



State of Ohio Environmental Protection Agency

Southwest District

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Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korlaski, Director

July 6, 2007

Mr. John McManus  
Program Manager, Storm Water Management Department  
Clermont County Water and Sewer District  
2379 Clermont Center Drive  
Batavia, OH 45103

**RE: Screening Evaluation, Storm Water Management Plan - 1GQ10002\*AG**

Dear John:

On Monday, March 5, 2007, I conducted a screening level evaluation of Clermont County's storm water management plan. I met with you and others who are actively involved with implementing this plan to discuss details of its 6 Minimum Control Measures (MCMs). Based on our discussions and my review of the plan and subsequent annual reports, I offer the following observations:

**1. MCMs 1 and 2 – Public Education, Outreach and Participation**

It's clear that significant effort has been made to inform and educate residents of Clermont County about storm water management issues. Efforts have also been made to solicit for input from residents, particularly those residing in the East Fork of the Little Miami River watershed. Hopefully resources will be available in the future to permit continued outreach activities at their current level.

**Recommendations**

At some point it would be worthwhile trying to determine the effectiveness of all the different outreach activities that have been conducted. The department should consider surveys in the future to see if outreach efforts are producing better informed residents.

**2. MCM 3 – Illicit Discharge Detection and Elimination**

The program is also actively involved with tracking down and eliminating illegal discharges into publicly owned drainage ways. Much of this activity is associated with failing home sewage treatment systems (HSTS), which exist in abundance in Clermont County. Efforts to locate known HSTSs have resulted in some highly detailed maps for several townships, and the county appears to be making excellent use of its GIS capabilities for this purpose.

Efforts to create an illicit discharge ordinance are ongoing. Incorporating the ordinance into existing county Water Management and Sediment Control regulations appears to be a good way of allaying concerns about county authority to enact such an ordinance.

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P.1

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AS-BUILT REPORT

prepared for

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### **Recommendations**

Continue working on HSTS tracking and mapping in appropriate areas. Efforts to educate HSTS installers on proper installation techniques should continue, as should the sending of HSTS care and maintenance information to homeowners.

Include a copy of the final illicit discharge ordinance in the Annual Report compiled for 2007. Related efforts to address illicit discharges via dry weather field screening at storm sewer outfalls and stream sampling should continue so long as resources are available to support the work. Labeling of storm sewer inlets should also continue if possible. An inventory of all storm sewer inlets that still need to be marked should be included in the next annual report, broken down by individual MS4. A schedule should also be included that shows how long it will take to get all the inlets marked. Plans for replacing placards that will invariably be stolen or otherwise lost should also be discussed.

### **3. MCM 4 – Construction site runoff control**

Clermont County was in the process of revising its Water Management and Sediment Control (WMSC) regulations. It's not clear if the revisions have been finalized, though the most recent WMSC annual report states that all Phase II municipalities in Clermont County have already adopted the revised rules.

Because of past work with Building Department inspectors, site inspections were not conducted on the day I evaluated the county's storm water management plan. In general, I've found the department's erosion and sediment control inspection efforts to be reasonable.

### **Recommendations**

As of early 2007, according to the 2006 Annual Report, efforts were underway to develop contracts between Clermont County and its respective MS4 communities for the purposes of performing WMSC inspections. A summary of the contract language (or even the final contract document itself if it's not too long) should be included in the 2007 Annual Report.

### **4. Post Construction Stormwater Management**

Currently post-construction runoff requirements that address water quality concerns are not incorporated into Clermont County's WMSC regulations. Revisions to these regulations are ongoing and are expected to be completed some time in 2007. A manual of post-construction practices has already been completed, however, which should make things easier for developers once the accompanying rules are implemented.

### **Recommendations**

Include in the 2007 Annual Report a copy of the finalized post-construction storm water management regulations.

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RESULT : EF09D1

ATTACHMENT D

MANUFACTURER'S INSTRUCTIONS FOR  
IRRIGATION PUMP  
BAG FILTER

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#### **5. Materials Management/Pollution Prevention/Good Housekeeping**

Clermont County and its Phase II townships and municipalities have undertaken several useful initiatives regarding ways to improve materials handling, such as salt, and waste handling, such as vehicular fluids. Specific activities were driven by a report compiled by a public service project team from Miami University's Institute for Environmental Sciences which evaluated pollution prevention programs already in place within each phase II entity.

#### **Recommendations**

Materials management/pollution prevention information in the report does not mention how current salt storage practices occur within each MS4. Improvements have clearly been made with respect to minimizing the amounts of salt spread during winter months, but information should be provided which explains how salt piles are stored during warm months. (See section 3.2.6.2.3.2 of the NPDES permit for small MS4s). This information should be included in the next annual report.

Using the IES project's results as a baseline, future annual reports should summarize the extent to which each MS4 community has pursued waste reduction/pollution prevention options, relative to the opportunities discussed in IES' final report. If all recommendations have been acted upon, that fact should certainly be pointed out. But if further waste reduction opportunities remain, an explanation as to why the options have not been implemented should be included.

Overall it appears Clermont County's Stormwater Department is doing an adequate job of implementing its stormwater management plan.

If you have questions about this evaluation or any of the information contained in this letter, please contact me at (937) 285-6442 or via email at [chris.cotton@epa.state.oh.us](mailto:chris.cotton@epa.state.oh.us).

Sincerely,



Chris Cotton  
Division of Surface Water

cc Anthony Robinson, OEPA/DSW/CO  
OEPA/SWDO/DSW Files

CC/plh

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PAGES : 0page  
RESULT : EF09D1

INSTALLATION,  
SERVICE AND PARTS LIST

Sheet 1 of 2

4525 E. Industrial Street  
Unit 4C  
Simi Valley, CA 93063  
Phone 805-582-0065



S201, S202 SERIES  
DIRECT OPERATED DIAPHRAGM  
2-WAY SOLENOID VALVE

DESCRIPTION

S201 & S202 Solenoid Valves are 2-Way, direct operated diaphragm type, which are designed for on-off control of air, steam and liquids.

S201 Solenoid Valves are normally closed and S202 Solenoid Valves are normally opened.

INSTALLATION

Check valve specifications to be sure that the valve selected is the proper one for the application.

S201 & S202 Solenoid valves are multipositioned in any position.

DISASSEMBLY AND REASSEMBLY(See Fig 1 & 2)

Disassembly

1. Unscrew the hex nut. Remove the lockwasher.  
Lift off the housing assembly from the plunger tube assembly.
2. ( S201) Use a special spanner wrench to remove the base nut. Lift off plunger tube.  
( S202) Use 1 3/8" hex wrench to remove plunger tube and base assembly from valve bonnet.
3. Remove the screws securing the bonnet to the body and remove the bonnet.
4. Check internal parts of valve for