4730-20-2169

INFO - 15

SUBSURFACE WASTEWATER INSPECTION FORM

System Manager:
TCW Wastewater Management, Inc.
P.O. Box 788, Monroe, NC 28111
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Date of Inspection: 5/29/18
___ Initial ✓ 6 month ___ 12 month
___ Follow-up ___ Service call ___ Other

County	System Type	Drainfield
Iredell-S	LCPM	✓ On-site ___ Off-site

Time: _____ Initials BR - BS

Name and Address of Owner:
Julie Archer
176 Timberlake Dr
Troutman NC 28166

Location of System / Drainfield (off-site)
Falls Cove @ Parkwood
Lot # 634-636 Phase 6 Subdivision _____

Compliance Status: ✓ Compliant ___ Non-Compliant ___ Malfunctioning
Copies: ✓ Homeowner ___ DEH ___ Builder ___ Owner's Association ___ Developer

√ = Satisfactory M = Marginal X = Unsatisfactory N = Not Evaluated NA = Not Applicable

Septic Tank: size: 1500 gallons 1000 = 53" LL 1500 = 43" LL 2000 = 49" LL
- Tank risers are accessible ✓ ▶ Buried ___ / ___"
- Riser Type EZ Height 24" ✓ Diameter 20"
- No odors present ✓
- There are no Infiltration problems X ▶ Surface ___ Subsurface ✓
- Surface water is being diverted away X
- Tanks and accesses are structurally sound ✓
- Inlet pipe at proper angle yes ✓ Can't observe ___ ✓
- Inlet tee is in good condition ___ N/A ✓
- Inlet Tee is cleaned today ___ N/A ✓
- Effluent Filter clogging percentage (<10,25,50,75,100) 50 % N/A ___ Type: _____
- Effluent Filter was cleaned No ___ Yes ✓ N/A ___
- Effluent Filter is in good condition ✓ N/A ___
- Effluent Filter Canister is in good condition ✓ N/A ___
- Effluent Filter is snapped in place ✓ N/A ___
- Effluent Pipe at proper angle ✓
- Water level is at proper level No ___ Yes ✓ Freeboard 8"

Inlet End of Tank
Scum Level 1" Sludge Level 4"
Scum plus Sludge level 5" (SST)
SST 5"/ liquid Depth 43" x 100 = 12 %
Tank Needs Pumping: yes ___ No ✓
< 30 % = No > 30 % = Yes

Filter End of Tank
Scum Level 0" Sludge Level 9"

Sample of total water column
Three distinct zones: good ✓ medium ___ murky ___

Bacteria:
Added at inspection: Pulp ___pks Regular ___pks
Left with homeowner: Pulp ___pks Regular ___pks

Effluent Dosing Station: size: 1000 gallons 1000=50"=20 GPI 1500=52"=28 GPI 2000=59"=34 GPI
- Tank Riser is at proper height ✓
- Riser Type EZ Height 36" Diameter 24" ✓
- No odors present X
- No infiltration issues: Surface ___ Subsurface ✓ X
- Required pumps are present & operating properly ✓ Amp. Draw _____
- High water alarm is operating properly ✓ Can't Observe _____
- Floats, pipes, valves, disconnects are in good condition ✓
- Pump is installed on block or raised platform (min. 6 inches) ✓ N/A ___
- Pump float is not resting on top of pump ✓ N/A ___
- Control panel enclosure/components are in good condition ✓
- TCW sticker is placed on front door of Panel ✓
- Duct Seal is present in all conduit openings ✓
- Effluent appears clear and free of solids ✓
- Telemetry / Dialer is working properly ___ N/A ✓
- Pressure Bell settings: Off 4", On 10"-12", Tele 16", Alarm 22"

Scum Level / Sludge Level
Scum Level 0" plus Sludge Level 0"
Total Scum+Sludge 0"
Tank Needs Pumping: yes ___ No ✓ (> 4" yes)

Filter Cleaned today No ✓ Yes ___ N/A ___
Filter is in good condition ✓ N/A ___

Elapsed Time Readings:
Pump #1- C _____ - P _____ = Usage _____ hrs
Usage _____ / days _____ = Use Per Day _____ hrs
Hrs _____ x 60 = _____ min.x GPM _____ = _____ GPD
Average ___ (<275) Above average ___ (>275) Very high ___ (>350)
Pump #1- CC _____ - PC _____ = Useage _____

Grinder Lift Station: Authorized to Inspect ___ Not Authorized to Inspect ___
- Tank Riser is at proper height ___ ▶ Buried ___ / ___"
- No odors present ___
- No infiltration issues: ___ ▶ Surface ___ Subsurface ___
- Required pumps are present & operating properly N/A
- High water alarm is operating properly ___ Can't Observe ___
- Floats, pipes, valves, disconnects are in good condition ___
- Pump float is not resting on top of pump ___
- Control panel enclosure/components are in good condition ___

Grease Trap Section N/A ___ size: _____ gallons 1000=52" LL 1500=43" LL
- Tank risers are accessible ___ ▶ Buried ___ / ___"
- No odors present ___
- There are no Infiltration problems ___ ▶ Surface ___ Subsurface ___
- Surface water is being diverted away ___
- Tanks and accesses are structurally sound ___
- Inlet pipe at proper angle N/A
- Inlet tee is in good condition ___
- Inlet Tee is cleaned today ___
- Effluent Filter clogging percentage ___ %
- Effluent Filter was cleaned No ___ Yes ___
- Effluent Filter is in good condition ___
- Effluent Filter Canister is in good condition ___
- Effluent Filter is snapped in place ___
- Effluent Pipe at proper angle ___
- Water level is at proper level No ___ Yes ___ Freeboard ___"

Scum Level
Inlet ___" Outlet ___"
Tank Needs Pumping: yes ___ No ___ (> 2 " yes)

Sample of total water column
Three distinct zones: good ___ medium ___ murky ___

Ground Absorption Fields:

No odors present	✓
There is no evidence of effluent surfacing	✓
Vegetative cover is maintained properly	✓
Field Protected from traffic/destructive uses	✓
Surface water is being diverted away	✓
Lines are not ponding or holding water	✓
No low areas or settling occurring	✓
Line cover (soil) is adequate	✓

Drop boxes used in lieu of Distribution box No ____ Yes ✓
Distribution box(es) in good condition ✓
Distribution box(es) in proper adjustment ✓
▶ If ponding is occuring, how much? ____"
Repair area is properly reserved, maintained ____

Pressure Manifold Systen # of 1/2" taps 5 = 33.5 GPM (Formula: @ 3 feet head - Taps X 6.71 GPM; @ 2 feet head - Taps X 5.48)

Manifold vault, valves, piping are in good condition	✓
No evidence of leakage, blockage in discharge lines	✓
No evidence of effluent backing up into box	✓
Pressure head is properly adjusted	✓

Replacement needed: Lid ____ Valves ____/____ qty; Repair needed: Box ____
Deep cleaning needed ____ Corrected Today ____
Corrected Today ____

Low Pressure Pipe System: N/A

Turn-ups/cleanouts/valves are intact and accessible ____
Laterals are free of excess solids ____
Laterals were flushed this inspection No ____ Yes ____
Zone valves are operating properly ____
Pressure head is properly adjusted ____
Turn-up buckets are dry inside ____
Valve box or buckets are dry inside ____

Corrected Today ____
Jetting necessary ____
Corrected Today ____
Corrected Today ____

Need extensions? Yes ____/____"
CPDR = ____GPM; Efficiency = ____%
Need replacing? Yes ____/____ qty
Buckets needs replacing? Yes ____/____ qty
Buckets needs replacing? Yes ____/____ qty

Design Pump Delivery Rate ____ GPM Design Dose ____ Gallons

Pump Tank Size (Gallons): ✓ 1000 ____ 1500 ____ 2000
1000 Gallon = 50" = 20 GPI 1500 Gallon = 52" = 28 GPI 2000 Gallon = 59" = 34 GPI
Level End Dose ____ - ____ Level Begin Dose = Difference ____ Inches X ____ GPI = Current Dose ____ Gallons
Level End (large #) 47 - 43.75 Level Begin (small #) = 3.25 X 20 GPI = 65 ÷ 3 Min. Run Time = 21.6 GPM (CPDR)
Current GPM (CPDR) ____ ÷ ____ Design GPM (DPDR) = ____ X 100 = ____ % Efficiency

Valves	Lines	Design	Observe	Adjusted	Valves	Lines	Design	Observe	Adjusted

Recommendations to Owner:

- All risers are leaking water into tanks. Need to be sealed (see photos)
- Downspouts Need to be piped past tank area.
- All the rain along with the infiltration issue was cause of the alarm you had

Thanks

Signature of "ORC" Brandon Long