Construction Report

Date: June 12, 2020

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Project: Woodcrest Biochar- and Iron-Enhanced Sand Filter

Job No.: PAN 19-03, Wenc #B1239-0100-03

Client: Coon Creek Watershed District

Contractor: Peterson Companies, Inc.

Project Manager: Jake Sikora

Average Field Force

<table>
<thead>
<tr>
<th>Name of Contractor</th>
<th>Administration</th>
<th>Labor</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
<td>Tom Martens</td>
<td>Troy Goranson</td>
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Visitors

<table>
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<td>8:00-9:00</td>
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<td>Coon Creek Watershed District</td>
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<tr>
<td>8:00-9:00</td>
<td>Mark Hansen</td>
<td>City of Coon Rapids</td>
</tr>
<tr>
<td>8:00-9:00</td>
<td>Erik Megow</td>
<td>Wenc Associates Inc</td>
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Equipment at the Site

Skidsteer with multiple attachments, dumpster

Unusual Items

Site walkthrough with engineer, CCWD and City of Coon Rapids. Reviewed punch list from previous meeting and requested crew clean off trail prior to demobilizing, cut groundwater trench drain tile cleanouts flush with the ground in a manner that a mower cannot impact them, rake filter media to remove equipment ruts, repurpose excess biologs onsite to be placed along Woodcrest creek bank slope until vegetated, cutoff excess and secure tracer wire on cleanout and outlet pipes.

Watershed District to:

- Update Dan with frisbee golf course
- Remove temporary locks from sample ports and outlet pipes to allow for as-built survey next week
- Obtain locks and key from City of Coon Rapids for permanent deployment following as-built survey
- Deploy monitoring equipment and drain tile concealment rocks in next few weeks as construction is closed out
- Schedule final site walkthrough with city maintenance staff
- Coordinate install of Balsam fir near tee box
- Coordinate installing brush species along trail to establish screen and maintain traffic on trail

Plan to keep pond in drawn down condition until groundwater trench bypass can be constructed which is tentatively scheduled for early July however will be weather, schedule and site condition dependent.

Construction Activities

Dumpster hauled from site. Crew completed remaining work as described above and finished installing seed and blanket over all disturbed areas. Crew demobilized equipment, debris and materials. Crew noted they installed more erosion control blanket than specified. Consulted with Engineer and determined that specification estimate was based on an aerial image measurement so did not account for slope or a 1-foot material overlap as required by the material manufacturer.

Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator
Construction Report

Date: June 11, 2020

Day

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Weather

Temperature: °F

- <32
- 32-50
- 50-70
- 70-85
- 85-100
- >100

Temp. °F

- Bright
- Sunny
- Over-cast
- Rain
- Snow

- <32
- 32-50
- 50-70
- 70-85
- 85-100
- >100

Paved Trail: Noted paved trail was constructed close to filter outlet plumbing reducing ability to establish 4-foot shoulder and slope within available space.

Construction Activities

Crew addressed several minor final grading requests by owner. Redundant silt fence within pond removed now that clay berm is vegetated and site conditions are favorable for removal. Crew began seeding and blanketing disturbed areas throughout the site.

Average Field Force

| Name of Contractor | Administration Labor Remarks |
|--------------------|-----------------------------|-----------------------------|
| Peterson Companies, Inc. | Tom Martens Troy Goranson |

Visitors

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Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator
Construction Report

Date: June 10, 2020

PROJECT: Woodcrest Biochar- and Iron-Enhanced Sand Filter

Weather:
- Bright
- Sunny
- Overcast
- Rain
- Snow

Temp. °F:
- <32
- 32-50
- 50-70
- 70-85
- 85-100
- >100

Wind:
- Still
- Moder.
- High

Report No. 36

CLIENT: Coon Creek Watershed District

CONTRACTOR: Peterson Companies, Inc.

JOB NO.: PAN 19-03, Wenck #B1239-0100-03

PROJECT MANAGER: Jake Sikora

Average Field Force:

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<td>Coon Creek Watershed District</td>
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Equipment at the Site:
Skidsteer with multiple attachments, dumpster

Unusual Items:

Construction Activities:
Crew worked on grading access road and pond bank.

Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator
## Construction Report

Date: June 9, 2020

### PROJECT
- Woodcrest Biochar- and Iron-Enhanced Sand Filter

### JOB NO.
- PAN 19-03, Wenck #B1239-0100-03

### CLIENT
- Coon Creek Watershed District

### CONTRACTOR
- Peterson Companies, Inc.

### PROJECT MANAGER
- Jake Sikora

### Weather
- Bright
- Sunny
- Overcast
- Rain
- Snow

### Temp. °F
- <32
- 32-50
- 50-70
- 70-85
- 80-100
- >100

### Wind
- Still
- Moder.
- High

### Humidity
- Dry
- Moder.
- Humid

### Average Field Force

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### Visitors
- Time: 12:30-1:00
- Name: Jon Janke
- Representing: Coon Creek Watershed District
- Remarks

### Equipment at the Site
- Skidsteer with multiple attachments, dumpster, trail paving equipment

### Unusual Items
- Some minor, non-damaging, vandalism of large drawing in the western cell by using a stick to draw in the iron-sand. Will grade out prior to demolishing from site but should note to monitor this type of activity in the future.

### Construction Activities
- Crew imported approximately 18 cubic yards of reclaim material from City of Coon Rapids Public Works. Crew graded and compacted reclaim material along 10-foot-wide trail to establish bituminous base at design grade. Bituminous Roadways Inc hauled in asphalt and paved 10-foot-wide trail. Crew established a wide apron to tie into existing trail.

- Crew indicated the City Utility Locator was onsite previously and approved the trace wire connectivity.

- Crew added clay along western end of berm where soft and compacted to finish grade. Completed gravel installation to final grade along entire berm tying into higher elevation pond banks on either end. Spread topsoil along edge of gravel to form uniform slope along berm.

- Crew plans to begin final grading and site restoration as they back out of the site. Plan is to start near the trail intersection and grade along new trail. Will backfill sink hole.

### Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title: Operations and Maintenance Coordinator

---

CM 401 (Revised 12/12/2011)
Construction Report

Date: June 8, 2020

Project: Woodcrest Biochar- and Iron-Enhanced Sand Filter

Weather:
- S: Bright
- M: Sunny
- T: Over-cast
- W: Rain
- Th: Snow

Temp. °F
- Sun: <32
- M: 32-50
- T: 50-70
- W: 70-85
- Th: 85-100
- F: 100

Wind:
- Still
- Mod.
- High

Report No.: 34

CONTRACTOR: Peterson Companies, Inc.

Average Field Force

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Equipment at the Site
Skidsteer with multiple attachments, dumpster, mid-size backhoe

Unusual Items

Construction Activities
Crew graded berm and began to spread gravel to final grade. Crew plans to complete gravel installation and transport reclaim material for trail base from city public works tomorrow. Weather permitting pave trail Wednesday/Thursday.

Crew noted biochar iron sand cell was not at final grade despite proper material quantity being added. Suspect that some volume loss between biochar as shipped vs tilled into iron sand.

Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator
Construction Report

Date: June 3, 2020

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Day

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<tr>
<th>PROJECT MANAGER</th>
<th>Jake Sikora</th>
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Average Field Force

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<td>Coon Creek Watershed District</td>
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Equipment at the Site

Skidsteer with multiple attachments, dumpster, mid-size backhoe

Unusual Items

Construction Activities

Lath has been installed along berm indicating placement of gravel. No work today due to crew being on another construction site. Plan is to resume work early next week.

Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator
Construction Report

Date: May 29, 2020

PROJECT: Woodcrest Biochar- and Iron-Enhanced Sand Filter

Weather: Bright

JOB NO.: PAN 19-03, Wenck #B1239-0100-03

CLIENT: Coon Creek Watershed District

Temp. °F: <32

CONTRACTOR: Peterson Companies, Inc.

Wind: Still

PROJECT MANAGER: Jake Sikora

Humidity: Dry

Report No.: 32

Visitors

Time | Name | Representing | Remarks
---|------|--------------|------
2:00-2:30 | Jon Janke | Coon Creek Watershed District | 

Equipment at the Site

Skidsteer with multiple attachments, dumpster, mid-size backhoe

Unusual Items

Posted COVID-19 informational flyer at construction signage.

Construction Activities

Crew not onsite at time of visit. Groundwater trench drain tile stub with tracer wire had been installed and the area backfilled and lightly graded. Filter outlet pipe was mitered. Clay was added to central berm and leveled to final grade. Some aggregate was delivered to the site and placed along the berm but not spread. Backhoe was unable to excavate cattail mats near pond outlet structure. Tree protection fencing was partially removed. Crew plans to return next week to complete remaining punch list items.


By Jon Janke Title Operations and Maintenance Coordinator
Construction Report

Date: May 28, 2020

Weather:

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Temp. °F:

<32 | 32-50 | 50-70 | 70-85 | 85-100 | >100

Wind:

Still | Moder. | High | Report No. 31

Humidity:

Dry | Moder. | Humid |

Average Field Force

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Equipment at the Site

Skidsteer with multiple attachments, dumpster, mid-size backhoe

Unusual Items

Door stolen off skidsteer. Contractor filed police report.

Construction Activities

Crew continued spreading biochar throughout eastern cell and tilling into the iron sand media using a tiller skidsteer attachment and hand shoveling around the cleanouts. Installed groundwater trench drain tile stub with tracer wire. Coordinated tracer wire connectivity test with city locator. Imported loads of clay and iron-sand to complete final grading of the filter media and berm. Started grading northern hillside to allow time for settling. Crew plans to install gravel, trail, access road, seed and blanket by early next week.

Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title: Operations and Maintenance Coordinator

By Jon Janke
Title: Operations and Maintenance Coordinator
Construction Report

Date: May 27, 2020

Weather

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Report No. 30

Average Field Force

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<td>2:00-3:00</td>
<td>Jon Janke</td>
<td>Coon Creek Watershed District</td>
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Equipment at the Site

Skidsteer with multiple attachments

Unusual Items

1-2 inch rain storm over night. Water level remained at or below filter berm. Returned to ‘normal’ flow around 10am.

Construction Activities

Crew continued spreading biochar throughout eastern cell and tilling into the iron sand media using a tiller skidsteer attachment and hand shoveling around the cleanouts. Crew needed to traverse the biochar sacks from the delivery location near Woodcrest drive over the muddy access road to the filter area. Crew took care to clean skidsteer prior to reentering the filter area to minimize tracking and contamination of the filter media.

Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator
Construction Report

Date: May 26, 2020

PROJECT: Woodcrest Biochar- and Iron-Enhanced Sand Filter

Weather: Bright Sunny Overcast Rain Snow

Temp. °F: <32 32-50 50-70 70-85 85-100 >100

Wind: Still Moder High Report No. 29

Humidity: Dry Moder Humid

Average Field Force

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<td>Coon Creek Watershed District</td>
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Equipment at the Site

Skidsteer with multiple attachments

Unusual Items

Construction Activities

Crew cut and graded access road along northern perimeter of pond. Biochar previously delivered to site in 1.8 cubic yard tote sacks. Crew began spreading biochar throughout eastern cell and tilling into the iron sand media using a tiller skidsteer attachment and hand shoveling around the cleanouts. Crew was careful not to till too deep to avoid damaging the underdrain system.

Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator
**Construction Report**

**Date**: May 20, 2020

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**PROJECT**  Woodcrest Biochar- and Iron- Enhanced Sand Filter

**JOB NO.**  PAN 19-03, Wenck #B1239-0100-03

**CLIENT**  Coon Creek Watershed District

**CONTRACTOR**  Peterson Companies, Inc.

**PROJECT MANAGER**  Jake Sikora

**Average Field Force**

<table>
<thead>
<tr>
<th>Name of Contractor</th>
<th>Administration</th>
<th>Labor</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
<td>Tom Martens</td>
<td>Ken Foster</td>
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**Visitors**

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<td>11:00-12:00</td>
<td>Jon Janke</td>
<td>Coon Creek Watershed District</td>
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<tr>
<td>11:00-12:00</td>
<td>Justine Dauphinais</td>
<td>Coon Creek Watershed District</td>
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<td>11:00-12:00</td>
<td>Ed Matthiesen</td>
<td>Wenck Associates Inc</td>
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<td>11:00-12:00</td>
<td>Erik Megow</td>
<td>Wenck Associates Inc</td>
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<td>11:00-12:00</td>
<td>Mark Hansen</td>
<td>City of Coon Rapids</td>
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<td>11:00-12:00</td>
<td>Gregg Engle</td>
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<tr>
<td>11:00-12:00</td>
<td>Josh Peterson</td>
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<td>11:00-12:00</td>
<td>Bill Meeks</td>
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<tr>
<td>11:00-12:00</td>
<td>Dan Schnabel</td>
<td>Coon Rapids Disc Golf Course</td>
<td></td>
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</table>

**Equipment at the Site**

**Unusual Items**

Construction kickoff meeting. Reviewed, discussed and added punch-list items. Plan to resume work Tuesday following Memorial Day.

- COVID-maintain social distancing
- Updated construction schedule-resume work Friday or Memorial Day week. ~1-2 weeks of construction.
- Mix/till in biochar in western filter cell
- Miter outlet pipe and install flared end section. Do not install a trash rack.
- Monitor clay berm settling and add material/compact/grade as needed to accomplish stable final grade
- Install pea gravel to final grade once clay berm installation is complete
- Install groundwater bypass trench with stub on east side of trail
- Backfill sink hole
- Attempt to removed debris at preexisting pond outlet structure
- Coordinate unlocking trail gate with city as needed for access
- Pave trail-reclaim, bituminous
- Ordinary Compaction methods for the trail. We do not intend to perform pavement cores. The work must be done under acceptable weather conditions
- Access path restoration- along hillside restore as terrace with ~6-foot-wide path, along remainder of filter restore 8-10-foot-wide path elevated above groundwater influence, seed and blanket.
- Seed and install erosion control blanket over disturbed areas as indicated on plans
- Seed staging area as needed. Do not disturb or grade staging area unless needed
- Verify outlet structure (OCS-MMH1) grout remains sealed
- Assess sidewalk, curb and road condition and repair as needed
- Assess frisbee golf tee box bases for damages and repair as needed
- Coordinate installation of frisbee golf baskets, signage, waste bins and landscaping (lava rocks moved elsewhere)
- Coordinate tracer wire connectivity test with City of Coon Rapids utility locator
• Remove tree protection fencing
• Remove silt fence, construction fencing and biologs once vegetation is established
• Provide as-buils
• NPDES permit (ID C00055130) notice of termination once vegetation is established
• Provide IC134 affidavit prior to retainage release and final payment

CCWD Punchlist
• Install permanent project interpretive signage (near tee box and existing park signage near preexisting pond outlet)
• Consider securing vented screens and retrofitting gate valve and sample port caps for secure and easy access
• Coordinate locks with city
• Install temporary construction fence as needed to route foot traffic away from sensitive areas until site restored
• Install 2 balsam fir adjacent tee box
• Update operations and maintenance plan / BMP manual for city operations

Construction Activities

Distribution: 1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator
Construction Report

Date: January 17, 2020

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<td>JOB NO.</td>
<td>PAN 19-03, Wenck #B1239-0100-03</td>
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<tr>
<td>CONTRACTOR</td>
<td>Peterson Companies, Inc.</td>
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<tr>
<td>PROJECT MANAGER</td>
<td>Jake Sikora</td>
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Average Field Force

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<td>Ken Foster</td>
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Visitors

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<tbody>
<tr>
<td>9:30-10:00</td>
<td>Jon Janke</td>
<td>Coon Creek Watershed District</td>
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</table>

Equipment at the Site

Equipment demobilized from site.

Unusual Items

Outstanding item/spring follow-up punch list to be completed prior to June 15, 2020; unless extension granted:

Engineer
- Confirm substantial completion
- Provide biochar supplier contact information to Contractor
- Process and provide to CCWD January pay request by 1/31/2020.

Contractor
- Submit January pay request by 1/24/2020. Include payroll, load tickets and material certificates
- Close existing pond outlet structure sluice gate to bring filter online by April 30, 2020
- Till in biochar in western filter cell when material becomes available and site conditions allow
- Miter outlet pipe and install flared end section. Do not install a trash rack.
- Monitor and attempt to seal off groundwater seepage into filter along north edge of pond
- Monitor clay berm settling post thaw and add material/compact/grade as needed to accomplish stable final grade
- Install pea gravel to final grade once clay berm installation is complete
- Backfill sink hole
- Grade and stabilize access road
- Pave trail-reclaim, bituminous
- Determine if and complete as necessary any trail testing requirements
- Seed and install erosion control blanket over disturbed areas as indicated on plans
- Seed staging area as needed. Do not disturb or grade staging area unless needed
- Assess sidewalk, curb and road condition and repair as needed
- Assess frisbee golf tee box bases for damages and repair as needed
- Coordinate installation of frisbee golf baskets, signage, waste bins and landscaping (lava rocks)
- Remove silt fence, construction fencing and biologs once vegetation is established
- Coordinate tracer wire connectivity test with City of Coon Rapids
- Provide as-builds
- Verify outlet structure (OCS-MMH1) grout remains sealed
- NPDES permit (ID C00055130) notice of termination once vegetation is established
- Provide IC134 affidavit prior to retainage release and final payment
CCWD

- Process January pay request for payment by 2/11/2020
- Determine if and complete as necessary any trail testing requirements
- Install permanent project interpretive signage
- Consider securing vented screens and retrofitting gate valve and sample port caps for secure and easy access
- Consider replanting trees as requested by frisbee golf course
- Update operations and maintenance plan / BMP manual for city operations
- City reimbursement
- Present project at Water Resources Conference
- Grant reporting and closeout

Message center replaced with construction detail sign. With construction now completed the message center content is no longer needed to be updated. Message center damaged and needed on another project. Project details posted on construction fence along chain link fence at Woodcrest Drive. Permanent project sign to be installed after winter.

Existing pond outlet structure gate valve and new filter gate valves left open.

**Construction Activities**

Erosion control installation. Biologs, seed and erosion control blanket installed between iron-sand and access road.

Western iron-sand filter cell completely installed and graded to ~0.1’ above design grade

Easter iron-sand/biochar filter cell installed (except for biochar) and graded to 3’ below design grade to accommodate biochar quantity

Demobilized materials and equipment.

**Distribution:**

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By **Jon Janke**

Title **Operations and Maintenance Coordinator**
**Construction Report**

Date: January 16, 2020

**PROJECT** Woodcrest Biochar- and Iron-Enhanced Sand Filter

**JOB NO.** PAN 19-03, Wenck #B1239-0100-03

**CLIENT** Coon Creek Watershed District

**CONTRACTOR** Peterson Companies, Inc.

**PROJECT MANAGER** Jake Sikora

**Weather** Bright Sunny Over-cast Rain Snow

**Temp. °F**

- Sunny: 32-50
- Over-cast: 70-85
- Rain: 85-100
- Snow: >100

**Wind**

- Sunny: Mod.
- Over-cast: High

**Humidity**

- Sunny: Dry
- Over-cast: Mod.

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**Average Field Force**

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<td>Jon Janke</td>
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<tr>
<td>10:30-11:00</td>
<td>Ed Matthiesen</td>
<td>Wenck Associates</td>
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**Equipment at the Site**

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, compactor, float pad.

**Unusual Items**

Concern about wet conditions limiting access in spring. Decided to attempt to limit the need for large equipment to return in the spring by stockpiling materials and rough grading access road.

**Construction Activities**

Graded iron-sand to final grade.

Rough graded access road. Used ripper tooth and backhoe to disturb frost. Graded frozen soil chunks as best as possible to rough final grade. Contractor will attempt to top dress larger frozen chunks with smaller chunks for safety in the event park goers enter the construction site prior to the chunks thawing and settling. Will return in spring to grade to finale grade.

Start demobilizing unneeded equipment.

Plan is to prep site for erosion control installation Friday morning before a forecasted snow storm.

**Distribution:**

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke

Title: Operations and Maintenance Coordinator
Construction Report

Date: January 15, 2020

PROJECT: Woodcrest Biochar- and Iron-Enhanced Sand Filter

JOB NO.: PAN 19-03, Wenck #B1239-0100-03

CLIENT: Coon Creek Watershed District

CONTRACTOR: Peterson Companies, Inc.

PROJECT MANAGER: Jake Sikora

Weather

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Humidity

| | |       |       |       |
| | | Still  | High  | Report No. 25 |
| | | Moder. |       |              |
| | | Dry    |       |              |

Average Field Force

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<td>10:00-11:00</td>
<td>Erik Megow</td>
<td>Wenck Associates</td>
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</table>

Equipment at the Site

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, compactor, float pad.

Unusual Items

Weekly progress meeting- representatives from Coon Creek Watershed District, Wenck Associates and Peterson Companies present.

Discussed: construction progress, biochar supply update, status of hauling reclaim material from city Public Works, access road restoration options, frisbee golf pads, securing vented screens, items to install in spring, riprap at filter outlet, schedule, next invoice due and schedule next progress meeting as needed.

Action items:

- Wenck provide Peterson biochar supplier contact information
- Wenck and Peterson-continue working on biochar testing and supplier options
- Wenck and CCWD determine if any testing requirements for trail installation

Construction Activities

Clay base and berms installed and compacted to final grade. Graded topsoil, seeded and blanketed east-west berm. Will revaluate berm condition in spring, recompact as needed and then install pea rock.

Drain tile network installed. Cleanouts cut to final grade. Vented screens installed. Vented screens are not secured to pipe so could be stolen or damaged in future. Will investigate securing options that still allow for easy future access.

Gravel base and iron-sand installed. Biochar cell installed below final grade to account for biochar quantity.

Grout sealing outlet structure. Clay stockpiled onsite to backfill around outlet structure once complete.

Determined that existing riprap between existing pond and filter outlets is sufficient. No additional riprap is needed.

Husky construction removed last 3 remaining stumps. Also, removed 3 additional stumps that were present prior to construction adjacent to the project area.

Began hauling reclaim material from city public works to site. Stockpiled near outlet structure so is out of the way however easy to access for follow-up work in spring. Uncertain if all material will be delivered today due to weather conditions and equipment availability.

Plan is to complete remaining filter components, rip and rough grade access path and install silt fence around filter.

CM 401 (Revised 12/12/2011)
Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke

Title Operations and Maintenance Coordinator
Construction Report

Date: January 13, 2020

PROJECT
Woodcrest Biochar- and Iron-Enhanced Sand Filter

JOB NO.
PAN 19-03, Wenck #B1239-0100-03

CLIENT
Coon Creek Watershed District

CONTRACTOR
Peterson Companies, Inc.

PROJECT MANAGER
Jake Sikora

Weather

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Temp. °F

| <32 | 32-50 | 50-70 | 70-85 | 85-100 | >100 |

Wind

| Still | Mod. | High |

Report No. 24

Humidity

| Dry | Mod. | Humid |

Average Field Force

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<td>10:00-11:00</td>
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<td>10:00-11:00</td>
<td>Mario Frucci</td>
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Equipment at the Site

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, compactor, float pad.

Unusual Items

Construction Activities

Drain tile and cleanout installation 95% complete. Two southeast most runs remain to be completed. Tracer wire distributed throughout, and pipes marked with lath or utility flagging. CCWD surveyed drain tile location to update design drawings prior to iron-sand installation. Several acceptable minor differences from plans where Y-joints were installed rather than T-joints. Function remains the same however location of drain tile differs slightly from plan. CCWD also spot-checked elevations to confirm work to date is within design tolerance.

Import clay for central berm and around outlet structure. Import additional coarse aggregate to grade to final after some areas settled. Export excess pond sediment.

No reclaim material delivered to site in morning. Contractor to coordinate reclaim deliver and stockpile. City indicated they could assist with loading through today.

Silt fence placed over perforated in areas to be backfilled with clay. Mini compactor delivered and used to compact clay material in areas with piping to minimize the risk of damage.

Husky construction plans to return to site this week to remove last 3 remaining stumps.

Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator
Construction Report

Date: January 10, 2020

Day of the Week: S  M  T  W  Th  F  S
Weather: Bright  Sunny  Overcast  Rain  Snow

PROJECT: Woodcrest Biochar and Iron-Enhanced Sand Filter
JOB NO.: PAN 19-03, Wenck #B1239-0100-03
CLIENT: Coon Creek Watershed District
CONTRACTOR: Peterson Companies, Inc.
PROJECT MANAGER: Jake Sikora

Temp. °F: <32  32-50  50-70  70-85  85-100  >100
Wind: Still  Moder.  High  Report No. 23
Humidity: Dry  Moder.  Humid

Average Field Force

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<td>Coon Creek Watershed District</td>
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Equipment at the Site
Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, compactor, float pad.

Unusual Items
Standard pipe fittings do not allow for connection of designed T-intersection at convergence of eastern cell perforated drain tile to 10” solid pipe and a clean out at the same location. Contractor field adjusted to Y-intersection to allow for cleanout immediately up pipe from convergence area. Change will have no impact on flow or future maintenance but does differ from design details.

Confirmation on quantity of reclaim gravel from city public works. Bid specifications indicate 40 CY however contractor estimates needing between 60 and 90 CY. Determined that 40 CY is based on compacted material which will require between 60 and 90 CY of loose material.

Bid form:

| 37 | COMMON EXCAVATION FOR BITUMINOUS TRAIL | CY | 70 |
| 38 | HAUL, PLACE, AND GRADE GRAVEL AGG. BASE FOR TRAIL | CY | 40 |
| 39 | TYPE 9.5 WEARING COURSE MIXTURE (2,E) FOR TRAIL | TON | 35 |

TOTAL BASE BID: $

Plan sheet C-202 the trail notes:

TRAIL SURFACING NOTES:
1. EXCAVATE TRAIL TO A WIDTH OF 12 FEET (70 CY).
2. HAUL IN RECLAIM GRAVEL FROM CITY PUBLIC WORKS (40 CY).
3. INSTALL 10 FOOT WIDE TRAIL.
   3.1. 4 INCHES OF GRAVEL AGGREGATE BASE.
   3.2. 2 INCHES OF BITUMINOUS WEAR SURFACING.
   3.3. TAMM EDGES OF BITUMINOUS SURFACE.
4. BACKFILL TRAIL EDGE WITH TOPSOIL.
   4.1. SEED WITH 34-261 RIPARIAN SOUTH & WEST MIX.
Construction Activities
Installation of eastern cell drain tile distribution through central berm. Numerous cleanouts, joints and pipe configuration were time consuming.

Started installation of drain tile throughout eastern cell. Delivery of remaining 8” pipe joints.

Several truckloads of clean coarse aggregate delivered to site. Should be sufficient quantity to complete base to final grade.

Contractor coordinating with city for reclaim hauling Monday. Plan to install central berm and finish drain tile installation early next week. If weather remains favorable begin installation of iron-sand mid-late week.

Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator
**Construction Report**

**Date:** January 9, 2020

**PROJECT**  
Woodcrest Biochar- and Iron-Enhanced Sand Filter

**JOB NO.**  
PAN 19-03, Wenc #B1239-0100-03

**CLIENT**  
Coon Creek Watershed District

**CONTRACTOR**  
Peterson Companies, Inc.

**PROJECT MANAGER**  
Jake Sikora

**Weather**  

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**Average Field Force**

<table>
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<tr>
<th>Name of Contractor</th>
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<th>Labor</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
<td>Tom Marien</td>
<td>Ken Foster</td>
<td></td>
</tr>
</tbody>
</table>

**Equipment at the Site**

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, compactor, float pad.

**Unusual Items**

The drain tile inverts on the west side of the pond for the 6” drain tile are shown at 860.5 on drawing C-302. The top of rock is shown at 861.00 on sheet C801. Since this drain tile is 6” at the west invert the top of the drain tile will very close to the top of the rock and the drain tile runs from west to east more of the drain tile will be out of the rock section. The drain tile is already installed in the west pond cell. Engineer provided the below revised drain tile sketch. The only elevations that have changed are highlighted with a yellow box. The pipes sections with perforation will lay more flat now but this will not change hydraulics as these sections are driven by available head (orifice hydraulics) than the slopes of the pipes. With these new elevations, the top of the pipes should be right at 861.0, so when you trench the aggregate and backfill, mound the backfill on top of the pipe so you create a 2-3” layer of the aggregate along the pipe.
Request to Engineer about recommendation for adding some additional riprap between the existing pond outlet and the filter outlet. The existing outlet is perched with a plunge pool. The filter outlet riprap is creating ponding and constricting/diverting creek flow. Thought is to add riprap to form a uniform splash pad between the outlets. Otherwise we can leave as is or have Contractor pull back the filter outlet.

**Construction Activities**
Completed installation of drain tile system within western cell. Confirmed drain tile elevations are accurate provided updated design specifications from Engineer. Covered drain tile with coarse aggregate to final grade.

Completed installation of riprap at filter outlet as field directed by Engineer. Outlet pipe still needs to be mitered into the bank.

**Distribution:**
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator
Construction Report

Date: January 8, 2020

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>Woodcrest Biochar- and Iron-Enhanced Sand Filter</th>
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<td>JOB NO.</td>
<td>PAN 19-03, Wenck #B1239-0100-03</td>
</tr>
<tr>
<td>CLIENT</td>
<td>Coon Creek Watershed District</td>
</tr>
<tr>
<td>CONTRACTOR</td>
<td>Peterson Companies, Inc.</td>
</tr>
<tr>
<td>PROJECT MANAGER</td>
<td>Jake Sikora</td>
</tr>
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</table>

Weather

<table>
<thead>
<tr>
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<th>T</th>
<th>W</th>
<th>Th</th>
<th>F</th>
<th>S</th>
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</thead>
<tbody>
<tr>
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<td>Rain</td>
<td>Snow</td>
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Temp. °F

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Wind

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Humidity

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Average Field Force

<table>
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<th>Labor</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
<td>Tom Marten</td>
<td>Ken Foster</td>
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Visitors

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<tbody>
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<td>10:15-10:45</td>
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<td>Coon Creek Watershed District</td>
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<td>10:15-10:45</td>
<td>Ed Matthiesen</td>
<td>Wenck Associates</td>
</tr>
</tbody>
</table>

Equipment at the Site

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, compactor, float pad.

Unusual Items

Contractor would like to haul 40 CY of reclaim from Coon Rapids Public Works by Tuesday morning.

Contractor requested confirmation about drain pipe inverts to ensure they will remain covered with coarse aggregate.

Construction Activities

Topsoil roughly spread along south side of berm. Will grade to final grade before vegetating.

Updated construction schedule

Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title: Operations and Maintenance Coordinator
**Construction Report**

Date: January 7, 2020

<table>
<thead>
<tr>
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</tr>
<tr>
<td>CLIENT</td>
<td>Coon Creek Watershed District</td>
</tr>
<tr>
<td>CONTRACTOR</td>
<td>Peterson Companies, Inc.</td>
</tr>
<tr>
<td>PROJECT MANAGER</td>
<td>Jake Sikora</td>
</tr>
</tbody>
</table>

**Weather**
- **Temperature (°F):**
  - <32
  - 32-50
  - 50-70
  - 70-85
  - 85-100
  - >100
- **Sun:** Bright
- **Sunny:** Sunny
- **Overcast:** Overcast
- **Rain:** Rain
- **Snow:** Snow
- **Wind:** Still
- **Moder.:** Moderate
- **High:** High
- **Report No.:** 20

**Humidity:**
- **Dry:** Dry
- **Moder.:** Moderate
- **Humid:** Humid

**Average Field Force**

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<tr>
<td>Peterson Companies, Inc.</td>
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**Visitors**

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**Equipment at the Site**
Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, compactor, float pad.

**Unusual Items**

**Construction Activities**
Northeast corner of pond continues to backfill with groundwater. Numerous attempts to dewater and work material into corner have been unsuccessful to date.

New skidsteer arrived onsite and used to place topsoil along berm.

Plan is to continue to dewater and spread coarse aggregate base by end of day so crew can resume drain tile installation tomorrow. However, weather and site conditions remain unfavorable.

**Distribution:**
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator

CM 401 (Revised 12/12/2011)
Construction Report

Date: January 6, 2020

Day

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<td>Sunny</td>
<td>Overcast</td>
<td>Rain</td>
<td>Snow</td>
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Weather

PROJECT
Woodcrest Biochar- and Iron-Enhanced Sand Filter

JOB NO.
PAN 19-03, Wenck #B1239-0100-03

CLIENT
Coon Creek Watershed District

CONTRACTOR
Peterson Companies, Inc.

PROJECT MANAGER
Jake Sikora

Temp. °F

<table>
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<tr>
<th>&lt;32</th>
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Humidity

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Average Field Force

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<tbody>
<tr>
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<td>Ken Foster</td>
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Visitors

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<td>10:15-10:30</td>
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Equipment at the Site
Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, compactor, float pad.

Unusual Items
Door stolen from skidsteer over holiday break. Skidsteer was clustered among other equipment. Door was cleanly removed with tools as no damage to the hinges or surrounding component was found. Security camera system was inoperable so did not capture an image of the thief(s).

Construction Activities
Access road plowed after each snowfall over holiday break to encourage frost penetration.

Northeast corner of pond continues to backfill with groundwater. Numerous attempts to dewater and work material into corner have been unsuccessful to date.

Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator
**Construction Report**

Date: December 23, 2019

<table>
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<tr>
<th>PROJECT</th>
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<td>Rain, Snow</td>
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**Average Field Force**

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<tr>
<th>Name of Contractor</th>
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**Visitors**

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<td>3:00-3:30</td>
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<td>3:00-3:30</td>
<td>Ed Matthiesen</td>
<td>Wenck Associates</td>
<td></td>
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</table>

**Equipment at the Site**

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, compactor, float pad.

**Unusual Items**

**Construction Activities**

All coarse aggregate delivered to site and partially installed. Western half of filter graded. Remaining material stockpiled on eastern half. Edge of pond remains too wet to install aggregate without contaminating the material with the soft clay base. Plan is to allow the pond edge to freeze over the new year and re-attempt to install the coarse aggregate in January. Once coarse aggregate is installed the work area should be above the groundwater seep and no longer interfere with work.

Drain tile installed along western half of filter area. Risers were installed at sample port and gate valve. Coarse aggregate was spread and packed to design elevation. Trenches were dug for drain tile. Drain tile sections were installed with gluing joints and tracer wire installed. Trenches remain open. Plan is to hand backfill and pack trenches over drain tile once all plumbing is installed. Utility flagging installed along drain tile to indicate areas of avoidance during iron-sand installation to ensure drain tiles are not damaged during the remaining work.

Access road bed remained frozen however top inch loosened into a slippery mud. Contractor attempted to use metal access grates to limit tracking however grates slid when trucks attempted to cross. Rock construction entrance was attempted but quickly filled with mud. Contractor used wood boards for curb protection and cleaned street of any tracking material.

Contractor unable to proceed with remaining project elements due to wet pond edge conditions. Contractor secured the site and plans to shut down construction until after January 6.

**Distribution:**

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By _Jon Janke_  
Title _Operations and Maintenance Coordinator_

CM 401 (Revised 12/12/2011)
Construction Report

Date: December 20, 2019

<table>
<thead>
<tr>
<th>PROJECT</th>
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<tbody>
<tr>
<td>JOB NO.</td>
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<tr>
<td>CLIENT</td>
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<tr>
<td>CONTRACTOR</td>
<td>Peterson Companies, Inc.</td>
</tr>
<tr>
<td>PROJECT MANAGER</td>
<td>Jake Sikora</td>
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Average Field Force

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<tr>
<td>Peterson Companies, Inc.</td>
<td>Tom Marien</td>
<td>Ken Foster</td>
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Visitors

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<td>Mario Frucci</td>
<td>Coon Creek Watershed District</td>
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Equipment at the Site

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, compactor, float pad. Approximately 3-5 dump trucks.

Unusual Items

Question about detail 5-C801 “1 foot above surface” is as graded around outlet structure near 863.5; not top of media (862.5). Contractor will install excess extensions for now and cut off excess when area is at final grade to meet design.

Construction Activities

Clay berm and bed at final grade with exception of berm side slope and perimeter of pond. Contractor plans to rework difficult areas as they freeze.

Plumbing roughly tied into outlet control structure and extend approximately 20 feet into filter.

Coarse aggregate delivered to site and spread throughout site. Spreading aggregate before pipe installation to avoid damaging pipes with grading equipment. Plan is to use mini-backhoe with narrow bucket to trench in drain pipe through aggregate. Will then spread iron-sand while working on top of material with lightest equipment to provide maximum buffer to minimize risk of damaging pipes.

Confirmed outlet control structure elevations are within tolerance of design.

No material export.

Contractor plans to work Monday and Tuesday. Then break until after January 6.

Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator
**Construction Report**

**Date**
December 19, 2019

**PROJECT**
Woodcrest Biochar- and Iron-Enhanced Sand Filter

**JOB NO.**
PAN 19-03, Wenck #B1239-0100-03

**CLIENT**
Coon Creek Watershed District

**CONTRACTOR**
Peterson Companies, Inc.

**PROJECT MANAGER**
Jake Sikora

**Weather**

<table>
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<tr>
<th>S</th>
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<th>W</th>
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<tr>
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<tr>
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<th>Remarks</th>
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<tr>
<td>11:30-12:00</td>
<td>Mario Frucci</td>
<td>Coon Creek Watershed District</td>
<td></td>
</tr>
</tbody>
</table>

**Equipment at the Site**

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, compactor, float pad. Approximately 3-5 dump trucks.

**Unusual Items**

Contractor requested to upsize 8” pipe between sample port and valve box to 10” diameter to simplify installation. Contractor indicated there was sufficient material onsite to make the adjustment without ordering more material. Owner and engineer discussed reviewed future sampling needs and agreed that upsizing the pipes is acceptable so long as it does not increase cost.

Groundwater seepage clear as ice is beginning to form along the seam.

**Construction Activities**

Clay berm compacted and grade using backhoe and dozer (compactor not operational). Berm was also completed to the pond bank while site conditions are favorable. Work area should drain through the outlet structure should a flood event occur before completion.

Clay bed was rough graded throughout entire filter area. Wet areas remain along perimeter of pond. Contractor allowing groundwater seeps to freeze and will attempt to rework those areas over time.

Several loads of coarse aggregate delivered to site for pipe bedding. Trench was cut through clay bottom and backfilled with solid drain tile and covered with coarse aggregate to match the grade of the adjacent clay base.

Began pipe installation starting from outlet control structure. Plan is to continue to install pipe if weather allows otherwise will work to finalize clay base and spread thin layer of coarse aggregate to install pipe in colder weather.

Pond export material continued to be hauled from site as coarse aggregate was delivered.

**Distribution:**
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke  
Title Operations and Maintenance Coordinator
Construction Report

Date: December 18, 2019

Day

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<td>Overcast</td>
<td>Rain</td>
<td>Snow</td>
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</table>

Weather

Temp. °F
32 | 32-50 | 50-70 | 70-85 | 85-100 | >100

Wind
Still | Moder. | High

Report No. 15

Humidity
Dry | Moder. | Humid

Average Field Force

<table>
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<th>Name of Contractor</th>
<th>Administration</th>
<th>Labor</th>
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<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
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Visitors

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<tr>
<td>9:30-10:00</td>
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<td>Wenck Associates</td>
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</table>

Equipment at the Site

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, float pad. Approximately 3 dump trucks.

Unusual Items

Weekly progress meeting- representatives from Coon Creek Watershed District, Wenck Associates and Peterson Companies present.

Discussed: Last weekly progress meeting until rescheduled as needed. Invoice (with load tickets and material receipts) due December 27 to Engineer. Contractor encouraged to submit invoice prior to holiday break. Material export and import, biochar suppliers/testing/availability, biochar mixing preferred by premixing due to challenges with even tilling, coordinate tracer wire test with city, shallow groundwater in proximity to final grade of future access road, challenges with clay base installation, challenges with compaction of clay berm, wait to install rock on berm until weather allows for final compaction and grade, concern about site flooding with forecasted warmer temperatures, security of material left onsite during holiday break, site constraints may result in delay of anticipated construction completion, and contractor current plan/schedule is to complete the clay base and pluming through the berm separating the cells by Tuesday; no work between Christmas and New Year’s.

Action items:
- Wenck and Peterson-continue working on biochar testing and supplier options

Construction Activities

Resumed import of clay and export of sand. Continued working clay base in sections to reduce spread of groundwater throughout the site.

Weather and equipment issues limiting ability to compact and grade berm to final specifications.

Site frozen preventing tracking however dirty snow tracks appear entering/leaving the site. Although not a result of construction activities contractor swept the street throughout trucking to maintain a clean construction site.

Schedule is to complete the clay base and pluming through the berm separating the cells by Tuesday; no work between Christmas and New Year’s.
Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator
Construction Report

Date December 17, 2019

Day

S  M  T  W  Th  F  S

Weather
Bright  Sunny  Over-  Rain  Snow
Sun  cast

Temp. °F  32  32-50  50-70  70-85  85-100  >100

Wind  Still  Moder.  High  Report No. 14

Humidity  Dry  Moder.  Humid

PROJECT Woodcrest Biochar- and Iron- Enhanced Sand Filter

JOB NO. PAN 19-03, Wenck #B1239-0100-03

CLIENT Coon Creek Watershed District

CONTRACTOR Peterson Companies, Inc.

PROJECT MANAGER Jake Sikora

Average Field Force

Name of Contractor  Administration  Labor  Remarks

Peterson Companies, Inc.  Tom Marten  Ken Foster

Visitors

Time  Name  Representing  Remarks

11:00-11:30 Jon Janke  Coon Creek Watershed District

11:00-11:30 Justine Dauphinais  Coon Creek Watershed District

11:00-11:30 Ed Matthiesen  Wenck Associates

Equipment at the Site

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, float pad. Approximately 3 dump trucks.

Unusual Items

Construction Activities

Material delivery to site. Rolanka blanket, PVC drain pipe and pipe fittings.

Resumed import of clay and export of sand. Approximately 90% of clay berm in place. Remaining 10% intentionally omitted to allow free flow of water should a thaw or precipitation event occur and flood the work area. Approximately 40% of clay base roughly graded. Groundwater seepage along north edge of pond caused difficulty in setting clay base. Contractor and Engineer agreed to rough clay in place, allow to freeze and attempt to rework to final grade. Clay base is intended to slow water; not necessarily stop all water.

Site frozen preventing tracking however dirty snow tracks appear entering/leaving the site. Although not a result of construction activities contractor swept the street throughout trucking to maintain a clean construction site.

Schedule is to continue hauling pond material from site and importing clay. Plan is to work remainder of this week, Monday and Tuesday next week, then resume work after the New Year.

Distribution: 1. Contractor

2. Subcontractor(s)

3. Engineer

4. Owner

5. City of Coon Rapids

6. Project File

By Jon Janke  Title Operations and Maintenance Coordinator
**Construction Report**

**Date**: December 16, 2019

**PROJECT**
Woodcrest Biochar- and Iron-Enhanced Sand Filter

**JOB NO.**
PAN 19-03, Wenck #B1239-0100-03

**CLIENT**
Coon Creek Watershed District

**CONTRACTOR**
Peterson Companies, Inc.

**PROJECT MANAGER**
Jake Sikora

**Weather**

<table>
<thead>
<tr>
<th>S</th>
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<th>W</th>
<th>Th</th>
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<td>Overcast</td>
<td>Rain</td>
<td>Snow</td>
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**Temp. °F**

32 32-50 50-70 70-85 85-100 >100

**Wind**

Still  Moder.  High

**Humidity**

Dry  Moder.  Humid

### Average Field Force

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<thead>
<tr>
<th>Name of Contractor</th>
<th>Administration</th>
<th>Labor</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
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<td>Ken Foster</td>
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### Visitors

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<td>3:00-3:30</td>
<td>Jon Janke</td>
<td>Coon Creek Watershed District</td>
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### Equipment at the Site

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, float pad. Approximately 3 dump trucks.

### Unusual Items

Park goer approached crew with questions about project. Explained project and directed to message center for details and future updates. Park goer indicated project was a waste of money and that we should be addressing the real problem of plastic usage and groundwater contamination from landfills.

### Construction Activities

Resumed import of clay and export of peat. Majority of peat was removed by end of day and about half of the clay berm was installed. Mid-day temperatures reached 26 degrees with full sun making access road slippery but workable. Consistent hard gray sand bottom below approximately 1 foot of peat/detritus throughout pond.

### Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By __Jon Janke______ Title __Operations and Maintenance Coordinator___

---

CM 401 (Revised 12/12/2011)
**Construction Report**

**Date** December 13, 2019

**PROJECT** Woodcrest Biochar- and Iron-Enhanced Sand Filter

**JOB NO.** PAN 19-03, Wenck #B1239-0100-03

**CLIENT** Coon Creek Watershed District

**CONTRACTOR** Peterson Companies, Inc.

**PROJECT MANAGER** Jake Sikora

**Weather**

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<th>Day</th>
<th>S</th>
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<th>T</th>
<th>W</th>
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<td>Rain</td>
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<tr>
<td>Sun</td>
<td>32</td>
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<td>70-85</td>
<td>85-100</td>
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**Temp. °F** 32

**Wind** Still

**Humidity** Dry

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**Average Field Force**

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<th>Name of Contractor</th>
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<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
<td>Tom Marlen</td>
<td>Ken Foster</td>
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**Visitors**

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<th>Representing</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>2:30-3:00</td>
<td>Jon Janke</td>
<td>Coon Creek Watershed District</td>
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</table>

**Equipment at the Site**

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, float pad. Approximately 3 dump trucks.

**Unusual Items**

**Construction Activities**

Started to import clay and export peat. Winter weather conditions became unsafe late morning halting operations due to safety concerns. Contractor cleaned equipment and plans to resume work on Monday.

---

**Distribution:**

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke

**Title** Operations and Maintenance Coordinator
## Construction Report

**Date:** December 11, 2019

### Weather
- Bright
- Sunny
- Overcast
- Rain
- Snow

### Temperature, °F
- 32
- 32-50
- 50-70
- 70-85
- 85-100
- >100

### Wind
- Still
- Moder.
- High

### Humidity
- Dry
- Moder.
- Humid

## Average Field Force

<table>
<thead>
<tr>
<th>Name of Contractor</th>
<th>Administration</th>
<th>Labor</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
<td>Tom Martin</td>
<td>Ken Foster</td>
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## Visitors

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<td>9:45-10:30</td>
<td>Ed Matthiesen</td>
<td>Wenck Associates</td>
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<td>9:45-10:30</td>
<td>Erik Megow</td>
<td>Wenck Associates</td>
<td></td>
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## Equipment at the Site

- Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, float pad.

## Unusual Items

Weekly progress meeting- representatives from Coon Creek Watershed District, Wenck Associates and Peterson Companies present.

- Discussed: plow road, scrape pond, backhoe difficulties, biochar availability, biochar mixing options, woodchip delivery for frisbee golf course, no additional equipment theft since camera installed, trucking schedule, tracer wire test with city, inlet protection removed as requested, re-install inlet protection if tracking occurs, submittals up to date, change order 1 executed, tree stump removal, material delivery, recommend checking pond outlet for obstructions and contractor current plan/schedule is to begin trucking material on Friday through next week.

**Action items:**
- Wenck and Peterson-continue working on biochar supplier and options

## Construction Activities

- Used skid steer to continue scraping pond area in preparation of trucking material. Fix backhoe and/or deliver alternative backhoe to site.

**Distribution:**
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

**By:** Jon Janke  
**Title:** Operations and Maintenance Coordinator

---

**CM 401 (Revised 12/12/2011)**
**Construction Report**

**Date:** December 10, 2019

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<th>F</th>
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<td>Over-cast</td>
<td>Rain</td>
<td>Snow</td>
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<td></td>
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<tr>
<td>Temp. °F</td>
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<td>85-100</td>
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<td>Humidity</td>
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<td>Humid</td>
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</table>

**PROJECT** Woodcrest Biochar- and Iron-Enhanced Sand Filter

**JOB NO.** PAN 19-03, Wenck #B1239-0100-03

**CLIENT** Coon Creek Watershed District

**CONTRACTOR** Peterson Companies, Inc.

**PROJECT MANAGER** Jake Sikora

**Average Field Force**

<table>
<thead>
<tr>
<th>Name of Contractor</th>
<th>Administration</th>
<th>Labor</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
<td>Tom Marten</td>
<td>Ken Foster</td>
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**Visitors**

<table>
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<tr>
<th>Time</th>
<th>Name</th>
<th>Representing</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:45-3:00</td>
<td>Jon Janke</td>
<td>Coon Creek Watershed District</td>
<td></td>
</tr>
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</table>

**Equipment at the Site**

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, float pad.

**Unusual Items**

DEF froze in backhoe causing operational issues.

**Construction Activities**

Plowed access road to encourage frost penetration. Used excavator to scrape snow and loose material from filter area.

**Distribution:**

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke

**Title** Operations and Maintenance Coordinator
Construction Report

Date: December 5, 2019

PROJECT: Woodcrest Biochar- and Iron-Enhanced Sand Filter

Weather:
- Bright
- Sunny
- Overcast
- Rain
- Snow

JOB NO.: PAN 19-03, Wenck #B1239-0100-03

CLIENT: Coon Creek Watershed District

Temp. °F
- <32
- 32-50
- 50-70
- 70-85
- 85-100
- >100

CONTRACTOR: Peterson Companies, Inc.

Wind:
- Still
- Moder.
- High

PROJECT MANAGER: Jake Sikora

Humidity:
- Dry
- Moder.
- Humid

Average Field Force

Name of Contractor | Administration | Labor | Remarks
--- | --- | --- | ---
Peterson Companies, Inc. | Tom Marten | Ken Foster |  

Visitors

Time | Name | Representing | Remarks
--- | --- | --- | ---

Equipment at the Site

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, float pad.

Unusual Items

Construction Activities

Removed inlet protection devices as requested

Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke

Title: Operations and Maintenance Coordinator

Construction Report

Date: December 4, 2019

Day

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<tbody>
<tr>
<td>Bright</td>
<td>Sunny</td>
<td>Over-</td>
<td>Rain</td>
<td>Snow</td>
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</table>

Weather

PROJECT
Woodcrest Biochar- and Iron-Enhanced Sand Filter

JOB NO.
PAN 19-03, Wenck #B1239-0100-03

CLIENT
Coon Creek Watershed District

Temp. °F
<32 32-50 50-70 70-85 85-100 >100

CONTRACTOR
Peterson Companies, Inc.

Wind
Still  Moder.  High

Report No. 8

High

PROJECT MANAGER
Jake Sikora

Humidity
Dry  Moder.  Humid

Average Field Force

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<thead>
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<th>Name of Contractor</th>
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<th>Labor</th>
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<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
<td>Tom Marten</td>
<td>Ken Foster</td>
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Visitors

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<tr>
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<td>10:00-10:30</td>
<td>Justine Dauphinais</td>
<td>Coon Creek Watershed District</td>
<td>Weekly progress meeting</td>
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<td>10:00-10:30</td>
<td>Ed Matthiesen</td>
<td>Wenck Associates</td>
<td>Weekly progress meeting</td>
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<tr>
<td>10:00-10:30</td>
<td>Erik Megow</td>
<td>Wenck Associates</td>
<td>Weekly progress meeting</td>
</tr>
<tr>
<td>10:00-10:30</td>
<td>Mark Hansen</td>
<td>City of Coon Rapids</td>
<td>Weekly progress meeting</td>
</tr>
</tbody>
</table>

Equipment at the Site

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, float pad.

Unusual Items

Weekly progress meeting- representatives from City of Coon Rapids, Coon Creek Watershed District, Wenck and Peterson Companies present. Discussed: installation of outlet pipe and structure, coordinate with city tracer wire test, remove inlet protection until tracking is possible, outlet pipe sufficient for now but needs to match specifications prior to demobilization, biochar availability, biochar mixing options, woodchip delivery for frisbee golf course, no additional equipment theft since camera installed and contractor current plan/schedule.

Construction Activities

Construction delayed until site freezes. Contractor continues to plow access road to reduce snow insulation and encourage frost production.

Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke  Title  Operations and Maintenance Coordinator
# Construction Report

Date: November 26, 2019

## PROJECT
Woodcrest Biochar- and Iron-Enhanced Sand Filter

## JOB NO.
PAN 19-03, Wenck #B1239-0100-03

## CLIENT
Coon Creek Watershed District

## CONTRACTOR
Peterson Companies, Inc.

## PROJECT MANAGER
Jake Sikora

## Weather
- **Weather**: Sunny, Over-cast
- **Temp. °F**: 32-50, 50-70, 70-85, 85-100
- **Wind**: Still, Moder.
- **Humidity**: Dry, Moder., Humid

## Average Field Force

<table>
<thead>
<tr>
<th>Name of Contractor</th>
<th>Administration</th>
<th>Labor</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
<td>Tom Martien</td>
<td>Ken Foster</td>
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## Visitors

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<tbody>
<tr>
<td>12:30-1:00</td>
<td>Jon Janke</td>
<td>Coon Creek Watershed District</td>
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</table>

## Equipment at the Site

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, float pad.

## Unusual Items

This Wednesday’s weekly progress meeting is being cancelled due to weather, holiday and work progress considerations. Since the previous progress meeting the outlet control structure and HDPE pipe have been installed. The crew plans to wait until the ground freezes before hauling material into or out of the site. In the meantime, the crew may return periodically to plow snow off the access road to encourage frost growth.

Isolated areas of gray clay were discovered throughout the trench excavation.

## Construction Activities

Outlet pipe trench excavated, outlet control structure placed, outlet pipe and tracer wire installed and trench partially backfilled.

## Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator
**Construction Report**

**Date** November 21, 2019

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<td>PROJECT MANAGER</td>
<td>Jake Sikora</td>
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<th>Labor</th>
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<th>Remarks</th>
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<tr>
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**Equipment at the Site**
Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, float pad.

**Unusual Items**
Contractor plans to install outlet pipe on Monday.

Dan with Frisbee Golf course requested tree planting post construction be considered. Need to keep in mind location of trees for frisbee play, trail usage and future maintenance access. Also need to consider damage protection for the trees against being struck with frisbees. Look into fake trees.

**Construction Activities**
Outlet control structure and some piping delivered to site. Measured dimensions of outlet control structure.

**Distribution:**
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke  
Title Operations and Maintenance Coordinator
Construction Report

Date: November 20, 2019

PROJECT: Woodcrest Biochar- and Iron-Enhanced Sand Filter

Weather:

<table>
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<tr>
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Temp. °F:

- <32
- 32-50
- 50-70
- 70-85
- 85-100
- >100

Wind:
- Still
- Moder.
- High

Report No. 5

Humidity:
- Dry
- Moder.
- Humid

CLIENT: Coon Creek Watershed District

PROJECT MANAGER: Jake Sikora

CONTRACTOR: Peterson Companies, Inc.

Average Field Force:

<table>
<thead>
<tr>
<th>Name of Contractor</th>
<th>Administration</th>
<th>Labor</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
<td>Tom Martin</td>
<td>Ken Foster</td>
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Visitors

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<th>Name</th>
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<tbody>
<tr>
<td>10:00-10:45</td>
<td>Jon Janke</td>
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<tr>
<td>10:00-10:45</td>
<td>Justine Dauphinais</td>
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<td>10:00-10:45</td>
<td>Ed Matthiesen</td>
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<td>10:00-10:45</td>
<td>Erik Megow</td>
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<td>10:00-10:45</td>
<td>Mark Hansen</td>
<td>City of Coon Rapids</td>
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</table>

Equipment at the Site

Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, float pad, 1 side dump.

Unusual Items

Weekly progress meeting- representatives from City of Coon Rapids, Coon Creek Watershed District, Wenck and Peterson Companies present. Discussed: invoices due Friday, sink hole, theft of air compressor, excavation of outlet trench, install of outlet structure and pipe, silt curtain install location, survey benchmark, wait until road freezes before hauling or delivering materials, biochar delivery in December, how to mix biochar with iron sand, dewatering options, frisbee hole 11 reestablish until construction resumes, aggregate gradation, woodchips.

- Peterson worried about sloppy clay soup given active groundwater seep. Will attempt to dewater with outlet pipe and ditches, but may need to wait until freeze and place clay over chipped ice
- Mark wants the sink hole filled
- Trench to be dug by Friday for outlet pipe
- EM okayed digging a sump in Woodcrest channel vs floating silt curtain which could cause more damage than good by redirecting flow into bank

Construction Activities

None

Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke

Title: Operations and Maintenance Coordinator
## Construction Report

**Date:** November 18, 2019

<table>
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<th>PROJECT</th>
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<td>JOB NO.</td>
<td>PAN 19-03, Wenck #B1239-0100-03</td>
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<tr>
<td>CLIENT</td>
<td>Coon Creek Watershed District</td>
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<tr>
<td>CONTRACTOR</td>
<td>Peterson Companies, Inc.</td>
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<tr>
<td>PROJECT MANAGER</td>
<td>Jake Sikora</td>
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### Weather

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- Bright Sun
- Still, Mod., High
- 32-50°F
- Dry, Mod., Humid
- 70-85°F
- Report No. 4
- 50-70°F
- 85-100°F
- >100°F

### Average Field Force

<table>
<thead>
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<th>Name of Contractor</th>
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<th>Remarks</th>
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<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
<td>Tom Martien</td>
<td>Ken Foster</td>
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### Visitors

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<tbody>
<tr>
<td>10:00-10:30</td>
<td>Jon Janke</td>
<td>Coon Creek Watershed District</td>
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</table>

### Equipment at the Site

- Job trailer, silt fence, access ramps, porta-potty. Skid-steer with multiple attachments, backhoe, float pad, 1 side dump.

### Unusual Items

Contractor anticipates approximately 18 dump trucks hauling in clay and hauling out pond muck. Anticipate 1.5-2-hour round trip between site and source material.

Contractor submitted and engineer approved clay gradation green lighting clay delivery and install.

### Construction Activities

- Pit dug on west end of pond. Submersible pump dewatering groundwater from work area.

- Contractor begun excavation and hauling of pond muck. Starting today with one truck to try out and optimize the earth work process before the full compliment of trucks arrives tomorrow.

### Distribution

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator
Construction Report

Date: November 6, 2019

Weather

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Temp. °F

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Average Field Force

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<tr>
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Visitors

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<tr>
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<tr>
<td>10:00-11:00</td>
<td>Ed Matthiesen</td>
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<tr>
<td>10:00-11:00</td>
<td>Erik Megow</td>
<td>Wenck Associates</td>
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</table>

Equipment at the Site

Skid-steer with multiple attachments, backhoe

Unusual Items

Weekly progress meeting-Contractor, Engineer and Owner present. Engineer and Contractor working on final submittal approvals.

Biochar supply- provider no longer has enough supply for project. Contractor looking into alternative suppliers and options. Will work with Engineer to determine acceptable alternatives

Clay or EPDM liner- the lack of clay onsite requires either clay be imported, or an EPDM liner installed along the base of the filter. Engineer to calculate quantities for both options and then work with contractor to provide estimates for both options.

Iron sand-Engineer witnessed Contractor mixing of iron sand. Auger was used to mix materials at uniform rates. Contractor periodically sampled media to test for iron percentage. Average media 7% iron.

Construction Activities

Contractor stabilized site. Crew has moved onto other work until site materials are ready to be installed.

Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator
Construction Report

Date: November 5, 2019

Day

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Weather

Temp. °F

<32 32-50 50-70 70-85 85-100 >100

PROJECT Woodcrest Biochar- and Iron-Enhanced Sand Filter

JOB NO. PAN 19-03, Wenck #B1239-0100-03

CLIENT Coon Creek Watershed District

CONTRACTOR Peterson Companies, Inc.

PROJECT MANAGER Jake Sikora

Average Field Force

<table>
<thead>
<tr>
<th>Name of Contractor</th>
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<th>Labor</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Peterson Companies, Inc.</td>
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Visitors

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<tr>
<td>10:30-11:30</td>
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<tr>
<td>10:30-11:30</td>
<td>Mario Frucci</td>
<td>Coon Creek Watershed District</td>
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Equipment at the Site

Skid-steer with multiple attachments, backhoe

Unusual Items

Clay soil-test pits dug with backhoe were unable to locate enough clay material for berm or filter base. Engineer to review design and provide recommendation for how to adjust for the lack of onsite clay material. To be discussed further at the weekly progress meeting.

Construction Activities

Erosion control-redundant silt fence was installed within pond and along perimeter as indicated in the SWPPP.

Safety fence-Peterson installed orange safety fence along the trail south of the site to block park goers from entering the construction site. CCWD installed green safety fence along the western boundary of the project area to deter park goers from entering the construction site. The fencing runs along the silt fence which should also act as a deterrent.

Tree stump removal-Husky construction was unable to grind tree stumps due to a mechanical failure. Peterson removed most of the stumps with the backhoe. Large stumps and those along the bank of Woodcrest Creek were left alone for now. Hopefully Husky can resume grinding stumps in near future and haul excavated stumps from site.

Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator
Construction Report

Date: November 4, 2019

PROJECT: Woodcrest Biochar- and Iron-Enhanced Sand Filter

JOB NO.: PAN 19-03, Wenck #B1239-0100-03

CLIENT: Coon Creek Watershed District

CONTRACTOR: Peterson Companies, Inc.

PROJECT MANAGER: Jake Sikora

Weather: Bright, Sunny, Over-cast, Rain, Snow

<table>
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<th>Day</th>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>Th</th>
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Temp. °F: 50-70
Wind: Still, Pct, High, Report No.1
Humidity: Dry, Pct, Humid

Average Field Force

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<th>Name of Contractor</th>
<th>Administration</th>
<th>Labor</th>
<th>Remarks</th>
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<tr>
<td>Peterson Companies, Inc.</td>
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<td>Husky Construction</td>
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Visitors

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<td>14:00-15:00</td>
<td>Justine Dauphinais</td>
<td>Coon Creek Watershed District</td>
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</table>

Equipment at the Site

Skid-steer with multiple attachments, grapple truck.

Unusual Items

Pond outlet was open and water level was completely drawn down. Creek flow was approximately 3 feet wide and 6 inches deep running a slightly meandered path along the south side of the pond.

Dan Schnabel- removed baskets on holes 11, 12, 13 and 17. Also created a couple of signs to be placed at message center, and holes 1 and 11.

Coon Rapids law enforcement to increase patrols during construction for traffic control and vandalism prevention.

Park goer approached crew with questions about construction. Contractor plans to install fencing along trail to avoid others from entering the construction area.

Contractor removed and set aside lava rocks, basket base and course sign.

Contractor requested safety fence be installed along west side of project to keep park goers out of construction area. CCWD to install fence on Tuesday.

Test pits with backhoe discovered that there was no clay onsite. Engineer to determine design changes.

Construction Activities

Staking- stakes had been installed indicating the project limits, filter rock berm and other design components.

Curb protection-contractor placed large metal plates over curb and trail to prevent damages from equipment entering the site.

Tree removal- Marked trees fell and removed. Husky was unable to chip material while onsite. All material was removed from site. Logs were disposed of along railroad and Sand Creek.

Tree protection-fencing was installed around the perimeter of the evergreen trees. All deciduous trees marked for saving were removed as they were either in the way of the access road our would have been killed via root disturbance.
Erosion control-double silt fence to be hand placed within pond.

Access road was graded along north side of pond. Attempting to avoid using ‘staging area’

Distribution:
1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Coon Rapids
6. Project File

By Jon Janke
Title Operations and Maintenance Coordinator