	8.0	0.07				55	53	0.26	1.23
<b>MAX</b>			7.38	22.90	7.98	0.07				55.00	53.00	0.26	1.23
<b>AVG.</b>			7.30	20.10	7.15	0.07				55.00	53.00	0.26	1.23
<b>MIN</b>			7.22	17.30	6.31	0.07				55.00	53.00	0.26	1.23

\* N- Normal    S- Sheen    F-Foam    C- Colored

LOCATION: **WESTWOOD CREEK @ HOLTZ**

<u>DATE</u>	<u>PHYS. COND.</u> *	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>AMONI A</u>	<u>PETROL HYDRO.</u>	<u>Nitrate</u>	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>
6/24/11	N	8:40 AM	7.77	20.0	7.2			0.10			69	60	0.01	0.09
7/20/2011	N	1:00 PM	7.44	28.8	4.2									
8/4/2011	F	8:25 AM	7.63	27.0	6.4			0.10		0.02	85	67	0.01	0.64
8/9/2011	N	9:05 AM	9.05	24.3	6.1			0.20		0.02	82	64	3.47	7.39
10/10/11	N	10:45 AM	7.98	18.4	7.2			0.09			77	52	0.00	0.00
<b>MAX</b>			9.05	28.80	7.18			0.20		0.02	84.50	67.40	3.47	7.39
<b>AVG.</b>			7.97	23.70	6.21			0.12		0.02	77.98	61.05	0.87	2.03
<b>MIN</b>			7.44	18.40	4.20			0.09		0.02	69.30	52.20	0.00	0.00

\* N- Normal    S- Sheen    F-Foam    C- Colored

LOCATION: **18" @ CHERRY HILL/VILLA AVE.**

<u>DATE</u>	<u>PHYS. COND.*</u>	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>PHOS Mg/L</u>	<u>PETROL. HYDRO.</u>	LAST 24 HRS	LAST 24 HRS	LAST 24 HRS	LAST 48 HRS
										<u>HIGH TEMP.</u>	<u>LOW TEMP.</u>	<u>PRECIP.</u>	<u>PERCIP.</u>
9/28/11	N	10:30 AM	7.05	17.4	5.3			2.18		55	53	0.26	1.23

<b>MAX</b>			7.05	17.40	5.31					55.00	53.00	0.26	
<b>AVG.</b>			7.05	17.40	5.31					55.00	53.00	0.26	
<b>MIN</b>			7.05	17.40	5.31					55.00	53.00	0.26	

\* N- Normal    S- Sheen    F-Foam    C- Colored

LOCATION: **DAVEA POND**

<u>DATE</u>	<u>PHYS. COND.</u> *	<u>TIME</u>	<u>pH</u>	<u>TEMP (C°)</u>	<u>DIS. OXY. (Mg/L)</u>	<u>COPPER (Mg/L)</u>	<u>ZINC (Mg/L)</u>	<u>PETROL HYDRO.</u>	<u>NITRATE</u>	<u>PHOSPH.</u>	<u>LAST 24 HRS HIGH TEMP.</u>	<u>LAST 24 HRS LOW TEMP.</u>	<u>LAST 24 HRS PRECIP.</u>	<u>LAST 48 HRS PERCIP.</u>
7/7/11	S	9:46 AM	9.64	27.1	10.8					2.62	86	65	0.01	0.01
7/15/11	N	10:15 AM	9.90	27.4	12.6	0.01	0.28		0.02	0.40	77	69	0.00	0.00
8/4/11	N	9:00 AM	7.78	26.6	5.4	0.05	0.17			0.50	85	67	0.01	0.64
<b>MAX</b>			9.90	27.40	12.57	0.05	0.28				85.70	68.80		
<b>AVG.</b>			9.11	27.03	9.56	0.03	0.23				82.53	67.17		
<b>MIN</b>			7.78	26.60	5.35	0.01	0.17				77.40	65.30		

\* N- Normal    S- Sheen    F-Foam    C- Colored

## **ATTACHMENT**

### **SECTION F**

#### **Pollution Prevention/Good Housekeeping Presentation**



# Storm Water Pollution Prevention

Highlights for Municipal Operations  
February 28, 2012



## Goals of Training

1. Highlight municipal operations that may cause polluted run-off; and to identify best practices to minimize impacts.
2. Be able to recognize potential problems out in the public areas.
3. Review the Spill Prevention, Control, and Countermeasure (SPCC) plan
4. Meet permit requirement for annual training

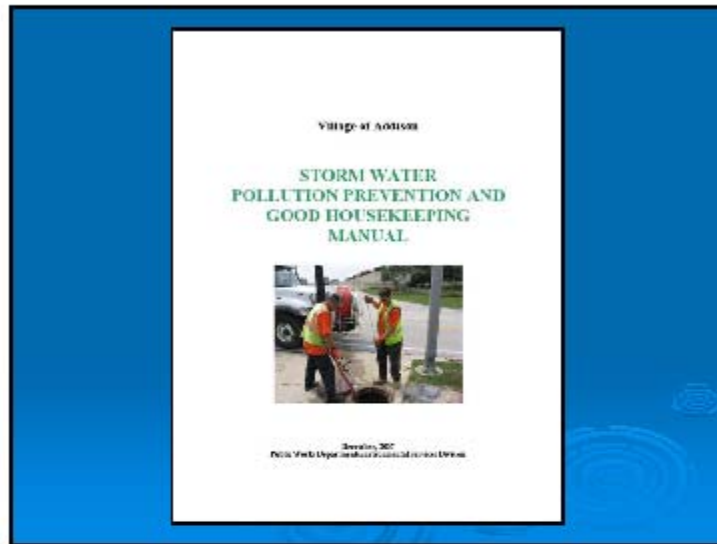
## Storm Water Regulations

- All overland and separate storm sewer discharges
- Village has a Municipal Separate Storm Sewer System (MS4) permit that regulates all 57 “outfalls”
- Local Ordinance (Chapter 23) has limits for pollutants, enforcement mechanism.

## MS4 Permit

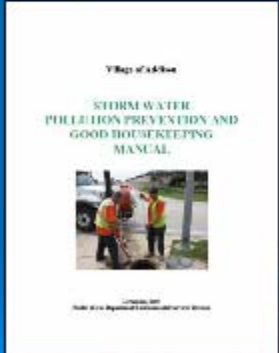
### 6 Components

- Public Education/Outreach
- Public Participation
- Illicit Discharge Detection
- Construction site run-off
- Post Construction BMP's
- Municipal Operations (Pollution Prevention – Good Housekeeping)



## Pollution Prevention/Good Housekeeping

- Covers all municipal operations (except wastewater plants)
- Includes:
  - Training
  - Inspections and Maintenance
  - Polluted Storm Water Control
  - Flood Management

A smaller version of the manual cover is shown to the right of the list. It contains the same text and image as the larger cover above.

## Exempt Discharges

- Hydrant Flushing
- Diverted stream flows
- Groundwater
- Potable Water
- Air-Conditioning condensate
- Resident Car washing
- Pool Water (No excess  $Cl_2$ , neutral pH)
- Building Washdown (No Detergents)
- Street Cleaning Water
- Pavement Washwater (No Evidence of Spills)

## Exempt Discharges – Continued

- Fire Fighting, Emergency Operations
- Dye Testing
- Irrigation water
- Those specifically approved by the Village
- All discharges covered by an existing NPDES permit or other state approved construction discharges

## Public Works – Sources

- Fleet Maintenance
- Curb Inlet & Catch Basin Cleaning
- Street Sweeping
- Salt Storage & Loading
- Salt Usage
- “Spoils” Piles
- Equipment Cleaning
- Spill Prevention, Reporting & Clean-up
- Pesticide/Herbicide Application

## Fleet Operations

- Vehicle servicing
- Washing
- Fluid Changes
- Vehicle storage

## Fleet Operations – BMP's\*

- All maintenance and cleaning performed inside
- Document trap cleaning
- Save invoices for oil and other waste services.
- Maintain fuel islands, spill kits
- Inspect stored vehicles and equipment for leaks
- Field Repairs, Spills/Leaks

\* Best Management Practices

## Street Division

- Sweeping
  - All streets at least monthly, March through November
  - Debris is collected and placed in spoils piles; dried and shipped offsite.
  - Water is released to sanitary sewer.
- Sweeper Cleaning
- Paving Equipment, cleaning

## Electrical & Forestry

- Primarily Herbicides, pesticides, larvaecides
- Utilizes “Integrated Pest Management” (Complementary materials that are safer to environment)
- Direct trunk injection (for fertilizers and pesticides)
- “Low water, low irrigation” techniques (injection, mulching, etc.)
- Only use contractors with EPA permits to apply

## Sewer Division

- Catch-basin cleaning and pumping
- Yearly Goals:
  - 25% of all catch basins throughout town.
  - 100% of catch basins in “combined sewer” area.
  - Clean debris from inlets in response to complaints/problems
- Spill/Leak Detection

## Water Division

- Emergency operations exempt (dewatering, cleaning equipment in the field)
- Hydrant flushing permitted
- Spills, Leaks, and other general operations must follow BMP's

## Wastewater Divisions

- Unique Storm Water regulations – started in 1997
- Both plants tied storm sewers to treatment process to avoid sampling and reporting
- Conditional 5-yr Exemption (only on their property)
- Spills/Leaks must still be addressed



## All Divisions - Spoils Piles, Equipment & Material Storage

- Dump as little liquid as possible.
- Clean drains periodically.
- Inspect equipment and vehicles stored outside for leaks. (Monthly)
- Store all fluids and chemicals inside.
- Clean equip. inside whenever possible
- Sealed drums and containers are allowed exposed to stormwater

## Salt Usage

- High concentrations in area waterways have prompted controls.
- Use of salt necessary, but must be minimized.
- BMP's
  - Pre-Treating Roads
  - Whetting agents, other additives
  - Spreaders (Speed sensitive, calibrated)

## Salt Storage & Loading

- Stored in Dome – No Runoff (Off site piles must be tarped)
- Use of Conveyor
- Loading of trucks done by trained operator
- Spillage returned to dome

## Spill Prevention, Control, & Countermeasure (SPCC) Plan

- Plan established for the Jeffrey site
- List what is stored, how much, and where it would drain to
- Inspection Forms, Facility Diagrams
- Reporting of Spills
- Containment
- Clean-up
- Training, Update every 5 years

## SPCC – Cont.

- Fuel Island Spill Kits
- Emergency Shut-Off
- Secondary Containment
  - Must be inspected
  - Drain plug must be IN
  - Rainwater only released after visual inspection for oil

## Roadway Spills

- Report, be Specific!
- Contain, eliminate source or move to controlled area if possible
- Unknowns – Do NOT attempt clean-up

## Summary

- “Only Rain Down the Drain”
- Review all practices in your divisions
- Report Spills Immediately
- Call-in suspicious discharges, business practices, outside storage