

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 RSMo, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

| | |
|---------------------------------|--|
| Permit No. | MO-0123021 |
| Owner: | Environmental Operations, Inc. |
| Address: | 7733 Forsyth Blvd., Clayton, MO 63050 |
| Continuing Authority: | Same as above |
| Address: | Same as above |
| Facility Name: | Valley Park TCE – Wainwright Operable Unit |
| Facility Address: | 224 Benton St., Valley Park, MO 63088 |
| Legal Description: | Landgrant 2999, St. Louis County |
| UTM Coordinates: | X = 718875, Y = 4269981 |
| Receiving Stream: | Manmade conduit to Meramec River (P) |
| First Classified Stream and ID: | Meramec River (P); WBID# 2183; 303(d) List |
| USGS Basin & Sub-watershed No.: | 07140102-1002 |


authorizes activities pursuant to the terms and conditions of this permit in accordance with the Missouri Clean Water Law and/or the National Pollutant Discharge Elimination System; it does not apply to other regulated activities.

FACILITY DESCRIPTION

Groundwater extraction, treatment, and discharge to surface. SIC #8999; NAICS #541620. This facility does not require a certified wastewater operator per 10 CSR 20-9.030 as this facility is privately owned. Domestic wastewater is not generated at this site. Treatment methods: pumping groundwater; air stripping, carbon filtration
Design Flow: 0.04 MGD
Average Flow: 0.02 MGD

November 1, 2023
Effective Date

October 31, 2028
Expiration Date



John Hoke, Director, Water Protection Program

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

| OUTFALL #001 <i>treated groundwater</i> | TABLE A-1 FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS | | | | |
|--|---|----------------------------|--------------------|-------------------------------------|--------------|
| The facility is authorized to discharge from outfall(s) as specified. The final effluent limitations shall become effective on November 1, 2023 and remain in effect until expiration of the permit. Discharges shall be controlled, limited, and monitored by the facility as specified below: | | | | | |
| EFFLUENT PARAMETERS | UNITS | FINAL EFFLUENT LIMITATIONS | | MONITORING REQUIREMENTS | |
| | | DAILY MAXIMUM | MONTHLY AVERAGE | MINIMUM MEASUREMENT FREQUENCY | SAMPLE TYPE |
| LIMIT SET M: MONTHLY DISCHARGE | | | | | |
| PHYSICAL | | | | | |
| Flow | MGD | * | * | once/week | 24 hr. total |
| CONTAMINANTS OF CONCERN | | | | | |
| pH † | SU | 6.5 to 9.0 | - | once/month | grab |
| Tetrachloroethylene (PCE) | µg/L | * | 80 | once/month | grab |
| Tetrachloroethylene, % remaining | % | 2 | 2 | once/month | calculation |
| Trichloroethylene (TCE) | µg/L | * | 8.85 | once/month | grab |
| Trichloroethylene, % remaining | % | 2 | 2 | once/month | calculation |
| LIMIT SET IM: INFLUENT MONITORING | | | | | |
| Tetrachloroethylene (PCE) | µg/L | * | * | once/month | grab |
| Trichloroethylene (TCE) | µg/L | * | * | once/month | grab |
| MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>DECEMBER 28, 2023</u> . | | | | | |

* Monitoring and reporting requirement only

† pH: the facility will report the minimum and maximum values; pH is not to be averaged.

% remaining is the percentage discharged after treatment; comparing the influent from the effluent, see special condition #1.

B. STANDARD CONDITIONS

In addition to specified conditions stated herein, this permit is subject to the attached Part I standard conditions dated August 1, 2014, and hereby incorporated as though fully set forth herein.

C. SPECIAL CONDITIONS

- The permittee shall operate the groundwater treatment system such that 98% of all tetrachloroethylene/perchloroethylene (PCE) and trichloroethylene (TCE) is removed from the groundwater prior to discharge from outfall #001. The facility will report the result of influent and effluent sampling and determine the percent remaining of each parameter.
 - Calculations will be conducted as provided below:
 - For all non-detects of the parameters, the facility will report 0%.
 - For detections, the facility will divide the effluent by the influent value and provide the percentage.
 - The limitation for these parameters will be specified at 2%.
 - Operational maintenance of the system must be employed to effectively remove the specified contaminants at all times.
 - 40 CFR 125.41(e) indicates the permittee shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures.
- Spills, Overflows, and Other Unauthorized Discharges.
 - Any spill, overflow, or other discharge(s) not specifically authorized are unauthorized discharges.
 - If an unauthorized discharge cause or permit any contaminants to discharge or enter waters of the state, the unauthorized discharge must be reported to the regional office as soon as practicable but no more than 24 hours after the discovery of the discharge. If the spill or overflow needs to be reported after normal business hours or on the weekend, the facility must call the Department's 24 hour spill line at 573-634-2436.
- Electronic Discharge Monitoring Report (eDMR) Submission System. The NPDES Electronic Reporting Rule, 40 CFR Part 127, reporting of effluent monitoring data and any report required by the permit (unless specifically directed otherwise by the permit),

shall be submitted via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data for the NPDES program. The eDMR system is currently the only Department-approved reporting method for this permit unless specified elsewhere in this permit, or a waiver is granted by the Department. The facility must register in the Department's eDMR system through the Missouri Gateway for Environmental Management (MoGEM) before the first report is due. All reports uploaded into the system shall be reasonably named so they are easily identifiable, such as "WET Test Chronic Outfall 002 Jan 2023", or "Outfall004-DailyData-Mar2025".

4. Site-wide minimum Best Management Practices (BMPs)

At a minimum, the facility shall adhere to the following:

- (a) Provide good housekeeping practices on the site to keep trash from entry into waters of the state. Dumpsters must remain closed when not in use.
- (b) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, warehouse activities, and other areas, to prevent the contamination of stormwater from these substances.
- (c) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
- (d) Store all paint, solvents, petroleum products, petroleum waste products, and storage containers (such as drums, cans, or cartons) so these materials are not exposed to stormwater or provide other prescribed BMPs such as plastic lids and/or portable spill pans to prevent the commingling of stormwater with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater. Spill records shall be retained on-site or readily accessible electronically.
- (e) The facility shall not discharge substances resulting from an on-site spill.
- (f) The facility shall not apply salt and sand (traction control) in excess of what is required to maintain safe roadways and walkways. In the spring, after potential for additional snow or ice accumulation, if there is evidence of significant excess traction control materials, the facility shall remove excess sand or salt as soon as possible to minimize and control the discharge of salt and solids. At all times the facility shall use salt judiciously to minimize freshwater salinization.
- (g) Salt and sand shall be stored in a manner minimizing mobilization in stormwater (for example: under roof, in covered container, under tarp, etc.).

5. Reporting Non-Detects

- (a) Compliance analysis conducted by the facility or any contracted laboratory shall be conducted in such a way the precision and accuracy of the analyzed result can be enumerated. See sufficiently sensitive test method requirements in Standard Conditions Part I, §A, No. 4 regarding proper testing and detection limits used for sample analysis. For the purposes of this permit, the definitions in 40 CFR 136 apply; method detection limit (MDL) and laboratory-established reporting limit (RL) are used interchangeably in this permit. The reporting limits established by the laboratory must be below the lowest effluent limits established for the specified parameter (including any parameter's future limit after an SOC) in the permit unless the permit provides for an ML.
- (b) The facility shall not report a sample result as "non-detect" without also reporting the MDL. Reporting "non-detect" without also including the MDL will be considered failure to report, which is a violation of this permit.
- (c) For the daily maximum, the facility shall report the highest value; if the highest value was a non-detect, use the less than "<" symbol and the laboratory's highest method detection limit (MDL) or the highest reporting limit (RL); whichever is higher (e.g. <6).
- (d) When calculating monthly averages, zero shall be used in place of any value(s) not detected. Where all data used in the average are below the MDL or RL, the highest MDL or RL shall be reported as "<#" for the average as indicated in item (c).

6. Failure to pay fees associated with this permit is a violation of the Missouri Clean Water Law (644.055 RSMo).

7. All outfalls must be clearly marked.

8. Report no discharge when a discharge does not occur during the report period. It is a violation of this permit to report no-discharge when a discharge has occurred.

9. All records required by this permit may be maintained electronically. These records can be maintained in a searchable format.

10. Changes in Discharges of Toxic Pollutant.

In addition to the reporting requirements under 40 CFR 122.41, all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director per 40 CFR 122.42(a)(1) and (2) as soon as recognizing:

- (a) An activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, 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;
 - (3) Five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol;
 - (4) One milligram per liter (1 mg/L) for antimony;
 - (5) Five (5) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
 - (6) The notification level established by the Department in accordance with 40 CFR 122.44(f).
 - (b) Any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) Five hundred micrograms per liter (500 µg/L);
 - (2) One milligram per liter (1 mg/L) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7).
 - (4) The level established by the Director in accordance with 40 CFR 122.44(f).
 - (c) Authorization of new or expanded pollutant discharges may be required under a permit modification or renewal, and may require an antidegradation review.
11. This permit does not authorize the facility to accept, treat, or discharge wastewater from other sources unless explicitly authorized herein. If the facility would like to accept, treat, or discharge wastewater from another activity or facility, the permit must be modified to include external wastewater pollutant sources in the permit.
 12. The full implementation of this operating permit, which includes implementation of any applicable schedules of compliance, shall constitute compliance with Sections 301, 302, 306, 307, and 403 of the federal Clean Water Act, except for standards imposed under Section 307 for toxic pollutants injurious to human health, and with equivalent provisions of the Missouri Clean Water Law, in accordance with Section 644.051.16 RSMo and CWA §402(k). 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 CWA §§301(b)(2)(C) and (D), §304(b)(2), and §307(a)(2), 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 already limited in the permit. This permit may be modified, revoked and reissued, or terminated for cause, including determination new pollutants found in the discharge not identified in the application for the new or revised permit. The filing of a request by the facility for a permit modification, termination, notice of planned changes, or anticipated non-compliance does not stay any permit condition.
 13. Any discharges (or qualified activities such as land application) not expressly authorized in this permit, and not clearly disclosed in the permit application, cannot become authorized or shielded from liability under CWA section 402(k) or Section 644.051.16, RSMo, by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including any other permit applications, funding applications, the SWPPP, discharge monitoring reporting, or during an inspection. Submit a permit modification application, and an antidegradation determination if appropriate, to request authorization of new or expanded discharges.
 14. **Renewal Application Requirements.**
 - (a) This facility shall submit an appropriate and complete application to the Department no less than 180 days prior to the expiration date listed on page 1 of the permit.
 - (b) Application materials shall include complete Form A, and Form C. If the form names have changed, the facility must ensure they are submitting the correct forms as required by regulation.
 - (c) Sufficiently sensitive analytical methods must be used. A sufficiently sensitive method is one that can effectively describe the presence or absence of a pollutant at or below that pollutant's permit limit or water quality standard.
 - (d) The facility may use the electronic submission system to submit the application to the Program, if available.

D. NOTICE OF RIGHT TO APPEAL

If you were adversely affected by this decision, you may be entitled to pursue an appeal before the administrative hearing commission (AHC) pursuant to 621.250 and 644.051.6 RSMo. To appeal, you must file a petition with the AHC within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC. Any appeal shall be directed to:

Administrative Hearing Commission; U.S. Post Office Building, Third Floor
131 West High Street, P.O. Box 1557; Jefferson City, MO 65102-1557
Phone: 573-751-2422; Fax: 573-751-5018; Website: <https://ahc.mo.gov>

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FACT SHEET
FOR THE PURPOSE OF RENEWAL OF
MO-0123021
VALLEY PARK, WAINWRIGHT –TCE GROUNDWATER TREATMENT

The Federal Water Pollution Control Act (Clean Water Act (CWA) §402 Public Law 92-500 as amended) established the National Pollutant Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point - sources into the waters of the United States, and the release of stormwater from certain point sources. All such discharges are unlawful without a permit (§301 of the Clean Water Act). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal Clean Water Act and Missouri Clean Water Law 644 RSMo as amended). MSOPs may also cover underground injection, non-discharging facilities, and land application facilities. Permits are issued for a period of five (5) years unless otherwise specified for less.

Per 40 CFR Part 124.8(a) and 10 CSR 20-6.020(1)(A)2 a factsheet shall be prepared to give pertinent information regarding applicable regulations, rationale for the development of limitations and conditions, and the public participation process for the Missouri State Operating Permit (MSOP or permit) listed below. A factsheet is not an enforceable part of a permit.

PART I. FACILITY INFORMATION

Facility Type: Industrial: minor, non-categorical, <1 MGD
SIC Code(s): #8999
NAICS Code(s): 541620
Application Date: 12/09/2022
Expiration Date: 06/30/2023

FACILITY DESCRIPTION

The Wainwright operable unit is a groundwater treatment unit. Former site occupants, Wainwright Industries, operated a metal stamping tool and dye shop from 1947-1979. Tetrachloroethylene (Perchloroethylene, PCE) and Trichloroethylene (TCE) were used in a solvent degreasing system. Soil and groundwater became contaminated with TCE and PCE due to spills. A groundwater extraction and treatment system is currently operated on site. Groundwater is pumped through a low profile air stripper for treatment and removal of the volatile organic compounds (VOCs), and is also carbon filtered. Treated water is discharged from the facility into the storm drain (St. Louis MS4) and is discharged to the Meramec River.

Items listed in the facility (or outfall) description, applicable to the operation, maintenance, control, and resultant effluent quality are required to be enumerated in the facility description. The facility description ensures the facility continues to operate the wastewater (or stormwater) controls listed in the permit to preserve and maintain the effluent quality pursuant to 40 CFR 122.21(e). Any planned changes to the facility (which changes the facility or outfall description) are required to be reported to the Department pursuant to 40 CFR 122.41(l)(1)(ii). If the facility does not or cannot use all of their disclosed treatment devices, this is considered bypassing pursuant to 40 CFR 122.41(m) in the case of wastewater, and BMP disruption in the case of stormwater.

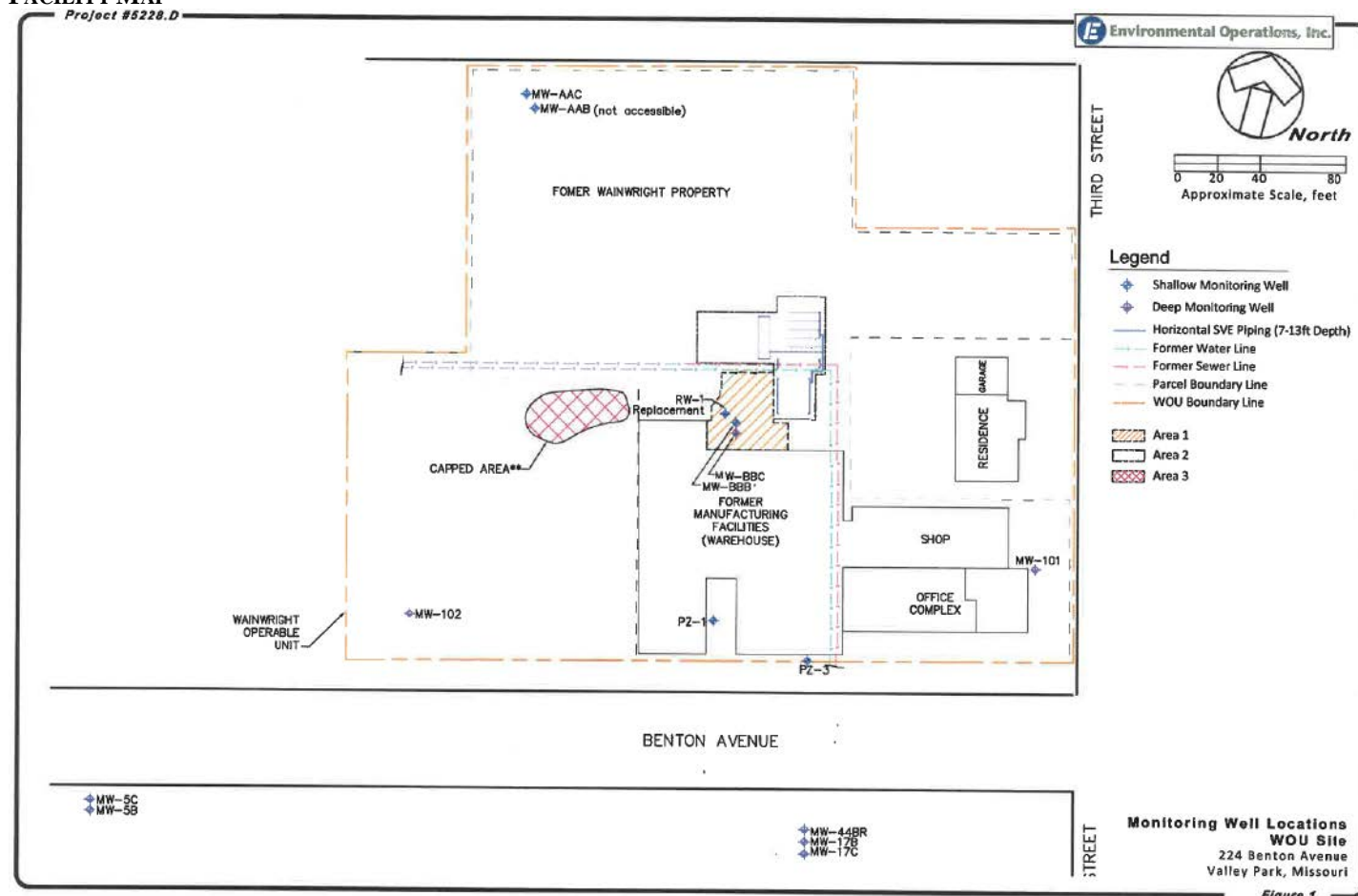
PERMITTED FEATURES TABLE

| OUTFALL | AVERAGE FLOW | DESIGN FLOW | TREATMENT LEVEL | EFFLUENT TYPE |
|---------|--------------|-------------|----------------------------------|---|
| #001 | 0.02 MGD | 0.04 MGD | air stripping, carbon filtration | groundwater pump, treat, and discharge to MS4 |

FACILITY PERFORMANCE HISTORY & COMMENTS

The electronic discharge monitoring reports were reviewed for the last five years; one month reported exceedances of the treatment percent removal for both PCE and TCE. This resulted in discharges of PCE and TCE above the WQS; this warrants effluent limits to protect human health for both PCE and TCE. Because this exceedance was a treatment system failure, no schedule of compliance is warranted. No inspection was found to be conducted during the last permit term.

FACILITY MAP



CONTINUING AUTHORITY

Pursuant to 10 CSR 20-6.010(2)(A) and (E), the Department has received the appropriate continuing authority authorized signature from the facility. The Missouri Secretary of State continuing authority charter number for this facility is 00292202; this number was verified to be associated with the facility and precisely matches the continuing authority reported by the facility. Pursuant to 10 CSR 20-6.010(2)(B)4, this facility is a Level 4 Authority; this facility falls within the East-West Gateway and the East-West Gateway has not determined that this facility needs to connect to the local POTW.

OTHER ENVIRONMENTAL PERMITS

In accordance with 40 CFR 122.21(f)(6), the Department evaluated other environmental permits currently held by this facility. <https://cumulis.epa.gov/supercpad/SiteProfiles/index.cfm?fuseaction=second.cleanup&id=0701494> This facility is part of a superfund cleanup.

PART II. RECEIVING WATERBODY INFORMATION

RECEIVING WATERBODY TABLE:

| OUTFALL | WATERBODY NAME | CLASS | WBID | DESIGNATED USES | DISTANCE TO SEGMENT | 12-DIGIT HUC |
|---------|----------------------------------|-------|------|--|---------------------|---|
| #001 | MS4 conduit to the Meramec River | P | 2183 | Impaired Uses: WBC-A Obtained Uses: AQL, DWS, IND, IRR, LWW, SCR, HHP | 0.3 mi | 07140102-1002 Grand Glaize Creek – Meramec River |

Classes are representations of hydrologic flow volume or lake basin size per 10 CSR 20-7.031(1)(E).

Designated uses are described in 10 CSR 20-7.031(1)(F).

WBID: Waterbody Identification Number per 10 CSR 20-7.031(1)(Q) and (S)

HUC: Hydrologic Unit Code <https://water.usgs.gov/GIS/huc.html>

Water Quality Standards Search https://apps5.mo.gov/mocwis_public/waterQualityStandardsSearch.do

EXISTING WATER QUALITY & IMPAIRMENTS

The receiving waterbody(s) segment(s), upstream, and downstream confluence water quality was reviewed. The USGS <https://waterdata.usgs.gov/nwis/sw> or the Department's quality data database was reviewed.

https://apps5.mo.gov/mocwis_public/wqa/waterbodySearch.do and <https://apps5.mo.gov/wqa/> Impaired waterbodies which may be impacted by discharges from this facility were determined. Impairments include waterbodies on the 305(b) or 303(d) list and those waterbodies or watersheds under a TMDL. <https://dnr.mo.gov/water/what-were-doing/water-planning/quality-standards-impaired-waters-total-maximum-daily-loads/tmdls> Section 303(d) of the federal Clean Water Act requires each state identify waters not meeting water quality standards and for which adequate water pollution controls have not been required. <https://dnr.mo.gov/water/what-were-doing/water-planning/quality-standards-impaired-waters-total-maximum-daily-loads/impaired-waters> Water quality standards protect beneficial uses of water provided in 10 CSR 20-7.031. The 303(d) list helps state and federal agencies keep track of impaired waters not addressed by normal water pollution control programs. A TMDL is a calculation of the maximum amount of a given pollutant a water body can absorb before its water quality is affected; hence, the purpose of a TMDL is to determine the pollutant loading a specific waterbody can assimilate without exceeding water quality standards.

- ✓ Applicable; the Meramec River is listed on the 2016 Missouri 303(d) list for E. coli and lead. This facility is not considered a source of the above listed pollutant(s) or considered to contribute to the impairment.

WATERBODY MIXING CONSIDERATIONS

For all wastewater outfalls, mixing zone and zone of initial dilution are not allowed because the parameters limited in this permit are for protection of human health and are bioaccumulative pollutants.

PART III. RATIONALE AND DERIVATION OF PERMIT CONDITIONS

ANTIBACKSLIDING

Federal antibacksliding requirements per CWA §402(o) and 40 CFR § 122.44(l) [https://www.ecfr.gov/current/title-40/chapter-I/subchapter-D/part-122#p-122.44\(l\)](https://www.ecfr.gov/current/title-40/chapter-I/subchapter-D/part-122#p-122.44(l)) generally prohibit a reissued permit from containing effluent limitations that are less stringent than the previous permit, with some exceptions. All renewed permits are analyzed for evidence of backsliding. There are several express statutory exceptions to the antibacksliding requirements, located in CWA § 402(o)(2) and 40 CFR 122.44(l). Parameters are discussed individually in Part IV of the fact sheet.

- ✓ The limits from the last permit are continued; additional limits are added to this permit. There is no backsliding in this permit.

ANTIDEGRADATION REVIEW

Discharges with new, altered, or expanding flows, the Department is to document, by means of antidegradation review, if the use of a water body's available assimilative capacity is justified. See <https://dnr.mo.gov/document-search/antidegradation-implementation-procedure>

- ✓ Not applicable; the facility has not submitted information proposing new or expanded discharge; no further degradation proposed therefore no further review necessary.

BEST MANAGEMENT PRACTICES (BMPs)

Minimum site-wide best management practices (BMPs) are established in this permit to ensure all facilities are managing their sites equally to protect waters of the state from certain activities which could cause negative effects in receiving water bodies. While not all sites require a SWPPP because the SIC codes are specifically exempted in 40 CFR 122.26(b)(14) or 10 CSR 20-6.200(2), these best management practices are not specifically included only for stormwater purposes. These practices are minimum requirements for all industrial sites to protect waters of the state. If the minimum best management practices are not followed, the facility may violate general criteria per 10 CSR 20-7.031(4). Statutes are applicable to all permitted facilities in the state, therefore pollutants cannot be released unless in accordance with 644.011 and 644.016 (17) RSMo.

CLOSURE

To properly decontaminate and close a wastewater storage structure, treatment structure, lagoon, basin, or device, the facility must draft a complete closure plan, and include the Closure Request Form #2512 <https://dnr.mo.gov/document-search/facility-closure-request-form-mo-780-2512> The publication, Wastewater Treatment Plant Closure - PUB2568 found at <https://dnr.mo.gov/print/document-search/pub2568> may be helpful to develop the closure plan. The regional office will then approve the closure plan, and provide authorization to begin the work. The regional office contact information can be found here: <https://dnr.mo.gov/about-us/division-environmental-quality/regional-office>

CHANGES IN DISCHARGES OF TOXIC POLLUTANT

This special condition reiterates the federal rules found in 40 CFR 122.44(f) for technology treatments and 122.42(a)(1) for all other toxic substances. In these rules, the facility is required to report changes in amounts of toxic substances discharged. Toxic substances are defined in 40 CFR 122.2 as any pollutant listed as toxic under section 307(a)(1) or, in the case of "sludge use or disposal practices," any pollutant identified in regulations implementing section 405(d) of the CWA." Section 307 of the clean water act then refers to those parameters listed in 40 CFR 401.15 and any other toxic parameter the Department determines is applicable for

reporting under these rules in the permit. The facility must also consider any other toxic pollutant in the discharge as reportable under this condition and must report all increases to the Department as soon as discovered in the effluent. The Department may open the permit to implement any required effluent limits pursuant to CWA §402(k) where sufficient data was not supplied within the application but was supplied at a later date by either the facility or other resource determined to be representative of the discharge, such as sampling by Department personnel.

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 facility is not currently under Water Protection Program enforcement action.

DISCHARGE MONITORING REPORTING – ELECTRONIC (EDMR) SUBMISSION SYSTEM

The U.S. Environmental Protection Agency (EPA) promulgated a final rule on October 22, 2015, to modernize Clean Water Act reporting for municipalities, industries, and other facilities by requiring electronic data reporting. To comply with the federal rule, the Department is requiring all facilities to submit discharge monitoring data and reports online. To review historical data, the Department's database has a publically facing search engine, available at https://apps5.mo.gov/mocwis_public/dmrDisclaimer.do

Registration and other information regarding MoGEM can be found at <https://dnr.mo.gov/mogem>. Information about the eDMR system can be found at <https://dnr.mo.gov/env/wpp/edmr.htm>. The first user shall register as an Organization Official and the association to the facility must be approved by the Department. To access the eDMR system, use: <https://apps5.mo.gov/mogems/welcome.action> For assistance using the eDMR system, contact edmr@dnr.mo.gov or call 855-789-3889 or 573-526-2082. To assist the facility in entering data into the eDMR system, the permit describes limit sets designators in each table in Part A of the permit. Facility personnel will use these identifiers to ensure data entry is being completed appropriately. For example, M for monthly, Q for quarterly, A for annual, and others as identified.

DOMESTIC WASTEWATER, SLUDGE, AND BIOSOLIDS

Domestic wastewater is defined as wastewater originating primarily from the sanitary conveyances of bathrooms and kitchens. Domestic wastewater excludes stormwater, wash water, animal waste, process, or ancillary wastewater.

✓ Not applicable; this facility does not have domestic facilities associated with it.

EFFLUENT LIMITATIONS

Two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs) are reviewed. Permits are required to establish the most stringent or most protective limit per 10 CSR 20-7.015(9)(A) and 40 CFR 122.44(b)(1). Effluent limitations derived and established for this permit are based on current operations of the facility. Any flow through the outfall is considered a discharge and must be sampled and reported per permit requirements. Daily maximums and monthly averages are required for continuous discharges per 40 CFR 122.45(d)(1). Weekly limits are not available for non-POTWs.

ENVIRONMENTAL JUSTICE AND TITLE VI OF THE CIVIL RIGHTS ACT OF 1964

The Department has no federal or state statutory or regulatory basis to conduct internally, or require the facility to conduct, any analysis, including cumulative impacts analysis, as a direct result of federal environmental justice policy. Additionally, if the Department acted in such a manner without statutory or regulatory authority, it would further have no basis to articulate the results of that analysis into new or different permit conditions. In short, the Department does not have the authority to establish any Environmental Justice-related conditions as part of the permitting obligation. The Department is expressly prohibited from taking any permitting action based solely on guidance pursuant to 640.023 RSMo; and per 640.016.1 RSMo, is also prohibited from including in permits requirements that are not prescribed or authorized by regulation or statute, unless the requirement, provision, stipulation, or other restriction is pursuant to the authority addressed in statute.

The purpose of an operating permit is to incorporate or otherwise establish all applicable regulatory requirements at the time of permit issuance. The NPDES operating permit identifies, in one document, the regulatory requirements pertaining to discharges of water, to which the facility is subject. The permit's fact sheet enables the State, EPA, the permittee, and the public to better understand those requirements and determine whether the permit's requirements are being met. The NPDES permit does not apply to other regulated areas, such as air or waste materials.

The permit does not and cannot address air pollution or solid waste, and therefore only water concerns are reviewed. There is no basis in law to make adjustments to water permit conditions based upon another media.

Environmental Justice

Environmental justice, is solely federal policy guidance. As discussed above, the Department can only impose permit conditions for which there is basis in statute or regulation. The Department will not violate state law in order to meet the spirit of a federal policy, the Department does not have the regulatory authority to do so.

There are fundamental differences between Title VI, which is applicable federal law, and environmental justice, which is federal policy guidance. As discussed above, the Department can only impose permit conditions for which there is basis in statute or regulation.

Title VI of the Civil Rights Act of 1964

It is important to note that presence of a pollutant does not automatically equate to exposure, risk, harm, disparity, or adversity. The permit review and issuance process are facially neutral actions, and therefore the Title VI analysis must be limited to whether there is adversity or harm, disparity, and causation. The Department used the same permit practice with this permit, as with other permits across the state. This impartiality ensures that this permit's decisions do not have a sufficiently adverse or disparate effect based on race, color, national origin, or sex.

Under Title VI, adversity exists if a fact-specific inquiry determines that the nature, size, or likelihood of the impact is sufficient to make it an actionable harm. The presence of a discharge or a regulated water contaminant source does not automatically equate to harm, much less actionable harm. This operating permit implements the appropriate and relevant requirements under Missouri Clean Water Law.

FEDERAL EFFLUENT LIMITATION GUIDELINES

Effluent Limitation Guidelines (ELGs) are found at 40 CFR 400-499. <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-N> These are limitations established by the EPA based on the type of activities a facility is conducting. Most ELGs are for process wastewater and some address stormwater. Effluent guidelines are not always established for every pollutant present in a point source discharge. In many instances, EPA promulgates effluent guidelines for an indicator pollutant. Industrial facilities complying with the effluent guidelines for the indicator pollutant will also control other pollutants (e.g. pollutants with a similar chemical structure). For example, EPA may choose to regulate only one of several metals present in the effluent from an industrial category, and compliance with the effluent guidelines will ensure similar metals present in the discharge are adequately controlled. All are technology based limitations which must be met by the applicable facility at all times. If Reasonable Potential is established for any particular parameter, and water-quality based effluent limits are more protective of the receiving water's quality, the WQBEL will be used as the limiting factor in accordance with 40 CFR 122.44(d) and 10 CSR 20-7.015(9)(A).

✓ The facility does not have an associated ELG.

GENERAL CRITERIA CONSIDERATIONS

In accordance with 40 CFR 122.44(d)(1), effluent limitations shall be placed into permits for pollutants determined to cause, have reasonable potential to cause, or to contribute to, an excursion above any water quality standard, including narrative water quality criteria. In order to comply with this regulation, permit decisions were made by completing a reasonable potential determination on whether discharges have reasonable potential to cause, or contribute to an excursion of the general criteria listed in 10 CSR 20-7.031(4). See Part III REASONABLE POTENTIAL for more information. In instances where reasonable potential exists, the permit includes limitations to address the reasonable potential. In discharges where reasonable potential does not exist, the permit may include monitoring to later determine the discharge's potential to impact the narrative criteria. Additionally, 644.076.1 RSMo, and Part I §D – Administrative Requirements of Standard Conditions included in this permit state it shall be unlawful for any person to cause or allow any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of §§644.006 to 644.141 of the Missouri Clean Water Law or any standard, rule, or regulation promulgated by the commission. See Part IV for specific determinations.

GOOD HOUSEKEEPING PRACTICES

Good housekeeping is a practical, cost-effective way to maintain a clean and orderly facility to prevent potential pollution sources from coming into contact with stormwater. It includes establishing protocols to reduce the possibility of mishandling materials or equipment and employee training. Common areas where good housekeeping practices should be followed include trash containers and adjacent areas, material storage areas, vehicle and equipment maintenance areas, and loading docks. Good housekeeping practices must include a schedule for regular pickup and disposal of garbage and waste materials and routine inspections of drums, tanks, and containers for leaks and structural conditions. Practices also include containing and covering garbage, waste materials, and debris. Involving employees in routine monitoring of housekeeping practices is an effective means of ensuring the continued implementation of these measures.

Specific good housekeeping may include:

- ◆ Spill and overflow protection under chemical or fuel connectors to contain spillage at liquid storage tanks
- ◆ Load covers on residue hauling vehicles and ensure gates on trucks are sealed and the truck body is in good condition
- ◆ Containment curbs around loading/unloading areas or tanks
- ◆ Techniques to reduce solids residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles.
- ◆ Techniques to reduce solid residue on exit roads leading into and out of residue handling areas

Where feasible, minimizing exposure of potential pollutant sources to precipitation is an important control option. Minimizing exposure prevents pollutants, including debris, from coming into contact with precipitation and can reduce the need for BMPs to treat contaminated stormwater runoff. It can also prevent debris from being picked up by stormwater and carried into drains and surface waters. Examples of BMPs for exposure minimization include covering materials or activities with temporary structures (e.g., tarps) when wet weather is expected or moving materials or activities to existing or new permanent structures (e.g., buildings, silos, sheds). Even the simple practice of keeping a dumpster lid closed can be a very effective pollution prevention measure. For erosion and sediment control, BMPs must be selected and implemented to limit erosion on areas of your site that, due to topography, activities, soils, cover, materials, or other factors, are likely to experience erosion. Erosion control BMPs such as seeding, mulching, and sodding prevent soil from becoming dislodged and should be considered first. Sediment control BMPs such as silt fences, sediment ponds, and stabilized entrances trap sediment after it has eroded. Sediment control BMPs should be used to back-up erosion control BMPs.

The SWPPP (if required for this facility) must contain a narrative evaluation of the appropriateness of stormwater management practices that divert, infiltrate, reuse, or otherwise manage stormwater runoff so as to reduce the discharge of pollutants. Appropriate measures are highly site-specific, but may include, among others, vegetative swales, collection and reuse of stormwater, inlet controls, snow management, infiltration devices, and wet retention measures. A combination of preventive and treatment BMPs will yield the most effective stormwater management for minimizing the offsite discharge of pollutants via stormwater runoff. BMPs schedules must also address preventive maintenance records or logbooks, regular facility inspections, spill prevention and response, and employee training.

GROUNDWATER MONITORING

Groundwater is a water of the state according to 644.016(27) RSMo, is subject to regulations at 10 CSR 20-7.015(7) and 10 CSR 20-7.031(6), and must be protected accordingly.

✓ This facility is not required to monitor groundwater for the water protection program.

ICE-MELT PRODUCT REMOVAL

The Department is authorized to require BMPs for facilities per 40 CFR 122.44(k)(2). The facility should, to the extent practicable, remove large pieces of salt as soon as possible. After winter weather has ceased for the year, the facility needs to inspect all low-lying areas for extra salt and sand, and remove these as soon as possible. Salt applied to large areas has the potential to cause freshwater salinization which could result in a fish kill of sensitive species. To reduce potential for solids entering a stream, sand or other traction control materials will need to be evaluated against the probability that these materials could cause general criteria violations of solids and bottom deposits per 10 CSR 20-7.031(4).

LAND APPLICATION

Land application, which is surficial dispersion of wastewater or surficial spreading of sludge can be performed by facilities as an alternative to discharging. Authority to regulate these activities is pursuant to 644.026 RSMo. The Department implements requirements for these types of operations pursuant to 10 CSR 20-6.015(4)(A)1 which instructs the Department to develop permit conditions containing limitations, monitoring, reporting, and other requirements to protect soils, crops, surface waters, groundwater, public health, and the environment. Sub-surface dispersion or application of wastewater is typically considered a Class V UIC system; See UNDERGROUND INJECTION CONTROL section below.

✓ Not applicable; this permit does not authorize operation of a surficial land application system to disperse wastewater or sludge.

LAND DISTURBANCE

Land disturbance, sometimes called construction activities, are actions which cause disturbance of the root layer or soil; these include clearing, grading, and excavating of the land. 40 CFR 122.26(b)(14) and 10 CSR 20-6.200(3) requires permit coverage for these activities. Coverage is not required for facilities when only providing maintenance of original line and grade, hydraulic capacity, or to continue the original purpose of the facility.

✓ Not applicable; this permit does not provide coverage for land disturbance activities. The facility may obtain a separate land disturbance permit (MORA) online at <https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/stormwater/construction-land-disturbance> MORA permits may not cover disturbance of contaminated soils, however, site specific permits such as this one can be modified to include appropriate controls for land disturbance of contaminated soils by adding site-specific BMP requirements and additional outfalls.

MODIFICATION REQUESTS

Facilities have the option to request a permit modification from the Department at any time under RSMo 644.051.9. Requests must be submitted to the Water Protection Program with the appropriate forms and fees paid per 10 CSR 20-6.011. It is recommended facilities contact the program early so the correct forms and fees are submitted, and the modification request can be completed in a timely fashion. Minor modifications, found in 40 CFR 122.63, are processed without the need for a public comment period. Major modifications, those requests not explicitly fitting under 40 CFR 122.63, do require a public notice period. Modifications to permits must be completed when: a new pollutant is found in the discharge; operational or functional changes occur which affect the technology, function, or outcome of treatment; the facility desires alternate numeric benchmarks; or other changes are needed to the permit.

Modifications are not required when utilizing or changing additives in accordance with the publication <https://dnr.mo.gov/document-search/additive-usage-wastewater-treatment-facilities-pub2653/pub2653> nor are required when a temporary change or provisional discharge has been authorized by the regional office. While provisional discharges may be authorized by the regional office, they will not be granted for more than the time necessary for the facility to obtain an official modification from the Water Protection Program. Temporary provisional discharges due to weather events or other unforeseen circumstances may or may not necessitate a permit modification. The facility may ask for a Compliance Assistance Visit (CAV) from the regional office to assist in the decision-making process; CAVs are provided free to the permitted entity.

MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)

This permit allows discharge to waters of the state. The discharges this permit allows flow into and through the city's stormwater collection system. Regulated MS4s are managed by public entities, cities, municipalities, or counties. This facility discharges into a separate storm sewer system, the facility must make contact with the owner/operator of that system to coordinate with them.

PERFORMANCE-BASED LIMITATIONS

Select effluent limitations in this permit were developed using site specific data. 40 CFR 125.3 requires permit writers to establish effluent limitations for parameters of concern. Effluent limits ensure additional pollutants from the outfall will not adversely affect the receiving stream, assure the facility is operating the system optimally, and excessive pollutants are not discharged in accordance with CWA §301(b)(1)(A). Additional information can be found regarding the development of site-specific limitations in Chapter 5 of the EPA's permit writer's manual at https://www.epa.gov/sites/production/files/2015-09/documents/pwm_chapt_05.pdf 40 CFR 125.41(e) indicates the permittee shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. These requirements were initially developed for the 2018 renewal and are continued to conform to antibacksliding regulations.

While the limits established in this permit were not part of a formal antidegradation review, the permit writer established the limitations in the permit to assure no further degradation will occur in accordance with 10 CSR 20-7.031(3); i.e. the facility will not discharge in excess of the proposed discharge as provided in the application for permit renewal. The permit writer used site specific data for the discharging system and determined the facility operates with near zero discharge of pollutants as the technology on-site is completely effective at removing contaminants in operated and maintained appropriately. The effluent limitations for percent removal derived in this permit are more restrictive than water quality limitations and appropriate to the methods used for controlling the pollutant discharge. Special condition #1 includes the requirements as found at 40 CFR 122.41(e).

These procedures are used frequently in other permits to determine site specific technological limits and benchmarks. See Section 5.2.3.5 (page 5-47) of the EPA permit writer's manual. These statistical procedures take into account the magnitude, frequency, and duration of discharges where site specific data is used to determine limitations. Percent removal effluent limitations were derived for this permit based on the effectiveness of the treatment system. Special condition #1 implements technology-based limitations and calculations the permittee must perform at least monthly to assure "zero" discharge of the contaminants of concern. This limitation describes a technology effluent limitation; the TBEL is less than the WQBEL. With proper system maintenance, the facility is expected to discharge very near zero contaminants.

As analytical procedures cannot detect "0", there is always some uncertainty in the laboratory results therefore a 2% allowance was made. This allowance will also provide the permittee with some time to complete operational checks and maintenance if sampling results do show a hit of the contaminants.

The permit writer has evaluated the concentration of pollutants in the groundwater at the site, and, at the highest levels occurring, as long as the facility removes at least 98% of the TCE and PCE at the site, the discharge will be significantly less than Missouri's established water quality standards for these pollutants.

PERMIT SHIELD

The permit shield provision of the Clean Water Act (Section 402(k)) and Missouri Clean Water Law (644.051.16 RSMo) provides that when a permit holder is in compliance with its NPDES permit or MSOP, it is effectively in compliance with certain sections of the Clean Water Act, and equivalent sections of the Missouri Clean Water Law. In general, the permit shield is a legal defense against certain enforcement actions, but is only available when the facility is in compliance with its permit and satisfies other specific conditions, including having completely disclosed all discharges and all facility processes and activities to the Department at time of application. It is the facility's responsibility to ensure that all potential pollutants, waste streams, discharges, and activities, including wastewater land application, storage, and treatment areas, are all fully disclosed to the Department at the time of application or during the draft permit review process. Previous permit applications are not necessarily evaluated or considered during permit renewal actions. All relevant disclosures must be provided with each permit application, including renewal applications, even when the same information was previously disclosed in a past permit application. Subsequent requests for authorization to discharge additional pollutants, expanded or newly disclosed flows, or for authorization for previously unpermitted and undisclosed activities or discharges, will likely require an official permit modification, including another public participation process.

PRETREATMENT

This permit does not regulate pretreatment requirements for facilities discharging to an accepting permitted wastewater treatment facility. If applicable, the receiving entity (the publicly owned treatment works - POTW) is to ensure compliance with any effluent limitation guidelines for pretreatment listed in 40 CFR Subchapter N per 10 CSR 20-6.100. Pretreatment regulations per 644.016 RSMo are limitations on the introduction of pollutants or water contaminants into publicly owned treatment works or facilities.

✓ Not applicable, this facility does not discharge industrial wastewater to a POTW.

REASONABLE POTENTIAL (RP)

Regulations per 10 CSR 20-7.015(9)(A)2 and 40 CFR 122.44(d)(1)(i) require effluent limitations for all pollutants which are (or may be) discharged at a level causing or have the reasonable potential to cause (or contribute to) an in-stream excursion above narrative or numeric water quality standards. Per 10 CSR 20-7.031(4), general criteria shall be applicable to all waters of the state at all times; however, acute toxicity criteria may be exceeded by permit allowance in zones of initial dilution, and chronic toxicity criteria may be exceeded by permit allowance in mixing zones. A reasonable potential analysis (RPA) is a numeric RP decision calculated using effluent data provided by the facility for parameters that have a numeric Water Quality Standard (WQS). If any given pollutant has the reasonable potential to cause or contribute to an in-stream excursion above the WQS or derived WQBEL, the permit must contain a WQBEL for the pollutant per 40 CFR Part 122.44(d)(1)(iii) and the most stringent limits per 10 CSR 20-7.031(9)(A). The RPA is performed using the *Technical Support Document for Water Quality Based Toxics Control (TSD)* methods (EPA/505/2-90-001) for continuous discharges. See additional considerations under Part II WATERBODY MIXING CONSIDERATIONS and Part III WASTELOAD ALLOCATIONS. Wasteload allocations are determined utilizing the same equations and statistical methodology. Absent sufficient effluent data, WQBELs are derived without consideration of effluent variability and is assumed to be present unless found to be absent to meet the requirements of antidegradation review found in 10 CSR 20-7.031(3) and reporting of toxic substances pursuant to 40 CFR 122.44(f). The Department's permit writer's manual (<https://dnr.mo.gov/water/business-industry-other-entities/technical-assistance-guidance/wastewater-permit-writers-manual>), the EPA's permit writer's manual (<https://www.epa.gov/npdes/npdes-permit-writers-manual>), program policies, and best professional judgment guide each decision. Each parameter in each outfall is carefully considered; and all applicable information regarding: technology based effluent limitations, effluent limitation guidelines, water quality standards, inspection reports, stream water quality information, stream flows, uses assigned to each waterbody, and all applicable site specific information and data gathered by the facility through discharge monitoring reports and renewal (or new) application sampling.

Reasonable potential determinations (RPD) are based on physical conditions of the site as provided in Sections 3.1.2, 3.1.3, and 3.2 of the TSD using best professional judgement. An RPD consists of evaluating visual observations for compliance with narrative criteria, non-numeric information, or small amounts of numerical data (such as 1 data point supplied in the application). Narrative criteria with RP typically translate to a numeric WQBEL, so a parameter's establishment being based on narrative criteria does not necessarily make the decision an RPD vs RP—how the data is collected does, however. For example, a facility with orange discharge can have RP for narrative criteria like color, but a numeric iron limit is established to account for the violation of narrative criteria based on effluent data submitted by the facility. When insufficient data is received to make a determination on RP based on numeric effluent data, the RPD decisions are based on best professional judgment considering the type of effluent discharged, the current operational controls in place, and historical overall management of the site. In the case of iron causing excursions of narrative criteria for color, if a facility has not had iron monitoring in a previous permit, adding iron monitoring would be an RPD, since numeric data isn't being used in the determination, but observable, site-specific conditions are.

When the facility is performing surficial or subsurface land application, the volume of water, frequency of application, type of vegetation, soil type, land slopes, and general overall operating conditions are considered. 10 CSR 20-8 are regulations for the minimum operating conditions for land application; these regulations cannot be excused even if there is no RP. RP is reserved for discharging outfalls given that these outfalls are the only ones which water quality standards apply to, but the process is similar as the site conditions are compared to regulations, soil sampling, pollutant profile, and other site specific conditions. In the case of non-discharging outfalls, an RPD is instead used to determine monitoring requirements.

The TSD RPA method cannot be performed on stormwater as the flow is intermittent and highly variable. A stormwater RPD consists of reviewing application data and discharge monitoring data and comparing those data to narrative or numeric water quality criteria. For stormwater outfalls, considerations are required per 10 CSR 20-6.200(6)(B)2: A. application and other information supplied by the facility; B. effluent guidelines; C. best professional judgment; D. water quality; and E. BMPs.

RPDs are also performed for WET testing in wastewater. While no WET regulations specific to industrial wastewater exist, 40 CFR 122.21(j)(5) implies the following can be considered: 1) the variability of the pollutants; 2) the ratio of wastewater flow to receiving stream flow; and 3) current technology employed to remove toxic pollutants. Generally, sufficient data does not exist to mathematically determine RPA for WET, but instead compares the data for other toxic parameters in the wastewater with the necessity to implement WET testing with either monitoring or limits. When toxic parameters exhibit RP, WET testing is generally included in the permit as an RPD. However, if all toxic parameters are controlled via limitations or have exhibited no toxicity in the past, then WET testing may be waived. Only in instances where the wastewater is well characterized can WET testing be waived.

WET testing is typically not implemented for stormwater. Stormwater discharges do not adhere to the same principles of wastewater RPAs because stormwater discharges are not continuous, and at the time of precipitation discharge the receiving stream is also no longer at base (0) flow, meaning that using RP to develop WET testing requirements for stormwater is unrepresentative. The Department works with the Missouri Department of Conservation and has understanding of streams already exhibiting toxicity, even without the influence of industrial wastewater or stormwater. Facilities discharging to streams with historical toxicity are required to use laboratory water for dilution, instead of water from the receiving stream when performing WET tests.

TSD methods encountered may be § 3.3.2, § 5.7.3 for metals, and § 5.4.1 for chloride. Part IV EFFLUENT LIMIT DETERMINATIONS provides specific decisions related to this permit. In general, removal of a QBEL if there is no RP is not considered backsliding, see ANTIBACKSLIDING for additional information.

- ✓ No statistical RPAs were performed for this permit. This permit compared the WQS with effluent data on a 1:1 basis; any value above the WQS is assumed to have RP. Because of the discharge in December 2021 showed elevated levels of PCE and TCE, QBELs were developed for these contaminants of concern.
- ✓ The previous permit indicated “There Shall Be No Discharge of Floating Solids or Visible Foam in Other Than Trace Amounts” under each table. The statement was not evaluated against actual site conditions therefore, this general criteria was re-assessed. It was determined that this facility does not discharge solids or foam in amounts which would indicate reasonable potential, therefore the statement was removed. Removal of these narrative criteria is not subject to antibacksliding provisions as there is no RP. The facility discharges pumped and treated groundwater; this system does not discharge TSS or SS.

REGIONAL OFFICES (ROS)

Regional Offices will provide a compliance assistance visit at a facility’s request; a regional map with links to phone numbers can be found here: <https://dnr.mo.gov/about-us/division-environmental-quality/regional-office>. Or use <https://dnr.mo.gov/compliance-assistance-enforcement> to request assistance from the Region online.

RENEWAL REQUIREMENTS

The renewal special condition permit requirement is designed to guide the facility to prepare and include all relevant and applicable information in accordance with 10 CSR 20-6.010(7)(A)-(C), and if applicable, federal regulations. The special condition may not include all requirements and requests for additional information may be made at the time of permit renewal under 644.051.13(5) RSMo and 40 CFR 122.21(h). Prior to submittal, the facility must review the entire submittal to confirm all required information and data is provided; it is the facility’s responsibility to discern if additional information is required. Failure to fully disclose applicable information with the application or application addendums may result in a permit revocation per 10 CSR 20-6.010(8)(A) and may result in the forfeiture of permit shield protection authorized in 644.051.16 RSMo. Forms are located at:

<https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/wastewater>

- ✓ This facility shall submit an appropriate and complete application to the Department no less than 180 days prior to the expiration date listed on page 1 of the permit.
- ✓ The facility may email cleanwaterpermits@dnr.mo.gov to submit the application to the Program. A paper copy is not necessary if submitted via email. For larger applications, a drop-box type service may also be used.
- ✓ Application materials shall include complete Form A, and Form C. If the form name has changed, then the facility should ensure they are submitting the correct forms as required by regulation.

SAMPLING FREQUENCY JUSTIFICATION

Sampling and reporting frequency was generally retained from previous permit. 40 CFR 122.45(d)(1) indicates all continuous discharges, such as wastewater discharges, shall be permitted with daily maximum and monthly average limits. Minimum sampling frequency for all parameters is annually per 40 CFR 122.44(i)(2).

A reduction in monitoring frequency is not considered backsliding. A numeric or narrative limit established in the permit is applicable every hour of every day, not only during the day the monitoring occurs, therefore, a reduction in monitoring frequency has no bearing on the numeric limits applied in the permit. Both § 402(o)(1) and the safety clause in § 402(o)(3) prohibit renewed permits from containing effluent limitations that are less stringent. The Department does not read 402(o) to apply to any other non-limiting type of permit conditions.

SAMPLING TYPE JUSTIFICATION

Sampling type was continued from the previous permit. The sampling types are representative of the discharges, and are protective of water quality. Discharges with altering effluent will consider implementing composite sampling; discharges with uniform effluent can have grab samples. Grab samples are usually appropriate for stormwater. Parameters which must have grab sampling are: pH, ammonia, *E. coli*, total residual chlorine, free available chlorine, hexavalent chromium, dissolved oxygen, total phosphorus, volatile organic compounds, and others. For further information on sampling and testing methods see 10 CSR 20-7.015(9)(D)2.

SCHEDULE OF COMPLIANCE (SOC)

A schedule of compliance is time allowed to meet future more stringent limitations. The SOC can also be remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, effluent limits, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and the terms and conditions of an operating permit. SOC's are allowed under 40 CFR 122.47 and 10 CSR 20-7.031(11) providing certain conditions are met.

An SOC is not allowed:

- For effluent limitations based on technology-based standards established in accordance with federal requirements, if the deadline for compliance established in federal regulations has passed in accordance with 40 CFR 125.3.
- For a newly constructed facility in most cases per 644.029 RSMo. Newly constructed facilities must meet all applicable effluent limitations (technology and water quality) when discharge begins. New facilities are required to install the appropriate control technologies as specified in a permit or antidegradation review. A SOC is allowed for a new water quality based effluent limit not included in a previously public noticed permit or antidegradation review, which may occur if a regulation changes during construction.
- To develop a TMDL, UAA, or other study associated with development of a site specific criterion. A facility is not prohibited from conducting these activities, but a SOC may not be specifically granted for conducting these activities.

In order to provide guidance in developing SOC's, and to attain a greater level of consistency, the Department issued a policy on development of SOC's on October 25, 2012. The policy provides guidance for standard time frames for schedules for common activities, and guidance on factors to modify the length of the schedule.

✓ Not applicable; this permit does not contain a SOC.

SPILLS, OVERFLOWS, AND OTHER UNAUTHORIZED DISCHARGE REPORTING

Per 260.505 RSMo, any emergency involving a hazardous substance must be reported to the Department's 24 hour Environmental Emergency Response hotline at (573) 634-2436 at the earliest possible moment after discovery. The Department may require the submittal of a written report detailing measures taken to clean up a spill. These reporting requirements apply whether or not the spill results in chemicals or materials leaving the permitted property or reaching waters of the state. This requirement is in addition to the noncompliance reporting requirement found in Standard Conditions Part I.

<https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl=>

Any other spills, overflows, or unauthorized discharges reaching waters of the state must be reported to the regional office during normal business hours, or after normal business hours, to the Department's 24 hour Environmental Emergency Response spill line at 573-634-2436.

Certain industrial facilities are subject to the self-implementing regulations for Oil Pollution Prevention in 40 CFR 112, and are required to initiate and follow Spill Prevention, Control, and Countermeasure (SPCC) Plans. This permit, as issued, is not intended to be a replacement for any SPCC plan, nor can this permit's conditions be automatically relaxed based on the SPCC plan if the permit is more stringent than the plan.

SLUDGE – INDUSTRIAL

Industrial sludge is solid, semi-solid, or liquid residue generated during the treatment of industrial process or non-process wastewater in a treatment works; including but not limited to, scum or solids removed in primary, secondary, or advanced wastewater treatment process; scum and solids filtered from water supplies and backwashed; and any material derived from industrial sludge. Industrial sludge could also be derived from holding structure dredging or other similar maintenance activities. Certain oil sludge, like those from oil water separators, are subject to self-implementing federal regulations under 40 CFR 279 for used oils.

✓ Applicable; sludge and filters are changed and removed as needed for appropriate treatment system operation. This permit does not allow disposal or discharge of filter contaminants.

STANDARD CONDITIONS

The standard conditions Part I attached to this permit incorporate all sections of 10 CSR 20-6.010(8) and 40 CFR 122.41(a) through (n) by reference as required by law. These conditions, in addition to the conditions enumerated within the standard conditions must be reviewed by the facility to ascertain compliance with this permit, state regulations, state statutes, federal regulations, and the Clean Water Act.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

A SWPPP must be prepared by the facility if the SIC code or facility description type is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2). A SWPPP may be required of other facilities where stormwater has been identified as necessitating better management. The purpose of a SWPPP is to comply with all applicable stormwater regulations by creating an adaptive management plan to control and mitigate stream pollution from stormwater runoff.

✓ Not applicable; this facility is not applicable to stormwater requirements.

SUFFICIENTLY SENSITIVE ANALYTICAL METHODS

Please review Standard Conditions Part 1, §A, No. 4. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 or 40 CFR 136 unless alternates are approved by the Department and incorporated within this permit. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure the selected methods are able to quantify the presence of pollutants in any given discharge at concentrations low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. The reporting limits established by the chosen laboratory must be below the lowest effluent limits established for the specified parameter (including any parameter's future limit after an SOC) in the permit unless the permit provides for an ML or if the facility provides a written rationale to the Department. It is the facility's responsibility to ensure the laboratory has adequate equipment and controls in place to quantify the pollutant. Inflated reporting limits will not be accepted by the Department if the reporting limit is above the parameter value stipulated in the permit. A method is "sufficiently sensitive" when; 1) the method quantifies the pollutant below the level of the applicable water quality criterion or; 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility's discharge is high enough the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015 and or 40 CFR 136. These methods are also required for parameters listed as monitoring only, as the data collected may be used to determine if numeric limitations need to be established. A facility is responsible for working with their contractors to ensure the analysis performed is sufficiently sensitive.

UNDERGROUND INJECTION CONTROL (UIC)

Class V wells are sub-surface dispersal or injection of any industrial wastewater; and in certain circumstances, may also be considered a Class V well if it is domestic wastewater. They can also be shallow injection wells like heat pumps and groundwater remediation wells. UIC systems may be described as having "septic tanks" or "lateral lines" in addition to the traditional well type of injection.

✓ Not applicable; the facility has not submitted materials indicating the facility is or will be performing UIC at this site.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS

Per 10 CSR 20-2.010; definitions, the WLA is the maximum amount of pollutant each discharger is allowed to discharge into the receiving stream without endangering water quality. Only streams with available load allocations can be granted discharge allowances. Outfalls afforded mixing allocations provide higher limits because the receiving stream is able to accept more pollutant loading without causing adverse impacts to the environment or aquatic life.

✓ Wasteload allocations were developed based on the protection of human health standard and the bioaccumulative pollutant basis; therefore the WLA assigned is the WQS.

WHOLE EFFLUENT TOXICITY (WET) TEST

A WET test is a quantifiable method to conclusively determine if discharges from the facility cause toxicity to aquatic life by itself, in combination with, or through synergistic responses, typically when mixed with receiving stream water.

✓ Not applicable; WET testing was not implemented in this permit because the pollutants limited in this permit are not identified as having aquatic life toxicity.

PART IV. EFFLUENT LIMIT DETERMINATIONS

OUTFALL #001 – GROUNDWATER REMEDIATION

EFFLUENT LIMITATIONS TABLE:

| PARAMETERS | UNIT | DAILY MAX | MONTHLY AVG | PREVIOUS PERMIT LIMITS | MINIMUM SAMPLING FREQUENCY | MINIMUM REPORTING FREQUENCY | SAMPLE TYPE |
|------------------------------|------|--------------|----------------|------------------------------|----------------------------------|-----------------------------------|-------------|
| LIMIT SET M: MONTHLY | | | | | | | |
| FLOW | MGD | * | * | SAME | ONCE/WEEK | ONCE/MONTH | 24 Hr. Tot |
| pH † | SU | 6.5 TO 9.0 | * | MONITORING | ONCE/MONTH | ONCE/MONTH | GRAB |
| TETRACHLOROETHYLENE (PCE) | µg/L | * | 80 | MONITORING | ONCE/MONTH | ONCE/MONTH | GRAB |
| TETRACHLOROETHYLENE (PCE) | % | 2 | 2 | SAME | ONCE/MONTH | ONCE/MONTH | CALCULATED |
| TRICHLOROETHYLENE (TCE) | µg/L | * | 8.85 | MONITORING | ONCE/MONTH | ONCE/MONTH | GRAB |
| TRICHLOROETHYLENE (TCE) | % | 2 | 2 | SAME | ONCE/MONTH | ONCE/MONTH | CALCULATED |
| LIMIT SET I: INFLUENT | | | | | | | |
| TETRACHLOROETHYLENE (PCE) | µg/L | * | * | SAME | ONCE/MONTH | ONCE/MONTH | GRAB |
| TRICHLOROETHYLENE (TCE) | µg/L | * | * | SAME | ONCE/MONTH | ONCE/MONTH | GRAB |

- * monitoring and reporting requirement only
- † report the minimum and maximum pH values; pH is not to be averaged
- % see permit

DERIVATION AND DISCUSSION OF LIMITS:

Flow

Per 40 CFR Part 122.44(i)(1)(ii) the volume of effluent discharged from each outfall is needed to ensure compliance with permitted effluent limitations. If the facility is unable to obtain effluent flow, then it is the responsibility of the facility to inform the Department, which may require the submittal of an operating permit modification. The facility will report the total maximum daily flow and average in millions of gallons per day (MGD), weekly monitoring continued from previous permit. The facility reported from 0.034 to 0.29 MGD in the last permit term.

CONTAMINANTS OF CONCERN (COCs):

pH

6.5 to 9.0 SU – instantaneous grab sample. Water quality limits per 10 CSR 20-7.031(5)(E) are appropriate as WQBEL is more protective than the TBEL, and there is RP. This parameter must be measured within the 15 minute holding time. pH is a fundamental water quality indicator. Additionally, metals leachability and ammonia availability in wastewater is dependent on pH. Limitations in this permit will protect against aquatic organism toxicity, downstream water quality issues, human health hazard contact, and negative physical changes in accordance with the general criteria at 10 CSR 20-7.031(4) and the Clean Water Act's (CWA) goal of 100% fishable and swimmable rivers and streams. The facility reported from 6.88 to 8.51 SU; which is in normal range, however, given the remediation system has the potential to change the pH, limits are required to assure the system remains in range. The last permit was monitoring only.

Tetrachloroethylene/Perchloroethylene (PCE)

The facility reported from non-detect to 105 µg/L. The water quality standards for protection of human health is 80 µg/L; this is positive RP per 40 CFR 122.44(d)(1)(i) therefore a WQBEL is required. Because this is a human health protection standard, the standard considers consumption of aquatic organisms, and is the average for 30 days therefore will be implemented as the monthly average. The facility should be able to meet this standard all of the time if the treatment system is performing optimally; the next highest value reported was 8.5 µg/L. During the same month, the treatment system only removed 42.3% of PCE. The Department has the authority to regulate the same parameter in multiple ways if additional controls are warranted per 40 CFR 122.45(f)(2).

Influent data shows the parameter in the groundwater at 25.8 to 1240 µg/L. The air stripper and carbon filtration system removes approximately 100% of the contaminant when the treatment system is maintained well. Technology based controls of this parameter are continued from the previous permit to conform to antibacksliding regulations. Special condition #1 was continued from the previous permit to assure continued “zero” discharge of this parameter; because of detection limits, and other considerations, 2% allowable discharge is the continued limit. See Part III: PERFORMANCE-BASED LIMITATIONS for additional information.

Trichloroethylene (TCE)

The facility reported from non-detect to 52.4 µg/L of the discharge for this parameter; this is positive RP per 40 CFR 122.44(d)(1)(i) therefore a WQBEL is required. The water quality standards for protection of human health is 8.85 µg/L. Because this is a human health protection standard, the standard considers consumption of aquatic organisms, and is the average for 30 days therefore will be implemented as the monthly average. The facility should be able to meet this standard all of the time if the treatment system is performing optimally; the next highest value reported was 5 µg/L. During the same month, the treatment system only removed 44.4% of TCE. The Department has the authority to regulate the same parameter in multiple ways if additional controls are warranted per 40 CFR 122.45(f)(2).

Influent data shows the parameter in the groundwater at 20.2 to 413 µg/L. The air stripper and carbon filtration system removes approximately 100% of the contaminant when the treatment system is maintained well. Technology based controls of this parameter are continued from the previous permit to conform to antibacksliding regulations. Special condition #1 was continued from the previous permit to assure continued “zero” discharge of this parameter; because of detection limits, and other considerations, 2% allowable discharge is the continued limit. See Part III: PERFORMANCE-BASED LIMITATIONS for additional information.

PART V. ADMINISTRATIVE REQUIREMENTS

On the basis of 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(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PERMIT SYNCHRONIZATION

Permits are normally issued on a five-year term, but to achieve watershed synchronization some permits will need to be issued for less than the full five years as allowed by regulation. The intent is all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. This will allow the Department to explore a watershed based permitting effort at some point in the future.

✓ Industrial permits are not being synchronized.

PUBLIC NOTICE

The Department shall give public notice a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in or with concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and facility must be notified of the denial in writing. <https://dnr.mo.gov/water/what-were-doing/public-notice> The Department must issue public notice of a draft operating permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wishing to submit comments regarding this proposed operating permit, please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments. All comments must be in written form.

✓ The Public Notice period for this operating permit was from August 18 to September 18, 2023. There were no comments.

DATE OF FACT SHEET: SEPTEMBER 19, 2023

COMPLETED BY:

PAM HACKLER, ENVIRONMENTAL ANALYST SCIENTIST
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
OPERATING PERMITS SECTION - INDUSTRIAL UNIT
(573) 526-3386
pam.hackler@dnr.mo.gov



STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

These Standard Conditions incorporate permit conditions as required by 40 CFR 122.41 or other applicable state statutes or regulations. These minimum conditions apply unless superseded by requirements specified in the permit.

Part I – General Conditions

Section A – Sampling, Monitoring, and Recording

1. **Sampling Requirements.**
 - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
 - b. All samples shall be taken at the outfall(s) or Missouri Department of Natural Resources (Department) approved sampling location(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.
2. **Monitoring Requirements.**
 - a. Records of monitoring information shall include:
 - i. The date, exact place, and time of sampling or measurements;
 - ii. The individual(s) who performed the sampling or measurements;
 - iii. The date(s) analyses were performed;
 - iv. The individual(s) who performed the analyses;
 - v. The analytical techniques or methods used; and
 - vi. The results of such analyses.
 - b. If the permittee monitors any pollutant more frequently than required by the permit at the location specified in the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reported to the Department with the discharge monitoring report data (DMR) submitted to the Department pursuant to Section B, paragraph 7.
3. **Sample and Monitoring Calculations.** Calculations for all sample and monitoring results which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.
4. **Test Procedures.** The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is “sufficiently sensitive” when; 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility’s discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.
5. **Record Retention.** Except for records of monitoring information required by the permit related to the permittee’s sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

6. **Illegal Activities.**
 - a. The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than two (2) years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four (4) years, or both.
 - b. The Missouri Clean Water Law provides that any person or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than six (6) months, or by both. Second and successive convictions for violation under this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

Section B – Reporting Requirements

1. **Planned Changes.**
 - a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
 - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42;
 - iii. The alteration or addition results in a significant change in the permittee’s sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
 - iv. Any facility expansions, production increases, or process modifications which will result in a new or substantially different discharge or sludge characteristics must be reported to the Department 60 days before the facility or process modification begins. Notification may be accomplished by application for a new permit. If the discharge does not violate effluent limitations specified in the permit, the facility is to submit a notice to the Department of the changed discharge at least 30 days before such changes. The Department may require a construction permit and/or permit modification as a result of the proposed changes at the facility.
2. **Non-compliance Reporting.**
 - a. The permittee shall report any noncompliance which may endanger health or the environment. Relevant information shall be provided orally or via the current electronic method approved by the Department, within 24 hours from the time the permittee becomes aware of the circumstances, and shall be reported to the appropriate Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. A written submission shall also be provided within five (5) business days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.



STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

- b. The following shall be included as information which must be reported within 24 hours under this paragraph.
 - i. Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - ii. Any upset which exceeds any effluent limitation in the permit.
 - iii. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit required to be reported within 24 hours.
 - c. The Department may waive the written report on a case-by-case basis for reports under paragraph 2. b. of this section if the oral report has been received within 24 hours.
3. **Anticipated Noncompliance.** The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The notice shall be submitted to the Department 60 days prior to such changes or activity.
 4. **Compliance Schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date. The report shall provide an explanation for the instance of noncompliance and a proposed schedule or anticipated date, for achieving compliance with the compliance schedule requirement.
 5. **Other Noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs 2, 3, and 6 of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 2. a. of this section.
 6. **Other Information.** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.
 7. **Discharge Monitoring Reports.**
 - a. Monitoring results shall be reported at the intervals specified in the permit.
 - b. Monitoring results must be reported to the Department via the current method approved by the Department, unless the permittee has been granted a waiver from using the method. If the permittee has been granted a waiver, the permittee must use forms provided by the Department.
 - c. Monitoring results shall be reported to the Department no later than the 28th day of the month following the end of the reporting period.
- b. Notice.
 - i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
 - ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).
 - c. Prohibition of bypass.
 - i. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
 1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 3. The permittee submitted notices as required under paragraph 2. b. of this section.
 - ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.
3. **Upset Requirements.**
 - a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph 3. b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
 - b. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated; and
 - iii. The permittee submitted notice of the upset as required in Section B – Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
 - iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
 - c. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

Section C – Bypass/Upset Requirements

1. **Definitions.**
 - a. *Bypass*: the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending.
 - b. *Severe Property Damage*: substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
 - c. *Upset*: an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
2. **Bypass Requirements.**
 - a. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2. b. and 2. c. of this section.

Section D – Administrative Requirements

1. **Duty to Comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Missouri Clean Water Law and Federal Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
 - a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
 - b. The Federal Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The Federal Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement



STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.

- c. Any person may be assessed an administrative penalty by the EPA Director for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000.
 - d. It is unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, other order, or determination made by the commission or the director, or any filing requirement pursuant to sections 644.006 to 644.141 of the Missouri Clean Water Law or any other provision which this state is required to enforce pursuant to any federal water pollution control act, is being, was, or is in imminent danger of being violated, the commission or director may cause to have instituted a civil action in any court of competent jurisdiction for the injunctive relief to prevent any such violation or further violation or for the assessment of a penalty not to exceed \$10,000 per day for each day, or part thereof, the violation occurred and continues to occur, or both, as the court deems proper. Any person who willfully or negligently commits any violation in this paragraph shall, upon conviction, be punished by a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both. Second and successive convictions for violation of the same provision of this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.
2. **Duty to Reapply.**
- a. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.
 - b. A permittee with a currently effective site-specific permit shall submit an application for renewal at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. (The Department shall not grant permission

for applications to be submitted later than the expiration date of the existing permit.)

- c. A permittee with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
3. **Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
4. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
5. **Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
6. **Permit Actions.**
- a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
 - i. Violations of any terms or conditions of this permit or the law;
 - ii. Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
 - iii. A change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
 - iv. Any reason set forth in the Law or Regulations.
 - b. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
7. **Permit Transfer.**
- a. Subject to 10 CSR 20-6.010, an operating permit may be transferred upon submission to the Department of an application to transfer signed by the existing owner and the new owner, unless prohibited by the terms of the permit. Until such time the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
 - b. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Missouri Clean Water Law or the Federal Clean Water Act.
 - c. The Department, within 30 days of receipt of the application, shall notify the new permittee of its intent to revoke or reissue or transfer the permit.
8. **Toxic Pollutants.** The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Federal Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
9. **Property Rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.



STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

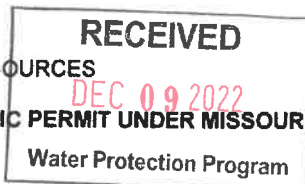
10. **Duty to Provide Information.** The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.
11. **Inspection and Entry.** The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department), upon presentation of credentials and other documents as may be required by law, to:
 - a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Federal Clean Water Act or Missouri Clean Water Law, any substances or parameters at any location.
12. **Closure of Treatment Facilities.**
 - a. Persons who cease operation or plan to cease operation of waste, wastewater, and sludge handling and treatment facilities shall close the facilities in accordance with a closure plan approved by the Department.
 - b. Operating Permits under 10 CSR 20-6.010 or under 10 CSR 20-6.015 are required until all waste, wastewater, and sludges have been disposed of in accordance with the closure plan approved by the Department and any disturbed areas have been properly stabilized. Disturbed areas will be considered stabilized when perennial vegetation, pavement, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover, if used, shall be at least 70% plant density over 100% of the disturbed area.
13. **Signatory Requirement.**
 - a. All permit applications, reports required by the permit, or information requested by the Department shall be signed and certified. (See 40 CFR 122.22 and 10 CSR 20-6.010)
 - b. The Federal Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.
 - c. The Missouri Clean Water Law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, or by both.
14. **Severability.** The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.

ATTACHMENT A

Form A, Application for Non Domestic Permit



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
FORM A – APPLICATION FOR NONDOMESTIC PERMIT UNDER MISSOURI
CLEAN WATER LAW



FOR AGENCY USE ONLY

CHECK NUMBER
DATE RECEIVED
JET PAY CONFIRMATION NUMBER

PLEASE READ ALL THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM.
SUBMITTAL OF AN INCOMPLETE APPLICATION MAY RESULT IN THE APPLICATION BEING RETURNED.

IF YOUR FACILITY IS ELIGIBLE FOR A NO EXPOSURE EXEMPTION:

Fill out the No Exposure Certification Form (Mo 780-2828): <https://dnr.mo.gov/forms/780-2828-f.pdf>

1. REASON FOR APPLICATION:

- ☒ a. This facility is now in operation under Missouri State Operating Permit (permit) MO – 0123021, is submitting an application for renewal, and there is no proposed increase in design wastewater flow. Annual fees will be paid when invoiced and there is no additional permit fee required for renewal.
- ☐ b. This facility is now in operation under permit MO – _____, is submitting an application for renewal, and there is a proposed increase in design wastewater flow. Antidegradation Review may be required. Annual fees will be paid when invoiced and there is no additional permit fee required for renewal.
- ☐ c. This is a facility submitting an application for a new permit (for a new facility). Antidegradation Review may be required. New permit fee is required.
- ☐ d. This facility is now in operation under Missouri State Operating Permit (permit) MO – _____ and is requesting a modification to the permit. Antidegradation Review may be required. Modification fee is required.

2. FACILITY

| | | | |
|---|---------------------|---------------------------------|-------------------|
| NAME Valley Park TCE Site-Wainwright Operable Unit | | TELEPHONE NUMBER WITH AREA CODE | |
| ADDRESS (PHYSICAL) 224 Benton Street | CITY Valley Park | STATE MO | ZIP CODE 63088 |

3. OWNER

| | | | |
|--|-----------------|---|-------------------|
| NAME Environmental Operations, Inc. | | TELEPHONE NUMBER WITH AREA CODE 314-241-0900 | |
| EMAIL ADDRESS eric@environmentalops.com | | | |
| ADDRESS (MAILING) 7733 Forsyth Blvd. | CITY Clayton | STATE MO | ZIP CODE 63050 |

4. CONTINUING AUTHORITY

| | | | |
|--|-----------------|---|-------------------|
| NAME Environmental Operations, Inc. | | TELEPHONE NUMBER WITH AREA CODE 314-480-4646 | |
| EMAIL ADDRESS eryn@environmentalops.com | | | |
| ADDRESS (MAILING) 7733 Forsyth Blvd. | CITY Clayton | STATE MO | ZIP CODE 63050 |

5. OPERATOR CERTIFICATION

| | | | |
|---|---------------------------|---|-------------------|
| NAME Environmental Operations, Inc. | CERTIFICATE NUMBER N/A | TELEPHONE NUMBER WITH AREA CODE 314-241-0900 | |
| ADDRESS (MAILING) 7733 Forsyth Blvd. | CITY Clayton | STATE MO | ZIP CODE 63050 |

6. FACILITY CONTACT

| | | | |
|---|---------------------------------|---|--|
| NAME Lawrence Rosen | TITLE Senior Project Manager | TELEPHONE NUMBER WITH AREA CODE 314-480-4694 | |
| E-MAIL ADDRESS larryr@environmentalops.com | | | |

7. DOWNSTREAM LANDOWNER(S) Attach additional sheets as necessary.

| | | | |
|-------------|------|-------|----------|
| NAME N/A | | | |
| ADDRESS | CITY | STATE | ZIP CODE |

8. ADDITIONAL FACILITY INFORMATION**8.1 Legal Description of Outfalls. (Attach additional sheets if necessary.)**

For Universal Transverse Mercator (UTM), use Zone 15 North referenced to North American Datum 1983 (NAD83)

001 NW ¼ SW ¼ Sec 17 T 44N R 5E STL County

UTM Coordinates Easting (X): _____ Northing (Y): _____

002 _____ ¼ _____ ¼ Sec _____ T _____ R _____ County

UTM Coordinates Easting (X): _____ Northing (Y): _____

003 _____ ¼ _____ ¼ Sec _____ T _____ R _____ County

UTM Coordinates Easting (X): _____ Northing (Y): _____

004 _____ ¼ _____ ¼ Sec _____ T _____ R _____ County

UTM Coordinates Easting (X): _____ Northing (Y): _____

Include all subsurface discharges and underground injection systems for permit consideration.

8.2 Primary Standard Industrial Classification (SIC) and Facility North American Industrial Classification System (NAICS) Codes.

Primary SIC 3499 and NAICS _____ SIC _____ and NAICS _____
SIC _____ and NAICS _____ SIC _____ and NAICS _____

9. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION

- A. Is this permit for a manufacturing, commercial, mining, solid/hazardous waste, or silviculture facility? YES ☐ NO ☒
If yes, complete Form C.
- B. Is the facility considered a "Primary Industry" under EPA guidelines (40 CFR Part 122, Appendix A) : YES ☐ NO ☒
If yes, complete Forms C and D.
- C. Is wastewater land applied? YES ☐ NO ☒
If yes, complete Form I.
- D. Are sludge, biosolids, ash, or residuals generated, treated, stored, or land applied? YES ☐ NO ☒
If yes, complete Form R.
- E. Have you received or applied for any permit or construction approval under the CWA or any other environmental regulatory authority? YES ☐ NO ☒
If yes, please include a list of all permits or approvals for this facility:
Environmental Permits for this facility: _____
- F. Do you use cooling water in your operations at this facility? YES ☐ NO ☒
If yes, please indicate the source of the water: _____
- G. Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale.

10. ELECTRONIC DISCHARGE MONITORING REPORT (eDMR) SUBMISSION SYSTEM

Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent limits and monitoring shall be submitted by the permittee via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data. **One of the following must be checked in order for this application to be considered complete.** Please visit <https://dnr.mo.gov/env/wpp/edmr.htm> for information on the Department's eDMR system and how to register.

☐ - I will register an account online to participate in the Department's eDMR system through the Missouri Gateway for Environmental Management (MoGEM) before any reporting is due, in compliance with the Electronic Reporting Rule.

☒ - I have already registered an account online to participate in the Department's eDMR system through MoGEM.

☐ - I have submitted a written request for a waiver from electronic reporting. See instructions for further information regarding waivers.

☐ - The permit I am applying for does not require the submission of discharge monitoring reports.

11. FEES

Permit fees may be paid by attaching a check, or online by credit card or eCheck through the JetPay system. Use the URL provided to access JetPay and make an online payment:

For new permits: <https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/591>

For modifications: <https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/596>

12. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (TYPE OR PRINT)

Lawrence Rosen, Senior Project Manager

TELEPHONE NUMBER WITH AREA CODE

314-480-4694

SIGNATURE

Lawrence C. Rosen

DATE SIGNED

12/5/22

MO 780-1479 (04-21)

ATTACHMENT B

Form C, Application For Discharge Permit



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH
**FORM C – APPLICATION FOR DISCHARGE PERMIT – MANUFACTURING, COMMERCIAL,
 MINING, SILVICULTURE OPERATIONS, AND STORMWATER**

GENERAL INFORMATION (PLEASE SEE INSTRUCTIONS)

1.0 NAME OF FACILITY

Valley Park TCE Site-Wainwright Operable Unit

1.1 THIS FACILITY IS OPERATING UNDER MISSOURI STATE OPERATING PERMIT (MSOP) NUMBER:

MO-0123021

1.2 IS THIS A NEW FACILITY? PROVIDE CONSTRUCTION PERMIT (CP) NUMBER IF APPLICABLE.

1.3 Describe the nature of the business, in detail. Identify the goods and services provided by the business. Include descriptions of all raw, intermediate, final products, byproducts, or waste products used in the production or manufacturing process, stored outdoors, loaded or transferred and any other pertinent information for potential sources of wastewater or stormwater discharges.

The property at 224 Benton Street, Valley Park, Missouri is occupied by West County Landscaping and a small residence. The last business operated as Rays Tree Service. The Wainwright Operable Unit is a groundwater treatment unit. Former site occupants, Wainwright Industries, Inc., operated as a metal stamping, tool, and dye shop from 1947-1979. Trichloroethylene (TCE) and Tetrachloroethylene (also known as Perchloroethylene (PCE)) were used in a solved degreasing system. Soil and groundwater became contaminated with TCE due to spills. A groundwater extraction treatment system is currently operated onsite. Groundwater is pumped through a low profile air stripper for treatment and removal of the volatile organic compounds (VOCs) through the use of carbon filters. Treated water is then discharged from the facility into a storm drain.

FLOWS, TYPE, AND FREQUENCY

2.0 Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in item B. Construct a water balance on the line drawing by showing average and maximum flows between intakes, operations, treatment units, evaporation, public sewers, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

2.1 For each outfall (1) below, provide: (2) a description of all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, stormwater runoff, and any other process or non-process wastewater, (3) the average flow and maximum flow (put max in parentheses) contributed by each operation and the sum of those operations, (4) the treatment received by the wastewater, and (5) the treatment type code. Continue on additional sheets if necessary.

| 1. OUTFALL NO. | 2. OPERATION(S) CONTRIBUTING FLOW; INCLUDE ALL PROCESSES AND SUB PROCESSES AT EACH OUTFALL | 3. AVERAGE FLOW AND (MAXIMUM FLOW), INCLUDE UNITS. | 4. TREATMENT DESCRIPTION | 5. TREATMENT CODES FROM TABLE A |
|----------------|--|--|--------------------------|---------------------------------|
| #001 | Groundwater Remediation Treatment Unit | Average-0.02MGD | Air stripper | XX |
| | | Max-0.04MGD | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Attach additional pages if necessary.

2.2 INTERMITTENT DISCHARGES

Except for stormwater runoff, leaks, or spills, are any of the discharges described in items 2.0 or 2.1 intermittent or seasonal?

☐ Yes (complete the following table)

☒ No (go to section 2.3)

| 1. OUTFALL NUMBER | 2. OPERATION(S) CONTRIBUTING FLOW | 3. FREQUENCY | | 4. FLOW | | | | C. DURATION <i>(in days)</i> |
|-------------------|-----------------------------------|--|--|------------------------------|----------------------|--|--------------------|---------------------------------|
| | | | | A. FLOW RATE <i>(in mgd)</i> | | B. TOTAL VOLUME <i>(specify with units)</i> | | |
| | | A. DAYS PER WEEK <i>(specify average)</i> | B. MONTHS PER YEAR <i>(specify average)</i> | 1. MAXIMUM DAILY | 2. LONG TERM AVERAGE | 4. LONG TERM DAILY | 3. MAXIMUM AVERAGE | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

2.3 PRODUCTION

A. Does an effluent limitation guideline (ELG) promulgated by EPA under section 304 of the Clean Water Act apply to your facility? Indicate the part and subparts applicable.

☐ Yes 40 CFR _____ Subpart(s) _____ ☒ No (go to section 2.5)

B. Are the limitations in the effluent guideline(s) expressed in terms of production (or other measure of operation)? Describe in C below.

☐ Yes (complete C.) ☒ No (go to section 2.5)

C. If you answered "yes" to B, list the quantity representing an actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline and indicate the affected outfalls.

| A. OUTFALL(S) | B. QUANTITY PER DAY | C. UNITS OF MEASURE | D. OPERATION, PRODUCT, MATERIAL, ETC. (specify) |
|---------------|---------------------|---------------------|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2.4 IMPROVEMENTS

A. Are you required by any federal, state, or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ Yes (complete the following table)

☒ No (go to 2.6)

| 1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC. | 2. AFFECTED OUTFALLS | 3. BRIEF DESCRIPTION OF PROJECT | 4. FINAL COMPLIANCE DATE | |
|---|----------------------|---------------------------------|--------------------------|--------------|
| | | | A. REQUIRED | B. PROJECTED |
| | | | | |
| | | | | |

B. Optional: provide below or attach additional sheets describing water pollution control programs or other environmental projects which may affect discharges. Indicate whether each program is underway or planned, and indicate actual or planned schedules for construction. This may include proposed bmp projects for stormwater.

2.5 SLUDGE MANAGEMENT

Describe the removal of any industrial or domestic biosolids or sludges generated at your facility. Include names and contact information for any haulers used. Note the frequency, volume, and methods (incineration, landfilling, composting, etc) used. See Form A for additional forms which may need to be completed.

DATA COLLECTION AND REPORTING REQUIREMENTS FOR APPLICANTS

3.0 EFFLUENT (AND INTAKE) CHARACTERISTICS (SEE INSTRUCTIONS)

A. & B. See instructions before continuing – complete one Table 1 for **each outfall** (and intake) – annotate the outfall (intake) number or designation in the space provided. The facility is not required to complete intake data unless required by the department or rule.

C. Use the space below to list any pollutants listed in the instructions section 3.0 C. Table B which you know or have reason to believe is discharged or may be discharged from any outfall not listed in parts 3.0 A or B on Table 1. For every pollutant listed, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

| 1. POLLUTANT | 2. SOURCE | 3. OUTFALL(S) | 4. ANALYTICAL RESULTS (INCLUDE UNITS) |
|---------------------------|----------------------|---------------|---------------------------------------|
| Trichloroethylene (TCE) | Ground Contamination | #001 | See attachment D |
| Tetrachloroethylene (PCE) | Ground Contamination | #001 | See attachment D |
| | | | |
| | | | |
| | | | |
| | | | |

3.1 Whole Effluent Toxicity Testing

A. To your knowledge, have any Whole Effluent Toxicity (WET) tests been performed on the facility discharges (or on receiving waters in relation to your discharge) within the last three years?

☐ Yes (go to 3.1 B) ☒ No (go to 3.2)

3.1 B

Disclose wet testing conditions, including test duration (chronic or acute), the organisms tested, and the testing results. Provide any results of toxicity identification evaluations (TIE) or toxicity reduction evaluations (TRE) if applicable. Please indicate the conclusions of the test(s) including any pollutants identified as causing toxicity and steps the facility is taking to remedy the toxicity.

3.2 CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported herein, above, or on Table 1 performed by a contract laboratory or consulting firm?

☒ Yes (list the name, address, telephone number, and pollutants analyzed by each laboratory or firm.) ☐ No (go to 4.0)

| A. LAB NAME | B. ADDRESS | C. TELEPHONE (area code and number) | D. POLLUTANTS ANALYZED (list or group) |
|-------------|---|--|--|
| TekLab | 5445 Horseshoe Lake Rd, Collinsville, IL 62234 | 618-344-1004 | Trichloroethylene (TCE) Tetrachloroethylene (PCE) |
| | | | |

4.0 STORMWATER**4.1**

Do you have industrial stormwater discharges from the site? If so, attach a site map outlining drainage areas served by each outfall. Indicate the following attributes within each drainage area: pavement or other impervious surfaces; buildings; outdoor storage areas; material loading and unloading areas; outdoor industrial activities; structural stormwater control measures; hazardous waste treatment, storage, and disposal units; and wells or springs in the area.

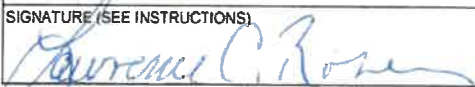
| OUTFALL NUMBER | TOTAL AREA DRAINED (PROVIDE UNITS) | TYPES OF SURFACES (VEGETATED, STONE, PAVED, ETC) | BEST MANAGEMENT PRACTICES EMPLOYED; INCLUDE STRUCTURAL BMPs AND TREATMENT DESIGN FLOW FOR BMPs DESCRIBE HOW FLOW IS MEASURED |
|-------------------|--|---|--|
| N/A | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

4.2 STORMWATER FLOWS

Provide the date of sampling with the flows, and how the flows were estimated.

SIGNATORY REQUIREMENTS**5.0 CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | |
|---|---------------------------------|
| NAME AND OFFICIAL TITLE (TYPE OR PRINT) | TELEPHONE NUMBER WITH AREA CODE |
| Lawrence Rosen, Senior Project Manager | 314-480-4694 |
| SIGNATURE (SEE INSTRUCTIONS) | DATE SIGNED |
|  | 12/5/22 |

ATTACHMENT C

Site Map

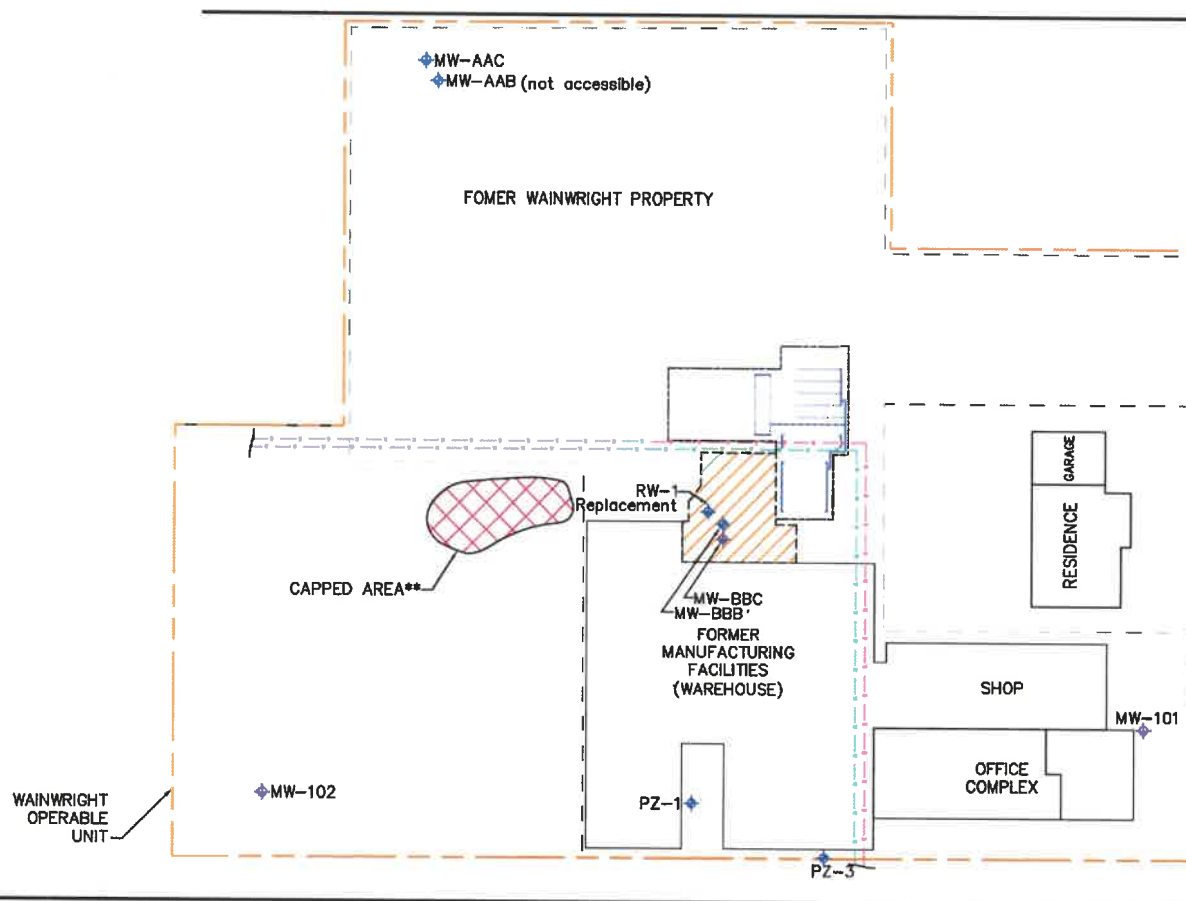


0 20 40 80
Approximate Scale, feet

THIRD STREET

Legend

- ◆ Shallow Monitoring Well
- ◆ Deep Monitoring Well
- Horizontal SVE Piping (7-13ft Depth)
- Former Water Line
- Former Sewer Line
- Parcel Boundary Line
- WOU Boundary Line
- Area 1
- Area 2
- Area 3



BENTON AVENUE

STREET

Monitoring Well Locations
WOU Site
224 Benton Avenue
Valley Park, Missouri

Figure 1

ATTACHMENT D
eDMRs and Analytical Results

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 12/1/20 | 12/31/20 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-----------|----------------------------------|------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | **** | **** | **** | **** | 0.023 | 0.017 | Mgal/d |
| Mon. Location.: End of Pipe | ****;**** | ****;**** | ****;**** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | **** | <2.0 | ug/L | **** | **** | **** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | ****;**** | Monthly Avg.:Monitoring Required | | ****;**** | ****;**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | **** | <0.5 | ug/L | **** | **** | **** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | ****;**** | Monthly Avg.:Monitoring Required | | ****;**** | ****;**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.26 | **** | 8.26 | SU | **** | **** | **** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | ****;**** | Maximum:Monitoring Required | | ****;**** | ****;**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <2 | **** | <2 | % | **** | **** | **** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | ****;**** | Monthly Avg.:2 | | ****;**** | ****;**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | **** | 0 | % | **** | **** | **** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | ****;**** | Monthly Avg.:2 | | ****;**** | ****;**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|-------------------------------------|--|---|
| eSignature Lawrence Rosen | Submission Date January 28, 2021 | User Phone Number (314)480-4694 |
|-------------------------------------|--|---|

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 1/1/21 | 1/31/21 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.018 | 0.016 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0.7 | ***** | 0.7 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.35 | ***** | 8.35 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <2 | ***** | <2 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|------------------------------|--------------------------------------|------------------------------------|
| eSignature Lawrence Rosen | Submission Date February 25, 2021 | User Phone Number (314)480-4694 |
|------------------------------|--------------------------------------|------------------------------------|

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 2/1/21 | 2/28/21 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.024 | 0.021 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | ***** | <0.5 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.38 | ***** | 8.38 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|------------------------------|-----------------------------------|------------------------------------|
| eSignature Lawrence Rosen | Submission Date March 26, 2021 | User Phone Number (314)480-4694 |
|------------------------------|-----------------------------------|------------------------------------|

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 3/1/21 | 3/31/21 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.034 | 0.015 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | ***** | <0.5 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.35 | ***** | 8.35 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| | | |
|--|--|---|
| <small>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</small> | | |
| eSignature Lawrence Rosen | Submission Date April 28, 2021 | User Phone Number (314)480-4694 |

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 4/1/21 | 4/30/21 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | **** | **** | **** | **** | 0.029 | 0.018 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | AE | **** | AE | ug/L | **** | **** | **** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | AE | **** | AE | ug/L | **** | **** | **** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | AE | **** | AE | SU | **** | **** | **** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | AE | **** | AE | % | **** | **** | **** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | AE | **** | AE | % | **** | **** | **** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

System shutdown - pump maintenance/replacement. No influent, therefore no effluent. No sample collected. No lab report to attach/submit.

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|------------------------------|---------------------------------|------------------------------------|
| eSignature Lawrence Rosen | Submission Date May 27, 2021 | User Phone Number (314)480-4694 |
|------------------------------|---------------------------------|------------------------------------|

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 5/1/21 | 5/31/21 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.032 | 0.008 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | ***** | <0.5 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.35 | ***** | 8.35 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|------------------------------|----------------------------------|------------------------------------|
| eSignature Lawrence Rosen | Submission Date June 28, 2021 | User Phone Number (314)480-4694 |
|------------------------------|----------------------------------|------------------------------------|

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 6/1/21 | 6/30/21 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-----------|----------------------------------|------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | **** | **** | **** | **** | 0.034 | 0.032 | Mgal/d |
| Mon. Location.: End of Pipe | ****:**** | ****:**** | ****:**** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | **** | <2.0 | ug/L | **** | **** | **** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | ****:**** | Monthly Avg.:Monitoring Required | | ****:**** | ****:**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | **** | <0.5 | ug/L | **** | **** | **** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | ****:**** | Monthly Avg.:Monitoring Required | | ****:**** | ****:**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.38 | **** | 8.38 | SU | **** | **** | **** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | ****:**** | Maximum:Monitoring Required | | ****:**** | ****:**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0 | **** | 0 | % | **** | **** | **** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | ****:**** | Monthly Avg.:2 | | ****:**** | ****:**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | **** | 0 | % | **** | **** | **** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | ****:**** | Monthly Avg.:2 | | ****:**** | ****:**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|-------------------------------------|---|---|
| eSignature Lawrence Rosen | Submission Date July 28, 2021 | User Phone Number (314)480-4694 |
|-------------------------------------|---|---|

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 7/1/21 | 7/31/21 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-----------|----------------------------------|------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | **** | **** | **** | **** | 0.032 | 0.030 | Mgal/d |
| Mon. Location.: End of Pipe | ****:**** | ****:**** | ****:**** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | **** | <2.0 | ug/L | **** | **** | **** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | ****:**** | Monthly Avg.:Monitoring Required | | ****:**** | ****:**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 3.2 | **** | 3.2 | ug/L | **** | **** | **** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | ****:**** | Monthly Avg.:Monitoring Required | | ****:**** | ****:**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.3 | **** | 8.3 | SU | **** | **** | **** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | ****:**** | Maximum:Monitoring Required | | ****:**** | ****:**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <2 | **** | <2 | % | **** | **** | **** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | ****:**** | Monthly Avg.:2 | | ****:**** | ****:**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | **** | 0 | % | **** | **** | **** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | ****:**** | Monthly Avg.:2 | | ****:**** | ****:**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|-------------------------------------|---|---|
| eSignature Lawrence Rosen | Submission Date August 28, 2021 | User Phone Number (314)480-4694 |
|-------------------------------------|---|---|

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 8/1/21 | 8/31/21 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.027 | 0.020 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | ***** | <0.5 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.39 | ***** | 8.39 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|-------------------------------------|--|---|
| eSignature Lawrence Rosen | Submission Date September 28, 2021 | User Phone Number (314)480-4694 |
|-------------------------------------|--|---|

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 9/1/21 | 9/30/21 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-----------|----------------------------------|------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | **** | **** | **** | **** | 0.24 | 0.22 | Mgal/d |
| Mon. Location.: End of Pipe | ****.**** | ****.**** | ****.**** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | **** | <2.0 | ug/L | **** | **** | **** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | ****.**** | Monthly Avg.:Monitoring Required | | ****.**** | ****.**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | **** | <0.5 | ug/L | **** | **** | **** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | ****.**** | Monthly Avg.:Monitoring Required | | ****.**** | ****.**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.39 | **** | 8.39 | SU | **** | **** | **** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | ****.**** | Maximum:Monitoring Required | | ****.**** | ****.**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0 | **** | 0 | % | **** | **** | **** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | ****.**** | Monthly Avg.:2 | | ****.**** | ****.**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | **** | 0 | % | **** | **** | **** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | ****.**** | Monthly Avg.:2 | | ****.**** | ****.**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|------------------------------|-------------------------------------|------------------------------------|
| eSignature Lawrence Rosen | Submission Date October 28, 2021 | User Phone Number (314)480-4694 |
|------------------------------|-------------------------------------|------------------------------------|

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 10/1/21 | 10/31/21 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.027 | 0.019 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | ***** | <0.5 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.39 | ***** | 8.39 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|------------------------------|--------------------------------------|------------------------------------|
| eSignature Lawrence Rosen | Submission Date November 26, 2021 | User Phone Number (314)480-4694 |
|------------------------------|--------------------------------------|------------------------------------|

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 11/1/21 | 11/30/21 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.024 | 0.022 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | ***** | <0.5 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.29 | ***** | 8.29 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

eSignature
Lawrence Rosen

Submission Date
December 28, 2021

User Phone Number
(314)480-4694

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 12/1/21 | 12/31/21 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.030 | 0.022 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 52.4 | ***** | 52.4 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 105 | ***** | 105 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 7.28 | ***** | 7.28 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 42.3 | ***** | 42.3 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 44.4 | ***** | 44.4 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

December 2021 lab data indicated need for system repair. That data is entered in this eDMR report. Attached is also confirmation sampling lab data report completed after repair to verify system operating at permit level.

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|------------------------------|-------------------------------------|------------------------------------|
| eSignature Lawrence Rosen | Submission Date January 28, 2022 | User Phone Number (314)480-4694 |
|------------------------------|-------------------------------------|------------------------------------|

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 1/1/22 | 1/31/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-----------|----------------------------------|------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | **** | **** | **** | **** | 0.027 | 0.024 | Mgal/d |
| Mon. Location.: End of Pipe | ****,**** | ****,**** | ****,**** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | **** | <2.0 | ug/L | **** | **** | **** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | ****,**** | Monthly Avg.:Monitoring Required | | ****,**** | ****,**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | **** | <0.5 | ug/L | **** | **** | **** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | ****,**** | Monthly Avg.:Monitoring Required | | ****,**** | ****,**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.29 | **** | 8.29 | SU | **** | **** | **** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | ****,**** | Maximum:Monitoring Required | | ****,**** | ****,**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0 | **** | 0 | % | **** | **** | **** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | ****,**** | Monthly Avg.:2 | | ****,**** | ****,**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | **** | 0 | % | **** | **** | **** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | ****,**** | Monthly Avg.:2 | | ****,**** | ****,**** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|------------------------------|----------------------------------|------------------------------------|
| eSignature Lawrence Rosen | Submission Date March 1, 2022 | User Phone Number (314)480-4694 |
|------------------------------|----------------------------------|------------------------------------|

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 2/1/22 | 2/28/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.035 | 0.018 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 1.2 | ***** | 1.2 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.33 | ***** | 8.33 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <2 | ***** | <2 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| | | |
|---|-----------------------------------|------------------------------------|
| I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. | | |
| eSignature Lawrence Rosen | Submission Date March 28, 2022 | User Phone Number (314)480-4694 |

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 3/1/22 | 3/31/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.027 | 0.025 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | ***** | <0.5 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.39 | ***** | 8.39 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

eSignature
Lawrence Rosen

Submission Date
April 28, 2022

User Phone Number
(314)480-4694

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 4/1/22 | 4/30/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.028 | 0.017 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | ***** | <0.5 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.43 | ***** | 8.43 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| | | |
|---|---------------------------------|------------------------------------|
| I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. | | |
| eSignature Lawrence Rosen | Submission Date May 30, 2022 | User Phone Number (314)480-4694 |

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 5/1/22 | 5/31/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.045 | 0.017 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0.0031 | ***** | 0.0031 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.33 | ***** | 8.33 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <2 | ***** | <2 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|------------------------------|----------------------------------|------------------------------------|
| eSignature Lawrence Rosen | Submission Date June 28, 2022 | User Phone Number (314)480-4694 |
|------------------------------|----------------------------------|------------------------------------|

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 6/1/22 | 6/30/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.028 | 0.024 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 1.0 | ***** | 1.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.22 | ***** | 8.22 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <2 | ***** | <2 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

eSignature
Lawrence Rosen

Submission Date
July 28, 2022

User Phone Number
(314)480-4694

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 7/1/22 | 7/31/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.029 | 0.025 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0.7 | ***** | 0.7 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.02 | ***** | 8.02 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <2 | ***** | <2 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

| | | |
|---|------------------------------------|------------------------------------|
| I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. | | |
| eSignature Lawrence Rosen | Submission Date August 26, 2022 | User Phone Number (314)480-4694 |

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 8/1/22 | 8/31/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.043 | 0.019 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | ***** | <0.5 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.27 | ***** | 8.27 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

eSignature
Lawrence Rosen

Submission Date
September 28, 2022

User Phone Number
(314)480-4694

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

| Permit Number | Outfall Number |
|-------------------|----------------|
| MO0123021 | 001A |
| Monitoring Period | |
| 9/1/22 | 9/30/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|-------------|----------------------------------|-------|--------------------------------|----------------------------------|--------|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 0.044 | 0.025 | Mgal/d |
| Mon. Location.: End of Pipe | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | <2.0 | ***** | <2.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | <0.5 | ***** | <0.5 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| pH | 8.09 | ***** | 8.09 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Minimum:Monitoring Required | *****:***** | Maximum:Monitoring Required | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Tetrachloroethylene | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Trichloroethylene (Trichloroethene) | 0 | ***** | 0 | % | ***** | ***** | ***** |
| Mon. Location.: Other Treatment, Process Complete | Daily Max.:2 | *****:***** | Monthly Avg.:2 | | *****:***** | *****:***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

Valley Park TCE Site -
Wainwright
Operable Unit
VALLEY PARK, MO, St. Louis

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

St. Louis Regional Office
7545 South Lindbergh,
Suite 210
St. Louis, MO, 63125

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| | | |
|------------------------------|-------------------------------------|------------------------------------|
| eSignature Lawrence Rosen | Submission Date October 26, 2022 | User Phone Number (314)480-4694 |
|------------------------------|-------------------------------------|------------------------------------|