I completed the annual inspections of the Parking Services’ structural storm water devices last fall per the MPCA’s MS4’s storm water permit MN R580000. While generally your devices appear to be operating appropriately, there are a few items that should be addressed. A prioritized summary with recommendations follows. My recommendation is that those described as high priority should be addressed this summer and low priority items maybe deferred and reviewed again this fall to see if they continue to be a problem.

**HIGH PRIORITY**

ST4623 Lot E Sand Filter
There are large rocks and debris at the pipe outlet into the filter and there was standing water and sediment in the inlet area. **I recommend cleaning an area a minimum of 5-10’ out from the end of the pipe and then checking on the main filter a couple of times during the summer (particularly during and after rain events) to determine if reconstruction of the whole filter is necessary next year.**

ST1792 University Connection to City Manhole from Lot U
There is significant deterioration of the university connection to this city manhole as well as the manhole is in bad condition. **I recommend fixing the university connection to this manhole.** I sent an email to the City of Duluth on 11/21/13 telling them of the condition of the manhole and asking if they plan on fixing the manhole or if we should fix our connection to it. They have not yet replied.

**MEDIUM PRIORITY**

ST3982 Lot T-2 Filtration Basin
The sediment forebay is full and the biologs have degraded. **I recommend cleaning the sediment forebay, and the cleanup and replacing of the old biologs.** As FM has a storage area upstream of this area and Parking recently rebuilt the basin, I had our Grounds crew clean up the sediment and replace the biologs at FM expense.

**LOW PRIORITY**

ST1630 Lot W Stormceptor
As in previous years, this Stormceptor is almost nonfunctional from a University perspective due to City storm water issues upstream. At this inspection there was sediment in the bottom of the Stormceptor. **The city cleans this Stormceptor as needed.**
The rest of your structural storm water devices and materials handling areas appear to be functioning as intended. I have included a copy of all your inspection reports for your review.

**Update on last year's issues:**

ST1630 Lot W Stormceptor – City to clean as needed - City has appeared to have cleaned
ST3583 Lot L-3 (lower) Sand Filter – Watch for minor erosion – Area seems to have stabilized
ST4623 Lot E Sand Filter – Clean out inlet area – Not Funded
ST5146 Lot M / RWBFGM Stormceptor – FM to clean structure – Cleaned 9/13/13

If you have any questions regarding these inspections please contact me at (218) 726-6915 or elarson@d.umn.edu.

Please let me know how you would intend to respond to these inspection findings as I need to report our maintenance activities in our annual storm water report to the MPCA this spring. If you would like me to oversee the repairs, please submit a work order describing which devices you would like repaired.

Thanks.

Enclosures:

- Inspection Reports:
  - ST1338 LAIH/Lot Q-4 Sump Manhole (South) (shared w/ Housing)
  - ST1346 LAIH/Lot Q-4 Sump Manhole (Middle) (shared w/ Housing)
  - ST1366 LAIH/Lot Q-4 Sump Manhole (North) (shared w/ Housing)
  - ST1486 Lot L-1 Stormceptor
  - ST1630 Lot W Stormceptor
  - ST2913 Lot R/ChPk Swales and Filtration Pond (shared w/ FM)
  - ST2923 Lot R/ChPk Underground Tank (shared w/ FM)
  - ST3583 Lot L-3 (lower) Sand Filter
  - ST3593 Lot L-3 (upper) Sand Filter
  - ST3982 Lot T-2 Filtration Bed
  - ST4591 Lot G Tank and Outlet Structure
  - ST4596 Lot G Stormceptor
  - ST4623 Lot E Sand Filter
  - ST5146 Lot M Stormceptor (shared w/ FM)
  - ST6193 Lot B Rain Garden (shared w/ FM)
  - ST1792 City Manhole/Lot U outlet

C: UMD Storm Water Steering Committee
John King, UMD Facilities Management - Director
STORM WATER INSPECTION FORM

Outfall #: ____________________ Photograph Name: ____________________ Inspection Date: 10/29/2013

Pond Name: ____________________ Date of last inspection: 11/20/2012

Mechanical Structure #: ST1338 Type: Manhole Sump

Location: Lot Q-4 Drive - South

Inspector: Erik J. Larson

Weather: Air Temperature: 35 Rain: Y N Date of Last Rain: 10/27/2013 Sunny Cloudy

Describe drainage area: Lot Q-4 / LAIH

Shared Use: Y N Describe: Lot Q-4 / LAIH

Physical Observations

Condition of Device: Good Average Poor Work Needed: Y N

Describe Work Needed: N/A

Any Materials Within Structure: Deteriorating: Y N Describe:

Releasing Pollution: Y N Describe:

Capacity of Pipe: Size of pipe: _______ Depth of Water: 2"8" Has Source of Flow Been Determined: Y N

Source of Water: N/A

Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full Amount Remaining: Unknown

Flow: Performing Properly Full Overloaded Clogged Other: ________________

Work Needed: Y N Describe:

Odor: None Sewage Sulfide Oil Gas Rancid-Sour Other: ________________

Color: Normal Dark Brown Light Brown Other: ________________

Turbidity: None Cloudy Suspended Particles Other: ________________

Water Temperature: ______ F Not Available

Accumulated Materials

Floatables: None Sheen Foam Sewage Litter Other: Leaves Sample Collected: Y N

Oil in Oil Port: Y N N/A Measurement: Calculated: ________________

Describe Work Needed: N/A

Deposits: None Sediment Oily Describe: Sample Collected: Y N

Depth of Sediment: N/A Measurement: 3.5" Remaining Capacity ________________

Describe Work Needed: N/A

Stains: Y N Work Needed: Y N Describe:

Vegetation Conditions: Normal Excessive Growth Inhibited Growth Describe: ________________

Describe Work Needed: N/A

Erosion: None Minor Erosion Major Erosion Erosion Protected Y N

Describe Work Needed: N/A

Immediate Work Needed: Y N Describe:

Next Anticipated Work Date: ________________

Inspection Comments / Recommendations

Comments / Recommendations

Clean when sediment is within 2.5' from outlet pipe Completed Y N Date 

Look at plans for drainage area Completed Y N Date 

N 46 49.069 

W 92 05.336
# STORM WATER INSPECTION FORM

**Outfall #:** ____________________  **Photograph Name:** _______________  **Inspection Date:** 11/1/2013

**Pond Name:** ____________________  **Mechanical Structure #:** ST1346  **Type:** Manhole Sump  **Date of last inspection:** 12/5/2012

**Location:** Lot Q-4 - Middle MH  **Inspector:** Erik J. Larson

**Weather:**  **Air Temperature:** 40  **Rain:** Y N  **Date of Last Rain:** 10/31/2013  Sunny Cloudy

**Describe drainage area:** Lot Q-4 / LAIH  **Shared Use:** Y N  **Describe:** Lot Q-4 / LAIH

## Physical Observations

**Condition of Device:**  
- Good □ Average □ Poor □ Work Needed: Y □ N □ N/A □

**Any Materials Within Structure:**  
- Deteriorating: Y □ N □ Describe:_________

**Releasing Pollution:**  
- Y □ N □ Describe:_________

**Capacity of Pipe:**  
- Size of pipe: _______  **Depth of Water:** 3’  **Has Source of Flow Been Determined:** Y □ N □

**Source of Water:** N/A  **Describe Storage Capacity:** Minimal □ Less Than Half □ Greater Than Half □ Full □ Amount Remaining: Unknown □

**Flow:**  
- Performing Properly □ Full □ Overloaded □ Clogged □ Other:_________

**Work Needed:** Y □ N □ Describe:_________

**Odor:**  
- None □ Sewage □ Sulfide □ Oil □ Gas □ Rancid-Sour □ Other:_________

**Color:**  
- Normal □ Dark Brown □ Light Brown □ Other:_________

**Turbidity:**  
- None □ Cloudy □ Suspended Particles □ Other:_________

**Water Temperature:** F □ Not Available

## Accumulated Materials

**Floatables:**  
- None □ Sheen □ Foam □ Sewage □ Litter □ Other:_________  **Sample Collected:** Y □ N □

**Oil in Oil Port:**  
- Y □ N □ N/A □  **Measurement:** Calculated:_________

**Deposits:**  
- None □ Sediment □ Oily □ Describe:_________  **Sample Collected:** Y □ N □

**Depth of Sediment:** N/A □  **Measurement:** Unknown* □ Remaining Capacity Unknown □

**Deposits Work Needed:** N/A □

**Stains:**  
- Y □ N □ Work Needed: Y □ N □ Describe:_________

**Vegetation Conditions:**  
- Normal □ Excessive Growth □ Inhibited Growth □ Describe:_________

**Erosion:**  
- None □ Minor Erosion □ Major Erosion □ Erosion Protected □ Y □ N □

**Erosion Work Needed:** N/A □

**Immediate Work Needed:** Y □ N □ Describe:_________

Next Anticipated Work Date:_________

### Inspection Comments / Recommendations

**Comments / Recommendations**

<table>
<thead>
<tr>
<th>Clean when sediment is within 2.5’ from outlet</th>
<th>Completed</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y Y Y Y Y</td>
<td>Y N</td>
<td></td>
</tr>
</tbody>
</table>

N 46 49.072  
W 92 05.330
University of Minnesota Duluth

STORM WATER INSPECTION FORM

Outfall #: __________________________ Photograph Name: __________________________ Inspection Date: 10/29/2013

Pond Name: __________________________ Date of last inspection: 11/20/2012

Mechanical Structure #: ST1366 Type: Manhole Sump

Location: Lot Q-4 - North East Corner

Inspector: Erik J. Larson

Weather: Air Temperature: 35 Rain: Y [ ] N [ ] Date of Last Rain: 10/27/2013 Sunny [ ] Cloudy [ ]

Describe drainage area: Lot Q-4 / LAIH

Shared Use: [ ] Y [ ] N Describe: Lot Q-4 / LAIH

Physical Observations

<table>
<thead>
<tr>
<th>Condition of Device:</th>
<th>Good [ ]</th>
<th>Average [ ]</th>
<th>Poor [ ]</th>
<th>Work Needed: [ ] Y [ ] N [ ]</th>
</tr>
</thead>
</table>

Any Materials Within Structure: Deteriorating: [ ] Y [ ] N [ ] Describe:

Releasing Pollution: [ ] Y [ ] N [ ] Describe:

<table>
<thead>
<tr>
<th>Capacity of Pipe:</th>
<th>Size of pipe:</th>
<th>Depth of Water: 3’</th>
<th>Has Source of Flow Been Determined: [ ] Y [ ] N [ ]</th>
</tr>
</thead>
</table>

Source of Water: N/A

Describe Storage Capacity: Minimal [ ] Less Than Half [ ] Greater Than Half [ ] Full [ ] Amount Remaining: Unknown [ ]

Flow: Performing Properly [ ] Full [ ] Overloaded [ ] Clogged [ ] Other: [ ]

Work Needed: [ ] Y [ ] N Describe:

Odor: None [ ] Sewage [ ] Sulfide [ ] Oil [ ] Gas [ ] Rancid-Sour [ ] Other: [ ]

Color: Normal [ ] Dark Brown [ ] Light Brown [ ] Other: [ ]

Turbidity: None [ ] Cloudy [ ] Suspended Particles [ ] Other: [ ]

Water Temperature: F [ ] Not Available [ ]

Accumulated Materials

| Floatables: | None [ ] Sheen [ ] Foam [ ] Sewage [ ] Litter [ ] Other: [ ] Leaves [ ] Sample Collected: [ ] Y [ ] N [ ] |
|-------------|------------------------------------------------------|----------------|-----------------------------|

Oil in Oil Port: [ ] Y [ ] N N/A [ ] Measurement: [ ] Calculated: [ ]

Describe Work Needed: N/A [ ]

| Deposits: | None [ ] Sediment [ ] Oily [ ] Describe: [ ] Sample Collected: [ ] Y [ ] N [ ] |
|-----------|-----------------------------------------------|----------------|-----------------------------|

Depth of Sediment: N/A [ ] Measurement: 6” [ ] Remaining Capacity: Unknown [ ]

Describe Work Needed: N/A [ ]

| Stains: | Y [ ] N [ ] Work Needed: Y [ ] N [ ] Describe: [ ] |
|---------|-----------------------------------------------|----------------|-----------------------------|

Vegetation Conditions: Normal [ ] Excessive Growth [ ] Inhibited Growth [ ] Describe:

Describe Work Needed: N/A [ ]

| Erosion: | None [ ] Minor Erosion [ ] Major Erosion [ ] Erosion Protected [ ] Y [ ] N [ ] |
|----------|-----------------------------------------------|----------------|-----------------------------|

Describe Work Needed: N/A [ ]

Immediate Work Needed: Y [ ] N [ ] Describe:

Next Anticipated Work Date: __________________________

Inspection Comments / Recommendations

Comments / Recommendations

Completed: Y [ ] N [ ] Date: __________________________

Remove Sediment when it is within 2.5’ of outlet

Completed: Y [ ] N [ ] Date: __________________________

N 46 49.080
W 92 05.309

Printed - 11/8/2013
STORM WATER INSPECTION FORM

Outfall #: ___________________________ Photograph Name: ___________________________ Inspection Date: 10/29/2013

Pond Name: ___________________________ Date of last inspection: 11/20/2012

Mechanical Structure #: ST1486 Type: Stormceptor

Location: Corner Niagara Crt. And Village Lane

Inspector: Erik J. Larson

Weather: Air Temperature: 35 Rain: Y N Date of Last Rain: 10/27/2013 Sunny Cloudy

Describe drainage area: Parking Lot L-1

Shared Use: Y N Describe:

Physical Observations

Condition of Device: Good Average Poor Work Needed: Y N

Describe Work Needed: N/A

Any Materials Within Structure: Deteriorating: Y N Describe:

Releasing Pollution: Y N Describe:

Capacity of Pipe: Size of pipe: N/A Depth of Water: N/A Has Source of Flow Been Determined: Y N

Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full Amount Remaining: __________

Flow: Performing Properly Full Overloaded Clogged Other:

Work Needed: Y N Describe:

Odor: None Sewage Sulfide Oil Gas Rancid-Sour Other:

Color: Normal Dark Brown Light Brown Other:

Turbidity: None Cloudy Suspended Particles Other:

Water Temperature: F Not Available

Accumulated Materials

Floatables: None Sheen Foam Sewage Litter Other: Sample Collected: Y N

Oil in Oil Port: Y N N/A Measurement: Calculated:

Describe Work Needed: N/A

Deposits: None Sediment Oily Describe: Sample Collected: Y N

Depth of Sediment: N/A Measurement: 1-2” Remaining Capacity 6”

Describe Work Needed: N/A

Stains: Y N Work Needed: Y N Describe:

Vegetation Conditions: Normal Excessive Growth Inhibited Growth Describe:

Describe Work Needed: N/A

Erosion: None Minor Erosion Major Erosion Erosion Protected Y N

Describe Work Needed: N/A

Immediate Work Needed: Y N Describe:

Next Anticipated Work Date:

Inspection Comments / Recommendations

Comments / Recommendations Completed Date

N/A Y N

N/A Y N

Y N

Y N

N 46 49.122

W 92 05.351

Printed - 1/29/2014
**STORM WATER INSPECTION FORM**

Outfall #: __________________________ Photograph Name: __________________________ Inspection Date: 10/29/13

Pond Name: __________________________ Date of last inspection: 11/20/2012

Mechanical Structure #: ST1630 Type: Stormcepter 900

Location: Stormcepter on the north side of Lot W

Inspector: Erik J. Larson

Weather: Air Temperature: 35 Rain: Y N Date of Last Rain: 10/27/2013 Sunny Cloudy

Describe drainage area: Lot W/ Lot Q1/ Neighborhood above Brainerd Ave

Shared Use: Y N Describe: City SW flowing over hill side flows into inlet above Lot Q-1 and into Stormcepter

---

**Physical Observations**

**Condition of Device:** Good Average Poor Work Needed: Y N

- Describe Work Needed: N/A
- City outlet pipe appears to be plugged

- Any Materials Within Structure: Deteriorating: Y N Describe:
- Releasing Pollution: Y N Describe:

**Capacity of Pipe:**
- Size of pipe: N/A
- Depth of Water: N/A
- Has Source of Flow Been Determined: Y N

- Source of Water: N/A
- Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full
- Amount Remaining: __________

**Flow:**
- Performing Properly: Full Overloaded Clogged Other:
- Work Needed: Y N Describe: City outlet pipe plugged

**Odor:** None Sewage Sulfide Oil Gas Rancid-Sour Other:

**Color:** Normal Dark Brown Light Brown Other:

**Turbidity:** None Cloudy Suspended Particles Other:

**Water Temperature:** F Not Available

---

**Accumulated Materials**

**Floatables:** None Sheen Foam Sewage Litter Other:
- Oil in Oil Port: Y N N/A Measurement: Calculated: __________________________
- Describe Work Needed: N/A

**Deposits:** None Sediment Oily Describe: Minimal
- Depth of Sediment: N/A Measurement: __________ Remaining Capacity: __________
- Describe Work Needed: N/A

**Stains:** Y N Work Needed: Y N Describe:

**Vegetation Conditions:**
- Normal Excessive Growth Inhibited Growth Describe:
- Describe Work Needed: N/A

**Erosion:** None Minor Erosion Major Erosion Erosion Protected Y N
- Describe Work Needed: N/A

**Immediate Work Needed:** Y N Describe:

- Next Anticipated Work Date: Contact city (Todd Carlson)

---

**Inspection Comments / Recommendations**

Comments / Recommendations
- CITY CLEANS 3-4TIMES/YEAR PER TODD CARLSON WITH CITY Y N
- Outlet pipe is 1/2 full of water - City owned. Y N
- Same, except less sediment & road sand/gravel Y N
- 12 in. gravel over upstream catch basin Y N

- N 46 49.021
- W 92 05.446

---

Printed - 11/8/2013
# STORM WATER INSPECTION FORM

<table>
<thead>
<tr>
<th>Outfall #</th>
<th>Photograph Name</th>
<th>Inspection Date</th>
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<tbody>
<tr>
<td></td>
<td>12-ST2913</td>
<td>10/22/2013</td>
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<table>
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<tr>
<th>Pond Name</th>
<th>Date of last inspection</th>
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<tr>
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<table>
<thead>
<tr>
<th>Mechanical Structure #</th>
<th>Type</th>
<th>Location</th>
<th>Inspector</th>
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<tbody>
<tr>
<td>ST2913</td>
<td>Filtration Basin / Grass Swales</td>
<td>Chester Park</td>
<td>Erik J. Larson</td>
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<table>
<thead>
<tr>
<th>Weather</th>
<th>Air Temperature</th>
<th>Rain</th>
<th>Date of Last Rain</th>
<th>Sunny</th>
<th>Cloudy</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>35</td>
<td>Y</td>
<td>10/21/2013</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Describe drainage area: Lot R1, R2, R3, Chester Park, and Chester Park Driveway

Describe: Parking/Chester Park/Chester Park Driveway

## Physical Observations

### Condition of Device:
- Good
- Average
- Poor

Work Needed: Y N

Any Materials Within Structure:
- Deteriorating: Y N

Describe:

### Capacity of Pipe:
- Size of pipe: __________
- Depth of Water: 0
- Has Source of Flow Been Determined: Y N

Describe Storage Capacity:
- Minimal
- Less Than Half
- Greater Than Half
- Full
- Amount Remaining: ______

### Flow:
- Performing Properly
- Full
- Overloaded
- Clogged
- Other: __________

Work Needed: Y N

### Odor:
- None
- Sewage
- Sulfide
- Oil
- Gas
- Rancid-Sour
- Other: __________

Odor: __________

### Color:
- Normal
- Dark Brown
- Light Brown
- Other: __________

Color: __________

### Turbidity:
- None
- Cloudy
- Suspended Particles
- Other: __________

Turbidity: __________

### Water Temperature:
- F
- Not Available

Water Temperature: __________

### Accumulated Materials

#### Floatables:
- None
- Sheen
- Foam
- Sewage
- Litter
- Other: __________

Oil in Oil Port: Y N

Describe Work Needed: N/A

Sample Collected: Y N

#### Deposits:
- None
- Sediment
- Oily
- Describe: Minor, sandy

Depth of Sediment: N/A

Describe Work Needed: N/A

Sample Collected: Y N

#### Stains:
- Y N

Describe:

#### Vegetation Conditions:
- Normal
- Excessive Growth
- Inhibited Growth

Describe Work Needed: N/A

#### Erosion:
- None
- Minor Erosion
- Major Erosion
- Erosion Protected

Describe Work Needed: N/A

#### Immediate Work Needed:
- Y N

Describe:

### Inspection Comments / Recommendations

Comments / Recommendations:
- Installed November 2008 / Planted 2009
- Includes swales for R1,R2,R3
- Filtration basin extended in 2012 w/ demolition of 823

Completed Date
Y N ______
Y N ______
Y N ______
Y N ______
Y N ______

N 46 48.905
W 92 04.725

Printed - 1/29/2014
### Physical Observations

**Condition of Device:**
- Good
- Average
- Poor

**Work Needed:**
- Y
- N

**Any Materials Within Structure:**
- Deteriorating:
- N
- Y

**Release of Pollution:**
- Y
- N

**Capacity of Pipe:**
- Size of pipe: 42"
- Depth of Water: 0"

**Source of Water:**
- N/A

**Flow:**
- Performing Properly
- Full
- Overloaded
- Clogged
- Other:

**Odor:**
- None
- Sewage
- Sulfide
- Oil
- Gas
- Rancid-Sour
- Other:

**Color:**
- Normal
- Dark Brown
- Light Brown

**Turbidity:**
- None
- Cloudy
- Suspended Particles

**Water Temperature:**
- F
- Not Available

### Accumulated Materials

**Floatables:**
- None
- Sheen
- Foam
- Sewage
- Litter
- Other leaves

**Oil in Oil Port:**
- Y
- N
- N/A

**Measurement:**
- Sample Collected:
- Y
- N

**Deposits:**
- None
- Sediment
- Oily

**Depth of Sediment:**
- N/A

**Measurement:**
- Minor 2.5"

**Remainin Capacity:**
- N/A

**Stains:**
- Y
- N

**Vegetation Conditions:**
- Normal
- Excessive Growth
- Inhibited Growth

**Erosion:**
- None
- Minor Erosion
- Major Erosion
- Erosion Protected

**Immediate Work Needed:**
- Y
- N

**Next Anticipated Work Date:**

### Inspection Comments / Recommendations

**Completed**

<table>
<thead>
<tr>
<th>Comments / Recommendations</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is evidence of it having been completely filled</td>
<td>Y</td>
</tr>
<tr>
<td>2.5&quot; of sediment on bottom of tank</td>
<td>Y</td>
</tr>
<tr>
<td>1.3' of water at bottom</td>
<td>Y</td>
</tr>
</tbody>
</table>

N 46 48.904
W 92 04.737
### STORM WATER INSPECTION FORM

**Outfall #:**

**Photograph Name:**

**Inspection Date:** 10/22/2013

- **Pond Name:**
- **Date of last inspection:** 12/3/2012
- **Mechanical Structure #:** ST3583
- **Type:** Sand filter
- **Location:** Below Lot L-3 (Lower filter)
- **Inspector:** Erik J. Larson
- **Weather:**
  - **Air Temperature:** 35
  - **Rain:** Y
  - **Date of Last Rain:** 10/21/2013
  - **Sunny**
- **Describe drainage area:** Lot L-3
- **Shared Use:** Y

### Physical Observations

**Condition of Device:**

- **Good**
- **Average**
- **Poor**
- **Work Needed:** Y

**Any Materials Within Structure:**

- **Deteriorating:** Y
- **Describe:**

**Releasing Pollution:**

- **Y**
- **N**

### Capacity of Pipe

**Size of pipe:** N/A

**Depth of Water:** N/A

**Source of Water:** N/A

**Describe Storage Capacity:**

- **Minimal**
- **Less Than Half**
- **Greater Than Half**
- **Full**

**Amount Remaining:**

### Flow

**Flow:**

- **Performing Properly**
- **Full**
- **Overloaded**
- **Clogged**

**Work Needed:** Y

**Describe:**

### Odor

**Odor:**

- **None**
- **Sewage**
- **Sulfide**
- **Oil**
- **Gas**
- **Rancid-Sour**
- **Other:**

### Color

**Color:**

- **Normal**
- **Dark Brown**
- **Light Brown**
- **Other:**

### Turbidity

**Turbidity:**

- **None**
- **Cloudy**
- **Suspended Particles**
- **Other:**

**Water Temperature:** F Not Available

### Accumulated Materials

**Floatables:**

- **None**
- **Sheen**
- **Foam**
- **Sewage**
- **Litter**
- **Other:**

**Sample Collected:** Y

**Measurement:** Calculated:

**Oil in Oil Port:**

- **Y**
- **N**
- **N/A**

**Describe Work Needed:**

- **N/A**

**Deposits:**

- **None**
- **Sediment**
- **Oily**

**Describe:**

**Sample Collected:** Y

**Measurement:**

**Remaining Capacity:**

**Depth of Sediment:**

- **N/A**

**Describe Work Needed:**

- **N/A**

**Stains:**

- **Y**
- **N**

**Work Needed:** Y

**Describe:**

### Vegetation Conditions

**Describe Work Needed:** N/A

**Erosion:**

- **None**
- **Minor Erosion**

**Major Erosion**

**Erosion Protected**

**Y**

**N**

### Immediate Work Needed

- **Y**
- **N**

**Describe:**

### Inspection Comments / Recommendations

- **Completed**
- **Date**

**Overflow/ outlet structure - fine**

**Anticipate 2-5 year removal of top layers and replace sand**

**N 46 49.256**

**W 92 05.240**

**Multiple holes in sand & around edge - animals?**
## STORM WATER INSPECTION FORM

**Outfall #:**  
**Photograph Name:** 11-ST3593  
**Inspection Date:** 10/22/2013

**Pond Name:**  
**Mechanical Structure #:** ST3593  
**Type:** Sand filter  
**Location:** Below Lot L-3 (upper filter)  
**Inspector:** Erik J. Larson

**Weather:**  
- **Air Temperature:** 35°F  
- **Rain:** Y N  
- **Date of Last Rain:** 10/21/2013  
- **Weather Conditions:** Sunny Cloudy

**Describe drainage area:** L-3  
**Shared Use:** Y N  
**Describe:**

### Physical Observations

<table>
<thead>
<tr>
<th>Condition of Device</th>
<th>Work Needed</th>
<th>Describe Work Needed</th>
<th>Any Materials Within Structure</th>
<th>Work Needed</th>
<th>Describe Work Needed</th>
<th>Releasing Pollution</th>
<th>Work Needed</th>
<th>Describe Work Needed</th>
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<tbody>
<tr>
<td>Good</td>
<td>Y</td>
<td>N/A</td>
<td>Deteriorating</td>
<td>N</td>
<td>N/A</td>
<td>Y</td>
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<tr>
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<th>Odor</th>
<th>Color</th>
<th>Turbidity</th>
<th>Water Temperature</th>
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<tbody>
<tr>
<td>Performing Properly</td>
<td>Y</td>
<td>N/A</td>
<td>None</td>
<td>Normal</td>
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<tr>
<th>Accumulated Materials</th>
<th>Oil in Oil Port</th>
<th>Measurement</th>
<th>Deposits</th>
<th>Oil in Oil Port</th>
<th>Measurement</th>
<th>Depth of Sediment</th>
<th>Measurement</th>
<th>Description</th>
<th>Work Needed</th>
<th>Describe Work Needed</th>
<th>Depth of Sediment</th>
<th>Description</th>
<th>Work Needed</th>
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<th>Work Needed</th>
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<tbody>
<tr>
<td>None</td>
<td>Y N N/A</td>
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<td>None</td>
<td>Sediment</td>
<td></td>
<td>N/A</td>
<td></td>
<td></td>
<td>N/A</td>
<td>None</td>
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<table>
<thead>
<tr>
<th>Stains</th>
<th>Work Needed</th>
<th>Description</th>
<th>Vegetation Conditions</th>
<th>Describe Work Needed</th>
<th>Erosion</th>
<th>Major Erosion</th>
<th>Erosion Protected</th>
<th>Y N</th>
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<tbody>
<tr>
<td>Y N</td>
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<th>Description</th>
<th>Next Anticipated Work Date</th>
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<tr>
<td>Y N</td>
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### Inspection Comments / Recommendations

**Comments / Recommendations**

- [ ] Y  
- [ ] N  
- [ ] Y  
- [ ] N  
- [ ] Y  
- [ ] N  
- [ ] Y  
- [ ] N

N 46 49.248  
W 92 05.259

---

*Printed - 11/8/2013*
### University of Minnesota Duluth

**STORM WATER INSPECTION FORM**

Outfall #: __________________________ Photograph Name: __________________________ Inspection Date: 10/22/2013

Pond Name: __________________________ Date of last inspection: 12/5/2012

Mechanical Structure #: ST3982 Type: Filtration Basin

Location: Lot T-2

Inspector: Erik J. Larson

Weather: Air Temperature: 35 Rain: Y N Date of Last Rain: 10/21/2013 Sunny Cloudy

Describe drainage area: T-2

Shared Use: Y N Describe: Parking and Materials Storage Area above parking lot

---

### Physical Observations

**Condition of Device:** Good

Work Needed: Y N

Any Materials Within Structure: Deteriorating: Y N

Describe: Releasing Pollution: Y N

Describe: Rock Pond would catch any sediment

**Capacity of Pipe:** Size of pipe: N/A Depth of Water: N/A

Has Source of Flow Been Determined: Y N

Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full

Amount Remaining:

**Flow:** Performing Properly Overloaded Clogged Other:

Work Needed: Y N

Describe:

**Odor:** None Sewage Sulfide Oil Gas Rancid-Sour Other:

Describe:

**Color:** Normal Dark Brown Light Brown Other:

Describe:

**Turbidity:** None Cloudy Suspended Particles Other:

Describe:

**Water Temperature:** F Not Available

---

### Accumulated Materials

**Floatables:** None Sheen Foam Sewage Litter Other: Significant Organics

Sample Collected: Y N

Oil in Oil Port: Y N N/A

Measurement: Minor Calculated:

Describe Work Needed: N/A

**Deposits:** None Sediment Oily Describe:

Sample Collected: Y N

Depth of Sediment: N/A Measurement: Minor Remaining Capacity

Describe Work Needed: N/A

**Stains:** Y N Work Needed: Y N

Describe:

**Vegetation Conditions:** Normal Excessive Growth Inhibited Growth

Describe:

**Erosion:** None Minor Erosion Major Erosion Erosion Protected Y N

Describe Work Needed: N/A

---

### Immediate Work Needed:

Immediate Work Needed: Y N

Describe:

---

### Inspection Comments / Recommendations

Comments / Recommendations

Reconstruction 2011

Completed Date

Y N 11/18/2013

Y N 11/18/2013

Completed Date

Y N

Y N

Y N

Y N

Y N

---

Printed - 1/29/2014
University of Minnesota Duluth

STORM WATER INSPECTION FORM

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<th>Outfall #</th>
<th>Photograph Name</th>
<th>Inspection Date: 10/29/2013</th>
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<tr>
<td>Mechanical Structure #: ST4591</td>
<td>Type: Overflow structure/tank</td>
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<tr>
<td>Location: East Lot G</td>
<td></td>
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<tr>
<td>Inspector: Erik J. Larson</td>
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<tr>
<td>Weather: Air Temperature: 35</td>
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<tr>
<td>Describe drainage area: Parking Lot G</td>
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<tr>
<td>Weather: Date of Last Rain: 10/27/2013 Sunny Cloudy</td>
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### Physical Observations

<table>
<thead>
<tr>
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<th>Poor</th>
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<tr>
<td>Any Materials Within Structure:</td>
<td>Deteriorating: Y N</td>
<td>Describe:</td>
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<td>Releasing Pollution:</td>
<td>Y N</td>
<td>Describe:</td>
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<td>Capacity of Pipe:</td>
<td>Size of pipe: 6'</td>
<td>Depth of Water: 3.5'</td>
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<td>Source of Water:</td>
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<td>Describe:</td>
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<td>Flow:</td>
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<td>Full</td>
<td>Overloaded</td>
<td>Clogged</td>
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<td>Work Needed:</td>
<td>Y N</td>
<td>Describe:</td>
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<tr>
<td>Odor:</td>
<td>None</td>
<td>Sewage</td>
<td>Sulfide</td>
<td>Oil</td>
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<td>Color:</td>
<td>Normal</td>
<td>Dark Brown</td>
<td>Light Brown</td>
<td>Other:</td>
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<td>Turbidity:</td>
<td>None</td>
<td>Cloudy</td>
<td>Suspended Particles</td>
<td>Other:</td>
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<td>Water Temperature:</td>
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### Accumulated Materials

<table>
<thead>
<tr>
<th>Floatables:</th>
<th>None</th>
<th>Sheen</th>
<th>Foam</th>
<th>Sewage</th>
<th>Litter</th>
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<tbody>
<tr>
<td>Oil in Oil Port:</td>
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<td>Oily</td>
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<td>minor</td>
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<td>Remaining Capacity</td>
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<td>Stains:</td>
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<td>Work Needed: Y N</td>
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<tr>
<td>Vegetation Conditions:</td>
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<td>Excessive Growth</td>
<td>Inhibited Growth</td>
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<tr>
<td>Erosion:</td>
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<td>Minor Erosion</td>
<td>Major Erosion</td>
<td>Erosion Protected: Y N</td>
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### Inspection Comments / Recommendations

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<tr>
<th>Comments / Recommendations</th>
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<th>Date</th>
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<td>No problems</td>
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<td>Middle manhole done ‘11</td>
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<tr>
<td>Upper manhole done ‘12</td>
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<tr>
<td>Lower Manhole done ‘13</td>
<td>Y N</td>
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<tr>
<td>N 46 49.260</td>
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<tr>
<td>W 92 04.899</td>
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</table>
### Physical Observations

**Condition of Device:** Good  
**Average**  
**Poor**  
**Work Needed:** Y  
**N**  

**Any Materials Within Structure:** Deteriorating: Y  
**N**  

**Releasing Pollution:** Y  
**N**  

**Capacity of Pipe:** Size of pipe: N/A  
**Depth of Water:** 4'9"  
**Has Source of Flow Been Determined:** Y  
**N**  

**Source of Water:** N/A  

**Describe Storage Capacity:** Minimal  
**Less Than Half**  
**Greater Than Half**  
**Full**  
**Amount Remaining:**  

**Flow:** Performing Properly  
**Full**  
**Overloaded**  
**Clogged**  
**Other:**  

**Work Needed:** Y  
**N**  

**Odor:** None  
**Sewage**  
**Sulfide**  
**Oil**  
**Gas**  
**Rancid-Sour**  
**Other:**  

**Color:** Normal  
**Dark Brown**  
**Light Brown**  
**Other:**  

**Turbidity:** None  
**Cloudy**  
**Suspended Particles**  
**Other:**  

**Water Temperature:** F  
**Not Available**  

**Accumulated Materials**

**Floatables:** None  
**Sheen**  
**Foam**  
**Sewage**  
**Litter**  
**Other:**  

**Oil in Oil Port:** Y  
**N**  

**Describe Work Needed:** N/A  

**Deposits:** None  
**Sediment**  
**Oily**  
**Describe:** Mino  

**Sample Collected:** Y  
**N**  

**Depth of Sediment:** N/A  
**Measurement:** 1"  
**Remaining Capacity**  

**Describe Work Needed:** N/A  

**Stains:** Y  
**N**  

**Vegetation Conditions:** Normal  
**Excessive Growth**  
**Inhibited Growth**  

**Describe Work Needed:** N/A  

**Erosion:** None  
**Minor Erosion**  
**Major Erosion**  

**Erosion Protected**  
**Y**  
**N**  

**Immediate Work Needed:** Y  
**N**  

**Next Anticipated Work Date:**

### Inspection Comments / Recommendations

**Comments / Recommendations**  

**Completed**  
**Date**

Y  
N  

Y  
N  

Y  
N  

Y  
N  

**Unconsolidated sediment only**

N 46 49.258  
W 92 04.895
Outfall #: ___________________ Photograph Name: ___________________ Inspection Date: 10/29/2013

Pond Name: ___________________ Date of last inspection: 11/20/2012

Mechanical Structure #: ST4623 Type: Sand Filter

Location: Lot E

Inspector: Erik J. Larson

Weather: Air Temperature: 35 Rain: Y N Date of Last Rain: 10/27/2010 Sunny Cloudy

Describe drainage area: Lot E

Shared Use: Y N Describe:

Physical Observations

Condition of Device: Good Average Poor Work Needed: Y N

Describe Work Needed: N/A

Any Materials Within Structure: Deteriorating: Y N Describe:

Releasing Pollution: Y N Describe:

Capacity of Pipe:

Size of pipe: N/A Depth of Water: 0.5" Has Source of Flow Been Determined: Y N

Source of Water: Lot E

Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full Amount Remaining: 100%

Flow:

Performing Properly Full Overloaded Clogged Other:

Work Needed: Y N Describe:

Odor:

None Sewage Sulfide Oil Gas Rancid-Sour Other:

Color:

Normal Dark Brown Light Brown Other: N/A

Turbidity:

None Cloudy Suspended Particles Other: N/A

Water Temperature:

F Not Available

Accumulated Materials

Floatables:

None Sheen Foam Sewage Litter Other: Leaves Sample Collected: Y N

Oil in Oil Port: Y N N/A Measurement: Sheen Calculated:

Describe Work Needed: N/A

Deposits:

None Sediment Oily Describe:

Sample Collected: Y N

Depth of Sediment: 1/2" Measurement: Minor in filtration or Remaining Capacity

Describe Work Needed: N/A Inlet needs to be cleaned of sediment plume and rocks

Stains:

Y N Work Needed: Y N Describe:

Vegetation Conditions:

Normal Excessive Growth Inhibited Growth Describe:

Describe Work Needed: N/A

Erosion:

None Minor Erosion Major Erosion Erosion Protected Y N

Describe Work Needed: N/A

Immediate Work Needed: Y N Describe:

Next Anticipated Work Date: Summer 2014

Inspection Comments / Recommendations

Comments / Recommendations Completed Date

Large rocks should be moved, 10' area below of pipe cleaned Y N

Check in "14 to clean top 1/2" silts Y N

YNYN
STORM WATER INSPECTION FORM

Outfall #: ___________________________ Photograph Name: ___________________________ Inspection Date: 10/29/2013

Pond Name: ___________________________ Date of last inspection: 11/20/2012

Mechanical Structure #: ST5146 Type: Stormceptor

Location: Lot M/ RWBFGM Stormceptor

Inspector: Erik J. Larson

Weather: Air Temperature: 35 Rain: Y N Date of Last Rain: 10/27/2013 Sunny Cloudy

Describe drainage area: Lot M/FGM

Shared Use: Y N Describe: Parking

Physical Observations

Condition of Device: Good Average Poor Work Needed: Y N

Describe Work Needed: N/A

Any Materials Within Structure: Deteriorating: Y N Describe:

Releasing Pollution: Y N Describe:

Capacity of Pipe: Size of pipe: N/A Depth of Water: 4’9” Has Source of Flow Been Determined: Y N

Source of Water: N/A

Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full Amount Remaining: _________

Flow: Performing Properly Full Overloaded Clogged Other:

Work Needed: Y N Describe:

Odor: None Sewage Sulfide Oil Gas Rancid-Sour Other:

Color: Normal Dark Brown Light Brown Other:

Turbidity: None Cloudy Suspended Particles Other:

Water Temperature: F Not Available

Accumulated Materials

Floatables: None Sheen Foam Sewage Litter Other: Sample Collected: Y N

Oil in Oil Port: Y N N/A Measurement: Calculated: _________

Describe Work Needed: N/A

Deposits: None Sediment Oily Describe: Sample Collected: Y N

Depth of Sediment: N/A Measurement: 0” Remaining Capacity 8”

Describe Work Needed: N/A

Stains: Y N Work Needed: Y N Describe:

Vegetation Conditions: Normal Excessive Growth Inhibited Growth Describe:

Describe Work Needed: N/A

Erosion: None Minor Erosion Major Erosion Erosion Protected Y N

Describe Work Needed: N/A

Immediate Work Needed: Y N Describe:________

Next Anticipated Work Date: ___________________________

Inspection Comments / Recommendations

Comments / Recommendations

Outlet pipe has 1/2” water

Sample Collected: Y N

Completed: Y N

Date: ______

N 46 49.173

W 92 04.708

Printed - 1/29/2014
University of Minnesota Duluth

STORM WATER INSPECTION FORM

Outfall #: ____________________________ Photograph Name: ____________________________ Inspection Date: 10/22/13

Pond Name: ____________________________ Date of last inspection: 12/05/12

Mechanical Structure #: ST6193 Type: Rain Garden

Location: Behind Lund building & Lot B

Inspector: Erik J. Larson

Weather: Air Temperature: 35 Rain: Y N Date of Last Rain: 10/21/2013 Sunny Cloudy

Describe drainage area: North 1/2 of Lot B

Shared Use: Y N Describe:

Physical Observations

Condition of Device: Good Average Poor Work Needed: Y N

Describe Work Needed: N/A

Clean Out Sediment Basin

Any Materials Within Structure: Deteriorating: Y N Describe:

Releasing Pollution: Y N Describe:

Capacity of Pipe: Size of pipe: N/A Depth of Water: N/A Has Source of Flow Been Determined: Y N

Describe Storage Capacity: Minimal Less Than Half Greater Than Half Full Amount Remaining: ____________

Flow: Performing Properly Full Overloaded Clogged Other: ____________

Work Needed: Y N Describe: ____________

Odor: None Sewage Sulfide Oil Gas Rancid-Sour Other: ____________

Color: Normal Dark Brown Light Brown Other: ____________

Turbidity: None Cloudy Suspended Particles Other: ____________

Water Temperature: F Not Available

Accumulated Materials

Floatables: None Sheen Foam Sewage Litter Other: ____________ Sample Collected: Y N

Oil in Oil Port: Y N N/A Measurement: ____________ Calculated: ____________

Describe Work Needed: N/A

Deposits: None Sediment Oily Describe: Minor in garden Sample Collected: Y N

Depth of Sediment: N/A Measurement: ____________ Remaining Capacity ____________

Describe Work Needed: N/A

Sediment in containment area

Stains: Y N Work Needed: Y N Describe: ____________

Vegetation Conditions: Normal Excessive Growth Inhibited Growth Describe: ____________

Describe Work Needed: N/A

Erosion: None Minor Erosion Major Erosion Erosion Protected Y N

Describe Work Needed: N/A

Previous, minor erosion along Lot B; unknown because it was buried in snow

Immediate Work Needed: Y N Describe: Clean Out Sediment Basin

Next Anticipated Work Date: October/November 2013

Inspection Comments / Recommendations

Comments / Recommendations

Minor Erosion along Lot B –(Continue to watch)

Sediment basin needs to be cleaned before winter

Completed Date: Y 11/14/13

N 46 48.916
W 92 05.037

Printed - 1/29/2014
Outfall #: ST1792  Photograph Name: 13-ST1792  Inspection Date: 1/29/2013  
Pond Name:  
Mechanical Structure #:  
Type:  
Location: Junction Ave by center walk from Lot U  
Inspector: Erik J. Larson  
Weather: Air Temperature: 45  Rain: Y N  Date of Last Rain: 10/27/13  Sunny  Cloudy  
Date of Last Inspection: 10/23/2009  

Describe drainage area: Mid Section of Lot U  
Shared Use: Y N  Describe: Parking  

---

**Physical Observations**

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Describe Work Needed: N/A  
Sample Collected: Y N  

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**Floatables**

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<th>Other</th>
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Describe Work Needed: N/A  
Sample Collected: Y N  

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**Vegetation Conditions**

<table>
<thead>
<tr>
<th>Vegetation Conditions</th>
<th>Erosion</th>
<th>Condition</th>
<th>Work Needed</th>
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---

**Inspection Comments / Recommendations**

Comments / Recommendations:  
City of Duluth Catch Basin:  
Our connection to MH needs to be tuckpointed  
Email sent to City: Y N  
This manhole is in bad condition, sinkhole, needs to be rebuilt'  

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MPCA Permit Requirements (Annual)
Section V.G.6.b.2-6  
* Inspection of structural pollution control devices  
* Inspect 20% of outfalls and ponds  
* Note repair, replacement, and/or maintenance needed including schedule for completion  
* Summarize inspection results for annual report  

N 46 49.161  
W 92 5.435