STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOU	RI STATE OPERATING PERMIT
In compliance with the Missouri Clean Pollution Control Act (Public Law 92-5	Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Wate 00, 92 nd Congress) as amended,
Permit No.	MO-0135763
Owner: Address:	Wyeth Holdings LLC c/o Pfizer 100 Route 206N; Peapack, NJ 079775
Continuing Authority: Address:	Wyeth Holdings LLC c/o Pfizer 100 Route 206N; Peapack, NJ 079775
Facility Name: Address:	Wyeth Holdings LLC, Groundwater Treatment system 3150 Hwy JJ, Palmyra, MO 63461
Legal Description: Latitude/Longitude:	Sec. 15, T58N, R5W, Marion County X= 633759; Y= 4409854
Receiving Stream: First Classified Stream and ID: USGS Basin & Sub-watershed No.:	Tributary to Bay de Charles 8-20-13 MUDD V 1.0 (C) (3960) (07110004-0304)
is authorized to discharge from the facil as set forth herein:	ity described herein, in accordance with the effluent limitations and monitoring requirements
FACILITY DESCRIPTION Outfall #001 – SIC #9512 (NAICS 9241 Air Stripping to remove volatile organic Certified Operator is not required. Design flow is 0.216 MGD Average flow is 0.118 MGD.	
	discharges under the Missouri Clean Water Law and the National Pollutant Discharge other regulated areas. This permit may be appealed in accordance with Sections 640.013,
October 1, 2018 Effective Date	Edward B. Galbraith, Director, Division of Environmental Quality

Chris Wieberg, Director, Water Projection Program

September 30, 2023
Expiration Date

Permit No. MO-0135763 Page 2 of 4

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL #001
main outfall

TABLE A-1
FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <u>October 1, 2018</u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

		FINAL E	FFLUENT LIMI	TATIONS	MONITORING RE	QUIREMENTS
EFFLUENT PARAMETERS	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	Measurement Frequency	SAMPLE TYPE
PHYSICAL						
Flow	MGD	*		*	once/month	24 hr. total
CONVENTIONAL						
pH ^Ω	SU	6.5 to 9.0		6.5 to 9.0	once/month	grab
VOLATILE ORGANICS						
1,2-Dichloroethane (1,2-DCA)	μg/L	105		70	once/month	grab
Chlorobenzene (MCB)	μg/L	150		100	once/month	grab
1,1,2-Trichloroethane	μg/L	1.5		1.0	once/month	grab
Vinyl Chloride	μg/L	1.5		1.0	once/month	grab
Tetrachloroethylene	μg/L	1.6		0.8	once/month	grab
Trichloroethylene	μg/L	1.5		1.0	once/month	grab
Benzene	μg/L	1.5		1.0	once/month	grab
MONITORING REPORTS SHALL E						
THERE SHALL BE NO DISCHARG	E OF FLOATIN	NG SOLIDS OR	VISIBLE FOA	M IN OTHER	THAN TRACE AMOU	NTS.
Whole Effluent Toxicity, Chronic See Special Condition #1	TU_c	*			once/year	grab
Movemental Deposite Creek Dr. Cres	romen Ve in	True Eman	Depoper In D	TANKE TANKE	20 2010 Trreps Cr.	urr Dr Mo

MONITORING REPORTS SHALL BE SUBMITTED YEARLY; THE FIRST REPORT IS DUE JANUARY 28, 2019. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

 Ω The facility will report the minimum and maximum values. pH is not to be averaged.

B. STANDARD CONDITIONS

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

C. SPECIAL CONDITIONS

- 1. Chronic Whole Effluent Toxicity (WET) tests shall be conducted as follows:
 - (a) Freshwater Species and Test Methods: Species and short-term test methods for estimating the chronic toxicity of NPDES effluents are found in the most recent edition of *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms (EPA/821/R-02/013; Table IA, 40 CFR Part 136).* The permittee shall concurrently conduct 7-day, static, renewal toxicity tests with the following species:
 - o The fathead minnow, *Pimephales promelas* (Survival and Growth Test Method 1000.0).
 - The daphnid, Ceriodaphnia dubia (Survival and Reproduction Test Method 1002.0).
 - (b) Chemical and physical analysis of the upstream control sample and effluent sample shall occur immediately upon being received by the laboratory, prior to any manipulation of the effluent sample beyond preservation methods consistent with federal guidelines for WET testing that are required to stabilize the sample during shipping. Where upstream receiving water is not available or known to be toxic, other approved control water may be used.
 - (c) Test conditions must meet all test acceptability criteria required by the EPA Method used in the analysis.
 - (d) The Allowable Effluent Concentration (AEC) is 100%, the dilution series is: 100%, 50%, 25%, 12.5%, and 6.25%.
 - (e) All chemical and physical analysis of the effluent sample performed in conjunction with the WET test shall be performed at the 100% effluent concentration.

^{*} Monitoring requirement only.

Permit No. MO-0135763 Page 3 of 4

(f) The facility must submit a full laboratory report for all toxicity testing. The report must include a quantification of chronic toxic units ($TU_c = 100/IC_{25}$) reported according to the *Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* chapter on report preparation and test review. The 25 percent Inhibition Effect Concentration (IC_{25}) is the toxic or effluent concentration that would cause 25 percent reduction in mean young per female or in growth for the test populations.

- 2. Electronic Discharge Monitoring Report (eDMR) Submission System
 - (a) Discharge Monitoring Reporting Requirements. The permittee must electronically submit compliance monitoring data via the eDMR system. In regards to Standard Conditions Part I, Section B, #7, the eDMR system is currently the only Department approved reporting method for this permit.
 - (b) Programmatic Reporting Requirements. The following reports (if required by this permit) must be electronically submitted as an attachment to the eDMR system until such a time when the current or a new system is available to allow direct input of the data:
 - (1) Any additional report required by the permit excluding bypass reporting.

 After such a system has been made available by the Department, required data shall be directly input into the system by the next report due date.
 - (c) Other actions. The following shall be submitted electronically after such a system has been made available by the Department:
 - (1) General Permit Applications/Notices of Intent to discharge (NOIs);
 - (2) Notices of Termination (NOTs);
 - (3) No Exposure Certifications (NOEs);
 - (4) Low Erosivity Waivers and Other Waivers from Stormwater Controls (LEWs); and
 - (5) Bypass reporting.
 - (d) Electronic Submissions. To access the eDMR system, use the following link in your web browser: https://edmr.dnr.mo.gov/edmr/E2/Shared/Pages/Main/Login.aspx.
 - (e) Waivers from Electronic Reporting. The permittee must electronically submit compliance monitoring data and reports unless a waiver is granted by the department in compliance with 40 CFR Part 127. The permittee may obtain an electronic reporting waiver by first submitting an eDMR Waiver Request Form: http://dnr.mo.gov/forms/780-2692-f.pdf. The Department will either approve or deny this electronic reporting waiver request within 120 calendar days. Only permittees with an approved waiver request may submit monitoring data and reports on paper to the Department for the period that the approved electronic reporting waiver is effective.
- 3. Permittee shall adhere to the following minimum Best Management Practices (BMPs):
 - (a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehouse activities and thereby prevent the contamination of stormwater from these substances.
 - (b) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
 - (c) Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so that 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.
 - (d) Provide good housekeeping practices on the site to keep trash from entry into waters of the state.
- 4. To protect the general criteria found at 10 CSR 20-7.031(4), before releasing water accumulated in secondary containment areas, it must be examined for hydrocarbon odor and presence of sheen. If the presence of odor or sheen is indicated, the water shall be treated using an appropriate method or disposed of in accordance with legally approved methods, such as being sent to a wastewater treatment facility. Following treatment, the water shall be tested for oil and grease, benzene, toluene, ethylbenzene, and xylene using 40 CFR part 136 methods. All pollutant levels must be below the most protective, applicable standards for the receiving stream, found in 10 CSR 20-7.031 Table A. Records of all testing and treatment of water accumulated in secondary containment shall be stored in the SWPPP to be available on demand to Department and EPA personnel.
- 5. The full implementation of this operating permit, which includes implementation of any applicable schedules of compliance, shall constitute compliance with all applicable federal and state statutes and regulations in accordance with §644.051.16, RSMo, and the CWA section 402(k); however, this permit may be reopened and modified, or alternatively revoked and reissued to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), §304(b)(2), and §307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or controls any pollutant not limited in the permit.

Permit No. MO-0135763 Page 4 of 4

6. All outfalls must be clearly marked in the field.

7. Changes in Discharges of Toxic Pollutant

In addition to the reporting requirements under §122.41(1), all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:

- (a) That 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) That 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 that pollutant in the permit application in accordance with §122.21(g)(7).
 - (4) The level established by the Director in accordance with §122.44(f).
- 8. Report as 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. Reporting of Non-Detects

- (a) An analysis conducted by the permittee or their contracted laboratory shall be conducted in such a way that the precision and accuracy of the analyzed result can be enumerated.
- (b) The permittee shall not report a sample result as "non-detect" without also reporting the detection limit of the test. Reporting as "non-detect" without also including the detection limit will be considered failure to report, which is a violation of this permit.
- (c) The permittee shall report the "non-detect" result using the less than sign and the minimum detection limit (e.g. <10).
- (d) Where the permit contains a Minimum Level (ML) and the permittee is granted authority in the permit to report zero in lieu of the < ML for a specified parameter (conventional, priority pollutants, metals, etc.), then zero (0) is to be reported for that parameter.
- (e) See Standard Conditions Part I, Section A, #4 regarding proper detection limits used for sample analysis.
- (f) When calculating monthly averages, one-half of the minimum detection limit (MDL) should be used instead of a zero. Where all data are below the MDL, the "<MDL" shall be reported as indicated in item (C).
- 10. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).

MISSOURI DEPARTMENT OF NATURAL RESOURCES FACT SHEET FOR THE PURPOSE OF RENEWAL OF MO-0135763 WYETH HOLDINGS, LLC.

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution 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 (Section 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" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified for less.

As 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 the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (MSOP or operating permit) listed below. A factsheet is not an enforceable part of an operating permit.

Part I. FACILITY INFORMATION

Facility Type: Industrial – Groundwater Treatment

Facility SIC Code(s): 9512
Facility NAICS Code: 924120
Application Date: 03/19/2018
Expiration Date: 09/30/2018

Last Inspection: 05/25/2016 not in compliance at time of inspection

FACILITY DESCRIPTION:

The groundwater extraction and air stripping system was designed to remove 99% of the concentrations of all volatile organic compounds (VOCs). Air stripping is a process of pumping air bubbles into VOC impacted water and subsequently releasing the VOCs into the atmosphere. From the Antidegradation report (Appendix A), "The air stripper to be used in the groundwater extraction system is a low-profile or tray air stripper. Tray air strippers have a number of trays that are set horizontally. Water is cascaded over the trays to maximize air-water contact. As the water descends, air is forced up through perforations in the trays, stripping off the volatile compounds. A sump at the bottom of the tower or tray stripper collects the treated water."

Wyeth has modified its stripper system by placing the strippers in series to increase removal efficiencies. Wyeth installed and eventually removed two granular activated carbon vessels downstream of the air strippers in attempts to improve removal efficiencies, dosing of the influent with sequestrant to minimize biological and mineral precipitation of iron, and re-piping the air strippers to increase the air flow through the stripper. Wyeth injects ozone into the process to reduce the impacts of biofouling on the air stripper due to the concentrations of iron and other naturally occurring parameters in the groundwater.

The remediation and clean-up of the historic chemical spill is part of a RCRA corrective action, which is regulated by MDNR Hazardous Waste Program, permit number-MOD0226075. The site is located on the flood plain of the Mississippi River approximately eight miles upstream from Hannibal, Missouri and is an active agricultural chemical production facility.

PERMITTED FEATURES TABLE:

OUTFALL	AVERAGE FLOW (MGD)	DESIGN FLOW (MGD)	TREATMENT LEVEL	EFFLUENT TYPE
#001	0.104	0.216	Air Stripping	Groundwater Remediation

FACILITY PERFORMANCE HISTORY & COMMENTS:

The electronic discharge monitoring reports were reviewed for the last five years. There have been no limit exceedances since the last permit renewal. The facility was found to be out of compliance during the last inspection due to failure to mark the outfall location. The facility marked the outfall and returned to compliance.

FACILITY MAP:



WATER BALANCE DIAGRAM:

groundwater ----->RW1 ------v

I groundwater ----->RW2 ----->Combined Influent ----->Air Stripper 1 ----->Air Stripper 2 ----->Outfall 001

I groundwate r---->RW3 ------^

MAJOR WATER USER:

Any surface or groundwater user with a water source and the equipment necessary to withdraw or divert 100,000 gallons (or 70 gallons per minute) or more per day combined from all sources from any stream, river, lake, well, spring, or other water source is considered a major water user in Missouri. All major water users are required by law to register water use annually (Missouri Revised Statues Chapter 256.400 Geology, Water Resources and Geodetic Survey Section). https://dnr.mo.gov/pubs/pub2337.htm

Applicable; this facility is a major water user and is registered with the state under Major Water User ID #46048381

Part II. RECEIVING WATERBODY INFORMATION

RECEIVING WATER BODY'S WATER QUALITY:

The receiving waterbody has no concurrent water quality data available. There is no available relevant water quality information about the first classified receiving stream, Tributary to Bay de Charles (C) (3960). In the previous permit, the stream was listed as "Tributary to Mississippi River"; however, the first classified waterbody the stream reaches is an unnamed lake (L3) (7630). The flow then continues on to Bay de Charles (P1) (4).

303(D) LIST:

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. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock, and wildlife. The 303(d) list helps state and federal agencies keep track of impaired waters not addressed by normal water pollution control programs. http://dnr.mo.gov/env/wpp/waterquality/303d/303d.htm

✓ Not applicable; this facility does not discharge to an impaired segment of a 303(d) listed stream.

TOTAL MAXIMUM DAILY LOAD (TMDL):

A TMDL is a calculation of the maximum amount of a given pollutant that 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. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan or TMDL may be developed. The TMDL shall include the WLA calculation. http://dnr.mo.gov/env/wpp/tmdl/

✓ Not applicable; this facility is not associated with a TMDL.

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:

✓		gulations [10 CSR 20-7.015(1)(B)], the waters of the state are divided into the following seven
	categories. Each category lists	effluent limitations for specific parameters, which are presented in each outfall's effluent limitation
	table and further discussed in the	he derivation & discussion of limits section.
	Missouri or Mississippi River:	
	Lake or Reservoir:	
	Losing:	
	Metropolitan No-Discharge:	
	Special Stream:	
	Subsurface Water:	
	All Other Waters:	

RECEIVING WATERBODY TABLE:

OUTFALL	Waterbody Name	CLASS	WBID	DESIGNATED USES*	DISTANCE TO SEGMENT	12-digit HUC
	Tributary to Bay de Charles	n/a	n/a	GEN	0.0	07110004-0304 Bay Island-
#001	Tributary to Bay de Charles 8-20-2013 MUDD V1.0	С	3960	HHP, IRR, LWW, SCR, WBC-B, WWH (AQL)	0.11 mi	Mississippi River

n/a not applicable

WBID = Waterbody IDentification: Missouri Use Designation Dataset 8-20-13 MUDD V1.0 data can be found as an ArcGIS shapefile on MSDIS at ftp://msdis.missouri.edu/pub/Inland_Water_Resources/MO_2014_WQS_Stream_Classifications_and_Use_shp.zip

* As per 10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission's water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and 1st classified receiving stream's beneficial water uses to be maintained are in the receiving stream table in accordance with [10 CSR 20-7.031(1)(C)].

Uses which may be found in the receiving streams table, above: 10 CSR 20-7.031(1)(C)1.:

AQL = Protection of aquatic life (Current narrative use(s) are defined to ensure the protection and propagation of fish shellfish and wildlife, which is further subcategorized as: WWH = Warm Water Habitat; CLH = Cool Water Habitat; CDH = Cold Water Habitat; EAH = Ephemeral Aquatic Habitat; MAH = Modified Aquatic Habitat; LAH = Limited Aquatic Habitat. This permit uses AQL effluent limitations in 10 CSR 20-7.031 Table A for all habitat designations unless otherwise specified.)

10 CSR 20-7.031(1)(C)2.: Recreation in and on the water

WBC = Whole Body Contact recreation where the entire body is capable of being submerged;

WBC-A = Whole body contact recreation supporting swimming uses and has public access;

WBC-B = Whole body contact recreation supporting swimming;

SCR = Secondary Contact Recreation (like fishing, wading, and boating).

10 CSR 20-7.031(1)(C)3. to 7.:

HHP (formerly HHF) = Human Health Protection as it relates to the consumption of fish;

IRR = Irrigation for use on crops utilized for human or livestock consumption;

LWW = Livestock and wildlife watering (Current narrative use is defined as LWP = Livestock and Wildlife Protection);

 $\label{eq:DWS} \textbf{DWS} = Drinking \ Water \ Supply;$

IND = Industrial water supply

10 CSR 20-7.031(1)(C)8-11.: Wetlands (10 CSR 20-7.031 Table A currently does not have corresponding habitat use criteria for these defined uses)

WSA = Storm- and flood-water storage and attenuation; WHP = Habitat for resident and migratory wildlife species;

WRC = Recreational, cultural, educational, scientific, and natural aesthetic values and uses; WHC = Hydrologic cycle maintenance.

10 CSR 20-7.031(6): GRW = Groundwater

MIXING CONSIDERATIONS:

Mixing zone: not allowed [10 CSR 20-7.031(5)(A)4.B.(I)(a)].

Zone of initial dilution: not allowed [10 CSR 20-7.031(5)(A)4.B.(I)(b)].

RECEIVING STREAM MONITORING REQUIREMENTS:

No receiving water monitoring requirements are recommended at this time.

Part III. RATIONALE AND DERIVATION OF EFFLUENT LIMITATIONS & PERMIT CONDITIONS

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:

As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

✓ Not applicable; the facility does not discharge to a losing stream as defined by [10 CSR 20-2.010(36)] & [10 CSR 20-7.031(1)(N)], or is an existing facility.

ANTI-BACKSLIDING:

Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(l)] require a reissued permit to be as stringent as the previous permit with some exceptions. Backsliding (a less stringent permit limitation) is only allowed under certain conditions.

- Limitations in this operating permit for the reissuance conform to the anti-backsliding provisions of Section 402(o) of the Clean Water Act, and 40 CFR Part 122.44.
 - ✓ The Department determined technical mistakes or mistaken interpretations of law were made in issuing the permit under section 402(a)(1)(b).
 - The previous permit contained a specific set of prohibitions related to general criteria found in 10 CSR 20-7.031(4); however, there was no determination as to whether the discharges have reasonable potential to cause or contribute to excursion of those general water quality standards in the previous permit. Federal regulations 40 CFR 122.44(d)(1)(iii) requires that in instances were reasonable potential (RP) to cause or contribute to an exceedance of a water quality standard exists, a numeric limitation must be included in the permit. Rather than conducting the appropriate RP determination and establishing numeric effluent limitations for specific pollutant parameters, the previous permit simply placed the prohibitions in the permit. These conditions were removed from the permit. Appropriate reasonable potential determinations were conducted for each general criterion listed in 10 CSR 20-7.031(4) and effluent limitations were placed in the permit for those general criteria where it was determined the discharge had reasonable potential to cause or contribute to excursions of the general criteria. Specific effluent limitations were not included for those general criteria where it was determined that the discharges will not cause or contribute to excursions of general criteria. Removal of the prohibitions does not reduce the protections of the permit or allow for impairment of the receiving stream. The permit maintains sufficient effluent limitations, monitoring requirements and best management practices to protect water quality.
 - The previous permit's special conditions required sampling of total petroleum hydrocarbons (TPH) under the decision model to discharge stormwater having a sheen in secondary containment. The special condition has been revised in all permits beginning in 2015 to include oil and grease and BTEX (benzene, toluene, ethylbenzene, and xylene) sampling of the potentially contaminated stormwater in secondary containment. This change was due to 1) no water quality standards for TPH; and 2) there are no approved methods found in 40 CFR 136 for TPH. The facility need only sample for these constituents prior to release when a sheen or petroleum odor is present.

ANTIDEGRADATION REVIEW:

For process water discharge with new, altered, or expanding discharges, the Department is to document, by means of antidegradation review, if the use of a water body's available assimilative capacity is justified. In accordance with Missouri's water quality regulations for antidegradation [10 CSR 20-7.031(3)], degradation may be justified by documenting the socio-economic importance of a discharge

after determining the necessity of the discharge. Facilities must submit the antidegradation review request to the Department prior to establishing, altering, or expanding discharges. See http://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm

✓ Not applicable; the facility has not submitted information proposing expanded or altered process water discharge; no further degradation proposed therefore no further review necessary. The facility had an antidegradation review done in 2009, and amended in 2015. The limitations determined in that antidegradation review and amended review are applied in this permit. (See Appendix A)

For stormwater discharges with new, altered, or expanding discharges, the stormwater BMP chosen for the facility, through the antidegradation analysis performed by the facility, must be implemented and maintained at the facility. Failure to implement and maintain the chosen BMP alternative is a permit violation; see SWPPP.

✓ Not applicable; the facility does not have stormwater discharges or the stormwater outfalls onsite have no industrial exposure.

COMPLIANCE AND ENFORCEMENT:

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

✓ Not applicable; the permittee/facility is not currently under Water Protection Program enforcement action.

EFFLUENT LIMITATION GUIDELINE:

Effluent Limitation Guidelines, or ELGs, are found at 40 CFR 400-499. These are limitations established by the EPA based on the SIC code and the type of work a facility is conducting. Most ELGs are for process wastewater and some address stormwater. All are technology based limitations which must be met by the applicable facility at all times.

✓ The facility does not have an associated ELG.

GROUNDWATER MONITORING:

Groundwater is a water of the state according to 10 CSR 20-7.015(1)11, and 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 (WPP); however, groundwater monitoring occurs for the Department's Hazardous Waste Management Program. The WPP does not require submission of this data.

REASONABLE POTENTIAL ANALYSIS (RPA):

Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants that 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. If the permit writer determines any given pollutant has the reasonable potential to cause or contribute to an instream excursion above the WQS, the permit must contain effluent limits for that pollutant [40 CFR Part 122.44(d)(1)(iii)].

✓ Not applicable; an RPA was not conducted for this facility. The limits in this permit were determined by an Antidegradation Review, and are therefore not subject to RPAs.

SCHEDULE OF COMPLIANCE (SOC):

A schedule of 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/or the terms and conditions of an operating permit. SOCs are allowed under 40 CFR 122.47 providing certain conditions are met.

✓ Not applicable; this permit does not contain a SOC. Limits have not become more restrictive.

SPILL REPORTING:

Per 10 CSR 24-3.010, 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 practicable 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://dnr.mo.gov/env/esp/spillbill.htm

SLUDGE - DOMESTIC BIOSOLIDS:

Biosolids are solid materials resulting from domestic wastewater treatment meeting federal and state criteria for beneficial use (i.e. fertilizer). Sewage sludge is solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Additional information: http://extension.missouri.edu/main/DisplayCategory.aspx?C=74 (WQ422 through WQ449).

✓ Not applicable; this condition is not applicable to the permittee for this facility.

SLUDGE - INDUSTRIAL:

Industrial sludge is solid, semi-solid, or liquid residue generated during the treatment of industrial 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 a material derived from industrial sludge.

✓ Not applicable; sludge is not generated at this facility.

VARIANCE:

Per the Missouri Clean Water Law §644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

✓ Not applicable; this permit is not drafted under premise of a petition for variance.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:

As per [10 CSR 20-2.010(78)], the WLA is the amount of pollutant each discharger is allowed to discharge into the receiving stream without endangering water quality. Two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs) are reviewed. If one limit does not provide adequate protection for the receiving waters, then the other must be used.

✓ Not applicable; wasteload allocations were not calculated.

WLA MODELING:

Permittees may submit site specific studies to better determine the site specific wasteload allocations applied in permits.

✓ Not applicable; a WLA study was either not submitted or determined not applicable by Department staff.

WATER QUALITY STANDARDS:

Per 10 CSR 20-7.031(4), general criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, 40 CFR 122.44(d)(1) directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including state narrative criteria for water quality.

WHOLE EFFLUENT TOXICITY (WET) TEST:

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

✓	Applicable; under the federal Clean Water Act (CWA) §101(a)(3), requiring WET testing is reasonably appropriate for site-
	specific Missouri State Operating Permits for discharges to waters of the state issued under the National Pollutant Discharge
	Elimination System (NPDES). WET testing is also required by 40 CFR 122.44(d)(1). WET testing ensures the provisions in 10
	CSR 20-6 and the Water Quality Standards in 10 CSR 20-7 are being met. Under 10 CSR 20-6.010(8)(A)4, the Department may
	require other terms and conditions it deems necessary to assure compliance with the CWA and related regulations of the Missouri
	Clean Water Commission. The following Missouri Clean Water Laws (MCWL) apply: §644.051.3. requires the Department to set
	permit conditions complying with the MCWL and CWA; §644.051.4 specifically references toxicity as an item we must consider
	in writing permits (along with water quality-based effluent limits); and §644.051.5. is the basic authority to require testing
	conditions. WET tests are required by all facilities meeting the following criteria:
	Facility is a designated a Major
	Facility continuously or routinely exceeds its design flow
	Facility that exceeds its design population equivalent (PE) for BOD ₅ whether or not its design flow is being exceeded
	Facility (whether primarily domestic or industrial) that alters its production process throughout the year
	Facility handles large quantities of toxic substances, or substances that are toxic in large amounts
	Facility has Water Quality-Based Effluent Limitations for toxic substances (other than NH ₃)
	Facility is a municipality with a Design Flow \geq 22,500 GPD
	Other

Part IV. EFFLUENT LIMITS DETERMINATION

Effluent limitations derived and established for this permit are based on current operations of the facility. Effluent means both process water and stormwater. Any flow through the outfall is considered a discharge and must be sampled and reported as provided below. Future permit action due to facility modification may contain new operating permit terms and conditions that supersede the terms and conditions, including effluent limitations, of this operating permit. Daily maximums and monthly averages are required under 40 CFR 122.45(d)(1) for continuous discharges not from a POTW.

GENERAL CRITERIA CONSIDERATIONS:

In accordance with 40 CFR 122.44(d)(1), effluent limitations shall be placed into permits for pollutants which have been determined to cause, have the reasonable potential to cause, or to contribute to an excursion above any State water quality standard, including State narrative criteria for water quality. The rule further states pollutants which have been determined to cause, have the reasonable potential to cause, or contribute to an excursion above a narrative criterion within an applicable State water quality standard, the permit shall contain a numeric effluent limitation to protect that narrative criterion. The previous permit included the narrative criteria as specific prohibitions placed upon the discharge. These prohibitions were included in the permit absent any discussion of the discharge's reasonable potential to cause or contribute to an excursion of the criterion. In order to comply with this regulation, the permit writer has completed a reasonable potential determination on whether the discharge has reasonable potential to cause, or contribute to an excursion of the general criteria listed in 10 CSR 20-7.031(4). These specific requirements are listed below followed by derivation and discussion (the lettering matches that of the rule itself, under 10 CSR 20-7.031(4)). In instances where reasonable potential exists, the permit includes numeric limitations to address the reasonable potential. In instances where reasonable potential does not exist the permit includes monitoring of the discharges potential to impact the receiving stream's narrative criteria. Finally, all of the previous permit narrative criteria prohibitions have been removed from the permit given they are addressed by numeric limits where reasonable potential exists. It should also be noted that Section 644.076.1, RSMo as well as Section D – Administrative Requirements of Standard Conditions Part I of this permit state that it shall be unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri that is 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.

- (A) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses.
 - For all outfalls, there is no RP for putrescent bottom deposits preventing full maintenance of beneficial uses because nothing disclosed by the permittee at renewal for these outfalls indicates putrescent wastewater would be discharged from the facility.
 - For all outfalls, there is no RP for unsightly or harmful bottom deposits preventing full maintenance of beneficial uses because nothing disclosed by the permittee at renewal indicates unsightly or harmful bottom deposits would be discharged from this facility.
- (B) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses.
 - For all outfalls, there is no RP for oil in sufficient amounts to be unsightly preventing full maintenance of beneficial uses because nothing disclosed by the permittee at renewal or during prior sampling for DMR requirements for these outfalls indicates oil will be present in sufficient amounts to impair beneficial uses.
 - For all outfalls, there is no RP for scum and floating debris in sufficient amounts to be unsightly preventing full maintenance of beneficial uses because nothing disclosed by the permittee at renewal for these outfalls indicates scum and floating debris will be present in sufficient amounts to impair beneficial uses
- (C) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses.
 - For all outfalls, there is no RP for unsightly color or turbidity in sufficient amounts preventing full maintenance of beneficial uses because nothing disclosed by the permittee at renewal for these outfalls indicates unsightly color or turbidity will be present in sufficient amounts to impair beneficial uses.
 - For all outfalls, there is no RP for offensive odor in sufficient amounts preventing full maintenance of beneficial uses because nothing disclosed by the permittee at renewal for these outfalls indicates offensive odor will be present in sufficient amounts to impair beneficial uses.
- (D) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life.
 - The permit writer considered specific toxic pollutants when writing this permit. Technology based numeric effluent limitations are included for pollutants in this permit. These technology based limitations are lower than those for water quality, therefore no RP for this criterion.
- (E) There shall be no significant human health hazard from incidental contact with the water.
 - It is the permit writer's opinion that this criterion is the same as (D).

- (F) There shall be no acute toxicity to livestock or wildlife watering.
 - It is the permit writer's opinion that this criterion is the same as (D).
- (G) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community.
 - For all outfalls, there is no RP for physical changes that would impair the natural biological community because nothing
 disclosed by the permittee at renewal for these outfalls indicates physical changes that would impair the natural biological
 community.
 - For all outfalls, there is no RP for hydrologic changes that would impair the natural biological community because nothing disclosed by the permittee at renewal for these outfalls indicates hydrologic changes that would impair the natural biological community.
- (H) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
 - There are no solid waste disposal activities or any operation that has reasonable potential to cause or contribute to the materials listed above being discharged through any outfall.

OUTFALL #001 - MAIN FACILITY OUTFALL

EFFLUENT LIMITATIONS TABLE:

PARAMETERS	Unit	Daily Max	MONTHLY AVG	PREVIOUS PERMIT LIMITS	Minimum Sampling Frequency	Minimum Reporting Frequency	SAMPLE TYPE
PHYSICAL							
FLOW	MGD	*	*	SAME	ONCE/MONTH	ONCE/MONTH	24 Hr. Тот
CONVENTIONAL							
PH [‡]	SU	6.5 то 9.0	6.5 to 9.0	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
VOLATILE ORGANICS							
1,2-DICHLOROETHANE (1,2-DCA)	μg/L	105	70	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
CHLOROBENZENE (MCB)	μg/L	150	100	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
1,1,2-Trichloroethane	μg/L	1.5	1.0	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
VINYL CHLORIDE	μg/L	1.5	1.0	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
TETRACHLOROETHYLENE	μg/L	1.6	0.8	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
TRICHLOROETHYLENE	μg/L	1.5	1.0	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
BENZENE	μg/L	1.5	1.0	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
OTHER							
WET TEST - CHRONIC	TUc	*	-	SAME	ONCE/YEAR	ONCE/YEAR	GRAB

^{*} Monitoring requirement only

DERIVATION AND DISCUSSION OF LIMITS:

PHYSICAL:

Flow

In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification. The facility will report the total flow in millions of gallons per day (MGD).

CONVENTIONAL:

pН

6.5 to 9.0 SU, continued from the last permit. The Water Quality Standard at 10 CSR 20-7.031(5)(E) states water contaminants shall not cause pH to be outside the range of 6.5 to 9.0 standard pH units.

Report the minimum and maximum pH values; pH is not to be averaged.

VOLATILE ORGANICS:

1,2-Dichloroethane (1,2-DCA)

Daily maximum limit of $105 \mu g/L$, with a monthly average limit of $70 \mu g/L$, continued from previous permit. These limits are assigned per the antidegradation review. These limits are more restrictive than limits which would be assigned based on the water quality standards found at 10 CSR 20-7.031 Table A.

Chlorobenzene (MCB)

Daily maximum limit of $150 \mu g/L$, with a monthly average limit of $100 \mu g/L$, continued from previous permit. These limits are assigned per the antidegradation review. These limits are more restrictive than limits which would be assigned based on the water quality standards found at 10 CSR 20-7.031 Table A.

1,1,2-Trichloroethane

Daily maximum limit of $1.5~\mu g/L$, with a monthly average limit of $1.0~\mu g/L$, continued from previous permit. These limits are assigned per the antidegradation review. These limits are more restrictive than limits which would be assigned based on the water quality standards found at 10~CSR~20-7.031~Table~A.

Vinyl Chloride

Daily maximum limit of $1.5 \mu g/L$, with a monthly average limit of $1.0 \mu g/L$, continued from previous permit. These limits are assigned per the antidegradation review. These limits are more restrictive than limits which would be assigned based on the water quality standards found at 10 CSR 20-7.031 Table A.

Tetrachloroethylene

Daily maximum limit of $1.6 \,\mu\text{g/L}$, with a monthly average limit of $0.8 \,\mu\text{g/L}$, continued from previous permit. These limits are assigned per the antidegradation review. These limits are more restrictive than limits which would be assigned based on the water quality standards found at $10 \, \text{CSR} \, 20\text{-}7.031 \, \text{Table A}$.

Trichloroethylene

Daily maximum limit of $1.5 \mu g/L$, with a monthly average limit of $1.0 \mu g/L$, continued from previous permit. These limits are assigned per the antidegradation review. These limits are more restrictive than limits which would be assigned based on the water quality standards found at 10 CSR 20-7.031 Table A.

Benzene

Daily maximum limit of $1.5 \mu g/L$, with a monthly average limit of $1.0 \mu g/L$, continued from previous permit. These limits are assigned per the antidegradation review. These limits are more restrictive than limits which would be assigned based on the water quality standards found at 10 CSR 20-7.031 Table A.

OTHER:

Whole Effluent Toxicity (WET) Test, Chronic

Monitoring is required to determine if reasonable potential exists for the discharge to cause toxicity within the receiving stream.

The standard Allowable Effluent Concentration (AEC) for facilities discharging to unclassified, Class C, Class P (with default Mixing Considerations), or Lakes [10 CSR 20-7.031(4)(A)4.B.(IV)(b)] is 100%.

The standard dilution series for facilities discharging to unclassified, Class C, Class P (with default mixing considerations), or lakes [10 CSR 20-7.031(4)(A)4.B.(IV)(b)] is 100%, 50%, 25%, 12.5%, & 6.25%.

Sampling Intervals for WET

WET Testing schedules and intervals are established in accordance with the Department's Permit Manual; Section 5.2 *Effluent Limits/WET Testing for Compliance Bio-monitoring*. When I&I is an issue, it is recommended that WET testing be conducted during the period of lowest stream flow.

☑ Discharges with pollutants that pose a strong probability of causing chronic toxicity, such as pesticides or certain other
chemicals.
Industrial dischargers with toxic parameters in the discharge; that may alter production processes; or facilities which
handle large quantities of toxic substances or substances that are toxic in large amounts.

Part V. SAMPLING AND REPORTING REQUIREMENTS:

See Standard Conditions Part I attached at the end of this permit and fully incorporated within.

ELECTRONIC DISCHARGE MONITORING REPORT (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 converting to an electronic data reporting system. This final rule requires regulated entities and state and federal regulators to use information technology to electronically report data required by the National Pollutant Discharge Elimination System (NPDES) permit program instead of filing paper reports. To comply with the federal rule, the Department is requiring all permittees to begin submitting discharge monitoring data and reports online.

Per 40 CFR 127.15 and 127.24, permitted facilities may request a temporary waiver for up to 5 years or a permanent waiver from electronic reporting from the Department. To obtain an electronic reporting waiver, a permittee must first submit an eDMR Waiver Request Form: http://dnr.mo.gov/forms/780-2692-f.pdf. A request must be made for each facility. If more than one facility is owned or operated by a single entity, then the entity must submit a separate request for each facility based on its specific circumstances. An approved waiver is non-transferable.

The Department must review and notify the facility within 120 calendar days of receipt if the waiver request has been approved or rejected [40 CFR 124.27(a)]. During the Department review period as well as after a waiver is granted, the facility must continue submitting a hard-copy of any reports required by their permit. The Department will enter data submitted in hard-copy from those facilities allowed to do so and electronically submit the data to the EPA on behalf of the facility.

✓ The permittee/facility is currently using the eDMR data reporting system.

SAMPLING FREQUENCY JUSTIFICATION:

Sampling and reporting frequency was generally retained from previous permit. 40 CFR 122.45(d)(1) indicates all continuous discharges shall be permitted with daily maximum and monthly average limits. Sampling frequency for stormwater-only outfalls is typically quarterly even though BMP inspection occurs monthly. The facility may sample more frequently if additional data is required to determine if best management operations and technology are performing as expected.

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 should have 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, and volatile organic samples.

SUFFICIENTLY SENSITIVE ANALYTICAL METHODS:

Please review Standard Conditions Part 1, section A, number 4. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 and/or 40 CFR 136 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 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 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 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 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 permittee is responsible for working with their contractors to ensure the analysis performed is sufficiently sensitive. 40 CFR 136 lists the approved methods accepted by the Department. Table A at 10 CSR 20-7.031 shows water quality standards.

Part VI. 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:

The Department of Natural Resources is currently undergoing a synchronization process for operating permits. Permits are normally issued on a five-year term, but to achieve synchronization many permits will need to be issued for less than the full five years allowed by regulation. The intent is that all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. http://dnr.mo.gov/env/wpp/cpp/docs/watershed-based-management.pdf. This will allow further streamlining by placing multiple permits within a smaller geographic area on public notice simultaneously, thereby reducing repeated administrative efforts. This will also allow the Department to explore a watershed based permitting effort at some point in the future. Renewal applications must continue to be submitted within 180 days of expiration, however, in instances where effluent data from the previous renewal is less than three years old, that data may be re-submitted to meet the requirements of the renewal application. If the permit provides a schedule of compliance for meeting new water quality based effluent limits beyond the expiration date of the permit, the time remaining in the schedule of compliance will be allotted in the renewed permit.

✓ This permit will remain synchronized by expiring the end of the 3^{rd} quarter, 2023.

PUBLIC NOTICE:

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. http://dnr.mo.gov/env/wpp/permits/pn/index.html Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality 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 permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general 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 wanting to submit comments regarding this proposed operating permit, then 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.

The Public Notice period for this operating permit was from 05/25/2018 to 06/25/2018. No responses were received.

DATE OF FACT SHEET: 04/18/2018

COMPLETED BY:

AMBERLY SCHULZ, ENVIRONMENTAL SPECIALIST MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM OPERATING PERMITS SECTION - INDUSTRIAL UNIT (573) 751-8049 Amberly.schulz@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.

- 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.
- 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.
- 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.

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:
 - 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.
 - Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - ii. Any upset which exceeds any effluent limitation in the permit.
 - 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.
- 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
- 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.
- Monitoring results shall be reported to the Department no later than the 28th day of the month following the end of the reporting period.

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.

b. Notice.

- 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:
 - 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
 - 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:
 - 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.
- Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

Section D – Administrative Requirements

- 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 II 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.
- 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 permittees 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.)
- 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.
- 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.

- 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;
 - Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
 - 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.
- 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:
 - 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;
 - Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - 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.

- 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 noncompliance 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.

AP29547

RECEIVED



FOR AGENCY USE ONLY

CHECK NUMBER

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

BATE BECEIVED

FEE SUBMITTED

Note	>	PLEASE READ THE ACCOMPANYING INSTR	RUCTIONS BEFORE COMPLETING	THIS FORM	1.
1.	This	application is for:			
		An operating permit for a new or unpermitted	ed facility:		
		Please indicate the original Construction Pe	ermit #		
	1	An operating permit renewal:			
		Please indicate the permit # MO- 0135763	Expiration Date		
	П	An operating permit modification:			
	_	Please indicate the permit # MO	Modification Reason:		
1.1	Is the	e appropriate fee included with the application? (S	See instructions for appropriate fee)	YES	□NO
2. FACI					
NAME					NUMBER WITH AREA CODE
Wyeth F	Holding	IS LLC		(908) 901 FAX	1-/395
				10000	
ADDRESS			CITY	STATE	ZIP CODE
3150 His		JJ	Palmyra	МО	63461
3. OWN	IEK		EMAIL ADDRESS	TELEPHONE	NUMBER WITH AREA CODE
	Ioldina		NA	(908) 90	
Wyeth F	TOIGITIE	IS LLC	INA.	FAX	
ADDRESS	(MAII IN		CITY	STATE	ZIP CODE
100 Rou			Peapack	NJ	07977
3.1		uest review of draft permit prior to public noti			
		NG AUTHORITY		R. Marin	She a principality of
NAME	284000000000000000000000000000000000000	Section along the state of the section of the secti	EMAIL ADDRESS		NUMBER WITH AREA CODE
Wyeth H	Holding	s LLC	NA	(908) 90°	1-/395
				1744	
ADDRESS	(MAILING	6)	CITY	STATE	ZIP CODE
100 Rou		OBJUDICA SECUL	Peapack	NJ	07977
5. OPE	RATO	R	L OFFICIATE AUMOND	T TELEBRONI	E NUMBER WITH AREA CODE
NAME			CERTIFICATE NUMBER	TELEPHONI	E NOMBER WITH AREA CODE
				FAX	
ADDDECO	/3.4.5.II 13.II		CITY	STATE	ZIP CODE
ADDRESS	(IVIAILING	3)	Citi	Olane.	2 0002
6. FACI	ILITY	CONTACT			STREET, STREET
NAME			TITLE	TELEPHON	E NUMBER WITH AREA CODE
				FAW	
			E-MAIL ADDRESS	FAX	
7. ADD	ITION	AL FACILITY INFORMATION		THE PERSON NAMED IN	
			L 4 - (f)		
7.1	Lega	al Description of Outfalls. (Attach additional s	sneets if necessary.)		
	001	<u>sw</u> ½ <u>NE</u> ½ Sec <u>15</u>		Mario	County
	UTM	Coordinates Easting (X): Nor For Universal Transverse Mercator (UTM), Zone 1	thing (Y):	1002 /NA	D03)
	002		T R R		County
	HTM	Coordinates Easting (X): Nor	thing (Y):	_	odding
	003		T R		County
		Coordinates Easting (X):	thing (Y):	-	
	004		thing (Y):R		County
		Coordinates Easting (X): Nor	thing (Y):	-	
7.2		ary Standard Industrial Classification (SIC) and Fa		ification Sys	stem (NAICS) Codes
1.2	001	- SIC 9512 and NAICS 924120	002 – SIC a	nd NAICS	(
	003	- SIC 9512 and NAICS 924120 and NAICS	004 – SIC a	nd NAICS	

8.	ADDITIONAL FORMS AND MAPS NECESSARY TO COM (Complete all forms that are applicable.)	MPLETE THIS	APPLICATION		
Α.	Is your facility a manufacturing, commercial, mining or silvice of the silving of	culture waste	treatment facility?	YES 🗹	№ □
	(2F is the U.S. EPA's Application for Storm Water Discharg	ges Associate	with Industrial Activ	rity.)	
В.	Is application for storm water discharges only? If yes, complete Form C or 2F.			YES 🗆	NO 🗹
C.	Is your facility considered a "Primary Industry" under EPA g If yes, complete Forms C or 2F and D.	guidelines:		YES 🗆	NO 🗹
D.	Is wastewater land applied? If yes, complete Form I.			YES 🗆	NO 🗹
E.	Is sludge, biosolids, ash or residuals generated, treated, stell yes, complete Form R.	ored or land a	pplied?	YES 🗆	NO 🗹
F.	If you are a Class IA CAFO, please disregard part D and E Nutrient Management Plan.	of this section	. However, please	attach any revis	ion to your
F.	Attach a map showing all outfalls and the receiving stream	at 1" = 2,000'	scale.		
9.	ELECTRONIC DISCHARGE MONITORING REPORT (eD				
and more consister visit http	CFR Part 127 National Pollutant Discharge Elimination Systemation shall be submitted by the permittee via an electronic ent set of data. One of the following must be checked in co://dnr.mo.gov/env/wpp/edmr.htm to access the Facility Particular than the completed and submitted with this permit application	system to ensorder for this icipation Packa	sure timely, comple application to be age.	te, accurate, and considered con	nationally
	u have previously submitted the required documentation to p				
- You	u have submitted a written request for a waiver from electron	nic reporting.	See instructions for	further informati	on regarding
waivers 10.	DOWNSTREAM LANDOWNER(S) Attach additional sheet	ts as necessar	y. See Instructions	3.	
NAME	(PLEASE SHOW LOCATION ON MAP. SEE 8.D ABOVE)).			
None, pe	ermitted facility only				
ADDRESS NA		CITY NA		NA STATE	ZIP CODE NA
11.	I certify that I am familiar with the information contained in a information is true, complete and accurate, and if granted to all rules, regulations, orders and decisions, subject to any I Water Law to the Missouri Clean Water Commission.	his permit, I ag	gree to abide by the eal available to app	Missouri Clean licant under the	Water Law and Missouri Clean
	D OFFICIAL TITLE (TYPE OR PRINT)			EPHONE NUMBER WIT 8) 901-7395	H AREA CODE
SIGNATUR	Donohue			E SIGNED	
MO 780-14	mer Donahus		Mai	rch 15, 2018	
	BEFORE MAILING, PLEASE ENSURE ALL SECTION IF APPLICABLE, Submittal of an incomplete application ma	ARE INCLU	IDED.		FORMS,
	HAVE YOU	INCLUDED:			
	 □ Appropriate Fees? □ Map at 1" = 2000' scale? □ Signature? □ Form C or 2F, if applicable? □ Form D, if applicable? 		Form I (Irrigation Form R (Sludge Revised Nutrien applicable?), if applicable?	•

INSTRUCTIONS FOR COMPLETING FORM A - APPLICATION FOR NONDOMESTIC PERMIT

Check which option is applicable. Do not check more than one item. Nondomestic permit refers to permits issued by the 1. Department of Natural Resources' Water Protection Program for all nondomestic wastewater treatment facilities, including all industry, stormwater, and Class IA Concentrated Animal Feeding Operations (CAFO). This includes all nondomestic wastewater treatment facilities that incorporate domestic wastewater into the operating permit. **OPERATING PERMIT FEES** 1.1

If the application is for a site-specific permit re-issuance, send no fees. You will be invoiced separately by the

department.

Discharges covered by section 644.052.4 RSMo. (Primary or Categorical Facilities)

\$3,500 for a design flow under 1 mgd

\$5,000 for a design flow of 1 mgd or more

A. Discharges covered by section 644.052.5 RSMo. (Secondary or Noncategorical Facilities).

\$1,500 for a design flow under 1 million gallons per day (mpg)

\$2,500 for a design flow of 1 mgd or more

SITE-SPECIFIC STORMWATER DISCHARGE FEES

\$1,350 for a design flow under 1 mgd

B. \$2,350 for a design flow of 1 mgd or more

CAFO OPERATING PERMIT FEES

\$5,000 for site-specific permit (Class IA)

OPERATING PERMIT MODIFICATIONS are subject to the following fees:

A. Major Modifications - 25 percent of annual fee.

Minor Modifications (in accordance with 40 CFR 122.63, including transfers) - \$100 B.

Note: Facility name and address changes where owner, operator and continuing authority remain the same are not considered transfers.

Incomplete permit applications and/or related engineering documents will be returned by the department if they are not completed in the time frame established in a comment letter from the department to the owner. Permit fees for returned applications shall be forfeited. Permit fees for applications being processed by the department that are withdrawn by the applicant shall be forfeited.

- Facility Provide the name by which this facility is known locally. Example: Southwest Sewage Treatment Plant, Country Club 2. Mobile Home Park, etc. Also include the street address or location of the facility. If the facility lacks a street name or route number, give the names of the closest intersection, highway, county road, etc.
- Owner Provide the legal name and address of owner. 3.
- Prior to submitting a permit to public notice, the department shall provide the permit applicant 15 days to review the draft 3.1 permit for nonsubstantive drafting errors. In the interest of expediting permit issuance, permit applicants may waive the opportunity to review draft permits prior to public notice. Check YES to review the draft permit prior to public notice. Check NO to waive the process and expedite the permit.
- Continuing Authority Permanent organization that will serve as the continuing authority for the operation, maintenance and 4. modernization of the facility. The regulatory requirement regarding continuing authority is available at http://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf or contact the appropriate Department of Natural Resources regional office.
- Operator Provide the name, certificate number and telephone number of the person operating the facility. 5.
- Provide the name, title and work telephone number of a person who is thoroughly familiar with the operation of the facility and 6. with the facts reported in this application and who can be contacted by the department, if necessary.
- An outfall is the point at which wastewater is discharged. Outfalls should be given in terms of the legal description of the 7.1 facility. Global Positioning System, or GPS, is a satellite-based navigation system. The department prefers that a GPS receiver is used at the outfall pipe and the displayed coordinates submitted. If access to a GPS receiver is not available, please use a mapping system to approximate the coordinates; the department's mapping system is available at www.dnr.mo.gov/internetmapviewer/.
- List only your primary Standard Industrial Classification, or SIC, and North American Industry Classification System code for 7.2 each outfall. The SIC system was devised by the U.S. Office of Management and Budget to cover all economic activities. To find the correct SIC code, an applicant may check his or her unemployment insurance forms or contact the Missouri Division of Employment Security, 573-751-3215. The primary SIC code is that of the operation that generates the most revenue. If this information is not available, the number of employees or, secondly, production rate may be used to determine your SIC code. Additional information for Standard Industrial Codes can be found at www.osha.gov/pls/imis/sicsearch.html and for the North American Industry Classification System at www.census.gov/naics or contact the appropriate Department of Natural Resources regional office.
- If you answer yes to A, B, C, D, or E, then you must complete and file the supplementary form(s) indicated. A U.S. Geological 8. Survey 1" = 2,000' scale map must be submitted with the permit application showing all outfalls, the receiving stream and the location of the downstream property owners. This type of map is available at www.dnr.mo.gov/internetmapviewer/ or from the Missouri Department of Natural Resources' Geological Survey in Rolla at 573-368-2125.

INSTRUCTIONS FOR COMPLETING FORM A - APPLICATION FOR NONDOMESTIC PERMIT (CONTINUED)

9. Electronic Discharge Monitoring Report (eDMR) Submission System – Visit the eDMR site at http://dnr.mo.gov/env/wpp/edmr.htm and click on the "Facility Participation Package" link. The eDMR Permit Holder and Certifier Registration Form and information about the eDMR system can be found in the Facility Participation Package.

Waivers to electronic reporting may be granted by the department per 40 CFR 127.15 under certain, special circumstances. A written request must be submitted to the Department for approval. Waivers may be granted to facilities owned or operated by:

- A. members of religious communities that choose not to use certain technologies or
- B. permittees located in areas with limited broadband access. The National Telecommunications and Information Administration (NTIA) in collaboration with the Federal Communications Commission (FCC) have created a broadband internet availability map: http://www.broadbandmap.gov/. Please contact the department if you need assistance.
- 10. Please provide the name and address of the first downstream landowner, different from that of the permitted facility, through whose property the discharge will flow. Also, please indicate the location on the map. For discharges that leave the permitted facility and flow under a road or highway, or along the right-of-way, the downstream property owner is the landowner that the discharge flows to after leaving the right-of-way. For no discharge facilities, provide this information for the location where discharge would flow if there was one. For land application sites, include the owners of the land application sites and all adjacent landowners.
- 11. Signature All applications must be signed as follows and the signature must be original:
 - A. For a corporation, by an officer having responsibility for the overall operation of the regulated facility or activity or for environmental matters.
 - B. For a partnership or sole proprietorship, by a general partner or the proprietor.
 - C. For a municipal, state, federal or other public facility, by either a principal executive officer or by an individual having overall responsibility for environmental matters at the facility.

This completed form, along with the applicable permit fees, should be submitted to the Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102-0176. Submittal of an incomplete application may result in the application being returned. A map of the department's regional offices with addresses and phone numbers can be viewed at www.dnr.mo.gov/regions/ro-map.pdf. If there are any questions concerning this form, contact the appropriate regional office or the Department of Natural Resources' Water Protection Program, Operating Permits Section at 800-361-4827 or 573-751-6825.

For More Information

Missouri Department of Natural Resources Water Protection Program P.O. Box 176 Jefferson City, MO 65102-0176 800-361-4827 or 573-751-1300 www.dnr.mo.gov/env/wpp/index.html

MO 780-1479 (09-16)



MO 780-1514 (06-13)

MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM, WATER POLLUTION BRANGAR 1 9 2018

FORM C – APPLICATION FOR DISCHARGE PERMIT –

MANUFACTURING, COMMERCIAL, MINING,

SILVICULTURE OPERATIONS, PROCESS AND STORMWATER

OK AGENCT USE UNLT	FOR AGENCY USE ONL'
--------------------	---------------------

CHECK NO.

DATE RECEIVED

FEE SUBMITTED

PAGE 1

NOTE: DO NOT ATTEMPT TO COMPLETE THIS FORM BEFOR	RE READING THE ACCOMPANYING INSTRUCTIONS	
1.00 NAME OF FACILITY		
Wyeth Holdings LLC, Groundwater Treatment System		
1.10 THIS FACILITY IS NOW IN OPERATION UNDER MISSOURI OPERATING PERMIT NUMBE MO-0135763	R	
1.20 THIS IS A NEW FACILITY AND WAS CONSTRUCTED UNDER MISSOURI CONSTRUCTION	N PERMIT NUMBER (COMPLETE ONLY IF THIS FACILITY DOES NOT HAVE AN OPERATING	G
PERMIT).		
NA		
2.00 LIST THE STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES APPLICABLE TO YOU		
A. FIRST9512 Groundwater Treatment System	B. SECOND	
C. THIRD	D. FOURTH	
2.10 FOR EACH OUTFALL GIVE THE LEGAL DESCRIPTION.		
OUTFALL NUMBER (LIST) SW 1/4 NW 1/4 SEC 15	T 58N SW Marion COUN	NTV
OUTFALL NUMBER (LIST)1/41/4 SEC	1 R	NI I
2.20 FOR EACH OUTFALL LIST THE NAME OF THE RECEIVING WATER		
OUTFALL NUMBER (LIST)	RECEIVING WATER	
001	Unnamed ditch to the Mississippi River	
2.30 BRIEFLY DESCRIBE THE NATURE OF YOUR BUSINESS	1	
groundwater>RW1v		
groundwater>RW2>Combined Influent>Air Stripper	1>Air Stripper 2>Outfall 001	
groundwate r>RW3^		
Groundwater is extracted by three Recovery Wells (RW). The combined influent goes through two air strippers (in series).		
The treated groundwater is discharged into Outfall 001.		

- A. 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 flows between intakes, operations, treatment units, public sewers and outfalls. If a water balance cannot by 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.
- B. For each outfall, provide a description of 1. All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water and storm water runoff. 2. The average flow contributed by each operation. 3. The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO.	2. OPERATION(S)	CONTRIBUTING FLOW	3. TREA	TMENT
(LIST)	A. OPERATION (LIST)	B. AVERAGE FLOW (INCLUDE UNITS) (MAXIMUM FLOW)	A. DESCRIPTION	B. LIST CODES FROM TABLE A
001	Groundwater Treatment Syste	0.216 MGD	Air Stripping	1-K
114,34				
			7	
			7	
80-1514 (06-13)			,	PAGE

				TO SECTION 2		4. F	LOW		
TO CONTRACTOR			3. FRE	QUENCY	A. FLOW RA	ATE (in mgd)	B. TOTAL VOLU		
OUTFALL NUMBER (list)	2. OPERATION(S) CONTRI	BUTING FLOW (list)	A. DAYS PER WEEK (specify average)	B. MONTHS PER YEAR (specify average)	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	4. LONG TERM DAILY	3. MAXIMUM AVERAGE	C. DURATIO (in days)
0 MAXIMUM P	RODUCTION								
B. ARE THE YES	LIMITATIONS IN THE APPLICABLE	NO (GO TO SECTION 2.6 EFFLUENT GUIDELINE NO (GO TO SECTION 2.6 QUANTITY THAT REPRE	60) S EXPRESSED IN 60) SENTS AN ACTUA	TERMS OF PRO	DUCTION (OF OTI	HER MEASURE (OF OPERATION)?	PRESSED IN TH	E TERMS
		1. MA	XIMUM QUANTITY						FECTED
QUANTITY PE	R DAY B. UNITS OF MEASUR	RE	C. OF		DUCT, MATERIAL pecify)	ETC.			FALLS Il numbers)
O IMPROVEME	NOW REQUIRED BY ANY FEDER OF WASTEWATER TREATMENT I N? THIS INCLUDES, BUT IS NOT NS, COURT ORDERS AND GRANT	EQUIPMENT OR PRACTIC LIMITED TO, PERMIT CO OR LOAN CONDITIONS	CES OR ANY OTHI NDITIONS, ADMIN	ER ENVIRONME	NTAL PROGRAMS	THAT MAY AFF	ECT THE DISCHAR	GES DESCRIBE	D IN THIS LETTERS,
OPERATION APPLICATIO STIPULATIO	OMPLETE THE FOLLOWING TABLE	() Marie () () ()						4. FINAL COMP	
OPERATION APPLICATIO STIPULATIO YES (CO	OMPLETE THE FOLLOWING TABLE	2. AFFECTED O	UIFALLS	2	DDIEC DESCRIPT	TON OF PROJEC	T.		LIANCE DATE
OPERATION APPLICATIO STIPULATIO YES (CO		2. AFFECTED O	UTFALLS	3.	BRIEF DESCRIPT	TION OF PROJEC			PLIANCE DATE B. PROJECTE

3.00 INTAKE AND EFFLUENT CHARACTERISTICS

A. & B. SEE INSTRUCTIONS BEFORE PROCEEDING – COMPLETE ONE TABLE FOR EACH OUTFALL – ANNOTATE THE OUTFALL NUMBER IN THE SPACE PROVIDED. NOTE: TABLE 1 IS INCLUDED ON SEPARATE SHEETS NUMBERED FROM PAGE 6 TO PAGE 7.

C. USE THE SPACE BELOW TO LIST ANY OF THE POLLUTANTS LISTED IN PART B OF THE INSTRUCTIONS, WHICH YOU KNOW OR HAVE REASON TO BELIEVE IS DISCHARGED OR MAY BE DISCHARGED FROM ANY OUTFALL. FOR EVERY POLLUTANT YOU LIST, BRIEFLY DESCRIBE THE REASONS YOU BELIEVE IT TO BE PRESENT AND REPORT ANY ANALYTICAL DATA IN YOUR POSSESSION.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
1,2-Dichloroethane	Manufacturing Activities		
Chlorobenzene	Manufacturing Activities		
1,1,2-Trichloroethane	Manufacturing Activities		
Vinyl Chloride	Manufacturing Activities		
Tetrachloroethene	Manufacturing Activities		
Trichloroethene	Manufacturing Activities		
Benzene	Manufacturing Activities		
			- 1

3.10 BIOLOGICAL TOXICITY TESTING DATA DO YOU HAVE ANY KNOWLEDGE OF DISCHARGES OR ON RECEIVING WAT		L TEST FOR ACUTE OR CHRONIC TOXICITY HAS B	EEN MADE ON ANY OF YOUR
YES (IDENTIFY THE TEST(S) AND D		NO (GO TO 3.20)	
Chronic Whole Effluent Toxicity	<u> </u>		
A Chronic Whole Effluent Toxic aquatic life by itself, in combina	city test is a quantifiable method tion with or through synergistic	of determining of discharge from a fa responses when mixed with receiving	cility may be causing toxicity to stream water.
3.20 CONTRACT ANALYSIS INFORMATION WERE ANY OF THE ANALYSES REPOR	TED PERFORMED BY A CONTRACT LABOR.	ATORY OR CONSULTING FIRM?	
YES (LIST THE NAME, ADDRESS AN	ND TELEPHONE NUMBER OF AND POLLUTA	NTS ANALYZED BY EACH SUCH LABORATORY OR	FIRM BELOW.) NO (GO TO 3.30)
A. NAME	B. ADDRESS	C. TELEPHONE (area code and numbe	n D. POLLUTANTS ANALYZED (list)
Pace Analytical Services, Inc.	9608 Loiret Boulevard Lenexa, KS 66219	913-559-5665	1,2-Dichloroethane, Chrorobenzene, 1,1,2-Trichloroethane, Vinyl Chloride, Tetrachloroethene, Trichloroethene, Benzene
			Chronic NPDES Whole Effluent Toxcity
THIS APPLICATION AND ALL ATTA FOR OBTAINING THE INFORMATI	ACHMENTS AND THAT, BASED O ON, I BELIEVE THAT THE INFORM	EXAMINED AND AM FAMILIAR WITH TH IN MY INQUIRY OF THOSE INDIVIDUAL MATION IS TRUE, ACCURATE AND CON TION, INCLUDING THE POSSIBILITY O	S IMMEDIATELY RESPONSIBLE MPLETE, I AM AWARE THAT THERE
NAME AND OFFICIAL TITLE (TYPE OR PRINT	")	TELEPHON	NE NUMBER WITH AREA CODE
Thomas Donohue		(908) 9	01-7395
SIGNATURE (SEE INSTRUCTIONS) MO 780-1514 (06-13)	l	DATE SIGN 03/15/2	

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet (Use the same format) instead of completing these pages.
SEE INSTRUCTIONS

OUTFALL NO.

FORM C TABLE 1 FOR 3.00 ITEM A AND B

001

INTAKE AND EFFLUENT CHARACTERISTICS

B. NO. OF ANALYSES 4. INTAKE (optional) A. LONG TERM AVRG. VALUE (2) MASS (1) CONCENTRATION VALUE VALUE VALUE B. MASS 3. UNITS (specify if blank) STANDARD UNITS S S See instructions for additional details. A. CONCENTRATION MGD D. NO. OF ANALYSES ~ (2) MASS PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. C. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION VALUE 0.216 VALUE VALUE 2. EFFLUENT B. MAXIMUM 30 DAY VALUE (if available) (2) MASS MAXIMUM (1) CONCENTRATION MINIMUM VALUE VALUE VALUE 0.09 (2) MASS A. MAXIMUM DAILY VALUE MAXIMUM 8.3 (1) CONCENTRATION Y Y ¥ Y ¥ MA MINIMUM 8.0 VALUE VALUE Chemical Oxygen Demand D. Total Suspended Solids (TSS) H. Temperature (summer) C. Total organic Carbon (TOC) A. Biochemical Oxygen Demand (BOD) 1. POLLUTANT G. Temperature E. Ammonia (as N) F. Flow (winter) B. Cher (COD) Hd .

PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark column 2A for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

	2. MAF	2. MARK "X"			6	3. EFFLUENT				4. UNITS	IITS	5. INTA	5. INTAKE (optional)	
1. POLLUTANT AND CAS NUMBER	4	es i	A. MAXIMUM DAILY VALUE	Y VALUE	B. MAXIMUM 30 DAY VALUE (if available)	AAY VALUE	C. LONG TERM AVRG. VALUE (if available)	RG. VALUE	D. NO. OF	A. CONCEN-	994	A. LONG TERM AVRG. VALUE		B. NO. OF
(if available)	PRESENT	ABSENT	CONCENTRATION (2) MASS	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	. E. S.	CONCENTRATION (2) MASS	(2) MASS	ANALYSES
CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS	CONVENTIC	NAL POL	LLUTANTS											
A. Bromide (24959-67-9)		×												
B. Chlorine, Total Residual		×												
C. Color		×												
D. Fecal Coliform	100	×												
E. Fluoride (16984-48-8)		×												
F. Nitrate - Nitrate (as N)		×												
MO 780-1514 (06-13)														PAGE 6

					•					e i		5	מי ווייות בי ומשמיותי	
1. POLLUTANT AND CAS NUMBER (if available)	A.	B. BCI ICVED	A. MAXIMUM DAILY VALUE	LY VALUE	B. MAXIMUM 30 DAY VALUE (if available)	AY VALUE	C. LONG TERM AVRG. VALUE (if available)	/RG. VALUE	D. NO. OF	A. CONCEN-	000	A. LONG TERM AVRG. VALUE	VRG. VALUE	B. NO. OF
	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	9	(1) CONCENTRATION	(2) MASS	ANALYSES
G. Nitrogen, Total Organic (as N)		×												
H. Oil and Grease		×												
I. Phosphorus (as P), Total (7723-14-0)		×												
J. Sulfate (as SO ⁴) (14808-79-8)		×												
K. Sulfide (as S)		×												
L. Sulfite (as SO ³) (14265-45-3)		×												
M. Surfactants		×												
N. Aluminum, Total (7429-90-5)		×												
O. Baríum, Total (7440-39-3)		×												
P. Boron, Total (7440-42-8)		×												
Q. Cobalt, Total (7440-48-4)		×												
R. Iron, Total (7439-89-6)	×													
S. Magnesium, Total (7439-95-4)		×												
T. Molybdenum, Total (7439-98-7)		×												
U. Manganese, Total(7439-96-5)		×												
V. Tin, Total (7440-31-5)		×					Α.							
W. Titanium, Total		×												

	2. MAI	2. MARK "X"			6	3. EFFLUENT				4. UNITS	ITS	5. INTA	5. INTAKE (optional)	
1. POLLUTANT AND CAS NUMBER	A.		A. MAXIMUM DAILY VALUE	LY VALUE	B. MAXIMUM 30 DAY VALUE (if available)	AY VALUE	C. LONG TERM AVRG. VALUE	RG. VALUE	D. NO. OF	A. CONCEN-	MASS A	A. LONG TERM AVRG. VALUE		B. NO. OF
(aldaliable)	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	0	(1) CONCENTRATION	(2) MASS	ANALYSES
METALS, AND TOTAL PHENOLS	STOP													
1M. Antimony, Total (7440-36-9)		×												
2M. Arsenic, Total (7440-38-2)		×												
3M. Beryllium, Total (7440-41-7)		×												
4M. Cadmium, Total (7440-43-9)		×												
5M. Chromium III (16065-83-1)		×												
6M. Chromium VI (18540-29-9)		×												
7M. Copper, Total (7440-50-8)		×												
8M. Lead, Total (7439-92-1)		×												
9M. Mercury, Total (7439-97-6)		×												
10M. Nickel, Total (7440-02-0)		×												
11M. Selenium, Total (7782-49-2)		×												
12M. Silver, Total (7440-22-4)		×												
13M. Thallium, Total (7440-28-0)		×												
14M. Zinc, Total (7440-66-6)		×												
15M. Cyanide, Amenable to Chlorination		×												
16M. Phenols, Total		×												
RADIOACTIVITY														
(1) Alpha Total		×												
(2) Beta Total		×												
(3) Radium Total		×												
(4) Radium 226 Total		×												
MO 780-1514 (06-13)														PAGE 8

INSTRUCTIONS FOR FILLING OUT APPLICATION FOR DISCHARGE PERMIT FORM C – MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS.

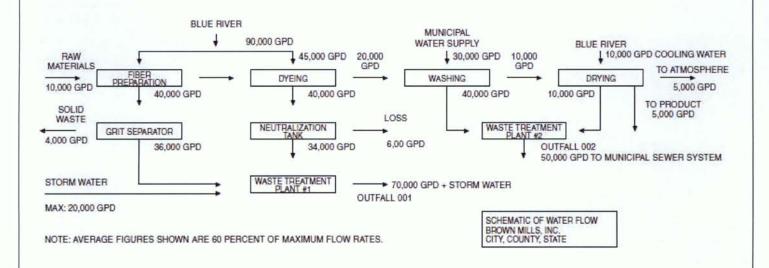
All blanks must be filled in when the application is submitted to the appropriate regional office (see map). The form must be signed as indicated.

This application is to be completed only for wastewater facilities with a discharge. Include any facility with possibility of discharge, even if normally there is no discharge. If this form is not adequate for you to describe your existing operation, then sufficient information should be attached so that an evaluation of the discharge can be made.

- 1.00 Name of Facility By what title or name is this facility known locally?
- 1.10 and 1.20 Self-explanatory.
 - 2.00 List in descending order of significance the four digit Standard Industrial Classification (SIC) codes that best describe your facility in terms of the principal products or services you produce or provide. Also, specify each classification in words

SIC code numbers are descriptions that may be found in the "Standard Industrial Classification Manual" prepared by the Executive Office of the President, Office of Management and Budget, that is available from the Government Printing Office, Washington, D.C. Use the current edition of the manual. If you have any questions concerning the appropriate SIC code for your facility, contact the Missouri Department of Natural Resources Regional office in your area (see map).

- 2.10 Point of discharge should be given in terms of the legal description of the waste treatment plant, location or sufficient information so that it may be located.
- 2.20 Receiving Water the name of the stream to which the discharge is directed and any subsequent tributary until a continuous flowing stream is reached.
- 2.30 Self-explanatory.
- 2.40 A. The line drawing should show generally the route taken by water in your facility from intake to discharge. Show all operations contributing wastewater, including process and production areas, sanitary flows, cooling water and storm water runoff. You may group similar operations into a single unit labeled to correspond to the more detailed listing. The water balance should show average and maximum flows. Show all significant losses of water to products, atmosphere, discharge and public sewer systems. You should use actual measurements whenever available; otherwise, use your best estimate. An example of any acceptable line drawing appears below.



B. List all sources of wastewater to each outfall. Operations may be described in general terms (for example, "dye-making reactor" or a distillation tower"). You may estimate the flow contributed by each source if no data is available, and for storm water, you may use any reasonable measure of duration, volume or frequency. For each treatment unit, indicate its size, flow rate and retention time, and describe the ultimate disposal of any solid or liquid wastes not discharged. Treatment units should be listed in order and you should select the proper code from Table A to fill in column 3B for each treatment unit. Insert "XX" into column 3B if no code corresponds to a treatment unit you list.

TABLE A - CODES FOR TREATMENT UNITS

PHYSICAL TREATMENT PROCESSES

1-A	Ammonia Stripping	1-M	Grit Removal
1-B		1-N	
1-C	Diatomaceous Earth Filtration	1-0	
1-D	Distillation	1-O	Moving Red Filter
1-E		1-P	
1-F	Electrodialysis Evaporation	1-Q 1-R	
1-G		1-K	Rapid Sand Filtration
1-G 1-H	Floculation	1-5 1-T	
1-D 1-I	Flotation		
	Foam Fractionation	1-U	Sedimentation (Settling)
1-J		1-V	Slow Sand Filtration
1-K		1-W	Solvent Extraction
1-L	Grinding (Comminutors)	1-X	Sorption
	CHEMICAL TREATME	NT PROCESS	SES
2-A		2-G	
2-B	Chemical Oxidation	2-H	
2-C		2-1	Electrochemical Treatment
2-D		2-J	lon Exchange
2-E	Dechlorination	2-K	Neutralization
2-F	Disinfection (Chlorine)	2-L	Reduction
	BIOLOGICAL TREATME	ENT PROCES	SES
3-A	Activated Sludge	3-E	Pre-Aeration
3-B	Aerated Lagoons	3-F	Spray Irrigation/Land Application
3-C	Anaerobic Treatment	3-G	Stabilization Ponds
3-D	Nitrification-Denitrification	3-H	Trickling Filtration
	OTHER PROC	ESSES	
4-A		4-C	
4-B	Ocean Discharge Through Outfall	4-D	Underground Injection
	SLUDGE TREATMENT AND D	ISPOSAL PR	
5-A		5-M	
5-B		5-N	Heat Treatment
5-C	Belt Filtration	5-O	
5-D		5-P	Land Application
5-E		5-Q	Landfill
5-F		5-R	Pressure Filtration
5-G	Composting	5-S	
5-H	Drying Beds	5-T	
5-H		5-1 5-U	
5-I 5-J		5-V	74C9/3 = 3750
5-5 5-K			
	Crowity Thickening	5-W	
5-L	Gravity Thickening		

- 2.40 C. A discharge is intermittent unless it occurs without interruption during the operating hours of the facility, except for infrequent shutdowns for maintenance, process changes or other similar activities. A discharge is seasonal if it occurs only during certain parts of the year. Fill in every applicable column in this item for each source of intermittent or seasonal discharges. Base your answers on actual data whenever available; otherwise, provide your best estimate. Report the highest daily value for flow rate and total volume in the "Maximum Daily" columns. Report the average of all daily values measures during days when discharge occurred within the last year in the "Long Term Average" columns.
- 2.50 A. All effluent guidelines promulgated by EPA appear in the Federal Register and are published annually in 40 CPR Subchapter N. A guideline applies to you if you have any operations contributing process wastewater in any subcategory covered by BPT, BCT, or BAT guidelines. If you are unsure whether you are covered by a promulgated effluent guideline, check with your Missouri Department of Natural Resources' Regional Office. You must check yes if an applicable effluent guideline has been promulgated, even if the guideline limitations are being contested in court. If you believe that a promulgated effluent guideline has been remanded for reconsideration by a court and does not apply to your operations, you may check no.
 - B. An effluent guideline is expressed in terms of production (or other measure of operation) if the limitations are expressed as mass of pollutant per operational parameter; for example, "pounds of BOD per cubic foot of logs from which bark is removed," or "pounds of TSS per megawatt hour of electrical energy consumed by smelting furnace." An example of a guideline not expressed in terms of a measure of operation is one which limits the concentration of pollutants.
 - C. This item must be completed only if you checked yes to item B. The production information requested here is necessary to apply effluent guidelines to your facility and you may not claim it as confidential. However, you do not have to indicate how the reported information was calculated.

Report quantities in the units of measurement used in the applicable effluent guideline. The figures provided must be a measure of actual operation over a one month period, such as the production for the highest month during the last twelve months, or the monthly average production for the highest year of the last five years, or other reasonable measure of actual operation, but may not be based on design capacity or on predictions of future increases in operation.

- 2.60 A. If you check yes to this question, complete all parts of the chart, or attach a copy of any previous submission you have made containing the same information.
 - B. You are not required to submit a description of future pollution control projects if you do not wish to or if none is planned.
 - 3.00 These items require you to collect and report data on the pollutants discharged from each of your outfalls. Each part of this item addresses a different set of pollutants and must be completed in accordance with the specific instructions for that part. The following general instructions apply to the entire item.

GENERAL INSTRUCTIONS. Part A requires you to report at least one analysis for each pollutant. Part B requires you to mark "X" in either the "Believe Present" column or the "Believe Absent" column (column 2A or 2B, Part B) based on you best estimate, and test for those which you believe to be present. Part C requires you to list any of a group of pollutants which you believe to be present, with a brief explanation of why you believe it to be present. (See specific instructions on the form and below Parts A through C).

Base your determination that a pollutant is present in or absent from your discharge on your knowledge of your raw materials, maintenance chemicals, intermediate and final products and byproducts, and any previous analyses known to you of your effluent or of any similar effluent. (For example, if you manufacture pesticides, you should expect those pesticides to be present in contaminated storm water runoff.) If you would expect a pollutant to be present solely as a result of its presence in your intake water, you must mark "Believe Present" but you are not required to analyze for that pollutant. Instead, mark an "X" in the "Intake" column.

REPORTING. All levels must be reported as a concentration and as total mass. You may report some or all of the required data by attaching separate sheets of paper. (Use the following abbreviations in the columns headed "Units" (column 3, Part A, and column 4, Part B).

CC	ONCENTRATION	M	ASS
ppm	parts per million	lbs	
	milligrams per liter	ton	
		mg	Milligrams
	micrograms per liter		
		kg	
		T	tonnes (metric tons)

If you measure only one daily value, complete only the "Maximum Daily Values" columns and insert "1" into the "number of analyses" columns (columns 2A and 2B, Part A, and columns 3A and 3D, Part B). The Missouri Department of Natural Resources may require you to conduct additional analyses to further characterize your discharges.

For composite samples, the daily value is the total mass or average concentration found in a complete sample taken over the operating hours of the facility during a 24 hour period; for grab samples, the daily value is the arithmetic or flow-weighted total mass or average concentration found in a series of at least four grab samples taken over the operating hours of the facility during a 24 hour period.

If you measure more than one daily value for a pollutant, determine the average of all values within the last year and report the concentration and mass under the "Long Term Average Values" columns (column 2C, Part A, and column 3C, Part B), and the total number of daily values under the "Number of Analyses" columns (column 2D, Part A, and column 3D, Part B). Also, determine the average of all daily values taken during each calendar month, and report the highest average of all daily values taken during each calendar month, and report the highest average under the "Maximum 30 Day Values" columns (column 2B, Part A, and column 3B, Part B).

SAMPLING. The collection of the samples for the reported analyses should be supervised by a person experienced in performing sampling of industrial wastewater. You may contact your Missouri Department of Natural Resources' Regional Office for detailed guidance on sampling techniques and for answers to specific questions. Any specific requirements contained in the applicable analytical methods should be followed for sample containers, sample preservation, holding times, the collection of duplicate samples, etc. The time when you sample should be representative of your normal operation, to the extent feasible, with all processes which contribute wastewater in normal operation and with your treatment system operating properly with no system upsets. Samples should be collected from the center of the flow channel, where turbulence is at a maximum, at a site specified in your present permit or at any site adequate for the collection of a representative sample.

Grab and composite samples are defined as follows:

GRAB SAMPLE. An individual sample of at least 100 milliliters collected at a randomly selected time over a period not exceeding 15 minutes.

COMPOSITE SAMPLE. A combination of at least eight sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24 hour period. For volatile pollutants, aliquots must be combined in the laboratory immediately before analysis. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically.

ANALYSIS. You must use test methods promulgated in 40 CFR Part 136; however, if none has been promulgated for a particular pollutant, you may use any suitable method for measuring the level of the pollutant in your discharge provided that you submit a description of the method or a reference to a published method. Your description should include the sample holding times, preservation techniques and the quality control measures which you used.

If you have two or more substantially identical outfalls, you may request permission from the Missouri Department of Natural Resources to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If your request is granted by the Missouri Department of Natural Resources, on a separate sheet attached to the application form, identify which outfall you did test and describe why the outfalls which you did not test are substantially identical to the outfall which you did test.

REPORTING OF INTAKE DATA. You are not required to report data under the "Intake" columns unless you wish to demonstrate your eligibility for a "net" effluent limitation for one or more pollutants, that is, an effluent limitation adjusted by subtracting the average level of the pollutant(s) present in your intake water. National Pollutant Discharge Elimination System (NPDES) regulations allow net limitations only in certain circumstances. To demonstrate your eligibility, under the Intake columns report the average of the results of analyses on your intake water (if your water is treated before use, test the water after it is treated), and attach a separate sheet containing the following for each pollutant:

- A statement that the intake water is drawn from the body of water into which the discharge is made. (Otherwise, you are not eligible for net limitations.)
- 2. A statement of the extent to which the level of the pollutant is reduced by treatment of your wastewater. (Your limitations will be adjusted only to the extent that the pollutant is not removed.)
- 3. When applicable, a demonstration of the extent to which the pollutants in the intake vary physically, chemically, or biologically from the pollutants contained in your discharge. For example, when the pollutant represents a class of compounds. Your limitations will be adjusted only to the extent that the intake pollutants do not vary from the discharged pollutants.
- 3.00 Part A must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water or storm runoff. However, at your request, the Missouri Department of Natural Resources may waive the requirements to test for one or more of these pollutants, upon a determination that testing for the pollutant(s) is not appropriate for your effluent.
 - Use composite samples for all pollutants in this part, except use grab samples for pH and temperature. See discussion in instructions above for definitions of the columns in Part A. The "Long Term Average Values" column (column 2C) and "Maximum 30 Day Values" column (column 2B) are not compulsory but should be filled out if data is available.
- 3.00 Part B must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water or storm runoff.
 - Use composite samples for all pollutants you analyze for in this part, except use grab samples for residual chlorine, oil and grease and fecal coliform. The Long Term Average Values column (column 3C) and Maximum 30 Day Values column (column 3B) are not compulsory but should be filled out if data is available.
- 3.00 List any pollutants in Table B that you believe to be present and explain why you believe them to be present in part C. No analysis is required, but you have analytical, you must report it.

TABLE B – TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES REQUIRED TO BE IDENTIFIED BY APPLICANTS IF EXPECTED TO BE PRESENT

TOXIC POLLUTANT	HAZARDOUS SUBSTANCES	HAZARDOUS SUBSTANCES
Asbestos	Dichlorvos	Nalad
	Diethylamine	Napthenic acid
HAZARDOUS SUBSTANCES	Dimethylamine	Nitrotoluene
	Dintrobenzene	Parathion
Acetaldehyde	Diquat	Phenolsulfonate
Allyl alcohol	Disulfoton	Phosgene
Allyl chloride	Diuron	Propargite
Amyl acetate	Epichlorohydrin	Propylene oxide
Aniline	Ethion	Pyrethrins
Benzonitrile	Ethylene diamine	Quinoline
Benzyl chloride	Ethylene dibromide	Resorcinol
Butyl acetate	Formaldehyde	Strontium
Butylamine	Furfural	Strychnine
Captan	Guthion	Sytrene

TABLE B - (continued)

HAZARDOUS SUBSTANCES HAZARDOUS SUBSTANCES

Carbaryl Isoprene
Carbofuran Isopropanolamine
Carbon disulfide Kelthane

Chlorpyrifos Kepone
Coumaphos Malathion
Cresol Mercaptoo

Cresol Mercaptodimethur
Crotonaldehyde Methoxychlor
2,4-D (2,4-DichloroPhenoxyacetic acid) Methyl mercaptan
Methyl parathion
Diazinon Mevinphos
Dicamba Mexacarbate

Dichlobenil Monethyl amine 2,2-Dichloropropionic acid Monomethyl amine

HAZARDOUS SUBSTANCES

2, 4, 5-T (2,4,5-Trichlorophenoxyacetic acid)

TDE (Tetrachlorodiphenyl ethane)
2, 4, 5-TP (2-(2,4,5-Trichlorophenoxy) propanoic acid)

Trichlorofon
Triethanolamine
Triethaylamine
Uranium
Vanadium
Vinyl acetate
Xylene

Xylenol Zirconium

- 3.10 Self-explanatory. Additional information may be requested by the Missouri Department of Natural Resources.
- 3.20 Self-explanatory.
- 3.30 The Clean Water Act provides for severe penalties for submitting false information on this application form.

Section 309(c)(2) of the Clean Water Act provides that "Any person who knowingly makes any false statement, representation, or certification in any application . . . shall upon conviction, be punished by a fine of no more \$10,000 or by imprisonment for not more than six months, or both.

All applications must be signed as follows and the signature must be original.

- A. For a corporation, by an officer having responsibility for the overall operation of the regulated facility or activity or for environmental matters.
- B. For a partnership or sole proprietorship, by a general partner or the proprietor.
- C. For a municipal, state, federal or other public facility, by either a principal executive officer or by an individual having overall responsibility for environmental matters at the facility.

MO 780-1514 (06-13) PAGE 14

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PART B – Mark "X" in column 2.4 for each pollutant you know or have reason to believe is present. Mark "X" in column 2.B for each pollutant you believe to be absent. If you mark column 2.4 for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

90

OUTFALL NO.

1. POLLUTANT AND CAS NUMBER (if available)	A. MAXIMUM DAILY VALUE	Y VALUE	B. MAXIMUM 30 DAY VALUE (if available)	YY VALUE	C. LONG TERM AVRG. VALUE (if available)	G. VALUE	D. NO. OF ANALYSES	A. CONCEN-	B. MASS	A. LONG TERM AVRG. VALUE	G. VALUE	B. NO. OF
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
1,2-Dichloroethane	10.8	0.090	4.6	0.038	76.0	0.00809	105	ng/L	lb/day			
Chlorobenzene	1.1	0.009	0.37	0.003	0.05	0.00042	105	ng/L	lb/day			
1,1,2-Trichloroethane	ND (0.5)	ND (0.5)	(0.5) QN	ND (0.5)	ND (0.5)	(9:0) QN	105	ng/L	lb/day			
Vinyl Chloride	ND (0.5)	(0.5)	(0.5) ND (0.5)	ND (0.5)	ND (0.5)	(9:0) QN	105	ng/L	lb/day			
Tetrachloroethene	ND (0.5)	(0.5)	ND (0.5)	ND (0.5)	ND (0.5)	(9:0) QN	105	ng/L	lb/day			
Trichloroethene	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	(9.0) QN	105	ng/L	lb/day			
	0.23	0.002	0.08	0.001	0.002	0.00002	105	ng/L	lb/day			





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March 15, 2018 60565930

Missouri Department of Natural Resources Water Protection Program/Permitting PO Box 176 Jefferson City, Missouri 65102

Subject:

NPDES Operating Permit Renewal

Missouri State Operating Permit MO-0135763

Wyeth Holdings LLC

Dear Sir or Madam:

On behalf of Wyeth LLC, this letter transmits Form A-Application for Operating Permit and Form C-Application for Discharge Permit-Manufacturing for renewal of the Missouri State Operating Permit MO-0135763. The permit is associated with Wyeth Holdings LLC Groundwater Treatment System (GTS) at the former American Cyanamid Chemical (ACC) Facility located in Palmyra, Missouri.

In 2007, the United States Environmental Protection Agency (USEPA) approved the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report (ARCADIS, 2005) and the Phase II RFI Report (ARCADIS, 2006) and directed Wyeth (now Wyeth Holdings, LLC) to prepare a Corrective Measures Study (CMS) Work Plan in accordance with Section III of the Facility's RCRA Hazardous and Solid Waste Amendments (HSWA) Permit. The primary chemicals of concern (COCs) addressed by the GTS are 1,2-dichloroethane (1,2-DCA) and monochlorobenzene (MCB). Construction of the system began in November 2009. Operation of the GTS began in July 2010.

The GTS is operated pursuant to the Hazardous Waste Management Facility Permit (Permit # MOD0226075) issued by the Missouri Department of Natural Resources (MDNR) and the HSWA Permit issued by the USEPA on April 25, 1990, to ACC. The USEPA is currently the lead agency for the groundwater remediation.

The GTS was designed and installed by ARCADIS in July 2010 for establishment of hydraulic control and remediation of MCB and 1,2-DCA. The GTS consists of three groundwater recovery wells (RW-1, RW-2, RW-3) with target flow rates of 40-60 gallons per minute (gpm) each, underground piping, and a building housing treatment equipment. The GTS operation includes metering extracted groundwater at the treatment building and removal of volatile organic compounds from the groundwater by air stripping using two QED EZ-Tray Model 24.6 air strippers (AS-1 and AS-2) operating in series (total design flow rate of 150 gpm). Treated groundwater is discharged at Outfall 001. The receiving stream is an unnamed ditch that eventually discharges to the Mississippi River.

AECOM

Please call me at 402.952.2557 if you have any questions regarding this letter.

Sincerely,

AECOM Technical Services, Inc.

Brian K. Wight, P.E.

Project Manager