2019 SSTS Contractor Meeting
Carver County Environmental Services
Lori Brinkman
Senior Environmentalist
• SSTS Program Design Review and Approval, Inspections, Operating Permits
  • lbrinkman@co.carver.mn.us
  • 952-361-1811
  • 612-710-2524

Joe Enfield
Lead Environmentalist
• TMDL, SSTS Grants and Low Interest Loans, SSTS Reporting, Enforcement
  • jenfield@co.carver.mn.us
  • 952-361-1801

SSTS Support
Brad Hanzel
Marcus Zbinden
Al Langseth
Kathy Koll

2018 Carver County SSTS Staff
Administrative Changes

Kathy Koll
- Receive Permit Applications
- Issue Permits
- General Form Submittal – Maintenance Records, Compliance Inspections, Abandonment
- 952-361-1800
- ssts@co.carver.mn.us
SSTS Program Functions

- SSTS@co.carver.mn.us
- 952-361-1800
- EVERYTHING is to be directed to the above contact information
- Anything directed elsewhere is just extra work and confusion
- Be patient during the transition
# SSTS Ordinance Changes

<table>
<thead>
<tr>
<th>Repeal</th>
<th>Carver County 52.057 – SSTS Employing Artificial Drainage (Curtain Drains)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Updates</td>
<td>Rule updates, grammar, typos</td>
</tr>
<tr>
<td>Building Permit Requirement</td>
<td>Clarify permit requirement – Carver County 52.074</td>
</tr>
<tr>
<td>Property Lines</td>
<td>Clarify property line survey requirement – Carver County 52.022</td>
</tr>
</tbody>
</table>
Building Permit Requirements

• § 52.074 SSTS CONSTRUCTION PERMIT REQUIRED TO OBTAIN BUILDING PERMIT.

• For any property on which an SSTS construction permit is required, approval and issuance of a valid SSTS construction permit must be obtained before in conjunction with a building or land use permit may be issued by the Carver County Public Services Health and Environment Division.
Verifying Property Lines

Previous Language -
When lot size prohibits meeting the required ten-foot setback from the toe of the slope, the ten-foot setback may be measured from the absorption area, with Department approval and a survey verifying the proposed setback. The survey must be provided by the property owner at the property owner’s expense.

Current Language -
When lot size prohibits meeting the required ten-foot setback from the toe of the slope, the ten-foot setback may be measured from the absorption area, with Department approval. A survey provided by the property owner, at the property owners expense may also be required.
SSTS Staff Discretion – Property Lines

Assumed Property Lines

GPS of Property Line Pins
SSTS Loan Program and Escrow Requirements

• SSTS Loan amount increase to $20,000.00 with a five(5) year payback.

• Working to improve/shorten the process to issue funds to contractor.

• Escrow requirement has increased to $20,000.00.

• Variations based on conditions with ES staff approval.
Carver County Operating Permit/Maintenance Agreement

- Maintenance Agreement Workflow
  - Submit Holding Tank Design to the County
  - County review for approval
  - If accepted, the County will create an operating permit/maintenance agreement to be sent to the homeowner
  - Homeowner signs and obtains maintainers signature – no subcontracting
  - Submitted to County for final approval
Tank Maintenance and Submitting Records

- Identify the property
- Identify the system
- Date the pumping occurred
- Number of gallons removed
- Tank leakage
- Disposal Location
## Reusing Tanks in Non-Conforming Locations

<table>
<thead>
<tr>
<th>Assess</th>
<th>Certify</th>
<th>Obtain</th>
</tr>
</thead>
</table>
| Assess the location according to 7080.2000  
  - Is it under a deck, staircase, or other placement issues?  
  - Put yourself in the maintainers shoes | Certify the tank for reuse – pump and inspect | Obtain a variance if there is a setback issue |
GPS to the Rescue!!

Taking advantage of GPS located information can save time and money.
UH-OH!

• More soil borings
• Possibility of rebuilding the entire mound.
• Lost time.
• Call for verification – I’ll fit it in when I’m out in the field.
Carver County Code requires 3375 gallons septic tank capacity for a 5 bedroom house with a garbage disposal. What would be an acceptable septic tank series?

A) 2250-2 (1608/826) and a 1500-2 (1060/541)
B) 2500-3 (1056/567/1115) and a 1000
C) 2000-2 (1084/1084) and a 1500
D) 2500-2 (1661/1077) and a 1000
E) C and D
F) It doesn’t matter as long as it all runs downhill
7080 Rule Requirement

- 7080.1940 (B) states when tanks are connected in series, each tank or compartment must contain at least 25% of the required total liquid capacity.
- The previous example requires each compartment to have 844 gallons.
- One particular installation last season did not meet code.
- The tanks were already set and connected so they were allowed to stay in place, but a note was made in the inspection report.
- As-built **REQUIRED** from the installer.
Compliance Inspection Issues

- Compliance Criteria for existing SSTS
  - Impact on Public Health
  - Tank Integrity
  - Other Compliance Conditions – Maintenance hole covers, electrical, not protective of groundwater (seepage pit, cesspool, etc)
- Soil Separation
- Have Operating Permit requirements been met?

What about system age? System size?
<table>
<thead>
<tr>
<th>SSTS Install Date</th>
<th>Compliance Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1999</td>
<td>Compliance Inspection 2018 - 4 bedroom system</td>
</tr>
<tr>
<td></td>
<td>Sold 2018 - 5 bedroom home</td>
</tr>
<tr>
<td>1982</td>
<td>Compliance Inspection 8/29/2018</td>
</tr>
<tr>
<td></td>
<td>Property transferred but Carver County received a phone call inquiring how it could have passed based on the age of the system</td>
</tr>
<tr>
<td>1995</td>
<td>Compliance inspection 9/22/2014</td>
</tr>
<tr>
<td></td>
<td>Property transfer 6/10/2015</td>
</tr>
<tr>
<td></td>
<td>System failure and replacement 2018</td>
</tr>
</tbody>
</table>
MPCA does not currently plan to change compliance criteria

Recommend Inspectors fully document system performance concerns

<table>
<thead>
<tr>
<th>System sizing</th>
<th>System use</th>
<th>Performance concerns – ponding</th>
<th>Visible concerns around the perimeter of the mound</th>
<th>System age</th>
</tr>
</thead>
</table>

Education

Take Away
Proofing Your Work

• We all make mistakes
• Concerns - Repeated mistakes
  • Design sheets used as a templates
  • Lack of signatures
  • Not reading the permit conditions
Installing in Frozen Conditions

• What is too frozen?
  • Should first aim to install in optimum conditions
  • If the layer that the system is installed is not frozen and below the plastic limit the SSTS can be installed.

• 4” or less of frost
• Frost blankets or other cover.
• Special measures for backfilling and final grade.
Installer Questions and Concerns