# **STATE OF MISSOURI**

#### **DEPARTMENT OF NATURAL RESOURCES**

#### MISSOURI CLEAN WATER COMMISSION



#### **CONSTRUCTION PERMIT**

The Missouri Department of Natural Resources hereby issues a permit to:

Amy Grace Last Resort RV LLC 2825 Bluff Blvd. Holiday, FL 34691

#### for the construction of (described facilities):

See attached.

#### Permit Conditions:

See attached.

Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources (Department).

As the Department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

A representative of the Department may inspect the work covered by this permit during construction. Issuance of a permit to operate by the Department will be contingent on the work substantially adhering to the approved plans and specifications.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

November 27, 2023 Effective Date

November 26, 2025

Expiration Date

John Hoke, Director, Water Protection Program

# **CONSTRUCTION PERMIT**

#### I. CONSTRUCTION DESCRIPTION

South system:

A sewage collection system with approximately 1,228 lineal feet of 4-inch and 6-inch SDR-35 PVC gravity sewer and 6 manholes; treatment system with two 2,000 gallon septic tanks, pumping tanks, two 1,500 gallon LPP drainfield dosing tanks equipped with effluent pumps, a soil absorption field with an area of approximately 14,700 square feet, separated into 6 zones, each zone with approximately 490 lineal feet of 1.0-inch LPP distribution pipe, soil loading rate of 0.15 gal/sq. ft., complete and usable to treat the waste from a population equivalent of 22, with an average daily design flow of 2,160 gallons.

North system:

A sewage collection system with approximately 1,419 lineal feet of 4-inch and 6-inch SDR-35 PVC gravity sewer and 7 manholes, treatment system with two 2,000 gallon septic tanks, pump tanks, two 1,500 gallon LPP drainfield dosing tanks equipped with effluent pumps, a soil absorption field with an area of approximately 15,600 square feet, separated into 6 zones, each zone with approximately 520 lineal feet of 1.0-inch LPP distribution pipe, soil loading rate of 0.15 gal/sq. ft., complete and usable to treat the waste from a population equivalent of 23, with an average daily design flow of 2,340 gallons.

South Drainfield approximate location: UTM (zone 15) X = 477,550, Y = 4,235,280. North Drainfield approximate location: UTM (zone 15) X = 477,660, Y = 4,235,375.

This is a non-discharging facility to be located in the SW <sup>1</sup>/<sub>4</sub>, Sec. 4, T40N, R21W, Benton County, Missouri. This project will also include general site work appropriate to the scope and purpose of the project and all necessary appurtenances to make complete and usable wastewater treatment facilities.

# II. COST ANALYSIS FOR COMPLIANCE

Pursuant to Section 644.145, RSMo, when issuing permits under this chapter that incorporate a new requirement for discharges from publicly owned combined or separate sanitary or storm sewer systems or publicly owned treatment works, or when enforcing provisions of this chapter or the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq., pertaining to any portion of a publicly owned combined or separate sanitary or storm sewer system or [publicly owned] treatment works, the Department of Natural Resources 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 Federal Water Pollution Control Act. This process is completed through a cost analysis for compliance. Permits that do not include new requirements may be deemed affordable.

The Department is not required to complete a cost analysis for compliance because the facility is not a combined or separate sanitary sewer system for a publically-owned treatment works.

# **III. CONSTRUCTION PERMIT CONDITIONS**

The permittee is authorized to construct subject to the following conditions:

- 1. This construction permit does not authorize discharge.
- 2. All construction shall be consistent with plans and specifications signed and sealed by Martin Heins, P.E., with OCD Services, LLC and as described in this permit.
- 3. The Department must be contacted in writing prior to making any changes to the plans and specifications that would directly or indirectly have an impact on the capacity, flow, system layout, or reliability of the proposed wastewater treatment facilities or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(11).
- 4. State and federal law does not permit bypassing of raw wastewater, therefore steps must be taken to ensure that raw wastewater does not discharge during construction. If a sanitary sewer overflow or bypass occurs, report the appropriate information to the Department's Kansas City Regional Office per 10 CSR 20-7.015(9)(G).
- 5. The completed project shall be field tested to verify actual pumped volume of each dose. The timer controls shall be set to ensure a dosing rate not to exceed the allowable rate of 0.15 gallons per square foot per day.
- 6. The wastewater facility structures, electrical equipment, and mechanical equipment shall be protected from physical damage by not less than the one hundred- (100-) year flood elevation per 10 CSR 20-8.140(2)(B). The minimum distance between wastewater treatment facilities and all potable water sources shall be at least three hundred feet (300') per 10 CSR 20-8.140(2)(C)1.
- 7. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of 1 acre or more to obtain a Missouri state operating permit to discharge stormwater. The permit requires best management practices sufficient to control runoff and sedimentation to protect waters of the state. Land disturbance permits will only be obtained by means of the Department's ePermitting system available online at <a href="https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem">https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem</a>. See <a href="https://dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting">https://dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting</a> for more information.

- 8. A United States Army Corps of Engineers (USACE) Clean Water Act Section 404 Department of the Army permit and a Section 401 Water Quality Certification issued by the Department may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied or notification is provided that no Section 404 permit is required by the USACE. You must contact your local USACE district since they determine what waters are jurisdictional and which permitting requirements may apply. You may call the Department's Water Protection Program, Operating Permits Section at 573-522-4502 for more information. See <u>https://dnr.mo.gov/water/businessindustry-other-entities/permits-certification-engineering-fees/section-401-water-quality</u> for more information.
- 9. All construction must adhere to applicable 10 CSR 20-8 (Chapter 8) requirements listed below.
  - All wastewater treatment facilities shall be provided with an alternate source of electric power or pumping capability to allow continuity of operation during power failures. 10 CSR 20-8.140 (7) (A) 1.
  - Electrical systems and components in raw wastewater or in enclosed or partially enclosed spaces where hazardous concentrations of flammable gases or vapors that are normally present, shall comply with the NFPA 70 National Electric Code (NEC) (2017 Edition), as approved and published August 24, 2016, requirements for Class I, Division 1, Group D locations. 10 CSR 20-8.140 (7) (B)
  - An audiovisual alarm or a more advanced alert system, with a self-contained power supply, capable of monitoring the condition of equipment whose failure could result in a violation of the operating permit, shall be provided for all wastewater treatment facilities. 10 CSR 20-8.140 (7) (C).
  - No piping or other connections shall exist in any part of the wastewater treatment facility that might cause the contamination of a potable water supply. 10 CSR 20-8.140 (7) (D) 1.
  - Where a potable water supply is to be used for any purpose in a wastewater treatment facility other than direct connections, a break tank, pressure pump, and pressure tank or a reduced pressure backflow preventer consistent with the department's Public Drinking Water Branch shall be provided. 10 CSR 20-8.140 (7) (D) 3. A.
  - All wastewater treatment facilities must have a screening device, comminutor, or septic tank for the purpose of removing debris and nuisance materials from the influent wastewater. 10 CSR 20-8.150 (2)
  - A septic tank must have a minimum capacity of at least 1,000 gallons. 10 CSR 20-8.180 (2) (A)
  - A means of flow measurement shall be provided at all wastewater treatment facilities. 10 CSR 20-8.140 (7) (E)
  - Subsurface systems shall
    - o Exclude unstabilized fill and soils that have been highly compacted and/or disturbed, such as old road beds, foundations, or similar things; 10 CSR 20-8.200 (7) (A) 1. A.
    - o Provide adequate surface drainage where slopes are less than two percent; 10 CSR 20-8.200 (7) (A) 1. B

- o Provide surface and subsurface water diversion where necessary, such as a curtain or perimeter drain; 10 CSR 20-8.200 (7) (A) 1. C and
- o Have a ten foot buffer from the property line. 10 CSR 20-8.200 (7) (A) 1. D
- The vertical separation between the bottom of the trench and a limiting layer, including but not limited to, bedrock; restrictive horizon; or seasonal high water table, shall be no less than:
  - o Twenty-four inches (24"); 10 CSR 20-8.200 (7) (A) 2. A.
- Loading rates shall not exceed the values assigned by the site and soil evaluation. 10 CSR 20-8.200 (7) (C)
- All network piping and low pressure distribution piping and fittings with polyvinyl chloride (PVC) shall meet ASTM Standard D 1785 *Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, or 120* as approved and published August 1, 2015, or equivalent rated to meet or exceed ASTM D2466 *Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings* as approved and published August 1, 2017. These standards shall hereby be incorporated by reference into this rule, as published by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959. This rule does not incorporate any subsequent amendments or additions. 10 CSR 20-8.200 (8) (A) 2.
- Manifold design for LPP systems shall address freeze protection while assuring uniform distribution and to minimize drain down of laterals into other laterals at a lower elevation between dosing events. 10 CSR 20-8.200 (8) (A) 3.
- 10. Upon completion of construction:
  - A. Last Resort RV LLC will become the continuing authority for operation and maintenance of these facilities;
  - B. Submit an electronic copy of the as builts if the project was not constructed in accordance with previously submitted plans and specifications; and
  - C. Submit the Statement of Work Completed form to the Department in accordance with 10 CSR 20-6.010(5)(N) (<u>https://dnr.mo.gov/document-search/wastewater-construction-statement-work-completed-mo-780-2155</u>) and submit a Form B Application for an Operating Permit for Domestic or Municipal Wastewater (≤100,000 gallons per day) and modification fee of \$75.00 to the Engineering Section of the Water Protection Program 60 days prior to operation.

# IV. REVIEW SUMMARY

# 1. CONSTRUCTION PURPOSE

Wastewater treatment facilities are being constructed to serve an expansion of an RV campground.

# 2. FACILITY DESCRIPTION

The campground has 13 existing on-site soil absorption systems consisting of septic tanks and gravity fed soil absorption fields. The existing systems have design flows varying from 277 gpd up to 1,260 gpd; they have a total combined design flow of 7,399 gpd .

New treatment facilities will serve an expansion of camping RV spots at The Last Resort Campground. There are two expansion projects. The south loop will add 24 RV spots and the north loop will add 26 RV spots. Each expansion loop will be served by a separate collection system and treatment facility. Both wastewater treatment facility consists of septic tanks, dosing tanks, and LPP subsurface soil absorption fields. The proposed south loop system will serve 24 sites at 2,160 gpd, and the north loop system will serve 26 sites at 2,340 gpd. Design flows are based on 90 gpd/RV. After construction the 15 soil absorption systems will have a total combined design flow of 11,899 gpd.

The Last Resort Campground WWTF; will be owned and operated by Last Resort RV LLC and is located at 28819 Black Rock Ave., Warsaw, Benton County, Missouri. The South Loop facility has a design average flow of 2160 gpd and serves a hydraulic population equivalent of 22; the North Loop facility has a design average flow of 2340 gpd and serves a hydraulic population equivalent of 23.

# 3. <u>COMPLIANCE PARAMETERS</u>

The proposed wastewater treatment facilities will be complete no-discharge treatment facilities. All liquid waste will be treated and disposed on-site. Periodic removal of waste sludge will be necessary. A Missouri State Operating Permit is required to be maintained. Monitoring of the facility will be required along with keeping records of maintenance activities. There are currently no sampling requirements.

# 4. REVIEW of MAJOR TREATMENT DESIGN CRITERIA

The overall project is an expansion of 50 RV camping spots at an existing campground.

#### South Loop System:

24 full hook-up RV spaces. Sewage collection system consists of approximately 1,228 lineal feet of 4-inch and 6-inch SDR-35 PVC gravity sewer with 6 manholes. Treatment system with two 2,000 gallon septic tanks connected in series; two 1,500 lift station tanks in series, the second tank equipped with two 0.5 HP effluent pumps, each with a capacity of 21 gpm at a TDH of 69 feet; flow to be pumped through 1.5 inch PVC force main to the LPP drainfield dosing tank (two 1,500 gallon tanks in series) equipped with two 2.0 HP effluent pumps, dosing rate of 40 gpm, 2-inch PVC manifold pipe, a soil absorption field with an area of approximately 14,700 square feet, separated into 6 zones; automatic distributing valves for zone selection;

approximate effective zone size of 2,450 sq. ft. with 490 lineal feet of 1.0-inch LPP distribution pipe, 7 laterals, 70 feet each, placed 7 feet on center (effective area is based on 5 feet absorption width); bury depth is approximately 12 inches; at design flow each zone will be dosed 2.7 times a day for approximately 3.4 minutes. Design flow is 2,160 gpd.

#### North Loop System:

26 full hook-up RV spaces. Sewage collection system consists of approximately 1,419 lineal feet of 4-inch and 6-inch SDR-35 PVC gravity sewer with 7 manholes. Treatment system with two 2,000 gallon septic tanks connected in series; two 1,500 lift station tanks in series, the second tank equipped with two 0.5 HP effluent pumps, each with a capacity of 18 gpm at a TDH of 88 feet; flow to be pumped through 1.5 inch PVC force main to the LPP drainfield dosing tank (two 1,500 gallon tanks in series) equipped with two 2.0 HP effluent pumps, dosing rate of 43 gpm, 2-inch PVC manifold pipe, a soil absorption field with an area of approximately 15,600 square feet, separated into 6 zones; automatic distributing valves for zone selection; approximate effective zone size of 2,600 sq. ft. with 520 lineal feet of 1.0-inch LPP distribution pipe, 8 laterals, 65 feet each, placed 7 feet on center (effective area is based on 5 feet absorption width); bury depth is approximately 12 inches; at design flow each zone will be dosed 2.6 times a day for approximately 3.5 minutes. Design flow is 2,340 gpd.

Treatment facility drainfields are more than 380 feet from the public water supply well. A private well is located on a separate property to the west; drainfields are over 330 feet from the west property line.

All absorption field sizes are based on a loading rate of 0.15 gallons per square foot per day. Detailed soil analysis was performed by Timothy O. Knoernschild, Soil Scientist, February 7, 2023. The soil loading rate is in accordance with the recommended rates in the soil report. In the soils investigation there was a soil pit dug in the location of each absorption field. Depth to limiting layer, bed rock is 40 inches, at the North Loop system. Depth to limiting layer is over 49 inches at the South Loop System.

# 5. <u>OPERATING PERMIT</u>

After completion of construction project submit: statement of work completed, asbuilts if the project was not constructed in accordance with previously submitted plans and specifications, and ensure that Application Form B, and modification fee has been submitted. Missouri State Operating Permit, General Permit MO-G823133, will be modified as appropriate.

# V. NOTICE OF RIGHT TO APPEAL

If you were adversely affected by this decision, you may be entitled to an appeal before the Administrative Hearing Commission (AHC) pursuant to Section 621.250 RSMo. To appeal, you must file a petition with the AHC within 30 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 should 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

Andrew Appelbaum, P.E. Engineering Section andy.appelbaum@dnr.mo.gov

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MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM APPLICATION FOR CONSTRUCTION PERMIT – WASTEWATER TREATMENT FACILITY

FOR DEPA	RTMENT USE ONLY		
APP NO.	CP NO.		
FEE RECEIVED	CHECK NO.		

DATE RECEIVED

APPLICATION OVERVIEW	
The Application for Construction Permit – Wastewater Treatment Facility form has been of Part A and B. All applicants must complete Part A. Part B should be completed for wastewater or propose land application for wastewater treatment. Please read the acc completing this form. Submittal of an incomplete application may result in the ap	or applicants who currently land-apply companying instructions before
PART A - BASIC INFORMATION	
<ol> <li>APPLICATION INFORMATION (Note – If any of the questions in this section are a considered incomplete and returned.)</li> </ol>	answered NO, this application may be
1.1 Is this a Federal/State funded project?  YES IN/A Funding Agency:	Project #:
1.2 Has the Missouri Department of Natural Resources approved the proposed project ☐ YES Date of Approval:	s antidegradation review?
1.3 Has the department approved the proposed project's facility plan*? ✓ YES Date of Approval: <u>5-23</u> NO (If No, complete No. 1.4.)	
<ul> <li>1.4 [Complete only if answered No on No. 1.3.] Is a copy of the facility plan* for wastev application?</li> <li>YES NO Exempt because</li> </ul>	water treatment facilities included with this
1.5 Is a copy of the appropriate plans* and specifications* included with this application ☑ YES Denote which form is submitted: ☐ Hard copy ☑ Electronic copy (See	
1.6 Is a summary of design* included with this application? ZYES NO	
<ul> <li>1.7 Has the appropriate operating permit application (A, B, or B2) been submitted to the ✓ YES Date of submittal: 10/18/2022         <ul> <li>Enclosed is the appropriate operating permit application and fee submittal. Den</li> <li>N/A: However, In the event the department believes that my operating permit reconsigning equivalent to secondary limits to secondary limits or adding total residual to public notice?</li> <li>YES □ NO</li> </ul> </li> </ul>	ote which form: A B B B2 quires revision to permit limitation such as
1.8 Is the facility currently under enforcement with the department or the Environmenta	I Protection Agency?  YES INO
1.9 Is the appropriate fee or JetPay confirmation included with this application? Y See Section 7.0	ES NO
* Must be affixed with a Missouri registered professional engineer's seal, signature and	date.
2.0 PROJECT INFORMATION	
	2 ESTIMATED PROJECT CONSTRUCTION COST
	225,000
2.3 PROJECT DESCRIPTION Southeast expansion of existing RV Park. Existing RV Park operates under DNR Perm permit) is 150 people. Existing Flow is 6,405 to 6,590 gpd. Proposed expansion will ad	
2.4 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION	
Septic tanks to be pumped on regular intervals as required for proper system maintenant be pumped and disposed by licensed pumping contractor and disposed of in compliance 2.5 DESIGN INFORMATION	
A. Current population: <u>150</u> ; Design population: <u>+ 150</u>	
B. Actual Flow: gpd; Design Average Flow: 4500 gpd; Actual Peak Daily Flow: gpd; Design Maximum Daily Flow: 4500 gpd;	Design Wet Weather Event: N.A.
2.6 ADDITIONAL INFORMATION	
A. Is a topographic map attached?  YES  NO	
B. Is a process flow diagram attached? VES NO	
MO 780-2189 (02-19)	Page 1 of 3

3.0 WASTEWATER TREATMENT FACILIT	ſY	Contraction of the Party		and the second second second	
NAME TELEPHONE NUMBER WITH AREA CODE Last Resort RV - Southeast Expansion - North & South 727-200-2510		HAREA CODE	E-MAIL ADDRESS		
ADDRESS (PHYSICAL)		121-200-2010	STATE	ZIP CODE COUNTY	
28819 Black Rock Ave.	Warsaw		MO	65355 Benton	
Wastewater Treatment Facility: Mo-	(Outfall	Of )			
(Use additional pages if construction of more	than one ou		0, R <u>21</u>	-	
3.2 UTM Coordinates Easting (X): -93.257 For Universal Transverse Mercator (UTM), Zo	<sup>3</sup> Northing	g (Y): <u>38.2650</u> h referenced to North An	nerican Datum 1	983 (NAD83)	
3.3 Name of receiving streams: N.A. N	lo outfall.				
4.0 PROJECT OWNER	As Malaga				Sec.
NAME		TELEPHONE NUMBER WIT	H AREA CODE	E-MAIL ADDRESS	
Last Resort RV LLC		727-200-2510	OTATE	agrace@gracecommunities.com	1
2825 Bluff Blvd.	Holiday		STATE FL	ZIP CODE 34691	
5.0 CONTINUING AUTHORITY: A continu		ty is a company, busi			facility
and/or ensuring compliance with the permit		nts.			
NAME Last Resort RV LLC	1	TELEPHONE NUMBER WIT 727-200-2510	HAREA CODE	E-MAIL ADDRESS agrace@gracecommunities.com	1
ADDRESS		121-200-2310	STATE		
2825 Bluff Blvd.	Holiday	and the second second	FL	34691	
5.1 A letter from the continuing authority, if	different th	an the owner is inclu	ded with this a	pplication. YES NO	N/A
<ul> <li>A. Is a copy of the certificate of convenienc</li> <li>5.3 COMPLETE THE FOLLOWING IF THE CONTINUING AUTH</li> <li>A. Is a copy of the as-filed restrictions and of</li> </ul>	ORITY IS A PRO	OPERTY OWNERS ASSOCIAT	ION.		
<ul> <li>C. Is a copy of the as-filed legal instrument included with this application? YES</li> <li>D. Is a copy of the Missouri Secretary of St</li> <li>6.0 ENGINEER</li> </ul>		rofit corporation certifi	cate included	with this application?	s ] NO
ENGINEER NAME / COMPANY NAME Martin Heins / OCD Services, LLC		TELEPHONE NUMBER WIT 913-202-3813	H AREA CODE	E-MAIL ADDRESS mheins1313@gmail.com	
ADDRESS	CITY	010-202-0010	STATE	ZIP CODE	1 4 1 1 1 1 1 1 1 1
32583 Hanna Ave	Warsaw		MO	65355	
7.0 APPLICATION FEE	Carrier o	the state of the state	The stander to	and the second second second	2.3
		JETPAY CONFIRMATION N	UMBER 200440	90	100.4
8.0 PROJECT OWNER: I certify under per supervision in accordance with a system de submitted. Based on my inquiry of the perso gathering the information, the information su aware that there are significant penalties for knowing violations.	signed to a on or perso ubmitted is,	issure that qualified p ns who manage the s to the best of my kno	ersonnel prop system, or thoso owledge and b	erly gather and evaluate the informate persons directly responsible for elief, true, accurate, and complete.	
					ation I am
Amy Grace				DATE	ation I am
				Le-7-2023	ation I am
TITLE OR CORPORATE POSITION		TELEPHONE NUMBER WIT	TH AREA CODE	Le-7-2023 E-MAIL ADDRESS	ation I am
Owner Mail completed copy to: MISSOUR WATER P P.O. BOX	ROTECTIO	727-200-2510 MENT OF NATURAL ON PROGRAM	1.1.1.1	E-MAIL ADDRESS agrace@gracecommunities.com	ation I am
Owner Mail completed copy to: MISSOUR WATER P P.O. BOX	ROTECTIO	727-200-2510 MENT OF NATURAL	1.1.1.1	E-MAIL ADDRESS agrace@gracecommunities.com	ation I am
Owner Mail completed copy to: MISSOUR WATER P P.O. BOX	PROTECTION 176 ON CITY, 1	727-200-2510 MENT OF NATURAL ON PROGRAM MO 65102-0176 END OF PART A.	RESOURCE	E-MAIL ADDRESS agrace@gracecommunities.com S T B NEEDS TO BE COMPLETE.	ation I am

-	T B – LAND APPLICATION ONLY omit only if the proposed construction project includes land application of wastewater.)
3.0	FACILITY INFORMATION
3.1	Type of wastewater to be irrigated:  Domestic  State/National Park  Seasonal business Municipal  Municipal with a pretreatment program or significant industrial users Other (explain)
3.2	Months when the business or enterprise will operate or generate wastewater:
3.3	This system is designed for: No-discharge. Partial irrigation when feasible and discharge rest of time. Irrigation during recreational season, April – October, and discharge during November – March. Other (explain)
9.0	STORAGE BASINS
9.1	Number of storage basins: (Use additional pages if greater than three basins.)
9.2	Type of basins: Steel Concrete Fiberglass Earthen Earthen with membrane liner
9.3	Storage basin dimensions at inside top of berm (feet). Report freeboard as feet from top of berm to emergency spillway or overflow pipe.         Basin #1: Length Width Depth Freeboard Depth Safety % Slope         Basin #2: Length Width Depth Freeboard Depth Safety % Slope         Basin #3: Length Width Depth Freeboard Depth Safety % Slope
	Storage Basin operating levels (report as feet below emergency overflow level).         Basin #1:       Maximum operating water levelft         Basin #2:       Maximum operating water levelft         Basin #3:       Maximum operating water levelft         Minimum operating water levelft       Minimum operating water levelft         Basin #3:       Maximum operating water levelft         Minimum operating water levelft       Minimum operating water levelft         Design depth of sludge in storage basins.       Minimum operating water levelft
15	Basin #1:      ft       Basin #2:      ft         Existing sludge depth, if the basins are currently in operation.
	Basin #1: ft Basin #2: ft Basin #3: ft
9.7	Total design sludge storage: dry tons and cubic feet
10.0	LAND APPLICATION SYSTEM
10.1	Number of irrigation sites       Total Acres       Maximum % field slopes         Location:       14,14,14,Sec.       T       R       CountyAcres         Location:       14,14,14,14,Sec.       T       R       CountyAcres         (Use additional pages if greater than three irrigation sites.)       T       R       CountyAcres
10.2	Type of vegetation: Grass hay Pasture Timber Row crops     Other (describe)
10.3	Wastewater flow (dry weather) gallons per day: Average annual Seasonal Off-season
10.4	Land application rate (design flow including 1-in-10 year storm water flows):         Design:
10.5	i Total irrigation per year (gallons): Design: gal Actual: gal
10.6	Actual months used for irrigation (check all that apply):
	✓ Land application rate is based on:         ☐ Hydraulic Loading       ☐ Other (describe)         ☐ Nutrient Management Plan (N&P)       If N&P is selected, is the plan included?       ☐ YES       NO         2189 (02-19)       Page