

STATE OF MISSOURI  
**DEPARTMENT OF NATURAL RESOURCES**

MISSOURI CLEAN WATER COMMISSION



**MISSOURI STATE OPERATING PERMIT**

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

Permit No. MO-0131792

Owner: Eugene Voss  
Address: P.O. Box 121, Linn, MO 65051

Continuing Authority: Same as above  
Address: Same as above

Facility Name: Voss Trailer Court Wastewater Treatment Facility  
Facility Address: #1 Voss Trailer Court, Linn, MO 65051

Legal Description: NW ¼, SW ¼, SW ¼, Sec. 14, T43N, R8W, Osage County  
UTM Coordinates: X=605381, Y=4258930

Receiving Stream: Unnamed Tributary to Pointers Creek (U)  
First Classified Stream and ID: Pointers Creek (C) (01460)  
USGS Basin & Sub-watershed No.: (10290203-040001)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

**FACILITY DESCRIPTION**

Outfall #001 – Subdivision – SIC #6515 – No Certified Operator Required  
Single-cell lagoon / settling tank / recirculating sand filter / sludge disposal is by contract hauler.  
Design population equivalent is 38.  
Design flow is 3,750 gallons per day.  
Actual flow is 1,250 gallons per day.  
Design sludge production is 0.57 dry tons/year.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

July 23, 2010  
Effective Date

  
Mark N. Templeton, Director  
Department of Natural Resources

July 22, 2015  
Expiration Date

  
Irene Crawford  
Regional Director, Northeast Regional Office

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

PAGE NUMBER 2 of 4

PERMIT NUMBER MO-0131792

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u>						
Flow	MGD	*		*	once/month	24 hr. estimate
Biochemical Oxygen Demand <sub>5</sub>	mg/L		45	30	once/month	grab
Total Suspended Solids	mg/L		45	30	once/month	grab
pH – Units	SU	**		**	once/month	grab
Ammonia as N	mg/L	*		*	once/month	grab
Temperature	°C	*		*	once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE SEPTEMBER 28, 2010. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

**B. STANDARD CONDITIONS**

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I & III STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

\* Monitoring requirement only.

\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.5-9.0 pH units.

C. SPECIAL CONDITIONS

- This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - controls any pollutant not limited in the permit.
  - Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
- All outfalls must be clearly marked in the field.
- Permittee will cease discharge by connection to a facility with an area-wide management plan per 10 CSR 20-6.010(3)(B)1. or 2. within 90 days of notice of its availability. The permittee shall obtain department approval for closure or alternate use of the facility.

C. SPECIAL CONDITIONS (continued)

4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
  - (1) One hundred micrograms per liter (100 µg/L);
  - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
  - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

5. Report as no-discharge when a discharge does not occur during the report period.

6. Water Quality Standards

- (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
  - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
  - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
  - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
  - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
  - (5) There shall be no significant human health hazard from incidental contact with the water;
  - (6) There shall be no acute toxicity to livestock or wildlife watering;
  - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
  - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities

- (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
- (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids from the lagoon. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

8. The permittee shall comply with any applicable requirements listed in 10 CSR 20-8 and 10 CSR 20-9, unless the facility has received written notification that the Department has approved a modification to the requirements. The monitoring frequencies contained in this permit shall not be construed by the permittee as a modification of the monitoring frequencies listed in 10 CSR 20-9. If a modification of the monitoring frequencies listed in 10 CSR 20-9 is needed, the permittee shall submit a written request to the department for review and, if deemed necessary, approval.

#### PERMIT TRANSFER

This permit may be transferred to a new owner by submitting an “Application for Transfer of Operating Permit” signed by the seller and buyer of the facility, along with the appropriate modification fee.

#### PERMIT RENEWAL REQUIREMENTS

Unless this permit is terminated, the permittee shall submit an application for the renewal of this permit no later than six (6) months prior to the permit’s expiration date. Failure to apply for renewal may result in termination of this permit and enforcement action to compel compliance with this condition and the Missouri Clean Water Law.

#### TERMINATION

In order to terminate this permit, the permittee shall notify the department by submitting Form J, included with the State Operating Permit. The permittee shall complete Form J and mail it to the department at the address noted in the cover letter of this permit. Proper closure of any storage structure is required prior to permit termination. A closure plan shall be submitted to the department and approved prior to initiating closure activities.

#### DUTY OF COMPLIANCE

The permittee shall comply with all conditions of this permit. Any noncompliance with this permit constitutes a violation of Chapter 644, Missouri Clean Water Law, and 10 CSR 20-6. Noncompliance may result in enforcement action, termination of this authorization, or denial of the permittee's request for renewal. This permit authorizes only the activities described in this permit.

**Missouri Department of Natural Resources**  
**Statement of Basis**  
**Voss Trailer Court WWTF**  
**MO-0131792**

A Statement of Basis (Statement) gives pertinent information regarding the applicable regulations and rationale for the development of the NPDES Missouri State Operating Permit (operating permit). This Statement includes Wasteload Allocations, Water Quality Based Effluent Limitations, and Reasonable Potential Analysis calculations as well as any other calculations that effect the effluent limitations of this operating permit. This Statement does not pertain to operating permits that include sewage sludge land application plans and variance procedures, and does not include the public comment process for this operating permit.

A Statement is not an enforceable part of an operating permit.

**Part I – Facility Information**

Facility Type: NON-POTW  
 Facility SIC Code(s): 6515

Facility Description:

Facility consists of a single-cell lagoon (with approximately 6,060 square feet of water surface at the three-and-one-half-foot (3½') operating depth) followed by a settling tank (approximately two-and-one-half feet (2½') by 12 feet by six and three-fourths feet (6¾')) with micro filter. This is followed by a duplex recirculation tank (approximately 7,184 gallons) with one horsepower (1.0 hp) pumps designed for 75 gallons per minute at 50 feet of total dynamic head. This is followed by a recirculating sand filter bed (approximately 25 feet by 30 feet).

**OUTFALL(S) TABLE:**

OUTFALL	DESIGN FLOW (GPD)	TREATMENT LEVEL	EFFLUENT TYPE	DISTANCE TO CLASSIFIED SEGMENT (MI)
#001	3,750	Secondary	Domestic	~ 4.1

Receiving Water Body's Water Quality & Facility Performance History:

No Stream Surveys or Low Flow Surveys were found.

This is a new facility. The lagoon was in existence prior to 2005, and the construction permit was to add the recirculating sand filter and other components. This facility is finally finished. There is no record of any water quality violations.

Comments:

A Use Attainability Analysis was conducted on September 20, 2007. This was submitted to the department on October 31, 2007. On March 27, 2008, the Missouri Department of Natural Resources' Use Attainability Analysis Internal Review Committee recommended retaining Whole Body Contact (WBC) use designation to the receiving stream. As the date of writing this permit, the Clean Water Commission has not made a decision regarding the WBC use designation. If the Clean Water Commission retains the WBC use designation, the Department will modify the permit accordingly.

An Environmental Assistance Visit was conducted on April 2, 2008.

Please be aware that the original draft of this permit required grab sampling of the effluent. Future renewals and/or modifications may require composite samples of the effluent for BOD<sub>5</sub> and TSS. A composite sample is a minimum of four grab samples collected within a 24-hour period with a minimum of two hours between each grab sample.

**Part IIA – Operator Certification Requirements**

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], permittee's shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.010(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Not Applicable ; This facility is not required to have a certified operator.

**Part IIB– Operational Monitoring**

As per [10 CSR 20-9.010(4)], the facility is not required to conduct operational monitoring.

**Part III – Receiving Stream Information**

**APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:**

As per Missouri’s Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the below listed seven (7) categories. Each category lists effluent limitations for specific parameters, which are presented in each outfall’s Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

- Missouri or Mississippi River [10 CSR 20-7.015(2)]:
- Lake or Reservoir [10 CSR 20-7.015(3)]:
- Losing [10 CSR 20-7.015(4)]:
- Metropolitan No-Discharge [10 CSR 20-7.015(5)]:
- Special Stream [10 CSR 20-7.015(6)]:
- Subsurface Water [10 CSR 20-7.015(7)]:
- All Other Waters [10 CSR 20-7.015(8)]:

10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1<sup>st</sup> classified receiving stream’s beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)].

**RECEIVING STREAM(S) TABLE:**

WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	8-DIGIT HUC	EDU**
Unnamed tributary to Pointers Creek	U	N/A	General Criteria	10290203	Ozark / Gasconade
Pointers Creek	C	01460	LWW, AQL, SCR, WBC***		

\* - Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery(CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND), Groundwater (GRW).

\*\* - Ecological Drainage Unit

\*\*\* - UAA conducted on September 20, 2007, and WBCR was retained on March 27, 2008.

**Part IV – Rationale and Derivation of Effluent Limitations & Permit Conditions**

**ANTI-BACKSLIDING:**

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

- This is a new permit; therefore, backsliding does not apply.

**AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:**

As per [10 CSR 20-6.010(8)(A)10.], when a Continuing Authority under paragraph 10 CSR 20-6.010(3)(B)1. or 2. is expected to be available for connection within the next five (5) years, any operating permit issued to a permittee under this paragraph, located within the service area of the paragraph (3)(B)1. or 2. facility, shall contain the following special condition... This language is contained in Special Condition #3 of this operating permit.

**COMPLIANCE AND ENFORCEMENT:**

Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

Not Applicable ; The permittee/facility is not currently under Water Protection Program enforcement action.

**REMOVAL EFFICIENCY:**

Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD<sub>5</sub>) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals. Please see the United States Environmental Protection Agency's (EPA) website for interpretation of percent removal requirements for National Pollutant Discharge Elimination System Permit Application Requirements for Publicly Owned Treatment Works and Other Treatment Works Treating Domestic Sewage @ [www.epa.gov/fedrgstr/EPA-WATER/1999/August/Day-04/w18866.htm](http://www.epa.gov/fedrgstr/EPA-WATER/1999/August/Day-04/w18866.htm)

Not Applicable ; This wastewater treatment facility is not a POTW. Influent monitoring is not being required.

**SANITARY SEWER OVERFLOWS (SSOs), BYPASSES, INFLOW & INFILTRATION (I&I) – PREVENTION/REDUCTION:**

Sanitary Sewer Systems (SSSs) are municipal wastewater collection systems that convey domestic, commercial, and industrial wastewater, and limited amounts of infiltrated groundwater and storm water (i.e. I&I), to a POTW. SSSs are not designed to collect large amounts of storm water runoff from precipitation events.

Untreated or partially treated discharges from SSSs are commonly referred to as SSOs. SSOs have a variety of causes including blockages, line breaks, sewer defects that allow excess storm water and ground water to overload the system, lapses in sewer system operation and maintenance, inadequate sewer design and construction, power failures, and vandalism. A SSOs is defined as an untreated or partially treated sewage release from a SSS. SSOs can occur at any point in an SSS, during dry weather or wet weather. SSOs include overflows that reach waters of the state. SSOs also include overflows out of manholes and onto city streets, sidewalks, and other terrestrial locations. SSSs can back up into buildings, including private residences. When sewage backups are caused by problems in the publicly-owned portion of an SSS, they are considered SSOs.

Not Applicable ;

This facility is not required to develop or implement a program for maintenance and repair of the collection system; however, it is a violation of Missouri State Environmental Laws and Regulations to allow untreated wastewater to discharge to waters of the state.

**SCHEDULE OF COMPLIANCE (SOC):**

A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit.

Not Applicable ;

This permit does not contain a SOC.

**STORM WATER POLLUTION PREVENTION PLAN (SWPPP):**

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; (2) Authorized under section 402(p) of the CWA for the control of storm water discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

Not Applicable ;

At this time, the permittee is not required to develop and implement a SWPPP.

**WATER QUALITY STANDARDS:**

Per [10 CSR 20-7.031(3)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

**WHOLE EFFLUENT TOXICITY (WET) TEST:**

A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Not Applicable ;

At this time, the permittee is not required to conduct WET test for this facility.

**303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):**

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs. A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb

before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

Not Applicable ;

This facility does not discharge to a 303(d) listed stream.

**Part V – EFFLUENT LIMITS DETERMINATION**

**Outfall #001 – Main Facility Outfall**

**EFFLUENT LIMITATIONS TABLE:**

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
Flow	MGD	1	*		*	N/A	**
Biochemical Oxygen Demand <sub>5</sub>	mg/L	1		45	30	N/A	**
Total Suspended Solids	mg/L	1		45	30	N/A	**
pH	SU	1/2	6.5 – 9.0		6.5 – 9.0	N/A	**
Temperature	°C	1/5/9	*		*	N/A	**
Ammonia as N	mg/L	5/9	*		*	N/A	**
Monitoring Frequency	Please see Minimum Sampling and Reporting Frequency Requirements in the Derivation and Discussion Section below.						

\* Monitoring requirement only

\*\* This is a new permit.

N/A Not applicable

Basis for Limitations Codes:

- |  |                                    |
|--|------------------------------------|
| 1. State or Federal Regulation/Law       | 7. Antidegradation Policy          |
| 2. Water Quality Standard (includes RPA) | 8. Water Quality Model             |
| 3. Water Quality Based Effluent Limits   | 9. Best Professional Judgment      |
| 4. Lagoon Policy                         | 10. TMDL or Permit in lieu of TMDL |
| 5. Ammonia Policy                        | 11. WET test Policy                |
| 6. Dissolved Oxygen Policy               |                                    |

- **Flow.** In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification. Please see the attached Water Quality Review Sheet issued on July 5, 2005.
- **Biochemical Oxygen Demand (BOD<sub>5</sub>).** 45 mg/L as a Weekly Average and 30 mg/L as a Monthly Average. Please see the **APPLICABLE DESIGNATION OF WATERS OF THE STATE** sub-section of the **Receiving Stream Information**. Please see the attached Water Quality Review Sheet issued on July 5, 2005.
- **Total Suspended Solids (TSS).** 45 mg/L as a Weekly Average and 30 mg/L as a Monthly Average. Please see the **APPLICABLE DESIGNATION OF WATERS OF THE STATE** sub-section of the **Receiving Stream Information**. Please see the attached Water Quality Review Sheet issued on July 5, 2005.
- **pH.** Effluent limitation range is from 6.5 to 9.0 Standard pH Units (SU), as per the applicable section of 10 CSR 20-7.015. pH is not to be averaged. The attached Water Quality Review Sheet, issued on July 5, 2005, listed the pH as 6.0 to 9.0 based on the then-current regulations.
- **Temperature.** Monitoring requirement due to the toxicity of Ammonia varies by temperature. Please see the attached Water Quality Review Sheet issued on July 5, 2005.

- **Total Ammonia Nitrogen.** Monitoring requirement only. Monitoring for temperature and ammonia are included to determine whether “reasonable potential” to exceed water quality standards exists after the discharge begins. Please see the attached Water Quality Review Sheet issued on July 5, 2005.
- **Minimum Sampling and Reporting Frequency Requirements.**

PARAMETER	SAMPLING FREQUENCY	REPORTING FREQUENCY
Flow	once/month	once/month
Biochemical Oxygen Demand <sub>5</sub>	once/month	once/month
Total Suspended Solids	once/month	once/month
pH	once/month	once/month
Temperature	once/month	once/month
Ammonia as N	once/month	once/month

The department’s Permit Writer’s Manual, section 6.1.3 (dated May 2005), states the following:

Samples taken from wastewater treatment lagoons and in-stream can generally be grab samples. Samples taken from mechanical plants should be 24-hour composites except for those parameters for which a composite sample would not be appropriate.

The attached Water Quality Review Sheet, dated July 5, 2005, stated “All the parameters should be sampled on the same day and within no more than a 2-hour period.” The public notice of this permit, on August 5, 2005, listed the sampling type as grab samples. This permit also lists the sample type as grab samples, since the facility includes a lagoon and the previous guidance required only grab samples.

**Part VI – Administrative Requirements**

Based on preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit.

**Date of Statement of Basis:** July 9, 2010

**Date of Public Notice:** August 5, 2005

Submitted by

Scott Adams, E.I.  
 Environmental Engineer  
 Northeast Regional Office  
 (660) 385-8000  
[scott.adams@dnr.mo.gov](mailto:scott.adams@dnr.mo.gov)

Reviewed by

Philip Wilson, P.E.  
 Environmental Engineer  
 Northeast Regional Office  
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\_\_\_\_\_  
 Permit Writer

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Reviewer

\_\_\_\_\_  
 Date

Please note that this permit was put on public notice on August 5, 2005. The construction permit was issued on November 7, 2005. Due to permittee issues, this permit was not issued post construction. The application for an operating permit was submitted on July 1, 2010.



Missouri Department of Natural Resources  
 Water Protection Program  
 Water Pollution Control Branch  
 NPDES Permits and Engineering Section

**Water Quality Review Sheet**  
**Facilities with Design Flow < 22,500 gpd**  
*Determination of Effluent Limits*

**FACILITY INFORMATION**

FACILITY NAME: VOSS TRAILER COURT PERMIT #: NEW

FACILITY TYPE/DESCRIPTION: MOBILE HOME PARK

ECOLOGICAL DRAINAGE UNIT (EDU): OG 8-DIGIT HUC: 10300102 COUNTY: OSAGE

LEGAL DESCRIPTION: SW ¼ SEC. 14 T43N R8W LATITUDE/LONGITUDE: \_\_\_\_\_

WATER QUALITY HISTORY: NEW FACILITY

**OUTFALL CHARACTERISTICS**

OUTFALL	DESIGN FLOW (GPD)	TREATMENT TYPE	EFFLUENT TYPE
001	3,750	Secondary	Domestic wastewater

If facility design flow ≥ 22,500 gpd or effluent type is not municipal or domestic wastewater, a formal water quality review sheet must be completed.

**RECEIVING WATERBODY INFORMATION**

WATERBODY NAME: Unclassified section of Pointer's Creek CLASS: U

WATERBODY NAME: Pointer's Creek (WBID: 1460) CLASS: C

Discharge to or within two (2) miles of a losing stream (10 CSR 20-7.031, Table J or as determined by GSRAD)

Discharge to or within two (2) miles of a classified waterbody designated for whole body contact recreation

Use Attainability Analysis Conducted

If the facility discharges to any of the waterbody types below, is within an area experiencing rapid development, or if a site-specific water quality impact study has been conducted, this form is not applicable.

Lake/Reservoir  303(d) Waterbody  Metropolitan No-Discharge Stream

Outstanding National/State Resource Water and Drainages Thereto

**PERMIT LIMITS AND INFORMATION**

**OUTFALL #001**

*DISCHARGE GREATER THAN TWO (2) MILES FROM A CLASSIFIED WATERBODY DESIGNATED FOR WHOLE BODY CONTACT RECREATION*

PARAMETER	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MONITORING FREQUENCY
FLOW	GPD	*		*	Once/Month
TEMPERATURE	°C	*		*	Once/Month
BOD <sub>5</sub>	MG/L		45	30	Once/Month
TSS	MG/L		45	30	Once/Month
pH	S.U.	6 – 9		6 – 9	Once/Month
AMMONIA AS N	MG/L	*		*	Once/Month

Note 1 – Colonies/100 mL, \* – Monitoring Requirement Only

Please report the date, time, and location for each parameter sampled along with the average daily flow (actual flow measured or estimated, not design flow). All the parameters should be sampled on the same day and within no more than a 2-hour period. If discharge is contingent on storm events, rainfall should be measured every time there is a discharge.

**DERIVATION AND DISCUSSION OF LIMITS**

- **Biochemical Oxygen Demand (BOD<sub>5</sub>)** – 10 CSR 20-7.015(8)(B)1.
- **Total Suspended Solids (TSS)** – 10 CSR 20-7.015(8)(B)1.
- **pH** – 10 CSR 20-7.015(8)(B)2.
- **Ammonia as Nitrogen** – Monitoring Requirement Only.

Standard secondary treatment technology based limits for BOD<sub>5</sub>, TSS, and pH are assumed to be protective of the receiving stream based on the small size of the proposed discharge. Monitoring for temperature and ammonia are included to determine whether “reasonable potential” to exceed water quality standards exists after the discharge begins. Permit will contain a “reopener clause” to address potential water quality issues should this or other monitoring or observations indicate water quality standards may be exceeded or if existing designated uses may be negatively impacted due either in whole or in part to this discharge.

Reviewer: Alan Moreau  
 Date: 07/05/05  
 Approver: Refaat Mefrakis