Gravois Arm Sewer District Phase VI Gravois Arm WWTP #2, MO-0134821 Page One

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

Dave Taylor Chairman Gravois Arm Sewer District 28982 Harbour Road Gravois Mills, MO 65037

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 3, 2023 Effective Date

November 2, 2025 Expiration Date

John Hoke, Direfor, Water Protection Program

CONSTRUCTION PERMIT

COLLECTION SYSTEM:

The proposed wastewater collection system will consist of a combination of conventional gravity sewer system and a low pressure sewer system with grinder pumps, lift stations, and force mains to carry raw wastewater to the receiving wastewater treatment facility.

Construction and installation of approximately 445 linear feet of 8-inch polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-35 gravity sewer with 7 manholes; 70,823 lf of 1.5-inch through 4-inch PVC SDR-21 force mains with cleanouts and air release valves; 4 duplex lift stations including Mermaid Cove lift station with each pump capable of operating at 180 gallons per minute (gpm) at 95 feet of total dynamic head (TDH), Buck Creek lift station with each pump capable of operating at 220 gpm at 155 TDH, Nob Rock lift station with each pump capable of operating at 90 gpm at 130 TDH, and King Road lift station with each pump capable of operating at 90 gpm at 130 TDH; 20 duplex grinder pump stations, 173 simplex grinder pump stations, and all necessary appurtenances to make a complete and usable wastewater collection system to serve approximately 350 homes and an estimated design average flow of 80,000 gallons per day. The project will also include general site work appropriate to the scope and purpose of the project.

This project includes a variance for the sewer lines that do not meet the required minimum 50-foot separation in a horizontal direction from the existing private wells at six locations shown in the approved plans. The Missouri Clean Water Commission approves variance No. CWC-V-4-2023 on October 11, 2023 to allow Gravois Arm Sewer District to install the sewer lines provided that each of the sewer lines will be encased with a 3-inch Schedule 40 sleeve. The sewer lines and the sleeves will be pressure tested as per the approved plans and specifications.

These activities will be located primarily along roadways in already established neighborhoods between Laurie and Gravois Mills in Morgan County and discharge to an existing sewer system to be treated at the Gravois Arm WWTP #2, Missouri State Operating Permit No. MO-0134821.

PERMIT CONDITIONS:

- 1. All construction shall be in accordance with the plans and specifications submitted by Shoreline Surveying & Engineering as follows:
 - Specifications received on October 13, 2023 and signed and sealed by Jared Wheaton, P.E. on October 13, 2023.
 - Plans received on October 13, 2023 and signed and sealed by Jared Wheaton, P.E. on October 13, 2023.
- 2. The department must be contacted in writing prior to making any changes to the approved 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(8).

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- 3. If construction will incorporate minor changes from previously submitted plans and specifications (i.e., changes that do not affect the capacity, flow, or system layout), submit an electronic copy of the as-built plans and specifications in accordance with 10 CSR 20-8.110(11).
- 4. State and Federal Law does not permit bypassing of raw wastewater; therefore, the applicant must take steps 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) or through the Online Bypass/SSO Reporting service on the Missouri Gateway for Environmental Management (MoGEM) portal found at https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem.

See <u>https://dnr.mo.gov/document-search/missouri-gateway-environmental-management-mogem-frequently-asked-questions-pub2988/pub2988</u> for more information.

- 5. Protection of drinking water supplies must meet the requirements of 10 CSR 20-8.120(5).
 - A. There shall be no physical connections between a public or private potable water supply system and a sewer or appurtenance that would permit the passage of any wastewater or polluted water into the potable supply.
 - B. Except for the sewer lines approved under No. CWC-V-4-2023 on October 11, 2023, lay sewers at least 50 feet (50') in a horizontal direction from any existing or proposed public water supply well or other water supply sources or structures
- 6. Position manholes so that the top access is at or above grade level.
- 7. 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. Applicants shall obtain land disturbance permits through the Department's ePermitting system, available online at https://dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting.

See <u>https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/stormwater/construction-land-disturbance</u> for more information.

8. The Department may require a United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) or a permit waiver for the activities described in this permit. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S., then a 404/401 is required. Fulfillment of these requirements is necessary before the permit is considered valid. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the Department's Operating Permits Section at 573-522-4502 for more information.

See <u>https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality</u> for more information.

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- 9. Entities applying for funding under 10 CSR 20-4, "Grants and Loans" will need to comply with those requirements in addition to the requirements of 10 CSR 20-8.
- 10. If this project eliminates a wastewater treatment facility under the jurisdiction of the Department, then the applicant shall submit a full closure plan 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 Department approves the submitted closure plan.
- 11. If this project is part of a project to resolve an enforcement action or is receiving funding from the Department, submit a <u>statement of work complete</u> following the completion of construction.
- 12. Applicants may submit, prior to the expiration date of this permit, a written request that additional time is needed in accordance with 10 CSR 20-6.010(5)(H)3.

Sieu T. Dang, P.E. Engineering Section sieu.dang@dnr.mo.gov

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. The Missouri Department of Natural Resources may require a site-specific sewer extension construction permit due to compliance and enforcement actions in accordance with 10 CSR 20-6.010(13)(C).
- 3. This permit does not apply to:
 - A. Earthen storage basins;
 - B. Exempt projects in accordance with 10 CSR 20-6.010(1)(B), 10 CSR 20-6.010(5)(B), and RSMo 644.051 unless requested by the applicant or required by enforcement.

PREREQUISITES:

- 1. The Sewer Extension Construction Permit application, appropriate fee, and documentation in accordance with 10 CSR 20-6.010(5)(G).
- 2. Submit the Sewer Extension Construction Permit application at least sixty (60) days in advance of the start of construction in accordance with 10 CSR 20-6.010(5)(F).
- 3. Submit an electronic copy of the construction permit application and documents to <u>DNR.WPPEngineerSection@dnr.mo.gov</u> in accordance with 10 CSR 20-6.010(5)(G)3.
- 4. The plans and specifications, each signed, sealed, and dated by a professional engineer registered in the State of Missouri in accordance with 10 CSR 20-8 and 10 CSR 20-6.010.
- 5. The Design Certification form, Engineering Report, or Summary of Design, signed, sealed, and dated by a professional engineer registered in the State of Missouri, certifying the design of the system is in accordance with 10 CSR 20-6 and 10 CSR 20-8.
- 6. 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.
- 7. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting responsibility for the 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 received by the Department. Revisions that affect capacity, flow, or system layout must be approved by the Department prior to construction.

PERMIT CONDITIONS: (continued)

- 3. If construction will incorporate minor changes from previously submitted plans and specifications (i.e., changes that do not affect the capacity, flow, or system layout), submit an electronic copy of the as-built plans and specifications in accordance with 10 CSR 20-8.110(11).
- 4. State and Federal Law does not permit bypassing of raw wastewater; therefore, the applicant must take steps 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) or through the Online Bypass/SSO Reporting service on the Missouri Gateway for Environmental Management (MoGEM) portal found at https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem.

See <u>https://dnr.mo.gov/document-search/missouri-gateway-environmental-management-mogem-frequently-asked-questions-pub2988/pub2988</u> for more information.

- 5. Protection of drinking water supplies must meet the requirements of 10 CSR 20-8.120(5).
 - A. There shall be no physical connections between a public or private potable water supply system and a sewer or appurtenance that would permit the passage of any wastewater or polluted water into the potable supply.
 - B. Lay sewers at least 50 feet (50') in a horizontal direction from any existing or proposed public water supply well or other water supply sources or structures.
- 6. Position manholes so that the top access is at or above grade level.
- 7. 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. Applicants shall obtain land disturbance permits through the Department's ePermitting system, available online at https://dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting.

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8. Entities applying for funding under 10 CSR 20-4, "Grants and Loans" will need to comply with those requirements in addition to the requirements of 10 CSR 20-8.

PERMIT CONDITIONS: (continued)

9. The Department may require a United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) or a permit waiver for the activities described in this permit. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S., then a 404/401 is required. Fulfillment of these requirements is necessary before the permit is considered valid. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the Department's Operating Permits Section at 573-522-4502 for more information.

See <u>https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality</u> for more information.

- 10. If this project eliminates a wastewater treatment facility under the jurisdiction of the Department, then the applicant shall submit a full closure plan with a Facility Closure Request Form, <u>Form MO 780-2512</u>, to the Department's appropriate <u>regional office</u> 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 Department approves the submitted closure plan.
- 11. If this project is part of a project to resolve an enforcement action or is receiving funding from the Department, submit a <u>statement of work complete</u> following the completion of construction.
- 12. Applicants may submit, prior to the expiration date of this permit, a written request that additional time is needed in accordance with 10 CSR 20-6.010(5)(H)3.

MISSOURI DEPARTMENT OF WATER PROTECTION PROG APPLICATION FOR CO SEWER EXTENSION	RAM		2023	APP NO.	CP NO.			
		Water Protect	ion Program	DATE RECEIVED	4314			
			COMPLET		6.23 THAN			
NOTE ► PLEASE READ THE ACCOMPANI 1.0 APPLICATION INFORMATION (Note -					cation may be			
considered incomplete and returned.)	in any of		aon are are	morea ne, ana appi	Saustinay by			
1.1 Is this a Federal/State funded project?	VES	_			oject #:			
1.2 Has the Department of Natural Resources approved the proposed project's engineering report*? ☑ YES Date of Approval: July 2019 ☑ NO □ N/A								
1.3 Is a copy of the appropriate plans* and	-		pplication?	Z YES 🗌 NO				
1.4 Is a summary of design* included with the	nis applica	ation? 🗹 YES 🗌 N	10					
1.5 Is the appropriate fee or JetPay confirm See Section 7.0	ation inclu	ided with this application	n? ☑ YES	🗋 NO				
* Must be affixed with a Missouri registered	profession	al engineer's seal, sign	ature and da	ite.	√ ⁿ			
2.0 PROJECT INFORMATION 2.1 NAME OF PROJECT								
Gravois Arm Sewer District - Phase V								
ADDRESS 28982 Harbor Road	CITY Gravois	Mille	STATE MO	ZIP CODE 65037	COUNTY Morgan			
	1/4, 32			17W	Morgan			
	- " JZ		, iv	1144				
2.3 Project Components (check all that appl Gravity sewers Pumping station		orce mains 🗌 Alterna	ative sewer :	system 🗌 Other (I	Describe below.)			
Contact 1-Sanitary sewer extension consisting of approximately 121,000 +/- L.F. of 1.5"-4" inch force main, 21000 +/- L.F. of 4" Gravity, 16000 +/- L.F. of 3/4 Electrical conduit, 160 Simplex grinder pump stations, and 20 Duplex grinder pumps stations which will service 350+/- customers. along with 4 lift stations.								
B. Estimated flow to be contributed by this e	xtension:	Design Average Flow:	80k gpd	Design Peak Hourl	y Flow: 1300 gph			
C. Industrial Wastes: Type:	Flo	ow: gpd						
D. Receiving Sewer: Size: 6 & 8 inches	Cap	pacity: ₃₀₀ gpm						
3.0 PROJECT OWNER								
NAME Gravois Arm Sewer District		TELEPHONE NUMBER WITH A	REA CODE	EMAIL ADDRESS	Nom			
ADDRESS	CITY	010 012 0100	STATE	admin@gasdmo.c				
28982 Harbor Road	Gravois I		МО	65037				
4.0 CONTINUING AUTHORITY: A continuing or ensuring compliance with the permit requi contractually hired by the permittee to sample operator or analytical laboratory. To access t visit https://s1.sos.mo.gov/cmsimages/adrule it appears on the Missouri Secretary of State https://bsd.sos.mo.gov/BusinessEntity/BESea government, or otherwise not required to reg	rements. A e or opera he regulat es/csr/curr 's (SoS's) arch aspx'	A continuing authority is the and maintain the syst cory requirement regardi rent/10csr/10c20-6.pdf. webpage: ?SearchType=0, unless	not, howev tem for a de ng continuin A continuing the continui	er, an entity or indivic fined time period, suc g authority, 10 CSR 2 authority's name mu	lual that is h as a certified 20-6.010(2), please st be listed exactly as			
Gravois Arm Sewer District	573 372 3735	admin@gasdmo.com		om				
ADDRESS 28982 Harbor Road	CITY Gravois I	Mills	MO 65037					
4.1 A letter from the continuing authority or the					lity Acceptance form			
if different than the owner, is included with thi			N/A		Page 1 of 2			

`r

5.0 ENGINEER							
ENGINEER NAME / COMPANY NAME	TELEPHONE NUMBER WITH A	REA CODE	EMAIL ADDRESS /				
Jared Wheaton, Shoreline Surveying & Engi	573-392-3312		jared@shorelinese.com				
ADDRESS		STATE	- ZIP CODE				
3048 Hwy. 52 Eldon			MO	65026			
6.0 RECEIVING WASTEWATER TREATM	ENT FAC	LITY	11 A. 1.				
NAME		TELEPHONE NUMBER WITH A	TELEPHONE NUMBER WITH AREA CODE EMAIL ADDRESS				
Gravois Arm Sewer District		573 372 3735		admin@gasdmo.com			
MISSOURI STATE OPERATING PERMIT #		REMAINING CAPACITY (GPD)					
MO 143821		190,000					
6.1 Has the receiving treatment facility agre	ed to acce	ept the additional wastew	vater flow?	☑ YES □ NO			
6.2 A letter from the receiving wastewater tr ☐ YES ☐ NO ☑ N/A	eatment fa	acility, if different than the	e continuing	authority, is included with this application.			
7.0 Application Fee			1.00				
Check Number		∐Jet	Pay Confirm	ation Number			
8.0 PROJECT OWNER: I certify under pena supervision in accordance with a system des 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 n or perso bmitted is	assure that qualified pers ons who manage the syst , to the best of my knowl	ionnel prope tem, or those edge and be	rly gather and evaluate the information e persons directly responsible for elief, true, accurate, and complete. I am			
PROJECT OWNER SIGNATURE		21					
PRINTED NAME Dave Taylor, Gravois Arm Sewer District		DATE 2/2/23					
TITLE OR COPORATE POSITION	TELEPHONE NUMBER WITH AI	REA CODE	EMAIL ADDR SS				
Chairman	573 372 3735		admin@gasdmo.com				
WATER P P.O. BOX JEFFERS	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.

	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?			
2 `	8.110(3)(A)	Is the design flow based on actual flow data for an existing system?		\checkmark	
3	8.110(3)(B)	Are average design flows, peak hourly flows, and I&I contributions for new systems calculated.			
4	8.120(2)	Does the sewer exclude water from roofs, streets, groundwater from foundation drains, and combined wastewater?	\checkmark		
5	8.120(3)(C)	Is ASTM C969-17 leakage test specified to ensure water tight joint seals and appropriate exfiltration and infiltration rates?	\checkmark		
6	8.120(4)(A)	Are manholes located at all changes in grade, size or alignment, and all intersections?	\checkmark		
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?	\checkmark		
8	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?	\checkmark		
9	8.120(3)(A)	Is the pipe installation, embedment, and backfill designed to prevent damage to the pipe and its joints?	\checkmark		
10	8.120(3)(B)	Is deflection testing specified to ensure no pipe exceeds a deflection of 5% of the inside diameter?	\checkmark		
1 1	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"?	\checkmark		
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"?	1		
13	8.120(4)(E)	Are the manholes specified to be watertight, constructed, installed in accordance with the manufacturer's recommendations and procedures?	\checkmark		
14	8.120(4)(F)	Do the specifications include a requirement for inspection and testing for manholes?	\checkmark		
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?	\checkmark		
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?	\checkmark		

	REGULATION	RS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST							
17		Does the cleaning velocity of ≥ 2 ft/s happen at least once per day?			N/A				
	8.125(5)(A)1.			┝╘╡					
18	8.125(5)(A)2.	Is the diameter of the pressure sewer main pipe at least 1.5"?							
19	8.125(5)B	Are appurtenances compatible with the piping system?							
20	8.125(5)(C)	Do service line pipes have a minimum diameter of 1.25 in.?							
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.							
22	8.125(5)(D)1. B	Are multiple unit pump stations owned, operated, maintained by an approved continuing authority?			\checkmark				
23	8.125(5)(D)3	Is there at least 70 gallons of storage in the grinder pump unit?			\checkmark				
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)(D)7 Are units serviceable and replaceable under wet conditions without							
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?			\checkmark				
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?							
29	8.125(7)(A) 8.125(7)(C)	Is the minimum STEG sewerservice line at least 4" in diameter?							
11.0	PUMP STATION	I CHECKLIST			,				
	REGULATION		YES	NO	N/A				
30	8.130(2)(A) 8.140(2)(B)	Is the pump station designed to withstand the 100-year flood?							
31	8.130(3)(A)	Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?							
32	8.130(3)(B)	If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided?							
33	8.130(3)(D)	Are valves located outside wet well unless integral to a pump or its housing?							
34	8.130(3)(F) 8.140(8)(J)	Do wet and dry wells have separate ventilation systems?							
35	8.130(3)(G)	Does all potable water brought to the pump station comply with 8.140 (7) D?			\checkmark				
36	8.130(6)	Is an alarm system provided with uninterrupted power?							
37	8.130(7)(A)	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?	V						
38	8.130(7)(B)	Is there an independent utility substation provided for emergency power that is capable of starting and operating the pump station at its rated capacity?	\checkmark						
39	8.130(8)(A)	Is the force main velocity of ≥ 2 ft/s maintained?							
10	8.130	Are there complete operation instructions for the pumping stations	لنصا		- Income				

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?						\checkmark			
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')?						\checkmark			
43	8.130(4)(B)	Are there dual vacuum p lift pump?		<u> </u>							
44	8.130(5)(A)	Are submersible pumps readily removable and replaceable without personel entering, or disconnecting any pipe in the wet well?						· ·			
13.0	13.0 CERTIFICATION STATEMENT										
I hereby certify that the design plans and specifications for this project, to the best of my knowledge, conform to the requirements listed above. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I hereby certify that this plan, specification, and/or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Missouri. For any question answered "NO" provide explanation. Provide any useful comments on design for review engineer: #2: Design flow is based on design flow per DNR guidelines, not actual flow.											
Misso	ouri Professional I	Engineer's Seal:									
						*					
Name: Jared Wheaton, PE Street Address: 3048 Hwy. 52 City: Eldon State: MO ZIP Code: 65026											
Phone	e Number: 573-39	2-3312	Email: jared@shore	elinese.com							