

## **Sewage Treatment Systems Technical Advisory Committee**

### **MEETING MINUTES**

Date: Tuesday – February 14, 2012

Time: 10:00 AM to 2:00PM

Location: Ohio Department of Natural Resources, 2045 Morse Road, Columbus

#### **TAC Members in Attendance:**

ODH Director of Health Representative & TAC Secretary – Rebecca Fugitt

ODNR Soil Scientist – Matt Deaton

AOHC Health Commissioner – Raymond Saporito, Ashtabula County Health Department

AOHC Health Commissioner – Charles Patterson, Clark County Combined Health District

OEHA Registered Sanitarian – Dan Lark, Lake County General Health District

Manufacturer Representative - Scott Hetrick, Norweco Inc.

Registered Engineer – Walt Sandefur, Sandefur Consulting

Installer/ Service Provider – Mark Fehring, Fehring Services

#### **Absent:**

Designer – Joe Keiser, Streamkey, Inc. (excused)

#### **Vacant:**

Public –

Ohio Townships Association –

OEPA DSW Engineer –

Academic –

Manufacturer Representative –

#### **Guests:**

Zak Sherman of Infiltrator, Trent Lydic of Jet Inc., Mark Stump of Ohio EPA, Ron Sucheki of Hoot (via teleconference)

Other ODH participants: Nathan Johnson, Andrew Thomas

#### **Welcome and Agenda review**

Rebecca Fugitt explained that she would chair the meeting in the absence of the committee chair and vice chair. The order of agenda items was altered to proceed with items that do not require formal action so the meeting can begin while waiting for quorum to be achieved. Some discussion ensued on the vacant positions and its effect on ability to form a quorum for meetings.

#### **New TAC appointments and reappointments**

Rebecca Fugitt reviewed the open committee positions and which members were awaiting reappointment. Rebecca has been following up with ODH Legislative Liaison regularly to work toward filling the vacant positions.

#### **Update/Discussion of Household General NPDES Permit Renewal**

Mark Stump updated TAC members on the current status of the General Permit renewal. The new General Permit allows for replacement or upgrade of existing system providing it has been approved by TAC. MOUs have been sent out to all local health departments. Letters will go out to homeowners for renewal of current permits in 2-3 weeks. EPA will notify ODH when this occurs so LHDs can be alerted to the likelihood of calls from homeowners. Fee for renewal is \$100. Permits providing coverage issued between 7/1/2010 and 12/31/2011 will not have a renewal fee.

Ron Sucheki (Hoot) inquired about homeowners that have attained coverage under OHK000001 but have not yet installed their system and whether they could install a system that does not meet the E coli standard required for OHK000002. Mark Stump indicated additional information is needed.

To establish eligibility for upgrading an existing system within coverage of OHK000002, Rebecca indicated that manufacturers will need to provide historical data on currently approved treatment systems. Data needs to include information on when manufacture of system began for systems, and how LHDs can identify existing components. ODH will prepare a letter to send to all manufacturers requesting this information.

#### **Meeting Minutes**

TAC members reviewed the December 13, 2011 meeting minutes. Ray Saporito made a motion to approve the December 13, 2011 minutes. The motion was seconded by Mark Fehring. Committee members in attendance voted in favor of the motion.

#### **Jet, Inc. request for modification to previous approval of the J-500 Aeration Treatment Unit to include the use of the Jet 952 UV system for compliance with the E. coli standard in the Household General NPDES Permit, OHK000002 including the waters of Lake Erie.**

Trent Lydic of Jet, Inc. reviewed the modification request and performance information supporting the modification. Scott Hetrick made a motion to approve the modification request. Dan Lark seconded the motion. Committee members present voted in favor of the motion.

#### **Review and discussion of the 2011 TAC Annual Report**

Rebecca Fugitt reviewed the draft of the 2011 TAC annual report prepared by ODH program staff. Discussion ensued on the content and format of information. Some typos and inconsistencies were identified for correction. Ray Saporito requested some explanation of what TAC review entails to be included in the report. Charles Patterson requested that a column be added to the TAC members table indicating who appoints each position on the TAC.

Charles Patterson made a motion to approve the 2011 TAC Annual Report with the following edits:

- Add "Appointed By" column to table of TAC members on page 3.
- Add explanation of TAC review on page 4.
- Add Approval Date for Norweco Singulair Green in table on page 5.
- Correct notation for Delta Environmental E. coli standard approval in table on page 5.
- Add weblink to report of NPDES sampling results on page 8.

Matt Deaton seconded the motion. All committee members voted in favor of the motion. Rebecca Fugitt indicated that changes will be made to report and sent out to TAC members for review prior to forwarding the final report on to legislature.

#### **Sewage Program Updates**

Rebecca Fugitt updated the committee concerning the program activities including the recent discussion of the STS Rules Advisory Committee. RAC meetings are scheduled for 2/23/12, 3/8/12, and 3/29/12.

Rebecca Fugitt suggested that in light of the current vacancies on the committee that the existing members consider electing a new chair and vice-chair as required by the ORC. There was some discussion of the procedure in the bylaws. TAC members agreed to add election of new chair

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#### **Absent:**

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Public –

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#### **Guests:**

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Matt Deaton seconded the motion. All committee members voted in favor of the motion. Rebecca Fugitt indicated that changes will be made to report and sent out to TAC members for review prior to forwarding the final report on to legislature.

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Rebecca Fugitt updated the committee concerning the program activities including the recent discussion of the STS Rules Advisory Committee. RAC meetings are scheduled for 2/23/12, 3/8/12, and 3/29/12.

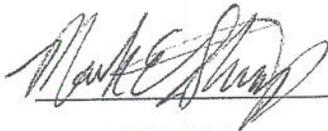
Rebecca Fugitt suggested that in light of the current vacancies on the committee that the existing members consider electing a new chair and vice-chair as required by the ORC. There was some discussion of the procedure in the bylaws. TAC members agreed to add election of new chair

and vice-chair and the bylaws discussion to the agenda for the next meeting. TAC members should email nominees for the positions to Rebecca Fugitt in the interim.

The next TAC meeting is scheduled for March 13, 2012 and will be held at ODNR.

The meeting was adjourned.

Approved on 9-11-2012 as signified by:



Vacant, TAC Chairperson



Rebecca Fugitt, Secretary

# **Sewage Treatment Systems Technical Advisory Committee**

## **MEETING MINUTES**

**Date:** Tuesday – August 14, 2012

**Time:** 10:00 AM to 2:00PM

**Location:** Ohio Department of Natural Resources, 2045 Morse Road, Columbus

### **TAC Members in Attendance:**

ODH Director of Health Representative & TAC Secretary – Rebecca Fugitt

OEPA DSW Engineer – Mark Stump

Manufacturer Representative – Zak Sherman, Infiltrator Systems, Inc.

Manufacturer Representative - Scott Hetrick, Norweco Inc.

ODNR Soil Scientist -- Matt Deaton

Installer/ Service Provider – Mark Fehring, Fehring Services

AOHC Health Commissioner – Charles Patterson, Clark County Combined Health District

Public Representative – Linda Aller

### **Absent:**

Designer – Joe Keiser, Streamkey, Inc.

AOHC Health Commissioner –Raymond Saporito, Ashtabula County Health Department (excused)

OEHA Registered Sanitarian – Dan Lark, Lake County General Health District (excused)

Registered Engineer – Walt Sandefur, Sandefur Consulting (excused)

### **Vacant:**

Ohio Townships Association

Academic

### **Guests:**

Chris Mandich, Jet Inc.

**Other ODH participants:** Dusten Gurney, Andrew Thomas

### **Welcome and Agenda review**

In absence of a committee chair and vice-chair, Rebecca Fugitt called the meeting to order. New committee members Linda Aller (public) and Zak Sherman (manufacturing) were introduced.

### **Approval of February 14, 2012 meeting minutes**

Meeting minutes were reviewed by committee members. Charles Patterson made a motion to approve the February 14, 2012 TAC meeting minutes. Mark Fehring seconded the motion. Motion approved.

### **Election of Chairperson and Vice-Chairperson**

Mark Stump was nominated to be chairperson. There were no other nominees. Charles Patterson made a motion to appoint Mark Stump chairperson of the TAC. Matt Deaton seconded the motion. Motion carried.

Mark Stump assumed role of chair for the remainder of the meeting.

Scott Hetrick was nominated to be vice-chairperson. There were no other nominees. Charles Patterson made a motion to appoint Scott Hetrick vice-chair the the TAC. Mark Fehring seconded the motion. Motion carried.

# Sewage Treatment Systems Technical Advisory Committee

## MEETING MINUTES

### Update on remaining TAC appointment and re-appointments

Rebecca Fugitt gave an update on vacant TAC positions. The governor's office is continuing to work with the Ohio Townships Association to identify a candidate. A representative for the academic position has not yet been found. Dr. Long of the University of Akron was suggested by former TAC academic representative Dr. Tumeo. Some discussion of possible candidates followed. Rebecca asked committee members to forward any suggestions to her.

### Modification Request – Consolidated Treatment Systems

Rebecca Fugitt introduced a modification request from Consolidated Treatment Systems, Inc. The manufacturer requested approval of a modification to the Multi-Flo and Enviro-Guard treatment trains previously approved for meeting the effluent limits defined in the Ohio EPA HSTS General NPDES Permits. The request is to allow for the substitution of the Pondair-2 Re-aeration compressor for the Laguna 1630 aerator. The request also included a new configuration of the treatment train to include a smaller re-aeration chamber to be used solely with the Laguna 1630 or Pondair-2. Consolidated Treatment Systems did not provide a representative to present the request and provide additional information.

Discussion included questions about the size of the re-aeration tank and whether this is a minimum size requirement. Mark Fehring indicated he has experience servicing Pondair-2 and Laguna configurations. He believes the pumps are adequate. Rebecca Fugitt pointed out that Consolidated did not provide specifications for the Pondair-2 compressor. Scott Hetrick requested that test data be provided to better inform any decision made by TAC. Zak Sherman questioned how a pump that is designed for pond application will endure the environment inside a tank riser and use in household wastewater.

The TAC members raised several questions they would like to have answered before moving forward with a recommendation to the Director. Their questions are as follows:

1. Is the proposed Pondair-2 motor compatible and being integrated into the failsafe shutoff or telemetry for the system? Provide information on how this unit is being alarmed.
2. Provide specifications on the Pondair-2 with proposed models and sizes that will be used as related to the size of the pump chamber.
3. Provide specifications/information on the proposed diffuser sizes to be used, based on the size of the chamber.
4. Provide DO test data for the proposed modification. Prior companies that have submitted modifications to the re-aeration portion of their system have submitted about 2-3 weeks of test data (with sampling at least 3 times per week). Test data could be collected on one proposed configuration and scaled to the other proposed configurations.
5. Provide information regarding the Pond Air unit to show that it can withstand and operate sustainably in an effluent environment.

This information needs to be provided to ODH prior to September 4 so it may be forwarded to the TAC members at least one week before the next scheduled TAC meeting on September 11, 2012. If possible, it is recommended that someone from Consolidated Treatment Systems, Inc. attend the TAC meeting to answer any other questions.

**Sewage Treatment Systems Technical Advisory Committee  
MEETING MINUTES**

Scott Hetrick made a motion to table the modification request from Consolidated Treatment Systems, Inc. until the identified questions are addressed and appropriate data is provided. Zak Sherman seconded the motion. Motion carried.

**Sewage Program Updates**

STS Rules Advisory Committee (RAC) – Rebecca Fugitt updated the committee concerning the program activities including the recent discussion of the RAC. The next RAC meeting is scheduled for 9/27/12. Rebecca anticipates that a complete rule draft will be ready for release for comment period in mid-October. ODH program staff will conduct small regional meetings during this time and gather input. The RAC will be reconvened for final review of the draft rule, including any changes that may be made based on public comment. This will be followed by a 30 day review and navigating through Common Sense Initiative (CSI) review. With the abolishment of Public Health Council, rules will be adopted as Director’s Rules.

Appeals Board – No formal appeals have been filed.

Website Changes – Dusty Gurney gave a brief summary of changes that have been made to ODH website, including new format and initiative to streamline public use of the website.

Fact Sheet – Andy Thomas briefly discussed some of the fact sheets that have been updated or created for publishing on the web, and some that are in development. Andy also asked that TAC members pass along any suggestions of topics for educational materials that may be needed.

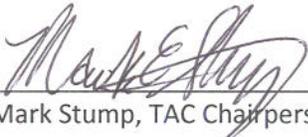
Regional NPDES Meetings – Rebecca Fugitt and Mark Stump discussed the joint regional meetings held by ODH and OEPA for local health departments on NPDES permitting. Rebecca highlighted some issues that have been brought up during these meetings, including questions about sampling requirements for NPDES systems and who is responsible for enforcement. ODH legal counsel will be consulted.

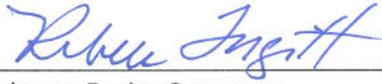
**Next Meeting: September 11, 2012**

The next TAC meeting is scheduled for September 11, 2012 and will be held at ODNR. Eljen, Inc. and possibly Consolidated Treatment Systems, Inc. are expected to be on the agenda for the next meeting. Materials for a request for approval from Eljen, Inc. were distributed to TAC members in attendance. Because Eljen has cited Presby’s approval in their request for approval, ODH will upload Presby materials to the SharePoint site for TAC reference.

The meeting was adjourned.

Approved on September 11, 2012 as signified by:

  
\_\_\_\_\_  
Mark Stump, TAC Chairperson

  
\_\_\_\_\_  
Rebecca Fugitt, Secretary

# Sewage Treatment Systems Technical Advisory Committee

## MEETING MINUTES

**Date:** Tuesday – September 11,, 2012

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### **TAC Members in Attendance:**

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OEHA Registered Sanitarian – Dan Lark, Lake County General Health District Public

Representative – Linda Aller

Designer – Joe Keiser, Streamkey, Inc.

Registered Engineer – Walt Sandefur, Sandefur Consulting

### **Absent:**

Installer/ Service Provider – Mark Fehring, Fehring Services

### **Vacant:**

Ohio Townships Association

Academic

### **Guests:**

Chris Mandich with Jet Inc., James Conley and John Hascues with HydroAction, Inc., Dave Lentz with Infiltrator, and Jason Berry and Brian Parker with Eljen Corporation.

**Other ODH participants:** Dusten Gurney, Andrew Thomas, Nathan Johnson

### **Welcome and Agenda review**

In absence of a committee chair, the Vice-Chair, Scott Hetrick, called the meeting to order. Introductions were made by all in attendance and the agenda was reviewed.

### **Approval of August 14, 2012 meeting minutes**

Meeting minutes were reviewed by committee members. Linda Aller made a motion to approve the August 14, 2012 TAC meeting minutes as submitted. Zak Sherman seconded the motion. Committee members voted to approve the meeting minutes.

### **Eljen Corporation, request for approval of the Eljen A-42 and B-43 Geotextile Sand Filter**

Brian Parker, Eljen Corporation

Brian Parker with the Eljen Corporation provided a short presentation outlining the manufacturers request for approval of the Eljen A-42 and B-43 Geotextile Sand Filter (GSF) for meeting the BOD/TSS standard of 30mg/L and fecal coliform standard of 10,000 cfu/100mL when used with timed dosing, demand dosing and gravity flow.

## **Sewage Treatment Systems Technical Advisory Committee**

### **MEETING MINUTES**

Discussion included questions from committee members concerning the data tables in the third party reports provided by the manufacturer, the definition of fill, system sizing, and the statistical analysis of data collected from the system when utilizing gravity flow distribution.

The TAC members raised several questions and concerns they would like to have addressed before moving forward with a recommendation to the Director:

1. Provide product spacing requirements for the dispersal units when the product is placed in bed configurations in the design manual. The spacing requirements should be based on effluent mounding in the sand bed below the product.
2. Page 14 of the submitted Design Manual includes incorrect system lengths. Correct the system lengths.
3. Provide corrected MASSTC reports.
4. Provide clarification and make corrections in the manual concerning the sizing of mounded systems. Specifically clarify that the soil loading rate table provided in the manual (Tyler Table) is utilized to size mounded systems.
5. Clarify sand specifications and requirements (Specifically state that either C33 or ODOT concrete sand is appropriate on page 4 of the design manual).
6. Provide a definition of clean fill (as used on page 7 and 8 of the design manual), including any limitations on soil types (percent clay) that cannot be utilized in the system design.
7. Provide a definition of native soil (as used on page 15 and 20 of the design manual) including any limitations on soil types (percent clay) that cannot be utilized in the system design. If native soil and clean fill. Use consistent terms (native soil/clean fill where possible).
8. Provide requirements for soil cover depth (page 7).
9. Clarify that an effluent filter (including specifications) is required as tested and as stated in the presentation (page 9 of the design manual).
10. Provide passive venting specifications and requirements.
11. Provide inspection port specifications and requirements.
12. Provide information concerning the high fecal coliform concentrations identified in the time pressure dosed system toward the end of the testing period.
13. Provide any additional performance data collected from the time dosed system after the six month testing was completed.

This information needs to be provided to ODH at least one week before the TAC meeting at which the matter will be discussed further

Mark Stump arrived to the meeting and assumed role of chair for the remainder of the meeting.

Charlie Patterson made a motion to table the committee's review of the request from Eljen, Inc. until the identified questions are addressed and appropriate data is provided. Scott Hetrick seconded the motion. Motion carried.

### **Sewage Program Updates**

STS Rules Advisory Committee (RAC) – Rebecca Fugitt updated the committee concerning the program activities including the recent discussion of the RAC. The next RAC meeting is scheduled for 9/27/12.

**Sewage Treatment Systems Technical Advisory Committee**  
**MEETING MINUTES**

Rebecca anticipates that a complete rule draft will be ready for release for comment period in mid-October. ODH program staff will conduct small regional meetings during this time and gather input. The RAC will be reconvened for final review of the draft rule, including any changes that may be made based on public comment. This will be followed by a 30 day review and navigating through Common Sense Initiative (CSI) review. With the abolishment of Public Health Council, rules will be adopted as Director's Rules.

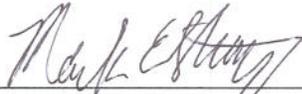
Appeals Board – No formal appeals have been filed.

**Next Meeting: October 9, 2012**

The next TAC meeting is scheduled for October 9, 2012 and will be held at ODNR. Currently, no other company, other than possibly Eljen, Inc., is expected to be on the agenda for the next meeting.

Matt Deaton made a motion to adjourn. The motion was seconded by Ray Saporito. Committee members voted to adjourn.

Approved on 11-13-12 as signified by:



\_\_\_\_\_  
Mark Stump, TAC Chairperson



\_\_\_\_\_  
Rebecca Fugitt, Secretary

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**Absent:**

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**Guests:**

Chris Mandich and Trent Lydic with Jet Inc., Brian Parker and Jason Barry with Eljen Corp, Carl Thompson with Infiltrator Systems, and John Haschel and James Conley with Hydro-Action

**Other ODH participants:** Andrew Thomas and Nathan Johnson

**Welcome and Agenda review**

Introductions were made by all in attendance. The meeting agenda was reviewed. There were no requests to modify the agenda.

**Approval of September 11, 2012 meeting minutes**

Meeting minutes were reviewed by committee members. Ray Saporito made a motion to approve the September 11, 2012 TAC meeting minutes. Dan Lark seconded the motion. Motion approved.

**Jet, Inc.**

Trent Lydic made a brief presentation concerning the request to modify all previous Jet 1500 series approvals utilizing the Salcor 3G Disinfection Unit to include the option to use the Jet Model 952 UV components inside the Salcor 3G Disinfection Unit as an equivalent UV system. Rebecca Fugitt informed the committee that she had received an email from Jim Cruver with Salcor concerning the request. Copies of the email were circulated to committee members. Trent Lydic reviewed the email and addressed Mr. Cruver's concerns for the committee.

# Sewage Treatment Systems Technical Advisory Committee

## MEETING MINUTES

Ray Saporito asked Mr. Lydic the length of testing for the unit. Trent Lydic stated that the unit had not been tested. The submittal contained data supporting the manufacturer's claim that the modification will perform as well as the approved configuration.

Mark Fehring stated that he was concerned that approval of the request would open the door for future requests to use non approved parts or aftermarket parts in approved systems.

Scott Hetrick inquired about the UL listing of the product. It was noted the committee does not require UL listing for approval of UV units.

Further discussion followed concerning the number of existing systems including approved Jet treatment trains that were approved with the Salcor 3G UV unit and the cost differences associated with retrofitting the Salcor 3G UV unit with the internal components from the Jet 952 UV unit and completely replacing the Salcor 3G UV unit with the Jet model.

After much discussion Zak Sherman made a motion to recommend approval of the request to retrofit the Salcor 3G units utilizing the internal components from the Jet 952 UV unit in the Salcor 3G UV unit's housing on existing systems including approved Jet treatment trains that were approved with the Salcor 3G UV unit and installed prior to approval of treatment trains utilizing the Jet 952 UV unit on October 19, 2011. The motion was seconded by Scott Hetrick. Committee chair Mark Stump called for a role call vote. The motion passed 6-4.

Yea: Dan Lark, Joe Kaiser, Zak Sherman, Walt Sandefur, Scott Hetrick, Mark Stump

Nay: Mark Fehring, Matt Deaton, Charlie Patterson, Ray Saporito

### Elgin Corporation

Brian Parker provided a brief presentation to address concerns expressed by the committee concerning the manufacturer's request for approval of the Eljen A42 and B43 Geotextile Sand Filter (GSF) for use as an advanced treatment system.

The TAC members raised several concerns:

1. Use the Caplan formula to support distribution claims.
2. Specify which ODOT sand the manufacturer's product material refers.
3. Use USDA soil classification system to define "heavy" clay fill & well graded, porous native soil.
4. Clarify the maximum cover depth of pipe and over the entire unit.
5. What would be example of system under impervious surface?
6. Include one inspection port per row of product in the design.
7. Add specifications for basal area preparation.

The committee did not act on the Elgin request. Brian Parker indicated that the manufacturer would request an extension for the review and return at a future date to address the concerns raised by the committee.

### Infiltrator, Inc.

Carl Thompson, Infiltrator, Inc.

Carl Thompson had provided a written explanation of the request that was circulated to committee members prior to the meeting. The explanation stated that the manufacture requests modification to the Fines Free Distribution System Special Device Approval to include the following language:

**Sewage Treatment Systems Technical Advisory Committee  
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*Trenches may be spaced side-by-side (0- 6" edge-to-edge) to make up the required component width so long as the component width (sum of the total trench width) does not exceed ten feet.*

Carl Thompson made a presentation explaining the manufacturers request for modification of the Fines Free Distribution System Special Device Approval. The committee discussed the request and the effect on future regulations to be adopted by the state. The committee asked if this subject had been discussed by the department's Rules Advisory Committee. Rebecca Fugitt explained that the subject of adjusting the six foot separation distance between trenches had been discussed but the committee had not recommended modifying the distance. Committee members agreed that since future regulations were expected to be adopted in the near future, the committee would not act on the request. The subject should be brought to the department's Rules Advisory Committee and addressed in the new rule package.

**Sewage Program Updates**

STS Rules Advisory Committee (RAC) – Rebecca Fugitt updated the committee concerning the program activities including the recent discussion of the RAC. ODH program staff will conduct small regional meetings during the public review period of the draft rules to input. The RAC will be reconvened for final review of the draft rule, including any changes that may be made based on public comment. This will be followed by a 30 day review and navigating through Common Sense Initiative (CSI) review. With the abolishment of Public Health Council, rules will be adopted as Director's Rules.

Appeals Board – No formal appeals have been filed.

**Next Meeting: December 11, 2012**

The next TAC meeting is scheduled for December 11, 2012.

The meeting was adjourned.

Approved on April 9, 2013 as signified by:

  
\_\_\_\_\_  
Mark Stump, TAC Chairperson

  
\_\_\_\_\_  
Rebecca Fugitt, Secretary