

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

In the matter of the Application of United Services, Inc., for)
a Certificate of Convenience and Necessity Authorizing it)
to Construct, Install, Own, Operate, Maintain, Control, and)
Manage Sewer Systems in unincorporated areas in Andrew)
and Nodaway Counties, Missouri.)

Case No. _____

APPLICATION AND REQUEST FOR WAIVER

COMES NOW United Services, Inc. (“United”), pursuant to Section 393.170, RSMo., 4 CSR 240-2.060(1), and 4 CSR 240-3.305, for its application for a certificate of convenience and necessity authorizing it to construct, install, own, operate, control, manage, and maintain sewer system for the public, located on unincorporated areas in Andrew and Nodaway Counties, Missouri, states to the Missouri Public Service Commission (“Commission”) as follows:

1. United is a Missouri corporation duly organized and existing under the laws of the State of Missouri with its principal office and place of business located at 30208 U.S. Highway 136, P.O. Box 757, Maryville, MO 64468; and, further, United is a wholly owned subsidiary of United Electric Cooperative, Inc., which is a duly authorized rural electric cooperative existing under and by virtue of the laws of the State of Missouri. A copy of United’s Articles of Incorporation, Certificate of Incorporation, and Certificate of Good Standing are attached to this Application as *Exhibit 1*.

2. United has no pending action or final unsatisfied judgments or decisions against it from any state or federal agency or court within the past three (3) years that involve customer service or rates. United has no annual reports or assessment fees that are overdue.

3. United provides sewer service to approximately 284 customers in Andrew and Nodaway Counties, Missouri. United is a “sewer corporation” and “public utility” as those terms

are defined in Section 386.020, RSMo., and is subject to the jurisdiction and supervision of the Commission as provided by law.

4. Correspondence, communications, orders, and decisions regarding this Application should be addressed to the undersigned counsel and:

Darren Farnan
Manager of Compliance and Community Relations
30208 U.S. Highway 136
P.O. Box 757
Maryville, MO 64468
800-748-1488
dfarnan@ueci.coop

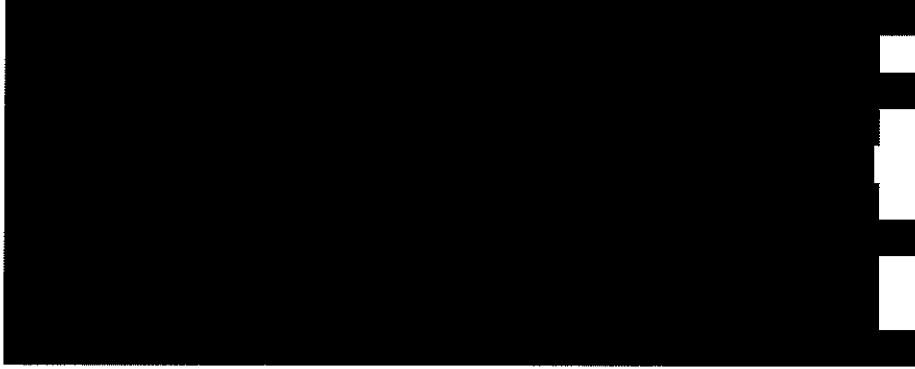
5. By this Application, United requests permission, approval, and a Certificate of Convenience and Necessity authorizing it to construct, install, own, operate, control, manage and maintain a sewer system for the public in certain unincorporated areas of Andrew and Nodaway Counties, Missouri. Legal descriptions of the areas to be certificated are attached hereto as *Exhibit 2*. Maps of the areas sought to be certificated are attached to this Application as *Exhibit 3*.

6. The areas for which United is seeking to be certified by this Application are already developed. The subject sewer collection systems have already been constructed and are in operation. Sewer service is not currently offered in the area by any unregulated entity or other regulated entity.

7. A feasibility study containing plans and specifications for the utility systems and related financial information including rates and charges and revenues and expenses for the previous three (3) years and projections for the upcoming three (3) years is attached to this Application as *Exhibit 4*.

8. There are currently nineteen (19) active customers in the Country Side View Subdivision and proposed service area. The resident's names and addresses are as follows:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.



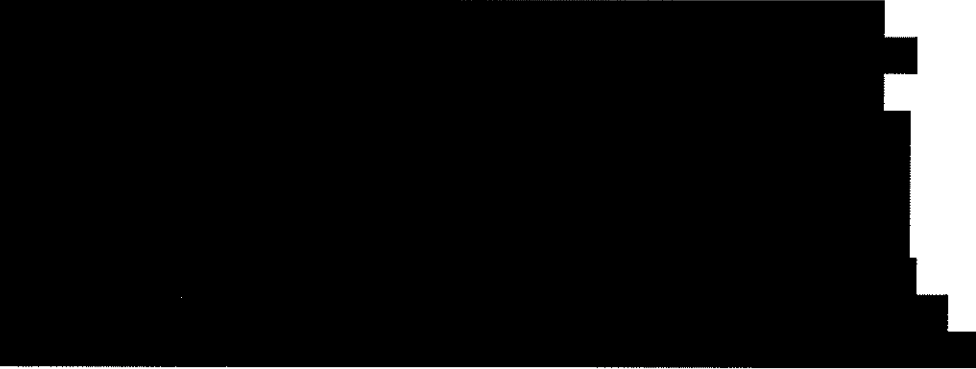
9. There are currently thirty-three (33) active customers in the Dawn Valley Subdivision and proposed service area. The resident's names and addresses are as follows:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.



10. There are currently twenty-three (23) active customers in the Highland Estates Subdivision and proposed service area. The resident's names and addresses are as follows:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.



11. There are currently seventy (70) active customers in the Indian Ridge Development subdivision and proposed service area. The resident's names and addresses are as follows:

- 1.

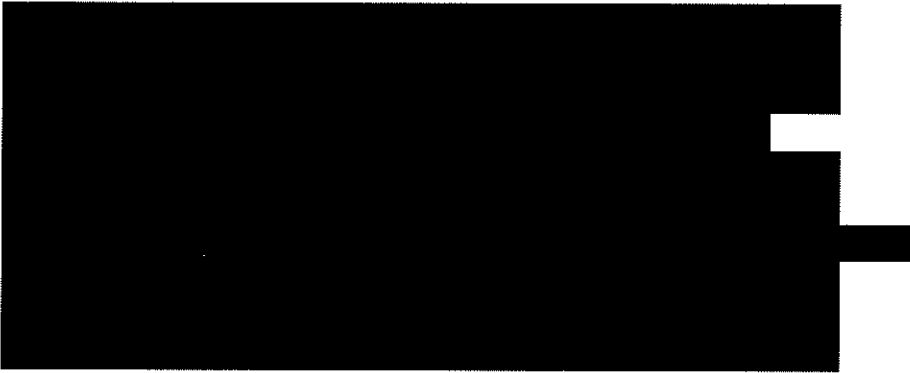


- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.



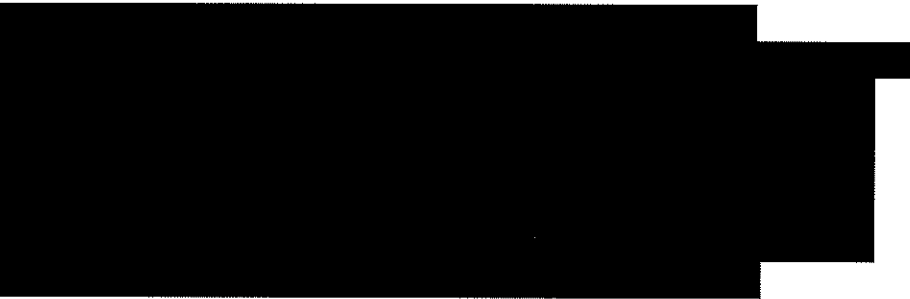
12. There are currently eighteen (18) active customers in the Millstone Subdivision and proposed service area. The resident's names and addresses are as follows:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.



13. There are currently eight (8) active customers in the Pleasant View Addition subdivision and proposed service area. The resident's names and addresses are as follows:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

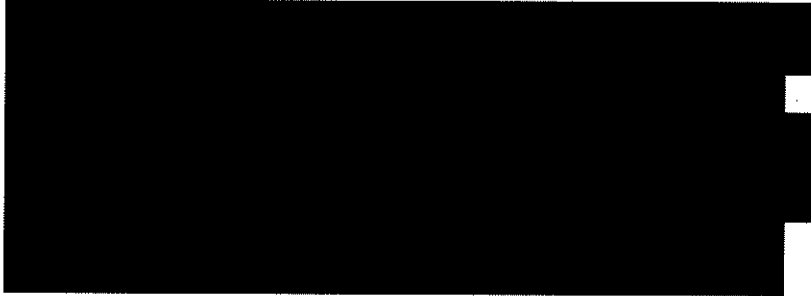


14. There are currently thirty (30) active customers in the Meadow View/Spring Meadows Subdivision and proposed service area. The resident's names and addresses are as follows:

- 1.
- 2.

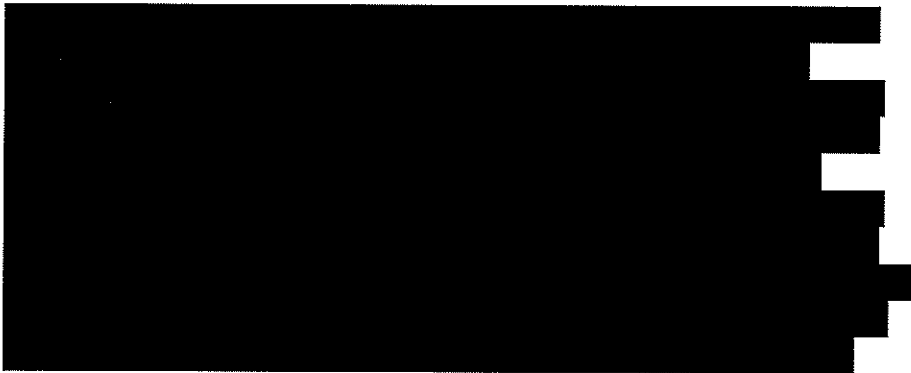


- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.



15. There are currently nineteen (19) active customers in the Scout Ridge Estates subdivision and proposed service area. The resident's names and addresses are as follows:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.



16. There is currently one (1) active customer in the Stoll Addition subdivision and proposed service area. The resident's name and address are as follows:

- 1.



17. There are currently sixty-nine (69) in the Tuscany Lake / Vista Ridge Subdivision (service area includes West Ridge and Bristol subdivisions) and proposed service area. The resident's names and addresses are as follows:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.



18. There are no municipalities located within the proposed areas. Applicant has complied with all known legal requirements of the Andrew County Commission and Nodaway County Commission to operate in said county.

19. Said sewer systems meet all requirements of the Commission and the Department of Natural Resources. Copies of the Missouri State Operating Permits from the Department of Natural Resources are attached to this Application as *Exhibit 5*.

20. There are no other public utilities or governmental bodies operating or rendering sewer service to the public within the area proposed to be served.

21. The areas for which United is seeking to be certified by this Application are already developed into subdivisions and are continuing to be further developed. The subject sewer collection systems have already been constructed and are in operation. A public need exists for adequate sewer service within the area proposed to be served and the public convenience and necessity will be promoted by the granting of the authority herein requested. A central collection and treatment system that is operated and maintained in a safe and orderly manner is the best suited wastewater system for these subdivisions and for the Citizens of Missouri in general.

22. The granting of this application is in the public interest because it will present an opportunity for the public in the area proposed to be served to obtain and utilize sewer service which is otherwise unavailable, and make the area more attractive to develop, with the corresponding benefits of temporary and permanent jobs and, in general, better livelihood for citizens of Andrew and Nodaway County and the State of Missouri.

23. United has not filed a 60-day notice pursuant to 4 CSR 240-4.017 and requests a waiver of this requirement. Although §393.170, RSMo. requires a hearing, or the opportunity for a hearing, before a CCN is granted, United does not anticipate this proceeding being controversial

or “contested” in that sense. Further, United declares (as verified below) that it has had no communication with the office of the Commission (as defined by Commission Rule 4 CSR 240-4.015(10)) within the prior 150 days regarding any substantive issue likely to be in this case, other than those pleadings filed for record. Accordingly, for good cause shown, United moves for a waiver of the 60-day notice requirement of Rule 4 CSR 240-4.017(1) and acceptance of this Application.

WHEREFORE, United respectfully requests, for good cause shown, that the Commission waive the notice requirement of 4 CSR 240-4.017 and approve this Application issuing its order granting United permission, approval and a certificate of convenience and necessity authorizing it to construct, install, own, operate, control, manage, and maintain a sewer utility system for the public in unincorporated areas in Andrew and Nodaway Counties, Missouri as more particularly described herein; and such other and further relief as the Commission deems appropriate.

ANDERECK, EVANS, LEWIS, FIGG & BATTAGLER, LLC

BY 

William S. Lewis – 39119
Miles B. Figg – 70056
119 East Main Street
P.O. Box 654
Smithville, Missouri 64089
Telephone: (816) 532-3895
Facsimile: (816) 532-3899
E-Mail: wlewis@lawofficemo.com
E-Mail: mfigg@lawofficemo.com

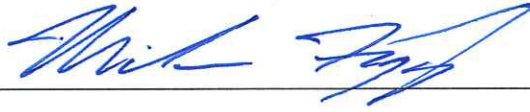
Attorneys for United Services, Inc.

CERTIFICATE OF SERVICE

I do hereby certify that a true and correct copy of the foregoing document has been sent by electronic mail this 29th day of November, 2018, to:

General Counsel's Office
Missouri Public Service Commission
staffcounsel@psc.mo.gov

Office of the Public Counsel
Office of the Public Counsel
opcservice@ded.mo.gov



VERIFICATION


STATE OF MISSOURI)
)
COUNTY OF Andrew) ss.

Darren Farnan, of lawful age, being duly sworn upon his oath, states as follows:

1. I am the Manager of Compliance and Community Relations of United Services, Inc. and am authorized to make this affidavit on behalf of United Services, Inc.

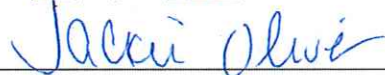
2. That I have reviewed the Application for unincorporated areas of Andrew and Nodaway County, Missouri, commonly known as the Tuscany Lake/Vista Ridge, Stoll Addition, Scout Ridge, Meadow View/Spring Meadows, Pleasant View Addition, Millstone, Indian Ridge Development, Highland Estates, Dawn Valley, and County Side View Subdivisions, and the same is true and correct to the best of my knowledge.

3. That no representative of United Services, Inc. has had any communication with the office of the Missouri Public Service Commission, as defined in Commission Rule 4 CSR 240-4.015(10), within the immediately preceding 150 days regarding the subject matter of this Application.



Darren Farnan, Manager of
Compliance and Community
Relations

Subscribed and sworn to before me, a Notary Public, this 20 day of Nov, 2018.



Notary Public

My Commission Expires:

June 9, 2022



FILED AND CERTIFICATE OF
INCORPORATION ISSUED

JUN 03 1993

Judith K. D'Arriarte
SECRETARY OF STATE

**ARTICLES OF INCORPORATION OF
NODAWAY WORTH SERVICES, INCORPORATED**

KNOW ALL MEN BY THESE PRESENTS:

That we, the undersigned, being natural persons of the age of eighteen (18) years or more, and pursuant to the General and Business Corporation Act of Missouri, do hereby adopt the following Articles of Incorporation:

ARTICLE ONE

The name of the corporation is **Nodaway Worth Services, Inc.**

ARTICLE TWO

The address of its initial registered office in the State of Missouri is Highway 136 East, P. O. Box 388, Maryville, Missouri 64468, and the name of its initial registered agent at such address is Gene Dorrel.

ARTICLE THREE

The Corporation has perpetual duration.

ARTICLE FOUR

The Corporation shall have authority to issue only one class of shares. The aggregate number, class and par value, if any, of shares which the Corporation shall have authority to issue shall be 40,000 shares of common stock at Ten Dollars (\$10.00) par value. The preferences, qualifications, limitations, restrictions and the special or relative rights, including convertible rights, if any, in respect of the shares of each class are as follows:

None.

ARTICLE FIVE

The name and place of residence of each incorporator is as follows:

Gary R. Hull	Route 2	Elmo, Missouri 64445
Jerry J. Fine	Route 2, Box 192	Bedford, Iowa 50833
David E. Nally	Route 1, Box 94	Blockton, Iowa 50836

ARTICLE SIX

The number of members of the Board of Directors to be elected at the first meeting of the shareholders is nine (9). The Corporation shall provide the method of election of directors in its Bylaws. The persons who shall constitute the first Board of Directors are:

John L. Busby	Route 1, Box 191	Parnell, Missouri 64475
Gary R. Hull	Route 2	Elmo, Missouri 64445
Jerry J. Fine	Route 2, Box 192	Bedford, Iowa 50833
David E. Nally	Route 1, Box 94	Blockton, Iowa 50836
John W. Collier	Route 1	Gentry, Missouri 64453
Edward C. Costin	Route 2, Box 22	Grant City, Missouri 64456
John F. Cottrell	Route 2, Box 31	Grant City, Missouri 64456
Clarence P. Gockel	Route 2	Stanberry, Missouri 64489
Paul A. Hansen, Jr.	Route 1, Box 80	Maryville, Missouri 64468

ARTICLE SEVEN

The purposes for which the Corporation is formed are:

1. To generate, manufacture, purchase, acquire, accumulate, transmit, distribute, furnish, sell, construct, erect, lease, operate, mortgage, any and all plants, buildings, works, machinery, supplies, apparatus, equipment and any other hard or soft ware necessary or convenient to the operation of satellite, television, radio, microwave, laser, or any other communication system, either to operate electrical facilities or for purposes of directly providing programs, programming, communications, paging, or any and all other future technologies providing the means of verbal and/or visual communications of any and all kinds and character;

2. To assist its customers by wiring, or causing to be wired, their premises or communication facilities, and by installing or causing to be installed thereon communications appliances, fixtures, machinery, supplies, apparatus and equipment of any and all kinds and character in connection therewith and for such purposes to enter into and carry out all agreements

necessary and advisable in connection therewith, and to purchase, acquire, sell, distribute, install, and repair communications appliances, machinery, supplies, apparatus and equipment of any and all kinds and character;

3. To maintain showrooms and conduct sales, both wholesale and retail;

4. To finance the sale or lease of its goods and services and to that end to take and receive promissory notes, security agreements and other contracts, to extend credit, to sell and assign such notes, security agreements and contracts to others and to do any and all other acts incidental to the aforesaid purposes and objects;

5. To do and perform all other acts and to engage in any and all other activities incidental to and associated with any of the foregoing stated purposes.

ARTICLE EIGHT

The first Bylaws for the Corporation shall be adopted at the first meeting of shareholders. Thereafter, the Bylaws may be altered, amended or repealed by the affirmative vote of not less than two-thirds of all of the Directors at any regular or special meeting provided that the notice of the special meeting shall have contained a copy of the proposed amendment or repeal.

IN WITNESS WHEREOF, we have hereunto set our hands this 27th day of

May, 1993.

Gary R. Hull
Gary R. Hull

Jerry J. Fine
Jerry J. Fine

David E. Nally
David E. Nally

STATE OF MISSOURI



Judith K. Moriarty
SECRETARY OF STATE

CORPORATION DIVISION

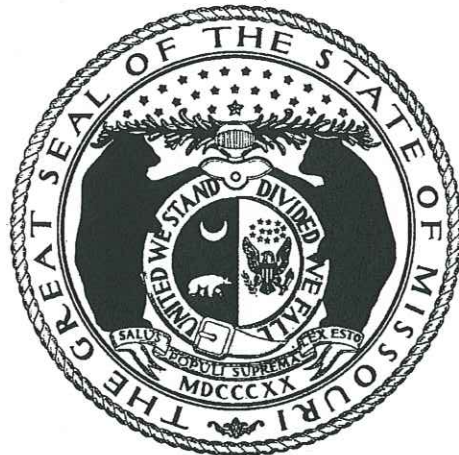
CERTIFICATE OF INCORPORATION

WHEREAS, DUPLICATE ORIGINALS OF ARTICLES OF INCORPORATION OF
NODAWAY WORTH SERVICES, INC.

HAVE BEEN RECEIVED AND FILED IN THE OFFICE OF THE SECRETARY OF
STATE, WHICH ARTICLES, IN ALL RESPECTS, COMPLY WITH THE
REQUIREMENTS OF GENERAL AND BUSINESS CORPORATION LAW;

NOW, THEREFORE, I, JUDITH K. MORIARTY, SECRETARY OF STATE OF THE
STATE OF MISSOURI, BY VIRTUE OF THE AUTHORITY VESTED IN ME BY
LAW, DO HEREBY CERTIFY AND DECLARE THIS ENTITY A BODY CORPORATE,
DULY ORGANIZED THIS DATE AND THAT IT IS ENTITLED TO ALL RIGHTS
AND PRIVILEGES GRANTED CORPORATIONS ORGANIZED UNDER THE
GENERAL AND BUSINESS CORPORATION LAW.

IN TESTIMONY WHEREOF, I HAVE SET MY
HAND AND IMPRINTED THE GREAT SEAL OF
THE STATE OF MISSOURI, ON THIS, THE
3RD DAY OF JUNE, 1993.



Judith K. Moriarty
Secretary of State

\$238.00

STATE OF MISSOURI



John R. Ashcroft
Secretary of State

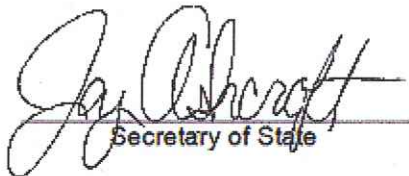
CORPORATION DIVISION
CERTIFICATE OF GOOD STANDING

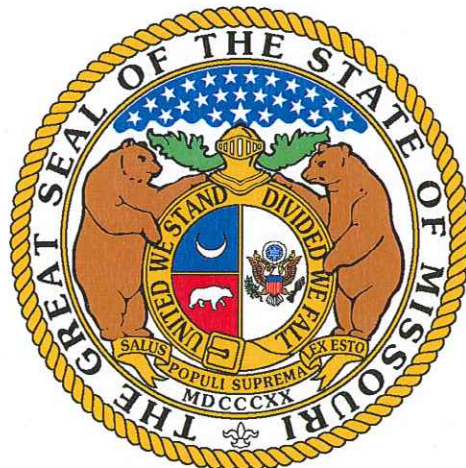
I, JOHN R. ASHCROFT, Secretary of State of the State of Missouri, do hereby certify that the records in my office and in my care and custody reveal that

UNITED SERVICES, INC.
00381699

was created under the laws of this State on the 3rd day of June, 1993, and is in good standing, having fully complied with all requirements of this office.

IN TESTIMONY WHEREOF, I hereunto set my hand and cause to be affixed the GREAT SEAL of the State of Missouri. Done at the City of Jefferson, this 19th day of November, 2018.


Secretary of State



Certification Number: CERT-11192018-0063

Exhibit 2

Facility Name: **Country Side View Subdivision Wastewater Treatment Facility**
Legal Description: NE¼, NW¼, Sec. 24, T64N, R35W, Nodaway County

Facility Name: **Dawn Valley Subdivision Wastewater Treatment Facility**
Legal Description: Sec. 2, T58N, R35W, Andrew County

Facility Name: **Highland Estates Subdivision**
Legal Description: SE¼, NW¼, Sec. 25, T64N, R36W, Nodaway County

Facility Name: **Indian Ridge Development WWTF**
Legal Description: SE¼, NW¼, Sec. 13, T58N, R35W, Andrew County

Facility Name: **Millstone Subdivision WWTF**
Legal Description: SE¼, SW¼, Sec. 12, T58N, R35W, Andrew County

Facility Name: **Pleasant View Addition Wastewater Treatment Facility**
Legal Description: Sec. 14, T64N, R35W, Nodaway County

Facility Name: **Scout Ridge Estates Wastewater Treatment Facility**
Legal Description: Sec. 8, T64N, R35W, Nodaway County

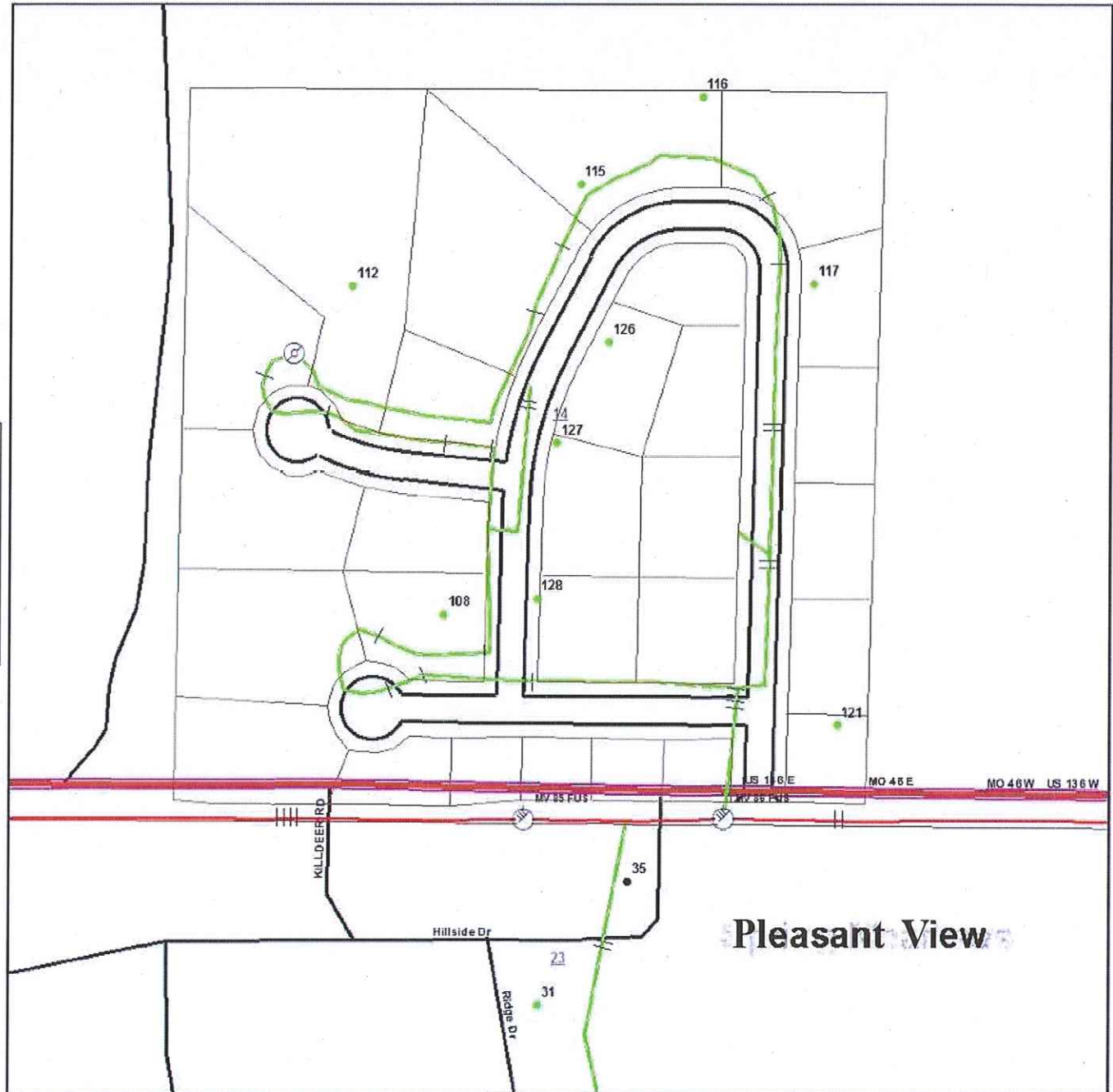
Facility Name: **Spring Meadows Subdivision Wastewater Treatment Facility**
Legal Description: Sec. 10, T59N, R35W, Andrew County

Facility Name: **Stoll Addition Wastewater Treatment Facility**
Legal Description: Sec. 21, T64N, R35W, Nodaway County

Facility Name: **Tuscany Lake / Vista Ridge Subdivision**
Legal Description: Sec. 3, T58N, R35W, Andrew County

Exhibit 3

North Circuit R 35 W South Circuit
East Circuit Joins Detail 70 West Circuit



Joins Detail 70

Joins Detail 70

T
68
N

United Electric Cooperative

Joins Detail 70

Map 17

— **North Circuit**
— **South Circuit**
— **East Circuit**
— **West Circuit**

R 35 W
Joins Detail 70



Country Side

Joins Detail 70

Joins Detail 70

T
64
N

United Electric Cooperative

Joins Detail 70

Map 70 E

— **North Circuit**
— **South Circuit**
— **East Circuit**
— **West Circuit**

R 35 W
Joins Detail 130

Joins Detail 130

Joins Detail 130

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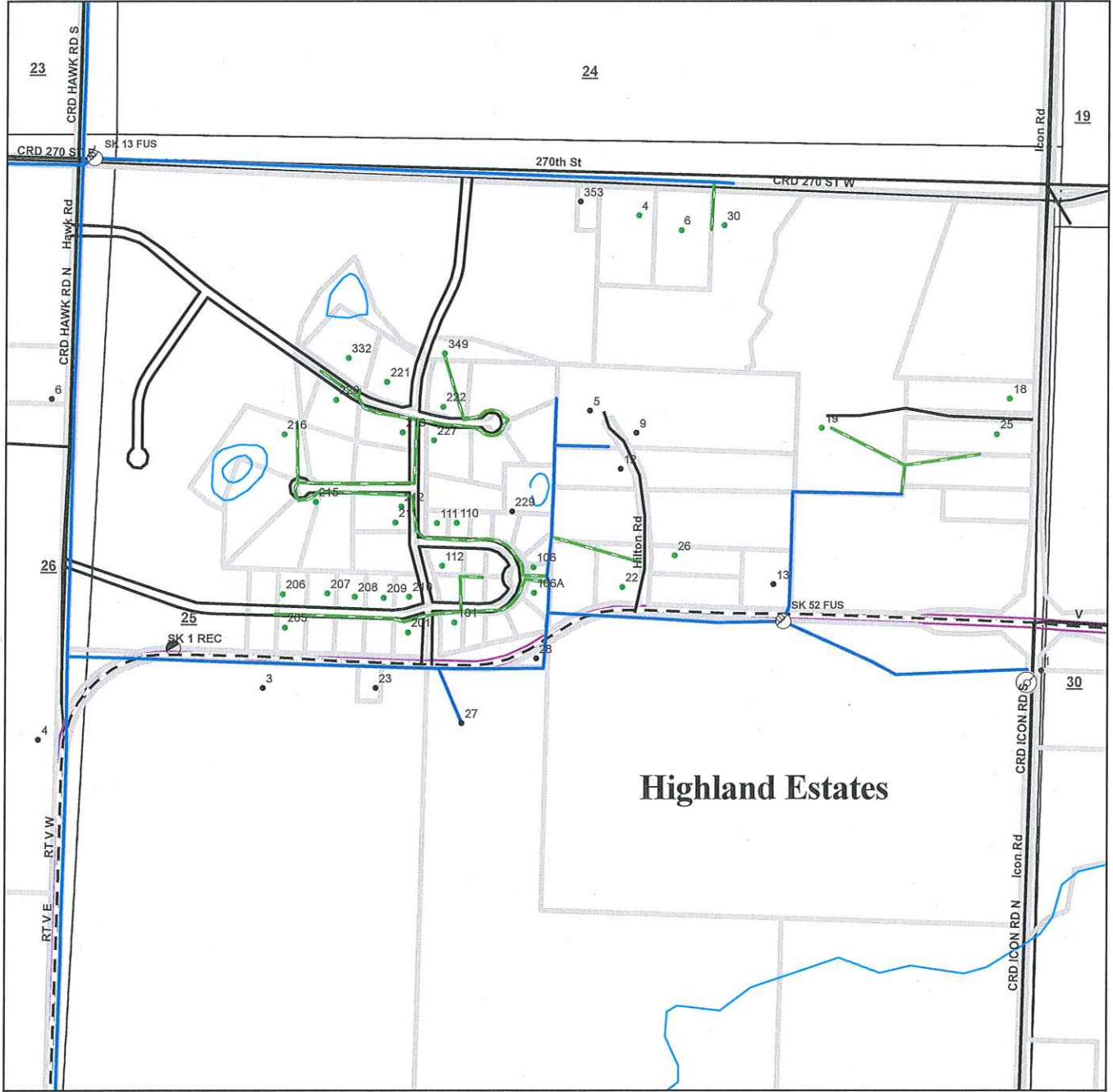


United Electric Cooperative

Joins Detail 130

Map 130 E

— North Circuit R 36 W — South Circuit
— East Circuit Joins Detail - — West Circuit



Joins Detail -

Joins Detail -

T
64
N

United Electric Cooperative

Joins Detail -

Map 69 N

— **North Circuit**
— **South Circuit**
— **East Circuit**
— **West Circuit**

R 35 W
Joins Detail 130

Joins Detail 130

Joins Detail 130

T 58 N



United Electric Cooperative

Joins Detail 130

Map 130 C

— **North Circuit**
— **South Circuit**
— **East Circuit**
— **West Circuit**

R 35 W
Joins Detail 130

Joins Detail 130

Joins Detail 130

T
58
N



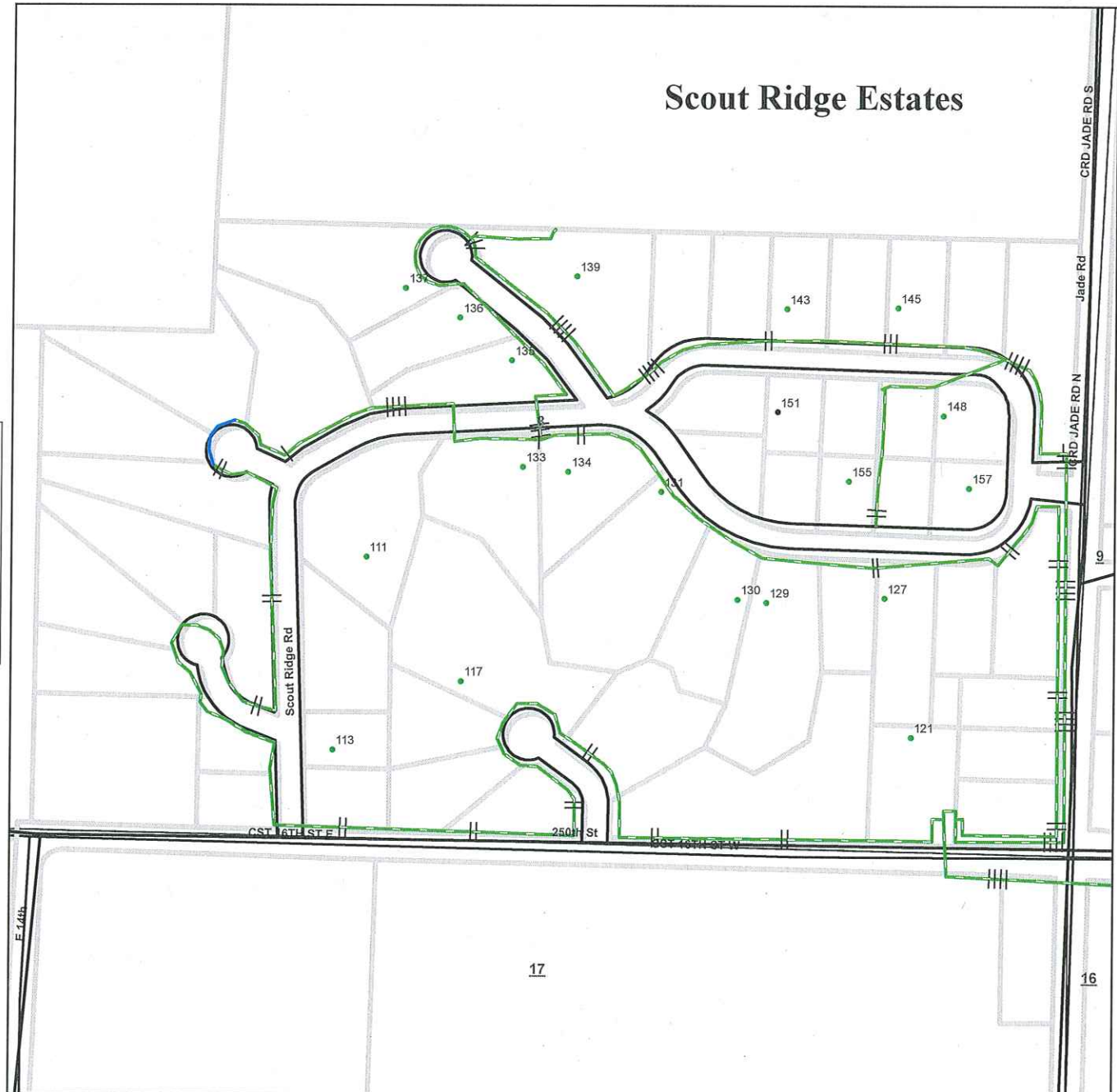
United Electric Cooperative

Joins Detail 130

Map 130 D

— **North Circuit** R 35 W — **South Circuit**
— **East Circuit** Joins Detail 70 — **West Circuit**

Scout Ridge Estates



Joins Detail 70

Joins Detail 70

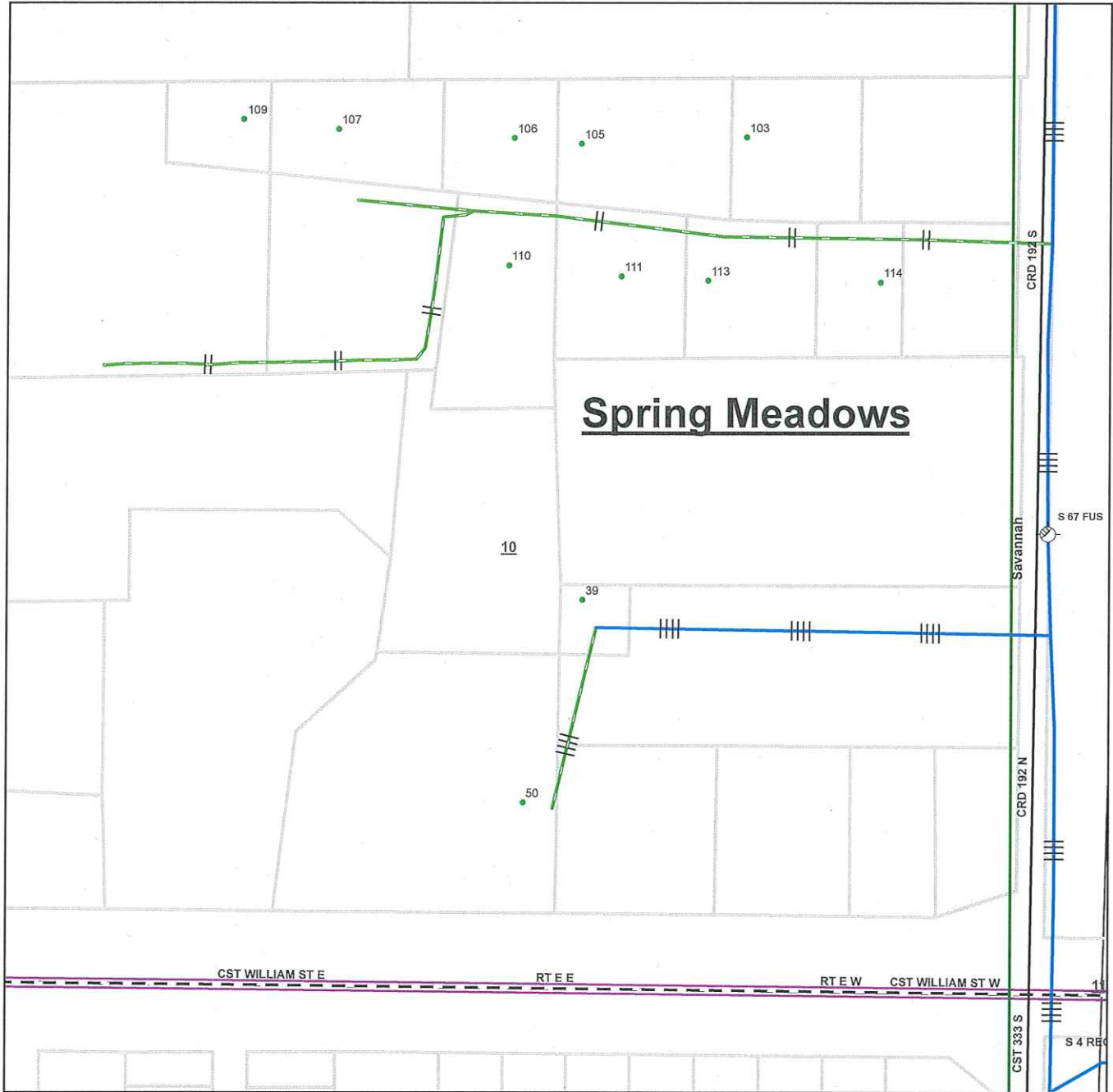
T 64 N

United Electric Cooperative

Joins Detail 70

Map 70 O

— North Circuit R 35 W — South Circuit
— East Circuit Joins Detail 123 B — West Circuit



Joins Detail 123 B

Joins Detail 123 B

T
59
N

United Electric Cooperative

Joins Detail 123 B

Map 123 H

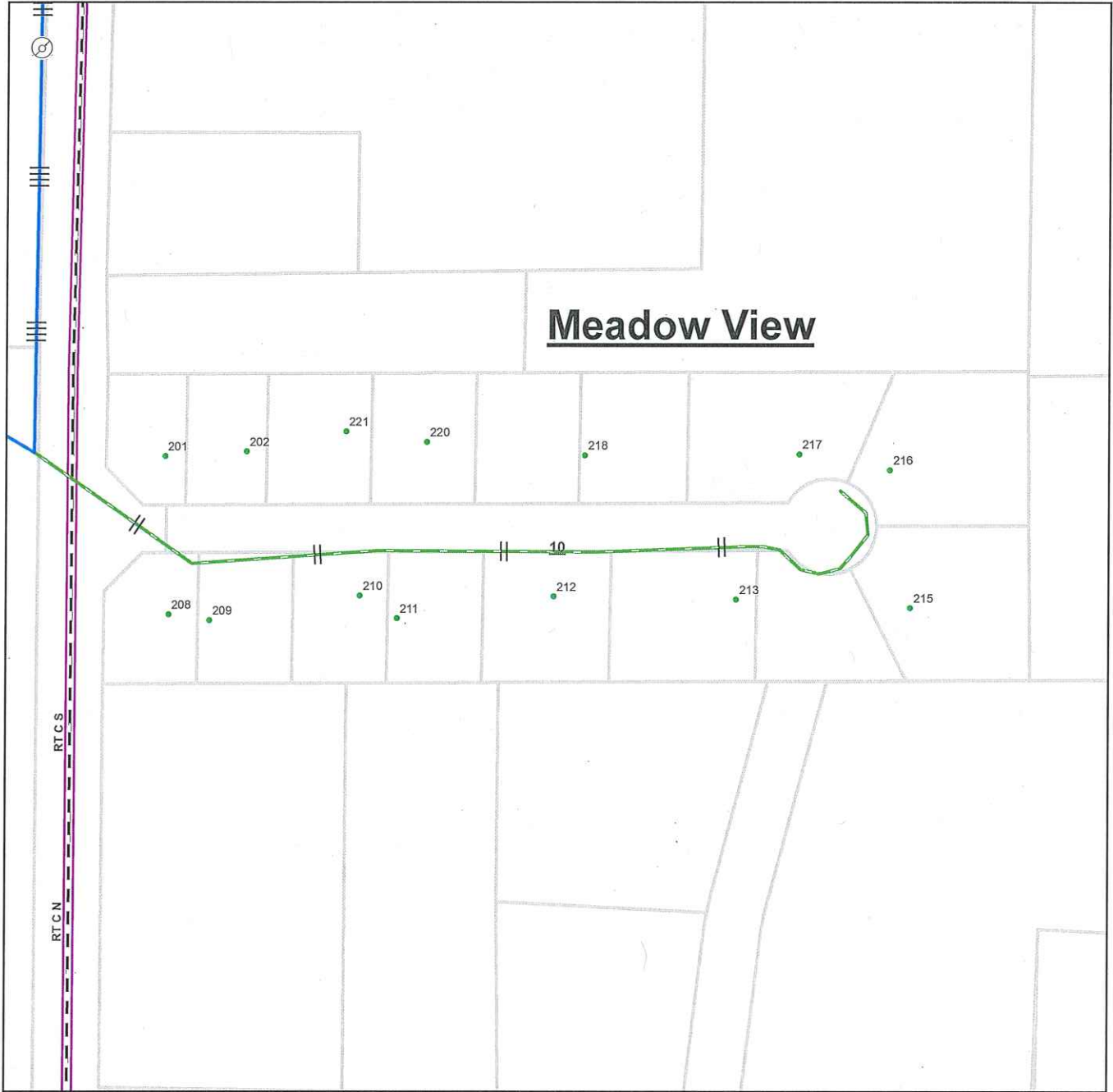
North Circuit ——— South Circuit ———
East Circuit ——— West Circuit ———

R 35 W
Joins Detail 123 B

Joins Detail 123 B

Joins Detail 123 B

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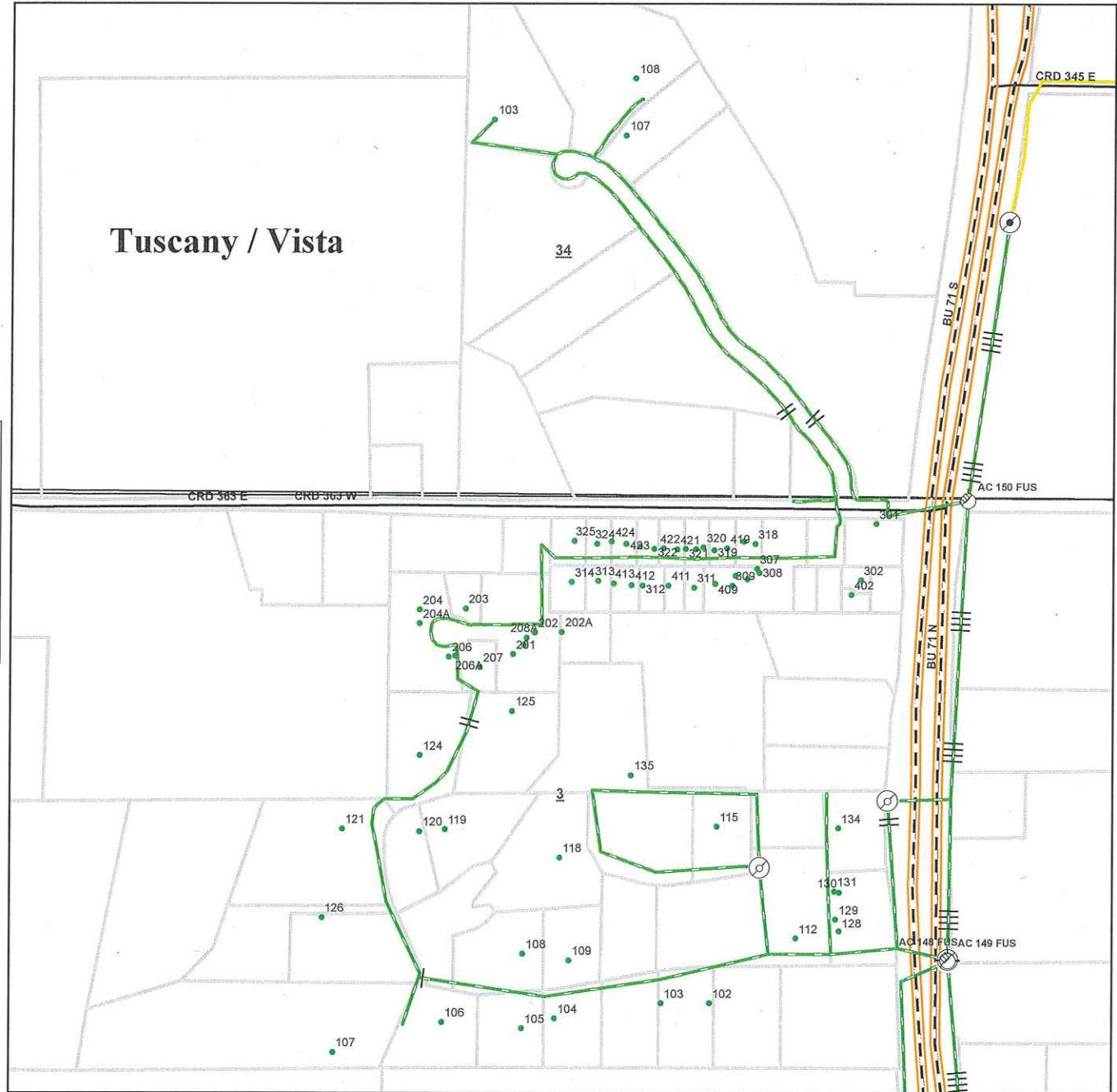
United Electric Cooperative

Joins Detail 123 B

Map 123 G

— North Circuit R 35 W — South Circuit
— East Circuit Joins Detail 130 — West Circuit

Tuscany / Vista



Joins Detail 130

Joins Detail 130

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United Electric Cooperative

Joins Detail 130

Map 130 B

Exhibit 4

UNITED SERVICES FEASIBILITY STUDY

Wastewater and Sewage Treatment Systems

Andrew County and Nodaway County Subdivision Systems

Sewer Service Provided By:

**UNITED SERVICES, INC.
30208 US HWY 136
MARYVILLE, MO 64468**

UNITED SERVICES BACKGROUND

United Services, Inc. is a subsidiary of United Electric Cooperative, Inc., a Missouri based non-profit electric cooperative. United Electric Cooperative serves nearly 10,000 electric meters and manages 3800 miles of electric utility plant in Northwest Missouri and Southwest Iowa. The service area of United Electric is extremely rural and has one of the lowest electric meter density ratios at approximately 2.4 meters per mile.

One of the primary components of the Cooperative's Mission is to promote economic development and improve the quality of life of our member owners. United Electric originally formed United Services, Inc. in 1994 to manage non-electric related projects to accomplish this mission, and the subsidiary has grown over time to include both high-speed broadband technology and sewer services.

In 2001, United was approached by a local developer and White Cloud Engineering to explore sewer treatment options for a rural subdivision in Andrew County, Missouri. White Cloud Engineering presented an option for a subdivision level sewer system, allowing the developer to overcome soil and acreage challenges for wastewater treatment. The sand/rock recirculating filter system proposed by White Cloud Engineering allowed for an economical wastewater management option while providing a sustainable, long-term treatment plan.

The project was a win-win by providing the developer an opportunity to increase lot count and provide a sustainable wastewater plan, while allowing United to improve the potential for rural housing growth. Also, United provided a stable long-term partner to ensure ongoing billing, maintenance and management of the system at a reasonable rate.

While United Services is a for-profit subsidiary, United Electric Cooperative is the sole owner of United Services. As a not-for-profit electric cooperative, United Electric does not fall under the Public Service Commission regulation and it was assumed the sewer operations were exempt as well. A recent conversation with the Commission determined the subsidiary should fall under PSC jurisdiction due to the for-profit status of United Services.

WHITE CLOUD ENGINEERING

In 2001, United Services engaged White Cloud Engineering to design, construct, and operate individual Septic Tank and Effluent Pump (STEP) units and recirculating sand filter units capable of treating wastewater based on the planned size of the subdivision. White Cloud was also contracted to provide ongoing operating and maintenance, including DNR certified testing, upkeep of the plants, maintenance of grounds on which the recirculating sand filter units are located, along with monitoring and repairing the individual STEP units. White Cloud also maintains an inventory of pumps and necessary parts to provide timely service if repairs are needed.

White Cloud Engineering had a long history of providing water and wastewater management for multiple communities throughout Northwest Missouri. With the success of the original plant, United Services and White Cloud Engineering have partnered to duplicate this model and now serve 10 subdivisions with wastewater treatment services.

DESCRIPTION OF WASTEWATER TREATMENT FACILITIES

The collection system is designed so each lot has a STEP unit consisting of a 1,500-gallon tank and effluent pump. The pump is typically a ½ HP, 115 VAC, single-phase motor capable of providing a flow rate of 5 gallons per minute at 160 ft (TDH). Each unit is connected back to the Recirculating Sand Filter (RSF) through the installation of SDR-21, PVC pressure complete with the necessary appurtenances as required to make the system complete

The Recirculating Sand Filter treatment facility includes a large tank and pea gravel filter. The units are sized based on a design population equivalent and corresponding designed flow rate. Based upon this treatment process and required DNR testing, the discharge is allowed to be output into reported tributaries or creeks.

The attachments to this application provide the maps, specifications, contracts, construction permits and operating permits for each subdivision as shown on the summary document below. Some of the plants provide disinfection, dependent on MDNR permitted limits and process efficiency. The summary also shows the original cost of the treatment facilities and force main, along with plant expansions performed to date.

United Services, Inc. - Summary of Plant Information

Operator: White Cloud Engineering, Randy Fish, DNR Wastewater "C" license #12458

	Countryside	Dawn Valley	Highlands	Indian Ridge	Millstone	Pleasant View	*Spring Meadows	Scout Ridge	Stoll	**Tuscany
Lot information	x	x	x	x	x	x	x	x	x	x
Map	x	x	x	x	x	x	x	x	x	x
Plans & specs	x	x	x	x	x	x	x	x	x	x
Contracts	x	x	x	x	x	x	x	x	x	x
Operating permit	x	x	x	x	x	x	x	x	x	x
Construction permit	x	x	x	x	x	x	x	x	x	x
Plant & Force Main	\$74,250	\$98,000	\$84,748	\$81,800	\$123,590	\$83,385	\$84,000	\$81,800	\$68,200	\$150,177
Plant expansions								\$52,000		\$55,000
Total Plant & Force Main	\$74,250	\$98,000	\$84,748	\$81,800	\$123,590	\$83,385	\$84,000	\$133,800	\$68,200	\$205,177

*1 System: Spring Meadows/Meadow View Subdivision

**1 System: Tuscany, Vista, West Ridge, Bristol Subdivision

CONNECTION AND MONTHLY RATES

The developers of each subdivision were responsible for paying the cost of the original treatment plant and force main. Each lot owner is responsible to pay a connect fee and per foot rate when the STEP unit is installed. Upon completion and payment of the corresponding treatment plant or STEP unit, United Services assumes ownership of the asset and is responsible for the ongoing operation and maintenance of the wastewater treatment plant. Each home owner (active STEP unit) pays a monthly fee to United to cover the operating and maintenance of the plant. The original STEP installation and connection fee, along with the corresponding monthly rate are shown by subdivision on the chart below.

SUBDIVISION NAME	CONNECT FEE STEP Tank	FOOTAGE FEE Over 50' to Home	MONTHLY RATE By Subdivision
Countryside	\$5,500.00	\$4.00	\$42.84
Dawn Valley	\$5,500.00	\$4.00	\$35.44
Highlands	\$5,500.00	\$4.00	\$35.44
Indian Ridge	\$5,500.00	\$4.00	\$35.44
Millstone	\$5,500.00	\$4.00	\$35.44
Pleasant View	\$5,500.00	\$4.00	\$35.44
Scout Ridge	\$5,500.00	\$4.00	\$35.44
Spring Meadows	\$5,500.00	\$4.00	\$35.44
Stoll	\$5,500.00	\$4.00	\$42.84
Tuscany (Vista, West, Bristol)	\$5,500.00	\$4.00	\$35.44

SUBDIVISION LOT AND CUSTOMER INFORMATION

A map of each subdivision is attached to the application. The chart below shows each subdivision, total available lots, and current active customer counts. We expect to add about 15 customers per year over the next 3 years.

UNITED SEWER SUBDIVISION REPORT

Date: 10/1/18

Subdivision Name	Total lots	Installed	Active Billing	Available Lots	Notes
Countryside View	19	19	19	0	19 houses
Dawn Valley	30	34	33	0	6 duplexes, 22 houses.
Highlands	46	23	23	22	1 duplex, 23 houses
Indian Ridge	112	70	70	41	*note: 1 owners bought 2 lots for their home.
Meadow View/Spring Meadows	30	22	22	5	*note: 3 owners bought 2 lots for their homes.
Millstone	34	18	18	16	18 houses
Pleasant View	28	9	8	18	*note: 2 owners split 1 lot.
Scout Ridge	57	19	19	36	*note: 2 owners bought 2 lots for their homes.
Stoll	26	1	1	25	1 small business
Tuscany	35	21	20	12	*note 1 owner has 3 lots.
Vista	26	31	30	8	14 lots have duplexes. 1 duplex straddles 2 lots.
West Ridge	9	14	14	1	6 lots have duplexes.
Bristol	14	3	3	11	All single family homes
TOTAL	466	284	280	195	

REVENUE AND EXPENSES

The report below shows the revenue and expenses over the last three years, and projections for revenue and expenses over the next three years. Sewer Developer Income, as shown below the Operating Income line, is non-cash income resulting from the acquisition of each STEP tank from the property owner as new services are installed.

SEWER REVENUE AND EXPENSE REPORT

Description	2016	2017	2018	2019	2020	2021
SEWER INCOME	\$ 89,119.71	\$ 99,403.29	\$ 119,131.09	\$ 120,322.40	\$ 124,709.90	\$ 132,809.90
SEWER DEVELOPER INTEREST INCOME	\$ 8,895.98	\$ 8,583.17	\$ 8,254.36	\$ 8,282.39	\$ 8,282.39	\$ 8,282.39
	\$ 98,015.69	\$ 107,986.46	\$ 127,385.45	\$ 128,604.79	\$ 132,992.29	\$ 141,092.29
SEWER-COST-WHITE CLOUD/DNR PERMITS FEES	\$ 46,924.80	\$ 47,645.75	\$ 56,359.00	\$ 59,520.00	\$ 72,693.27	\$ 85,410.58
SEWER EXPENSES	\$ 3,000.00	\$ 19,498.83	\$ 6,781.70	\$ 10,000.00	\$ 12,103.39	\$ 14,369.93
DEPRECIATION EXPENSE - SEWER PLANT	\$ 82,567.12	\$ 96,960.32	\$ 63,140.70	\$ 82,567.12	\$ 119,522.38	\$ 144,067.83
	\$ 132,491.92	\$ 164,104.90	\$ 126,281.40	\$ 152,087.12	\$ 204,319.04	\$ 243,848.34
Operating Net Income	\$ (34,476.23)	\$ (56,118.44)	\$ 1,104.05	\$ (23,482.33)	\$ (71,326.75)	\$ (102,756.05)
SEWER DEVELOPER INCOME (STEP TANKS)	\$ 442,300.00	\$ 138,940.00	\$ 257,820.00	\$ 236,520.00	\$ 236,520.00	\$ 236,520.00
Net Income	\$ 407,823.77	\$ 82,821.56	\$ 258,924.05	\$ 213,037.67	\$ 165,193.25	\$ 133,763.95

CONCLUSION

United Services and our contractor, White Cloud Engineering, have provided a high-quality and sustainable option for subdivision wastewater treatment for years. This service has enabled developers to create new opportunities for rural housing and allowed customers a safe and effective option for handling their sewer needs. As a subsidiary of United Electric Cooperative, we provide a stable continuing authority with the financial resources to maintain these systems into the future and meet our mission of improving the quality-of-life of our members.

Exhibit 5

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

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

Permit No. MO-0130826

Owner: United Services, Inc.
Address: 30208 Hwy 136 E, Maryville MO, 64468

Continuing Authority: Same as above
Address: Same as above

Facility Name: Country Side View Subdivision Wastewater Treatment Facility
Facility Address: Highway 136E, Maryville MO, 64468

Legal Description: NE ¼, NW ¼, Sec. 24, T64N, R35W, Nodaway County
UTM Coordinates: X=347867, Y=4467468

Receiving Stream: Tributary to Mozingo Creek
First Classified Stream and ID: Mozingo Creek (C) (0343)
USGS Basin & Sub-watershed No.: (10240013-0303)

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

FACILITY DESCRIPTION

Outfall #001 – Residential Subdivision– SIC #4952
Septic Tanks/Recirculating sand filter/Chlorination/Dechlorination/Sludge disposal by contract hauler.
Design population equivalent is 67.
Design flow is 6,600 gallons per day.
Actual flow is 3,355 gallons per day.
Design sludge production is 1.0 dry tons/year.

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

September 1, 2016
Effective Date


Sara Parker Pauley, Director, Department of Natural Resources

June 30, 2018
Expiration Date


John Madros, Director, Water Protection Program

OUTFALL #001	TABLE A FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS	PAGE NUMBER 2 of 5
		PERMIT NUMBER MO-0130826

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on **September 1, 2016** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	MGD	*		*	once/quarter***	24 hr. Estimate
Biochemical Oxygen Demand ₅	mg/L		45	30	once/quarter***	grab
Total Suspended Solids	mg/L		45	30	once/quarter***	grab
<i>E. coli</i> (Note 1, Page 3)	#/100mL	1030		206	once/quarter***	grab
Ammonia as N (Apr 1 – Sep 30) (Oct 1 – Mar 31)	mg/L	3.7 7.5		1.4 2.8	once/quarter***	grab
Total Residual Chlorine (Note 2, Page 3)	µg/L	< 130		< 130	once/quarter***	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE JANUARY 28, 2017. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

EFFLUENT PARAMETER(S)	UNITS	MINIMUM	MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH – Units **	SU	6.5	9.0	once/quarter***	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE JANUARY 28, 2017.

EFFLUENT PARAMETER(S)	UNITS	DAILY MINIMUM	MONTHLY AVERAGE MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Dissolved Oxygen	mg/L	*	*	once/quarter***	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE JANUARY 28, 2017.

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged.
- *** See table below for quarterly sampling.

Quarter	Months	<i>E. coli</i> , Total Residual Chlorine (TRC), and Dissolved Oxygen	All Other Parameters	Report is Due
First	January, February, March	Not required to sample.	Sample at least once during any month of the quarter	April 28 th
Second	April, May, June	Sample at least once during any month of the quarter	Sample at least once during any month of the quarter	July 28 th
Third	July, August, September	Sample at least once during any month of the quarter	Sample at least once during any month of the quarter	October 28 th
Fourth	October, November, December	Sample once during October; no sample required in either November or December	Sample at least once during any month of the quarter	January 28 th

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

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

Permit No. MO-0135810
Owner: United Services, Inc
Address: P.O. Box 319, Savannah, MO 64485
Continuing Authority: Same as above
Address: Same as above
Facility Name: Dawn Valley Subdivision Wastewater Treatment Facility
Facility Address: Valley Drive North at the end of the road, Savannah, MO 64485
Legal Description: Sec. 2, T58N, R35W, Andrew County
UTM Coordinates: X = 345776, Y = 4414962
Receiving Stream: Tributary to One Hundred and Two River
First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.: (10240013-0406)

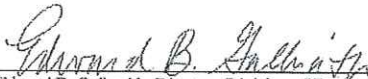
is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

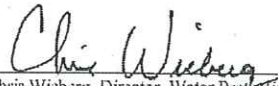
Outfall #001 – Non-POTW – Residential Subdivision – SIC #8641
Septic Tank Effluent Pump (STEP System)/recirculating sand filter/chlorination/dechlorination/sludge disposal by contract hauler
Design population equivalent is 101.
Design flow is 10,080 gallons per day.
Actual flow is 1,950 gallons per day.
Design sludge production is 0.6 dry tons/year.

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

April 1, 2018
Effective Date


Edward B. Galbraith, Director, Division of Environmental Quality

March 31, 2023
Expiration Date


Chris Wieberg, Director, Water Protection Program

EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	MGD	*		*	once/quarter***	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		45	30	once/quarter***	grab
Total Suspended Solids	mg/L		45	30	once/quarter***	grab
<i>E. coli</i> (Note 1)	#/100mL	1,030		206	once/quarter***	grab
Ammonia as N (Apr 1 – Sep 30) (Oct 1 – Mar 31)	mg/L	3.6 7.5		1.4 2.9	once/quarter***	grab
Total Residual Chlorine (Note 2)	µg/L	< 130		< 130	once/quarter***	grab
EFFLUENT PARAMETER(S)	UNITS	MINIMUM		MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH – Units**	SU	6.5		9.0	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2018</u> .						
EFFLUENT PARAMETER(S)	UNITS	DAILY MINIMUM		MONTHLY AVERAGE MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Dissolved Oxygen	mg/L	*		*	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2018</u> .						

* Monitoring requirement only.
 ** pH is measured in pH units and is not to be averaged.
 *** See table on Page 3 for quarterly sampling.

Note 1 - Effluent limitations and monitoring requirements for *E. coli* are applicable only during the recreational season from April 1 through October 31. The Monthly Average Limit for *E. coli* is expressed as a geometric mean.

Note 2 - This permit contains a Total Residual Chlorine (TRC) limit.

- (a) The Water Quality Based Effluent Limit for Total Residual Chlorine was calculated to be 17 µg/L (daily maximum limit) and 8 µg/L (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The Department has determined the current acceptable ML for total residual chlorine to be 130 µg/L when using the DPD Colorimetric Method #4500 – CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit. Measured values greater than or equal to the minimum quantification level of 130 µg/L will be considered violations of the permit and values less than the minimum quantification level of 130 µg/L will be considered to be in compliance with the permit limitation.
- (b) Disinfection is required during the recreational season from April 1 through October 31. Do not chlorinate during the non-recreational months and an actual analysis for TRC and Dissolved Oxygen (DO) is not necessary.
- (c) Do not chemically de-chlorinate if it is not needed to meet the limits in your permit.
- (d) If no chlorine was used in a given sampling period, an actual analysis for TRC and Dissolved Oxygen (DO) is not necessary. Simply report as “0 µg/L” for TRC and “NA” for DO.

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



Received draft

MISSOURI STATE OPERATING PERMIT

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

Permit No. MO-0128082

Owner: United Services
Address: P.O. Box 757, Maryville, MO 64468

Continuing Authority: same as above
Address: same as above

Facility Name: Highland Estates Subdivision
Facility Address: West State Route V, Maryville, MO 64468

Legal Description: SE¼, NW¼, Sec. 25, T64N, R36W, Nodaway County
UTM Coordinates: X = 338270, Y = 4465742

Receiving Stream: Tributary to Peach Creek (U)
First Classified Stream and ID: White Cloud Creek (C) (00346)
USGS Basin & Sub-watershed No.: (102400130401)

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

FACILITY DESCRIPTION

Outfall #001 - NON-POTW - SIC # 4952
Recirculating sand filter/sludge is land applied
Design population equivalent is 120 PE.
Design flow is 12,000 gallons per day.
Actual flow is 3,500 gallons per day.
Design sludge production is 1.8 dry tons/year.

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

October 1, 2014
Effective Date

December 31, 2017
Expiration Date

Sara Parker Pauley
Sara Parker Pauley, Director, Department of Natural Resources

John Madras
John Madras, Director, Water Protection Program

EFFLUENT PARAMETER(S)	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	MGD	*		*	once/quarter***	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		45	30	once/quarter***	grab
Total Suspended Solids	mg/L		45	30	once/quarter***	grab
Ammonia as N	mg/L	*		*	once/quarter***	grab
pH – Units	SU	**		**	once/quarter***	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE JANUARY 28, 2015. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged. The pH is limited to the range of ~~6.5-9.0~~ 6.5-9.0 pH units.
- *** Quarterly sampling is required and samples shall be collected and tested for the parameters listed in Table A-1 if a discharge occurs during the reporting period. If the facility serves a part-time or seasonal establishment/residence(s), then sampling shall occur while the treatment facility is operating and after a discharge begins. See table on Page 4 for quarterly sampling schedule.

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



9-21
no draft yet

MISSOURI STATE OPERATING PERMIT

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

Permit No. MO-0134406

Owner: United Servies, Inc.
Address: P.O. Box 757, Maryville, MO 64468

Continuing Authority: same as above
Address: same as above

Facility Name: Indian Ridge Development WWTF
Facility Address: Intersection of Highway 169th North & CR 351, St. Joseph, MO 64506

Legal Description: SW¼, NW¼, Sec. 13, T58N, R35W, Andrew County
UTM Coordinates: X = 347346, Y= 4411954

Receiving Stream: Unnamed Tributary to One Hundred and Two River (U)
First Classified Stream and ID: One Hundred and Two River (P) (00342)
USGS Basin & Sub-watershed No.: (102400130406)

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

FACILITY DESCRIPTION

Outfall #001 - NON-POTW - SIC # 4952.
Septic tank system/Recirculating sand filter/Sludge disposal by contract hauler.
Design population equivalent is 414 PE.
Design flow is 41,440 gallons per day.
Actual flow is 3,100 gallons per day.
Design sludge production is 2.9 dry tons/year.

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

September 1, 2014
Effective Date

Sara Parker Pauley, Director, Department of Natural Resources

March 31, 2018
Expiration Date

John Madras, Director, Water Protection Program

OUTFALL #001	TABLE A-1. INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					
	The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective on <u>September 1, 2014</u> , and remain in effect through <u>August 31, 2016</u> . Such discharges shall be controlled, limited and monitored by the permittee as specified below:					
EFFLUENT PARAMETER(S)	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	MGD	*		*	once/quarter***	24 hr. total
Biochemical Oxygen Demand ₅	mg/L		45	30	once/quarter***	grab
Total Suspended Solids	mg/L		45	30	once/quarter***	grab
pH – Units	SU	**		**	once/quarter***	grab
Ammonia as N (April 1 – Sept 30) (Oct 1 – March 31)	mg/L	3.6 7.5		1.4 2.9	once/quarter***	grab
<i>E. coli</i> ¹	#/100 ml	*		*	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE <u>JANUARY 28, 2015</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

* Monitoring requirement only.

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

*** Quarterly sampling is required and samples shall be collected and tested for the parameters listed in Table A-1 if a discharge occurs during the reporting period. If the facility serves a part-time or seasonal establishment/residence(s), then sampling shall occur while the treatment facility is operating and after a discharge begins. See table on Page 4 for quarterly sampling schedule.

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



Draft has been revised.

MISSOURI STATE OPERATING PERMIT

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

Permit No. MO-0134392
Owner: United Services
Address: P.O. Box 757, Maryville, MO 64468
Continuing Authority: same as above
Address: same as above
Facility Name: Millstone Subdivision WWTF
Facility Address: HWY 169 North, St. Joseph, MO 64505
Legal Description: SE¼, SW¼, Sec. 12, T58N, R35W, Andrew County
UTM Coordinates: X = 347795, Y = 4412892
Receiving Stream: Unnamed Tributary to One Hundred and Two (U)
First Classified Stream and ID: One Hundred and Two (P) (342)
USGS Basin & Sub-watershed No.: (10240013-0406)

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

FACILITY DESCRIPTION

Outfall #001 – SIC # 8641
Septic Tank System with Recirculating Sand Filter/Chlorination/Dechlorination/ Sludge Disposal by Contract Hauler
Design population equivalent is 167 PE.
Design flow is 16,650 gallons per day.
Actual flow is 1,050 gallons per day.
Design sludge production is 1.2 dry tons/year.

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

January 1, 2015
Effective Date

Sara Parker Pauley, Director, Department of Natural Resources

March 31, 2018
Expiration Date

John Madras, Director, Water Protection Program

OUTFALL #001	TABLE A-1. FINAL EFFLUENT LIMITATIONS and MONITORING REQUIREMENTS for RIVERS and STREAMS 10 CSR 20-7.015(2) and [10 CSR 20-7.015(8)]					
	The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on January 1, 2015 , and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:					
EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	MGD	*		*	once/quarter***	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		45	30	once/quarter***	grab
Total Suspended Solids	mg/L		45	30	once/quarter***	grab
pH – Units	SU	***		***	once/quarter***	grab
Ammonia as N (April 1 – Sept 30) (Oct 1 – March 31)	mg/L	3.6 7.5		1.4 2.9	once/quarter***	grab
<i>E. coli</i> ¹	#/100 ml	1030		206	once/quarter***	grab
Total Residual Chlorine ²	µg/L	17 (130ML)		8 (130ML)	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE APRIL 28, 2015. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
EFFLUENT PARAMETER(S)	UNITS	DAILY MINIMUM	WEEKLY AVERAGE MINIMUM	MONTHLY AVERAGE MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Dissolved Oxygen ²	mg/L	*		*	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE APRIL 28, 2015.						

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- *** Quarterly sampling is required and samples shall be collected and tested for the parameters listed in Table A-1 if a discharge occurs during the reporting period. If the facility serves a part-time or seasonal establishment/residence(s), then sampling shall occur while the treatment facility is operating and after a discharge begins. See table on Page 3 for quarterly sampling schedule.

¹ Effluent limitations and monitoring requirements for *E. coli* are applicable only during the recreational season from April 1 through October 31. The Monthly Average Limit for *E. coli* is expressed as a geometric mean.

² Effluent limitations and monitoring requirements for Total Residual Chlorine (TRC) and Dissolved Oxygen (DO) only apply to facilities using the chlorine method of disinfection.

- This effluent limit is below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The department has determined the current acceptable ML for total residual chlorine to be 130 µg/L when using the DPD Colorimetric Method #4500 – CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 130 µg/L will be considered violations of the permit and values less than the minimum quantification level of 130 µg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit.
- Do not chemically de-chlorinate if it is not needed to meet the limits in your permit.
- If no chlorine was used in a given sampling period, an actual analysis is not necessary. Simply report as “0 µg/L” TRC.
- DO monitoring requirements only apply during months that the facility is chlorinating.

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



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MISSOURI STATE OPERATING PERMIT

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

Permit No. MO-0131393
Owner: United Services, Inc.
Address: P.O. Box 757, Maryville, MO 64468
Continuing Authority: Same as above
Address: Same as above
Facility Name: Pleasant View Addition Wastewater Treatment Facility
Facility Address: US Hwy 136 and Pleasant View Drive intersection, Maryville, MO 64468
Legal Description: Sec. 14, T64N, R35W, Nodaway County
UTM Coordinates: X= 346857, Y= 4467618
Receiving Stream: Tributary to One Hundred and Two River
First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.: (10240013-0304)

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

FACILITY DESCRIPTION

Outfall #001 – NON-POTW – SIC #8641
Septic tanks / recirculating sand filter /sludge disposal by contract hauler
Design population equivalent is 104.
Design flow is 10,300 gallons per day.
Actual flow is 1,700 gallons per day.
Design sludge production is 0.721 dry tons/year.

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

November 1, 2017
Effective Date

Edward B. Galbraith
Edward B. Galbraith, Director, Division of Environmental Quality

September 30, 2022
Expiration Date

Chris Wieberg
Chris Wieberg, Director, Water Protection Program

OUTFALL #001	TABLE A-1. INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS				PAGE NUMBER 2 of 5	
	PERMIT NUMBER MO-0131393					
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective on November 1, 2017 and remain in effect through October 31, 2019 . Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
EFFLUENT PARAMETER(S)	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	MGD	*		*	once/quarter***	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		45	30	once/quarter***	grab
Total Suspended Solids	mg/L		45	30	once/quarter***	grab
<i>E. coli</i> (Note 1)	#/100mL	*		*	once/quarter***	grab
Ammonia as N (Apr 1 – Sep 30) (Oct 1 – Mar 31)	mg/L	3.6 7.5		1.4 2.9	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE JANUARY 28, 2018 . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
EFFLUENT PARAMETER(S)	UNITS	MINIMUM		MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH – Units **	SU	6.5		9.0	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JANUARY 28, 2018</u> .						

* Monitoring requirement only.

** pH is measured in pH units and is not to be averaged.

*** See table below for quarterly sampling.

Note 1 - Effluent limitations and monitoring requirements for *E. coli* are applicable only during the recreational season from April 1 through October 31. The Monthly Average Limit for *E. coli* is expressed as a geometric mean.

Quarterly Minimum Sampling Requirements				
Quarter	Months	<i>E. coli</i>	All Other Parameters	Report is Due
First	January, February, March	Not required to sample.	Sample at least once during any month of the quarter	April 28 th
Second	April, May, June	Sample at least once during any month of the quarter	Sample at least once during any month of the quarter	July 28 th
Third	July, August, September	Sample at least once during any month of the quarter	Sample at least once during any month of the quarter	October 28 th
Fourth	October	Sample once during October	Sample at least once during any month of the quarter	January 28 th
	November & December	Not required to sample.		

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



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MISSOURI STATE OPERATING PERMIT

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

Permit No. MO-0127981
Owner: United Services, Inc.
Address: P.O. Box 757, Maryville, MO 64468
Continuing Authority: Same as above
Address: Same as above
Facility Name: **Scout Ridge Estates Wastewater Treatment Facility**
Facility Address: Jade Road and 250th Street intersection, Maryville, MO 64468
Legal Description: Sec. 8, T64N, R35W, Nodaway County
UTM Coordinates: X= 342490, Y= 4469368
Receiving Stream: Tributary to One Hundred and Two River (C)
First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.: (10240013-0304)

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

FACILITY DESCRIPTION

Outfall #001 – NON-POTW – Private Households – SIC #8811
Septic tank / recirculating sand filter / chlorination / dechlorination / sludge disposal by contract hauler.
Design population equivalent is 108.
Design flow is 10,800 gallons per day.
Actual flow is 2,400 gallons per day.
Design sludge production is 1.62 dry tons/year.

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

August 1, 2018
Effective Date

Edward B. Galbraith
Edward B. Galbraith, Director, Division of Environmental Quality

September 30, 2022
Expiration Date

Chris Wieberg
Chris Wieberg, Director, Water Protection Program

OUTFALL #001	TABLE A. FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					
	The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on <u>August 1, 2018</u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:					
EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	MGD	*		*	once/quarter***	24 hr. estimate
Biochemical Oxygen Demands	mg/L		45	30	once/quarter***	grab
Total Suspended Solids	mg/L		45	30	once/quarter***	grab
<i>E. coli</i> (Note 1, Page 3)	#/100mL	1,030		206	once/quarter***	grab
Ammonia as N (Apr 1 – Sep 30) (Oct 1 – Mar 31)	mg/L	5.2 12.1		1.3 2.4	once/quarter***	grab
Total Residual Chlorine (Note 2, Page 3)	µg/L	< 130		< 130	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>OCTOBER 28, 2018</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
EFFLUENT PARAMETER(S)	UNITS	MINIMUM		MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH – Units**	SU	6.5		9.0	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>OCTOBER 28, 2018</u> .						

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged.
- *** See table below for quarterly sampling.

Quarterly Minimum Sampling Requirements				
Quarter	Months	<i>E. coli</i> and Total Residual Chlorine (TRC)	All Other Parameters	Report is Due
First	January, February, March	Not required to sample.	Sample at least once during any month of the quarter	April 28 th
Second	April, May, June	Sample at least once during any month of the quarter	Sample at least once during any month of the quarter	July 28 th
Third	July, August, September	Sample at least once during any month of the quarter	Sample at least once during any month of the quarter	October 28 th
Fourth	October	Sample once during <u>October</u>	Sample at least once during any month of the quarter	January 28 th
	November & December	Not required to sample.		

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

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

Permit No. MO-0134295
Owner: United Services, Inc.
Address: P.O. Box 757, Maryville, MO 64468
Continuing Authority: Same as above
Address: Same as above
Facility Name: Spring Meadows Subdivision Wastewater Treatment Facility
Facility Address: Terminus of Hurley Drive, Savannah, MO 64485
Legal Description: Sec.10, T59N, R35W, Andrew County
UTM Coordinates: X= 345526, Y= 4423533
Receiving Stream: Tributary to One Hundred and Two River
First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.: (10240013-0405)

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

FACILITY DESCRIPTION

Outfall #001 – Non-POTW - Residential Subdivision – SIC #8641

Recirculating sand filter / chlorination / dechlorination / sludge retained in septic tanks and pumped by contract hauler.

Design population equivalent is 96.

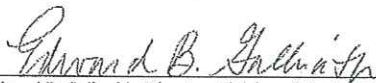
Design flow is 9,620 gallons per day.

Actual flow is 2,600 gallons per day.

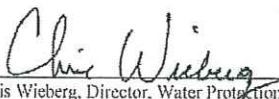
Design sludge production is 0.67 dry tons/year.

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

October 1, 2018
Effective Date


Edward B. Galbraith, Director, Division of Environmental Quality

December 31, 2022
Expiration Date


Chris Wieberg, Director, Water Protection Program

OUTFALL #001	TABLE A. FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS
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The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on **October 1, 2018** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	MGD	*		*	once/quarter***	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		45	30	once/quarter***	grab
Total Suspended Solids	mg/L		45	30	once/quarter***	grab
<i>E. coli</i> (Note 1, Page 3)	#/100mL	1,030		206	once/quarter***	grab
Ammonia as N (Apr 1 – Sep 30) (Oct 1 – Mar 31)	mg/L	5.8 10.3		1.2 2.7	once/quarter***	grab
Total Residual Chlorine (Note 2, Page 3)	µg/L	< 130		< 130	once/quarter***	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE JANUARY 28, 2019. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

EFFLUENT PARAMETER(S)	UNITS	MINIMUM		MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH – Units**	SU	6.5		9.0	once/quarter***	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE JANUARY 28, 2019.

EFFLUENT PARAMETER(S)	UNITS	DAILY MINIMUM		MONTHLY AVERAGE MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Dissolved Oxygen	mg/L	*		*	once/quarter***	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE JANUARY 28, 2019.

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged.
- *** See table below for quarterly sampling.

Quarterly Minimum Sampling Requirements				
Quarter	Months	<i>E. coli</i> , Total Residual Chlorine (TRC), and Dissolved Oxygen	All Other Parameters	Report is Due
First	January, February, March	Not required to sample.	Sample at least once during any month of the quarter	April 28 th
Second	April, May, June	Sample at least once during any month of the quarter	Sample at least once during any month of the quarter	July 28 th
Third	July, August, September	Sample at least once during any month of the quarter	Sample at least once during any month of the quarter	October 28 th
Fourth	October	Sample once during <u>October</u>	Sample at least once during any month of the quarter	January 28 th
	November & December	Not required to sample.		

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

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

Permit No. MO-0133876
Owner: United Services, Inc.
Address: P.O. Box 757, Maryville, MO 64468
Continuing Authority: Same as above
Address: Same as above
Facility Name: Stoll Addition Wastewater Treatment Facility
Facility Address: 28900 268th Street, Maryville, MO 64468
Legal Description: Sec. 21, T64N, R35W, Nodaway County
UTM Coordinates: X=343487, Y=4466801
Receiving Stream: Tributary to One Hundred and Two River
First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.: (10240013-0304)

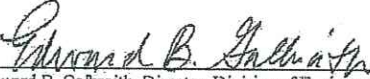
is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

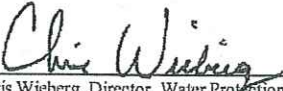
Outfall #001 – Residential Subdivision and Commercial Property – SIC #8641/6512
Septic Tanks/ Recirculating sand filter /sludge disposal by contract hauler.
Design population equivalent is 54.
Design flow is 5,400 gallons per day.
Design sludge production is 0.38 dry tons/year.

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

April 1, 2018
Effective Date


Edward B. Galbraith, Director, Division of Environmental Quality

September 30, 2022
Expiration Date


Chris Wieberg, Director, Water Protection Program

**OUTFALL
#001**

**TABLE A.
FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on **April 1, 2018** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	MGD	*		*	once/quarter***	24 hr. estimate
Biochemical Oxygen Demands	mg/L		45	30	once/quarter***	grab
Total Suspended Solids	mg/L		45	30	once/quarter***	grab
<i>E. coli</i> (Note 1)	#/100mL	1,030		206	once/quarter***	grab
Ammonia as N (Apr 1 – Sep 30) (Oct 1 – Mar 31)	mg/L	3.6 7.5		1.4 2.9	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2018</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
EFFLUENT PARAMETER(S)	UNITS	MINIMUM		MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH – Units **	SU	6.5		9.0	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2018</u> .						

* Monitoring requirement only.

** pH is measured in pH units and is not to be averaged.

*** See table below for quarterly sampling.

Note 1 - Effluent limitations and monitoring requirements for *E. coli* are applicable only during the recreational season from April 1 through October 31. The Monthly Average Limit for *E. coli* is expressed as a geometric mean.

Quarterly Minimum Sampling Requirements				
Quarter	Months	<i>E. coli</i>	All Other Parameters	Report is Due
First	January, February, March	Not required to sample.	Sample at least once during any month of the quarter	April 28 th
Second	April, May, June	Sample at least once during any month of the quarter	Sample at least once during any month of the quarter	July 28 th
Third	July, August, September	Sample at least once during any month of the quarter	Sample at least once during any month of the quarter	October 28 th
Fourth	October	Sample once during October	Sample at least once during any month of the quarter	January 28 th
	November & December	Not required to sample.		

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

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

Permit No. MO-0131661

Owner: United Services, Inc.
Address: P.O. Box 757, Maryville, MO 64468

Continuing Authority: Same as above
Address: Same as above

Facility Name: Tuscany Lake / Vista Ridge Subdivision
Facility Address: Terminus of Hurley Drive, Savannah, MO 64485

Legal Description: Sec. 3, T58N, R35W, Andrew County
UTM Coordinates: X= 344375, Y= 4415607

Receiving Stream: Tributary to Dillon Creek
First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.: (10240011-0102)

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

FACILITY DESCRIPTION


Outfall #001 – Non-POTW – Residential Subdivision – SIC #8641
Recirculating sand filter/chlorination/dechlorination/sludge disposal by contract hauler
Design population equivalent is 291.
Design flow is 29,120 gallons per day.
Actual flow is 3,622 gallons per day.
Design sludge production is 4.4 dry tons/year.

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

January 1, 2018
Effective Date


Edward B. Galbraith, Director, Division of Environmental Quality

December 31, 2022
Expiration Date


Chris Wieberg, Director, Water Protection Program

OUTFALL #001	TABLE A FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS	PAGE NUMBER 2 of 4
		PERMIT NUMBER MO-0131661

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on January 1, 2018 and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	MGD	*		*	once/quarter***	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		45	30	once/quarter***	grab
Total Suspended Solids	mg/L		45	30	once/quarter***	grab
<i>E. coli</i> (Note 1)	#/100mL	1030		206	once/quarter***	grab
Ammonia as N (Apr 1 – Sep 30) (Oct 1 – Mar 31)	mg/L	4.4 8.4		1.4 2.8	once/quarter***	grab
Total Residual Chlorine (Note 2)	µg/L	< 130		< 130	once/quarter***	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE APRIL 28, 2018. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

EFFLUENT PARAMETER(S)	UNITS	MINIMUM		MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH – Units **	SU	6.5		9.0	once/quarter***	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE APRIL 28, 2018.

EFFLUENT PARAMETER(S)	UNITS	DAILY MINIMUM		MONTHLY AVERAGE MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Dissolved Oxygen	mg/L	*		*	once/quarter***	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE APRIL 28, 2018.

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged.
- *** See table below for quarterly sampling.

Note 1 - Effluent limitations and monitoring requirements for *E. coli* are applicable only during the recreational season from April 1 through October 31. The Monthly Average Limit for *E. coli* is expressed as a geometric mean.

Note 2 - This permit contains a Total Residual Chlorine (TRC) limit.

- (a) The Water Quality Based Effluent Limit for Total Residual Chlorine was calculated to be 17 µg/L (daily maximum limit) and 8 µg/L (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The Department has determined the current acceptable ML for total residual chlorine to be 130 µg/L when using the DPD Colorimetric Method #4500 – CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit. Measured values greater than or equal to the minimum quantification level of 130 µg/L will be considered violations of the permit and values less than the minimum quantification level of 130 µg/L will be considered to be in compliance with the permit limitation.
- (b) Disinfection is required during the recreational season from April 1 through October 31. Do not chlorinate during the non-recreational months and an actual analysis for TRC and Dissolved Oxygen (DO) is not necessary.
- (c) Do not chemically de-chlorinate **if it is not needed to meet the limits in your permit**.
- (d) If no chlorine was used in a given sampling period, an actual analysis for TRC and Dissolved Oxygen (DO) is not necessary. Simply report as "0 µg/L" for TRC and "NA" for DO.