STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

The Missouri Depar	rtment of Natural F	Resources hereb	y issues a	permit to:
--------------------	---------------------	-----------------	------------	------------

Construction Permit ID: MOGSE0445

Title of Project: Spring Valley RV Park
Owner: Spring Valley RV Park
Address: 201 Stinger Dr

BRANSON, MO 65616

The project will also include general site work appropriate to the scope and purpose of the project and will include all the necessary appurtenances to make a complete and usable collection system. The construction of this project will be in the vicinity of the county below and discharge to Receiving Permit ID below:

County: Taney Receiving Permit ID: MO0025241

for the construction of (described construction project):

Spring Valley RV Park - Construction of approximately 2,439 lineal feet of 8-inch diameter SDR-35 PVC and 383. lineal feet of 8-inch diameter C-900 gravity sewer main with 19 manholes to serve a proposed 150 unit RV Park which has a design flow of 13,500 gallons per day and a PE of 213 people.

The project is in the vicinity of Buzz Street and Yellow Jacket in Branson, Taney County and discharges into an existing system to be treated at the Branson, Compton Drive Wastewater Treatment Facility, MO-0025241. Kendall Powell, Utilities Director of City of Branson, signed the Wastewater Treatment Facility Acceptance form on November 3, 2022.

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.

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

December 08, 2022	Chie Wieleng	
Issue Date	Chris Wieberg, Director	
	Water Protection Program	

December 07, 2024

Expiration Date

APPLICABILITY

- 1. This permit authorizes the construction of gravity sewer extensions, force mains, and lift stations. Non-earthen flow equalization storage basins at lift stations and inline storage, which flows back into the lift station or collection system, are also included.
- 2. A site specific sewer extension construction permit may be required by the Department due to compliance and enforcement actions.
- 3. Projects located within an Approved Sewer Program as noted in the operating permit of the receiving wastewater treatment facility are not required to obtain a construction permit from the Department of Natural Resources (Department).
- 4. This permit does not apply to:
 - A. Earthen storage basins;
 - B. Exempt projects unless requested by the applicant or required by enforcement.

PREREQUISITES:

- 1. The General Sewer Extension Construction Permit application, appropriate fee, and documentation in accordance with 10 CSR 20-6.010(5)(G).
- 2. The plans and specifications each signed and sealed by a professional engineer registered in the State of Missouri in accordance with 10 CSR 20-8 and 10 CSR 20-6.010.
- 3. The Design Certification form or Engineering Report or Summary of Design signed and sealed by a professional engineer registered in the State of Missouri certifying the design of the system was prepared in accordance with 10 CSR 20-6 and 10 CSR 20-8.
- 4. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting the wastewater for treatment and indicating the permitted treatment facility has the available capacity.
- 5. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting the responsibility for operation and maintenance of these facilities.

PERMIT CONDITIONS:

- 1. This permit authorizes the activities and scope of work detailed in the plans and specifications submitted with the request.
- 2. The construction must be in accordance with the final plans and specifications approved by the Department.
- 3. 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 regional office per 10 CSR 20-7.015(9)(E)2., or through the Online Bypass/SSO Reporting system found at https://dnr.mo.gov/eservices.htm under Water Protection.

PERMIT CONDITIONS: (continued)

- 4. Protection of drinking water supplies must meet the requirements of 10 CSR 23-3.010.
 - A. There shall be no physical connections between a public or private potable water supply system and a sewer, or appurtenance thereto, which would permit the passage of any wastewater or polluted water into the potable supply.
 - B. Sewers shall be laid at least fifty feet (50') in a horizontal direction from any existing or proposed public water supply well or other water supply sources or structures.
- 5. Manholes shall be located with the top access at or above grade level.
- 6. In addition to the requirements for a construction permit, see 10 CSR 20-6.200 for land disturbance requirements 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 www.dnr.mo.gov/env/wpp/epermit/help.htm.

See <u>www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm</u> for more information.

7. A United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) issued by the Department or permit waiver may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S. then a 404/401 will be required. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the Department's Water Protection Program at 573-751-1300 for more information.

See www.dnr.mo.gov/env/wpp/401/ for more information.

- 8. If this project eliminates a wastewater treatment facility under the jurisdiction of the Department, then a full closure plan shall be submitted with a Facility Closure Request Form, Form MO 780-2512 to the Department's appropriate regional office for review and approval. In accordance with 10 CSR 20-6.010(12), the closure plan must meet the requirements outlined in Standard Conditions Part III, of the Missouri State Operating Permit. Closure shall not commence until the submitted closure plan is approved by the Department.
- 9. If this project is part of a project to resolve an enforcement action or is receiving funding from the Department, submit a statement of work complete following the completion of construction

MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM

APPLICATION FOR CONSTRUCTION PERMIT – SEWER EXTENSION

FOR DEPAR	TMENT USE ONLY
APP NO.	CP NO.
FEE RECEIVED	CHECK NO.
DATE RECEIVED	

				DATE RECEIVED				
NOTE ► PLEASE READ THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM								
1.0 APPLICATION INFORMATION (Note – If any of the questions in this section are answered NO, this application may be								
considered incomplete and returned.)								
1.1 Is this a Federal/State funded project? ☐ YES ☑ N/A Funding Agency: Project #:								
1.2 Has the Department of Natural Resources approved the proposed project's engineering report*? ☐ YES Date of Approval: ☐ NO ☐ N/A								
1.3 Is a copy of the appropriate plans* and s	pecificatio	ns* included with this ap	plication?	✓ YES □ NO				
1.4 Is a summary of design* included with th	is applicat	ion? 🛭 YES 🗌 NO)					
1.5 Is the appropriate fee or JetPay confirma See Section 7.0	tion includ	ded with this application?	? ☑ YES [□NO				
* Must be affixed with a Missouri registered p	rofessiona	al engineer's seal, signat	ure and date.					
2.0 PROJECT INFORMATION 2.1 NAME OF PROJECT								
Spring Valley RV Park								
ADDRESS	CITY		STATE	ZIP CODE	COUNTY			
201 Stinger Drive		Branson	MO	65616	Taney			
2.2 Legal Description: ¼,	, NW	¼, Sec. ₂₁ , T	23N , R 2	1W				
2.3 Project Components (check all that apply ☑ Gravity sewers ☐ Pumping station		orce mains	tive sewer sys	stem	escribe below.)			
2.4 PROJECT DESCRIPTION			14 4 401	l II	D) (0			
Construction of 2,439 lineal feet of 8 inch diar main with 19 manholes to serve a proposed 1			eal feet of 8 ir	nch diameter C-900	PVC gravity sewer			
main with to marinolog to corve a proposed t	oo amere	v r and						
2.5 DESIGN INFORMATION								
A. Population or number of lots to be served	by this ex	tension: PE = 213						
B. Estimated flow to be contributed by this ex	xtension:	Design Average Flow: 1	13560 gpd	Design Peak Hourly	/ Flow: 2,339 gph			
C. Industrial Wastes: Type: N/A	Flo	w: _{N/A} gpd						
D. Receiving Sewer: Size: 8 inches	Сар	acity: 391 gpm						
3.0 PROJECT OWNER								
Quality Structures of Arkansas, LLC		TELEPHONE NUMBER WITH AR 417-338-6000		email address qualitystructures1	@gmail.com			
ADDRESS 75 Grergory Lane	CITY	Branson	MO STATE	ZIP CODE 65616				
4.0 CONTINUING AUTHORITY: A continuing	authority	is a company, business	s, entity or per	rson(s) that will be o	perating the facility			
or ensuring compliance with the permit requi	rements. A	A continuing authority is	not, however,	, an entity or individ	ual that is			
contractually hired by the permittee to sample								
operator or analytical laboratory. To access the visit https://s1.sos.mo.gov/cmsimages/adrule								
it appears on the Missouri Secretary of State			Continuing a	utilonty s name mus	si be listed exactly as			
https://bsd.sos.mo.gov/BusinessEntity/BESea			the continuing	authority is an indi	vidual(s),			
government, or otherwise not required to regi	ster with t			L FAARI ARRESO				
NAME Quality Structures of Arkansas, LLC		TELEPHONE NUMBER WITH AR 417-338-6000	REA CODE	email address qualitystructures1	@gmail.com			
ADDRESS	CITY		STATE	ZIP CODE				
75 Gregory Lane	В	Branson	MO	65616				
4.1 A letter from the continuing authority or the				ater Treatment Faci	lity Acceptance form,			
if different than the owner, is included with thi	s applicati	ion. 🗹 YES 🗌 NO	☐ N/A					

MO 780-1632 (10-19) Page 1 of 2

()	≋ ≋
	A

MISSOURI DEPARTMENT OF NATURAL RESOURCES

WATER PROTECTION PROGRAM

APPLICATION FOR CONSTRUCTION PERMIT -SEWER EXTENSION

FOR DEPA	RTMENT	USE ONLY
APP NO.	CP NO.	MH
FEE RECEIVED	CHEC	CK NO.
DATE RECLUSE:	11.9.2	22

NOTE ▶ PLEASE READ THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM								
1.0 APPLICATION INFORMATION (Note – If any of the questions in this section are answered NO, this application may be considered incomplete and returned.)								
1.1 Is this a Federal/State funded project? ☐ YES ☑ N/A Funding Agency: Project #:								
1.2 Has the Department of Natural Resources approved the proposed project's engineering report*? ☐ YES Date of Approval: ☐ NO ☐ N/A								
1.3 Is a copy of the appropriate plans* and specifications* included with this application? ✓ YES ☐ NO								
1.4 Is a summary of design* included with this application? ✓ YES □ NO								
1.5 Is the appropriate fee or JetPay confirms See Section 7.0	ition inclu	ded with this application?	YES [□NO				
* Must be affixed with a Missouri registered p	rofession	al engineer's seal, signat	ure and date.					
2.0 PROJECT INFORMATION 2.1 NAME OF PROJECT								
Spring Valley RV Park								
ADDRESS	CITY		STATE	ZIP CODE	COUNTY			
201 Stinger Drive		Branson	MO	65616	Taney			
2.2 Legal Description: 1/4,	¹ / ₄ , NW	14, Sec. ₂₁ , T	23N , R ₂	1W				
2.3 Project Components (check all that apply ☐ Gravity sewers ☐ Pumping station		orce mains	tive sewer sys	stem	escribe below.)			
2.4 PROJECT DESCRIPTION								
Construction of 2,439 lineal feet of 8 inch diar			eal feet of 8 ir	nch diameter C-900	PVC gravity sewer			
main with 19 manholes to serve a proposed 1	50 unit R	V Park.						
2.5 DESIGN INFORMATION A. Population or number of lots to be served	by this ex	tension: PE = 213		-				
B. Estimated flow to be contributed by this ex	ktension:	Design Average Flow: 1	13560 gpd	Design Peak Hourly	/ Flow: 2,339 gph			
C. Industrial Wastes: Type: N/A	Flo	w: _{N/A} gpd						
D. Receiving Sewer: Size: 8 inches	Сар	pacity: 391 gpm						
3.0 PROJECT OWNER			, A .					
NAME		TELEPHONE NUMBER WITH AR	REA CODE	EMAIL ADDRESS				
Quality Structures of Arkansas, LLC		417-338-6000		qualitystructures1@	@gmail.com			
ADDRESS	CITY	Danie	STATE	ZIP CODE				
75 Grergory Lane		Branson	MO	65616	41 6 334			
4.0 CONTINUING AUTHORITY: A continuing authority is a company, business, entity or person(s) that will be operating the facility 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.								
NAME City of Branson		TELEPHONE NUMBER WITH AR 417-243-2733	KEA CODE	EMAIL ADDRESS kpowell@bransonr	no gov			
ADDRESS	CITY	711-240-2100	STATE	ZIP CODE				
110 W. Maddux		Branson	MO	65616				
4.1 A letter from the continuing authority or the				ater Treatment Facil	ity Acceptance form,			
if different than the owner, is included with thi	s applicat	ion. 🗹 YES 🗌 NO	□ N/A					

MO 780-1632 (10-19)

RECEIVED Page 1 of 2

NOV 09 2022

Water Protection Program

5.0 ENGINEER					
ENGINEER NAME / COMPANY NAME	TELEPHONE NUMBER WITH AREA CODE		EMAIL ADDRESS		
Wayne Diebold - Rozell Engineering Comp	any	417-334-4141		wdiebold@rozellgroup.net	
ADDRESS CITY			STATE	ZIP CODE	
2404 State Hwy 248 Suite 4	Br	anson	MO	65616	
6.0 RECEIVING WASTEWATER TREATMENT	MENT FACIL				
NAME		TELEPHONE NUMBER WITH AF	REA CODE	EMAIL ADDRESS	
Compton Drive WWTF _ Branson		417-243-2740		kpowell@bransonmo.gov	
MISSOURI STATE OPERATING PERMIT #		REMAINING CAPACITY (GPD)			
MO-0025241		2.3 MGD			
6.1 Has the receiving treatment facility ag	eed to acce	ot the additional wastewa	ater flow?	✓ YES □ NO	
6.2 A letter from the receiving wastewater ☐ YES ☐ NO ☑ N/A	treatment fa	cility, if different than the	continuing	authority, is included with this application.	
7.0 Application Fee					
☐Check Number		✓JetF	ay Confirma	ation Number Pending	
8.0 PROJECT OWNER: I certify under pe supervision in accordance with a system of submitted. Based on my inquiry of the pergathering the information, the information aware that there are significant penalties for knowing violations.	esigned to a son or persor submitted is,	ssure that qualified persons who manage the system to the best of my knowle	onnel proper em, or those edge and be	ly gather and evaluate the information persons directly responsible for lief, true, accurate, and complete. I am	
PROJECT OWNER SIGNATURE					
PRINTED NAME Gary Shaver				x 11-4-2022	
TITLE OR COPORATE POSITION		TELEPHONE NUMBER WITH AR	REA CODE	EMAIL ADDRESS	
Managing Member		417-338-6000		qualitystructures1@gmail.com	
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176					
MO 780-1632 (10-19)				Page 2 of 2	

SEWER EXTENSION DESIGN CERTIFICATION

Answer all questions yes, no, or N/A. Answer N/A only if the question is clearly not applicable to the design of the proposed sewer extension **OR** if a deviation was previously allowed by the Department in the approval of Standard specifications or Standard Detail Sheets.

9.0	SEWER EXTENS	SION CHECKLIST			
	REGULATION		YES	NO	N/A
1	8.110(9)(B)	Are detailed plans showing tributary area, boundaries, pertinent elevations, topography, existing and proposed facilities provided?	V		
2	8.110(3)(A)	Is the design flow based on actual flow data for an existing system?	V		
3	8.110(3)(B)	Are average design flows, peak hourly flows, and I&I contributions for new systems calculated.	V		
4	8.120(2)	Does the sewer exclude water from roofs, streets, groundwater from foundation drains, and combined wastewater?	V		
5	8.120(3)(C)	Is ASTM C969-17 leakage test specified to ensure water tight joint seals and appropriate exfiltration and infiltration rates?	V		
6	8.120(4)(A)	Are manholes located at all changes in grade, size or alignment, and all intersections?	V		
7	8.120(3)(A)1	Are all sewer pipes constructed with a slope to obtain mean velocities of not less than 2 feet per second?	V		
8	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?	V		
9	8.120(3)(A)	Is the pipe installation, embedment, and backfill designed to prevent damage to the pipe and its joints?	V		
10	8.120(3)(B)	Is deflection testing specified to ensure no pipe exceeds a deflection of 5% of the inside diameter?	~		
11	8.120(4)(C)	Are manholes at least 42 inches in diameter with a clear opening of 22 inches on sewer line larger than 8"?	~		
12	8.120(4)(C)	Where cleanouts are used at the end of a lateral instead of a manhole, are they a minimum diameter of 8 inches or larger and equal to the diameter for pipes < 8"?	V		
13	8.120(4)(E)	Are the manholes specified to be watertight, constructed, installed in accordance with the manufacturer's recommendations and procedures?	V		
14	8.120(4)(F)	Do the specifications include a requirement for inspection and testing for manholes?	~		
15	8.120(5)(B)	Are sewers and manholes located at least 50 feet horizontally from any existing or proposed water supply well, sources, structures?	~		
16	8.120(5)(A)	Is the sewer free from physical connections to a potable water supply system with no water pipes coming in contact with a sewer manhole?	V		

10.0	PRESSURE SE	WERS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST			
	REGULATION		YES	NO	N/A
17	8.125(5)(A)1.	Does the cleaning velocity of ≥ 2 ft/s happen at least once per day?			V
18	8.125(5)(A)2.	Is the diameter of the pressure sewer main pipe at least 1.5"?			V
19	8.125(5)B	Are appurtenances compatible with the piping system?			V
20	8.125(5)(C)	Do service line pipes have a minimum diameter of 1.25 in.?			V
21	8.125(5)(D)1. A	Do simplex grinder pump stations service only a single equivalent dwelling unit (EDU)? i.e. 1 residence – 1 grinder pump station.			V
22	8.125(5)(D)1. B	Are multiple unit pump stations owned, operated, maintained by an approved continuing authority?			V
23	8.125(5)(D)3	Is there at least 70 gallons of storage in the grinder pump unit?			V
24	8.125(5)(D)4	Do grinder pump stations have shutoff valves, check valves, and anti- siphon valves (where siphoning could occur) that are accessible from the ground surface?			~
25	8.125(5)(D)7 8.130(3)(B)2	Are units serviceable and replaceable under wet conditions without electrical hazard and electrical equipment suitable for hazardous locations (National Electrical Code, Class I, Group D, Division 1 location)?			V
26	8.125(5)(D)8 8.125(6)(F)6	Are provisions in place to avoid interruption of service due to mechanical or power failure by providing standby power, storage capacity or interconnection with another disposal system?			V
27	8.125(6)(D) 8.180(2)	Does each EDU have at least one septic tank with a minimum of 1,000 gallon capacity with 20% of tank volume dedicated to freeboard and ventilation?			V
28	8.125(6)(F)	Are pump vaults designed with duplex pumps for STEP sewer systems with design flow of 1,500 gallons per day or greater?			V
29	0 405/7\/\\	Leading with the CTEO and the CTEO CONTRACTOR OF THE CONTRACTOR OF			
	8.125(7)(A) 8.125(7)(C)	Is the minimum STEG sewerservice line at least 4" in diameter?			V
					V
	8.125(7)(C)		YES	NO	N/A
11.0	8.125(7)(C) PUMP STATION	Is the pump station designed to withstand the 100-year flood?	YES	NO	
11.0 30 31	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A)	Is the pump station designed to withstand the 100-year flood? Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?	YES	NO	N/A
30 31 32	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A) 8.130(3)(B)	Is the pump station designed to withstand the 100-year flood? Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each? If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided?	YES	NO O	N/A
30 31 32 33	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A) 8.130(3)(B) 8.130(3)(D)	Is the pump station designed to withstand the 100-year flood? Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each? If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided? Are valves located outside wet well unless integral to a pump or its housing?	YES	NO D	N/A
30 31 32	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A) 8.130(3)(B)	Is the pump station designed to withstand the 100-year flood? Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each? If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided? Are valves located outside wet well unless integral to a pump or its housing? Do wet and dry wells have separate ventilation systems?	YES	NO O	N/A
30 31 32 33 34 35	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A) 8.130(3)(B) 8.130(3)(D) 8.130(3)(F) 8.140(8)(J) 8.130(3)(G)	Is the pump station designed to withstand the 100-year flood? Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each? If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided? Are valves located outside wet well unless integral to a pump or its housing? Do wet and dry wells have separate ventilation systems? Does all potable water brought to the pump station comply with 8.140 (7) D?	YES	NO O	N/A V
30 31 32 33 34	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A) 8.130(3)(B) 8.130(3)(D) 8.130(3)(F) 8.140(8)(J) 8.130(3)(G) 8.130(6)	Is the pump station designed to withstand the 100-year flood? Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each? If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided? Are valves located outside wet well unless integral to a pump or its housing? Do wet and dry wells have separate ventilation systems? Does all potable water brought to the pump station comply with 8.140	YES	NO O	N/A V
30 31 32 33 34 35 36 37	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A) 8.130(3)(B) 8.130(3)(D) 8.130(3)(F) 8.140(8)(J) 8.130(3)(G) 8.130(6) 8.130(7)(A)	Is the pump station designed to withstand the 100-year flood? Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each? If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided? Are valves located outside wet well unless integral to a pump or its housing? Do wet and dry wells have separate ventilation systems? Does all potable water brought to the pump station comply with 8.140 (7) D? Is an alarm system provided with uninterrupted power? Is there 2 hours retention of the peak hourly flow for a design flow > 100,000 gpd or 4 hrs retention of the peak hourly flow for a design flow < 100,000 gpd?	YES	NO O	N/A V V V
30 31 32 33 34 35 36	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A) 8.130(3)(B) 8.130(3)(D) 8.130(3)(F) 8.140(8)(J) 8.130(3)(G) 8.130(6)	Is the pump station designed to withstand the 100-year flood? Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each? If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided? Are valves located outside wet well unless integral to a pump or its housing? Do wet and dry wells have separate ventilation systems? Does all potable water brought to the pump station comply with 8.140 (7) D? Is an alarm system provided with uninterrupted power? Is there 2 hours retention of the peak hourly flow for a design flow > 100,000 gpd or 4 hrs retention of the peak hourly flow for a design flow	YES	NO O	N/A V V V V V
30 31 32 33 34 35 36 37	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A) 8.130(3)(B) 8.130(3)(D) 8.130(3)(F) 8.140(8)(J) 8.130(3)(G) 8.130(6) 8.130(7)(A)	Is the pump station designed to withstand the 100-year flood? Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each? If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided? Are valves located outside wet well unless integral to a pump or its housing? Do wet and dry wells have separate ventilation systems? Does all potable water brought to the pump station comply with 8.140 (7) D? Is an alarm system provided with uninterrupted power? Is there 2 hours retention of the peak hourly flow for a design flow > 100,000 gpd or 4 hrs retention of the peak hourly flow for a design flow < 100,000 gpd? Is there an independent utility substation provided for emergency power that is capable of starting and operating the pump station at its rated	YES O O O O O O O O O O O O O	NO O	N/A V V V V V V

12.0	SUCTION LIFT	PUMP AND SUBMERSIBLE PUMP STATION CHECKLIST			
	REGULATION		YES	NO	N/A
41	8.130(4)	Are the suction lift pumps of the self priming or vacuum priming type?			V
42	8.130(4)(A)	Is the combined total of dynamic suction lift at the "pump off" elevation and required net positive suction head at design operating conditions less than or equal to twenty-two feet (22')?			V
43	8.130(4)(B)	Are there dual vacuum pumps capable of removing air from the suction lift pump?	,		V
44	8.130(5)(A)	Are submersible pumps readily removable and replaceable without personel entering, or disconnecting any pipe in the wet well?			V
13.0	CERTIFICATIO	N STATEMENT			
	I hereby certify t	s listed above. I am aware that there are significant penalties for submitting sibility of fine and imprisonment. The plan in this plan is pecification, and/or report was prepared by me or under not be also be a licensed Professional Engineer under the laws of the state of Missouri.			
Miss	ouri Professional	Engineer's Seal: WALNE DIEBOUR NUMBER 1-2/44			
Stree	e: Wayne Diebold et Address: 2404 S Branson	tate Hwy 248 Suite 4 State: MO ZIP Code: 65616			
Phon	e Number: 417-33	4-4141 Email: wdiebold@rozellgroup.net			