

**Midway SWPPP Final  
8-26-08 twp submittal  
Jim Aird – tpw supervisor**

# **Midway Township**

**St. Louis County**

**2008**

**Storm Water Pollution Prevention Plan**

**August 26, 2008**

# NPDES Phase II MS4 Permit Application Storm Water Pollution Prevention Program

## General Storm Water Permit Application (MN R 040000)

### Midway Township

Midway Township's SWPPP is designed to reduce the discharge of pollutants from the Township's storm sewer system to the maximum extent practicable. To achieve this goal, standard Best Management Practices (BMPs) have been developed. The BMP measures are intended to address the 6 minimum control measures (MCMs) outlined in the MS4 Permit. The 6 MCMs are:

1. Public Education and Outreach
2. Public Participation/Involvement
3. Illicit Discharge Detention and Elimination
4. Construction Site Stormwater Runoff Control
5. Post-Construction Stormwater Management in New Development and Redevelopment
6. Pollution Prevention/Good Housekeeping

The following table provides the title of each BMP measure and its location in the SWPPP.

<b>BMP ID Numbers</b>	<b>Best Management Practice</b>	<b>Permit Reference</b>	<b>Page</b>
1a-1	Distribute Educational Materials	V.G.1.a	4
1b-1	Implement an Education Program	V.G.1.b	5
1c-1	Education Program: Public Education and Outreach	V.G.1.c	6
1c-2	Education Program: Public Participation	V.G.1.c	7
1c-3	Education Program: Illicit Discharge Detection and Elimination	V.G.1.c	8
1c-4	Education Program: Construction Site Run-off Control	V.G.1.c	9
1c-5	Education Program: Post-Construction Stormwater Management in New Development and Redevelopment	V.G.1.c	10
1c-6	Education Program: Pollution Prevention/Good Housekeeping for Municipal Operations	V.G.1.c	11
1d-1	Coordination of Education Program	V.G.1.d	12
1e-1	Annual Public Meeting	V.G.1.e	13
2a-1	Comply with Public Notice Requirements	V.G.2.a	14
2b-1	Solicit Public Input and opinion on the Adequacy of the SWPPP	V.G.2.b	15
2c-1	Consider Public Input	V.G.2.c	16
3a-1	Storm Sewer System Map	V.G.3.a	17
3b-1	Regulatory Control Program	V.G.3.b	18

3c-1	Illicit Discharge Detection and Elimination Plan	V.G.3.c	19
3d-1	Public and Employee Illicit Discharge Information Program	V.G.3.d	20
3e-1	Identification of Non Stormwater Discharges and Flows	V.G.3.e	21
4a-1	Ordinance or other Regulatory Mechanism	V.G.4.a	22
4b-1	Construction Site Implementation of Erosion and Sediment Control BMPs	V.G.4.b	24
4c-1	Waste Controls for Construction Site Operators	V.G.4.c	25
4d-1	Procedure for Site Plan Review	V.G.4.d	26
4e-1	Establishment of Procedures for the Receipt and Consideration of Reports of Stormwater Noncompliance	V.G.4.e	27
4f-1	Establishment of Procedures for Site Inspections and Enforcement	V.G.4.f	28
5a-1	Development and Implementation of Structural and/or Non-structural BMPs	V.G.5.a	29
5b-1	Regulatory Mechanism to Address Post Construction Runoff from New Development and Redevelopment	V.G.5.b	30
5c-1	Long-term Operation and Maintenance of BMPs	V.G.5.c	31
6a-1	Municipal Operations and Maintenance Program	V.G.6.a	32
6a-2	Street Sweeping		33
6b-2	Annual Inspection of All Structural Pollution Control Devices	V.G.6.b.2	34
6b-3	Inspection of a Minimum of 20 percent of the MS4 Outfalls, Sediment Basins and Ponds Each Year on a Rotating Basis	V.G.6.b.3	35
6b-4	Annual Inspection of All Exposed Stockpile, Storage and Material Handling Areas	V.G.6.b.4	36
6b-5	Inspection Follow-up Including the Determination of Whether Repair, Replacement, or Maintenance Measures are Necessary and the Implementation of the Corrective Measures	V.G.6.b.5	37
6b-6	Record Reporting and Retention of all Inspections and Responses to the Inspections	V.G.6.b.6	38
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7a	IMPAIRED WATERS (excluding Fecal Coliform TMDL BMP's)	IV.D	40
7b	Trout Waters -		43
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Maps	Waters of Interest and Township maps - 3 maps		46

# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 1-PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1a-1

<p><b>*BMP Title:</b> Distribute Educational Materials</p>
<p><b>*BMP Description:</b></p> <ul style="list-style-type: none"><li>-annual township newsletter</li><li>-annual township meeting</li><li>-work with St. Louis county, the city of Duluth and Lake Superior / Duluth Streams(DLSDS) Midway on any collaborative education group that may be reviewing available stormwater materials</li><li>-county information will be available to all township residents.</li><li>-the county website with swppp information will be noted on the township newsletter.</li><li>-make arrangements with Duluth and DLSDS to have stormwater educational materials available for parties seeking building and zoning approvals</li><li>- stormwater education materials will also be available at the Midway city hall and the public library</li></ul> <p>Location(s) in SWPPP of detailed information relating to this BMP: Stormwater topics on the <a href="http://www.duluthstreams.org/index.html">http://www.duluthstreams.org/index.html</a> web site, Midway twp web site -Website being developed project end of 2008 or early 2009-</p>
<p><b>*Measurable Goals:</b></p> <p>Amount of township constituent response – as recorded at monthly or annual township meetings. Number of recipients and response will be noted in the meeting minutes.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Implement in 2008 – review responses at township meetings for possible additions or changes on an annual basis till 2010.</p>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD Jim Aird, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: <a href="mailto:jeaird@msn.com">jeaird@msn.com</a></p>

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1b-1

<p><b>*BMP Title:</b> Implement an Education Program</p>
<p><b>*BMP Description:</b></p> <p>Township newsletter with rotating information each year Annual township meeting agenda with discussion and question and answer session -- establish with Duluth and Lake Superior / Duluth Streams (DLSDS), City of Duluth), on a fair share or other basis an arrangement for the delivery / participation in applicable stormwater abatement activities or materials. --keep the county and DLSDS informed of stormwater education activities and have stormwater educational materials available at twp offices for citizens, builders and developers when permits and zoning approvals are requested. -- -- help select appropriate educational materials for the township and Duluth via the DLSDS collaborative education group</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 1 SEE Duluth and Lake Superior / Duluth Streams (DLSDS)WEBSITE.</p>
<p><b>*Measurable Goals:</b></p> <p>-- The amount of township constituent response -- as recorded at monthly or annual township meetings. number of recipients and response will be noted in the meeting minutes --attending collaborative education group meetings -- establishing an arrangement with Duluth to cooperate with the county stormwater education efforts.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>-- for the Midway area collaborative education group activity: develop the plan in cooperation with Duluth, DLSDS, the City and adjoining township officials and the St. Louis County Soil and Water Conservation District, by the end of 2008 and implement it throughout the remaining term of the permit thereafter.</p> <p>.</p>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: JEAIRD@MSN.COM</p>

# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1c-1

<p><b>*BMP Title:</b> Education Program: Public Education and Outreach</p>
<p><b>*Audience(s) Involved:</b></p> <ul style="list-style-type: none"><li>-- Midway township residents</li><li>-- use the communication arrangements between the county, DLSDS and the Midway township contact person to receive changing Duluth swppp and educational information by direct mailing or by e-mail. this information is then made available to residents on the township website, at the town hall office or at annual meeting</li></ul>
<p><b>*Educational Goals for Each Audience:</b></p> <ul style="list-style-type: none"><li>-- keep residents informed about storm water discharge and actions for residents to take to reduce pollutants in storm water.</li> <li>-- highlight stormwater issues in the twp</li><li>-- periodic articles in township newsletters</li></ul>
<p><b>*Activities Used to Reach Educational Goals:</b></p> <ul style="list-style-type: none"><li>-- annual township newsletter</li><li>-- annual township meeting agenda</li><li>-- inform public of Duluth's, regional stormwater groups and the MPCA websites using the above mechanisms.</li></ul>
<p><b>*Activity Implementation Plan:</b></p> <p>mail township newsletter annual township meeting agenda continue in 2008 a partnership with Duluth and /or the Town of Midway for distribution of educational materials and continue the partnership through out the term of the permit</p>
<p><b>*Performance Measures:</b></p> <p>Constituent questions and comments will be noted and recorded at the monthly and annual township meetings.</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: <a href="mailto:JEAIRD@MSN.COM">JEAIRD@MSN.COM</a></p>

# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1c-2

<b>*BMP Title:</b> Education Program: Public Participation
<b>*Audience(s) Involved:</b> MIDWAY TOWNSHIP RESIDENTS
<b>*Educational Goals for Each Audience:</b> - inform the public and encourage township residents to stay informed and report any storm water related incidents to township officers.
<b>*Activities Used to Reach Educational Goals:</b> -- Annual township newsletter, list township contacts for incident report. -- Annual township meeting – use meeting to gain township residents participation in available storm water related programs or pollution prevention programs. -- <b>Regular monthly meetings</b>
<b>*Activity Implementation Plan:</b> Mail township newsletter quarterly Annual township meeting agenda to include a line item to discuss storm water and pollution related issues.
<b>*Performance Measures:</b> CONSTITUENT RESPONSES RECORDED AS IN 1c-1.
<b>*Responsible Party for this BMP:</b> Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: <a href="mailto:JEAIRD@MSN.COM">JEAIRD@MSN.COM</a>

# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1c-3

<p><b>*BMP Title:</b> Education Program: Illicit Discharge Detection and Elimination</p>
<p><b>*Audience(s) Involved:</b> MIDWAY TOWNSHIP RESIDENTS</p>
<p><b>*Educational Goals for Each Audience:</b> Educate residents on how to identify and report any new or unusual discharge. members of the general public should understand:</p> <ul style="list-style-type: none"><li>• the impact of illicit discharges on water quality</li><li>• the definition of illicit discharges to the point of being able to recognize them in the field</li><li>• the safety precautions that should be considered when near illicit discharges</li></ul> <p>how to report illicit discharges to the Duluth Soil &amp; Water Conservation (SWCD)</p>
<p><b>*ACTIVITIES USED TO REACH EDUCATIONAL GOALS:</b> -- Annual township newsletter will list contacts for reporting incidents. -- Duluth's efforts to coordinate with Midway-Duluth planning department, the Town of Midway public utilities to prioritize likely illicit discharge sources with targeted completion by the end of 2009. General educational materials will be targeted for completion by the end of 2008 and will be distributed thereafter for the remainder of the permit term.</p>
<p><b>*Activity Implementation Plan:</b> Annual township meeting will be used as a forum to educate township residents on how to identify, describe and report incidents on illicit discharge.</p>
<p><b>*Performance Measures:</b> CONSTITUENT RESPONSES AS NOTED IN 1c-1.</p>
<p><b>*Responsible Party for this BMP:</b> Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: <a href="mailto:JEAIRD@MSN.COM">JEAIRD@MSN.COM</a></p>



# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1c-4

<b>*BMP Title:</b> Education Program: Construction Site Run-off Control
<b>*Audience(s) Involved:</b> Developers and/or builders involved in Midway township construction projects.
<b>*Educational Goals for Each Audience:</b> --making certain that developers and builders are aware of the current township and county zoning regulations and construction requirements and procedures to indicate if 1) those parties hired by the township for construction projects have the appropriate bmp training. 2) reminding developers of construction site run-off control and provide them with materials as described in 1c-1. 3) letting citizens of the township know of training opportunities provided by Duluth and the Town of Midway using educational methods and delivery techniques described in 1c-1. 4) distribute information to building contractors and permit applicants on stormwater construction site runoff controls
<b>*Activities Used to Reach Educational Goals:</b>  Ask Building contractors as part of the permitting process of educational seminars on this issue ) distribute information to building contractors and permit applicants on stormwater construction site runoff controls
<b>*Activity Implementation Plan:</b> ONGOING Throughout THE CONSTRUCTION PROJECT. Track the number of building contractors and building permits and the number of violations that inspections reveal
<b>*Performance Measures:</b> Compliance with township zoning regulations, which includes verification of grading plans by a professional engineer.
<b>*Responsible Party for this BMP:</b> Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: JEAIRD@MSN.COM

# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1c-5

<p><b>*BMP Title:</b> Education Program: Post-Construction Stormwater Management in New Development and Redevelopment</p>
<p><b>*Audience(s) Involved:</b> MIDWAY TOWNSHIP PROPERTY OWNERS AND MIDWAY TOWNSHIP OFFICIALS.</p>
<p><b>*Educational Goals for Each Audience:</b> Comply with county / township zoning ordinances related to post construction runoff. Understand roles and responsibilities related to construction projects.</p>
<p><b>*Activities Used to Reach Educational Goals:</b> Work with zoning administrator on determining compliance with the building and zoning regulations and codes.</p>
<p><b>*Activity Implementation Plan:</b> ONGOING THROUGHOUT THE CONSTRUCTION PROCESS. Track field visits by any inspectors from the township or county annually</p>
<p><b>*Performance Measures:</b> COMPLIANCE WITH LOCAL ZONING ORDINANCES Track field visits by any inspectors from the township or county</p>
<p><b>*Responsible Party for this BMP:</b> Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: JEAIRD@MSN.COM</p>

# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1c-6

<p><b>*BMP Title:</b> Education Program: Pollution Prevention/Good Housekeeping for Municipal Operations</p>
<p><b>*Audience(s) Involved:</b> TOWNSHIP OFFICIALS TOWNSHIP MAINTENANCE STAFF.</p>
<p><b>*Educational Goals for Each Audience:</b> -- keep informed about septic system care and yard maintenance. -- keep informed about current septic system and property maintenance issues. -- recognize activities and materials that have the potential to pollute storm water and identify practices or products that can reduce water quality impacts.</p>
<p><b>*Activities Used to Reach Educational Goals:</b> participation in county, area watershed district and state training activities or classes on stormwater pollution prevention best management practices at the township level including, but not limited to, maintenance of storm water conveyance, maintenance of streets, and sand and salt application.  -- provide maintenance staff with maps developed by the county that identify nearby storm water management system components and receiving waters.</p>
<p><b>*Activity Implementation Plan:</b> Annual road and property inspection by township officials with periodic training.</p>
<p><b>*Performance Measures:</b> NOTING AND RECORDING IN A ROAD AND PROPERTY INSPECTION SUMMARY.</p>
<p><b>*Responsible Party for this BMP:</b> Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: jeaird@msn.com</p>

# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1d-1

<p><b>*BMP Title:</b> Coordination of Education Program</p>
<p><b>*BMP Description:</b></p> <ul style="list-style-type: none"><li>-- establish with Duluth and DLSDS, an arrangement for the delivery / participation in applicable stormwater abatement activities or materials.</li><li>--keep the county informed of stormwater education activities and have stormwater educational materials available at twp offices for citizens, builders and developers when permits and zoning approvals are requested.</li><li>-- help select appropriate educational materials for the township and Duluth via the collaborative education group</li><li>-- reach residents through the township annual newsletter and annual meeting</li><li>--</li></ul> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 1</p>
<p><b>*Measurable Goals:</b></p> <ul style="list-style-type: none"><li>--.</li><li>-- send a township board member to area stormwater meeting conducted by the city or the county and participate annually in to area collaborative education group meetings.</li></ul>
<p><b>*Timeline/Implementation Schedule:</b></p> <ul style="list-style-type: none"><li>-- implement in 2008 and ongoing throughout the term of the permit</li><li>-- Annually send a township board member to ongoing stormwater citizen education meeting in the area to keep at least one township board member up to date on stormwater and development issues.</li><li>.</li></ul>
<p><b>SPECIFIC COMPONENTS AND NOTES:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD</p> <p>Department: NONE</p> <p>Phone: 218-628-2237</p> <p>E-mail: JEAIRD@MSN.COM</p>

# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** PUBLIC EDUCATION AND OUTREACH

**Unique BMP Identification Number:** 1e-1

<p><b>*BMP Title:</b> Annual Public Meeting</p>
<p><b>*BMP Description:</b> annual township meeting is held the second Tuesday in march stormwater management is one item on the agenda</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 1</p>
<p><b>*Measurable Goals:</b> Hold a meeting at least annually that included swppp information discussion and response. monitor attendance</p>
<p><b>*Timeline/Implementation Schedule:</b> -- implement in 2008, at annual march meeting with published newspaper notice of annual meeting two weeks in advance.  -- once per year, prior to the june 30<sup>th</sup> deadline for submitting the annual report.</p>
<p><b>Specific Components and Notes:</b> NONE</p>
<p><b>*Responsible Party for this BMP:</b> Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: JEAIRD@MSN.COM</p>

# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 2-PUBLIC PARTICIPATION/INVOLVEMENT

**Unique BMP Identification Number:** 2a-1

<p><b>*BMP Title:</b> Comply with Public Notice Requirements</p>
<p><b>*BMP Description:</b> notice of township annual meeting and any planning and zoning public hearings are published in the official town publication which is currently the Proctor Journal,,as required by law</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 2</p>
<p><b>*Measurable Goals:</b> COMPLIANCE WITH STATE LAW ON NOTIFICATION REQUIREMENTS</p>
<p><b>*Timeline/Implementation Schedule:</b> ANNUALLY OR WHEN REQUIRED BY LAW</p>
<p><b>Specific Components and Notes:</b> NONE</p>
<p><b>*Responsible Party for this BMP:</b> Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: JEAIRD@MSN.COM</p>

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 2-PUBLIC PARTICIPATION/INVOLVEMENT

**Unique BMP Identification Number:** 2b-1

<p><b>*BMP Title:</b> Solicit Public Input and opinion on the Adequacy of the SWPPP</p>
<p><b>*BMP Description:</b></p> <p>-- ask questions of township residents who attend annual township meeting or monthly board meetings. Invite both oral and written comments from the township residents.</p> <p>-- provide information on how the township manages stormwater runoff and the purposes of the SWPPP</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 2</p>
<p><b>*Measurable Goals:</b></p> <p>-- resident comments will be noted and recorded in minutes of relevant meetings. -- increase the publics understanding of the impacts of stormwater runoff -- track attendees -- prepare a presentation on the issue</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Annually at any township public meeting.</p>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: JEAIRD@MSN.COM</p>





## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 3-ILLCIT DISCHARGE DETECTION AND  
ELIMINATION

**Unique BMP Identification Number:** 3a-1

**\*BMP Title:** Storm Sewer System Map

**\*BMP Description:**

-- Midway Township maintains and updates annually a road right of way map. The zoning administrator maintains files including maps showing all storm water related structures.

-- The township zoning administrator will submit maps and lists of stormwater related structures to Duluth public works for inclusion into any Duluth mapping system

Location(s) in SWPPP of detailed information relating to this BMP: SECTION 3

**\*Measurable Goals:**

- Annual update of township right of way map to include any new storm water structures.
- Submittal of new stormwater structures to Duluth public works

**\*Timeline/Implementation Schedule:**

Annual town board road inspection tour  
Routine road monitoring by township road maintenance crew

**Specific Components and Notes:**

NONE

**\*Responsible Party for this BMP:**

Name: JIM AIRD, MIDWAY TOWN BOARD

Department: NONE

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# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 3-ILLCIT DISCHARGE DETECTION AND ELIMINATION

**Unique BMP Identification Number:** 3b-1

<p><b>*BMP Title:</b> Regulatory Control Program</p>
<p><b>*BMP Description:</b></p> <ul style="list-style-type: none"><li>-- routine monitoring of township road ditches by township supervisors and road maintenance crew to detect and eliminate illicit discharges</li><li>-- resident reports of problems</li><li>-- notification to county public health</li><li>-- The township does not have an ordinance provision that addresses illicit stormwater discharge detection and elimination. Should be developed by 2010.</li></ul> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 3</p>
<p><b>*Measurable Goals:</b></p> <ul style="list-style-type: none"><li>-- Clean and operable road right of way and infrastructure as needed.</li><li>-- adopt a township illicit discharge ordinance that mirrors Duluth's and surrounding communities planned ordinance by June 2010.</li></ul>
<p><b>*Timeline/Implementation Schedule:</b></p> <ul style="list-style-type: none"><li>-- Review existing illicit discharge ordinances that other communities have in place for guidance for the drafting of a township ordinance.</li><li>-- Adopt illicit discharge ordinance within 6 months of finalized Duluth ordinance by June 2010</li></ul>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD</p> <p>Department: NONE</p> <p>Phone: 218-628-2237</p> <p>E-mail: JEAIRD@MSN.COM</p>

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 3-ILLCIT DISCHARGE DETECTION AND  
ELIMINATION

**Unique BMP Identification Number:** 3c-1

<p><b>*BMP Title:</b> Illicit Discharge Detection and Elimination Plan</p>
<p><b>*BMP Description:</b></p> <p>-- Township roadside monitoring by road maintenance crew with observations or non-stormwater discharges into township waterways to be logged and reported to township officials. Resident reports and comments either oral or written will also be logged and reported to township officials.</p> <p>-- When an illicit discharge is identified, the township will work with responsible party to eliminate the discharge through education and or enforcement. The correction process will use township road and stormwater structure maps.</p> <p>-- The township will work with St. Louis County to identify failing septic systems and corrective measures needed.</p> <p>-- where law allows, township will post "no dumping" signs in problem areas</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 3</p>
<p><b>*Measurable Goals:</b></p> <p>-- Identify and log all instances and possible illicit discharge issues.</p>
<p><b>*TIMELINE/IMPLEMENTATION SCHEDULE:</b></p> <p>-- annual town board road inspection tour</p> <p>-- routine monitoring by township road maintenance crew, ongoing.</p> <p>-- enforcement of planning and zoning regulations, ongoing</p> <p>-- Duluth's timeline for enacting the ordinance provisions is as follows:</p> <ol style="list-style-type: none"><li>1. 2008 – file notes and external ordinance copies</li><li>2. 2009 – draft regulatory mechanism</li><li>3. 2009 – public comments received and documents finalized</li><li>4. 2009 – presentation to the county board for adoption</li></ol>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD</p> <p>Department: NONE</p> <p>Phone: 218-628-2237</p> <p>E-mail: <a href="mailto:JEAIRD@MSN.COM">JEAIRD@MSN.COM</a></p>

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 3-ILLICIT DISCHARGE DETECTION AND  
ELIMINATION

**Unique BMP Identification Number:** 3d-1

<p><b>*BMP Title:</b> Public and Employee Illicit Discharge Information Program</p>
<p><b>*BMP Description:</b></p> <p>-- Public education through annual meeting and newsletter to include information on septic system maintenance and hazardous waste and chemical disposal. Partner with Duluth on distribution of educational information to township residents and township employees.</p> <p>coordinate township staff training with any Duluth program to understand:</p> <ul style="list-style-type: none"><li>• the impact of illicit discharges on water quality</li><li>• the definition of illicit discharges for proper identification</li><li>• the safety precautions to be followed near illicit discharges</li><li>• check with the Town of Midway on any employee training they plan and attend the trainings</li><li>• how to report illicit discharges to township officers</li></ul> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 3</p>
<p><b>*Measurable Goals:</b></p> <p>-- educate public and township employees on how to identify and report suspected cases of illicit discharge, and the safety precautions needed.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>-- Implement efforts to educate township staff and supervisors on illicit discharge issues in 2008.</p>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD</p> <p>Department: NONE</p> <p>Phone: 218-628-2237</p> <p>E-mail: JEAIRD@MSN.COM</p>

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 3-ILLCIT DISCHARGE DETECTION AND  
ELIMINATION

**Unique BMP Identification Number:** 3e-1

<p><b>*BMP Title:</b> Identification of Non Stormwater Discharges and Flows</p>
<p><b>*BMP Description:</b></p> <ol style="list-style-type: none"><li>1) in conjunction with 3c-1, routine review of conditional use permits for commercial operations already existing in the township.</li><li>2) annual road inspection to identify possible non-storm water discharges.</li><li>3) note instances of non-storm water discharge and evaluate for potential of pollutants.</li><li>4) septic discharge is reviewed and referred to St. Louis County by the township.</li></ol> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 3</p>
<p><b>*Measurable Goals:</b></p> <p>-- identify, evaluate and eliminate all instances of all non-storm water flows.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Initiate identification in 2008 of non-storm water discharge and continue annually.</p>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: JEAIRD@MSN.COM</p>

## BMP Summary Sheet

**MS4 Name:** Midway Township

**Minimum Control Measure:** 4-Construction Site Storm Water Run-off Control

**Unique BMP Identification Number:** 4a-1

<b>*BMP Title:</b>	<b>ORDINANCE OR OTHER REGULATORY MECHANISM</b>
<p><b>*BMP Description:</b></p> <ul style="list-style-type: none"> <li>- The township planning and zoning ordinance section 24. which sets controls for soil erosion, sedimentation, runoff and slope stability (same as county ordinance)</li> <li>- All construction sites require a grading plan to be reviewed and approved by the township Planning and Zoning administrator who. Coordinates review and permitting authority with the county as appropriate.</li> </ul> <p>An informal review of the St. Louis County Ordinance addresses whether the following required components are included:</p> <ol style="list-style-type: none"> <li>1. <i>Requirements for Construction Site Plan submittal by site operators to the MS4 which includes erosion and sediment control and stormwater treatment BMPs.</i> These are addressed in the Duluth Zoning Ordinance Section 2405.</li> <li>2. <i>Site plan review and approval by MS4 prior to activity on site.</i> This is addressed in Duluth Zoning Ordinance Section 2401 .</li> <li>3. <i>Requirements and design standards for temporary erosion and sediment controls during construction activities.</i> Addressed in Section 24..</li> <li>4. <i>Requirements for record keeping of rainfall amounts and inspections by site operators.</i> Not specifically mentioned in Duluth Zoning Ordinance, may need review.</li> <li>5. <i>Regular inspections by site operators.</i> Not specifically mentioned in Duluth Zoning Ordinance, may need review.</li> <li>6. <i>Requirements and criteria for the site operator to conduct dewatering and/or basin draining at the site.</i> Not specifically mentioned in Duluth Zoning Ordinance, may need review.</li> <li>7. <i>Requirements and criteria for BMP maintenance.</i> Addressed in Section 24.</li> <li>8. <i>Requirements concerning waste controls for solid and hazardous wastes.</i> Duluth has adopted Solid Waste Ordinance 24, as mentioned in BMP 4c-1.</li> <li>9. <i>Requirements and design standards for permanent stormwater management controls following the completion of construction activities.</i> Addressed in Section 2405. .</li> <li>10. <i>Requirements for stable slopes and the establishment of perennial vegetative cover on all exposed soils upon the completion of any construction activity.</i> Addressed in Section 2401</li> <li>11. <i>The regulatory mechanism must outline sanctions to ensure compliance which include a viable enforcement component. Compliance tools could potentially include, but are not limited to, the following: (1) Verbal warnings, (2) Written warnings, (3) Stop-work orders, (4) Fines, (5) Forfeit of security bond money, and/or (6) Withholding of certificate of occupancy.</i> The township has guidelines and shall develop an inforcement section to allow the township to require compliance.</li> </ol> <p>.</p> <p><b>*Measurable Goals:</b></p> <p>The ordinance was updated in 2002 and is periodically reviewed for necessary updates.</p> <p><b>*Timeline/Implementation Schedule:</b></p> <p>Ongoing throughout the term of the permit.</p>	
Specific Components and Notes:	

None.

\*Responsible Party for this BMP:

Name: Jim Aird, Midway Town Board

Department: None

Phone: 507-895 2244

E-mail: [jeaird@msn.com](mailto:jeaird@msn.com)

*\*Indicates a REQUIRED field. Failure to complete any required field will result in rejection of the application due to incompleteness.*

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 4-CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

**Unique BMP Identification Number:** 4b-1

<p><b>*BMP Title:</b> Construction Site Implementation of Erosion and Sediment Control BMPs</p>
<p><b>*BMP Description:</b></p> <p>-- The township permit director and planning and zoning administrator will determine compliance with the grading and construction plans. Non-compliance will be reported to the township planning and zoning commission and town board of supervisors for review and recommendation.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 4</p>
<p><b>*Measurable Goals:</b></p> <p>compliance with plans for erosion control and grading Check periodically with the City of Midway to determine any new stormwater runoff measures or practices that the township should ask developers and contractors and to initiate as items to include in future inspections</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Continue annual inspections throughout the term of the permit.</p>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: JEAIRD@MSN.COM</p>



## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 4-CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

**Unique BMP Identification Number:** 4c-1

<p><b>*BMP Title:</b> Waste Controls for Construction Site Operators</p>
<p><b>*BMP Description:</b></p> <p>-- The township will use Duluth solid waste ordinance 24 # and any applicable township ordinance for addressing waste management activities</p> <p>-- the township will utilize contract provisions, stop work orders, correction orders or other enforcement mechanisms, as needed and appropriate, to address non-compliant sites.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 4</p>
<p><b>*Measurable Goals:</b></p> <p>Compliance with county and township ordinances and notation of instances of non-compliance.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Implement in 2008 and ongoing throughout the term of the permit. The township zoning administrator will record and file all instances of non-compliance to the ordinances in place.</p>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD</p> <p>Department: NONE</p> <p>Phone: 218-628-2237</p> <p>E-mail: JEAIRD@MSN.COM</p>

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 4-CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

**Unique BMP Identification Number:** 4d-1

<p><b>*BMP Title:</b> Procedure for Site Plan Review</p>
<p><b>*BMP Description:</b></p> <p>The township zoning administrator along with the township permit director review and approve all site and grading plans. The ordinances section 24 and 25 apply to the storm water run off and preservation of natural drainage.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 4</p>
<p><b>*Measurable Goals:</b></p> <p>Maintain compliance with grading and site plans submitted and reviewed.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Continue to review the review process to determine if there are adverse impacts</p>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: JEAIRD@MSN.COM</p>

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 4-CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

**Unique BMP Identification Number:** 4e-1

<p><b>*BMP Title:</b> Establishment of Procedures for the Receipt and Consideration of Reports of Stormwater Noncompliance</p>
<p><b>*BMP Description:</b></p> <p>The township will periodically review existing procedures regarding receipt and consideration of reports of stormwater noncompliance or other information on construction related issues submitted by the public. The current process is to inform the Zoning Administrator or township building inspector for enforcement of compliance either written or oral for inquiries, requests or complaints, or possible alleged violations.</p> <p>Township board members may be contacted thru the township clerk</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 4</p>
<p><b>*Measurable Goals:</b></p> <p>Number of calls or letters reviewed.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Ongoing throughout the term of the permit.</p> <p>Contacts will be noted in the annual newsletter.</p>
<p><b>Specific Components and Notes:</b></p> <p>Town of Midway will develop a file and tracking system for complaints, violations and corrective measures taken.</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD</p> <p>Department: NONE</p> <p>Phone: 218-628-2237</p> <p>E-mail: JEAIRD@MSN.COM</p>

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 4-CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

**Unique BMP Identification Number:** 4f-1

<p><b>*BMP Title:</b> Establishment of Procedures for Site Inspections and Enforcement</p>
<p><b>*BMP Description:</b></p> <p>The township implements the provisions of the township ordinance for soil erosion, sedimentation, runoff and slope stability.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 4</p>
<p><b>*Measurable Goals:</b></p> <p>Enforce compliance with zoning ordinance 76.6 and number of enforcement actions annually.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Review and modify the procedures established every year</p>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: JEAIRD@MSN.COM</p>

# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 5-POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

**Unique BMP Identification Number:** 5a-1

<p><b>*BMP Title:</b> Development and Implementation of Structural and/or Non-structural BMPs</p>
<p><b>*BMP Description:</b></p> <ul style="list-style-type: none"><li>-- Insure compliance for post construction stormwater management in new development or redevelopment plans which may include structural and/or non-structural BMP's.</li><li>-- Enforcement of township post-construction stormwater controls are accomplished through the construction project approval processes, site inspections, and when necessary by withholding permits, issuing stop work or correction orders or imposing contract provisions.</li><li>-- Continue to require that all new developments or redevelopments include implementation of structural and/or non-structural BMP's.</li></ul> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 5</p>
<p><b>*Measurable Goals:</b></p> <ul style="list-style-type: none"><li>- keep township road right of way and infrastructure in a clean, operable and compliant condition.</li><li>- track new developments and insure that structural and non-structural BMP's are developed and maintained by the site owners.</li><li>- take steps to implement post construction ordinance provisions to assure that developers and site owners are responsible for long term care of the BMP's installed.</li></ul>
<p><b>*Timeline/Implementation Schedule:</b></p> <ul style="list-style-type: none"><li>-- In 2008 initiate the ordinance development process to adopt post construction stormwater management in new and redevelopment projects, and incorporate in zoning text..</li><li>=</li></ul>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD</p> <p>Department: NONE</p> <p>Phone: 218-628-2237</p> <p>E-mail: JEAIRD@MSN.COM</p>

# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 5-POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

**Unique BMP Identification Number:** 5b-1

<p><b>*BMP Title:</b> Regulatory Mechanism to Address Post Construction Runoff from New Development and Redevelopment</p>
<p><b>*BMP Description:</b></p> <p>The township has established under sections of the township PUD ordinance a number of provisions relating to post construction stormwater management. The subdivision ordinance requires proper erosion control fencing as referred to in section our ordinances. Also post construction ordinance requires a proper drainage The ditches maintained are within the 4 rod (66 foot right of way) and adjacent slopes as needed.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 5</p>
<p><b>*Measurable Goals:</b></p> <p>Prevent post construction non-compliance of runoff and record all instances of problems.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Regulations and ordinances are in place and ongoing.</p> <p>--</p>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: JEAIRD@MSN.COM</p>

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 5-POST-CONSTRUCTION STORMWATER MANAGEMENT IN  
NEW DEVELOPMENT AND REDEVELOPMENT

**Unique BMP Identification Number:** 5c-1

<p><b>*BMP Title:</b> Long-term Operation and Maintenance of BMPs</p>
<p><b>*BMP Description:</b></p> <p>-- continue routine annual inspections of storm water BMP's and road right of ways to ensure proper runoff and functional road right-of-ways.</p> <p>-- any stormwater related problems that are encountered will be assessed and corrected either by township road staff or by the responsible party</p> <p>-- the township will ensure that there are adequate long-term operation and maintenance of the BMP's that are installed pursuant to these permit requirements</p> <p>-- the township will as necessary designate township funds to maintain any township owned stormwater BMP structures and will initiate measures to insure that privately owned stormwater BMP structures are maintained by owners.</p> <p>-- the township will ensure that where appropriate that property title easements define owner responsibility for providing access, maintenance and long term care of constructed stormwater structures</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 5</p>
<p><b>*Measurable Goals:</b></p> <p>-- maintain clean and operable road right of way stormwater infrastructure and insure that long term care of all stormwater infrastructure is maintained</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>Annual inspections</p>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD</p> <p>Department: NONE</p> <p>Phone: 218-628-2237</p> <p>E-mail: <a href="mailto:JEAIRD@MSN.COM">JEAIRD@MSN.COM</a></p>

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 6-POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6a-1

<p><b>*BMP Title:</b> Municipal Operations and Maintenance Program</p>
<p><b>*BMP Description:</b></p> <p>Routine road inspection and maintenance by experienced road maintenance crew.</p> <p>See 1c-6.</p> <p>Participation by township staff in county and state education programs.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 6</p>
<p><b>*Measurable Goals:</b></p> <p>-- MAINTAIN CLEAN AND OPERABLE ROAD RIGHT OF WAY AND INFRASTRUCTURE</p> <p>-- the twp will keep a log of any employee training received</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>—Coordinate any employee training with the training planned by the TownMi of Midway as described in the City's SWPPP.</p>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD</p> <p>Department: NONE</p> <p>Phone: 218-628-2237</p> <p>E-mail: <a href="mailto:JEIRD@MSN.COM">JEIRD@MSN.COM</a></p>



# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 6-POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6a-2

**\*BMP Title:** Street Sweeping\*\*

**\*BMP Description:**

-- Not required but is usually performed in the spring to remove sediment that has accumulated on the roads during the winter months.

The Township does on occasion do street sweeping to remove the rock on road surfaces from seal coating during the summer. The purpose of this is to remove excess rock that did not get forced into the seal coat and prevent it from getting into the ditches.

Location(s) in SWPPP of detailed information relating to this BMP:

**\*Measurable Goals:**

-- To reduce sediment and salt runoff to receiving waters and to maintain a clean and functional drainage/driving surface.

**\*Timeline/Implementation Schedule:**

Not applicable

**Specific Components and Notes:**

NONE

**\*Responsible Party for this BMP:**

Name: JIM AIRD, MIDWAY TOWN BOARD

Department: NONE

Phone: 218-628-2237

E-mail: [JEAIRD@MSN.COM](mailto:JEAIRD@MSN.COM)

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 6-POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6b-2

**\*BMP Title:** Annual Inspection of All Structural Pollution Control Devices

**\*BMP Description:**

Midway township does not own or operate any pollution control devices. If any are installed during the term of this permit, inspections will be completed at least annually and an inspection record will be utilized to document each inspection's findings. Work orders will be prepared for any maintenance needs identified during inspections. Completion of work orders will be tracked.

Location(s) in SWPPP of detailed information relating to this BMP: SECTION 6

**\*Measurable Goals:**

only after structural pollution control devices are installed:

1. written inspection procedures, with inspection criteria and inspection record
2. staff trained in the inspection of the devices
3. # of inspection records
4. # of work orders
5. completed maintenance

**\*Timeline/Implementation Schedule:**

Only after structural pollution control devices are installed – annual or periodic inspections throughout the term of the permit.

**Specific Components and Notes:**

NONE

**\*Responsible Party for this BMP:**

Name: JIM AIRD, MIDWAY TOWN BOARD

Department: NONE

Phone: 218-628-2237

E-mail: [JEAIRD@MSN.COM](mailto:JEAIRD@MSN.COM)

# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 6-POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6b-3

**\*BMP Title:** Inspection of a Minimum of 20 percent of the MS4 Outfalls, Sediment Basins and Ponds Each Year on a Rotating Basis

**\*BMP Description:**

MIDWAY TOWNSHIP DOES NOT OWN OR OPERATE ANY OF THE ABOVE MENTIONED POLLUTION PREVENTION DESCRIPTIONS.

-- At the time outfalls, sediment basins and ponds are constructed, develop procedures and inspection records prepared for outfalls and storm water ponds owned and maintained by Midway Township. The township will complete inspections utilizing the appropriate inspection record to document each inspection's findings. Work orders will be prepared for any maintenance needs identified during inspections. Completion of work orders will be tracked.

Location(s) in SWPPP of detailed information relating to this BMP: SECTION 6

**\*Measurable Goals:**

There are currently no stormwater structures located in the township

1. By the end of each calendar year, the following goals will be reached, as a percentage of the total structures in existence during that year:

Year 1 - 20%

Year 2 - 40%

Year 3 - 60%

Year 4 - 80%

Year 5 - 100%

[Note: After all have been identified and inspected once, it is the township's intent to manage the inspection rotation so as to keep the interval between inspections as consistent as possible.]

2. # of inspection records

3. # of work orders

4. Completed maintenance

**\*Timeline/Implementation Schedule:**

Ongoing throughout the term of the permit.

**Specific Components and Notes:**

NONE

**\*Responsible Party for this BMP:**

Name: JIM AIRD, MIDWAY TOWN BOARD

Department: NONE

Phone: 218-628-2237

E-mail: [JEAIRD@MSN.COM](mailto:JEAIRD@MSN.COM)

# BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 6-POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6b-4

<p><b>*BMP Title:</b> Annual Inspection of All Exposed Stockpile, Storage and Material Handling Areas</p>
<p><b>*BMP Description:</b></p> <p>Inspection of township garage and maintenance yard continually for road maintenance crew worksite. Inspections will include: storage areas, stockpiles, and/or material handling areas that are potentially exposed to storm water. Where feasible, practices will be altered to eliminate the potential for exposure of significant materials to storm water. Where exposure cannot be eliminated, practices will be implemented to reduce the potential for exposure to storm water. Township staff is trained to properly manage storm water intrusion into the work site.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 6</p>
<p><b>*Measurable Goals:</b></p> <p>MAINTAIN township maintenance sites so that they do not have stormwater runoff problems.</p> <p>.</p>
<p><b>*Timeline/Implementation Schedule:</b></p> <p>IN PLACE AND ON-GOING THROUGHOUT THE PERMIT TIMELINE.</p>
<p><b>Specific Components and Notes:</b></p> <p>NONE</p>
<p><b>*Responsible Party for this BMP:</b></p> <p>Name: JIM AIRD, MIDWAY TOWN BOARD</p> <p>Department: NONE</p> <p>Phone: 218-628-2237</p> <p>E-mail: <a href="mailto:JEAIRD@MSN.COM">JEAIRD@MSN.COM</a></p>

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 6-POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6b-5

**\*BMP Title:** Inspection Follow-up Including the Determination of Whether Repair, Replacement, or Maintenance Measures are Necessary and the Implementation of the Corrective Measures

**\*BMP Description:**

- Monthly report to town board from maintenance supervisor of corrective measures needed.
- Town board authorization when necessary for implementation of corrective measures.

Location(s) in SWPPP of detailed information relating to this BMP: SECTION 6

**\*Measurable Goals:**

Insure corrective actions were implemented and completed.

**\*Timeline/Implementation Schedule:**

Ongoing as necessary throughout the term of the permit.

**Specific Components and Notes:**

NONE

**\*Responsible Party for this BMP:**

Name: JIM AIRD, MIDWAY TOWN BOARD

Department: NONE

Phone: 218-628-2237

E-mail: [JEAIRD@MSN.COM](mailto:JEAIRD@MSN.COM)

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 6-POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6b-6

<p><b>*BMP Title:</b> Record Reporting and Retention of All Inspections and Responses to the Inspections</p>
<p><b>*BMP Description:</b> Keep monthly town board minutes and road maintenance records and any record of corrective measures taken.</p> <p>Location(s) in SWPPP of detailed information relating to this BMP: SECTION 6</p>
<p><b>*Measurable Goals:</b> Keep a maintenance history of road right of way and infrastructure on an annual basis.</p>
<p><b>*Timeline/Implementation Schedule:</b> In place and ongoing throughout the term of the permit.</p>
<p><b>Specific Components and Notes:</b> NONE</p>
<p><b>*Responsible Party for this BMP:</b> Name: JIM AIRD, MIDWAY TOWN BOARD Department: NONE Phone: 218-628-2237 E-mail: <a href="mailto:JEAIRD@MSN.COM">JEAIRD@MSN.COM</a></p>

## BMP Summary Sheet

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:** 6-POLLUTION PREVENTION/GOOD HOUSEKEEPING

**Unique BMP Identification Number:** 6b-7

**\*BMP Title:** Evaluation of Inspection Frequency

**\*BMP Description:**

Carry our sufficient inspections to maintain road right of way and infrastructure. If necessary the frequency of inspections may be adjusted.

Location(s) in SWPPP of detailed information relating to this BMP: SECTION 6

**\*Measurable Goals:**

Adjust frequency and type of inspection annually and after a significant rainfall event.

**\*Timeline/Implementation Schedule:**

ONGOING THROUGHOUT THE TERM OF THE PERMIT.

**Specific Components and Notes:**

NONE

**\*Responsible Party for this BMP:**

Name: JIM AIRD, MIDWAY TOWN BOARD

Department: NONE

Phone: 218-628-2237

E-mail: jeaird@msn.com

**Unique BMP Identification Number: 7a**

**\*BMP Title:** **IMPAIRED WATERS** (excluding Fecal Coliform TMDL BMP's)

*[Note: Impaired waters are waters that are included on the EPA/MPCA 303(d) Impaired Waters list. The MPCA MS4 Stormwater Permit requires a review of the storm water discharge(s) to list impaired waters to determine if there are SWPPP BMP's that may improve Minnesota waters that exceed the USEPA-approved Total Maximum Daily Load (TMDL) allocation for individual pollution parameters. Partial lists of TMDL pollutants that have been identified in impaired waters that a SWPPP may address include the following: ammonia, pesticides, chloride, fecal coli form, dissolved oxygen, pH, turbidity and temperature. {see MPCA 2006 Final List of Impaired Waters <http://www.pca.state.mn.us/publications/wq-iw1-03.xls> and the MPCA Impaired Waters Search Tool at <http://www.pca.state.mn.us/water/stormwater/stormwater-c.html> - then Go to "Special and Impaired Waters" and Click on "Special Waters Search Tool" - dated 5-07}. ]*

Midway Township does not have any impaired waters that are included on the MPCA's 303(d) Impaired Waters. Part IV.D of the MS4 Permit requires the township to conduct a review of the storm water discharge(s) from the township that may impact impaired waters. For impaired waters that do not currently have a USEPA-approved TMDL, the permit requires the township to determine whether changes are warranted in the township SWPPP to reduce the impact of discharges. Any reviews carried out will be in collaboration with the City of Duluth and the Lake Superior Streams group. Water quality and ecological goals and objectives regarding the Township's streams will be addressed in the County's Surface Water Management Plan. Once developed, The Plan will include specific objectives that address collaboration with the city of Duluth and Lake Superior Streams in the development of management plans for impaired waters within the Township. The Plan will indicate a biannual review of the following five impaired waters tasks that will be conducted during the current permit cycle:

- (1) Review the USEPA approved 303(d) impaired waters list (updated biannually by EPA) to determine whether any listed impaired waters receive a stormwater discharge from Midway township and are likely to be impacted by stormwater discharge from the township,
- (2) Use a combination of storm sewer maps and field surveys to identify all potential stormwater discharges impacting impaired waters,
- (3) Map the watershed area(s) which contribute to the above discharge point(s),
- (4) Utilize township board and staff to evaluate / consider the need for changes to the township SWPPP to reduce the impact of discharges from the township to the impaired waters by generally considering the following issues: hydrology and land characteristics such as total area, slope, type of vegetation, soil types, percentage of impervious surfaces, runoff volumes and rates, land use and other characteristics of the watershed area(s) of the receiving impaired water that may cause a stormwater impact.,
- (5) Document for township records a written overview discussion of the staff assumptions and decisions relating to the need for changes to the twp SWPPP to reduce identified pollutant levels.

Location(s) in SWPPP of detailed information relating to this BMP:



**\*Measurable Goals:**

- Collaborate with the city of Duluth and Duluth and Lake Superior / Duluth Streams (DLSDS) to carry out a review of the impaired waters issue including a schedule of steps to be taken by using existing township and county staff or experts to make recommendations on incorporating improvements to the SWPPP.
- Complete reviews involving Township collaboration with DLSDS to accomplish the five listed review tasks. This includes developing an outline of the schedule and steps to be taken to make changes to the SWPPP
- Complete a written overview discussion of the staff assumptions and decisions that change to the township SWPPP is needed to address TMDL improvements.
- Prepare a written inventory of all impaired waters within the township as well as those outside these boundaries likely to have an impact as a result of receiving stormwater discharge from the township; (compile as much detail about the stormwater discharges the township receives from other MS4's as is available.
- Revise the Township SWPPP including revisions for the township SWPPP that include:
  - (1) A map showing the location(s) of the impaired water(s), discharge points and identified watershed areas and the TMDL pollutants the SWPPP BMP's can address.
  - (2) Incorporating updated or new BMP summary sheets that implement the conclusions of the impaired waters review, and initiate the measures or actions that are warranted resulting in reduced impact from township discharge to the impaired water(s).

**\*Timeline/Implementation Schedule:**

- Every two years starting in 2010 review the EPA impaired waters list

**Specific Components and Notes:**

None.

**\*Responsible Party for this BMP:**

Name: JIM AIRD, MIDWAY TOWN BOARD  
Department: NONE  
Phone: 218-628-2237  
E-mail: jeaird@msn.com

**BMP Summary Sheet**

**MS4 Name:** MIDWAY TOWNSHIP

**Minimum Control Measure:**

**Unique BMP Identification Number:** 7-b – General Permit Appendix C – TROUT WATERS

<p><b>*BMP Title:</b> Trout Waters – Requirements for Stormwater Discharges to Trout Waters</p>
<p><b>*BMP Description:</b></p> <p>This BMP is designed to assist Midway Township in the proper control and management of new or expanded stormwater discharges to trout waters from the baseline set at the 1988 levels. Under Part C of Appendix C of the MPCA General MS4 Stormwater Permit, <b>Discharges Adversely Impacting Trout Waters</b> (<i>Minn. R. 6264.0050 subp. 2 and 4</i>), the following requirements apply to Trout Waters listed in Minn. R. 6264.0050, subp. 2 and 4:</p> <ol style="list-style-type: none"><li>1. The MPCA MS4 General Permit for storm sewer systems does not authorize <b>New or Expanded Discharges</b> adversely impacting Trout Waters unless, at minimum, <b>the MS4</b> establishes administrative procedures or other measures to ensure that <b>the MS4</b> makes the following determinations and documents the basis for the MS4’s decision:<ol style="list-style-type: none"><li>a. That there is no feasible and prudent alternative to the proposed discharge; and</li><li>b. All prudent and feasible measures needed to avoid or <b>reduce</b> impacts to Trout Waters, and to preserve the existing high quality of the water will be implemented.</li></ol></li><li>2. If the discharge cannot be avoided, the MS4 must consider measures to protect water quality and prevent temperature increases. Acceptable measures include reducing the impervious surfaces, retaining riparian area trees, diversion away from the stream and use of filter strips, infiltration, biofiltration, or enhanced grass swales to treat runoff before discharge to the Trout Water. Innovative alternatives to ponds are specifically encouraged for Trout Water discharges if they provide equivalent treatment</li></ol> <p>[<b>NOTE:</b> Building Contractors (operators) and individuals (owners) commencing construction activity are already required to prepare a construction site SWPPP (<i>part of a required stormwater construction permit application – a SWPPP template is available</i>) containing BMP’s that will be used on the construction site and to comply with the construction site SWPPP. The SWPPP must be in compliance with the provisions of the MPCA’s general construction stormwater permit for construction activity and the Clean Water Act, as amended, (33 U.S.C. 1251 et seq.), 40 CFR 122, 123, and 124, as amended, et seq.; Minn. Stat. chs. 115 and 116, as amended, and Minn. R. ch. 7001. Attached below are excerpts of the MPCA’s general construction stormwater permit relating to trout streams. A MPCA stormwater permit is required for all construction sites that disturb one or more acres of land.</p> <p><b>The township will take the following actions to enact township BMP measures that address required protections for discharges adversely impacting Trout Waters :</b></p> <ul style="list-style-type: none"><li>• Enact Township code provisions requiring, as part of the building permit application or land development process, that each application for township construction approval include:<ul style="list-style-type: none"><li>▪ A map showing where water from the parcel will drain and locate any nearby trout waters which may be impacted from project development activity</li><li>▪ BMPs that applicants will employ to prevent the following in trout waters:<ul style="list-style-type: none"><li>➢ habitat degradation,</li><li>➢ water warming,</li><li>➢ sediment entry and</li><li>➢ chloride toxicity.</li></ul></li></ul></li></ul>
<p><b>*Measurable Goals:</b></p> <ul style="list-style-type: none"><li>▪ Number of building permits received per year</li><li>▪ Number of building permits reviewed for trout water impacts per year</li><li>▪ Number of violations of trout stream requirements on the building permits</li></ul>
<p><b>*Timeline/Implementation Schedule:</b></p>

- Beginning in 2008 request all applicants for building permits for construction sites that disturb one or more acres of land and could allow site stormwater runoff to enter trout waters to attach the MPCA stormwater permit application (<http://www.pca.state.mn.us/publications/wq-strm2-57.pdf>) and a completed construction site SWPPP Template form (<http://www.pca.state.mn.us/publications/wq-strm2-12.pdf>).
- By October 2008 establish a schedule to draft and enact township ordinance provisions relating to stormwater discharges to trout streams in the township.
- To further protect the township's trout stream resource, review and consider trout stream construction stormwater ordinance provisions that address construction site stormwater runoff issues from construction site areas of less than one acre.
- Enact a township Trout Stream Stormwater Discharge Ordinance provision within one year of MPCA approval of the township SWPPP and issuance of coverage under the National Pollutant Discharge Elimination System/State Disposal System (NPDES/SDS) Permit MNR040000 for Municipal Separate Storm Sewer Systems (MS4 General Permit).

<b>Specific Components and Notes:</b>	NONE
<b>*Responsible Party for this BMP:</b>	
Name:	Jim Aird, MIDWAY TOWN BOARD
Department:	NONE
Phone:	218-628-2237
E-mail:	<a href="mailto:jeaird@msn.com">jeaird@msn.com</a>

## Excerpts from the Draft General Construction Stormwater Permit

**GENERAL PERMIT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM PERMIT PROGRAM**  
ISSUANCE DATE: August 1, 2008  
EXPIRATION DATE: August 1, 2013

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et seq.), 40 CFR 122, 123, and 124, as amended, et seq.; Minn. Stat. chs. 115 and 116, as amended, and Minn. R. ch. 7001:

This permit regulates the discharges of stormwater to the waters of the state of Minnesota associated with construction activity. This permit covers the stormwater discharges identified in Part I.A. of this permit. The limitations on permit coverage are identified in Part I.B. of this permit.

This permit requires the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP). No person shall commence construction activity covered by Part I.A. until permit coverage under this permit is effective or, if applicable, until the Minnesota Pollution Control Agency (MPCA) has issued an individual National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) construction stormwater permit for the project. The SWPPP must be completed prior to submitting any permit application and prior to conducting any construction activity by any required Permittee.

Unless notified by the MPCA to the contrary, applicants who submit a complete and accurate application (including permit fee) in accordance with the requirements of this permit are authorized to discharge stormwater from construction sites under the terms and conditions of this permit as described in Part II.B.

.....

**B. REQUIREMENTS FOR DISCHARGES TO SPECIAL WATERS AND IMPAIRED WATERS**

8. **Trout Streams:** Listed in Minn. R. 6264.0050, subp. 4. Discharges to these waters must incorporate the **BMPs** outlined in C.1, C.2, C.3, and C.5 of this Appendix. ....

**APPENDIX C. ADDITIONAL BMPs FOR SPECIAL WATERS AND IMPAIRED WATERS**  
For the BMPs described in C.2, C.4 and C.5 of this Appendix:  
Where the proximity to bedrock precludes the installation of any of the permanent **stormwater** management practices outlined in Appendix A,

other treatment such as grassed swales, smaller ponds, or grit chambers is required prior to discharge to **surface waters**. For work on linear projects where the lack of right of way precludes the installation of any of the permanent **stormwater** management practices outlined in Appendix A, other treatment such as grassed swales, smaller ponds, or grit chambers is required prior to discharge to **surface waters**.

#### 1. During construction.

- a. All exposed soil areas must be **stabilized** as soon as possible to limit soil erosion but in no case later than seven (7) days after the **construction activity** in that portion of the site has temporarily or permanently ceased.
- b. Temporary sediment basin requirements described in Part III.B.1-5 must be used for common drainage locations that serve an area with five (5) or more acres disturbed at one time.

#### 2. Post construction.

The **water quality volume** that must be treated by the project's permanent **stormwater** management system described in Part III.C. shall be one (1) inch of runoff from the new **impervious surfaces** created by the project. Where site conditions allow, at least ½ inch of the **water quality volume** must be infiltrated. See Part III.C.2 for more information on infiltration design and appropriate site conditions. If it is determined that site conditions are not appropriate for infiltration (e.g. lack of 3 ft. of separation to seasonally saturated ground water, proximity to bedrock, contaminated soils) the reasons should be documented in the **SWPPP** for the project. Infiltration is not required in Hydrologic Soil Group D soils.

#### 3. Buffer zone.

An undisturbed buffer zone of not less than 100 linear feet from the special water (not including tributaries) shall be maintained at all times. Exceptions from this requirement for areas, such as water crossings, limited water access and restoration of the buffer are allowed if the **Permittee** fully documents in the **SWPPP** the circumstances and reasons that the buffer encroachment is necessary. Replacement of existing impervious surface within the buffer is allowed under this permit. All potential water quality, scenic and other environmental impacts of these exceptions must be minimized by the use of additional **BMPs** and documented in the **SWPPP** for the project.

#### 4. Temperature Controls.

The Permanent **Stormwater** Management System must be designed such that the discharge from the project will minimize any increase in the temperature of trout stream receiving waters resulting from the 1-and 2-year 24-hour precipitation events. This includes all tributaries of designated trout streams within the section that the trout stream is located. Projects that discharge to trout streams must minimize the impact using one or more of the following measures, in order of preference:

- a. Minimize new **impervious surfaces**.
- b. Minimize the discharge from connected **impervious surfaces** by discharging to vegetated areas, or grass swales, and through the use of other non-structural controls.
- c. Infiltration or evapotranspiration of runoff in excess of pre-project conditions (up to the 2- year 24-hour precipitation event).
- d. If ponding is used, the design must include an appropriate combination of measures such as shading, filtered bottom withdrawal, vegetated swale discharges or constructed **wetland** treatment cells that will limit temperature increases. The pond should be designed to draw down in 24 hours or less.
- e. Other methods that will minimize any increase in the temperature of the trout stream.

## INFORMATION ON APPLICABLE BMP's for TROUT WATERS PROTECTIONS FOR PARTIES INITIATING CONSTRUCTION ACTIVITY IN THE TOWNSHIP

-- Excerpt from the "MPCA 2005 Stormwater Manual" – Chapter 10

Persons initiating construction activity must consider and indicate the BMP measures to be taken to infiltrate rainwater runoff, reduce the velocity of discharges, and prevent an increase in trout stream temperature due to the raised temperature of stormwater runoff into trout streams.

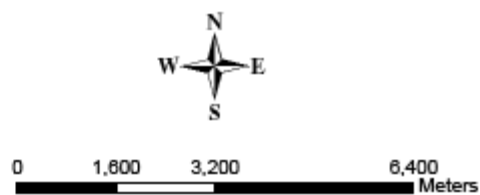
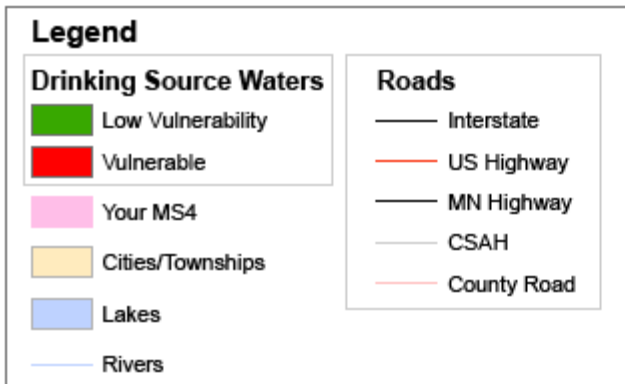
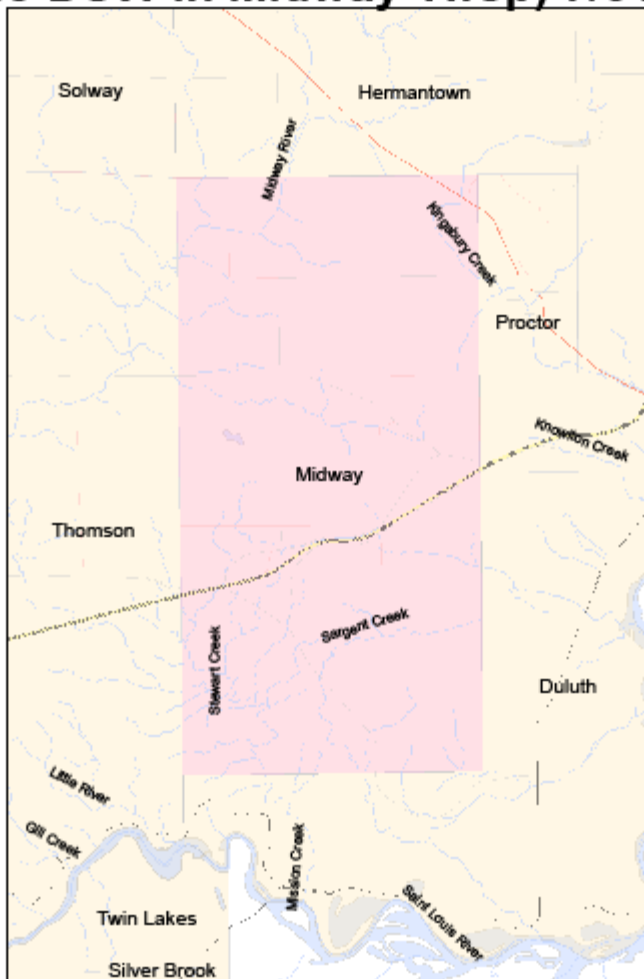
Some examples of **Best Management Practices** that accomplish these goals are as follows:

- Using forested wetland design
- Maximize use of better site design techniques
- Use infiltration and bioretention to the maximum extent possible (seek infiltration whenever possible and discourage discharge to trout streams from ponds with standing water.)
- Construct BMPs "off-line"
- Shade pilot and outflow channels and micropools by planting trees and shrubs
- Plant trees to the maximum extent possible in the stormwater practices and buffers
- Manage buffers to maximize forest cover and shading in riparian areas
- Pre-treat roadway runoff to reduce sediment and road sand discharges to streams
- Develop and test roadway spill management plans
- Implement BMP actions to reduce construction runoff and channel erosion

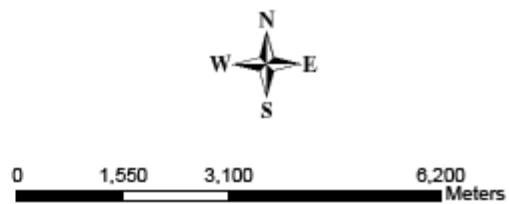
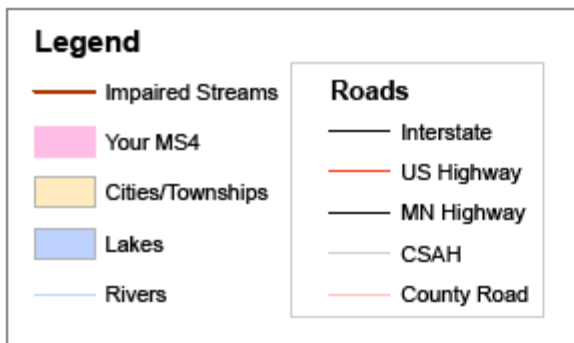
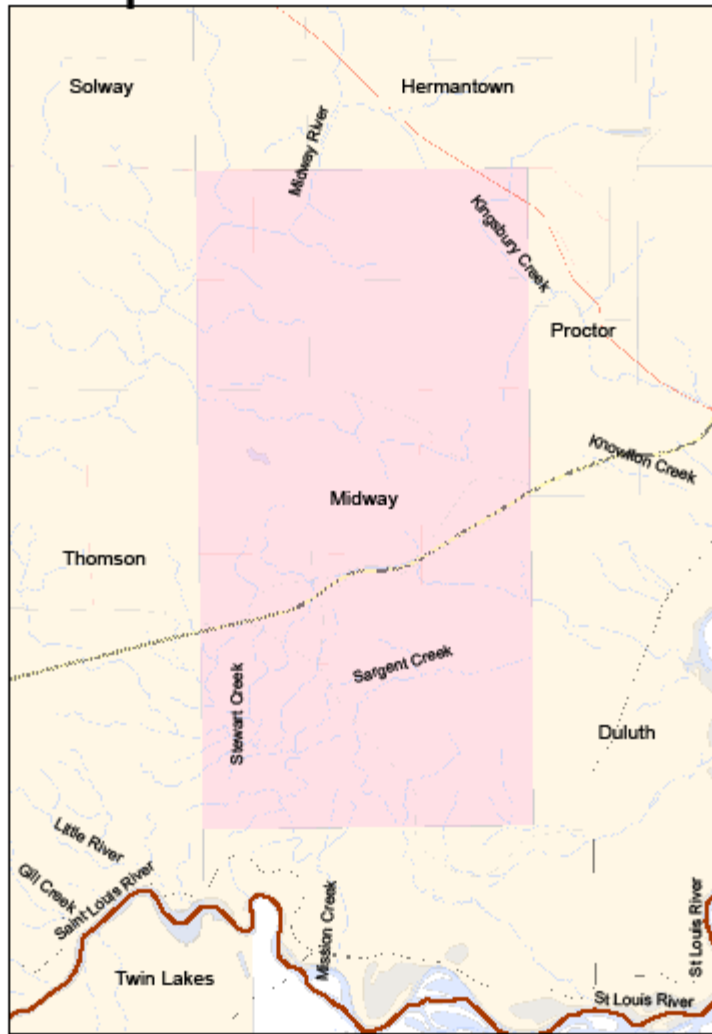
In addition, applicants should ensure that each project and its BMPs do not have:

- Create a large, unshaded permanent pool or shallow wetland
  - Extensive and unshaded pilot and outflow channels within the BMP
  - An open water extended detention time longer than 24 hours
  - Extensive exposed riprap or concrete channel
  - An on-line or in-stream location
  - A building location within the forested buffer
  - Infiltration practices that are undersized or lack pre-treatment.
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# Midway Township MS4 DSW (No DSW in Midway Twsp) 7/31/2006



# Midway Township MS4 Impaired Waters 7/31/2006



# Midway Township MS4 Waters of Interest 7/31/2006

