



PUBLIC NOTICE

DRAFT MISSOURI STATE OPERATING PERMIT

DATE: February 16, 2024

In accordance with the state Clean Water Law, Chapter 644, RSMo, Missouri Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state, or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years unless noted otherwise in the Public Notice for that discharge.

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

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to: Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102-0176, ATTN: NPDES Operating Permits /Permit Comments. **Please include the permit number in all comment letters.**

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The department may not consider as relevant comments or objections to a permit based on issues outside the authority of the Missouri Clean Water Commission, (see Curdt v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be received or postmarked by 5 p.m. on March 18, 2024. The department will consider all written comments including emails, faxes, and letters in the formulation of all final determinations regarding the applications. Email comments will be accepted at the following address: publicnoticenpdes@dnr.mo.gov. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at the department's website at <https://dnr.mo.gov/water/what-were-doing/public-notices>, or at Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102-0176, between the hours of 8 a.m. and 5 p.m. on Monday through Friday.

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law (Chapter 644 RSMo, hereinafter, the Law).

Permit No. MO-0140244

Owner: Synagro Central, LLC
Address: 435 Williams Court, Suite 100, Baltimore, MD 21220

Continuing Authority: Same as above
Address: Same as above

Facility Name: Synagro – SW Missouri Land Application Program
Facility Address: Hwy 37 / FR 1095, Cassville, MO 65625

Legal Description: See following page(s)
UTM Coordinates: See following page(s)

Receiving Stream: See following page(s)
First Classified Stream and ID: See following page(s)
USGS Basin & Sub-watershed No.: See following page(s)

authorizes activities pursuant to the terms and conditions of this permit in accordance with the Missouri Clean Water Law; it does not apply to other regulated activities.

FACILITY DESCRIPTION

No-Discharge Facility; SIC code #0711

Effective Date

Expiration Date

John Hoke, Director, Water Protection Program

FACILITY DESCRIPTION (CONTINUED)

The Synagro – SW Missouri Land Application Program is a land application only program that provides area landowners with crop nutrients available in food/poultry processing wastewater residuals. These residuals are applied at agronomic rates in accordance with University of Missouri Extension recommendations and procedures. Please see Special Conditions E. 8 and 12 for additional material limitations.

PERMITTED FEATURE #001 – Land Application Field BR-3-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description:	NW¼, Sec.18, T23N, R27W, Barry County
UTM Coordinates (Centroid):	X = 420677, Y = 4063144
USGS Basin & Sub-watershed No.:	(11010001-0805)
Application Rate Basis:	Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type:	Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type:	Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum:	12%
Application Area:	21 total available acres

PERMITTED FEATURE #002 – Land Application Field BR-3-3; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description:	NW¼, Sec.18, T23N, R27W, Barry County
UTM Coordinates (Centroid):	X = 420590, Y = 4063183
USGS Basin & Sub-watershed No.:	(11010001-0805)
Application Rate Basis:	Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type:	Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type:	Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum:	12%
Application Area:	37 total available acres

PERMITTED FEATURE #003 – Land Application Field BR-3-6; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description:	NW¼, Sec.7, T23N, R27W, Barry County
UTM Coordinates (Centroid):	X = 419901, Y = 4064981
USGS Basin & Sub-watershed No.:	(11010001-0805)
Application Rate Basis:	Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type:	Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type:	Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum:	12%
Application Area:	100 total available acres

PERMITTED FEATURE #004 – Land Application Field BR-3-7; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description:	NW¼, Sec.10, T23N, R28W, Barry County
UTM Coordinates (Centroid):	X = 419901, Y = 4064982
USGS Basin & Sub-watershed No.:	(11010001-0805)
Application Rate Basis:	Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type:	Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type:	Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum:	12%
Application Area:	87 total available acres

PERMITTED FEATURE #005 – Land Application Field BR-3-8; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.15, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 416014, Y = 4062373
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 31 total available acres

PERMITTED FEATURE #006 – Land Application Field BR-3-9; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.31, T23N, R27W, Barry County
UTM Coordinates (Centroid): X = 420574, Y = 4058448
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 18.5 total available acres

PERMITTED FEATURE #007 – Land Application Field BR-3-10; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.16, T22N, R28W, Barry County
UTM Coordinates (Centroid): X = 413578, Y = 4053947
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 85 total available acres

PERMITTED FEATURE #008 – Land Application Field BR-3-11; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.1, T22N, R29W, Barry County
UTM Coordinates (Centroid): X = 409363, Y = 4056018
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 191 total available acres

PERMITTED FEATURE #009 – Land Application Field BR-3-12; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.16, T22N, R28W, Barry County
UTM Coordinates (Centroid): X = 413285, Y = 4053378
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 37 total available acres

PERMITTED FEATURE #010 – Land Application Field BR-3-13; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.16, T22N, R28W, Barry County
UTM Coordinates (Centroid): X = 413056, Y = 4053280
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 40 total available acres

PERMITTED FEATURE #011 – Land Application Field BR-3-14; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.12, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 419631, Y = 4063610
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 13.5 total available acres

PERMITTED FEATURE #012 – Land Application Field BR-3-15; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.12, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 419585, Y = 4065081
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 40 total available acres

PERMITTED FEATURE #013 – Land Application Field BR-3-16; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.6, T23N, R27W, Barry County
UTM Coordinates (Centroid): X = 419803, Y = 4065254
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 7.5 total available acres

PERMITTED FEATURE #014 – Land Application Field BR-3-17; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.32, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 416411, Y = 4058360
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 94 total available acres

PERMITTED FEATURE #015 – Land Application Field BR-3-18; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.32, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 416430, Y = 4060246
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 26 total available acres

PERMITTED FEATURE #016 – Land Application Field BR-3-19; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.22, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 416123, Y = 4060613
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 5 total available acres

PERMITTED FEATURE #017 – Land Application Field BR-3-20; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.22, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 416130, Y = 4060774
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 71 total available acres

PERMITTED FEATURE #018 – Land Application Field BR-3-21; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.27, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 415858, Y = 4059169
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 7 total available acres

PERMITTED FEATURE #019 – Land Application Field BR-3-22; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.27, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 415651, Y = 4059136
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 27 total available acres

PERMITTED FEATURE #020 – Land Application Field BR-3-23; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.13, T23N, R29W, Barry County
UTM Coordinates (Centroid): X = 408660, Y = 4063122
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 24 total available acres

PERMITTED FEATURE #021 – Land Application Field BR-4-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.26, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 416552, Y = 4059437
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 24 total available acres

PERMITTED FEATURE #022 – Land Application Field BR-5-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.26, T24N, R27W, Barry County
UTM Coordinates (Centroid): X = 427488, Y = 4069538
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 58 total available acres

PERMITTED FEATURE #023 – Land Application Field BR-6-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.17, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 412715, Y = 4062076
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 84 total available acres

PERMITTED FEATURE #024 – Land Application Field BR-6-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description:	E½, Sec.20, T23N, R28W, Barry County
UTM Coordinates (Centroid):	X = 412899, Y = 4061234
USGS Basin & Sub-watershed No.:	(11010001-0805)
Application Rate Basis:	Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type:	Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type:	Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum:	12%
Application Area:	101 total available acres

PERMITTED FEATURE #025 – Land Application Field BR-6-3; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description:	SW¼, Sec.20, T23N, R28W, Barry County
UTM Coordinates (Centroid):	X = 412184, Y = 4060844
USGS Basin & Sub-watershed No.:	(11010001-0805)
Application Rate Basis:	Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type:	Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type:	Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum:	12%
Application Area:	32 total available acres

PERMITTED FEATURE #026 – Land Application Field BR-6-4; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description:	SW¼, Sec.23, T23N, R28W, Barry County
UTM Coordinates (Centroid):	X = 416900, Y = 4060691
USGS Basin & Sub-watershed No.:	(11010001-0805)
Application Rate Basis:	Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type:	Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type:	Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum:	12%
Application Area:	79 total available acres

PERMITTED FEATURE #027 – Land Application Field BR-6-5; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description:	SE¼, Sec.13, T23N, R28W, Barry County
UTM Coordinates (Centroid):	X = 418979, Y = 4062299
USGS Basin & Sub-watershed No.:	(11010001-0805)
Application Rate Basis:	Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type:	Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type:	Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum:	12%
Application Area:	24 total available acres

PERMITTED FEATURE #028 – Land Application Field BR-6-6; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description:	SE¼, Sec.13, T23N, R28W, Barry County
UTM Coordinates (Centroid):	X = 419437, Y = 4062217
USGS Basin & Sub-watershed No.:	(11010001-0805)
Application Rate Basis:	Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type:	Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type:	Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum:	12%
Application Area:	52 total available acres

PERMITTED FEATURE #029 – Land Application Field BR-6-7; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.18, T23N, R27W, Barry County
UTM Coordinates (Centroid): X = 419786, Y = 4062627
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 86 total available acres

PERMITTED FEATURE #030 – Land Application Field BR-6-8; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.9, T22N, R27W, Barry County
UTM Coordinates (Centroid): X = 423969, Y = 4054139
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 100 total available acres

PERMITTED FEATURE #031 – Land Application Field BR-6-9; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.10, T22N, R27W, Barry County
UTM Coordinates (Centroid): X = 425186, Y = 4054086
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 171 total available acres

PERMITTED FEATURE #032 – Land Application Field BR-6-10; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.10, T22N, R27W, Barry County
UTM Coordinates (Centroid): X = 424947, Y = 4054743
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 70 total available acres

PERMITTED FEATURE #033 – Land Application Field BR-6-11; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.26, T21N, R28W, Barry County
UTM Coordinates (Centroid): X = 424818, Y = 4039870
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 84 total available acres

PERMITTED FEATURE #034 – Land Application Field BR-7-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.19, T23N, R27W, Barry County
UTM Coordinates (Centroid): X = 420067, Y = 4060764
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 39 total available acres

PERMITTED FEATURE #035 – Land Application Field BR-8-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.36, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 418956, Y = 4058710
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 73 total available acres

PERMITTED FEATURE #036 – Land Application Field BR-8-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.31, T23N, R27W, Barry County
UTM Coordinates (Centroid): X = 419746, Y = 4058301
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 44 total available acres

PERMITTED FEATURE #037 – Land Application Field BR-9-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.16, T22N, R27W, Barry County
UTM Coordinates (Centroid): X = 423525, Y = 4053334
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 121 total available acres

PERMITTED FEATURE #038 – Land Application Field BR-9-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.16, T22N, R27W, Barry County
UTM Coordinates (Centroid): X = 422783, Y = 4053724
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 31 total available acres

PERMITTED FEATURE #039 – Land Application Field BR-9-3; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.16, T22N, R27W, Barry County
UTM Coordinates (Centroid): X = 422765, Y = 4053392
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 21 total available acres

PERMITTED FEATURE #040 – Land Application Field BR-9-4; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.3, T22N, R27W, Barry County
UTM Coordinates (Centroid): X = 424690, Y = 4055986
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 93 total available acres

PERMITTED FEATURE #041 – Land Application Field BR-10-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.30, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 411195, Y = 4059746
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 42 total available acres

PERMITTED FEATURE #042 – Land Application Field BR-10-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.29, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 411635, Y = 4059120
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 36 total available acres

PERMITTED FEATURE #043 – Land Application Field BR-10-3; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.29, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 411889, Y = 4059461
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 28 total available acres

PERMITTED FEATURE #044 – Land Application Field BR-10-4; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.29, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 412204, Y = 4051869
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 96 total available acres

PERMITTED FEATURE #045 – Land Application Field BR-11-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.26, T21N, R28W, Barry County
UTM Coordinates (Centroid): X = 416711, Y = 4039844
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 30 total available acres

PERMITTED FEATURE #046 – Land Application Field BR-11-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.26, T21N, R28W, Barry County
UTM Coordinates (Centroid): X = 416773, Y = 4040142
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 46 total available acres

PERMITTED FEATURE #047 – Land Application Field BR-11-3; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.26, T21N, R28W, Barry County
UTM Coordinates (Centroid): X = 413540, Y = 4053321
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 33 total available acres

PERMITTED FEATURE #048 – Land Application Field BR-12-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.14, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 416640, Y = 4063132
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 23 total available acres

PERMITTED FEATURE #049 – Land Application Field BR-13-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.13, T24N, R28W, Barry County
UTM Coordinates (Centroid): X = 417660, Y = 4072028
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 85 total available acres

PERMITTED FEATURE #050 – Land Application Field BR-13-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.30, T25N, R27W, Barry County
UTM Coordinates (Centroid): X = 416523, Y = 4078142
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 88 total available acres

PERMITTED FEATURE #051 – Land Application Field BR-13-3; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.30, T25N, R27W, Barry County
UTM Coordinates (Centroid): X = 416950, Y = 4078655
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 26 total available acres

PERMITTED FEATURE #052 – Land Application Field BR-13-4; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.31, T25N, R27W, Barry County
UTM Coordinates (Centroid): X = 416452, Y = 4086768
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 16 total available acres

PERMITTED FEATURE #053 – Land Application Field BR-14-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.13, T23N, R29W, Barry County
UTM Coordinates (Centroid): X = 409524, Y = 4063029
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 29 total available acres

PERMITTED FEATURE #054 – Land Application Field BR-14-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.13, T23N, R29W, Barry County
UTM Coordinates (Centroid): X = 409914, Y = 4062933
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 33 total available acres

PERMITTED FEATURE #055 – Land Application Field BR-15-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.4, T25N, R28W, Barry County
UTM Coordinates (Centroid): X = 410707, Y = 4085806
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 33 total available acres

PERMITTED FEATURE #056 – Land Application Field BR-15-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.4, T25N, R28W, Barry County
UTM Coordinates (Centroid): X = 410707, Y = 4085399
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 63 total available acres

PERMITTED FEATURE #057 – Land Application Field BR-15-3; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.4, T25N, R28W, Barry County
UTM Coordinates (Centroid): X = 410926, Y = 4085005
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 95 total available acres

PERMITTED FEATURE #058 – Land Application Field BR-16-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.15, T25N, R28W, Barry County
UTM Coordinates (Centroid): X = 415911, Y = 4053657
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 88 total available acres

PERMITTED FEATURE #059 – Land Application Field BR-17-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.3, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 415839, Y = 4066806
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 15 total available acres

PERMITTED FEATURE #060 – Land Application Field BR-17-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.3, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 416098, Y = 4066556
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 8 total available acres

PERMITTED FEATURE #061 – Land Application Field BR-17-3; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.3, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 415949, Y = 4066243
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 20 total available acres

PERMITTED FEATURE #062 – Land Application Field BR-18-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.5, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 413138, Y = 4066821
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 21 total available acres

PERMITTED FEATURE #063 – Land Application Field BR-18-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.5, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 413407, Y = 4066818
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 12 total available acres

PERMITTED FEATURE #064 – Land Application Field BR-18-3; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.5, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 413136, Y = 4066450
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 26 total available acres

PERMITTED FEATURE #065 – Land Application Field BR-18-4; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.5, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 413119, Y = 4066015
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 20 total available acres

PERMITTED FEATURE #066 – Land Application Field BR-19-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.11, T23N, R28W, Barry County
UTM Coordinates (Centroid): X = 417615, Y = 4065166
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 13 total available acres

PERMITTED FEATURE #067 – Land Application Field BR-20-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.18, T23N, R27W, Barry County
UTM Coordinates (Centroid): X = 419955, Y = 4063481
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 19 total available acres

PERMITTED FEATURE #068 – Land Application Field MD-1-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.31, T21N, R33W, McDonald County
UTM Coordinates (Centroid): X = 362185, Y = 4040906
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 43 total available acres

PERMITTED FEATURE #069 – Land Application Field MD-1-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.32, T21N, R33W, McDonald County
UTM Coordinates (Centroid): X = 362537, Y = 4040943
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 64 total available acres

PERMITTED FEATURE #070 – Land Application Field MD-2-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.32, T21N, R33W, McDonald County
UTM Coordinates (Centroid): X = 360940, Y = 4042378
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 15 total available acres

PERMITTED FEATURE #071 – Land Application Field MD-3-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NW¼, Sec.32, T21N, R33W, McDonald County
UTM Coordinates (Centroid): X = 362696, Y = 4041672
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 9 total available acres

PERMITTED FEATURE #072 – Land Application Field MD-3-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.32, T21N, R33W, McDonald County
UTM Coordinates (Centroid): X = 362566, Y = 4041366
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 24 total available acres

PERMITTED FEATURE #073 – Land Application Field MD-3-3; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.32, T21N, R33W, McDonald County
UTM Coordinates (Centroid): X = 362913, Y = 4041267
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 34 total available acres

PERMITTED FEATURE #074 – Land Application Field MD-4-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.19, T21N, R34W, McDonald County
UTM Coordinates (Centroid): X = 361496, Y = 4044466
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 90 total available acres

PERMITTED FEATURE #075 – Land Application Field MD-4-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.25, T21N, R34W, McDonald County
UTM Coordinates (Centroid): X = 360472, Y = 4042663
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 37 total available acres

PERMITTED FEATURE #076 – Land Application Field MD-5-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.36, T21N, R34W, McDonald County
UTM Coordinates (Centroid): X = 360395, Y = 4041000
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 72 total available acres

PERMITTED FEATURE #077 – Land Application Field MD-6-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.20, T21N, R33W, McDonald County
UTM Coordinates (Centroid): X = 363863, Y = 4054641
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 116 total available acres

PERMITTED FEATURE #078 – Land Application Field MD-7-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.31, T21N, R33W, McDonald County
UTM Coordinates (Centroid): X = 362303, Y = 4079068
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 54 total available acres

PERMITTED FEATURE #079 – Land Application Field MD-7-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: NE¼, Sec.31, T21N, R33W, McDonald County
UTM Coordinates (Centroid): X = 361785, Y = 4042344
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 6 total available acres

PERMITTED FEATURE #080 – Land Application Field MD-7-3; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.21, T21N, R33W, McDonald County
UTM Coordinates (Centroid): X = 364341, Y = 4044024
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 23 total available acres

PERMITTED FEATURE #081 – Land Application Field MD-8-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.36, T21N, R34W, McDonald County
UTM Coordinates (Centroid): X = 360614, Y = 4040691
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 16 total available acres

PERMITTED FEATURE #082 – Land Application Field MD-9-1; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SW¼, Sec.31, T21N, R33W, McDonald County
UTM Coordinates (Centroid): X = 360971, Y = 4041038
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 31 total available acres

PERMITTED FEATURE #083 – Land Application Field NT-3-2; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description: SE¼, Sec.19, T24N, R31W, McDonald County
UTM Coordinates (Centroid): X = 383008, Y = 4072424
USGS Basin & Sub-watershed No.: (11010001-0805)
Application Rate Basis: Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type: Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type: Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum: 12%
Application Area: 102 total available acres

PERMITTED FEATURE #084 – Land Application Field NT-3-3; land applied wastewater, sludge, or solids must meet an agronomic use as identified below; any application not meeting the below conditions would remove the exemption for agricultural stormwater discharges.

Legal Description:	SE¼, Sec.19, T24N, R31W, McDonald County
UTM Coordinates (Centroid):	X = 383574, Y = 4071619
USGS Basin & Sub-watershed No.:	(11010001-0805)
Application Rate Basis:	Hydraulic/ Nutrient/ Pollutant Loading
Vegetation Type:	Grass/Pasture/Crop: barley, soybeans, corn, oats, ryegrass, sorghum, wheat, mixed grass
Equipment Type:	Tractor and buggy with plows or splash plates / sprinklers / traveling gun
Field Slope, Maximum:	12%
Application Area:	42 total available acres

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

TABLE A-1		PROCESS WASTEWATER MONITORING FOR LAND IRRIGATION FROM FACILITIES NOT PERMITTED IN MISSOURI			
The facility is not authorized to discharge from this feature. The final requirements shall become effective on Effective Date and remain in effect until expiration of the permit. This feature shall be monitored and operationally controlled by the facility as specified below:					
MONITORING PARAMETERS	UNITS	MONITORING REQUIREMENTS			
		DAILY MAXIMUM	MONTHLY AVERAGE	MINIMUM MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: IW					
Total Nitrogen	mg/L	*		once/quarter	grab
Phosphorus	mg/L	*		once/quarter	grab
Total Sodium	mg/L	*		once/quarter	grab
Percent Solids	%	*		once/quarter	grab
Chloride	mg/L	*		once/quarter	grab
Fecal Coliform	#/100mL	2,000,000		once/quarter	grab
pH †	mg/L	*		once/quarter	grab
Oil and Grease	mg/L	*		once/quarter	grab
Aluminum	mg/kg	4,000		once/quarter	grab
Arsenic	mg/kg	41		once/quarter	grab
Barium	mg/kg	*		once/quarter	grab
Boron	mg/kg	*		once/quarter	grab
Cadmium	mg/kg	39		once/quarter	grab
Chromium	mg/kg	*		once/quarter	grab
Copper	mg/kg	1,500		once/quarter	grab
Lead	mg/kg	300		once/quarter	grab
Mercury	mg/kg	17		once/quarter	grab
Nickel	mg/kg	420		once/quarter	grab
Selenium	mg/kg	100		once/quarter	grab
Silver	mg/kg	*		once/quarter	grab
Thallium	mg/kg	*		once/quarter	grab
Zinc	mg/kg	2,800		once/quarter	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> VIA THE DEPARTMENT’S eDMR SYSTEM. THE FIRST REPORT IS DUE MONTH 28 20xx . IT IS A VIOLATION OF THIS PERMIT TO FAIL TO SAMPLE.					

TABLE A-2		PROCESS WASTEWATER MONITORING FOR LAND IRRIGATION FROM FACILITIES PERMITTED IN MISSOURI			
The facility is not authorized to discharge from this feature. The final requirements shall become effective on Effective Date and remain in effect until expiration of the permit. This feature shall be monitored and operationally controlled by the facility as specified below:					
MONITORING PARAMETERS	UNITS	MONITORING REQUIREMENTS			
		DAILY MAXIMUM	MONTHLY AVERAGE	MINIMUM MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: IW					
Total Nitrogen	mg/L	*		once/year	grab
Phosphorus	mg/L	*		once/year	grab
Total Sodium	mg/L	*		once/year	grab
Percent Solids	%	*		once/year	grab
Chloride	mg/L	*		once/year	grab
Fecal Coliform	#/100mL	2,000,000		once/year	grab
pH †	mg/L	*		once/year	grab
Oil and Grease	mg/L	*		once/year	grab
Aluminum	mg/kg	4,000		once/year	grab
Arsenic	mg/kg	41		once/year	grab
Barium	mg/kg	*		once/year	grab
Boron	mg/kg	*		once/year	grab
Cadmium	mg/kg	39		once/year	grab
Chromium	mg/kg	*		once/year	grab
Copper	mg/kg	1,500		once/year	grab
Lead	mg/kg	300		once/year	grab
Mercury	mg/kg	17		once/year	grab
Nickel	mg/kg	420		once/year	grab
Selenium	mg/kg	100		once/year	grab
Silver	mg/kg	*		once/year	grab
Thallium	mg/kg	*		once/year	grab
Zinc	mg/kg	2,800		once/year	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> VIA THE DEPARTMENT’S eDMR SYSTEM. THE FIRST REPORT IS DUE MONTH 28 20xx . IT IS A VIOLATION OF THIS PERMIT TO FAIL TO SAMPLE.					

Permitted Features #001 - #084	TABLE A-3 LAND APPLICATION OPERATIONAL MONITORING REQUIREMENTS (LIQUID) FOR PERMITTED LAND APPLICATION FIELDS <i>(does not include low volume land application fields – see Subdivision C-2)</i>				
	The facility is authorized to conduct land application of process wastewater as specified in this permit. The land application of process wastewater shall be controlled, limited, and monitored by the facility as specified below:				
PARAMETERS	UNITS	FINAL EFFLUENT LIMITATIONS		MONITORING REQUIREMENTS	
		DAILY MAXIMUM	MONTHLY AVERAGE	MINIMUM MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: A					
Volume Applied	gallons	*	-	once/month	grab
Application Area	acres	*	-	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE MONTH 28, 20XX.					

* Monitoring and reporting requirement only

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

B. LAND APPLICATION CONDITIONS

1. Surficial land application of wastewater listed in the Facility Description of this permit is authorized and shall be conducted according to the following conditions. These land application conditions do not apply to fertilizer products receiving a current exemption under the Missouri Clean Water Law and regulations in 10 CSR 20-6.015(3)(B)8, and are land applied in accordance with the exemption. The minimum application requirements enumerated here, when followed, exempt stormwater runoff sampling requirements pursuant to 10 CSR 20-6.200(2)(B)3.B.
2. All land application of wastewater shall be conducted by Synagro or its contractors.
3. The following setbacks apply to surface land application. All land application setbacks must be identified with flags or other physical markers. This permit does not authorize land application:
 - (a) Within 300 feet of a Class W or mitigated wetland,
 - (b) Within 300 feet of any potable water supply well not located on the property, adequate protections shall be implemented and maintained for any potable water supply well located within the application area;
 - (c) Within 300 feet upstream of streams, lakes, or reservoirs with the designated use of drinking water supply, any public or privately owned well, or other drinking water supply;
 - (d) Within 100 feet of any classified perennial or intermittent streams or tributaries, public or privately owned ponds or lakes;
 - (e) Within 300 feet of sinkholes, losing streams, or any other physiographic structure with direct conduit to groundwater;
 - (f) Within 500 feet of an Outstanding State Resource Water or Outstanding Nation Resource Water;
 - (g) Within 1,000 feet upstream of streams, lakes, or reservoirs identified as critical habitat for endangered species;
 - (h) Within 1,000 feet upstream of biocriteria reference locations.
 - (i) Within 150 feet of an occupied residence, public building, or public use area; or
 - (j) Within 50 feet of the property line, public road, or drainage ditch.
 - (k) Within the 10 year floodplain.
4. Land Application Equipment Minimum Requirements
 - (a) Spray application equipment shall minimize the formation of aerosols.
 - (b) Application equipment shall be visually inspected daily during land application to check for equipment malfunctions and leaks. The application system shall be operated so as to provide uniform distribution of wastes over the entire land application site.
 - (c) Equipment shall be calibrated at least once per calendar year to ensure even distribution of wastewater.
5. Land Application Field(s) Minimum Requirements
 - (a) No land application shall occur when the soil or ground is frosted, frozen, snow covered, or saturated. Saturated soil will hold the shape of any object when pressure is applied (ie: boot prints). Daily observation of fields is required. Application activities shall cease if these conditions occur.
 - (b) There shall be no application during a precipitation event or if a precipitation event of 50% chance is forecasted to occur within 24 hours of a planned application. Additionally, plan accordingly for any forecast for a storm or significant rain event. Runoff is always prohibited.
 - (c) Public Access Restrictions; this permit does not authorize application of wastewater to public use areas.
 - (d) If land application sites listed in this permit are also included as land application sites in another permit, the wastewater and sludge applications from all sources shall be included in the application rates in the facility description. Records from all sources must be kept for all permits.
 - (e) The applicant shall defer grazing or harvesting of forage crops, in accordance with 10 CSR 20-8.200(6)(E), as follows (these requirements apply to fields under the operational control of the permittee and must be communicated to owners of fields not under operational control of the permittee):
 - (1) May 1 to October 31, the minimum grazing or forage harvest deferment shall be fourteen (14) days from application;
 - (2) November 1 to April 30, the minimum grazing or forage harvest deferment shall be thirty (30) days from application.
 - (f) Land application fields shall be checked daily during land application for runoff.
 - (g) Sites utilizing spray irrigation shall monitor for the drifting of spray across property lines. Spray drift is not permissible.
6. Application Rate(s) and Loading
 - (a) This permit does not authorize application of materials in concentrations known to cause, or having the potential to cause, phytotoxicity in plants per 10 CSR 20-6.015(4)1. If plant stress is observed, the facility may need to reduce application of wastewaters. If phytotoxicity is observed, the facility shall cease land application activities and evaluate the applied substances to determine the cause of phytotoxicity.
 - (b) Wastewater application shall not exceed one inch (1") per day, three inches (3") per week, or twenty-four inches (24") per year.
 - (c) Wastewater application on slopes exceeding 10%:
 - (1) The application rate shall not exceed one inch per day (1"/day)

- (2) In no case shall exceed one-half (1/2) inch per hour.
- (d) Sludge, Semi-solids and Solid-laden wastewater application
 - (1) These materials may be applied to build soil, amend soil, improve drainage, provide nutrients, provide micronutrients, increase oxygenation, provide slow release nutrients, or for substrate for microbes.
 - (2) Material shall be spread evenly on to the surface.
 - (3) Dissolved Air Flootation (DAF) skimmings must be knifed in, chiseled in, or tilled in.
 - (4) Between seeding/planting and harvest, solids depth can be no more than 1/4 inch immediately after land application. At all other times, depth of solids cannot exceed 1/2 inch immediately after land application.
- (e) Applications shall not exceed any agronomic rates listed in the facility description to ensure plant use of nutrients and prevent contamination of surface and groundwater. The agronomic rate is the amount of wastewater applied to a field to meet the fertilization needs of the plants.
- (f) Runoff and ponding is prohibited.
- (g) This permit does not authorize land disposal or the application of hazardous waste.
- (h) The facility must maintain a record of all fertilizer products applied to fields by the permittee; even exempted products, to determine total nutrient loading.
- (i) The fertilizer recommendation shall be based on all of the following:
 - (1) The nutrient recommendation (nitrogen or phosphorus) for each crop. Recommendations can be found in University of Missouri Extension Guide EQ202 Crop/Nutrient Considerations for Biosolids or from publications by other land grant universities in adjoining states,
 - (2) Realistic yield goal for each crop. Yield goals must be based on actual crop yield records from multiple years for each field. Good judgment must be used to counteract unusually high or low yields. If a field's yield history is not available, the USDA county wide average or other approved source may be used, and
 - (3) The most recent soil test.
- (j) Application shall be conducted according to one of the following nutrient based management practices. The facility must avoid over-application of both Nitrogen and Phosphorus simultaneously by choosing the more stringent application method of those listed below.
 - (1) Nitrogen:
 - i. Plant Available Nitrogen (PAN) based application. This method can be used on fields where the University of Missouri Agricultural Extension Center Soil Test Report has a phosphorus rating of medium, low, or very low. The amount of wastewater and/or sludge to be applied shall be adjusted annually for each material applied based on the PAN calculation using the current wastewater and/or sludge nutrient analysis and the following:
 - ii. For non-legume crops, the nitrogen fertilizer recommendation shall be adjusted to account for nitrogen credits from a preceding legume crop and residual nitrogen from the previous year's application. Nitrogen removal rates can be found in WQ430.
 - iii. For legume crops, the nitrogen removal capacity of the legume crops must be based on the estimated nitrogen content of the harvested crop as defined in WQ430 and a realistic yield goal. The estimated nitrogen content of the crop must be adjusted using nitrogen credits for residual nitrogen fertilizer from the previous year's application.
 - iv. $PAN = [Ammonia\ Nitrogen \times volatilization\ factor^*] + [Organic\ Nitrogen \times 0.2] + [Nitrate\ Nitrogen]$
*Volatilization factor is 0.7 for surface application and 1 for subsurface application.
 - v. The amount of wastewater and/or sludge applied shall not exceed the nitrogen fertilizer recommendation or the estimated nitrogen removal capacity of the planned crop during the year of the application;
 - (2) Phosphorus:
 - i. This method must be used on fields where the University of Missouri Agricultural Extension Center Soil Test Report has a phosphorus rating of high. The amount of wastewater and/or sludge to be applied shall be adjusted annually based the phosphorus content of the current wastewater and/or sludge nutrient analysis and may be applied according to one of the following methods;
 - ii. The annual amount of phosphorus applied shall not exceed the planned crop's phosphorus removal estimate from WQ430, or from other publications from the University of Missouri Agricultural Extension Center; or,
 - iii. Multi-year phosphorus applications are only available on fields under the full operational control of Synagro Central, LLC and where a multi-year field management plan has been developed. Wastewater and/or sludge applications can exceed the annual planned phosphate removal estimate for the crop when a multi-year phosphorus application is utilized and the P-Index rating is low or medium. The multi-year application must comply with the following conditions:
 - (a) The amount of phosphorus banked shall not exceed four years of the estimated crop removal rate for the planned crop rotation;
 - (b) The actual application rate shall not exceed the multi-year application rate; and
 - (c) No additional applications shall occur until the applied phosphorus has been removed from the field by crop removal or harvest.
 - (d) No land application can occur if the soil test for a field has a phosphorus rating that is "very high" or "excess".

7. Low Volume Fields application

- (a) Low volume application rate is defined as less than two acre inches per year.
- (b) Land application must not exceed agronomic rates.
- (c) Prior approval from the department is not required to add additional low volume land application sites as recordkeeping and reporting is required in accordance with Subdivision C-2.
- (d) Annual soil analysis is not required for low volume fields.

8. For materials taken directly from a source to a land application field, the materials must be sampled and meet all of the pollutant concentrations listed in Table A-1. These materials must be land applied in accordance with all relevant permit terms and conditions, including land application practices, recordkeeping and reporting.

9. Soil Monitoring – Required for Permitted Land Application Fields (not Low Volume Fields)

- (a) Composite soil samples shall be collected annually prior to land application, or after harvest is complete from each field where land application has occurred in the last 12 months, excluding low volume fields. No land application shall occur on fields listed in this permit if soil sample results are more than one year old.
- (b) Soil sampling shall be in accordance with University of Missouri (MU) Guides G9215, Soil Sampling Pastures or G9217, Soil Sampling Hayfields and Row Crops or other methods approved by the Department. The recommendation of one composite sample per 20 acres in G9215 and G9217 is not required by this permit, however, this is a useful method to identify soil fertility fluctuations in large fields due to past management practices, soil type, and variability of crop yields. There shall be at least one composite sample per 80 acres.
- (c) Soil nutrient analysis must be conducted using the University of Missouri Extension Center Soil Testing Laboratory and must include an accurate assessment of future agronomic use. Land application may not occur on any field where the soil test report indicates that the phosphorus rating is very high or excess or where a current soil test report based on accurate planned field usage is not available.
- (d) All other testing shall conform to Recommended Chemical Soil Testing Procedures for North Central Region (North Central Regional Research Publication No. 221 Revised), or Soil Testing in Missouri (MU Extension Guide EC923), or other methods approved by the Department.
- (e) This sampling protocol and results shall be used to establish land application agronomic rates in accordance with 6(j) above in this subdivision.

C. RECORD KEEPING CONDITIONS

1. The following record keeping shall occur, be maintained for at least five years, be made available to the Department upon request, and shall be submitted with the application for renewal.

- (a) Daily land application log showing, at a minimum: date(s) of application, field identified, volume and material applied, time forecast was checked, current and next day percent chance of precipitation, and time of ending land application.
- (b) Monthly visual storage structure inspections (if applicable);
- (c) Liquid transfer and land application equipment inspections and calibrations;
- (d) Permitted land application field inspections, including runoff, saturation, and ponding;
- (e) Record of maintenance and repairs for the land application equipment that conveys wastewater;
- (f) Description of any unusual operating conditions encountered, narrative summary of any problems or deficiencies identified, corrective action taken, or improvements planned;
- (g) Annual samples for each wastewater source shall be obtained and submitted to the department with the application for renewal materials. The samples required shall contain all parameters listed in the table above and any other parameters sampled. The submission must include the date of sampling and have the wastewater identified. Submission of laboratory results sheets will likely meet this requirement.
- (h) If soil test reports identify nutrient ratings of very high or excess, land application shall cease in the field until soil test nutrient ratings return to high or lower.
- (i) Annual summary for each field used for permitted land application fields showing: number of days application occurred, crop grown and yield data if available, and total amount of wastewater and/or sludge applied (gallons and/or tons per acre).
- (j) A record of the agronomic rate calculation for each material applied (document actual sampling results and agronomic rate calculations based on field usage).

2. For low volume land application fields, the following records must be retained and submitted as follows:

- (a) Records must be retained and made available for Department review of all low volume land application fields, locations, acreage, and dates and volumes of land applied materials.
- (b) A log must be maintained for each low volume field land application event that documents, at a minimum: date(s) of application, field identified, volume and material applied, acreage used, document of forecast for the area, time of ending land application, and post-application field assessment (ponding, pooling, runoff, solids depth, if applicable).
- (c) An annual report must be submitted by January 28th of each year that summarizes the low volume land application activities (volume) by HUC-12. This report should not include personal identifiable information.

D. STANDARD CONDITIONS

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

E. SPECIAL CONDITIONS

1. Spills, Overflows, and Other Unauthorized Discharges.
 - (a) Any spill, overflow, or other discharge(s) not specifically authorized are unauthorized discharges.
 - (b) If an unauthorized discharge cause or permit any contaminants to discharge or enter waters of the state, the unauthorized discharge must be reported to the regional office as soon as practicable but no more than 24 hours after the discovery of the discharge. If the spill or overflow needs to be reported after normal business hours or on the weekend, the facility must call the Department's 24 hour spill line at 573-634-2436.
 - (c) If the unauthorized discharge was an overflow from a no-discharge wastewater structure, the report must include all records confirming operation and maintenance records documenting proper maintenance. Operations must demonstrate the ability to meet the no-discharge requirement. This requirement may be met by 1) complying with the design requirements in 10 CSR 20-8.200 or 2) or providing other acceptable documentation.
2. Site-wide minimum Best Management Practices (BMPs). At a minimum, the facility shall adhere to the following:
 - (a) Provide good housekeeping practices on the site to keep trash from entry into waters of the state. Dumpsters must remain closed when not in use.
 - (b) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, warehouse activities, and other areas, to prevent the contamination of stormwater from these substances.
 - (c) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
 - (d) Store all paint, solvents, petroleum products, petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so these materials are not exposed to stormwater or provide other prescribed BMPs such as plastic lids and/or portable spill pans to prevent the commingling of stormwater with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater. Spill records shall be retained on-site or readily accessible electronically.
 - (e) Ensure adequate provisions are provided to prevent surface water intrusion into the wastewater storage structure(s) and to divert stormwater runoff around the wastewater storage structure(s).
 - (f) Provide sediment and erosion control sufficient to prevent or minimize sediment loss off of the property, and to protect embankments from erosion.
 - (g) Wash water for vehicles, building(s), or pavement must be handled in a no-discharge manner (infiltration, hauled off-site, etc.). Describe the no-discharge method used and include all pertinent information (quantity/frequency, soap use, effluent destination, BMPs, etc.) in the application for renewal. If wash water is not produced, note this instead.
3. All permitted features must be clearly marked in the field.
4. Stormwater Pollution Prevention Plan (SWPPP)

The facility's SIC code or description is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2) and applies to the land application areas. The terms of this permit, as well as the permit application, meet the SWPPP requirements.
5. Land application facilities shall develop and implement a Land Application Management Plan (LAMP). A LAMP must be developed, implemented, and maintained.
6. Reporting of Non-Detects.
 - (a) Compliance analysis conducted by the facility or any contracted laboratory shall be conducted in such a way the precision and accuracy of the analyzed result can be enumerated. See sufficiently sensitive test method requirements in Standard Conditions Part I, §A, No. 4 regarding proper testing and detection limits used for sample analysis. For the purposes of this permit, the definitions in 40 CFR 136 apply; method detection limit (MDL) and laboratory-established reporting limit (RL) are used interchangeably in this permit. The reporting limits established by the laboratory must be below the lowest effluent limits established for the specified parameter (including any parameter's future limit after an SOC) in the permit unless the permit provides for an ML.
 - (b) The facility shall not report a sample result as "non-detect" without also reporting the MDL. Reporting "non-detect" without also including the MDL will be considered failure to report, which is a violation of this permit.

- (c) For the daily maximum, the facility shall report the highest value; if the highest value was a non-detect, use the less than "<" symbol and the laboratory's highest method detection limit (MDL) or the highest reporting limit (RL); whichever is higher (e.g. <6).
 - (d) When calculating monthly averages, zero shall be used in place of any value(s) not detected. Where all data used in the average are below the MDL or RL, the highest MDL or RL shall be reported as "<#" for the average as indicated in item (c).
- 7. Failure to pay fees associated with this permit is a violation of the Missouri Clean Water Law (644.055 RSMo).
 - 8. This permit does not authorize storage, discharge or land application of domestic wastewater, domestic biosolids, full animal carcasses or animal manure.
 - 9. This permit does not cover land disturbance activities.
 - 10. All records required by this permit may be maintained electronically. These records can be maintained in a searchable format.
 - 11. All permitted land application sites and dispersal locations must be maintained on a map and made available to the Department upon request.
 - 12. This facility may only store or land apply food processing residuals, including meat processing, food processing and generation, animal food manufacturing, and other organic byproducts and do not contain chemicals or pollutants not covered herein. The byproducts may contain manufacturing facility residuals, but may not contain concentrated, non-food processing waste (e.g. waste chemicals).
 - 13. Renewal Application Requirements.
 - (a) This facility shall submit an appropriate and complete application to the Department no less than 180 days prior to the expiration date listed on page 1 of the permit.
 - (b) Application materials shall include complete Form A, and Form C. If the form names have changed, the facility must ensure they are submitting the correct forms as required by regulation.
 - (c) This facility must submit Form I/R for land application of wastewater/industrial solids.
 - (d) Sufficiently sensitive analytical methods must be used. A sufficiently sensitive method is one that can effectively describe the presence or absence of a pollutant at or below that pollutant's permit limit or water quality standard.
 - (e) The facility may use the electronic submission system to submit the application to the Program, if available.
 - (f) This facility must submit all soil testing conducted during the last five years or permit term (whichever is longer) with the application for permit renewal.
 - 14. Electronic Discharge Monitoring Report (eDMR) Submission System. The NPDES Electronic Reporting Rule, 40 CFR Part 127, reporting of effluent monitoring data and any report required by the permit (unless specifically directed otherwise by the permit), shall be submitted via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data for the NPDES program. The eDMR system is currently the only department-approved reporting method for this permit unless specified elsewhere in this permit, or a waiver is granted by the department. The facility must register in the department's eDMR system through the Missouri Gateway for Environmental Management (MoGEM) before the first report is due. All reports uploaded into the system shall be reasonably named so they are easily identifiable, such as "WET Test Chronic Outfall 002 Jan 2023", or "Outfall004-DailyData-Mar2025".

F. NOTICE OF RIGHT TO APPEAL

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

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

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FACT SHEET
FOR THE PURPOSE OF A NEW PERMIT
MO-0140244
SYNAGRO – SW MISSOURI LAND APPLICATION PROGRAM

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

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

PART I. FACILITY INFORMATION

Facility Type: Industrial: >1 MGD
SIC Code(s): 0711
Application Date: 06/15/2023

FACILITY DESCRIPTION

The Synagro – SW Missouri Land Application Program is a land application only program that provides area landowners with crop nutrients available in food/poultry processing wastewater residuals. These residuals are applied at agronomic rates in accordance with University of Missouri Extension recommendations and procedures.

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

PERMITTED FEATURES TABLE

OUTFALL	AVERAGE FLOW	DESIGN FLOW	TREATMENT LEVEL	EFFLUENT TYPE
#001	N/A	N/A	Land Application	Process Wastewater

CONTINUING AUTHORITY

Pursuant to 10 CSR 20-6.010(2)(A) and (E), the Department has received the appropriate continuing authority authorized signature from the facility. The Missouri Secretary of State continuing authority charter number for this facility is FL001702231; this number was verified to be associated with the facility and precisely matches the continuing authority reported by the facility.

Pursuant to 10 CSR 20-6.010(2)(B)4, this facility is a Level 4 Authority.

✓ Pursuant to 10 CSR 20-6.010(2)(D), the facility demonstrated the closest collection system was greater than 2000 feet from the property line per 10 CSR 20-6.010(2)(C)3.

OTHER ENVIRONMENTAL PERMITS

In accordance with 40 CFR 122.21(f)(6), the Department evaluated other environmental permits currently held by this facility. This facility holds no other permits.

PART II. RECEIVING WATERBODY INFORMATION

RECEIVING WATERBODY TABLE:

WATERBODY NAME	CLASS	WBID	DESIGNATED USES	DISTANCE TO SEGMENT	12-DIGIT HUC
Presumed Use Stream	C		GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.15 mi	10280203-0401

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

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

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

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

Other:

10 CSR 20-7.015(7) and 10 CSR 20-7.031(6): **GRW** = Groundwater

10 CSR 20-7.031(4): **GEN** – GEN may be assigned on a case by case basis if the NHD line is determined to be a water requiring protection by the Watershed Protection Section.

10 CSR 20-7.031(5)(N)6: **NNC** – lake numeric nutrient criteria apply

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

EXISTING WATER QUALITY & IMPAIRMENTS

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

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

✓ There are no upstream or downstream impairments near this facility.

WATERBODY MIXING CONSIDERATIONS

For all wastewater outfalls, mixing zone and zone of initial dilution are not allowed per 10 CSR 20-7.031(5)(A)4.B.(I)(a) and (b), as the base stream flow does not provide dilution to the effluent. For information how this regulation is used in determining effluent limits with or without mixing, see WASTELOAD ALLOCATION in Part III. If the base stream flow is above 0.1 cfs, mixing may be applied if 1) zones of passage are present, 2) mixing velocities are sufficient and stream bank configuration allows, 3) the aquatic life support system is maintained, 4) mixing zones do not overlap, 5) there are no drinking water intakes in the vicinity downstream, 6) the stream or lake has available pollutant loading to be allocated, and 7) downstream uses are protected. If mixing was not allowed in this permit, the facility may submit information, such as modeling, as to why mixing may be afforded to the outfall.

PART III. RATIONALE AND DERIVATION OF PERMIT CONDITIONS

ANTIBACKSLIDING

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

ANTIDEGRADATION REVIEW

Wastewater discharges with new, altered, or expanding flows, the Department is to document, by means of antidegradation review, if the use of a water body's available assimilative capacity is justified. See <https://dnr.mo.gov/document-search/antidegradation-implementation-procedure>. The facility must pay for the Department to complete the review. In accordance with Missouri's water quality regulations for antidegradation [10 CSR 20-7.031(3)], degradation may be justified by documenting the socio-economic importance of a discharge after determining the necessity of the discharge. Facilities must submit the antidegradation review request to the Department prior to establishing, altering, or expanding discharges. Per [10 CSR 20-7.015(4)(A)], new discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream, or connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

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

BEST MANAGEMENT PRACTICES

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

CLOSURE

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

COST ANALYSIS FOR COMPLIANCE (CAFCom)

Pursuant to 644.145 RSMo, when incorporating a new requirement for discharges from publicly owned facilities, or when enforcing provisions of this chapter or the CWA, pertaining to any portion of a publicly owned facility, the Department shall make a finding of affordability on the costs to be incurred and the impact of any rate changes on ratepayers upon which to base such permits and decisions, to the extent allowable under this chapter and the CWA. This process is completed through a CAFCom. Permits not including new requirements may be deemed affordable.

- ✓ The Department is not required to complete a cost analysis for compliance because the facility is not publicly owned.

CHANGES IN DISCHARGES OF TOXIC POLLUTANT

This special condition reiterates the federal rules found in 40 CFR 122.44(f) for technology treatments and 122.42(a)(1) for all other toxic substances. In these rules, the facility is required to report changes in amounts of toxic substances discharged. Toxic substances are defined in 40 CFR 122.2 as "...any pollutant listed as toxic under section 307(a)(1)" or, in the case of "sludge use or disposal practices," any pollutant identified in regulations implementing section 405(d) of the CWA." Section 307 of the clean water act then refers to those parameters listed in 40 CFR 401.15 and any other toxic parameter the Department determines is applicable for reporting under these rules in the permit. The facility must also consider any other toxic pollutant in the discharge as reportable under this condition and must report all increases to the Department as soon as discovered in the effluent. The Department may open the permit to implement any required effluent limits pursuant to CWA §402(k) where sufficient data was not supplied within the application but was supplied at a later date by either the facility or other resource determined to be representative of the discharge, such as sampling by Department personnel.

COMPLIANCE AND ENFORCEMENT

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

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

DISCHARGE MONITORING REPORTING – ELECTRONIC (EDMR) SUBMISSION SYSTEM

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

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

DOMESTIC WASTEWATER, SLUDGE, AND BIOSOLIDS

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

✓ Not applicable; the facility does not manage domestic wastewater on-site.

EFFLUENT LIMITATIONS

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

FEDERAL EFFLUENT LIMITATION GUIDELINES

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

✓ The facility does not have an associated ELG.

GENERAL CRITERIA CONSIDERATIONS

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

GOOD HOUSEKEEPING PRACTICES

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

Specific good housekeeping may include:

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

Industrial facilities may conduct activities that use, store, manufacture, transfer, and/or dispose of PFAS containing materials. Successful good housekeeping practices to minimize PFAS exposure to stormwater could include inventorying the location, quantity, and method of storage; using properly designed storage and transfer techniques; providing secondary containment around chemical storage areas; and using proper techniques for cleaning or replacement of production systems or equipment.

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

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

GROUNDWATER MONITORING

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

- ✓ This facility is not required to monitor groundwater for the water protection program as there are no sub-surface discharges.

ICE-MELT PRODUCT REMOVAL

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

LAND APPLICATION

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

- ✓ Applicable, the facility shall comply with all applicable land application requirements listed in this permit. These requirements incorporated into this permit pursuant to 10 CSR 20-6.015(4) ensure appropriate minimum operational controls of the no-discharge land application systems. When operated correctly these permit conditions will prevent unauthorized and illicit discharges to waters of the state; and will protect soils, vegetation, surface water, groundwater, and public health. These requirements also ensure application activities fall within a productive use demonstration (agricultural use), prevent plant phytotoxicity, and prevent and protect soils loading of specified pollutants. The minimum requirements established in the permit are to meet, not only DNRs requirements, but to also ensure the exemptions for agricultural stormwater runoff in 10 CSR 20-6.200(1)(B)5 or 10 CSR 20-6.300(2)(D)2 continue to be met. When the facility follows all permit requirements, stormwater discharge monitoring requirements from land application sites found at 10 CSR 20-6.200(2)(B)3.B. are excused. The BMPs prescribed in the permit, such as not applying to saturated or frozen soil, or applying outside the setbacks, are specific BMPs appropriate for wastewater and stormwater management from land application areas.
- ✓ The facility disclosed they apply water using a spray from a water truck or spray with a hose.
- ✓ Pursuant to 10 CSR 20-8.200(6) Surface Land Application of Wastewater. (B) Wetted Application Area. The wetted application area is the land area that is normally wetted by wastewater application. The wetted application area must be: 1. Located outside of flood-prone areas having a flood frequency greater than once every 10 years; 2. Established— A. At least one hundred fifty feet (150') from existing dwellings or public use areas, excluding roads or highways; B. At least fifty feet (50') inside the property line; C. At least three hundred feet (300') from any sinkhole, losing stream, or other structure or physiographic feature that may provide direct connection between the ground water table and the surface; D. At least three hundred feet (300') from any existing potable water supply well not located on the property. Adequate protection shall be provided for wells located on the application site; E. One hundred feet (100') to wetlands, ponds, gaining streams (classified or unclassified; perennial or intermittent); and F. If an established vegetated buffer or the wastewater is disinfected, the setbacks established in subsections (A)–(E) above may be decreased if the applicant demonstrates the risk is mitigated. 3. Fenced, or if not fenced, provide in the construction permit application or the facility plan, the— A. Method of disinfection being utilized; B. Suitable barriers in place, or C. Details on how public access is limited and not expected to be present. (C) Preapplication Treatment. At a minimum, treatment prior to irrigation shall provide performance equivalent to that obtained from a primary wastewater lagoon cell designed and constructed in accordance with sections (3) and (4) of this rule, except that the lagoon depth may be increased to include wastewater storage in addition to the primary volume.
- ✓ Following is a list of helpful publications; while generally geared to biosolids and domestic sludge, these documents can show operators and facilities specific best management practices which may be important to their own operations.
 - State and EPA Regulations for Domestic Wastewater Sludge and Biosolids <https://extension.missouri.edu/publications/eq421>
 - Land Application of Septage <https://extension.missouri.edu/publications/eq422>
 - Standards for Pathogens and Vectors <https://extension.missouri.edu/publications/wq424>
 - Interpretation of Laboratory Analysis of Samples <https://extension2.missouri.edu/wq429>
 - Biosolids Glossary of Terms <https://extension2.missouri.edu/eq449>
- ✓ Operations and Maintenance, and equipment resources:
 - Collection and Storage <https://extension2.missouri.edu/eq431>
 - Equipment for Off-Site Application <https://extension2.missouri.edu/wq432>
 - Equipment for On-Site Land Application <https://extension2.missouri.edu/wq433>
 - Operating Considerations for Equipment <https://extension2.missouri.edu/wq434>
- ✓ Land application of all pollutants must consider cumulative and average limits based on how the pollutant responds in the soil environment. Limits or monitoring requirements may reflect different monthly calculations based on pollutant behavior.
- ✓ The facility must follow the applicable application loading rates indicated in the permit's facility description and/or special conditions. The facility must follow the applicable loading rates in the permit's facility description for each land application area. This permit dictates the most conservative calculation will be used when determining application rates so that the most abundant pollutant is not over-applied.
- ✓ Fertilizer recommendations can also be obtained by using one of the following tools:
 - Land Applications Considerations (nutrient requirements for plant growth) <https://extension.missouri.edu/publications/eq202>
 - Crop/Nutrient Considerations <https://extension2.missouri.edu/eq430>
 - University of Missouri Nutrient Management Home Page: <https://nmplanner.missouri.edu/>
 - United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Nutrient Management technical resources <https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/technical/ecoscience/mnm/?cid=stelprdb1044741>
- ✓ Definitions used in the land application section of the permit can be found at 644.016 RSMo, 10 CSR 20-2, and 40 CFR 503.11.
- ✓ This permit does not authorize land disposal or the application of hazardous waste.
- ✓ Soils testing. The permit's special conditions stipulate soil testing for this facility. Soil testing is performed to ensure soil accumulation rates of the specified parameters are below established soil loading rates. By adhering to the soil sampling methodology and frequency, the Department can determine reasonable potential to cause or contribute to plant toxicity required under 10 CSR 20-6.015(4).

LAND DISTURBANCE

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

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

MAJOR WATER USER

Any surface or groundwater user with a water source and the equipment necessary to withdraw or divert 100,000 gallons (or 70 gallons per minute) or more per day combined from all sources from any stream, river, lake, well, spring, or other water source is considered a major water user in Missouri. <https://dnr.mo.gov/water/business-industry-other-entities/reporting/major-water-users>. All major water users are required by 256.400 RSMo to register water use annually. <https://dnr.mo.gov/document-search/frequently-asked-major-water-user-questions-pub2236/pub2236>

- ✓ Not applicable; this facility cannot withdraw water from the state in excess of 70 gpm or 0.1 MGD.

MODIFICATION REQUESTS

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

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

OPERATOR CERTIFICATION REQUIREMENTS

Operators or supervisors of operations at regulated domestic wastewater treatment facilities shall be certified in accordance with 10 CSR 20-9 and any other applicable state law or regulation.

- ✓ Not applicable; this facility is not owned or operated by a municipality, public sewer district, county, public water supply district, or private sewer company regulated by the Public Service Commission, or operated by a state or federal agency.

PERMIT SHIELD

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

REGIONAL OFFICES (ROS)

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

RENEWAL REQUIREMENTS

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

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

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

SAMPLING FREQUENCY JUSTIFICATION

This facility is a new facility monthly sampling is required to determine if the facility will be in compliance with the operating permit in accordance with Appendix U of Missouri's Water Pollution Control Permit Manual.

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

SPILLS, OVERFLOWS, AND OTHER UNAUTHORIZED DISCHARGE REPORTING

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

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

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

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

SLUDGE – INDUSTRIAL

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

- ✓ Applicable; this permit authorizes land application of industrial sludge in accordance with Part A and Special Conditions of this permit; see additional information below in Part IV.

STANDARD CONDITIONS

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

SUFFICIENTLY SENSITIVE ANALYTICAL METHODS

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

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS

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

✓ Not applicable, this is a no-discharge permit therefore WLAs were not calculated.

WASTELOAD ALLOCATION (WLA) MODELING

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

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

PART IV. EFFLUENT LIMIT DETERMINATIONS

PERMITTED FEATURE #001-#084

LAND APPLICATION OPERATIONAL MONITORING

PARAMETERS	UNIT	DAILY MAX	MONTHLY AVG	PREVIOUS PERMIT LIMITS	MINIMUM SAMPLING FREQUENCY	MINIMUM REPORTING FREQUENCY	SAMPLE TYPE
IRRIGATION ACTIVITY							
APPLICATION AREA	ACRES	*	*	NEW	ONCE/MONTH♠	ONCE/MONTH	RECORD
VOLUME APPLIED	GALLONS	*	*	NEW	ONCE/MONTH♠	ONCE/MONTH	RECORD

♠ Facility will maintain records for each day land application occurred. If no application occurred, a record is not required.

LAND APPLICATION OPERATIONAL MONITORING:

Application Area

Recording and reporting requirement only. In order to determine compliance with 10 CSR 20-6.015 and 10 CSR 20-8.200, reporting the area utilized will allow the Department to ensure compliance with setback distances. Adhering to the required setbacks prevents illicit discharges to waterbodies.

Volume Applied

Recording and reporting requirement only. In order to determine compliance with 10 CSR 20-6.015 and 10 CSR 20-8.200, monitoring of application activity is required. Monitoring the volume irrigated will allow the Department to ensure over application does not occur. This will also help prevent runoff and illicit discharges due to soil saturation.

PROCESS WASTEWATER MONITORING FOR LAND IRRIGATION FROM FACILITIES NOT PERMITTED IN MISSOURI

PARAMETERS	UNIT	DAILY MAX	PREVIOUS PERMIT LIMITS	MINIMUM SAMPLING FREQUENCY	MINIMUM REPORTING FREQUENCY	SAMPLE TYPE
TOTAL NITROGEN	MG/L	*	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
PHOSPHORUS	MG/L	*	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
TOTAL SODIUM	MG/L	*	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
PERCENT SOLIDS	%	*	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
CHLORIDE	MG/L	*	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
FECAL COLIFORM	#/100ML	2000000	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
pH [†]	MG/L	*	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
OIL AND GREASE	MG/L	*	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
ALUMINUM	MG/KG	4000	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
ARSENIC	MG/KG	41	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
BARIUM	MG/KG	*	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
BORON	MG/KG	*	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
CADMIUM	MG/KG	39	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
CHROMIUM	MG/KG	*	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
COPPER	MG/KG	1500	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
LEAD	MG/KG	300	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
MERCURY	MG/KG	17	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
NICKEL	MG/KG	420	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
SELENIUM	MG/KG	100	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
SILVER	MG/KG	*	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
THALLIUM	MG/KG	*	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB
ZINC	MG/KG	2800	NEW	ONCE/QUARTER	ONCE/QUARTER	GRAB

Total Nitrogen

Monitoring only. Monitoring for Total Nitrogen is included to determine nutrient loading rates on the land application fields.

Phosphorus

Monitoring only. Monitoring for Phosphorus is included to determine nutrient loading rates on the land application fields.

Total Sodium

Monitoring only. Monitoring for Total Sodium is included to determine nutrient loading rates on the land application fields.

Percent Solids

Monitoring only. Monitoring for Percent Solids is included to determine nutrient loading rates on the land application fields.

Chloride

Chloride is a pollutant commonly found in food products and food processing waste. Chloride may be phytotoxic to some plants, but chloride toxicity concentrations are highly variable depending on plant response and soil conditions. As such, limits are not established beyond the general prohibition of phytotoxicity in land application. But, as this is a pollutant of concern for this wastewater, and as this pollutant may cause phytotoxicity, monitoring is required.

Fecal Coliform

Monitoring with a daily maximum limit of 2,000,000 colony forming units per 100 mL. Using best professional judgement, this limit was established based on the science used by the U.S. Environmental Protection Agency in the development of 40 CFR 503 for best management of land application of material containing fecal coliform.

pH

Monitoring requirement only. Monitoring for pH is included to ensure that soil pH is in the optimal range for plant growth and nutrient utilization.

Oil and Grease

Monitoring only. Excessive application of oil and grease has the potential to kill or prevent the growth of vegetation, as well as become a source of pollutants in stormwater. Facilities applying oily wastewater to the surface must ensure the oily water is not entrained in stormwater and must not run off the field. If a discharge of oily sheen is observed, the permittee is in violation of the general criteria pursuant to 10 CSR 20-7.031(4). Facilities may opt to pretreat any oily wastewater prior to application with adsorbent pads or booms and remove the sheen.

Metals: (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Zinc)

Monitoring is required to ensure the land application system does not have reasonable potential to cause or contribute to phytotoxicity. Ceiling concentrations have been included as daily maximum limits for aluminum, arsenic, cadmium, copper, lead, mercury, and nickel. Using best professional judgement, these ceiling concentrations were established based on the science used by the U.S. Environmental Protection Agency in the development of 40 CFR 503 for best management of land application of material contains such metals and as such will be implemented in this permit.

PART V. ADMINISTRATIVE REQUIREMENTS

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

PERMIT SYNCHRONIZATION

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

✓ Industrial permits are not being synchronized.

PUBLIC NOTICE

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

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

✓ The Public Notice period for this operating permit is February 16, 2024 through March 18, 2024.

DATE OF FACT SHEET: FEBRUARY 9, 2024

COMPLETED BY:

KYLE O'ROURKE, ENVIRONMENTAL ANALYST SCIENTIST
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
OPERATING PERMITS SECTION - INDUSTRIAL UNIT
(573) 526-1289
Kyle.O'Rourke@dnr.mo.gov



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

FOR AGENCY USE ONLY

CHECK NUMBER

DATE RECEIVED

FEE SUBMITTED

JET PAY CONFIRMATION NUMBER

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

IF YOUR FACILITY IS ELIGIBLE FOR A NO EXPOSURE EXEMPTION:

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

1. REASON FOR APPLICATION:

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

2. FACILITY

NAME		TELEPHONE NUMBER WITH AREA CODE	
ADDRESS (PHYSICAL)	CITY	STATE	ZIP CODE

3. OWNER

NAME		TELEPHONE NUMBER WITH AREA CODE	
EMAIL ADDRESS			
ADDRESS (MAILING)	CITY	STATE	ZIP CODE

4. CONTINUING AUTHORITY

NAME		TELEPHONE NUMBER WITH AREA CODE	
EMAIL ADDRESS			
ADDRESS (MAILING)	CITY	STATE	ZIP CODE

5. OPERATOR CERTIFICATION

NAME	CERTIFICATE NUMBER	TELEPHONE NUMBER WITH AREA CODE	
ADDRESS (MAILING)	CITY	STATE	ZIP CODE

6. FACILITY CONTACT

NAME	TITLE	TELEPHONE NUMBER WITH AREA CODE	
E-MAIL ADDRESS			

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

NAME			
ADDRESS	CITY	STATE	ZIP CODE

8. ADDITIONAL FACILITY INFORMATION

8.1 Legal Description of Outfalls. (Attach additional sheets if necessary.)

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

001 $\frac{1}{4}$ $\frac{1}{4}$ Sec T R County
UTM Coordinates Easting (X): Northing (Y):

002 $\frac{1}{4}$ $\frac{1}{4}$ Sec T R County
UTM Coordinates Easting (X): Northing (Y):

003 $\frac{1}{4}$ $\frac{1}{4}$ Sec T R County
UTM Coordinates Easting (X): Northing (Y):

004 $\frac{1}{4}$ $\frac{1}{4}$ Sec T R County
UTM Coordinates Easting (X): Northing (Y):

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

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

Primary SIC and NAICS SIC and NAICS
SIC and NAICS SIC and NAICS

9. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION

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

10. ELECTRONIC DISCHARGE MONITORING REPORT (eDMR) SUBMISSION SYSTEM

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

- ☐ - I will register an account online to participate in the Department's eDMR system through the Missouri Gateway for Environmental Management (MoGEM) before any reporting is due, in compliance with the Electronic Reporting Rule.
- ☐ - I have already registered an account online to participate in the Department's eDMR system through MoGEM.
- ☐ - I have submitted a written request for a waiver from electronic reporting. See instructions for further information regarding waivers.
- ☐ - The permit I am applying for does not require the submission of discharge monitoring reports.

11. FEES

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

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

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

12. CERTIFICATION

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

NAME AND OFFICIAL TITLE (TYPE OR PRINT)

TELEPHONE NUMBER WITH AREA CODE

SIGNATURE

DATE SIGNED

MO 780-1479 (04-21)

6/28/23

BEFORE SUBMITTING, PLEASE ENSURE ALL SECTIONS ARE COMPLETED AND ADDITIONAL FORMS, IF APPLICABLE, ARE INCLUDED.

INSTRUCTIONS FOR COMPLETING FORM A - APPLICATION FOR NONDOMESTIC PERMIT

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

For some new or modified permits, a construction permit is required prior to beginning construction at the facility. For other permits, an exemption is provided from construction permit requirements. Please review the requirements at <http://dnr.mo.gov/env/wpp/permits/ww-construction-permitting.htm>. If the facility is for wastewater treatment and is designed for greater than 22,500 gallons per day, the engineering report must be submitted and approved prior to submittal of the application, fee, plans, and specifications. A summary of design data must be submitted with the engineering plans and specifications.

For new wastewater facilities, some wastewater permit modifications, and some permit renewals with proposed increase in design wastewater flow, an antidegradation review may be required. Please visit <https://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm> for more information

2. Facility - Provide the name by which this facility is known locally. Example: Southwest Sewage Treatment Plant, Country Club Mobile Home Park, etc. Also include the street address or location of the facility. If the facility lacks a street name or route number, give the names of the closest intersection, highway, county road, etc.
3. Owner - Provide the legal name and address of owner or company.
4. Continuing Authority – A continuing authority is a company, business, entity, or person(s) operating the facility and/or ensuring compliance with the permit requirements. A continuing authority is not, however, an entity or individual that is contractually hired by the permittee to sample or operate and maintain the system for a defined time period, such as a certified operator or analytical laboratory. To access the regulatory requirement regarding continuing authority, 10 CSR 20-6.010(2), please visit <https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf>. A continuing authority's name must be listed **exactly** as it appears on the Missouri Secretary of State's (SoS's) webpage: <https://bsd.sos.mo.gov/BusinessEntity/BESearch.aspx?SearchType=0>, unless the continuing authority is an individual(s), government, or otherwise not required to register with the SoS.
5. Operator - Provide the name, certificate number, mailing address and telephone number of the person operating the facility, if required by regulation (10 CSR 20-9.020(2)). Most industrial facilities will not be required to have a certified wastewater operator.
6. Provide the name, title, and work telephone number of a person who is thoroughly familiar with the operation of the facility, with the facts reported in this application, and who can be contacted by the department, if necessary. This person will need to be available to respond to emails which will include pre-public notice drafts of permits.
7. 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.
- 8.1 An outfall is the point at which wastewater or stormwater is discharged. Outfalls should be given in terms of the legal description of the facility. Global Positioning System, or GPS, is a satellite-based navigation system. The department prefers 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. This section also needs to include any subsurface discharges, discharges to groundwater, sinkholes or subsurface seepage from storage basins. This section also needs to include underground injection into wells, conduits to groundwater and shallow subsurface dispersal fields (leach fields).
- 8.2 List only your primary Standard Industrial Classification (SIC), and North American Industry Classification System (NAICS) code for each outfall. The SIC system was devised by the U.S. Office of Management and Budget to cover all economic activities. To find the correct SIC code, an applicant may check his or her unemployment insurance forms or contact the Missouri Division of Employment Security, 573-751-3215. The primary SIC code is that of the operation that generates the most revenue. If this information is not available, the number of employees or, secondly, production rate may be used to determine your SIC code. Additional information for Standard Industrial Codes can be found at www.osha.gov/pls/imis/sicsearch.html and for the North American Industry Classification System at www.census.gov/naics or contact the appropriate Department of Natural Resources regional office.

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

9. If you answer yes to A, B, C, D, or E, then you must complete and file the supplementary form(s) indicated. 40 CFR 122.21(f) and (g) requires the facility to submit the information requested herein. For 9.E., please include all permits or approvals, including construction, issued under the Hazardous Waste Management Program (RCRA), the Safe Drinking Water Act, Clean Air Act, or any other permits issued under the Clean Water Act.

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 can be obtained from the Missouri Department of Natural Resources' Geological Survey in Rolla at 573-368-2100 or various online mapping applications.

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

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

- A. Members of religious communities that choose not to use certain technologies.
- B. Permittees located in areas with limited broadband access. The National Telecommunications and Information Administration (NTIA) in collaboration with the Federal Communications Commission (FCC) have created a broadband internet availability map: <http://www.broadbandmap.gov/>. Please contact the department if you need assistance.

11. Please visit <https://dnr.mo.gov/pubs/pub2564.htm> for permit fees. This form must be submitted with the application fee if requesting a new permit, permit modification or permit transfer.

Fee schedules are listed in regulation at 10 CSR 20-6.011, <https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf>.

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.

12. Certification/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.

Send completed form and fees (if not submitted electronically) to :
cleanwaterpermits@dnr.mo.gov or Missouri Department Of Natural Resources Water Protection Program Water Pollution Control Branch ATTN: Operating Permits Section P.O. BOX 176 JEFFERSON CITY, MO 65102-0176

If there are any questions concerning this form, contact the Department of Natural Resources' Water Protection Program, Operating Permits Section at 800-361-4827 or 573-522-4502.



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ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

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

Part I – General Conditions

Section A – Sampling, Monitoring, and Recording

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

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

Section B – Reporting Requirements

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



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

Section C – Bypass/Upset Requirements

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

Section D – Administrative Requirements

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



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

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

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

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



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