Circuit Rider Program

Matt Wadlington, P.E.
Dan Vaage, P.E.
Background

• The 1996 Safe Drinking Water Act authorizes up to 2% of the state’s annual Drinking Water State Revolving Fund allotment to support technical assistance to small community water systems.

• Program Funding - Provides the resources to complete approximately 150+ service requests per year.

• Program Goals
  • Ensure public health through safe drinking water.
  • Improve compliance with Safe Drinking Water Act.
  • Improve water system capacity and expertise.
The circuit rider program provides on site technical trouble-shooting services for short-term operational or related technical and/or managerial problems (less than 10 hours):

- On-site evaluations to help identify system deficiencies and provide recommendations for resolutions.
- Provide guidance for system management, maintenance, repair and improvement.

But does not:

- Provide design services requiring professional engineering services.
Eligibility

The Circuit Rider program can support:

- Community Drinking Water Systems with less than 10,000 users.
- *Not-for-profit* Transient and Non-Transient Water Systems

Restrictions

The Circuit Rider program cannot support:

- Federally Owned Facilities (USFS Campgrounds, etc.)
Services and Assistance

The Circuit Rider Program can support:

- Jar testing assistance
- Coagulant dosage optimization
- Corrosion control implementation *
- Chemical feed math instruction
- Turbidimeter calibration
- CT tracer studies *
- Chemical feed pump calibration
- Filter troubleshooting *
- Reporting and record keeping
- Sampling requirements *
- Valve adjustments
- Minor changes to improve treatment and operation *
- Funding application assistance *
- Financing options and strategies
- Pump sizing
- Cross-connection assistance
- Sampling plan assistance
- Storage/distribution problems *
- Supply problems and water rights
- Research/investigation of alternatives
- Recommendations for surface water treatment
- DBP reduction *
- Filter media replacement
- Filter backwash rule compliance
- Disinfection assistance *
- Well repair/abandonment assistance
- Stage two monitoring requirements

* Indicates common requests
Additional Services and Assistance

When Directed by OHA Representatives the CR can Provide the Following Services:

Groundwater Systems
- Data Collection Including Source Sampling
- Ground Water Under the Direct Influence (GWUDI) of Surface Water Evaluation Support
- Technical Support for Ground Water Systems Determined to be Under the Influence of Surface Water
- Chemical feed math instruction

Surface Water Systems
- Sampling Protocol Support for Long Term 2 Enhanced Surface Water Treatment Rule.
- Support for Conducting Cryptosporidium Source Water Sampling
- Perform Initial Bin Classification
- Technical Support on Additional Treatment Modifications Due to Bin Classification
Civil West’s Circuit Rider Team Structure

Civil West Program Manager

Marlin Gochnour

Service Area Managers

- Area 1—Matt Wadlington
- Area 2—Keven Shreeve
- Area 3—Will Dawson
- Area 4—Bret Turner
## Civil West’s Circuit Rider Support Team Members

### Area 1

<table>
<thead>
<tr>
<th>Employee (CWE)</th>
<th>Office Line</th>
<th>Cell Phone</th>
<th>Available</th>
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<tbody>
<tr>
<td>Matt Wadlington</td>
<td>541-982-4373</td>
<td>Available</td>
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<tr>
<td>Andrew Matsumoto</td>
<td>541-982-2785</td>
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<tr>
<td>Dan Vaage</td>
<td>541-982-4373</td>
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<td>Manda Catterlin</td>
<td>541-982-4384</td>
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<tr>
<td>William Templeton</td>
<td>541-982-4240</td>
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### Area 2

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<tr>
<td>Keven Shreeve</td>
<td>541-982-4270</td>
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<tr>
<td>Chris Janigo</td>
<td>541-982-4382</td>
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<tr>
<td>Marlin Gochnour</td>
<td>541-982-4136</td>
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<td>Will Dawson</td>
<td>541-982-2762</td>
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<td>Aric Farnsworth</td>
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<td>Jared Sylvester</td>
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<td>Jerek Hodge</td>
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<td>Josh Jones</td>
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<td>Manny Ramos</td>
<td>541-982-4082</td>
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<tr>
<td>Stephan Stys</td>
<td>541-982-4267</td>
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### Area 4

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<th>Office Line</th>
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<tr>
<td>Bret Turner</td>
<td>208-642-3304</td>
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<tr>
<td>Paul Bizeau</td>
<td>208-642-3304</td>
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<tr>
<td>John Blom</td>
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<td>Andrew Gehrke</td>
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<tr>
<td>George Murgel</td>
<td>208-642-3304</td>
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Support Request Process

Who initiates?
1. Water System
2. County Water Master
3. County Health Department
4. OHA Drinking Water Services

Response Time
We strive for a follow-up connection within 24 hours of initial request.
Circuit Rider – Service Request Call and Project Setup Form

Reason
- General Assistance
- Emergency Assistance
- Water Quality Issues
- CT Tracer Study
- Funding Applications
- Other

Investigation Type
- Operations
- SWTR
- Material Recommendations
- Process Testing
- Equipment Status

PWS ID: 41-_______

Request Date: ________

Initial Call Recipient: ______________________________________________________

Call From: __________________________________________________________________

Support Region: __________________________________________________________________

Request Forwarded to: ______________________________________________________

Request Summary: ______________________________________________________

Water System Name:

Contact: __________________________ Phone: __________________________

Location: __________________________ County: __________________________

Misc. Comments: ______________________________________________________
Support Request Process

Deliverables?
A written summary of the contact using the DWS specified format for each assistance activity provided. The document is provided to both the Water System and DWS and consists of:

• Problem identification – reason for the contract
• Action performed by Circuit Rider
• Necessary or follow-up actions
Circuit Rider – Technical Assistance Contact
Oregon Health Authority/Drinking Water Services

Reason
☐ General Assistance
☐ Emergency Assistance
☐ Water Quality Issues
☒ CT Tracer Study
☐ Funding Applications
☐ Other

Investigation Type
☒ Operations
☐ SWTR
☐ Material Recommendations
☐ Process Testing
☐ Equipment Status
☐ Ground water
☒ Surface water

PWS ID: 41-00843
Report Date: 10/19/2017

Who Responded: Matt Waddington
Contact: ☒ By Phone ☐ In Field ☐ Email

Summary: Tracer Study

Water System: Stayton Water Supply
Contact: Lance Ludwick
Location: Stayton, OR
Phone: 503-769-2919
County: Marion

Background/Problem Identification:
The system operator would like to have a tracer study done on the system.

Assistance Provided:
Dan Vaage visited the site on 10/09/2017 to gather information to develop a methodology. Dan performed 3 separate tracer studies for the three different peak flows that the system uses, one at 2,100 gpm on 12/08/2017, one at 4,000 gpm on 01/04/2018, and one at 5,000 gpm on 01/11/2018.

Follow-Up Actions Needed:
None.

Technical Reports to be Prepared and Expected Timeframe:
A CT study report was distributed to both the City and OHA on 01/19/2018.

Sign: __________________________ Date: __________________________
Support Data

Since Feb, 2017

- Surface Water Systems: 33
- Ground Water Systems: 51
- Total support requests 121

Support Need:

- Funding 20%
- Tracer Study 20%
- MPA 10%
- Operations 10%
- Disinfection 10%
- Corrosion Control 10%
Questions?
THE DEADLY FACTS ABOUT WATER!

**FACT!**
Water can be chemically synthesized by burning rocket fuel!!!

**FACT!**
Over consumption can cause excessive sweating, urination, and even death!!!

**FACT!**
100% of all serial killers, rapist and drug dealers have admitted to drinking water!!!

**FACT!**
Water one of the primary ingredients in herbicides and pesticides!!!

**FACT!**
Water is the leading cause of drowning!!!

**FACT!**
100 percent of all people exposed to water will die!