ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
NOTICE OF INTENT
INDIVIDUAL TREATMENT FACILITIES
NPDES GENERAL PERMIT ARG550000

Application Type: **New** ☒ **Renewal** ☐ **(Permit # ARG55_____)**

I. PERMITTEE/OPERATOR INFORMATION

Permittee (Legal Name): Trent and Courtnie Stubbs
Permittee Mailing Address: 173 Walker Drive
Permittee City: Sheridan
Permittee State: AR Zip: 72150
Permittee Telephone Number: 870-917-9487
Permittee Fax Number: NA
Permittee E-mail Address: cnstubbs@yahoo.com

Operator Type:
☐ State ☐ Partnership
☐ Federal ☐ Corporation*
☒ Sole Proprietorship/Private
*State of Incorporation: _____
The legal name of the Permittee must be identical to the name listed with the Arkansas Secretary of State.

II. INVOICE MAILING INFORMATION (Home owners are exempt.)

Invoice Contact Person: N/A
Invoice Mailing Company: _____
Invoice Mailing Address: _____
City: _____
State: _____ Zip: _____
Telephone: _____

III. FACILITY INFORMATION

Facility Name: Stubbs Residence
Facility Address: 173 Walker Drive
Facility County: Grant
Facility Latitude: 34 Deg 17 Min 19.6 Sec
Facility Contact Person: Courtnie Stubbs
Telephone Number: 870-917-9487
Facility City, State & Zip: Sheridan, Arkansas 72150
Facility Longitude: 92 Deg 23 Min 14.9 Sec
Datum
Accuracy: _____ Method: _____ : _____ Scale: _____ Description: _____

IV. DISCHARGE INFORMATION

Outfall Number: 001
Flow: 450 gpd (Gallons per Day)
Stream Segment: 2C
Hydrologic Basin Code: 804 02 03
Outfall Latitude: 34 Deg 17 Min 16.5 Sec
Outfall Longitude: 92 Deg 23 Min 16.1 Sec
Datum
Accuracy: _____ Method: _____ : _____ Scale: _____ Description: _____
Type of Treatment: Bio Microbics Microfast 0.5 with UV and Post Aeration
Receiving Stream: Ouachita River

V. FACILITY PERMIT INFORMATION

NPDES Individual Permit Number (If Applicable): AR00
NPDES General Permit Number (If Applicable): ARG
State Construction Permit Number: _____
NPDES General Construction Stormwater Permit Number (If Applicable): ARR15

SCANNED
APR 18 2024
MAILROOM

VI. OTHER INFORMATION:

Operator Name: David Meints

Operator License Number: 009055 License Class: III

Consultant Contact Name: David Meints

Consultant Email Address: david@meincowastewater.com

Consultant Address: PO Box 1001 City: Bryant State: AR Zip: 72089

Consultant Phone Number: 501-804-0837 Consultant Fax Number: 501-821-4048

Has this treatment system been approved by AHD? Yes ☒ No ☐

Disclosure Statements:

Arkansas Code Annotated Section 8-1-106 requires that all applicants for the issuance or transfer of any permit, license, certification or operational authority issued by the Arkansas Department of Environmental Quality (ADEQ) file a disclosure statement with their applications. The filing of a disclosure statement is mandatory. No application can be considered complete without one. You must submit a new disclosure statement even if you have one on file with the Department. The form may be obtained from ADEQ web site at: http://www.adeq.state.ar.us/disclosure_stmt.pdf.

VII. CERTIFICATION OF OPERATOR

CS (Initial) "I certify that, if this facility is a corporation, it is registered with the Secretary of the State of Arkansas."

CS (Initial) "I certify that the cognizant official designated in this Application is qualified to act as a duly authorized representative under the provisions of 40 CFR 122.22(b). If no cognizant official has been designated, I understand that the Department will accept reports signed only by the Applicant."

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

Responsible Official Printed Name: Courtnie Stubbs Title: Owner

Responsible Official Signature: [signature] Date: 12/12/23

Responsible Official Email: cnstubbs@yahoo.com

Cognizant Official Printed Name: David Meints Title: Class III Operator

Cognizant Official Signature: [signature] Telephone: 501-804-0837

Cognizant Official Email: david@meincowastewater.com

X. PERMIT REQUIREMENT VERIFICATION

Please check the following to verify completion of permit requirements.

	Yes	No	* If No is answered for any of the questions, then a permit can not be issued!
Submittal of Complete NOI?	☒	☐	
Submittal of Required Permit Fee?	☐	☒	Check Number:
Submittal of AHD Form EHP-19?	☒	☐	
Submittal of Site Map?	☒	☐	
Submit of disclosure		☒	

IMPORTANT NOTICE TO PROPERTY OWNER

The Arkansas Department of Health's approval of a discharging sewage system **does not** relieve the property owner of any other local, state, or federal requirement regarding sewage discharging systems. Please be advised that **all** wastewater systems that discharge sewage to the surface are required to notify:

Arkansas Department of Environmental Quality

ATTN: Permits Branch

5301 North Shore Drive

North Little Rock, AR 72118

Phone Number: 501-682-0623

Web Site: www.adeq.state.ar.us

ATU surface discharge

Arkansas Department of Health
Environmental Health Protection

Receipt Number 24820420

Individual Onsite Wastewater System Permit Application

Permit Type ☒ New Installation ☐ Alteration / Repair

DR Environmental ID # 6 3 0 1 1 1 7 0 1 1

Fee Schedule for Structures		√
Structures 1500 sq ft or less	$ 30.00	☑
Structures more than 1500 sq ft and up to 2000 sq ft	$ 45.00	☐
Structures more than 2000 sq ft and up to 3000 sq ft	$ 90.00	☑
Structures more than 3000 sq ft and up to 4000 sq ft	$120.00	☐
Structures more than 4000 sq ft	$150.00	☐
Alteration and Repair	$ 30.00	☐

Part 1 Application

Treatment Type (check one)
- ☐ STD = Standard Septic Tank
- ☐ ISF = Intermittent Sand Filter
- ☐ PMF = Proprietary Media Filter
- ☐ OTH = Other (Describe)
- ☒ ATU = Aerobic Treatment Plant
- ☐ RSF = Re-circulating Sand Filter
- ☐ RGF = Re-circulating Gravel Filter
- ☐ HLD = Holding Tank

Disposal Method (check one)
- ☐ STD = Standard Absorption Field
- ☒ SUR = Surface Discharge
- ☐ CPF = Capping Fill
- ☐ OTH = Other
- ☐ LPD = Low Pressure Distribution
- ☐ HLD = Holding Tank
- ☐ SRL = Serial Distribution
- ☐ DRP = Drip Irrigation

1. Owner's/Applicant's Name Trent and Courtnie Stubbs	2. Phone Number 870-917-9487
3. Mailing Address 442 Grant 17, Sheridan, AR 72150	4. County Grant

5. Address of Proposed System (If a 911 address is not available, attach detailed directions or map)
173 Walker Drive, Sheridan, AR 72150

6. Subdivision Name Bella Acres Subdivision	7. Approval Date n/a	8. Date Recorded n/a	9. Lot Number 7
10. Lot Dimensions 330' x 470' x 284' x 473'	11. Total Area (Acres) 3.31	12. # Bedrooms # People 4	13. Daily Flow (GPD) 450

14. Brief Legal Description of Property (Attach a separate sheet of paper, if necessary)
SW1/4 NW1/4 S14-T5S-R13W

15. Water Supply (Specify supplier, if Public Water) South Sheridan Water	16. GPS Coordinates 34.2886124, -92.3883452

17. Loading Rates	(gpd/ft²)	18. System Specifications						
Primary Area	n/a	a. Size of Septic Tank	500/1250 ATU	gal	f. Trench Depth	n/a	inches	
Secondary Area	n/a	b. Size of Dose Tank	n/a	gal	g. Trench Spacing	n/a	feet	
Percolation Test	(min/in)	c. Absorption Area	n/a	ft²	h. Trench Media (List Below)		i.Trench Width	
Primary Area Avg	n/a	d. Number of Field Lines	n/a		n/a		n/a	in
Secondary Area	n/a	e. Length of Field Lines	n/a	ft	n/a		n/a	in

TO THE OWNER
The permit for construction may be deemed invalid by the local Environmental Health Specialist before the start of construction, if the site and/or soil conditions have changed after approval of this permit, or if the information within this permit is inaccurate or has been found to be misrepresented. Approval for operation does not constitute a guarantee that the system will function properly. The approval states that the system was designed and installed according to the Arkansas Department of Health, Rules and Regulations Pertaining to Onsite Wastewater Systems, unless there are exceptions or deviations noted in the comments. A Permit for Construction is valid for one (1) year from the date of approval. The authorized agent must revalidate a permit more than one (1) year old prior to the start of any construction.

19. Utilization Verification
I hereby attest that item 12, the number of bedrooms (number of persons for commercial) and square footage of the structure that will utilize the designed individual onsite wastewater system in this permit application, is accurate. I have reviewed the permit application and understand the layout, installation, maintenance, operation and expense(s) that may be associated with this system.

Owner/Applicant Signature DPT A Date _____

20. I certify that I have conducted the above tests and that the above listed information is in accordance with the latest requirements of the Arkansas Department of Health Rules and Regulations Pertaining to Onsite Wastewater Systems.

Designated Representative Signature | Title: Designated Representative | Soil Certified ☒ Yes ☐ No

Scott Krupicki	12-15-2021	501-776-7702
Print Name	Date	Phone Number

21. Approval of Health Authority
The information and specifications in the application has been reviewed and found to meet the requirements of the Arkansas Department of Health Rules and Regulations Pertaining To Onsite Wastewater Systems. A PERMIT FOR CONSTRUCTION is hereby issued.

Environmental Specialist Signature	EHS Number	Date
James Lowe, RS	836	12-29-2021

Individual Onsite Wastewater System Permit Application

Receipt Number

Continue Part 1

22. Soil Criteria (Primary Area)			Indicate the depth to items a-f, if observed in the soil (designate in inches)				
a. Bedrock	b. BSWT	c. MSWT	d. LSWT	e. Adj. MSWT	f. Adj. LSWT	g. H.C./Depth	h. Loading Rate (gpd/ft^2)
48"	Surface	Surface	18"	n/a	n/a	mod/48"	Not Loadable

23. Soil Criteria (Secondary Area)			Indicate the depth to items a-f, if observed in the soil (designate inches)				
a. Bedrock	b. BSWT	c. MSWT	d. LSWT	e. Adj. MSWT	f. Adj. LSWT	g. H.C./Depth	h. Loading Rate (gpd/ft^2)
48"	Surface	Surface	18"	n/a	n/a	mod/48"	Not Loadable

24. Seasonal Water Table (SWT) Classes Detail

Primary Area		List Redoximorphic Features and/or Clay Content Restrictions
Brief	in	depletions and concentrations
Moderate	in	chroma 2
Long	in	chroma 2>50%
Secondary Area		**List Redoximorphic Features and/or Clay Content Restrictions**
Brief	in	depletions and concentrations
Moderate	in	chroma 2
Long	in	chroma 2>50%

Comments No loadable soil found on property. ATU with surface discharge required

Part 2 Installation Inspection

Septic tank manufacturer	Pump information
Septic tank material	Trench media and width
Dose tank manufacturer	Depth of interceptor drain
Dose tank material	Depth of settled fill

Name of Installer	License Number

Installation Inspected by ☐ Environmental Health Specialist ☐ Designated Representative
(check one or installer signs System Installation Verification below)

Signature _____ EHS / License Number _____ Date _____

System Installation Verification
I have installed this system as designed and in compliance with all Rules and Regulations Pertaining to Onsite Wastewater Systems.

Installer Signature _____ License Number _____ Date _____

Part 3 Permit for Operation

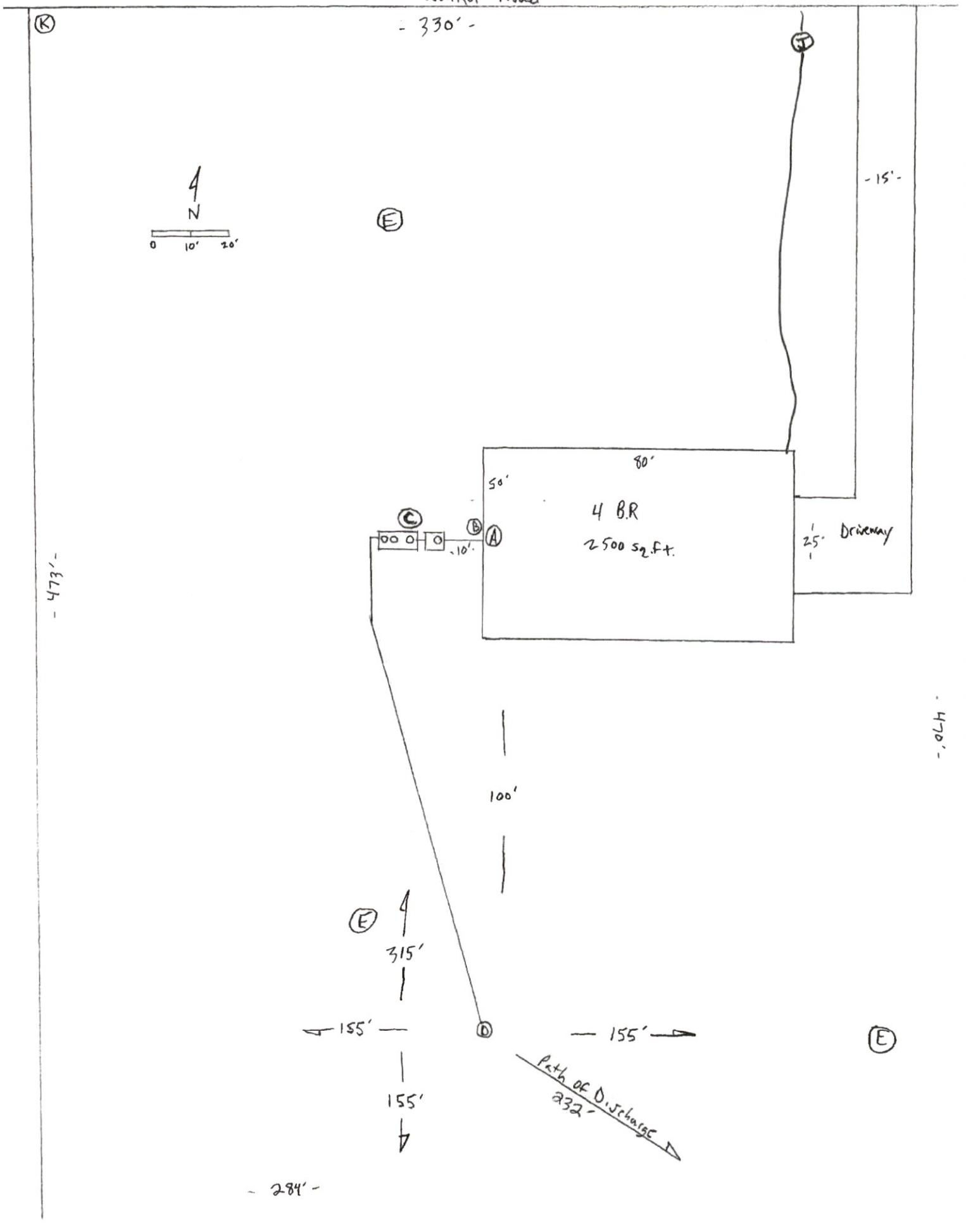
The information contained in Part 1 and 2 of this form has been reviewed and found to meet the requirements of the Arkansas Department of Health. THE PERMIT FOR OPERATION of this system is hereby issued.

Environmental Health Specialist _____ Signature _____ EHS Number _____ Date _____

Comments

Site Revalidation conducted by ☐ Environmental Health Specialist ☐ Designated Representative
(check one)

Signature _____ EHS / License Number _____ Date _____


- Walker Road -
- 330' -
K
G
- 15' -
N
0 10' 20'
E
80'
50'
4 B.R
2500 sq.ft.
C
B
A
10'
25'
Driveway
- 473' -
- 470' -
100'
E
315'
155'
155'
D
E
155'
Path of Discharge
232'
- 284' -

Drawing notes

A = House sewer stub out location

B = 4" two way clean out installed outside of structure

C = 500 gallon trash tank and ATU

D = Point of discharge

E = Unsuitable soil pits

J = Proposed water service line. Must be 10' away from any part of the septic system

K = Benchmark is NW property corner.

Pipe Specifications

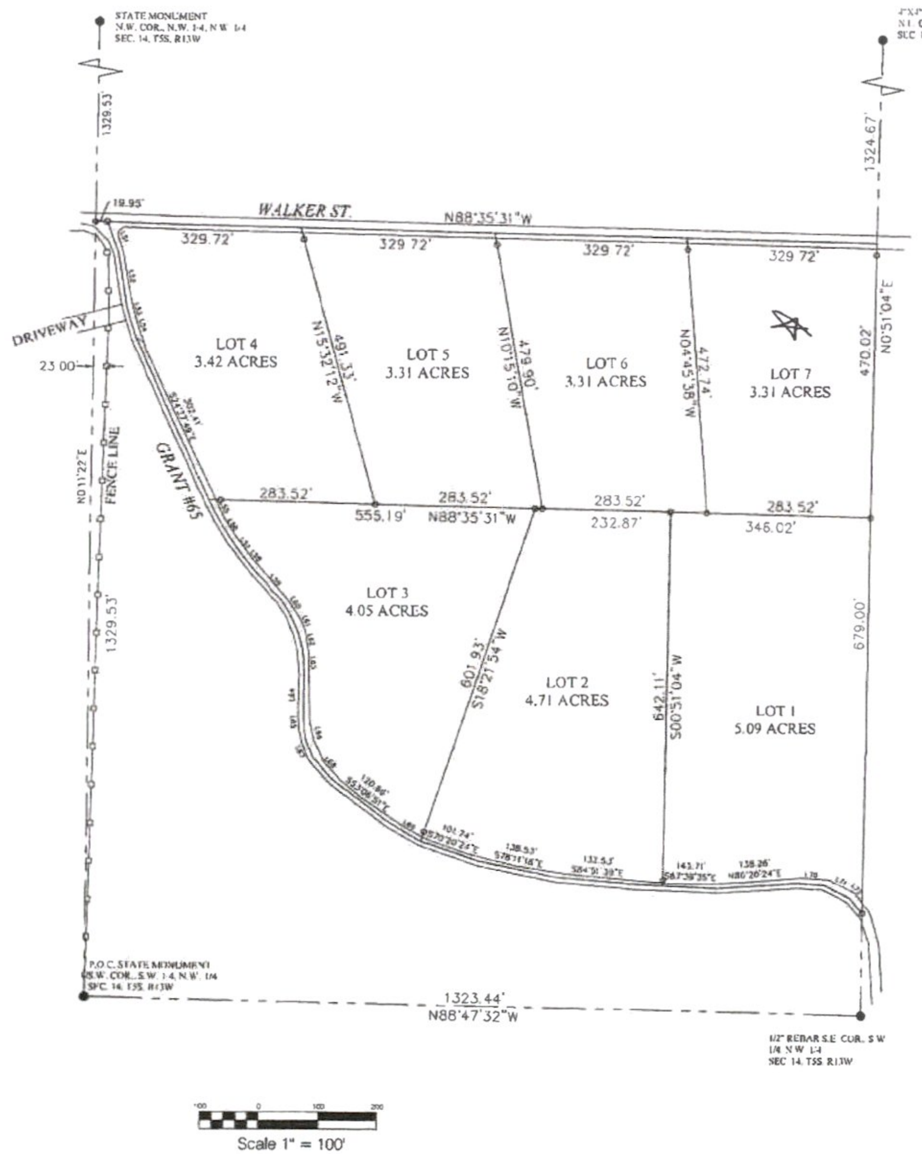
Use 4" schedule 40 from house stub out to tank inlet and from tank outlet to point of discharge

Elevations (ground/installed flow line or trench bottom)

Stub out = 6'9"/8'1"
500g inlet = 6'7"/8'3"
500g outlet = 6'7"/8'6"
ATU inlet =6'7"/8'7"
ATU outlet = 6'7"/9'6"
POD= 10'6"
Benchmark = 1'0"

BELLA ACRES SUBDIVISION

TO THE CITY OF SHERIDAN, ARKANSAS



SURVEY DESCRIPTION

A TRACT OF LAND LOCATED IN PART OF THE [illegible] QUARTER OF THE NORTHWEST QUARTER, SECTION 14, TOWNSHIP 5 SOUTH, RANGE 13 WEST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT SOUTHWEST CORNER OF SAID [illegible] QUARTER OF THE NORTHWEST QUARTER, THENCE N00°11'22"E ALONG THE WEST LINE THEREOF FOR A DISTANCE OF 1329.53 FEET TO THE NORTHWEST CORNER THEREOF; THENCE S [illegible] ALONG THE NORTH LINE THEREOF FOR A DISTANCE OF [illegible] FEET TO THE INTERSECTION OF SAID NORTH LINE AND THE CENTERLINE OF GRANT COUNTY ROAD #65; THENCE ALONG THE SAID CENTERLINE [illegible] MORE OR LESS.

L51	S21°05'50"E		54.38'
L52	S09°28'55"E		89.78'
L53	S15°05'43"E		28.34'
L54	S16°17'49"E		33.93'
L55	S08°32'55"E		30.81'
L56	S32°04'19"E		40.51'
L57	S35°48'56"E		32.75'
L58	S40°34'13"E		32.84'
L59	S42°43'47"E		73.05'
L60	S31°47'00"E		55.18'
L61	S22°20'28"E		23.58'
L62	S17°02'33"E		33.40'
L63	S04°24'15"E		38.39'
L64	S00°58'42"W		72.58'
L65	S03°22'31"E		29.46'
L66	S12°04'27"E		21.32'
L67	S22°23'38"E		27.06'
L68	S42°16'33"E		52.87'
L69	S58°56'15"E		81.99'
L70	S86°44'03"E		47.51'
L71	S82°48'00"E		49.16'
L72	S41°17'38"E		33.31'

CERTIFICATION OF FINAL PLAT APPROVAL

CERTIFICATE OF FINAL SURVEYING ACCURACY

[illegible]

Date of Execution

Registered Professional Surveyor
[illegible], Arkansas

CERTIFICATE OF FINAL PLAT APPROVAL

[illegible]

Planning Commission

City of Sheridan

CERTIFICATE OF OWNER

[illegible]

Date of Execution

Address

BASIS OF BEARING

Based on GPS Observations taken in Arkansas State Plane South Zone Grid

NOTES

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]

LEGEND

- FOUND MONUMENT
- SET 1/2" REBAR W/CAP
- COMPUTED POINT
- CONTROLLING CORNER
- BOUNDARY
- BUILDING LINE
- EASEMENT
- FENCE LINE
- ROAD
- RIGHT OF WAY
- SECTION LINE

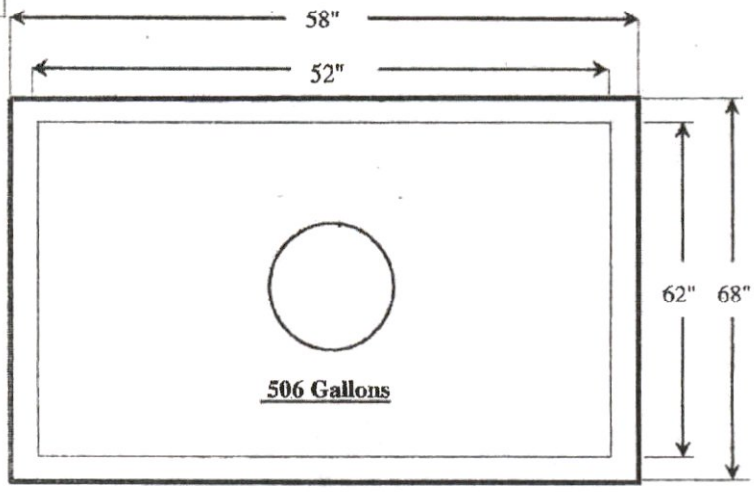
SOUTH POINT SURVEYING, PLLC
[illegible], Sheridan, AR [illegible]

Drawing | Date | Page | Prepared for
[illegible]

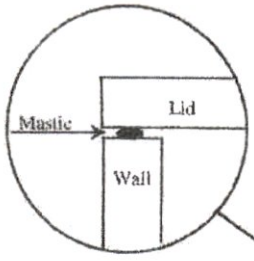
500 – Gallon Pump Tank

TOP VIEW

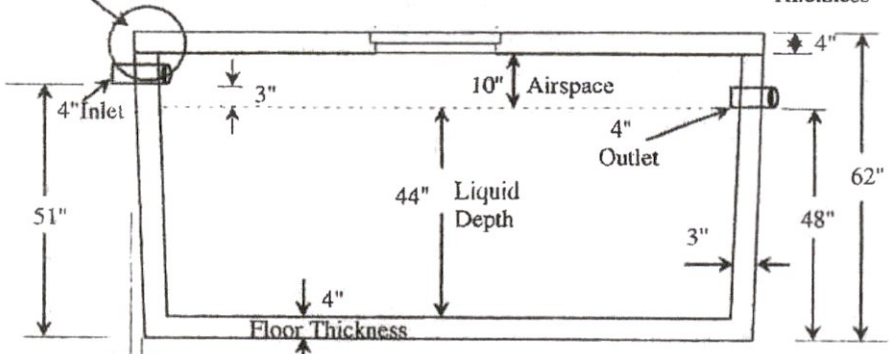
Drawings Not To Scale

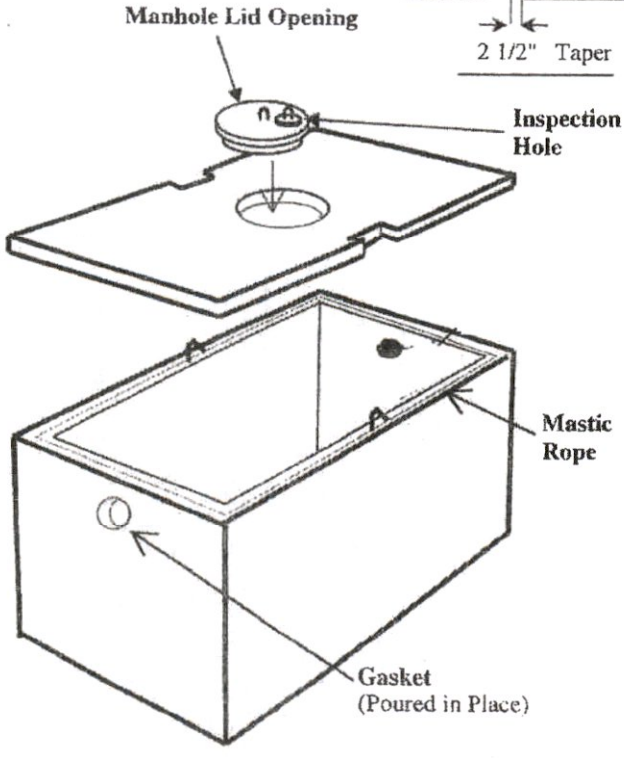


Enlarged Detail



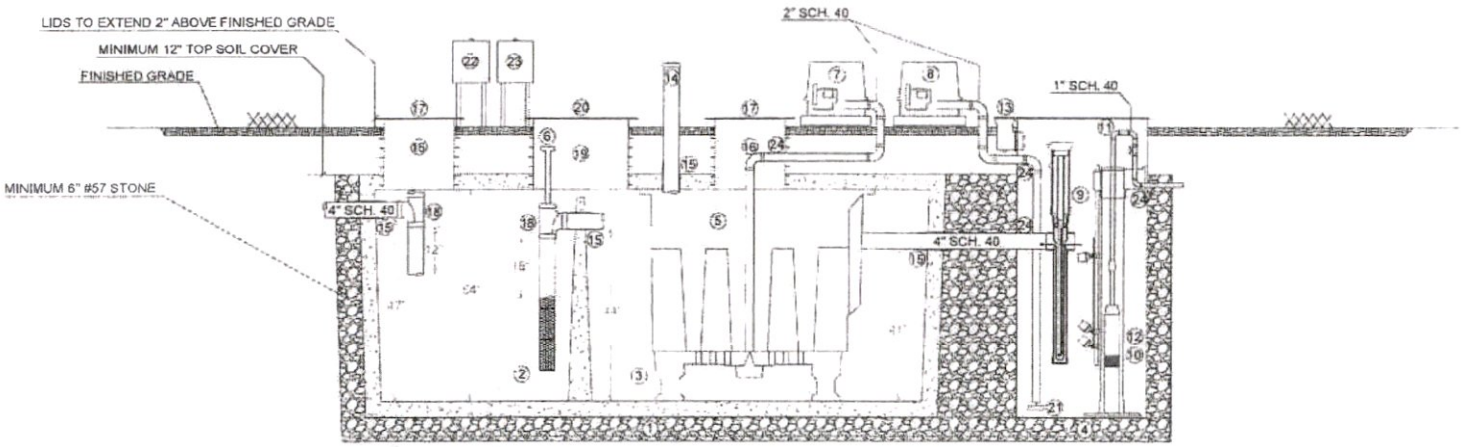
SIDE VIEW





WHITTEN CONCRETE CO.
2703 W. 2nd AVE.
PINE BLUFF, AR. 71601
PHONE: 870-534-6901
FAX: 870-534-6902

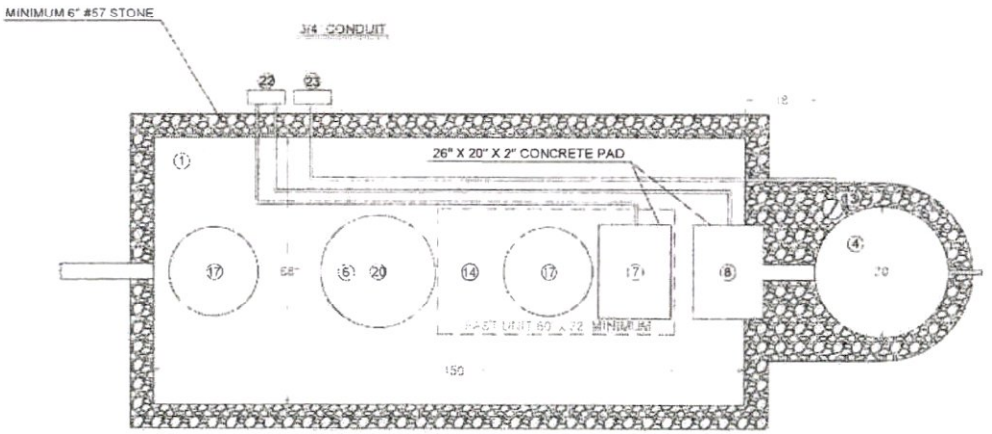
500 – Gallon Pump Tank
Drawing #: DZ-2
Drawing by: SMR **Date: 1/19/2011**



SECTION VIEW

EQUIPMENT AND PARTS LIST

1. WHITTEN CONCRETE TANK OR EQUIVALENT, VOLUME 1500 GALLONS
2. SETTLING TANK, 500 GALLONS
3. TREATMENT TANK VOLUME, 1000 GALLONS
4. STEELE PLASTICS PUMP BASIN, 30" X 72" (STEELE PLASTICS BA30X072TA & CVF30SLDRT) OR EQUIVALENT
5. MICROFAST TREATMENT UNIT, (BIOMICROBICS MFC 0.5)
6. EFFLUENT FILTER, (BIOMICROBICS SANITEE-418)
7. BLOWER, (BIOMICROBICS FUJI $\frac{3}{4}$ HP 1PH VCF30) & HOUSING, (BIOMICROBICS 250-BBHSFL)
8. BLOWER, (BIOMICROBICS FUJI $\frac{1}{2}$ HP 1 PH VCF20) & HOUSING, (BIOMICROBICS 250-BBHSFL)
9. UV DISINFECTION UNIT, (SALCOR 3G)
10. DISCHARGE PUMP, (ORENCO PF100511) OR EQUIVALENT
11. DISCHARGE ASSEMBLY, 1"
12. UNIVERSAL FLOW INDUCER, (ORENCO FIT D 60) OR EQUIVALENT
13. EXTERNAL SPLICE BOX, (ORENCO SB4EX) OR EQUIVALENT
14. VENT CAP, 4", (GIZMO ENGINEERING) OR EQUIVALENT
15. BOOT SEAL, (POLYLOK 3005-CE)
16. RISER, ULTRA-RIB, 18"
17. FIBERGLASS LID, 18", (ORENCO FLD18G) OR EQUIVALENT
18. SANITARY "T", 4" SCHEDULE 40
19. RISER, ULTRA-RIB, 24"
20. FIBERGLASS LID, 24", (ORENCO FLD24G) OR EQUIVALENT
21. DIFFUSER, (FINE BUBBLE, 10 SCFM, 304 SS) OR EQUIVALENT
22. CONTROL PANEL, (BIOMICROBICS 110V AMI)
23. CONTROL PANEL, POST AIR
24. GROMMET, MATCH DIAMETER OF PIPE



PLAN VIEW

ETS ENVIRO-TECH SOLUTIONS, LLC
ENGINEERING CONSULTING

BIOMICROBICS WASTEWATER TREATMENT SYSTEM
ARKANSAS

MEINCO WASTEWATER SYSTEMS

BIOMICROBICS WASTEWATER TREATMENT SYSTEM MICRO FAST FLOW=500 GPD

10-M131

Specifications for MicroFAST 0.50 Wastewater Treatment System

1. GENERAL

The contractor shall furnish and install (1) MicroFAST®0.50 treatment system as manufactured by Bio-Microbics, Inc. The treatment system shall be complete with all needed equipment as shown on the drawings and specified herein.

The principal items of equipment shall include the FAST® system insert, blower assembly, blower controls and leg extensions or lid. All other items will be provided by others. The MicroFAST 0.50 unit shall be situated within a 450 Gallon [1700L] minimum compartment as shown on the drawings. Suggested maximum settling zone is (1) X the daily flow. Tank must provide adequate pump out access and conform to local, state, and all other applicable codes. The contractor shall coordinate the proper fabrication of the tank between the FAST system and tank supplier with regard to fabrication of the tank, installation of the FAST unit, and delivery to the job site.

2. OPERATING CONDITIONS

The MicroFAST 0.50 treatment system shall be capable of treating the wastewater produced by typical family activities (bath, laundry, kitchen, etc.) ranging from (1) one to (8) eight people and not to exceed 500 US Gallons per day (1800 LPD) provided the waste contains nothing that will interfere with biological treatment. The FAST system is a biological treatment system not meant for non-biodegradable or industrial wastewater.

3. MEDIA

The FAST® media shall be manufactured of rigid PVC, polyethylene, or polypropylene and it shall be supported by the polyethylene insert. The media shall be fixed in position and contain no moving or wearing parts and shall not corrode. The media shall be designed and installed to ensure that sloughed solids descend through the media to the bottom of the septic tank.

4. BLOWER

The MicroFAST 0.50 unit shall come equipped with a regenerative type blower capable of delivering 17-25 CFM [31-46 m3/hr]. The blower assembly shall include an inlet filter with metal filter element. The blower shall be mounted outside the tank on a contractor supplied concrete base. Blower piping to the tank shall use non-corrosive material (PVC, Galvanized, or stainless Steel). Do not run galvanized pipe inside the treatment tank. Refer to Installation Manual for further details.

5. REMOTE MOUNTED BLOWER

The blower shall be placed on a contractor supplied concrete base. The blower must not sit in standing water and its elevation must be higher than the tank and normal flood level. A two-piece, rectangular housing shall be provided. The discharge air line from the blower to the MicroFAST® System shall be provided and installed by the contractor.

6. ELECTRICAL

The electrical source should be within 150 feet [45 meters] of the blower consult local codes for longer wiring distances. All wiring must conform to all applicable codes(IEC, NEC, etc.). Wiring distances must prevent significant voltage loss. Input power on 60Hz electrical systems 110/220VAC, 1Ø, 3.5/1.7 FLA, on 50 Hz electrical systems 220VAC, 1Ø, 1.9 FLA. Other voltages and phase are also available. Actual power consumption varies with site conditions. All conduit and wiring shall be supplied by contractor.

7. CONTROLS

The control panel provides power to the blower and contains an alarm system consisting of a visual and audible alarm capable of signaling blower circuit failure and high water conditions. The control panel is equipped with SFR® (Sequencing Fixed Reactor) timed control feature. A manual alarm silence button is included.

8. INSTALLATION AND OPERATING INSTRUCTIONS

All work must be done in accordance with local codes and regulations. Installation of the FAST 0.50 shall be done in accordance with the written instructions provided by the manufacturer. Manuals shall be furnished, which will include a description of system installation, operation, and maintenance procedures.

9. FLOW AND DOSING

FAST® systems have been successfully designed, tested and certified receiving gravity, demand-based influent flow. When influent flow is controlled by pump or other means to help with highly variable flow conditions, then multiple dosing events should be used to maximize performance. The flow rate shall not exceed 5 gpm (19 Lpm) with a maximum hourly flow not to exceed 10% of the design daily flow (50 gph (190 LPH)).

10.WARRANTY

Bio-Microbics, Inc. warrants all new residential FAST® models (MicroFAST® 0.50, 0.625, 0.75, 0.90, and 1.5) against defects in materials and workmanship for a period of two years after installation or three years from date of shipment which ever occurs first. All other FAST® system models are warranted for a period of one year after installation or eighteen months from date of shipment, whichever occurs first. All are subject to the following terms and conditions below:

During the warranty period, if any part is defective or fails to perform as specified when operating at design conditions, and if the equipment has been installed and is being operated and maintained in accordance with the written instructions provided by Bio-Microbics, Inc., Bio-Microbics, Inc. will repair or replace at its discretion such defective parts free of charge. Defective parts must be returned by owner to Bio-Microbics, Inc.'s factory postage paid, if so requested. The cost of labor and all other expenses resulting from replacement of the defective parts and from installation of parts furnished under this warranty and regular maintenance items such as fillers or bulbs shall be borne by the owner. This warranty does not cover general system misuse, aerator components which have been damaged by flooding or any components that have been disassembled by unauthorized persons, improperly installed or damaged due to altered or improper wiring or overload protection. This warranty applies only to the treatment plant and does not include any of the structure wiring, plumbing, drainage, septic tank or disposal system. Bio-Microbics, Inc. reserves the right to revise, change or modify the construction and/or design of the FAST system, or any component part or parts thereof, without incurring any obligation to make such changes or modifications in present equipment. Bio-Microbics, Inc. is not responsible for consequential or incidental damages of any nature resulting from such things as, but not limited to, defect in design, material, or workmanship, or delays in delivery, replacements or repairs.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. BIO-MICROBICS SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO REPRESENTATIVE OR PERSON IS AUTHORIZED TO GIVE ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF ITS PRODUCTS. Contact your local distributor for parts and service.

DO NOT SCALE

UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]

BIO MICROBICS®

BETTER WATER. BETTER WORLD.®

MicroFAST 0.50 FAST Unit

WEIGHT	lb	SIZE	DRAWING NUMBER		SHEET
NAME	DATE	A	MicroFAST® 0.50 Specifications		3 OF 4
DRAWN CTC	12/18/2006				
CHECKED PF	9/18/2013	REVISED 9/18/2013		REV. INI-05-V	

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MODEL AT 1500

UV DISINFECTION SYSTEM

INSTALLATION AND OPERATION MANUAL

The Model AT 1500 UV disinfection system is listed with Underwriters Laboratories (UL) under Standard 979 as a residential treatment device. The installer should provide a power disconnect switch mounted to the exterior of the facility being served to de-energize power to the unit during maintenance. Electrical work must be performed in accordance with the latest edition of the National Electrical Code, as well as all applicable local codes. The Model AT 1500 UV disinfection system conforms to the applicable provisions of the Code of Federal Regulations (CFR) requirements including Title 21, Chapter 1, Subchapter J, Radiological Health. **CAUTION: DO NOT LOOK DIRECTLY AT THE UV LAMP OR EXPOSE SKIN DURING OPERATION. PERMANENT EYE DAMAGE AND SKIN BURNS WILL OCCUR FROM UV RADIATION EXPOSURE. UV BLOCKING SAFETY GLASSES MUST BE WORN DURING INSTALLATION, SERVICE OR ANY TIME THE LAMP MAY BE ILLUMINATED. UV BLOCKING SAFETY GLASSES ARE AVAILABLE FROM NORWECO.**

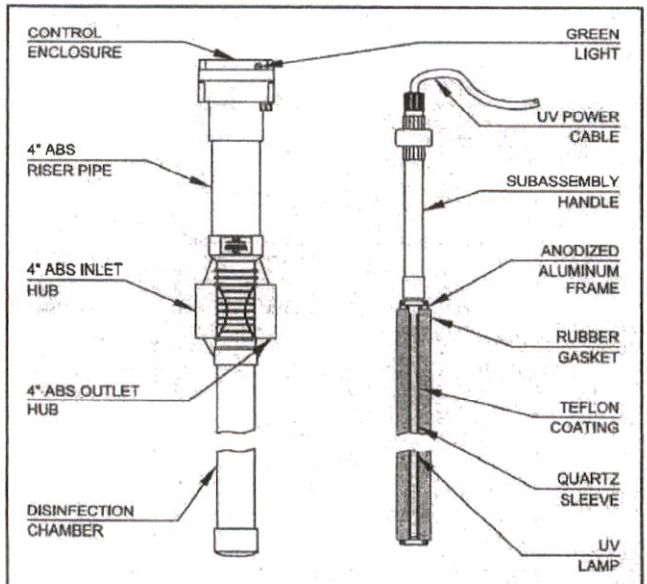
COMPONENTS

The Model AT 1500 UV disinfection system consists of the following components:

1) Control enclosure
2) 4" ABS riser pipe
3) Disinfection chamber with turbulence inducer
4) UV lamp (bulb) with male connector
5) Power cable with female twist lock connector
6) UV subassembly with quartz sleeve and Teflon coating
7) Subassembly handle

The components should be supplied by the installer:

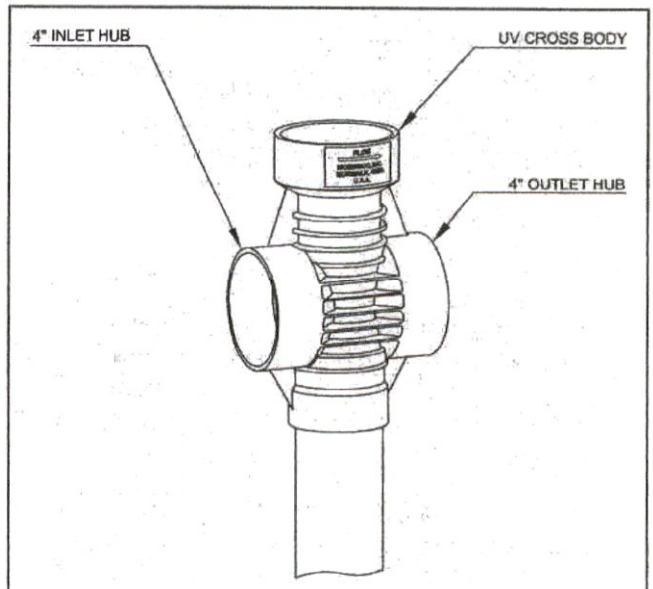
1) Disconnect switch
2) Solvent cement
3) Hacksaw
4) Glycerin (optional)
5) Clean, soft cloth
6) Isopropyl alcohol
7) #14/2 AWG cable
8) Conduit and fittings
9) Flat head screwdriver
10) Phillips head screwdriver



UV DISINFECTION CHAMBER AND SUBASSEMBLY

INSTALLATION INSTRUCTIONS

1. The excavation for the upstream wastewater treatment system should include an additional 3 feet of length to allow for installation of the Model AT 1500.
2. Carefully unpack the Model AT 1500 system. Remove and properly discard all packaging materials from the system components. The UV lamp should remain in the protective shipping sleeve until it is installed.
3. Flow direction indicator arrows are molded into the disinfection chamber. When installing the disinfection chamber, be sure to orient the chamber correctly with the flow arrows pointing towards the effluent plumbing.

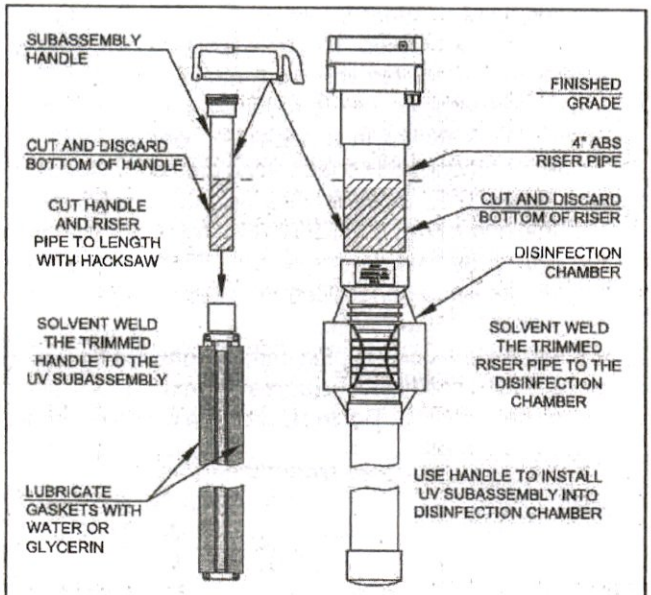


INLET AND OUTLET HUBS

4. Solvent weld the effluent line of the upstream treatment system to the 4" inlet hub of the Model AT 1500. Next, solvent weld the 4" outlet hub to the final effluent line. Cover the open top of the disinfection chamber and backfill up to the bottom of the plumbing.

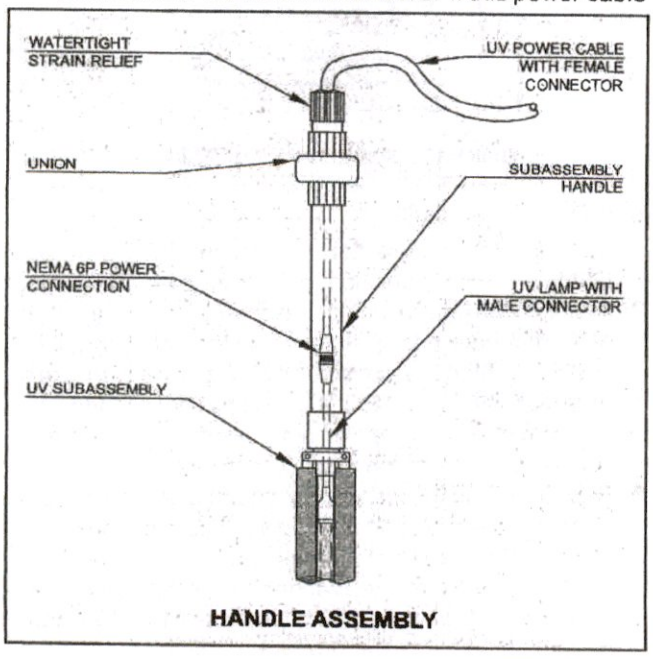
AT 1500 UV DISINFECTION INSTALLATION AND OPERATION (Cont.)

5. The control enclosure should be completely above grade in the finished installation. The riser pipe and subassembly handle are purposely manufactured longer than necessary and must be trimmed. Fit the riser pipe into the top of the disinfection chamber and mark a trim line on the bottom. Mark the subassembly handle on the bottom to trim the same amount.

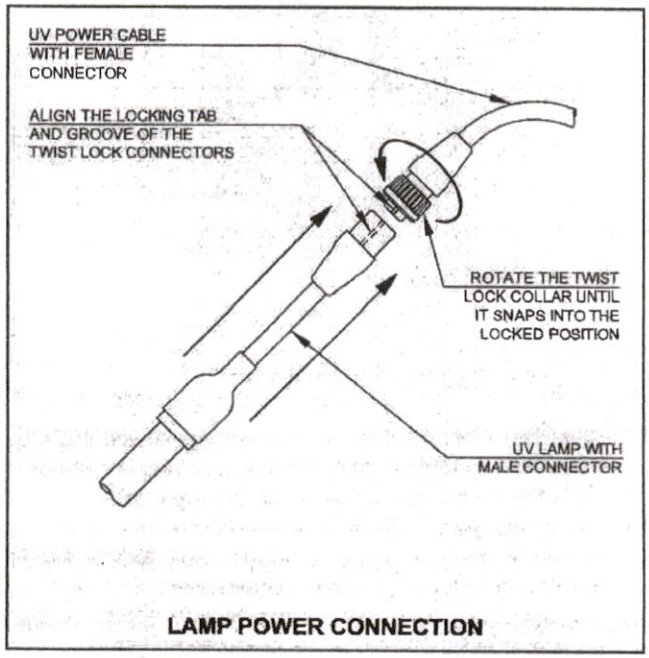


TRIM RISER PIPE AND HANDLE

6. Disassemble the union on subassembly handle and set aside the top portion with UV power cable.
7. Use a hacksaw to cut along the trim line on both the riser pipe and handle to make them the proper length.
8. Solvent weld the riser pipe to the disinfection chamber and solvent weld the handle to the UV subassembly.
9. The Model AT 1500 is shipped with the UV power cable connected to the control enclosure. If this power cable has become disconnected, it must be reconnected at this time. To do so, remove the gasketed cover from the control enclosure. Connect the lead labeled "ONE" on the UV power cable to the terminal block marked "1". Connect the lead labeled "TWO" to the terminal block marked "2". Connect the lead labeled "THREE" to the terminal block marked "3". Connect the yellow/green lead to the terminal marked "Y/G".



HANDLE ASSEMBLY



LAMP POWER CONNECTION

10. Remove the threaded access plug from the riser pipe.
11. Match the alignment tab on the male connector from the UV lamp to the alignment groove in the female twist lock connector on the UV power cable. Push the two connectors together until the male connector is fully seated in the female connector. Rotate the twist lock collar until it snaps into the locked position.
12. Insert the UV lamp and power cable into the handle assembly until the base of the lamp is seated in the bottom of the quartz sleeve. Rotate the power cable if the lamp becomes misaligned.
13. Lower the union onto the handle assembly, making sure to pull any slack cable through the strain relief connector. Assemble and tighten the union and strain relief to insure a watertight seal.
14. Use water or glycerin to lubricate the rubber gaskets located on both sides of the UV subassembly.
15. Do not touch the Teflon coating or allow excess glycerin to contact it. Use a clean, soft cloth and isopropyl alcohol to thoroughly clean the coating.
16. Fill the disinfection chamber with clean water.

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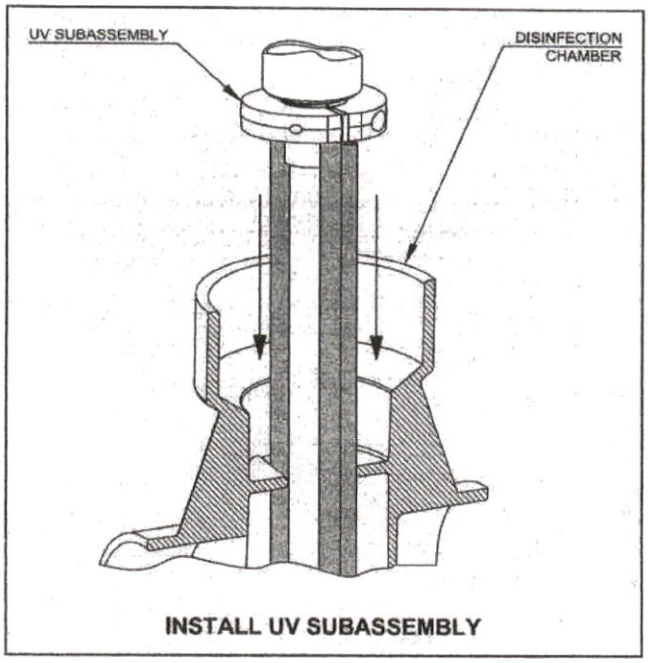
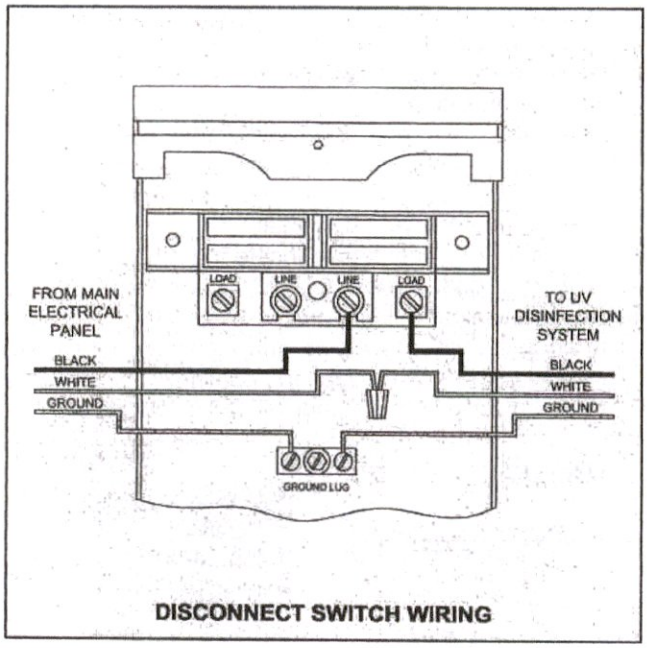
AT 1500 UV DISINFECTION INSTALLATION AND OPERATION (Cont.)



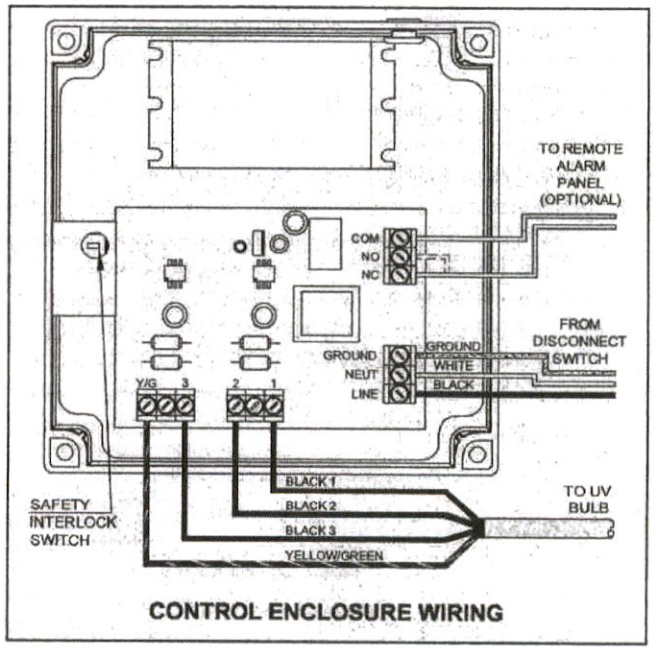
INSTALL UV SUBASSEMBLY

17. Align the rubber gaskets with the rectangular opening and lower the UV subassembly into the disinfection chamber.
18. Tuck the excess power cable into the riser pipe.
19. Use a dedicated 115 volt AC single phase 15 amp circuit in the main electrical panel for the AT 1500. **NOTE:** Make sure the breaker is off before proceeding.
20. Use a disconnect switch to de-energize power during service. Mount directly to the facility being served.
21. Install a #14/2 AWG cable from the dedicated breaker in the main electrical panel to the disconnect switch.
22. In the disconnect switch enclosure, connect the hot (black) lead from the main electrical panel to the "LINE" terminal. Connect the black lead from the UV system to the "LOAD" terminal. Wire nut both white leads together. Connect ground leads to the ground lug.



DISCONNECT SWITCH WIRING

23. Remove the control enclosure cover and black electrical insulator. Install a #14/2 AWG cable from the disconnect switch to the control enclosure. Insure the connection to the UV system is made in conduit, solvent welded to the conduit fitting provided. A watertight connection is critical for proper operation and safety.
24. Attach the incoming hot (black) lead to the terminal block marked "LINE". Attach the common (white) lead to the terminal block marked "NEUT". Attach the incoming ground lead to the terminal block marked "GROUND".
25. If a remote alarm panel is required, the alarm leads should be installed in a separate conduit, solvent welded to the second conduit fitting provided. Connect one alarm lead to either the normally open (NO) terminal or the normally closed (NC) terminal. Choose the correct terminal for the type of signal required by the remote alarm panel. Connect the other lead to the common (COM) terminal.
26. Solvent weld a conduit plug into any unused fittings.
27. Apply thread sealant to the access plug and install plug in the riser opening. Tighten to insure a watertight seal.



CONTROL ENCLOSURE WIRING

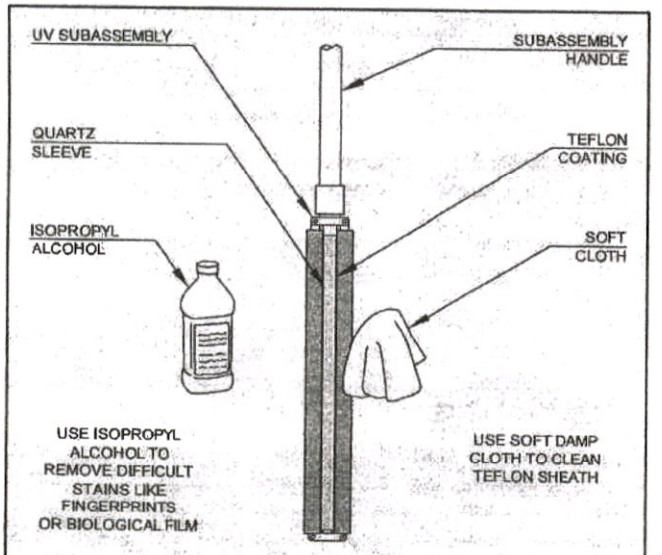
28. Reinstall the electrical insulator and four thumb screws. Make sure that the cutout for the safety interlock switch is positioned correctly over the switch.
29. Reinstall the control enclosure cover, insuring that the safety interlock post is aligned with the safety interlock switch. Tighten the four screws on the cover to insure a watertight seal. **NOTE:** If the switch is not aligned with the post, the UV lamp will not operate and the green light on the side of the enclosure will not illuminate.
30. Backfill around the disinfection chamber and riser pipe. Finished grade should be below the control enclosure to prevent the entry of surface water.
31. Turn on power at the disconnect switch and main service panel. Confirm the green light on the enclosure is illuminated indicating proper operation.

AT 1500 UV DISINFECTION INSTALLATION AND OPERATION (Cont.)

MAINTENANCE AND SERVICE

UV protective eyewear must be worn during service or any time the lamp may be illuminated. It is recommended that the subassembly be removed and serviced every six months to insure proper disinfection. To inspect and clean the Teflon coating:

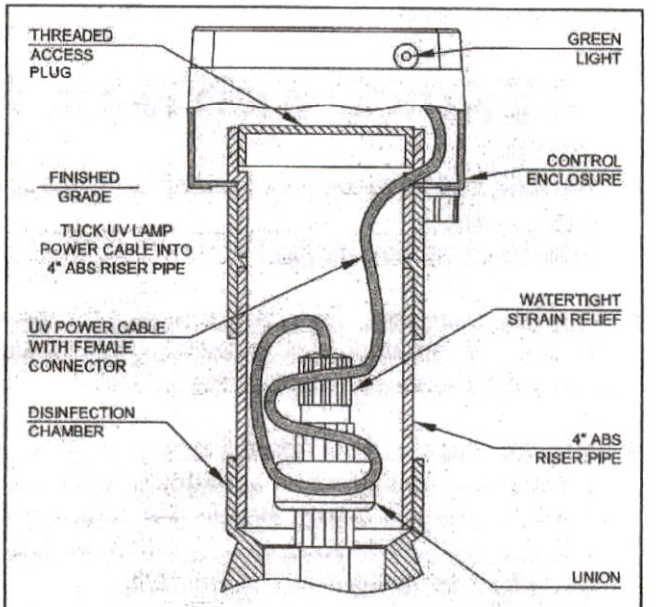
1. Turn off power to the UV system at the disconnect switch and/or main service panel. Confirm that the green light on the side of the enclosure is off.
2. Remove the control enclosure cover and access plug.
3. Carefully remove the UV subassembly from the disinfection chamber
4. Inspect the quartz sleeve and Teflon coating for signs of damage or an accumulation of biological film. If the quartz sleeve has been damaged, the UV subassembly must be replaced. If biological film is present on the surface of the Teflon coating, the coating must be cleaned to insure proper disinfection.
5. Use a soft damp cloth to carefully and thoroughly clean the Teflon coating.
6. Use isopropyl alcohol on a soft cloth to carefully remove difficult stains like fingerprints or biological film.
7. Remove all accumulated solids from the disinfection chamber using a vacuum or service pump.



CLEANING THE TEFLON COATING

It is recommended that the UV lamp be replaced every two years to insure proper disinfection of the treatment system effluent. The green light on the side of the control enclosure will no longer illuminate when the lamp needs replaced. To replace the lamp:

1. Repeat steps 1, 2 and 3 above.
2. Disassemble the union on the subassembly handle and remove the UV lamp using the power cable.
3. Disconnect the UV lamp from the UV power cord by rotating the twist lock collar ¼ turn.



TUCK POWER CABLE INSIDE RISER

4. Connect new lamp and carefully lower into the UV subassembly. Make sure the lamp is fully seated in the quartz sleeve.
5. Reassemble union and tighten strain relief.
6. Lower the subassembly into the disinfection chamber.
7. Reinstall the threaded access plug into the riser.
8. Reinstall the enclosure cover, insuring that the safety interlock post is aligned with the safety interlock switch. Tighten the four screws to insure a watertight seal.
9. Turn on power at the disconnect switch or main service panel. Verify that the green light on the side of the control enclosure is illuminated.

NOTE: UV lamps contain mercury which is harmful to the environment. Recycle old UV lamps at an authorized center.

ALARM CIRCUIT

The Model AT 1500 system is equipped with a current sensing circuit to monitor the UV lamp performance. If the UV lamp output drops below an acceptable level for proper disinfection, the alarm circuit will turn off the green light on the enclosure. When connected to the Service Pro control center, the service provider can be immediately notified that maintenance to the UV system is required. For more information regarding connection of the Model AT 1500 UV disinfection system alarm to a Service Pro control center, please refer to the Service Pro Control Center with MCD Technology Installation and Operation Instructions.

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Contract Number: Cotton

SERVICE AND MAINTENANCE CONTRACT

1. **Parties.** This contract ("Agreement" or "Contract") is between Meinco Septic Systems, Inc., ("Meinco") and Chelsey Cotton, ("Client"), referred to individually as a "Party" and collectively as the "Parties."

2. **Service Location.** This is a Contract for septic system service and maintenance services provided by Meinco for Client located at 472 Grant 65, Sheridan, AR 72150 hereinafter referred to as the "Service Site."

3. **Service Fees.** Client agrees to pay Meinco one-hundred ($130) for septic system service and maintenance specifically work performed every 3 months and described more specifically below (hereinafter referred to as "Service Work"). Meinco and Client agree that the invoiced amount is good consideration for this Contract and the services set forth below and reflects the bargained for terms of this agreement.

4. **Materials Charges.** During regular maintenance Meinco will replace materials necessary to keep the septic system operating efficiently (chlorine tablets, UV light bulbs, floats, filters, etc.). Meinco and Client agree that Meinco shall submit to client the costs of maintenance parts and materials and Client will promptly pay the same.

5. **Laboratory Fees.**
   A) ☐ This paragraph is inapplicable.
   B) ☑ Client agrees that Meinco will use a third party laboratory, Environmental Services Inc, for any sampling that is required under this Contract. In such event, Meinco shall submit to Client a laboratory fee of $150 and Client will promptly pay the same.

6. **Services Provided.** Meinco agrees to provide the following Service Work to the Client and the Service Site:

   A) Maintenance requirements, including review of system components and their working condition, monitoring of solid levels to determine system efficiency, and periodic cleaning of system filters or media.

   B) I. ☑ This paragraph is inapplicable.
   II. ☐ Necessary sampling and submission of paperwork every ___ month(s) or as required to comply with the Arkansas Department of Health Onsite Maintenance Program.

   C) Necessary paperwork every 6 month(s) as required to comply with the Arkansas Department of Health and/or the Arkansas Department of Environmental Quality.

   D) I. ☐ This paragraph is inapplicable.
   II. ☑ Sampling of discharge every 6 month(s) in coordination with a 3rd party laboratory for required laboratory tests.

7. **Contract Duration.** This contract shall be for a period of 24 month(s) from the date this Contract is executed by the parties on page 2

8. **Flow Requirements.** This contract shall be null and void if septic system flow exceeds 500 gallons per day.

9. **Modification to System.** If the septic system is modified, abused, mis-used, or altered, then Meinco's responsibility to service or maintain the septic system is terminated. Meinco may remedy such conditions by replacing parts or correcting defects. If Meinco makes such changes to the septic system, then it may charge to client the costs of repairs, modifications, parts, and labor. Meinco may, at its discretion, seek payment in advance of making any repairs or modifications to the septic system. In such event, Meinco shall not be responsible for any damage or adverse effects for its delay in making repairs or modifications to the septic system.

10. **Access to System.** Client agrees to provide Meinco access to the septic system as well as its parts and components.

11. **Termination by Client.** Client may terminate this contract by providing thirty (30) days written notice to Meinco.

12. **Termination by Meinco.** Notwithstanding, and in addition to, any other provision or term in this Contract, **MEINCO MAY TERMINATE THIS CONTRACT AT ANY TIME AND WITHOUT PREVIOUS NOTICE TO CLIENT.**

13. **Solid Removal.** Solid removal is not a covered service and shall incur an additional fee. If Meinco removes solids from the septic system, then it may charge to client the costs of solid removal. In any event, Meinco shall not be responsible for any damage or adverse effects for any delay in removing solids.

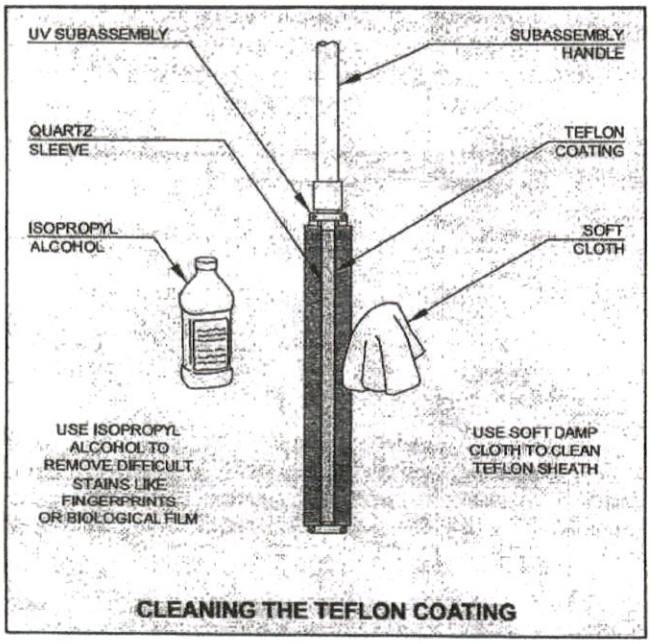
14. **Indemnity.** To the fullest extent permitted by law, Client shall indemnify, hold harmless, and defend Meinco and any agent or employees of Meinco from and against all injuries, claims, damages, losses, and expenses, including, but not limited to, attorneys' fees, arising directly or indirectly out of the obligations herein undertaken or resulting out of operations related to the Service Work or Service Site conducted by Meinco, Meinco's agents, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such injury, claim damage, losses, or expenses is caused in part by a party indemnified. Such obligation shall not negate, abridge, or otherwise reduce the rights or obligations of indemnity which would otherwise exist to a party or person described in this paragraph.

AT 1500 UV DISINFECTION INSTALLATION AND OPERATION (Cont.)

MAINTENANCE AND SERVICE

UV protective eyewear must be worn during service or any time the lamp may be illuminated. It is recommended that the subassembly be removed and serviced every six months to insure proper disinfection. To inspect and clean the Teflon coating:

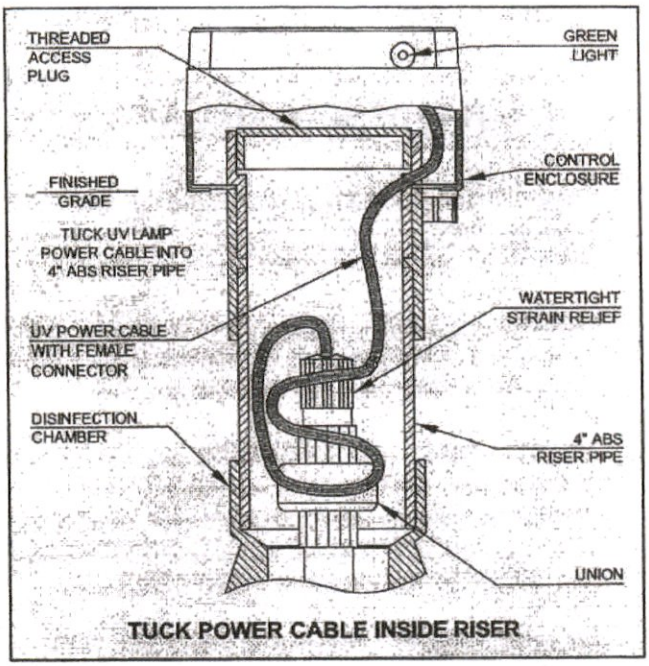
1. Turn off power to the UV system at the disconnect switch and/or main service panel. Confirm that the green light on the side of the enclosure is off.
2. Remove the control enclosure cover and access plug.
3. Carefully remove the UV subassembly from the disinfection chamber
4. Inspect the quartz sleeve and Teflon coating for signs of damage or an accumulation of biological film. If the quartz sleeve has been damaged, the UV subassembly must be replaced. If biological film is present on the surface of the Teflon coating, the coating must be cleaned to insure proper disinfection.
5. Use a soft damp cloth to carefully and thoroughly clean the Teflon coating.
6. Use isopropyl alcohol on a soft cloth to carefully remove difficult stains like fingerprints or biological film.
7. Remove all accumulated solids from the disinfection chamber using a vacuum or service pump.



CLEANING THE TEFLON COATING

It is recommended that the UV lamp be replaced every two years to insure proper disinfection of the treatment system effluent. The green light on the side of the control enclosure will no longer illuminate when the lamp needs replaced. To replace the lamp:

1. Repeat steps 1, 2 and 3 above.
2. Disassemble the union on the subassembly handle and remove the UV lamp using the power cable.
3. Disconnect the UV lamp from the UV power cord by rotating the twist lock collar ¼ turn.



TUCK POWER CABLE INSIDE RISER

4. Connect new lamp and carefully lower into the UV subassembly. Make sure the lamp is fully seated in the quartz sleeve.
5. Reassemble union and tighten strain relief.
6. Lower the subassembly into the disinfection chamber.
7. Reinstall the threaded access plug into the riser.
8. Reinstall the enclosure cover, insuring that the safety interlock post is aligned with the safety interlock switch. Tighten the four screws to insure a watertight seal.
9. Turn on power at the disconnect switch or main service panel. Verify that the green light on the side of the control enclosure is illuminated.

NOTE: UV lamps contain mercury which is harmful to the environment. Recycle old UV lamps at an authorized center.

ALARM CIRCUIT

The Model AT 1500 system is equipped with a current sensing circuit to monitor the UV lamp performance. If the UV lamp output drops below an acceptable level for proper disinfection, the alarm circuit will turn off the green light on the enclosure. When connected to the Service Pro control center, the service provider can be immediately notified that maintenance to the UV system is required. For more information regarding connection of the Model AT 1500 UV disinfection system alarm to a Service Pro control center, please refer to the Service Pro Control Center with MCD Technology Installation and Operation Instructions.

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Contract Number: Stubbs

SERVICE AND MAINTENANCE CONTRACT

1. **Parties.** This contract ("Agreement" or "Contract") is between Meinco Septic Systems, Inc., ("Meinco") and Courtnie Stubbs, ("Client"), referred to individually as a "Party" and collectively as the "Parties."

2. **Service Location.** This is a Contract for septic system service and maintenance services provided by Meinco for Client located at 173 Walker Drive, Sheridan, AR 72135, hereinafter referred to as the "Service Site."

3. **Service Fees.** Client agrees to pay Meinco one-hundred ($ 130) for septic system service and maintenance specifically work performed every 3 months and described more specifically below (hereinafter referred to as "Service Work"). Meinco and Client agree that the invoiced amount is good consideration for this Contract and the services set forth below and reflects the bargained for terms of this agreement.

4. **Materials Charges.** During regular maintenance Meinco will replace materials necessary to keep the septic system operating efficiently (chlorine tablets, UV light bulbs, floats, filters, etc.). Meinco and Client agree that Meinco shall submit to client the costs of maintenance parts and materials and Client will promptly pay the same.

5. **Laboratory Fees.**
   A) ☐ This paragraph is inapplicable.
   B) ☑ Client agrees that Meinco will use a third party laboratory, Environmental Services Inc, for any sampling that is required under this Contract. In such event, Meinco shall submit to Client a laboratory fee of $ 150 and Client will promptly pay the same.

6. **Services Provided.** Meinco agrees to provide the following Service Work to the Client and the Service Site:

   A) Maintenance requirements, including review of system components and their working condition, monitoring of solid levels to determine system efficiency, and periodic cleaning of system filters or media.

   B) I. ☑ This paragraph is inapplicable.
   II. ☐ Necessary sampling and submission of paperwork every ___ month(s) or as required to comply with the Arkansas Department of Health Onsite Maintenance Program.

   C) Necessary paperwork every 6 month(s) as required to comply with the Arkansas Department of Health and/or the Arkansas Department of Environmental Quality.

   D) I. ☐ This paragraph is inapplicable.
   II. ☑ Sampling of discharge every 6 month(s) in coordination with a 3rd party laboratory for required laboratory tests.

7. **Contract Duration.** This contract shall be for a period of 24 month(s) from the date this Contract is executed by the parties on page 2

8. **Flow Requirements.** This contract shall be null and void if septic system flow exceeds 500 gallons per day.

9. **Modification to System.** If the septic system is modified, abused, mis-used, or altered, then Meinco's responsibility to service or maintain the septic system is terminated. Meinco may remedy such conditions by replacing parts or correcting defects. If Meinco makes such changes to the septic system, then it may charge to client the costs of repairs, modifications, parts, and labor. Meinco may, at its discretion, seek payment in advance of making any repairs or modifications to the septic system. In such event, Meinco shall not be responsible for any damage or adverse effects for its delay in making repairs or modifications to the septic system.

10. **Access to System.** Client agrees to provide Meinco access to the septic system as well as its parts and components.

11. **Termination by Client.** Client may terminate this contract by providing thirty (30) days written notice to Meinco.

12. **Termination by Meinco.** Notwithstanding, and in addition to, any other provision or term in this Contract, **MEINCO MAY TERMINATE THIS CONTRACT AT ANY TIME AND WITHOUT PREVIOUS NOTICE TO CLIENT.**

13. **Solid Removal.** Solid removal is not a covered service and shall incur an additional fee. If Meinco removes solids from the septic system, then it may charge to client the costs of solid removal. In any event, Meinco shall not be responsible for any damage or adverse effects for any delay in removing solids.

14. **Indemnity.** To the fullest extent permitted by law, Client shall indemnify, hold harmless, and defend Meinco and any agent or employees of Meinco from and against all injuries, claims, damages, losses, and expenses, including, but not limited to, attorneys' fees, arising directly or indirectly out of the obligations herein undertaken or resulting out of operations related to the Service Work or Service Site conducted by Meinco, Meinco's agents, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such injury, claim damage, losses, or expenses is caused in part by a party indemnified. Such obligation shall not negate, abridge, or otherwise reduce the rights or obligations of indemnity which would otherwise exist to a party or person described in this paragraph.

15. **Assignment.** Client agrees that even though this is a contract for services. Meinco may assign this Contract to any third party without written notice to Client.

16. **Bilateral Contract.** Meinco and client specifically agree that Client is seeking Meinco's promise to perform and not its performance.

17. **Claims Against Meinco.** Client shall give Meinco written notice of all claims within five (5) days of Client's knowledge of facts giving rise to the event for which claim is made. Otherwise, such claims shall be deemed waived by Client. All unresolved claims, disputes, and other matters in question between Meinco and Client shall be resolved in the manner provided for in this Agreement.

18. **Rights Upon Breach.** If Client breaches this Agreement with Meinco, Meinco may stop all work, including all Service Work. Additionally, Client will be liable to Meinco for consequential, incidental, and reliance damages as well as attorneys' fees and court costs. Such liability upon Client shall extend to petitions for and orders of contempt as well as any attempts by Meinco to collect upon any debt or damages owed to it by Client, including those entered by court of law or other dispute resolution proceeding.

19. **Direct Discussion.** If a dispute arises out of or relates to this Agreement, the Parties shall endeavor to settle the dispute through direct discussion before advancing to any dispute resolution proceeding.

20. **Joint Drafting.** The Parties expressly agree that this Agreement was jointly drafted and that this Agreement shall be construed neither against nor in favor of either Party. Instead, this Agreement shall be construed in a neutral manner.

21. **Choice of Law.** The Parties expressly agree that any dispute or claim filed or heard in any jurisdiction concerning or relating to this Agreement or worked performed as a result of this Agreement shall be governed by the laws of the State of Arkansas.

22. **Forum Selection and Choice of Venue.** The Parties expressly agree that any dispute or claim arising from, filed, or heard concerning or relating to this Agreement or work performed as a result of this Agreement shall be heard in Saline County, Arkansas, and no other forum. If this clause is penetrated and the hearing concerning the dispute removed to the United States federal court system, then the Parties expressly agree that the dispute shall be heard in the United States District Court for the Eastern District of Arkansas, Western Division, at the Richard Sheppard Arnold United States Courthouse in Little Rock, Arkansas.

23. **Waiver of Agreement Terms.** Meinco, at its sole discretion and leisure, may waive any term in this Agreement. Such waiver shall not, under any conditions or circumstances, constitute a modification of this Agreement. Additionally, such wavier shall not, under any conditions or circumstances, constitute a course of performance, course of dealings, or trade usage between Meinco and Client. Any waiver by Meinco shall be limited to a single incident or event. No waiver of any term of this Agreement is valid unless it is in writing, signed by Meinco, and attached to this Agreement as an addendum. It is the responsibility and duty of Client to draft any written waiver and to present it to Meinco for Meinco's approval and signature.

24. ***Force Majeure.*** Neither Party shall be in breach of its obligations under this Agreement (other than payment obligations) or incur any liability to the other Party for any losses or damages of any nature whatsoever incurred or suffered if and to the extent that the other party it is prevented from carrying out its obligations by, or such losses or damages are caused by, a *force majeure* event. For purposes of this paragraph, the failure of the state of Arkansas or the United States of America to act according to current practices, procedure, or law at the time of the making of this Contract shall be considered a *force majeure* event. Such event by the government shall be in addition to any current or commonly accepted definition of *force majeure* event.

25. **Merger and Integration.** Meinco and Client agree that this Agreement represents a full, final, and complete memorial of their Agreement for the Service Work and that this Agreement does not rely upon any term or promise not otherwise specified within the four corners of this Agreement.

26. **No Oral Modification.** Meinco and Client agree that this Agreement shall not be subject to oral modification. The Parties agree that any modification made or agreed to by the Parties shall be in writing, signed by both Parties, and attached to this Agreement as an Addendum.

By signing this Agreement below, I indicate that I have read this Agreement and its terms, consisting of two (2) pages, excluding any Addendum or Addenda, and that these express terms are both acceptable and agreeable to me. I further declare that these terms do not represent an undue hardship, are not illusory, and are not unconscionable as I have expressly bargained for these terms in consideration of entering into this Contract for the value specified in paragraph three (3).

Derek

Meinco Septic Systems, Inc.

10/21/2021

Date

Client

12/9/21

Date

Arkansas Department of Health
4815 West Markham, Slot 46
Little Rock, Arkansas 72205-3867

MEMORANDUM OF AGREEMENT

SUBJECT: ONSITE WASTEWATER SYSTEM APPLICATION

This is an agreement that the onsite wastewater system installed on this property has been permitted under authority of Act 402 of 1977 and by the Arkansas Department of Health with the understanding that the following provisions are met:

1. Onsite Wastewater Systems requiring a Monitoring Contract with a Certified Monitoring Personnel are Holding Tanks, Experimental Systems (i.e. Reduced Absorption Areas, *ABGs), and Drip Dispersal Systems. *Aerobic Biological Generators – Commercial applications only, residential applications must follow manufacturers' service contract requirements.

2. The property owner assumes all responsibility for the proper operation of the onsite wastewater system.

3. The property owner must maintain a monitoring contract with a licensed Certified Monitoring Personnel for the life of the system and retain Onsite Wastewater System Assessments (EHP-71), on file, for at least five (5) years.

4. The Arkansas Department of Health has no responsibility in the operation and maintenance of such systems.

5. That the Arkansas Department of Health may monitor the system as to its operation capabilities.

6. That the Arkansas Department of Health is granted permission to make such inspections as deemed necessary.

7. Subsurface systems with flows ≥3000 gpd and all surface discharging systems require the owner to file an additional permit application with the Arkansas Department of Environmental Quality (ADEQ).

8. **That, on the sale of the property, the owner of the property must disclose to the perspective buyer notice of this agreement and any permit requirements. The buyer is to sign memoranda, contracts or permit name change forms and submit these documents to the appropriate regulatory agency.**

SIGNED: _____ SIGNED: _____
(Property Owner) (Health Department)

DATE: 12/9/21 DATE: 12-29-2021

EHP-35 (R 1/13)

YOUR TRIP TO:

548 County Road 65, Sheridan, AR 72150-71...

Scan this QR code for directions on your mobile device:

5 MIN | 2.4 MI

Est. fuel cost: $0.26

Trip time based on traffic conditions as of 3:35 PM on December 16, 2021. Current Traffic: Moderate

Print a full health report of your car with HUM vehicle diagnostics **(800) 906-2501**

1. Start out going **east** on W Vine St/AR-35 toward N Rose St.

   Then 0.32 miles — 0.32 total miles

2. Take the 3rd **right** onto N Rock St/US-167 Bus S/AR-35.

   N Rock St is just past N Main St.

   If you are on School St and reach Longbell Dr you've gone about 0.1 miles too far.

   Then 1.51 miles — 1.82 total miles

3. Turn **left** onto County Road 65.

   County Road 65 is just past Janie Dr.

   If you reach County Road 167054 you've gone about 0.1 miles too far.

   Then 0.41 miles — 2.23 total miles

4. Go **straight**.

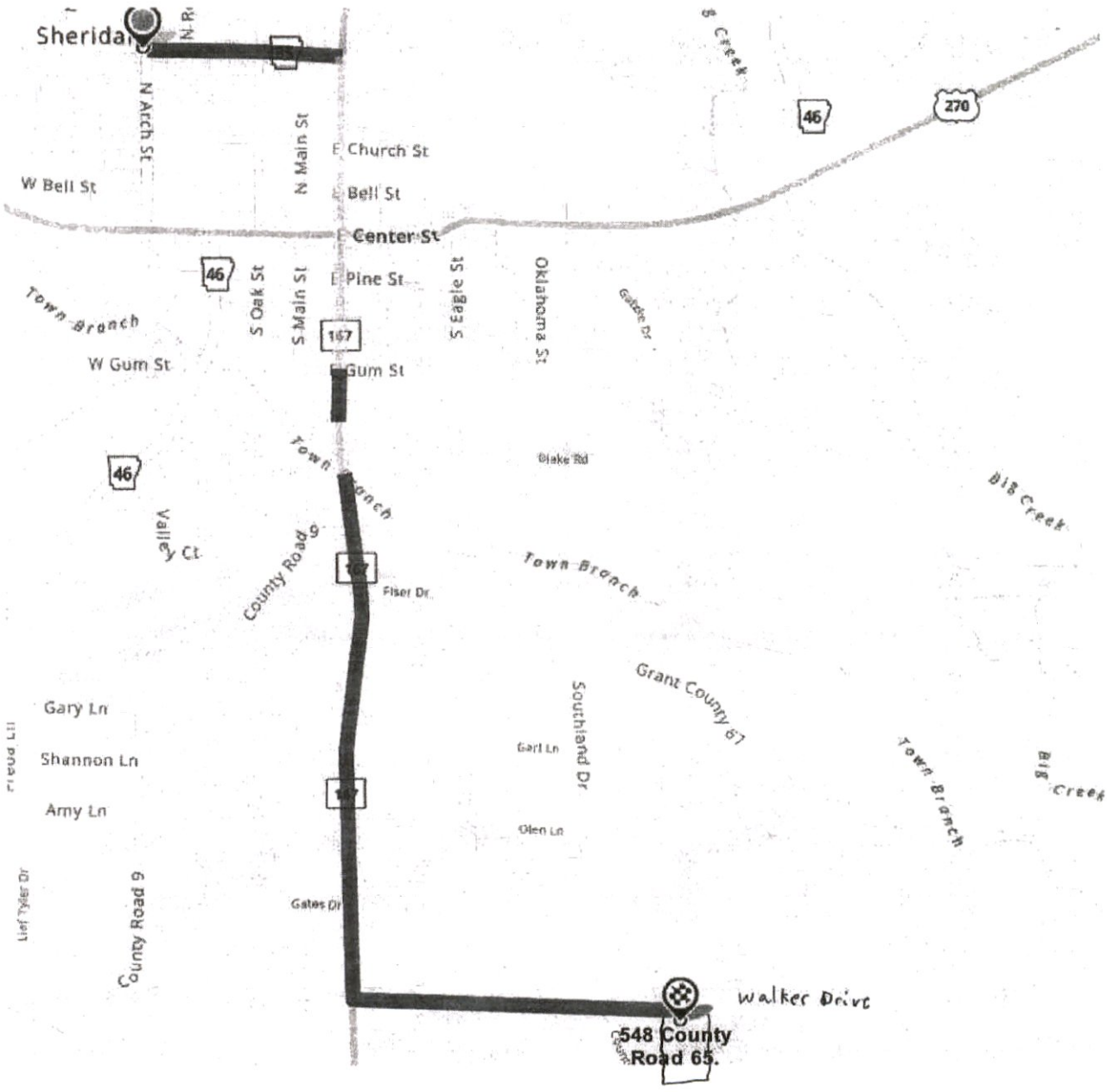
   Then 0.13 miles Turns into Walker — 2.36 total miles

5. 548 County Road 65, Sheridan, AR 72150-7156, 548 COUNTY ROAD 65.

   If you reach Grant County 67 you've gone about 0.4 miles too far.

Save to My Maps

Use of directions and maps is subject to our Terms of Use. We don't guarantee accuracy, route conditions or usability. You assume all risk of use.


Sheridan
N Arch St
N Main St
E Church St
W Bell St
E Bell St
E Center St
E Pine St
S Oak St
S Main St
S Eagle St
Oklahoma St
Gazebo Dr
Town Branch
W Gum St
E Gum St
Blake Rd
Big Creek
Valley Ct
County Road 9
Fiser Dr
Town Branch
Grant County 67
Southland Dr
Gary Ln
Shannon Ln
Amy Ln
Garl Ln
Glen Ln
Gates Dr
Lief Tyler Dr
County Road 9
Town Branch
Big Creek
walker Drive
548 County Road 65.
46
270
167


Stubbs Residence
173 Walker Drive, Sheridan 72150
POE
65
Legend
POD
Google Earth
N
100 ft