STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

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

Permit No.	MO-0137529
Owner:	Ms. Roberta Bretz
Address:	3241 West Division Street, Springfield, MO 65802
Continuing Authority:	Same as owner
Address:	Same as owner
Facility Name:	Bob's Scrap Metal Processing
Facility Address:	3241 West Division Street, Springfield, MO 65802
Legal Description:	SE ¹ /4, SW ¹ /4,Sec. 09, T29N, R22W, Greene County
UTM Coordinates:	X=469555, Y=4120119
Receiving Stream:	Unnamed tributary to North Branch Wilsons Creek (U)
First Classified Stream and ID:	North Branch Wilson's Creek (P) (3811) Losing
USGS Basin & Sub-watershed No.:	11010002-0301

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

FACILITY DESCRIPTION

Outfall #001 - Motor vehicle salvage yard and scrap metal recycling operations - SIC #5015 and #5093

Scrap Metal Recycling including the purchase and selling of aluminum cans, aluminum, wheels, copper, brass, stainless steel, breakage, coated wire, batteries, lead (clean), tin appliances, long iron, short iron, and vehicles

Storm water discharge only. Actual flow is dependent upon rainfall.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Sections 640.013, 621.250, and 644.051.6 of the Law.

April 1, 2014 Effective Date

Sara Parker Pauley, Director, Department of Natural Resources

Iras, Director, Water Protection Program

December 31, 2015 Expiration Date

OUTFALL
#001

TABLE A-1. INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 2 of 6

PERMIT NUMBER MO-0137529

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective **April 1, 2014**, and remain in effect through **March 31, 2016**. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

EFFLUENT PARAMETER(S)***	UNITS		ERIM EFFLU LIMITATION		MONITORING REQUIREMENTS		
	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE	
Flow	MGD	*			once/quarter****	24 hr. estimate	
Chemical Oxygen Demand	mg/L	*			once/quarter****	grab	
Total Suspended Solids	mg/L	*			once/quarter****	grab	
pH – Units	SU	**			once/quarter****	grab	
Ammonia as N	mg/L	*			once/quarter****	grab	
E. coli (Note 1, Page 3)	#/100 ml	*			once/quarter****	grab	
Oil & Grease	mg/L	*			once/quarter****	grab	
Phosphorus, Total	μg/L	*			once/quarter****	grab	
Aluminum, Total Recoverable	μg/L	*			once/quarter****	grab	
Cadmium, Total Recoverable	μg/L	*			once/quarter****	grab	
Copper, Total Recoverable	μg/L	*			once/quarter****	grab	
Iron, Total Recoverable	μg/L	*			once/quarter****	grab	
Lead, Total Recoverable	μg/L	*			once/quarter****	grab	
Manganese, Total Recoverable	μg/L	*			once/quarter****	grab	
Nickel, Total Recoverable	μg/L	*			once/quarter****	grab	
Zinc, Total Recoverable	μg/L	*			once/quarter****	grab	
Precipitation	Inches	*			once/quarter****	measurement	
MONITORING REPORTS SHALL BE SUBMI DISCHARGE OF FLOATING SOLIDS OR VIS					LY 28, 2014. THERE	SHALL BE NO	

OUTFALL
#001

TABLE A-2. FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 3 of 6

PERMIT NUMBER MO-0137529

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>April 1, 2016</u>, and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

	LDUTO	FINAL EFI	FLUENT LIM	ITATIONS	MONITORING REQUIREMENTS		
EFFLUENT PARAMETER(S)***	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE	
Flow	MGD	*			once/quarter****	24 hr. estimate	
Chemical Oxygen Demand	mg/L	120			once/quarter****	grab	
Total Suspended Solids	mg/L	100			once/quarter****	grab	
pH – Units	SU	**			once/quarter****	grab	
Ammonia as N	mg/L	*			once/quarter****	grab	
E. coli (Note 1, Page 3)	#/100 ml	*			once/quarter****	grab	
Oil & Grease	mg/L	15			once/quarter****	grab	
Phosphorus, Total	μg/L	*			once/quarter****	grab	
Aluminum, Total Recoverable	μg/L	749			once/quarter****	grab	
Cadmium, Total Recoverable	μg/L	9			once/quarter****	grab	
Copper, Total Recoverable	μg/L	22			once/quarter****	grab	
Iron, Total Recoverable	μg/L	492			once/quarter****	grab	
Lead, Total Recoverable	μg/L	123			once/quarter****	grab	
Manganese, Total Recoverable	μg/L	82			once/quarter****	grab	
Nickel, Total Recoverable	μg/L	165			once/quarter****	grab	
Zinc, Total Recoverable	μg/L	180			once/quarter****	grab	
Precipitation	Inches	*			once/quarter****	measurement	

DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

* Monitoring requirement only.

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

*** All samples shall be collected from a discharge resulting from a precipitation event greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable precipitation event. If a precipitation event does not occur within the reporting period, report as **no discharge**.

**** See table below for quarterly sampling

	Minimum Sampling Requirements							
Quarter	uarter Months Effluent Parameters							
First	January, February, March	Sample at least once during any month of the quarter	April 28 th					
Second	April, May, June	Sample at least once during any month of the quarter	July 28th					
Third	July, August, September	Sample at least once during any month of the quarter	October 28th					
Fourth	October, November, December	Sample at least once during any month of the quarter	January 28th					

Note 1 – Final effluent limits of 126 cfu per 100 ml daily maximum applicable year round due to losing stream designation.

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>November 1</u>, <u>2013</u>, and hereby incorporated as though fully set forth herein.

C. SPECIAL CONDITIONS

(a)

- 1. 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:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

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

3. Water Quality Standards

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

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

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

C. SPECIAL CONDITIONS (continued)

- 5. Report as no-discharge when a discharge does not occur during the report period.
- 6. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).
- 7. Any pesticide discharge from any point source shall comply with the requirements of Federal Insecticide, Fungicide and Rodenticide Act, as amended (7 U.S.C. 136 et. seq.) and the use of such pesticides shall be in a manner consistent with its label.
- 8. The permittee shall implement a Stormwater Pollution Prevention Plan (SWPPP). The permittee shall prepare a SWPPP within ninety (90) days of issuance of the permit. All aspects of the SWPPP must be fully implemented within one (1) year of issuance of the permit. The SWPPP must be kept on-site and should not be sent to the department unless specifically requested. The SWPPP must be reviewed and updated, if needed, every five (5) years or as site conditions change. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in the following document:

<u>Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators</u>, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (USEPA) in February 2009. The SWPPP must include the following:

- (a) A listing of specific Best Management Practices (BMPs) and a narrative explaining how BMPs will be implemented to control and minimize the amount of potential contaminants that may enter stormwater.
- (b) The SWPPP must include a schedule for twice per month site inspections and brief written reports. The inspections must include observation and evaluation of BMP effectiveness. Deficiencies must be corrected within seven (7) days and the actions taken to correct the deficiencies shall be included with the written report, including photographs. Any corrective measure that necessitates major construction may also need a construction permit. Inspection reports must be kept on site with the SWPPP and maintained for a period of five (5) years. These must be made available to department personnel upon request.
- (c) A provision for designating an individual to be responsible for environmental matters.
- (d) A provision for providing training to all personnel involved in material handling and storage, and housekeeping of maintenance and cleaning areas. Proof of training shall be submitted on request of the department.
- 9. 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 storm water 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 storm water or provide other prescribed BMPs such as plastic lids and/or portable spill pans to prevent the commingling of storm water 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.
 - (e) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property. This could include the use of straw bales, silt fences, or sediment basins, if needed, to comply with effluent limits.
- 10. The purpose of the SWPPP and the BMPs listed herein is the prevention of pollution of waters of the state. A deficiency of a BMP means it was not effective in preventing pollution [10 CSR 20-2.010(56)] of waters of the state, and corrective actions means the facility took steps to eliminate the deficiency.
- 11. Before releasing water that has accumulated in secondary containment areas it must be examined for hydrocarbon odor and presence of a sheen. If the presence of hydrocarbons is indicated, this water must be tested for Total Petroleum Hydrocarbons (TPH). The suggested analytical method for testing TPH is non-Halogenated Organic by Gas Chromatography method 8015 (also known as OA1 and OA2). However, if the permittee so desires to use other approved testing methods (i.e. EPA 1664), they may do so. If the concentration for TPH exceeds 10mg/L, the water shall be taken to a WWTP for treatment.
- 12. Release of a hazardous substance must be reported to the department in accordance with 10 CSR 24-3.010. A record of each reportable spill shall be retained with the SWPPP and made available to the department upon request.

D. SCHEDULE OF COMPLIANCE

The facility shall attain compliance with final effluent limitations as soon as reasonably achievable or no later than **2 years** of the effective date of this permit.

- 1. Within six months of the effective date of this permit, the permittee shall report progress made in attaining compliance with the final effluent limits.
- 2. The permittee shall submit interim progress reports detailing progress made in attaining compliance with the final effluent limits every 12 months from issuance date.
- 3. Within 2 years of the effective date of this permit, the permittee shall attain compliance with the final effluent limits.

Please submit progress reports to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, Missouri, 65807.

Missouri Department of Natural Resources FACT SHEET FOR THE PURPOSE OF RENEWAL OF MO-0137529 BOB'S SCRAP METAL PROCESSING

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 storm water 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.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)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 (operating permit) listed below.

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

This Factsheet is for an Industrial Facility.

Part I – Facility Information

Facility Type:Industrial, Motor vehicle salvage yard and scrap metal recycling operationsFacility SIC Code(s):5015, 5093

Facility Description:

Motor vehicle salvage yard and scrap metal recycling operations.

Have any changes occurred at this facility or in the receiving water body that effects effluent limit derivation? \square - Yes; This facility was previously permitted under the general stormwater permit MOR60A155, however do to stream reclassifications and the designation of the receiving stream as losing, the applicant was required to obtain a site-specific stormwater permit.

Application Date:	08/07/2013		
Expiration Date:	05/29/2013		
Last Inspection:	06/09/2010	In Compliance];	Non-Compliance 🖂

OUTFALL(S) TABLE:

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE
001	Rainfall dependent	Best Management Practices	Stormwater

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Facility Performance History & Comments:

The last site-inspection to determine compliance with MO-R60A155 was conducted on June 12, 2010. During the time of the inspection, the facility was found to be in non-compliance. The following summarizes the compliance history and observations made during the site-inspection which resulted in the non-compliance determination.

The permittee has been improperly disposing of solid waste material and scrap tires but has qualified for the Department's Tire Round-Up Program. As part of the scrap tire clean-up, the permittee was required to remove all solid waste at the site. The permittee has been required to comply with the Department's solid waste and hazardous waste regulations due to the types of materials being stored at the site. Additionally, an inspection by the Department's Hazardous Waste Management Program found improper storage of used oil and several areas on the ground visibly stained with oil that had not been properly cleaned.

The inspector from the site-inspection conducted June 12, 2010 observed scrap metal and debris pushed into a large pile with soil layered on top in an effort to clean up the site. The permittee stated that he planned to spread out the pile and separate all recyclable metal and solid waste materials. Additionally, the permittee agreed to keep all additional scrap metal collected from that point forward separate in order to continue the clean-up effort. Several dumpsters containing oily and greasy parts were uncovered and exposed to stormwater and leaking oil and fluids onto the ground. The stormwater outfall for this site had no Best Management Practices (BMPs) in place. The following unsatisfactory features were noted during this inspection:

- The site had a significant amount of broken plastic parts, trash and other unsalvageable materials scattered on the ground around the site. This type of debris may be considered solid waste, as opposed to a recoverable/recyclable material, and must be properly disposed of on a routine basis.
- The outfall was not clearly marked in the field. All points where stormwater leaves the property that has come in contact with any part of your auto salvage operation must be assigned an outfall number (Outfall #001, #002, and so on) and clearly marked in the field per MSOP Requirement #15.
- There were no Best Management Practices in place to prevent the loss of sediment and/or other pollutants from leaving the site. Causing pollution or placing contaminants in a place where they are reasonably certain to enter waters of the state is a violation of Missouri Clean Water Law Sections 644.051.1(1) and 644.076.1, RSMo.
- There were oil-containing and/or oil and grease covered parts in dumpsters that were exposed to storm water and leaking onto the ground. Causing pollution or placing contaminants in a place where they are reasonably certain to enter waters of the state is a violation of Missouri Clean Water Law Sections 644.051.1(1) and 644.076.1, RSMo.

The full inspection report is available upon request to the Department.

Part II – Receiving Stream Information

Receiving Water Body's Water Quality

Wilson's Creek is listed on the 2006 303(d) List of impaired waters for *E. coli* from non-point sources. The use designation of WBC-B has been impaired, as well as AQL and LWW. The unnamed tributary to North Branch Wilson's Creek flows approximately 0.25 miles into North Branch Wilson's Creek, which in turn flows approximately 1.4 miles into Wilson's Creek. Because the discharge from this facility falls within the Wilson's Creek watershed, this facility must comply with the loading requirements developed in the Total Maximum Daily Load (TMDL) report. Specific numeric water quality criteria were not used as TMDL targets because no specific pollutant was identified as the cause of impairment. The TMDL is a phased project and currently the Department is in the data collection effort, establishing BMPs and promulgating City of Springfield ordinances phase. Additionally, the discharge falls within the Table Rock Lake watershed, Hydraulic Unit Code 11010002 which requires that the facility meet a monthly average phosphorus limit of 0.5mg/L per 10 CSR 20-7.015(3). All streams listed above are losing, thus the facility shall meet losing stream limits per 10 CSR 20-7.015 (4).

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:

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

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

RECEIVING STREAM(S) TABLE:

WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	DISTANCE TO CLASSIFIED SEGMENT (MILES)	12-digit HUC**
Unnamed tributary to North Branch Wilson's Creek	U	N/A	General Criteria and GRW upon entering losing stream	0.00	11010002-0301
North Branch Wilson's Creek	Р	3811	AQL, GEN, LWW, WBC-B, Losing	0.25	

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

RECEIVING STREAM(S) LOW-FLOW VALUES TABLE:

$\mathbf{P}_{\mathbf{P}}$	LOW-FLOW VALUES (CFS)			
RECEIVING STREAM (U, C, P)	1Q10	7Q10	30Q10	
Unnamed tributary to North Branch Wilson's Creek (U)	0.0	0.0	0.0	

MIXING CONSIDERATIONS TABLE:

Mixing Zone: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(a)]. Zone of Initial Dilution: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(b)].

Mixing Zones and Zones of Initial Dilution are not allowed. All effluent from this facility is stormwater runoff. Permit limits and water quality standards must be met at the end of the pipe.

RECEIVING STREAM MONITORING REQUIREMENTS:

No receiving water monitoring requirements recommended at this time.

Receiving stream monitoring is not applicable. Facility discharges to a losing stream.

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.

 \boxtimes Not Applicable; this facility discharges to a losing stream. However, this was an existing facility prior to the reclassification of the receiving stream as losing. Alternatives have not been evaluated.

ANTI-BACKSLIDING:

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

⊠ - All limits in this operating permit are at least as protective as those previously established; therefore, backsliding does not apply.

ANTIDEGRADATION:

In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(2)], the Department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

 \boxtimes - Renewal no degradation proposed and no further review necessary.

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BIOSOLIDS & SEWAGE SLUDGE:

Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, 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 a 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 regarding biosolids and sludge is located at the following web address: http://dnr.mo.gov/env/wpp/pub/index.html, items WQ422 through WQ449.

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

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.

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 that will cause or have the reasonable potential to cause or contribute to an in-stream excursion above narrative or numeric water quality standard.

In accordance with [40 CFR Part 122.44(d)(iii)] if the permit writer determines that any give pollutant has the reasonable potential to cause, or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for that pollutant.

Not Applicable; A RPA was not conducted for this facility.

SCHEDULE OF COMPLIANCE (SOC):

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

Applicable;

The time given for effluent limitations of this permit listed under Interim Effluent Limitation and Final Effluent Limitations were established in accordance with [10 CSR 20-7.031(10)]. The permittee has been granted a two year SOC in order to meet final effluent limitations. The Department feels that two years provides adequate time for the permittee to implement BMPs or install proper treatment technology that will efficiently remove the pollutants from the stormwater runoff.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

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

In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in February 2009], BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Storm Water Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of storm water discharges.

Applicable; A SWPPP shall be developed and implemented for each site and shall incorporate required practices identified by the Department with jurisdiction, incorporate erosion control practices specific to site conditions, and provide for maintenance and adherence to the plan.

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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.

VARIANCE:

As 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 operating permit is not drafted under premises of a petition for variance.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:

As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the Department to release into a given stream after the Department has determined total amount of pollutant that may be discharged into that stream without endangering its water quality.

Applicable; Wasteload allocations were calculated where applicable using water quality criteria or water quality model results and the dilution equation below:

$$C = \frac{(Cs \times Qs) + (Ce \times Qe)}{(Qe + Qs)}$$
(EPA/505/2-90-001, Section 4.5.5)

Where C = downstream concentration

Cs = upstream concentration

Qs = upstream flow

Ce = effluent concentration

Qe = effluent flow

Chronic wasteload allocations were determined using applicable chronic water quality criteria (CCC: criteria continuous concentration) and stream volume of flow at the edge of the mixing zone (MZ). Acute wasteload allocations were determined using applicable water quality criteria (CMC: criteria maximum concentration) and stream volume of flow at the edge of the zone of initial dilution (ZID).

Water quality based maximum daily and average monthly effluent limitations were calculated using methods and procedures outlined in USEPA's "Technical Support Document For Water Quality-based Toxics Control" (EPA/505/2-90-001).

Number of Samples "n":

Additionally, in accordance with the TSD for water quality-based permitting, effluent quality is determined by the underlying distribution of daily values, which is determined by the Long Term Average (LTA) associated with a particular Wasteload Allocation (WLA) and by the Coefficient of Variation (CV) of the effluent concentrations. Increasing or decreasing the monitoring frequency does not affect this underlying distribution or treatment performance, which should be, at a minimum, be targeted to comply with the values dictated by the WLA. Therefore, it is recommended that the actual planned frequency of monitoring normally be used to determine the value of "n" for calculating the AML. However, in situations where monitoring frequency is once per month or less, a higher value for "n" must be assumed for AML derivation purposes. Thus, the statistical procedure being employed using an assumed number of samples is "n = 4" at a minimum. For Total Ammonia as Nitrogen, "n = 30" is used.

WLA MODELING:

There are two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs). If TBELs do not provide adequate protection for the receiving waters, then WQBEL must be used.

Not Applicable; A WLA study was either not submitted or determined not applicable by Department staff.

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WATER QUALITY STANDARDS:

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

WHOLE EFFLUENT TOXICITY (WET) TEST:

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

Not Applicable \square ; At this time, the permittee is not required to conduct WET test for this facility. Although the facility may have many toxic substances exposed to stormwater runoff, a WET Test is not applicable at this time. In order to develop Toxic Units, which is more appropriate than an Acute WET Test due to the nature of the facility, flow data or previous Toxic Unit testing results are needed. Since neither the permittee nor the Department has flow data, the permittee was not required to conduct Chronic WET Tests in the past and due to the fact that the receiving stream is losing, Toxic Units could not be calculated. The WET Test requirement will be re-evaluated during the next permit renewal, as there will be flow data available at that time.

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

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

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

Applicable; Wilson's Creek is listed on the 2006 Missouri 303(d) List for *E. coli*.

 \boxtimes – This facility is considered to be a source of or has the potential to contribute to the above listed pollutant(s).

Part IV – Effluent Limits Determination

Outfall #001 – Main Facility Outfall

Effluent limitations derived and established in the below Effluent Limitations Table are based on current operations of the facility. 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.

EFFLUENT LIMITATIONS TABLE:

PARAMETER	Unit	Daily Maximum	WEEKLY Average	Monthly Average	Modified	PREVIOUS PERMIT LIMITATIONS
Flow	GPD	*			YES	***
COD	MG/L	120			YES	***
TSS	MG/L	100			YES	***
РН	SU	6.5-9.0			YES	***
Ammonia as N	MG/L	*			YES	***
ESCHERICHIA COLI	**	*			YES	***
OIL & GREASE (MG/L)	MG/L	15			YES	***
PRECIPITATION	Inches	*			YES	***
PHOSPHORUS, TOTAL	μg/L	*			YES	***
Aluminum, Total Recoverable	μg/L	749			YES	***
Cadmium, Total Recoverable	μg/L	9.3			YES	***
COPPER, TOTAL Recoverable	μg/L	22.1			YES	***
IRON, TOTAL RECOVERABLE	μg/L	491.7			YES	***
LEAD, TOTAL RECOVERABLE	μg/L	122.8			YES	***
Manganese, Total Recoverable	μg/L	82.1			YES	***
NICKEL, TOTAL Recoverable	μg/L	164.5			YES	***
ZINC, TOTAL RECOVERABLE	μg/L	180.1			YES	***
WHOLE EFFLUENT TOXICITY (WET) TEST	% Survival	Please see WET Test in the Derivation and Discussion Section below.				

* - Monitoring requirement only.

** - # of colonies/100mL; the Monthly Average for *E. coli* is a geometric mean.

*** - Parameter not previously established in previous state operating permit.

OUTFALL #001 – DERIVATION AND DISCUSSION OF LIMITS:

- <u>Flow</u>. 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.
- <u>**Biological Oxygen Demand (BOD**</u>₅). Due to the nature of the discharge being a majority of metals pollutants, the permittee will not be required to monitor for this pollutant. Although this pollutant was detected in the sampling required for the submittal of the application for renewal of this permit, any potential impairment with oxygen demand will be determined through the COD monitoring.
- <u>Chemical Oxygen Demand (COD)</u>. It is the permit writer's best professional judgment that 120 mg/L of COD is a protective limit for pollutants in stormwater and is consistent with other stormwater permits including the EPA MSGP, Subsector N1. Due to the sensitive geological setting, limits apply instead of benchmarks.
- <u>Total Suspended Solids (TSS)</u>. It is the permit writer's best professional judgment that 100 mg/L of TSS is a protective limit for pollutants in stormwater and is consistent with other stormwater permits including the EPA MSGP, Subsector N1. Due to the sensitive geological setting, limits apply instead of benchmarks.

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- <u>Total Organic Carbon (TOC)</u>. No state or federal water quality criteria exist for this pollutant. Although this pollutant was detected in the sampling required for the submittal of the application for renewal of this permit, the Department cannot require the permittee to monitor or meet effluent limitations for this pollutant.
- <u>**pH**</u>. Effluent limitation range is 6.5 9.0 Standard pH Units (SU), as per the applicable section of 10 CSR 20-7.015. pH is not to be averaged.
- <u>Total Ammonia Nitrogen</u>. Early Life Stages Present Total Ammonia Nitrogen criteria apply [10 CSR 20-7.031(4)(B)7.C. & Table B3] default pH 7.8 SU Background total ammonia nitrogen = 0.01 mg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion. The Department determined that no reasonable potential to exceed water quality standards (WQSs) for ammonia exists due to the nature of the discharge. However, the permittee will be required to monitor for this parameter in order to evaluate the potential to exceed water quality standards during the next permit renewal.
- <u>Escherichia coli (E. coli)</u>. Although this facility discharges to losing streams, the Department feels that due to the nature of the discharge this facility does not have reasonable potential to exceed water quality standards. However, the permittee will be required to monitor for this parameter in order to evaluate the potential to exceed water quality standards during the next permit renewal.
- Oil & Grease. Conventional pollutant, effluent limitation for protection of aquatic life; 15 mg/L daily maximum.
- **<u>Precipitation</u>**. The facility only discharges during precipitation events; therefore, the amount of daily rainfall is needed to determine how often the facility discharges.
- <u>Total Phosphorus.</u> Although this facility discharges within Table Rock Lake watershed, HUC 11010002, which requires facilities to meet a monthly average of 0.5 mg/L per 10 CSR 20-7.015 (3), this facility will be required to monitor only for this parameter. Due to the nature of the facility and the discharge, the Department has concluded that there is no reasonable potential to exceed the 0.5 mg/L limit. However, this will be re-evaluated during the following renewal cycle once sufficient data has been collected.
- <u>**Temperature.**</u> Due to the nature of the discharge being stormwater runoff on scrap metal storage and processing, the Department has determined that this facility does not have a reasonable potential to exceed water quality standards for this pollutant.

Metals

Effluent limitations for total recoverable metals were developed using methods and procedures outlined in the "Technical Support Document For Water Quality-based Toxic Controls" (EPA/505/2-90-001) and "The Metals Translator: Guidance For Calculating A Total Recoverable Permit Limit From A Dissolved Criterion" (EPA 823-B-96-007). General warm-water fishery criteria apply and a water hardness of 162 mg/L is used in the conversion below.

Due to the absence of contemporaneous effluent and instream data for total recoverable metals, dissolved metals, hardness, and total suspended solids with which to calculate metals translators, partitioning between the dissolved and absorbed phases was assumed to be minimal (Section 5.7.3, EPA/505/2-90-001). Freshwater criteria conversion factors for dissolved metals were used as the metals translator as recommended in guidance (Section 1.3, 1.5.3, and Table 1, EPA 823-B-96-007). If concurrent site-specific data for total recoverable metals, dissolved metals, hardness, and total suspended solids are provided to the Department, partitioning evaluations may be considered and site-specific translators developed.

Metal	Convi	ERSION FACTORS
METAL	ACUTE	CHRONIC
Aluminum	1.000	1.000
Cadmium	0.924	0.889
Copper	0.960	0.960
Iron	1.000	1.000
Lead	0.721	0.721
Magnesium	1.000	1.000
Manganese	1.000	1.000
Molybdenum	1.000	1.000
Nickel	0.998	0.997
Tin	1.000	1.000
Zinc	0.980	0.980

Conversion factors for Cd and Pb are hardness dependent. Values calculated using equation found in Section 1.3 of EPA 823-B-96-007 and hardness = 162 mg/L.

The following calculations consider both Protection of Groundwater Chronic Criteria and Protection of Aquatic Life Acute Criteria. Due to the nature of the discharge and the receiving stream characteristics (stormwater into a losing setting), aquatic life will only be exposed to potential toxins in the stormwater runoff for a short period of time (less than 7 days). These same toxins have the potential to accumulate for longer periods of time in the groundwater of this losing stream setting. The more stringent of these two criteria will be used to calculate final effluent limitations. Additionally, Outfall #001 discharges into an unclassified receiving stream. Therefore, dilution of metals concentrations by mixing is not taken into consideration in determining the metals waste load allocations for this outfall.

Again, with consideration to the sensitivity of the geological setting, final effluent limitations will apply in the permit instead of benchmarks. This will ensure protection of the groundwater quality and potential human health risks associated with possible groundwater use as a drinking water source.

Since the "Technical Support Document For Water Quality-based Toxic Controls" (EPA/505/2-90-001) and "The Metals Translator: Guidance For Calculating A Total Recoverable Permit Limit From A Dissolved Criterion" (EPA 823-B-96-007) are based on continuous dosing, calculating final effluent limitations using the statistical analysis discussed in these guidance document is not relevant to this facility. Stormwater runoff is highly variable and discharges cannot be controlled to allow for continuous flow similar to a point-source. Therefore, the following calculations only consider the more stringent criteria and the conversion factor associated with the toxic pollutant. These values will be listed as maximum daily final effluent limitations.

<u>Aluminum, Total Recoverable</u>. Protection of Aquatic Life Acute Criteria = 750 μg/L. Protection of Groundwater Chronic Criteria = N/A. Due to the sensitive geological setting, limits apply instead of benchmarks.

Acute WLA = $750/1.000 = 750 \ \mu g/L$

<u>Cadmium, Total Recoverable</u>. Protection of Aquatic Life Acute Criteria = 7.6 μg/L. Protection of Groundwater Chronic Criteria = 5 μg/L. The more protective of the two applies. Due to the sensitive geological setting, limits apply instead of benchmarks.

Chronic WLA = $5/0.889 = 5.6 \,\mu g/L$

<u>Copper, Total Recoverable</u>. Protection of Aquatic Life Acute Criteria = 21.2 µg/L. Protection of Groundwater Chronic Criteria = 1,300 µg/L. The more protective of the two applies. Due to the sensitive geological setting, limits apply instead of benchmarks.

Acute WLA = $21.2/0.960 = 22.1 \ \mu g/L$

• <u>**Iron, Total Recoverable**</u>. Protection of Aquatic Life Chronic Criteria = $1000 \mu g/L$. Protection of Groundwater Chronic Criteria = $300 \mu g/L$. The more protective of the two applies. Due to the sensitive geological setting, limits apply instead of benchmarks.

Chronic WLA = $300/1.000 = 300 \ \mu g/L$

• <u>Lead, Total Recoverable</u>. Protection of Aquatic Life Acute Criteria = $109 \mu g/L$. Protection of Groundwater Chronic Criteria = $15 \mu g/L$. The more protective of the two applies. Due to the sensitive geological setting, limits apply instead of benchmarks.

Chronic WLA = $15/0.721 = 20.8 \ \mu g/L$

- <u>Magnesium, Total Recoverable</u>. No state or federal water quality criteria exist for this pollutant. Although this pollutant was detected in the sampling required for the submittal of the application for renewal of this permit, the Department cannot require the permittee to monitor or meet effluent limitations for this pollutant.
- <u>Manganese, Total Recoverable</u>. Protection of Aquatic Life Acute Criteria = N/A. Protection of Groundwater Chronic Criteria = $50 \mu g/L$. The more protective of the two applies. Due to the sensitive geological setting, limits apply instead of benchmarks.

Chronic WLA = $50/1.000 = 50 \ \mu g/L$

- <u>Molybdenum, Total Recoverable</u>. No state or federal water quality criteria exist for this pollutant. Although this pollutant was detected in the sampling required for the submittal of the application for renewal of this permit, the Department cannot require the permittee to monitor or meet effluent limitations for this pollutant.
- <u>Nickel, Total Recoverable</u>. Protection of Aquatic Life Acute Criteria = $705 \mu g/L$. Protection of Groundwater Chronic Criteria = $100 \mu g/L$. The more protective of the two applies. Due to the sensitive geological setting, limits apply instead of benchmarks.

Chronic WLA = 100/0.997 = 100.3 µg/L

- <u>**Tin, Total Recoverable**</u>. No state or federal water quality criteria exist for this pollutant. Although this pollutant was detected in the sampling required for the submittal of the application for renewal of this permit, the Department cannot require the permittee to monitor or meet effluent limitations for this pollutant.
- <u>Zinc, Total Recoverable</u>. Protection of Aquatic Life Acute Criteria = $176.7 \mu g/L$. Protection of Groundwater Chronic Criteria = $5,000 \mu g/L$. The more protective of the two applies. Due to the sensitive geological setting, limits apply instead of benchmarks.

Acute WLA = $176.7/0.980 = 180.3 \ \mu g/L$

Part V – Administrative Requirements

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PERMIT SYNCHRONIZATION:

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. 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.

PUBLIC NOTICE:

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in 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.

 \square - The Public Notice period for this operating permit began on December 27, 2013 and ended on January 27, 2014. During the Public Notice period, the Department received a comment from the permittee's consultant. The consultant was erroneously listed as the Continuing Authority. The permit has been updated with the correct information. Additionally, the ownership information was corrected. Post Public Notice, the Department received confirmation of ownership of the facility. No other comments were received during this Public Notice period.

DATE OF FACT SHEET: 10/29/2013

COMPLETED BY:

LOGAN COLE, ENVIRONMENTAL SPECIALIST MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM OPERATING PERMITS SECTION - INDUSTRIAL UNIT (573) 751-5827 logan.cole@dnr.mo.gov

STANDARD CONDITIONS FOR NPDES PERMITS **ISSUED BY** THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION AUGUST 15, 1994

PART III – SLUDGE & BIOSOLIDS FROM DOMESTIC WASTEWATER TREATMENT FACILITIES

SECTION A – GENERAL REQUIREMENTS

- 1. This permit pertains to sludge requirements under the Missouri Clean Water Law and regulation and incorporates applicable federal sludge disposal requirements under 40 CFR 503. The Environmental Protection Agency (EPA) has principal authority for permitting and enforcement of the federal sludge regulations under 40 CFS 503 until such time as Missouri is delegated the new EPA sludge program. EPA has reviewed and accepted these standard sludge conditions. EPA may choose to issue a separate sludge addendum to this permit or a separate federal sludge permit at their discretion to further address federal requirements.
- 2. These PART III Standard Conditions apply only to sludge and biosolids generated at domestic wastewater treatment facilities, including public owned treatment works (POTW) and privately owned facilities.
- 3. Sludge and Biosolids Use and Disposal Practices.
 - Permittee is authorized to operate the sludge and biosolids treatment, storage, use, and disposal facilities listed in a. the facility description of this permit.
 - b. Permittee shall not exceed the design sludge volume listed in the facility description and shall not use sludge disposal methods that are not listed in the facility description, without prior approval of the permitting authority.
 - c. Permittee is authorized to operate the storage, treatment or generating sites listed in the Facility Description section of this permit.
 - d. A separate operating permit is required for each operating location where sludge or biosolids are generated, stored, treated, or disposed, unless specifically exempted in this permit or in 10 CSR 20, Chapter 6 regulations. For land application, see section H, subsection 3 of these standard conditions.
- Sludge Received From Other Facilities 4.
 - Permitees may accept domestic wastewater sludge from other facilities including septic tank pumpings from a. residential sources as long as the design sludge volume is not exceeded and the treatment facility performance is not impaired.
 - The permittee shall obtain a signed statement from the sludge generator or hauler that certifies the type and source b. of the sludge.
 - Sludge received from out-of-state generators shall receive prior approval of the permitting authority and shall be c. listed in the facility description or special conditions section of the permit.
- 5. These permit requirements do not supersede nor remove liability for compliance with county and other local ordinances.
- These permit requirements do not supersede nor remove liability for compliance with other environmental regulations 6. such as odor emissions under the Missouri Air Pollution Control Law and regulations.
- 7. This permit may (after du process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Act or under Chapter 644 RsMo.
- In addition to the STANDARD CONDITIONS, the department may include sludge limitations in the special conditions 8. portion or other sections of this permit.
- 9. Alternate Limits in Site Specific Permit. Where deemed appropriate, the department may require an individual site specific permit in order to authorize alternate limitations:
 - An individual permit must be obtained for each operating location, including application sites. a.
 - b. To request a site specific permit, an individual permit application, permit fees, and supporting documents shall be submitted for each operating location. This shall include a detailed sludge/biosolids management plan or engineering report.
- 10. Exceptions to these Standard Conditions may be authorized on a case-by-case basis by the department, as follows:
 - a. The department will prepare a permit modification and follow permit public notice provisions as applicable under 10 CSR 20-6.020, 40 CFR 124.10, and 40 CFR 501.15(a)(2)(ix)(E). This includes notification of the owners of property located adjacent to each land application site, where appropriate. b.
 - Exceptions cannot be grated where prohibited by the federal sludge regulations under 40 CFR 503.

11. **Compliance** Period

Compliance shall be achieved as expeditiously as possible but no later than the compliance dates under 40 CFR 503.2.

SECTION B – DEFINITIONS

- 1. Biosolids means an organic fertilizer or soil amendment produced by the treatment of domestic wastewater sludge. Untreated sludge or sludge that does not conform to the pollutants and pathogen treatment requirements in this permit is not considered biosolids.
- 2. Biosolids land application facility is a facility where biosolids are spread onto the land at agronomic rates for production of food or fiber. The facility includes any structures necessary to store the biosolids until soil, weather, and crop conditions are favorable for land application.
- 3. Class A biosolids means a material that has met the Class A pathogen reduction requirements or equivalent treatment by a Process to Further Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
- 4. Class B biosolids means a material that has met the Class B pathogen reduction requirements or equivalent treatment by a Process to Significantly Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
- 5. Domestic wastewater means wastewater originating from the sanitary conveniences of residences, commercial buildings, factories and institutions; or co-mingled sanitary and industrial wastewater processed by a public owned treatment works (POTW) or privately owned facility.
- 6. Mechanical treatment plants are wastewater treatment facilities that use mechanical devices to treat wastewater, including septic tanks, extended aeration, activated sludge, contact stabilization, trickling filters, rotating biological discs, and other similar facilities. It does not include unaerated wastewater treatment lagoons and constructed wetlands for wastewater treatment.
- 7. Operating location as defined in 10 CSR 20-2.010 is all contiguous lands owned, operated or controlled by one (1) person or by two (2) or more persons jointly or as tenants in common.
- 8. Plant Available Nitrogen (PAN) is the nitrogen that will be available to plants during the next growing season after biosolids application.
- 9. Sinkhole is a depression in the land surface into which surface water flows to join an underground drainage system.
- 10. Site Specific Permit is a permit that has alternate limits developed to address specific site conditions for each land application site or storage site.
- 11. Sludge is the solid, semisolid, or liquid residue removed during the treatment of wastewater. Sludge includes septage removed from septic tanks.
- 12. Sludge lagoon is an earthen basin that receives sludge that has been removed from a wastewater treatment facility. It does not include a wastewater treatment lagoon or sludge treatment units that are not a part of a mechanical wastewater treatment facility.
- 13. Wetlands are those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamp, marshes, bogs, and similar areas. Wetlands do not include constructed wetlands used for wastewater treatment.

SECTION C – MECHANICAL WASTEWATER TREATMENT FACILITIES

- 1. Sludge shall be routinely removed from the wastewater treatment facilities and handled according to the permit facility description and sludge conditions in this permit.
- 2. The permittee shall operate the facility so that there is no sludge loss into the discharged effluent in excess of permit limits, no sludge bypassing, and no discharge of sludge to waters of the state.
- 3. Mechanical treatment plants shall have separate sludge storage compartments in accordance with 10 CSR 20, Chapter 8. Failure to remove sludge from these storage compartments on the required design schedule is a violation of this permit.

SECTION D – SLUDGE DISPOSED AT OTHER TREATMENT FACILITY OR CONTRACT HAULER

- 1. This section applies to permittees that haul sludge to another treatment facility for disposal or use contract haulers to remove and dispose of sludge.
- 2. Permittees that use contract haulers are responsible for compliance with all the terms of this permit including final disposal, unless the hauler has a separate permit for sludge or biosolids disposal issued by the department; or the hauler transports the sludge to another permitted treatment facility.
- 3. The permittee shall require documentation from the contractor of the disposal methods used and permits obtained by the contractor.
- 4. Testing of sludge, other than total solids content, is not required if sludge is hauled to a municipal wastewater treatment facility or other permitted wastewater treatment facility.

SECTION E – WASTEWATER TREATMENT LAGOONS AND STORMWATER RETENTION BASINS

- 1. Sludge that is retained within a wastewater treatment lagoon is subject to sludge disposal requirements when the sludge is removed from the lagoon or when the lagoon ceases to receive and treat wastewater.
- 2. If sludge is removed during the year, an annual sludge report must be submitted.
- 3. Storm water retention basins or other earthen basins, which have been used as sludge storage for a mechanical treatment system is considered a sludge lagoon and must comply with Section G of this permit.

SECTION F – INCINERATION OF SLUDGE

- 1. Sludge incineration facilities shall comply with the requirements of 40 CFR 503 Subpart E; air pollution control regulations under 10 CSR 10; and solid waste management regulations under 10 CSR 80.
- 2. Permittee may be authorized under the facility description of this permit to store incineration ash in lagoons or ash ponds. This permit does not authorize the disposal of incineration ash. Incineration ash shall be disposed in accordance with 10 CSR 80; or if the ash is determined to be hazardous waste, shall be disposed in accordance with 10 CSR 25.
- 3. In addition to normal sludge monitoring, incineration facilities shall report the following as part of the annual report, quantity of sludge incinerated, quantity of ash generated, quantity of ash stored; and ash use or disposal method, quantity, and location. Permittee shall also provide the name of the disposal facility and the applicable permit number.
- 4. Additional limitations, monitoring, and reporting requirements may be addressed in the Special Conditions sections of this permit.

SECTION G - SURFACE DISPOSAL SITES AND SLUDGE LAGOONS

- 1. Surface disposal sites shall comply with the requirements in 40 CFR 503 Subpart C, and solid waste disposal regulations under 10 CSR 80.
- 2. Additional limitations, monitoring, and reporting requirements may be addressed in the Special Conditions section of this permit.
- 3. Effective February 19, 1995, a sludge lagoon that has been in use for more than two years without removal of accumulated sludge, or that has not been properly closed shall comply with one of the following options:
 - a. Permittee shall obtain a site specific permit to address surface disposal requirements under 40 CFR 503, ground water quality regulations under 10 CSR 20, Chapter 7 and 8, and solid waste management regulations under 10 CSR 80;
 - b. Permittee shall clean out the sludge lagoon to remove any sludge over two years old and shall continue to remove accumulated sludge at least every two years or an alternate schedule approved under 40 CFR 503.20(b). In order to avoid damage to the lagoon seal during cleaning, the permittee may leave a layer of sludge on the bottom of the lagoon, upon prior approval of the department; or
 - c. Permittee shall close the lagoon in accordance with Section 1.

SECTION H – LAND APPLICATION

- 1. The permittee shall not land apply sludge or biosolids unless land application is authorized in the Facility Description or special conditions section of the permit.
- 2. This permit replaces and terminates all previous sludge management plan approvals by the department for land application of sludge or biosolids.
- 3. Land application sites within a 20 mile radius of the wastewater treatment facility are authorized under this permit when biosolids are applied for beneficial use in accordance with these standard conditions unless a site specific permit is required under Section A, Subsection 9.
- 4. Biosolids shall not be applied unless authorized in this permit or exempted under 10 CSR 20, Chapter 6.
 - a. This permit does not authorize the land application of sludge except when sludge meets the definition of biosolids.
 - b. This permit authorizes "Class A or B" biosolids derived from domestic wastewater sludges to be land applied onto grass land, crop land, timber land or other similar agricultural or silviculture lands at rates suitable for beneficial use as organic fertilizer and soil conditioner.
- 5. Public Contact Sites.

Permittees who wish to apply Class A biosolids to public contact sites must obtain approval from the department. Applications for approval shall be in the form of an engineering report and shall address priority pollutants and dioxin concentrations. Authorization for land applications must be provided in the special conditions section of this permit or in a separate site-specific permit. 6. Agricultural and Silvicultural Sites.

In addition to specified conditions herein, this permit is subject to the attached Water Quality Guides numbers WQ 422 through 426 published by the University of Missouri, and herby incorporated as though fully set forth herein. The guide topics are as follows:

- WQ 422 Land Application of Septage
- WQ 423 Monitoring Requirements for Biosolids Land Application
- WQ 424 Biosolids Standards for Pathogens and Vectors
- WQ 425 Biosolids Standards for Metals and Other Trace Substances
- WQ 426 Best Management Practices for Biosolids Land Applications

SECTION I – CLOSURE REQUIREMENTS

- 1. This section applies to all wastewater treatment facilities (mechanical and lagoons) and sludge or biosolids storage and treatment facilities and incineration ash ponds. It does not apply to land application sites.
- 2. Permittees who plan to cease operation must obtain department approval of a closure plan which addresses proper removal and disposal of all residues, including sludge, biosolids, and ash. Permittee must maintain this permit until the facility is properly closed per 10 CSR 20-6.010 and 10 CSR 20-6.015.
- 3. Residuals that are left in place during closure of a lagoon or earthen structure shall not exceed the agricultural loading rates as follows:
 - a. Residuals shall meet the monitoring and land application limits for agricultural rates as referenced in Section H of these standard conditions.
 - b. If a wastewater treatment lagoon has been in operation for 15 years or more, the sludge in the lagoon qualifies for Class B with respect to pathogens (see WQ 424, Table 3), and testing for fecal coliform is not required. For other lagoons, testing for fecal coliform is required to show compliance with Class B limitations. Se WQ 423 and 424.
 - c. The allowable nitrogen loading that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. See WQ 426 for calculation procedures. For a grass cover crop, the allowable PAN is 300 pounds/acre.
- 4. When closing a wastewater treatment lagoon with a design treatment capacity equal or less than 150 persons, the residuals are considered "septage" under the similar treatment works" definition. See WQ 422. Under the septage category, residuals may be left in place as follows:
 - a. Testing for metals or fecal coliform is not required.
 - b. If the wastewater treatment lagoon has been in use for less than 15 years, mix lime with the sludge at the rate of 50 pounds of hydrated lime per 1000 gallons (134 cubic feet) of sludge.
 - c. The amount of sludge that may be left in the lagoon shall be based on the plan available nitrogen (PAN) loading. 100 dry tons/acre of sludge may be left in the basin without testing for nitrogen. If more than 100 dry tons/acre will be left in the lagoon, test for nitrogen and determine the PAN in accordance with WQ 426. Allowable PAN loading is 300 pounds/acre.
- 5. Residuals left within the lagoon shall be mixed with soil on at least a 1 to 1 ratio, the lagoon berms shall be demolished, and the site shall be graded and vegetated so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
- 6. Lagoon closure activities shall obtain a storm water permit for land disturbance activities that equal or exceed five acres in accordance with 10 CSR 20-6.200.
- 7. If sludge exceeds agricultural loading rates under Section H or I, a landfill permit or solid waste disposal permit shall be obtained to authorize on-site sludge disposal under the Missouri Solid Waste Management Law and regulations per 10 CSR 80, and the permittee must comply with the surface disposal requirements under 40 CFR 503, Subpart C.

SECTION J – MONITORING FREQUENCY

- 1. At a minimum, sludge or biosolids shall be tested for volume and percent total solids on a frequency that will accurately respresent sludge quantities produced and disposed.
- 2. Testing for land application is listed under Section H, Subsection 6 of these standard conditions (see WQ 423). Once per year is the minimum test frequency. Additional testing shall be performed for each 100 dry tons of sludge generated or stored during the year.
- 3. Additional testing may be required in the special conditions or other sections of the permit. Permittees receiving industrial wastewater may be required to conduct additional testing upon request from the department.
- 4. Monitoring requirements shall be performed in accordance with, "POTW Sludge Sampling and Analysis Guidance Document", United States Environmental Protection Agency, August 1989, and subsequent revisions.

SECTION K - RECORD KEEPING AND REPORTING REQUIREMENTS

- 1. The permittee shall maintain records on file at the facility for at least five years for the items listed in these Standard Conditions and any additional items in the Special Conditions section of this permit. This shall include dates when the sludge facility is checked for proper operation, records of maintenance and repairs and other relevant information.
- 2. Reporting Period
 - a. By January 28th of each year, an annual report shall be submitted for the previous calendar year period for all mechanical wastewater treatment facilities, sludge lagoons, and sludge or biosolids disposal facilities.
 - b. Permittees with wastewater treatment lagoons shall submit the above annual report only when sludge or biosolids are removed from the lagoon during the report period or when the lagoon is closed.
- 3. Report Forms. The annual report shall be submitted on report forms provided by the department or equivalent forms approved by the department.
- 4. Report shall be submitted as follows:

Major facilities (those serving 10,000 persons or 1 million gallons per day) shall report to both the department and EPA. Other facilities need to report only to the department. Reports shall be submitted to the addresses listed as follows:

DNR regional office listed in your permit (See cover letter of permit)

EPA Region VII Water Compliance Branch (WACM) Sludge Coordinator 901 N 5th Street Kansas City, KS 66101

- 5. Annual Report Contents. The annual report shall include the following:
 - a. Sludge/biosolids testing performed. Include a copy or summary of all test results, even if not required by this permit.
 - b. Sludge or Biosolids quantity shall be reported as dry tons for quantity generated by the wastewater treatment facility, the quantity stored on site at end of year, and the quantity used or disposed.
 - c. Gallons and % solids data used to calculate the dry ton amounts.
 - d. Description of any unusual operating conditions.
 - e. Final disposal method, dates, and location, and person responsible for hauling and disposal.
 - (1) This must include the name, address and permit number for the hauler and the sludge facility. If hauled to a municipal wastewater treatment facility, sanitary landfill, or other approved treatment facility, give the name and permit number of that facility.
 - (2) Include a description of the type of hauling equipment used and the capacity in tons, gallons, or cubic feet.
 - f. Contract Hauler Activities.
 If contract hauler, provide a copy of a signed contract or billing receipts from the contractor. Permittee shall require the contractor to supply information required under this permit for which the contractor is responsible. The permittee shall submit a signed statement from the contractor that he has complied with the standards contained in this permit, unless the contract hauler has a separate sludge disposal or biosolids use permit.
 - g. Land Application Sites.
 - (1) Report the location of each application site, the annual and cumulative dry tons/acre for each site, and the landowners name and address. The location for each spreading site shall be given as legal description for nearest ¹/₄, ¹/₄, Section, Township, Range, and County, or as latitude and longitude.
 - (2) If biosolids application exceeds 2 dry tons/acre/year, report biosolids nitrogen results. Plant Available Nitrogen (PAN) in pounds/acre, crop nitrogen requirement, available nitrogen in the soil prior to biosolids application, and PAN calculations for each site.
 - (3) If the "Low Metals" criteria is exceeded, report the annual and cumulative pollutant loading rates in pounds per acre for each applicable pollutant, and report the percent of cumulative loading which has been reached at each site.
 - (4) Report the method used for compliance with pathogen and vector attraction requirements.
 - (5) Report soil test results for pH, CEC, and phosphorus. If none was tested during the year, report the last date when tested and results.

	Retu	erned no	fees de
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MISSOURI DEPARTMENT OF NATURAL RES	SOURCES POLLUTION CONTROL BRANCH		
FORM A - APPLICATION FOR CONSTRUCT	ION OR OPERATING PERMIT	0.00	00
		DATE RECEIVED	FEE SUBMITTED
Dete ► PLEASE READ THE ACCOMPANYING IN	STRUCTIONS BEFORE COMPLET	TING THIS FORM.	
 This application is for: An operating permit and antidegradation r A construction permit following an appropriate of the construction permit and concurrent oper A construction permit (submitted before A) An operating permit for a new or unpermit An operating permit renewal: permit # MO An operating permit modification: permit # 	riate operating permit and antide rating permit and antidegradation ug. 30, 2008 or antidegradation ted facility Construction - Re0A155 Expiration D MO Reason:	n review public noti review is not requir n Permit # Date	ice red)
			ONE WITH AREA CODE
ob's Scrap Metal Processing		(41 FAX	7) 869-6633
DDRESS (PHYSICAL)	CITY	STATE	ZIP CODE
241 W. Division St.	Springfield	МО	65802
B. OWNER	E-MAIL ADD		ONE WITH AREA CODE
ls. Willie Bretz		(41 FAX	7) 869-6633
DDRESS (MAILING)	CITY	STATE	ZIP CODE
Ame as above .1 Request review of draft permit prior to public	notice? VES	NO	
Request review of draft permit prior to public CONTINUING AUTHORITY			
IAME			ONE WITH AREA CODE
unbelt Environmental Services, Inc.	· · · · · · · · · · · · · · · · · · ·	FAX (41	7) 831-6258
DDRESS (MAILING) 21 N. Prince Lane	CITY Springfield	STATE MO	ZIP CODE 65802
OPERATOR			
	CERTIFICATE NUMBER	TELEPH	ONE WITH AREA CODE
ame as Owner DDRESS (MAILING)	CITY	FAX STATE	ZIP CODE
	TITLE	TELEPH	ONE WITH AREA CODE
Is. Willie Bretz	Owner	(41 FAX	17) 869-6633
ADDITIONAL FACILITY INFORMATION		FAA	
1 Legal Description of Outfalls. (Attach addition 001 SE ¼ SW ¼ Sec UTM Coordinates Easting (X): 481917.65	9 T 29N R 2 Northing (Y): 4109721.60	an Datum 1983 (NAD8	County County County n (NAICS) Codes.

2

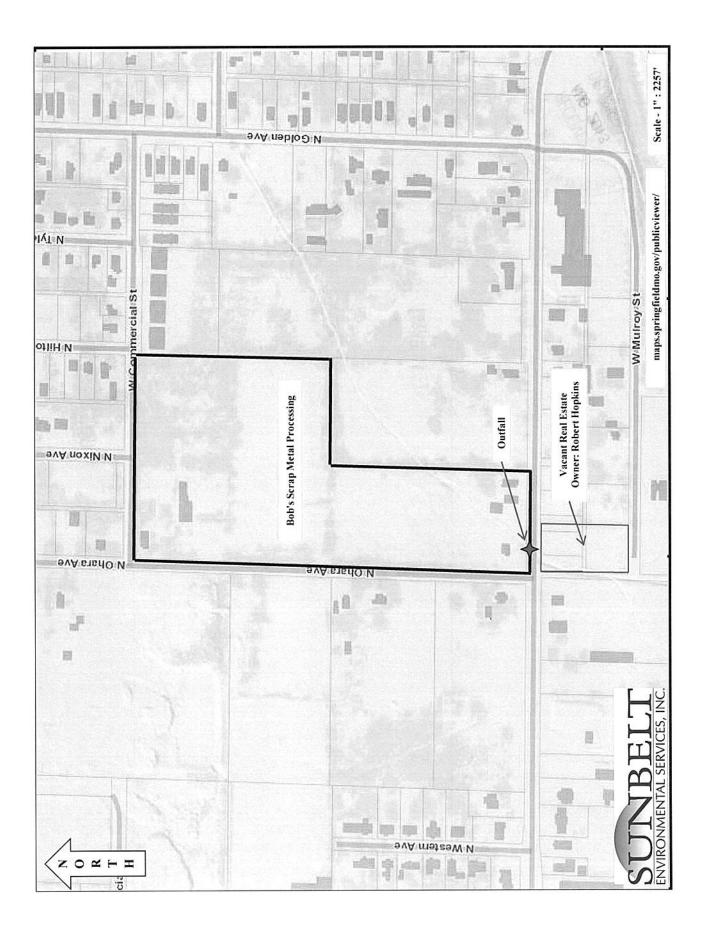
8.	ADDITIONAL FORMS AND MAPS NECESSARY TO CO (Complete all forms that are applicable.)	DMPLETE THIS APPLICATION		
Α.	Is your facility a manufacturing, commercial, mining or sile If yes, complete Form C (unless storm water only, then comp	viculture waste treatment facility? lete U.S. Environmental Protection Agency	YES 🗌 Form 2F per	
В.	Is your facility considered a "Primary Industry" under EPA If yes, complete Forms C and D.	guidelines:	YES 🗌	NO 🔽
C.	Is application for storm water discharges only? If yes, complete EPA Form 2F.		YES 🛛	
D.	Attach a map showing all outfalls and the receiving stream	n at 1" = 2,000' scale.		
E.	Is wastewater land applied? If yes, complete Form I.		YES 🗌	NO 🛛
F.	Is sludge, biosolids, ash or residuals generated, treated, s If yes, complete Form R.	stored or land applied?	YES 🗌	NO 🔽
9.	DOWNSTREAM LANDOWNER(S) Attach additional she			
NAME	(PLEASE SHOW LOCATION ON MAP. SEE 8.D ABOVE	Ξ).		
Mr. Rob	ert F. Hopkins			
ADDRESS		CITY	STATE	ZIP CODE
3250 W.	Division St.	Springfield	МО	65802
10.	I certify that I am familiar with the information contained in information is true, complete and accurate, and if granted all rules, regulations, orders and decisions, subject to any Water Law to the Missouri Clean Water Commission.	I this permit, I agree to abide by the Mi	ssouri Clear	n Water Law and
	efficial TITLE (TYPE OR PRINT)	、 TELEPHO イリフ	- 869	- 6633
SIGNATUR	Deertoo Bood	DATE SIC	INED	-13
MO/780-14		IONS ARE COMPLETED AND A		FORMS

IF APPLICABLE, ARE INCLUDED. Submittal of an incomplete application may result in the application being returned.

HAVE YOU INCLUDED:

	Appropriate Fees? Map at 1" = 2000' scale?
台	Signature?
凤	Form C, if applicable?
X	Form D, if applicable?
X	Form 2F, if applicable?
X	Form I (Irrigation), if applicable?
\mathbf{X}	Form R (Sludge), if applicable?





INSTRUCTIONS FOR COMPLETING FORM A APPLICATION FOR CONSTRUCTION OR OPERATING PERMIT

- Check which option is applicable. Do not check more than one item. Construction and operating permit refer to permits issued by the 1. Department of Natural Resources' Water Protection Program, Water Pollution Control Branch. Effective Sept. 1, 2008, a facility will be required to use MISSOURI'S ANTIDEGRADATION RULE AND IMPLEMENTATION PROCEDURE. For more information, this document can be reviewed at www.dnr.mo.gov/env/wpp/docs/aip-cwc-appr-050708.pdf. This procedure will be applicable to new and expanded wastewater facilities and requires the proposed discharge to a water body to undergo a level of Antidegradation Review, which documents that the use of a water body's available assimilative capacity is justified.
- An operating permit and antidegradation review public notice requires a Water Quality/Antidegradation Review Sheet to be submitted with 1.1 the application (No fee required).
 - CONSTRUCTION PERMIT FEES
 - A. \$750 for a sewage treatment facility with a design flow of less than 500,000 gallons per day.
 - \$2,200 for a sewage treatment facility with a design flow of 500,000 gallons per day or more. R
 - Different application and construction fees are applicable if only sewer and/or lift stations are to be constructed.

OPERATING PERMIT FEES

- 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 Non-Categorical 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 STORM WATER DISCHARGE FEES
 - \$1,350 for a design flow under 1 mgd. A.
 - \$2,350 for a design flow of 1 mgd or more. Β.

OPERATING PERMIT MODIFICATIONS, including transfers, are subject to the following fees:

- Municipals \$200 each. A.
- B. All others - 25 percent of annual fee.

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 Mobile 2. 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 10 days to review the draft permit for 3.1 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 www.sos.mo.gov/adrules/csr/current/10csr/10c20-6a.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 with the 6. 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 facility. Global 7.1 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 each outfall. 7.2 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,
- List only your. The SIC system was devised by the 0.5. Commentation of the SIC system was devised by the 0.5. Commentation an applicant may check his or her unemployment insurance forms or contact. The primary SIC code is that of the operation that generates the most revenue. If this information is on the web to runner of employees or, secondly, production rate may be used to determine your SIC code. Additional information is on the web to Standard Industrial Codes at www.osha.gov/pls/imis/sicsearch.html and for the North American Industry Classification System appropriate Department of Natural Resources Regional Office. 7.3





INSTRUCTIONS FOR COMPLETING FORM A APPLICATION FOR CONSTRUCTION OR OPERATING PERMIT (CONTINUED)

- 8. If you answer yes to A, B, C, D, E or F, then you must complete and file the supplementary form(s) indicated. A U.S. Geological 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 on the Web at www.dnr.mo.gov/internetmapviewer/ or from the Missouri Department of Natural Resources' Division of Geology and Land Survey in Rolla at 573-368-2125.
- 9. 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.
- 10. 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 appropriate Regional Office. 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 on the Web 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, Water Pollution Control Branch, Permits and Engineering Section at 573-751-6825.

MO 780-1479 (01-09)



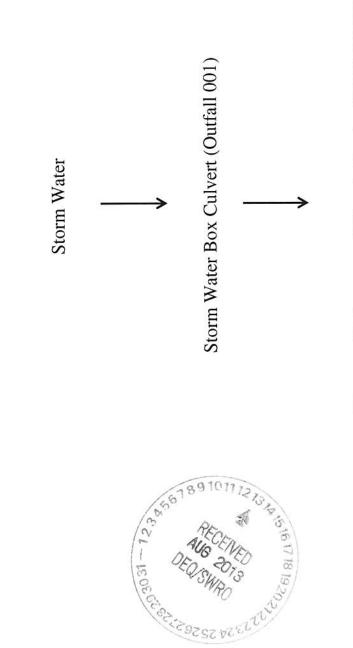
	RECEIVED	Returned no fees
MISSOURI DEPARTMENT OF NATURAL WATER PROTECTION PROGRAM, WATE	RESOURCES UG ~ 7 2013 ER POLLUTION BRANCH	FOR AGENCY USE ONLY
FORM C – APPLICATION FOR DI MANUFACTURING, COMMERCIA SILVICULTURE OPERATIONS, PI	SCHARGE PERMIT –	DATE RECEIVED, FEE SUBMITTED
SILVICULTURE OPERATIONS, PI		
	RM BEFORE READING THE ACCOM	
1.00 NAME OF FACILITY Bob's Scrap Metal Processing		
1.10 THIS FACILITY IS NOW IN OPERATION UNDER MISSOURI OPERATING P R60A155	PERMIT NUMBER	
1.20 THIS IS A NEW FACILITY AND WAS CONSTRUCTED UNDER MISSOURI C PERMIT).	CONSTRUCTION PERMIT NUMBER (COMPLETE ONLY I	IF THIS FACILITY DOES NOT HAVE AN OPERATING
2.00 LIST THE STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES APPLI		
A. FIRST	B. SECOND	···
C. THIRD	D. FOURTH	
2.10 FOR EACH OUTFALL GIVE THE LEGAL DESCRIPTION.	4 SEC 09 T 29N B 22W Gre	eene (077) COUNTY
2.20 FOR EACH OUTFALL LIST THE NAME OF THE RECEIVING WATER		
OUTFALL NUMBER (LIST) 001	RECEIVING WATER Unnamed Tributary (02375)303(d)	200 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =
2.30 BRIEFLY DESCRIBE THE NATURE OF YOUR BUSINESS		
Scrap metal and auto salvage facility		
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	27 13 10 15 16 17 18 10
MO 780-1514 (06-13)		PAGE 1

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	
(LIST)	A. OPERATION (LIST)	B. AVERAGE FLOW (INCLUDE UNITS) (MAXIMUM FLOW)	A. DESCRIPTION	B. LIST CODES FROM TABLE A
001	Storm Water	Unknown	None	N/A
		0010		
		20,567891011121 20,567891011121		
		2 AS	14-15	
		1 A COUL	(617	
		E 000 000	181	
		010713242526256	5	
		10333243289		
MO 780-1514 (06-13)	1			PAGE 2

2.40 A: Schematic of Water Flow over Bob's Scrap Metal Processing



Unnamed Tributary to Wilson's Creek - (02375)303(d)

Monthly Rainfall (findthedata.org)

February March April May
June July August September October November December

Annual Precipitation

44.97 inches



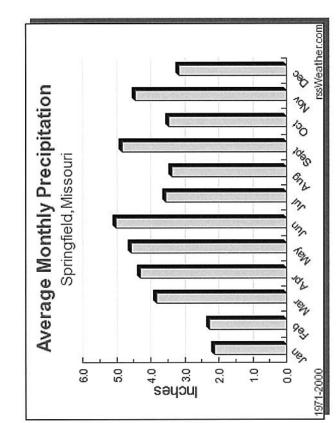
Seasonal Rainf	Seasonal Rainfall (findthedata.org)
Winter	2.74 inches
Spring	4.63 inches

3.92 inches

Summer

3.70 inches

Fall



2.40 CONTINUED

ES (COMPLETE THE FOLLOW	(ING TABLE)	🔽 NO (GO 1	O SECTION 2	.50)				
					4. F	LOW		
		3. FRE	QUENCY	A. FLOW RA	ATE (in mgd)			
2. OPERATION(S) CONTRIBU	JTING 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. DURATION (in days)
	GO TO SECTION 2.6	0)						
	GO TO SECTION 2.6) ENTS AN ACTUA	L MEASUREMEN	IT OF YOUR MAXI			PRESSED IN THE	TERMS
	1. MAX	IMUM QUANTITY						ECTED
DAY B. UNITS OF MEASURE		C. 0F			ETC.			FALLS Il numbers)
NOW REQUIRED BY ANY FEDERAL F WASTEWATER TREATMENT EC ? THIS INCLUDES, BUT IS NOT LI S, COURT ORDERS AND GRANT C	UIPMENT OR PRACTIC MITED TO, PERMIT CON R LOAN CONDITIONS.	ES OR ANY OTH	ER ENVIRONME	NTAL PROGRAMS	THAT MAY AFF	ECT THE DISCHAP	RGES DESCRIBE	D IN THIS LETTERS,
	2. AFFECTED OI	JTFALLS	-			-	4. FINAL COMP	LIANCE DATE
ICATION OF CONDITION	2. AFFECTED OI	JTFALLS	3.	BRIEF DESCRIP	TION OF PROJEC			LIANCE DATE B. PROJECTED
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3.00 INTAKE AND EFFLUENT CHARACTERISTICS	3		
NOTE: TABLE 1 IS INCLUDED ON SE	EPARATE SHEETS NUMBERED FROM PAGE		
C. USE THE SPACE BELOW TO LIST ANY C MAY BE DISCHARGED FROM ANY OUTFAL ANALYTICAL DATA IN YOUR POSSESSION.	L FOR EVERY POLLUTANT YOU LIST. BRIE	THE INSTRUCTIONS, WHICH YOU KNOW OR HA FLY DESCRIBE THE REASONS YOU BELIEVE IT	VE REASON TO BELIEVE IS DISCHARGED OR TO BE PRESENT AND REPORT ANY
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
none	none		
			6789101112
		23	
			DEC ENED 617
MO 780-1514 (06-13)		02030	3
			\$155354525652

CRIBE THEIR PURPOSES BELOW.)	V NO (GO TO 3.20)	
		Control 681 011 12 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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CHMENTS AND THAT, BASED ON N I BELIEVE THAT THE INFORM	I MY INQUIRY OF THOSE INDIVIDUAL ATION IS TRUE, ACCURATE AND CO	S IMMEDIATELY RESPONSIBLE MPLETE. I AM AWARE THAT THEF
	TELEPHO	NE NUMBER WITH AREA CODE
		R (R)) R (R)
Secy.	417 DATE SIG	1-869-6633
	CRIBE THEIR PURPOSES BELOW.) D PERFORMED BY A CONTRACT LABORAT TELEPHONE NUMBER OF AND POLLUTANT B. ADDRESS W THAT I HAVE PERSONALLY EN CHMENTS AND THAT, BASED ON I BE LIEVE THAT THE INFORM	D PERFORMED BY A CONTRACT LABORATORY OR CONSULTING FIRM? TELEPHONE NUMBER OF AND POLLUTANTS ANALYZED BY EACH SUCH LABORATORY OR B. ADDRESS C. TELEPHONE (area code and number C. TELEPHONE (area code and number) W THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH TH CHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUAL N, I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE AND CO SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY O

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	ou may report some	e or all of this e pages.	information on sep.	arate sheet					TABLE 1	FORM C FOR 3.00 IT	FORM C TABLE 1 FOR 3.00 ITEM A AND B		
INTAKE AND EFFLUENT CHARACTERISTICS	IT CHARACTI	ERISTICS									0	OUTFALL NO. 001	
PART A – You must provide the results of at least one analysis for every pollutant in this	e results of at least	one analysis	for every pollutant	table.	mplete one tabl	Complete one table for each outfall. See instructions for additional details.	See instructio	ns for addition	nal details.				
				EFFLU					3. UNITS (specify if blank)	if blank)	4. IN	4. INTAKE (optional)	
1. POLLUTANT	A. MAXIMUM DAILY VALUE	VILY VALUE	B. MAXIMUM 30 DAY (if available)	MAXIMUM 30 DAY VALUE (if available)	C. LONG TI	C. LONG TERM AVRG. VALUE (if available)	-	•			A. LONG TERM AVRG. VALUE	/RG. VALUE	B. NO. OF
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	ION (2) MASS	ANALYSES		TRATION	B. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
A. Biochemical Oxygen Demand (BOD)	Unknown (U)	¬											
B. Chemical Oxygen Demand (COD)	∍	∍											
C. Total organic Carbon (TOC)	∍	5											
D. Total Suspended Solids (TSS)	D	D											
E. Ammonia (as N)	D	Э											
F. Flow	VALUE		VALUE		VALUE						VALUE		
G. Temperature (winter)	VALUE U		VALUE		VALUE				ů		VALUE		
H. Temperature (summer)	VALUE U		VALUE		VALUE				°		VALUE		
I. pH	MINIMUM	MAXIMUM U	WINIMUM	MAXIMUM					STANDARD UNITS	INITS		A DESCRIPTION	
PART B – Mark "X" in column 24 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.	r each pollutant you ki ich outfall. See the in	now or have rea structions for ad	son to believe is prese ditional details and rec	ent. Mark "X" in col quirements.	lumn 2B for each p	ollutant you believe to	o be absent. If y	ou mark column	1 2A for any pollut	ant, you must pi	rovide the results for a	at least one ana	ysis for that
	2. MARK "X"				3. EFFLUENT				4. L	4. UNITS	5.	5. INTAKE (optional)	iai)
1. POLLUTANT AND CAS NUMBER	A.		A. MAXIMUM DAILY VALUE	B. MAXIMUM 30 DAY (if available)	MAXIMUM 30 DAY VALUE (if available)	C. LONG TERM AVRG. VALUE (if available)		D. NO. OF	A. CONCEN-	00VW 0		A. LONG TERM AVRG. VALUE	E B. NO. OF
(if available)	PRESENT ABSENT		CONCENTRATION (2) MASS	(1) CONCENTRATION	N (2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION		(1) CONCENTRATION	TION (2) MASS	54 S
CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS	ONVENTIONAL P	OLLUTANTS											
A. Bromide (24959-67-9)	×												
B. Chlorine, Total Residual	×												
C. Color	×												

30 \$1 250 135452 93 < × × × F. Nitrate - Nitrate (as N) D. Fecal Coliform MO 780-1514 (06-13) E. Fluoride (16984-48-8) C. Color

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	2. MAF	2. MARK "X"			3. 1	3. EFFLUENT				4. UNITS	ITS	5. INTA	5. INTAKE (optional)	
1. POLLUTANT AND CAS NUMBER	A.	ia i	A. MAXIMUM DAILY VALUE	Y VALUE	B. MAXIMUM 30 DAY VALUE (if available)	AY VALUE e)	C. LONG TERM AVRG. VALUE (if available)	rg. value (e)	D. NO. OF	A. CONCEN-	A MASS	A. LONG TERM AVRG. VALUE		B. NO. OF
(si avaiiausis)	PRESENT	BELIEVED	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	2	(1) CONCENTRATION	(2) MASS	ANALYSES
G. Nitrogen, Total Organic (as N)		×												
H. Oil and Grease	×		unknown (U)	Ъ	n	n	n	N						
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)	×		n	n	n	D	D	D						
O. Barium, Total (7440-39-3)		×												
P. Boron, Total (7440-42-8)		×												
Q. Cobalt, Total (7440-48-4)		×												
R. Iron, Total (7439-89-6)	×		D	D	n	D	D	D						
S. Magnesium, Total (7439-95-4)	×		n	U	U	D	D	5						
T. Molybdenum, Total (7439-98-7)	×		n	U	U	n	n	5						
U. Manganese, Total (7439-96-5)	×		D	D	р	n	D	Э						
V. Tin, Total (7440-31-5)	×		D	Э	D	п	n	D						
W. Titanium, Total (7440-32-6)														
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	2. MA	2. MARK "X"			3. 6	3. EFFLUENT				4. UNITS	TS	5. INTA	5. INTAKE (optional)	
1. POLLUTANT AND CAS NUMBER	A.		A. MAXIMUM DAILY VALUE	Y VALUE	B. MAXIMUM 30 DAY VALUE (if available)	AY VALUE e)	C. LONG TERM AVRG. VALUE (if available)		D. NO. OF	A. CONCEN-	D MACC	A. LONG TERM AVRG. VALUE		B. NO. OF
(ii avairauic)	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	0. 11430	(1) CONCENTRATION	(2) MASS	ANALYSES
METALS, AND TOTAL PHENOLS	NOLS													
1M. Antimony, Total (7440-36-9)		×												
2M. Arsenic, Total (7440-38-2)		×												
3M. Beryllium, Total (7440-41-7)		×												
4M. Cadmium, Total (7440-43-9)	×			D										
5M. Chromium III (16065-83-1)		×												
6M. Chromium VI (18540-29-9)		×												
7M. Copper, Total (7440-50-8)	×		Ъ	D										
8M. Lead, Total (7439-92-1)	×		n	D										
9M. Mercury, Total (7439-97-6)		×												
10M. Nickel, Total (7440-02-0)	×		Л	D										
11M. Selenium, Total (7782-49-2)		×												
12M. Silver, Total (7440-22-4)		×												
13M. Thallium, Total (7440-28-0)		×												
14M. Zinc, Total (7440-66-6)	×		n	U										
15M. Cyanide, Amenable to Chlorination		×												
16M. Phenois, Total		×												
RADIOACTIVITY														
(1) Alpha Total		×												
(2) Beta Total		×		20	31-125									
(3) Radium Total		×		C 5250	0	20								
(4) Radium 226 Total		×		222	DEG	189								
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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.

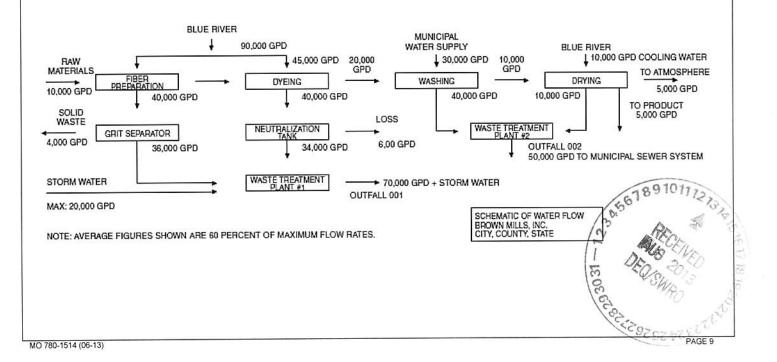
1.00 Name of Facility – By what title or name is this facility known locally?

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	Dialysis	1-N	Microstraining
1-C	Diatomaceous Earth Filtration	1-0	Mixing
1-D	Distillation	1-P	
1-E	Electrodialysis	1-Q	
1-F	Evaporation	1-R	Rapid Sand Filtration
1-G		1-S	
1-H	Flotation	1-T	Screening
1-1	Foam Fractionation	1-U	
1-J	Freezing	1-V	Slow Sand Filtration
1-6 1-K	Gas-Phase Separation	1-W	
1-L	Grinding (Comminutors)	1-X	Sorption
~ I-L	CHEMICAL TREATME		2 Martin State of white the state of the sta
2-A	Carbon Absorption	2-G	Disinfection (Ozone)
2-B	Chemical Oxidation	2-H	Disinfection (Other)
2-C	Chemical Precipitation	2-1	Electrochemical Treatment
2-D	Coagulation	2-J	Ion Exchange
2-E	Dechlorination	2-K	
2-F	Disinfection (Chlorine)	2-L	Reduction
	BIOLOGICAL TREATM	ENT PROCESS	ES
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 PRO	CESSES	
4-A	Discharge to Surface Water	4-C	
4-B	Ocean Discharge Through Outfall	4-D	Underground Injection
	SLUDGE TREATMENT AND	DISPOSAL PRO	CESSES
5-A	Aerobic Digestion	5-M	
5-B	Anaerobic Digestion	5-N	
5-C	Belt Filtration	5-O	Incineration
5-D	Centrifugation	5-P	Land Application
5-E	Chemical Conditioning	5-Q	Landfill
5-F	Chlorine Treatment	5-R	Pressure Filtration
5-G		5-S	Pyrolysis
5-H	Drying Beds	5-T	18910111275 Sludge Lagoons
5-1	Elutriation	5-U	Vacuum Filtration
5-J		5-V	10 De Vibration
5-5 5-K	Freezing	5-W	P Ale Cha Web Oxidation
5-L			1 1 2 2 2 2 2 2
J-L			E - 20/3/13 10
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			10
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- 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).

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CC	DNCENTRATION	M	ASS
maa	parts per million	lbs	
ma/L	milligrams per liter	ton	tons (English tons)
ppb	parts per billion	mg	Milligrams
ua/L	micrograms per liter	g	
-0		kg	kilograms
		Ť	

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 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:

- 1. 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 Diethylamine	Nalad Napthenic acid
HAZARDOUS SUBSTANCES	Dimethylamine Dintrobenzene	Nitrotoluene Parathion
Acetaldehyde Allyl alcohol Allyl chloride Amyl acetate Aniline Benzonitrile Benzyl chloride Butyl acetate Butylamine	Diquat Disulfoton Diuron Epichlorohydrin Ethion Ethylene diamine Ethylene dibromide 0111213 Formaldehyde Furfural Guthion	Phenolsulfonate Phosgene Propargite Propylene oxide Pyrethrins Quinoline Resorcinol Strontium Strychnine Sytrene
Captan	21 AUG 2012 1819	PAGE 13
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TABLE B - (continued)

HAZARDOUS SUBSTANCES

HAZARDOUS SUBSTANCES

Carbaryl Carbofuran Carbon disulfide Chlorpyrifos Coumaphos Cresol Crotonaldehyde 2,4-D (2,4-Dichloro-Phenoxyacetic acid) Diazinon Dicamba Dichlobenil 2,2-Dichloropropionic acid Isoprene Isopropanolamine Kelthane Kepone Malathion Mercaptodimethur Methoxychlor Methyl mercaptan Methyl parathion Mevinphos Mexacarbate Monethyl amine 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.

