MISSOURI DEPARTMENT OF NATURAL RESOURCES
PUBLIC DRINKING WATER PROGRAM

COMPLIANCE & OPERATIONAL INSPECTION

CLASS 2 INSPECTION FORM

INTERVIEWED >	Jim Heppler - Operator	DATE 2/5/2015
ID NUMBER MO3071205	SYSTEM NAME Cedar Glen Condominiums	COUNTY Camden

ADDRESS | CITY | STATE | ZIP CODE | TELEPHONE NUMBER

COMMENTS AND RECOMMENDATIONS FOR CORRECTION
The following comments are referenced to the applicable checklist items attached to this form.

207- Abandoned well has not been properly plugged
208- PWS needs a second well (serves more than 500 people)
227- Well casing and piping needs to be painted
229- PWS does not have a source of emergency power
234- PWS has not established a well water level monitoring program
429- Exterior of storage tank needs to be cleaned & painted
430-431 - Use of hydropneumatic storage not recommended as the only storage for systems serving more than 50 connections
435- PWS has not established a tank inspection & cleaning program
506- Flush hydrants are needed
507- Approximately 40 of the 214 connections aren't metered
509- Plastic valves greater than 3 inches don't meet AWWA standards.

FREE & TOTAL CHLORINE RESIDUAL 0 & 0 mg/l ☑ Sample Collected & LOCATION Bldg 306 (end)

INSPECTOR'S SIGNATURE | TITLE Env. Spec. III

MO 780-1617 (2-01)

COMPLIANCE & OPERATIONAL CHECKLIST

Fill in the appropriate box and if "C", explain in the comment section on the front of this form.

☐ NA **ITEM #1 ADMINISTRATION**

C ok NA

- ☐ ☑ ☐ **101. Permit to Dispense status** 10CSR60-3.010
- ☐ ☑ ☐ **102. Construction permits** 10CSR60-3.010(1)(A)
- ☐ ☑ ☐ **103. Final approvals** 10CSR60-3.010(1)(B)
- ☐ ☐ ☑ **104. Owner supervised program** 10CSR60-10.010(2)(C)
- ☐ ☑ ☐ **105. Certified Chief Operator** 10CSR60-14.010(4)
- ☐ ☑ ☐ **106. Emergency operations plan** 10CSR60-12.010
- ☐ ☑ ☐ **107. Lead ban ordinance** 10CSR60-10.040
- ☐ ☑ ☐ **108. Backflow prevention program** 10CSR60-11.010
- ☐ ☑ ☐ **109. Backflow device records** 10CSR60-11.010(7)(B)
- ☐ ☑ ☐ **110. Primacy fees** 10CSR60-16.010
- ☐ ☑ ☐ **111. Laboratory & administration fees** 10CSR60-16.030
- ☐ ☑ ☐ **112. Coliform sampling plan** 10CSR60-4.020(1)(A)
- ☐ ☑ ☐ **113. Pb/Cu Sampling plan** 10CSR60-15.070
- ☐ ☐ ☑ **114. Turbidity reporting** 10CSR60-7.010(4)
- ☐ ☐ ☑ **115. Disinfection reporting** 10CSR60-7.010(5)
- ☐ ☑ ☐ **116. Private lab coliform results** 10CSR60-7.010
- ☐ ☑ ☐ **117. Public notification requirements** 10CSR60-8.010
- ☐ ☐ ☑ **118. Exemption/ variance requirements** 10CSR60-6.030
- ☐ ☐ ☑ **119. Sludge management permit or plan** 10CSR20-8.170
- ☐ ☐ ☑ **120. NPDES Permit on plant discharge** 10CSR20-6.010(5)
- ☐ ☐ ☑ **121. Monitoring reports due by 10th** 10CSR60-7.010(1)
- ☐ ☑ ☐ **122. Reporting regulation violations** 10CSR60-7.010(2)
- ☐ ☐ ☑ **123. Reporting DBP & IESWTR** 10CSR60-7.010(6)
- ☐ ☐ ☑ **124. Enhanced Filtration & Disinf. Reporting** 10CSR60-7.010(7)
- ☐ ☐ ☑ **125. DBP Monitoring Plan** 10CSR60-4.090(3)
- ☐ ☑ ☐ **126. Reporting for Lead & Copper** 10CSR60-7.020(4)
- ☐ ☑ ☐ **127. Coliform results (5 yrs)** 10CSR60-9.010(1)(A)

C ok NA

- ☐ ☑ ☐ **128. Operational records** 10CSR60-9.010(1)(A)
- ☐ ☑ ☐ **129. Chemical results (10 yrs)** 10CSR60-9.010(1)(A)
- ☐ ☑ ☐ **130. Violation actions (3 yrs)** 10CSR60-9.010(1)(B)
- ☐ ☑ ☐ **131. Inspection Reports (10 yrs)** 10CSR60-9.010(1)(C)
- ☐ ☑ ☐ **132. Variance/exemption records (5 yrs)** 10CSR60-9.010(1)(D)
- ☐ ☑ ☐ **133. CCR** CFR 141.153
- ☐ ☑ ☐ **134. Any system records requested** 10CSR60-9.010(2)

- ☐ ☑ ☐ 135. Updated distribution map
- ☐ ☑ ☐ 136. Individual valve records
- ☐ ☐ ☑ 137. Individual fire hydrant records
- ☐ ☑ ☐ 138. Individual flush hydrant records
- ☐ ☑ ☐ 139. Main Brk/Leak Repair Program
- ☐ ☑ ☐ 140. Valve Maintenance Program
- ☐ ☑ ☐ 141. Main Flushing Program
- ☐ ☑ ☐ 142. Operational/Maint. records
- ☐ ☐ ☐ 143. Other _____

ITEM #2 SOURCE

☐ NA **Groundwater**

C ok NA

- ☐ ☑ ☐ **201. Source of supply approved** 640.115(1)
- ☐ ☑ ☐ **202. Well driller's permit (drilled after 1987)** 10CSR23-1.090
- ☐ ☑ ☐ **203. Construction requirements** 10CSR60-10.010
- ☐ ☑ ☐ **204. Sanitary construction defects** 10CSR60-4.080(5)
- ☐ ☑ ☐ **205. Siting requirements** 10CSR60-10.020
- ☐ ☑ ☐ **206. GWUDI determination** 10CSR60-4.055(1)
- ☑ ☐ ☐ **207. Plugging abandoned wells** 10CSR23-3.110

- ☑ ☐ ☐ 208. Adequate number of wells
- ☐ ☑ ☐ 209. Weather protection
- ☐ ☑ ☐ 210. Security
- ☐ ☑ ☐ 211. Floor Drain
- ☐ ☑ ☐ 212. Heating/venting/dehumidification
- ☐ ☑ ☐ 213. Lighting
- ☐ ☑ ☐ 214. Chemicals in well house
- ☐ ☑ ☐ 215. Top of well at least:
  - *4' above flood level
  - *above floor 12" min.
  - *above ground 18" min.
  - *approved casing & grout

C ok NA

- ☐ ☐ ☑ 216. Grand fathered
- ☐ ☑ ☐ 217. Vent screen/down turned
- ☐ ☑ ☐ 218. Vent 18" above floor
- ☐ ☑ ☐ 219. Vent adequate size
- ☐ ☑ ☐ 220. Pump capacity
  - _____ gpm @ _____ psi
  - _____ gpm @ _____ psi
- ☐ ☑ ☐ 221. Well meter, operable
- ☐ ☑ ☐ 222. Drawdown measuring equip.
- ☐ ☑ ☐ 223. Pressure Gauge-operable
- ☐ ☑ ☐ 224. Shutoff Valve
- ☐ ☑ ☐ 225. Check Valve
- ☐ ☑ ☐ 226. Wellhead sealed
- ☑ ☐ ☐ 227. Piping condition
- ☐ ☑ ☐ 228. Raw water sample tap past check valve
- ☑ ☐ ☐ 229. Auxiliary power supply
- ☐ ☐ ☑ 230. Pitiless Unit, no adapter
- ☐ ☐ ☑ 231. Valve vault adequate size, drained, & provide safe access
- ☐ ☐ ☑ 232. Vertical Shaft Turbine Pumps Air Release - screened, down turned, 18" above floor
- ☐ ☑ ☐ 233. Security
- ☑ ☐ ☐ 234. Other DRAWDOWN READINGS

☒ NA **Reservoirs**

C ok NA

- ☐ ☐ ☐ **235. Source of supply approved** 640.115(1)
- ☐ ☐ ☐ **236. Dam safety permit (dams >35' tall)** 10CSR22-2.020(4)
- ☐ ☐ ☐ **237. Dam maintenance & monitoring** 10CSR22-3.030(1)(B)
- ☐ ☐ ☐ **238. Recreational use plan** 10CSR60-10.030
- ☐ ☐ ☐ **239. Siting requirements** 10CSR60-10.020

- ☐ ☐ ☐ 240. Quality of water
- ☐ ☐ ☐ 241. Capacity adequate for drought
- ☐ ☐ ☐ 242. Does system have storage curves
- ☐ ☐ ☐ 243. Stadial marker & weekly records
- ☐ ☐ ☐ 244. Siltation control structure condition
- ☐ ☐ ☐ 245. Watershed management plan
- ☐ ☐ ☐ 246. Algae control program
- ☐ ☐ ☐ 247. Dam maintenance (mowing, brush, rodents)
- ☐ ☐ ☐ 248. Erosion control
- ☐ ☐ ☐ 249. No flow obstructions in spillway entrance
- ☐ ☐ ☐ 250. Condition of spillway
- ☐ ☐ ☐ 251. Spillway discharge condition

COMPLIANCE & OPERATION CHECKLIST

Fill in the appropriate box and if "C", explain in the comment section on the front of this form.

ITEM #2 SOURCE (CONT.)

NA — Groundwater

C ok NA

- 252. Discharge stream erosion
- 253. Discharge stream obstructions
- 254. Emergency spillway condition
- 255. Other _____

NA — Rivers & Streams

C ok NA

- **256. Source of supply approved** 640.115(1)
- 257. Quality of Water
- 258. Capacity during drought
- 259. Raw water storage capacity & condition
- 260. Coffer dam condition
- 261. Intake protection
- 262. Vandalism control
- 263. Other _____

NA — Intakes

C ok NA

- 264. Adequacy of water withdrawal levels
- 265. Capacity of water inlets
- 266. Water Inlets screened
- 267. Condition of intake control valves
- 268. Intake tower condition
- 269. Safety cable on intake hoses
- 270. Floats properly anchored
- 271. Wench and cable condition
- 272. Discharge pipe capacity
- 273. Vandalism control
- 274. Intake protected from flood damage
- 275. Zebra mussel control program
- 276. Other _____

ITEM #3 PUMPING STATIONS

NA — Raw & Finish Water Pumping

C ok NA

- 301. Pumping capacity
- 302. Adequate number of pumps
- 303. Pump operable during flooding
- 304. Sized for pump maintenance
- 305. Pump room access
- 306. Adequate safety equipment
- 307. Heating and venting
- 308. Drains and sumps
- 309. Lighting (int&ext)
- 310. Power supply
- 311. Telemetry & pump control
- 312. Pressure Gauges
- 313. Metering-operable
- 314. Pump piping condition
- 315. Other _____

NA — Finished Water Pumping

C ok NA

- 316. Pressure _____ psi
- 317. Flow _____ gpm
- 318. HP _____; Phase 3__ or 1__
- 319. Other _____

ITEM #4 STORAGE

NA — Unpressurized Storage

C ok NA

- **401. Storage covered & vented** 10CSR60-4.080(7)
- **402. Approved chemicals, materials, & coatings** 10CSR60-4.080(8)
- **403. Sanitary Defects** 10CSR60-4.080(5)
- 404. Adequate capacity
- 405. Overflow *12" to 24" above ground *Screened or flap valve
- 406. Vent screened
- 407. Access hatch locked 2" overlap, 4" to 6" curbing
- 408. Manway
- 409. Access ladder & appurtenances condition
- 410. Exterior paint condition
- 411. Unsealed openings
- 412. Security
- 413. Isolation for maintenance
- 414. Roof watertight & properly drained
- 415. Adequate drain
- 416. Inspection Program
- 417. Protection-vandalism, animals, etc.
- 418. Condition of valve vault
- 419. Sample Tap
- 420. Trees/Brush cleared
- 421. Other _____

NA — Pressure Tanks

C ok NA

- 422. Drain
- 423. Water sight glass
- 424. Manway
- 425. Pressure Gauge
- 426. Compressor
- 427. Air blow off
- 428. Controls
- 429. Exterior paint condition
- 430. Capacity
  - No. of Tanks 1, Dia. ____,
  - Circ. ____, Ht/Length ____/____
  - Volume Ea. 35,000 gal
- 431. Total Capacity 35,000 gal
- 432. Water logged
- 433. Exterior paint condition
- 434. Bladder tank drawdown
  - Capacity ____ ea. ____ gal
  - Capacity ____ ea. ____ gal
  - Capacity ____ ea. ____ gal
- 435. Other TANK INSPECTION PROGRAM
- 436. Other _____

NA — ITEM #5 DISTRIBUTION

C ok NA

- **501. Minimum Pressure** 10CSR60-4.080(9)
- **502. New mains & repairs disinfected** 10CSR60-4.080(6)
- **503. Main & sewer separation** 10CSR60-10.010(2)
- **504. Approved Chemicals, materials, & coatings** 10CSR60-4.080(8)
- 505. Water loss ≤ 10%
- 506. Adequate cleanouts, valves, and hydrants to flush system
- 507. Individual customer meter
- 508. Portable shoring available
- 509. Other PLASTIC BALL VALVES

NA — ITEM #6 MCL/MONITORING

C ok NA

- **601. Microbiological MCL** 10CSR60-4.020(7)
- **602. Total Coliform Monitoring** 10CSR60-4.020
- **603. Inorganic chemicals** 10CSR60-4.030
- **604. Nitrates/Nitrites** 10CSR60-4.030(2)(C) & (D)
- **605. Synthetic organic chemicals** 10CSR60-4.040
- **606. Monthly turbidity MCL** 10CSR60-4.050(2)(A)1 small or 10CSR60-4.050(3)(B)1 large
- **607. Acute turbidity MCL** 10CSR60-4.050(2)(A)2 small or 10CSR60-4.050(3)(B)2 large
- **608. Report acute turbidity MCL** 10CSR60-4.050(2)(D) small or 10CSR60-4.050(3)(D) large
- **609. Continuous turbidity monitoring** 10CSR60-4.040(3)(E)1
- **610. Disinfection Profiling** 10CSR60-4.055(6)(C)
- **611. Radio- nuclides** 10CSR60-4.060
- **612. Secondary contaminants** 10CSR60-4.070

COMPLIANCE & OPERATIONAL CHECKLIST

Fill in the appropriate box and if "C", explain in the comment section on the front of this form.

☐☐☑ **613. Fluoride supplementation** 10CSR60-4.080(11)

☐☐☑ **614. Disinfection By-Products (DBP) TTHM & HAA5** 10CSR60-4.090(3)(B)

☐☐☑ **615. DBP Chlorite** 10CSR60-4.090(3)(B)2

☐☐☑ **616. DBP Bromate** 10CSR60-4.090(3)(B)3

☐☐☑ **617. DBP Precursors TOC & Alkalinity** 10CSR60-4.090(3)(D)

☐☑☐ **618. Volatile organic chemicals** 10CSR60-4.100

☐☑☐ **619. Unregulated chemicals** 10CSR60-4.110

☐☑☐ **620. Exceed Pb/Cu levels** 10CSR60-15.020-15.050

☐☑☐ **621. Operational Monitoring** 10CSR60-4.080(3)

☐☐☑ **622. Disinfection Requirements** 10CSR60-4.055

☒ **NA** ***ITEM #7 DISINFECTION***

C ok NA

☐☐☐ **701. Minimum residual - entry** 10CSR60-4.055(3)

☐☐☐ **702. Maximum residual - Dist. System** 10CSR60-4.055(5)

☐☐☐ **703. Minimum residual - Dist. System** 10CSR60-4.055(4)

☐☐☐ **704. Cl_2 Monitoring - Dist. System** 10CSR60-4.055(4)(E)

☐☐☐ **705. Monitoring frequency** 10CSR60-4.055(3)(F)

☐☐☐ **706. Low residual reporting** 10CSR60-4.055(3)(E)

☐☐☐ **707. CT study done** 10CSR60-4.055(2)(D)

☐☐☐ **708. Meeting CT requirement** 10CSR60-4.055(2)(C)

☐☐☐ **709. Add Cl prior to ammonia** 10CSR60-4.055(3.A)

☐☐☐ **710. Add Cl prior to filters** 10CSR60-4.055(3.C)

☐☐☐ **711. Operated/Supervised adequately/Operational Monitoring** 10CSR60-4.080(5)

☒ **NA** **Liquid Chlorinator**

C ok NA

☐☐☐ 712. Physical condition of feeder

☐☐☐ 713. Adequate detention

☐☐☐ 714. Corrosion in room

☐☐☐ 715. Adequate feed control

☐☐☐ 716. Adequate venting, heating, lighting

☐☐☐ 717. Security

☐☐☐ 718. Other _____

☒ **NA** **Gas Chlorinator**

C ok NA

☐☐☐ 719. Adequate detention

☐☐☐ 720. Separate Cl_2 room

☐☐☐ 721. Interior wall view window

☐☐☐ 722. Panic bar door

☐☐☐ 723. Fan suction near floor

☐☐☐ 724. Inlet near ceiling

☐☐☐ 725. Chains n Cl_2 cylinders

☐☐☐ 726. Cylinders on scales

☐☐☐ 727. Exterior fan/light switch

☐☐☐ 728. SCBA

☐☐☐ 729. Ammonia bottle

☐☐☐ 730. Leak detection/repair kit

☐☐☐ 731. Shower & eye wash

☐☐☐ 732. Hydrocarbons in room

☐☐☐ 733. Sample tap Past Cl_2

☐☐☐ 734. Condition of room

☐☐☐ 735. Security

☐☐☐ 736. Other _____

☒ **NA** **Other Types**

C ok NA

☐☐☐ 737. _____

☐☐☐ 738. _____

☐☐☐ 739. _____

☒ **NA** ***ITEM #8 TREATMENT***

C ok NA

☐☐☐ **801. Approved chemicals, materials & coatings** 10CSR60-4.080(8)

☐☐☐ **802. Aeration** 10CSR60-4.080(5)

☐☐☐ **803. Chemical Application** 10CSR60-4.080(5)

☐☐☐ **804. Corrosion Control Treatment** 10CSR60-15.010(4)

☐☐☐ **805. Mixing** 10CSR60-4.080(5)

☐☐☐ **806. Settling** 10CSR60-4.080(5)

☐☐☐ **807. Filtration** 10CSR60-4.080(5)

☐☐☐ **808. H.S. pumps** 10CSR60-4.080(5)

☐☐☐ **809. Other pumps** 10CSR60-4.080(5)

☐☐☐ **810. Control equipment** 10CSR60-4.080(5)

☐☐☐ **811. Plant water storage** 10CSR60-4.080(5)

☐☐☐ **812. Operational Monitoring** 10CSR60-4.080(5)

☐☐☐ **813. Carbon feed room separate/explosion proof** 10CSR60-4.080(5)

☒ **NA** **Fluoride**

C ok NA

☐☐☐ **814. Sample submittal** 10CSR60-4.080(11)

☐☐☐ 815. Adequate lab equipment

☐☐☐ 816. Fluoride pump operable

☐☐☐ 817. Sample tap 100 pipe dia. past feed

☐☐☐ 818. Day tank

☐☐☐ 819. Vented to outside

☐☐☐ 820. Other _____

☐ **NA** **Ion Exchange Softening**

C ok NA

☐☐☐ 821. Adequate size

☐☐☐ 822. Condition of softener

☐☐☐ 823. Metered for bypassing

☐☐☐ 824. Condition of salt storage

☐☐☐ 825. Other _____

☒ **NA** **Aeration**

C ok NA

☐☐☐ 826. Capacity

☐☐☐ 827. By-passing for maintenance

☐☐☐ 828. Side access & drainage

☐☐☐ 829. Access to inlet distributor

☐☐☐ 830. Condition of air screens

☐☐☐ 831. Access for screen cleaning

☐☐☐ 832. Condition of media or trays

☐☐☐ 833. Condition fan & drive motor

☐☐☐ 834. Condition support structure

☐☐☐ 835. Condition of paint

☐☐☐ 836. Other _____

☒ **NA** **Rapid Mixing**

C ok NA

☐☐☐ 837. Mixing detention

☐☐☐ 838. Adequate mixer capacity

☐☐☐ 839. Condition of mixer

☐☐☐ 840. Mixer maintenance

☐☐☐ 841. Other _____

☒ **NA** **Flocculation**

C ok NA

☐☐☐ 842. Adequate capacity

☐☐☐ 843. Provisions for cleaning

☐☐☐ 844. Provisions for draining

☐☐☐ 845. Mixer condition

☐☐☐ 846. Mixer capacity

☐☐☐ 847. Mixer access for maintenance

☐☐☐ 848. Short circuiting thru basin

☐☐☐ 849. Condition of basin

☐☐☐ 850. SS testing at taps

☐☐☐ 851. Other _____

☒ **NA** **Sedimentation**

C ok NA

☐☐☐ 852. Pre-sed. condition & capacity

☐☐☐ 853. Regular sed. purpose & cap.

☐☐☐ 854. Condition of structure

☐☐☐ 855. Maintain units w/ continuous operation

☐☐☐ 856. Condition Inf. & Eff. facilities

COMPLIANCE & OPERATIONAL CHECKLIST

Fill in the appropriate box and if "C", explain in the comment section on the front of this form.

C	ok	NA		
			857.	Short circuiting in basin
			858.	Adequacy of sludge removal
			859.	Condition of sludge equipment
			860.	Adequacy of sludge lines
			861.	Other _____

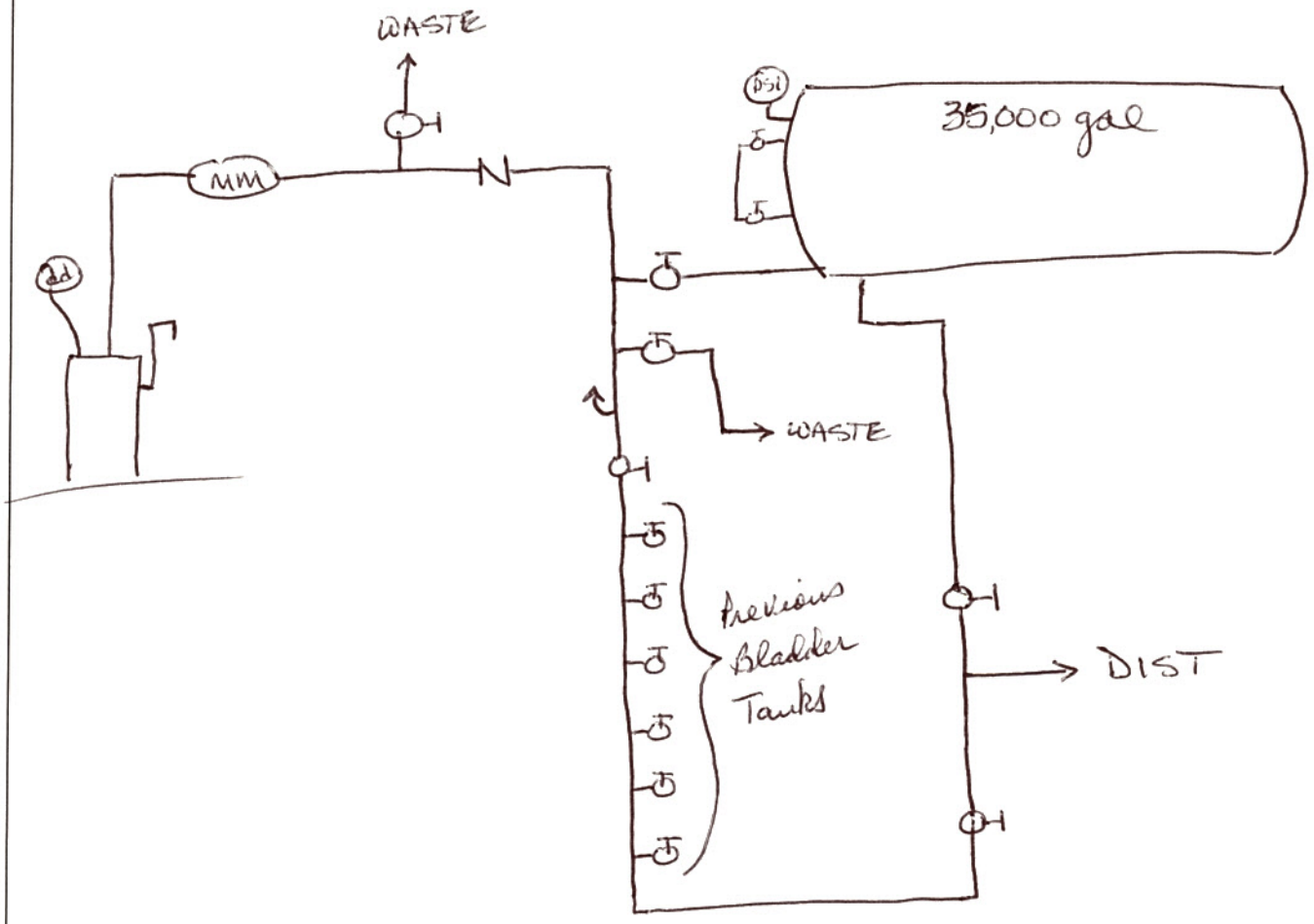
C	ok	NA		Filtration
		X		NA
			862.	Appropriate type
			863.	Adequate number for continuous operation
			864.	Condition of media
			865.	Maintenance Plan
			866.	On-line Turbidimeters on each filter/calibrated
			867.	Backwash rate & duration
			868.	Adequate backwash method
			869.	Other _____

C	ok	NA		Plant Information
		X		NA
			870.	General Condition
			871.	Proper Lab equipment
			872.	Calibration standards
			873.	Tests according to directions
			874.	Other _____
			875.	Other _____
			876.	Other _____

System Information for 12 Months

Number of Active Services 214
Avg. Daily Produced _____ **gal/Purchased** _____ **gal**
Max. Daily Produced _____ **gal/Purchased** _____ **gal**
Water Loss UNK. %

Population Served 535
Avg. Daily Supplied to Secondary Systems 0 **gal**
Max. Daily Supplied to Secondary Systems 0 **gal**
Total Storage 35,000 **gal**



MISSOURI DEPARTMENT OF NATURAL RESOURCES
PUBLIC DRINKING WATER PROGRAM
COMPLIANCE & OPERATIONAL INSPECTION

CLASS 2 INSPECTION FORM

INTERVIEWED >	Jim Heppler - Operator	DATE 8/24/2017
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The following comments are referenced to the applicable checklist items attached to this form.

208 - PWS needs a second well (Serves more than 500 people)
227 - Well Casing & Piping needs to be painted
229 - PWS does not have a source of emergency electrical power
234 - PWS has not established a well water level monitoring program
429 - Exterior of 35,000 gal hydropneumatic pressure tank needs to be cleaned and painted
430/431 - Use of hydropneumatic storage not recommended as the only storage for systems serving more than 50 connections This PWS serves 214 connections
435 - PWS has not established a tank inspection & cleaning program
436 - Trees/brush need to be removed or cut back around storage tank & well House. Particularly the large Sycamore tree that is leaning over the top of the well house
506 - Flush hydrants are needed in the distribution system
507 - Approximately 40 of the 214 connections aren't metered
509 - Piping in the well house includes 4" PVC piping & valves

Bacti sample collected from sample site 02 was TC absent

FREE & TOTAL CHLORINE RESIDUAL _____ & 4 mg/l ☑ Sample Collected & LOCATION 02 (Bldg 172)

INSPECTOR'S SIGNATURE	TITLE
[signature]	ENV. SPEC. III

MO 780-1617 (2-01)

COMPLIANCE & OPERATIONAL CHECKLIST

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C ok NA

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- ☐ ☑ ☐ 113. **Pb/Cu Sampling plan** 10CSR60-15.070
- ☐ ☐ ☑ 114. **Turbidity reporting** 10CSR60-7.010(4)
- ☐ ☐ ☑ 115. **Disinfection reporting** 10CSR60-7.010(5)
- ☐ ☑ ☐ 116. **Private lab coliform results** 10CSR60-7.010
- ☐ ☑ ☐ 117. **Public notification requirements** 10CSR60-8.010
- ☐ ☑ ☐ 118. **Exemption/ variance requirements** 10CSR60-6.030
- ☐ ☐ ☑ 119. **Sludge management permit or plan** 10CSR20-8.170
- ☐ ☐ ☑ 120. **NPDES Permit on plant discharge** 10CSR20-6.010(5)
- ☐ ☑ ☐ 121. **Monitoring reports due by 10th** 10CSR60-7.010(1)
- ☐ ☑ ☐ 122. **Reporting regulation violations** 10CSR60-7.010(2)
- ☐ ☐ ☑ 123. **Reporting DBP & IESWTR** 10CSR60-7.010(6)
- ☐ ☐ ☑ 124. **Enhanced Filtration & Disinf. Reporting** 10CSR60-7.010(7)
- ☐ ☐ ☑ 125. **DBP Monitoring Plan** 10CSR60-4.090(3)
- ☐ ☑ ☐ 126. **Reporting for Lead & Copper** 10CSR60-7.020(4)
- ☐ ☑ ☐ 127. **Coliform results (5 yrs)** 10CSR60-9.010(1)(A)

C ok NA

- ☐ ☑ ☐ 128. **Operational records** 10CSR60-9.010(1)(A)
- ☐ ☑ ☐ 129. **Chemical results (10 yrs)** 10CSR60-9.010(1)(A)
- ☐ ☑ ☐ 130. **Violation actions (3 yrs)** 10CSR60-9.010(1)(B)
- ☐ ☑ ☐ 131. **Inspection Reports (10 yrs)** 10CSR60-9.010(1)(C)
- ☐ ☑ ☐ 132. **Variance/exemption records (5 yrs)** 10CSR60-9.010(1)(D)
- ☐ ☑ ☐ 133. **CCR** CFR 141.153
- ☐ ☑ ☐ 134. **Any system records requested** 10CSR60-9.010(2)

- ☐ ☑ ☐ 135. Updated distribution map
- ☐ ☑ ☐ 136. Individual valve records
- ☐ ☐ ☑ 137. Individual fire hydrant records
- ☐ ☐ ☑ 138. Individual flush hydrant records
- ☐ ☑ ☐ 139. Main Brk/Leak Repair Program
- ☐ ☑ ☐ 140. Valve Maintenance Program
- ☐ ☑ ☐ 141. Main Flushing Program
- ☐ ☑ ☐ 142. Operational/Maint. records
- ☐ ☐ ☐ 143. Other _____

ITEM #2 SOURCE

☐ NA **Groundwater**

C ok NA

- ☐ ☑ ☐ 201. **Source of supply approved** 640.115(1)
- ☐ ☑ ☐ 202. **Well driller's permit (drilled after 1987)** 10CSR23-1.090
- ☐ ☑ ☐ 203. **Construction requirements** 10CSR60-10.010
- ☐ ☑ ☐ 204. **Sanitary construction defects** 10CSR60-4.080(5)
- ☐ ☑ ☐ 205. **Siting requirements** 10CSR60-10.020
- ☐ ☑ ☐ 206. **GWUDI determination** 10CSR60-4.055(1)
- ☐ ☑ ☐ 207. **Plugging abandoned wells** 10CSR23-3.110

- ☑ ☐ ☐ 208. Adequate number of wells
- ☐ ☑ ☐ 209. Weather protection
- ☐ ☑ ☐ 210. Security
- ☐ ☑ ☐ 211. Floor Drain
- ☐ ☑ ☐ 212. Heating/venting/dehumidification
- ☐ ☑ ☐ 213. Lighting
- ☐ ☑ ☐ 214. Chemicals in well house
- ☐ ☑ ☐ 215. Top of well at least:
  - *4' above flood level
  - *above floor 12" min.
  - *above ground 18" min.
  - *approved casing & grout

C ok NA

- ☐ ☐ ☑ 216. Grand fathered
- ☐ ☑ ☐ 217. Vent screen/down turned
- ☐ ☑ ☐ 218. Vent 18" above floor
- ☐ ☑ ☐ 219. Vent adequate size
- ☐ ☑ ☐ 220. Pump capacity
  - _____ gpm @ _____ psi
  - _____ gpm @ _____ psi
- ☐ ☑ ☐ 221. Well meter, operable
- ☐ ☑ ☐ 222. Drawdown measuring equip.
- ☐ ☑ ☐ 223. Pressure Gauge-operable
- ☐ ☑ ☐ 224. Shutoff Valve
- ☐ ☑ ☐ 225. Check Valve
- ☐ ☑ ☐ 226. Wellhead sealed
- ☑ ☐ ☐ 227. Piping condition
- ☐ ☑ ☐ 228. Raw water sample tap past check valve
- ☑ ☐ ☐ 229. Auxiliary power supply
- ☐ ☐ ☑ 230. Pitiless Unit, no adapter
- ☐ ☐ ☑ 231. Valve vault adequate size, drained, & provide safe access
- ☐ ☐ ☑ 232. Vertical Shaft Turbine Pumps Air Release - screened, down turned, 18" above floor
- ☐ ☑ ☐ 233. Security
- ☑ ☐ ☐ 234. Other DRAWDOWN READINGS

☒ NA **Reservoirs**

C ok NA

- ☐ ☐ ☐ 235. **Source of supply approved** 640.115(1)
- ☐ ☐ ☐ 236. **Dam safety permit (dams >35' tall)** 10CSR22-2.020(4)
- ☐ ☐ ☐ 237. **Dam maintenance & monitoring** 10CSR22-3.030(1)(B)
- ☐ ☐ ☐ 238. **Recreational use plan** 10CSR60-10.030
- ☐ ☐ ☐ 239. **Siting requirements** 10CSR60-10.020

- ☐ ☐ ☐ 240. Quality of water
- ☐ ☐ ☐ 241. Capacity adequate for drought
- ☐ ☐ ☐ 242. Does system have storage curves
- ☐ ☐ ☐ 243. Stadial marker & weekly records
- ☐ ☐ ☐ 244. Siltation control structure condition
- ☐ ☐ ☐ 245. Watershed management plan
- ☐ ☐ ☐ 246. Algae control program
- ☐ ☐ ☐ 247. Dam maintenance (mowing, brush, rodents)
- ☐ ☐ ☐ 248. Erosion control
- ☐ ☐ ☐ 249. No flow obstructions in spillway entrance
- ☐ ☐ ☐ 250. Condition of spillway
- ☐ ☐ ☐ 251. Spillway discharge condition

COMPLIANCE & OPERATION CHECKLIST

Fill in the appropriate box and if "C", explain in the comment section on the front of this form.

ITEM #2 SOURCE (CONT.)

NA **Groundwater**

C ok NA

- 252. Discharge stream erosion
- 253. Discharge stream obstructions
- 254. Emergency spillway condition
- 255. Other _____

NA **Rivers & Streams**

C ok NA

- **256. Source of supply approved** 640.115(1)
- 257. Quality of Water
- 258. Capacity during drought
- 259. Raw water storage capacity & condition
- 260. Coffer dam condition
- 261. Intake protection
- 262. Vandalism control
- 263. Other _____

NA **Intakes**

C ok NA

- 264. Adequacy of water withdrawal levels
- 265. Capacity of water inlets
- 266. Water Inlets screened
- 267. Condition of intake control valves
- 268. Intake tower condition
- 269. Safety cable on intake hoses
- 270. Floats properly anchored
- 271. Wench and cable condition
- 272. Discharge pipe capacity
- 273. Vandalism control
- 274. Intake protected from flood damage
- 275. Zebra mussel control program
- 276. Other _____

ITEM #3 PUMPING STATIONS

NA **Raw & Finish Water Pumping**

C ok NA

- 301. Pumping capacity
- 302. Adequate number of pumps
- 303. Pump operable during flooding
- 304. Sized for pump maintenance
- 305. Pump room access
- 306. Adequate safety equipment
- 307. Heating and venting
- 308. Drains and sumps
- 309. Lighting (int&ext)
- 310. Power supply
- 311. Telemetry & pump control
- 312. Pressure Gauges
- 313. Metering-operable
- 314. Pump piping condition
- 315. Other _____

NA **Finished Water Pumping**

C ok NA

- 316. Pressure _____ psi
- 317. Flow _____ gpm
- 318. HP_____; Phase 3__ or 1__
- 319. Other _____

ITEM #4 STORAGE

NA **Unpressurized Storage**

C ok NA

- **401. Storage covered & vented** 10CSR60-4.080(7)
- **402. Approved chemicals, materials, & coatings** 10CSR60-4.080(8)
- **403. Sanitary Defects** 10CSR60-4.080(5)
- 404. Adequate capacity
- 405. Overflow *12" to 24" above ground *Screened or flap valve
- 406. Vent screened
- 407. Access hatch locked 2" overlap, 4" to 6" curbing
- 408. Manway
- 409. Access ladder & appurtenances condition
- 410. Exterior paint condition
- 411. Unsealed openings
- 412. Security
- 413. Isolation for maintenance
- 414. Roof watertight & properly drained
- 415. Adequate drain
- 416. Inspection Program
- 417. Protection-vandalism, animals, etc.
- 418. Condition of valve vault
- 419. Sample Tap
- 420. Trees/Brush cleared
- 421. Other _____

NA **Pressure Tanks**

C ok NA

- 422. Drain
- 423. Water sight glass
- 424. Manway
- 425. Pressure Gauge
- 426. Compressor
- 427. Air blow off
- 428. Controls
- 429. Exterior paint condition
- 430. Capacity
  No. of Tanks 1, Dia.____, Circ. ____, Ht/Length 1
  Volume Ea. 35,000 gal
- 431. Total Capacity 35,000 gal
- 432. Water logged
- 433. Exterior paint condition
- 434. Bladder tank drawdown
  Capacity _____ ea. _____ gal
  Capacity _____ ea. _____ gal
  Capacity _____ ea. _____ gal
- 435. Other TANK INSPECT/CLEAN
- 436. Other TREES/BRUSH NEAR TANK & WELL HOUSE

NA **ITEM #5 DISTRIBUTION**

C ok NA

- **501. Minimum Pressure** 10CSR60-4.080(9)
- **502. New mains & repairs disinfected** 10CSR60-4.080(6)
- **503. Main & sewer separation** 10CSR60-10.010(2)
- **504. Approved Chemicals, materials, & coatings** 10CSR60-4.080(8)
- 505. Water loss ≤ 10%
- 506. Adequate cleanouts, valves, and hydrants to flush system
- 507. Individual customer meter
- 508. Portable shoring available
- 509. Other 4" PVC VALVES IN WELL HOUSE

NA **ITEM #6 MCL/MONITORING**

C ok NA

- **601. Microbiological MCL** 10CSR60-4.020(7)
- **602. Total Coliform Monitoring** 10CSR60-4.020
- **603. Inorganic chemicals** 10CSR60-4.030
- **604. Nitrates/Nitrites** 10CSR60-4.030(2)(C) & (D)
- **605. Synthetic organic chemicals** 10CSR60-4.040
- **606. Monthly turbidity MCL** 10CSR60-4.050(2)(A)1 small or 10CSR60-4.050(3)(B)1 large
- **607. Acute turbidity MCL** 10CSR60-4.050(2)(A)2 small or 10CSR60-4.050(3)(B)2 large
- **608. Report acute turbidity MCL** 10CSR60-4.050(2)(D) small or 10CSR60-4.050(3)(D) large
- **609. Continuous turbidity monitoring** 10CSR60-4.040(3)(E)1
- **610. Disinfection Profiling** 10CSR60-4.055(6)(C)
- **611. Radio- nuclides** 10CSR60-4.060
- **612. Secondary contaminants** 10CSR60-4.070

COMPLIANCE & OPERATIONAL CHECKLIST

Fill in the appropriate box and if "C", explain in the comment section on the front of this form.

- 613. **Fluoride supplementation** 10CSR60-4.080(11)
- 614. **Disinfection By-Products (DBP) TTHM & HAA5** 10CSR60-4.090(3)(B)
- 615. **DBP Chlorite** 10CSR60-4.090(3)(B)2
- 616. **DBP Bromate** 10CSR60-4.090(3)(B)3
- 617. **DBP Precursors TOC & Alkalinity** 10CSR60-4.090(3)(D)
- 618. **Volatile organic chemicals** 10CSR60-4.100
- 619. **Unregulated chemicals** 10CSR60-4.110
- 620. **Exceed Pb/Cu levels** 10CSR60-15.020-15.050
- 621. **Operational Monitoring** 10CSR60-4.080(3)
- 622. **Disinfection Requirements** 10CSR60-4.055

NA — *ITEM #7 DISINFECTION*

C ok NA

- 701. **Minimum residual - entry** 10CSR60-4.055(3)
- 702. **Maximum residual - Dist. System** 10CSR60-4.055(5)
- 703. **Minimum residual - Dist. System** 10CSR60-4.055(4)
- 704. **Cl_2 Monitoring - Dist. System** 10CSR60-4.055(4)(E)
- 705. **Monitoring frequency** 10CSR60-4.055(3)(F)
- 706. **Low residual reporting** 10CSR60-4.055(3)(E)
- 707. **CT study done** 10CSR60-4.055(2)(D)
- 708. **Meeting CT requirement** 10CSR60-4.055(2)(C)
- 709. **Add Cl prior to ammonia** 10CSR60-4.055(3.A)
- 710. **Add Cl prior to filters** 10CSR60-4.055(3.C)
- 711. **Operated/Supervised adequately/Operational Monitoring** 10CSR60-4.080(5)

NA — Liquid Chlorinator

C ok NA

- 712. Physical condition of feeder
- 713. Adequate detention
- 714. Corrosion in room
- 715. Adequate feed control
- 716. Adequate venting, heating, lighting
- 717. Security
- 718. Other _____

NA — Gas Chlorinator

C ok NA

- 719. Adequate detention
- 720. Separate Cl_2 room
- 721. Interior wall view window
- 722. Panic bar door
- 723. Fan suction near floor
- 724. Inlet near ceiling
- 725. Chains n Cl_2 cylinders
- 726. Cylinders on scales
- 727. Exterior fan/light switch
- 728. SCBA
- 729. Ammonia bottle
- 730. Leak detection/repair kit
- 731. Shower & eye wash
- 732. Hydrocarbons in room
- 733. Sample tap Past Cl_2
- 734. Condition of room
- 735. Security
- 736. Other _____

NA — Other Types

C ok NA

- 737. _____
- 738. _____
- 739. _____

NA — *ITEM #8 TREATMENT*

C ok NA

- 801. **Approved chemicals, materials & coatings** 10CSR60-4.080(8)
- 802. **Aeration** 10CSR60-4.080(5)
- 803. **Chemical Application** 10CSR60-4.080(5)
- 804. **Corrosion Control Treatment** 10CSR60-15.010(4)
- 805. **Mixing** 10CSR60-4.080(5)
- 806. **Settling** 10CSR60-4.080(5)
- 807. **Filtration** 10CSR60-4.080(5)
- 808. **H.S. pumps** 10CSR60-4.080(5)
- 809. **Other pumps** 10CSR60-4.080(5)
- 810. **Control equipment** 10CSR60-4.080(5)
- 811. **Plant water storage** 10CSR60-4.080(5)
- 812. **Operational Monitoring** 10CSR60-4.080(5)
- 813. **Carbon feed room separate/explosion proof** 10CSR60-4.080(5)

NA — Fluoride

C ok NA

- 814. **Sample submittal** 10CSR60-4.080(11)
- 815. Adequate lab equipment
- 816. Fluoride pump operable
- 817. Sample tap 100 pipe dia. past feed
- 818. Day tank
- 819. Vented to outside
- 820. Other _____

NA — Ion Exchange Softening

C ok NA

- 821. Adequate size
- 822. Condition of softener
- 823. Metered for bypassing
- 824. Condition of salt storage
- 825. Other _____

NA — Aeration

C ok NA

- 826. Capacity
- 827. By-passing for maintenance
- 828. Side access & drainage
- 829. Access to inlet distributor
- 830. Condition of air screens
- 831. Access for screen cleaning
- 832. Condition of media or trays
- 833. Condition fan & drive motor
- 834. Condition support structure
- 835. Condition of paint
- 836. Other _____

NA — Rapid Mixing

C ok NA

- 837. Mixing detention
- 838. Adequate mixer capacity
- 839. Condition of mixer
- 840. Mixer maintenance
- 841. Other _____

NA — Flocculation

C ok NA

- 842. Adequate capacity
- 843. Provisions for cleaning
- 844. Provisions for draining
- 845. Mixer condition
- 846. Mixer capacity
- 847. Mixer access for maintenance
- 848. Short circuiting thru basin
- 849. Condition of basin
- 850. SS testing at taps
- 851. Other _____

NA — Sedimentation

C ok NA

- 852. Pre-sed. condition & capacity
- 853. Regular sed. purpose & cap.
- 854. Condition of structure
- 855. Maintain units w/ continuous operation
- 856. Condition Inf. & Eff. facilities

COMPLIANCE & OPERATIONAL CHECKLIST

Fill in the appropriate box and if "C", explain in the comment section on the front of this form.

857. Short circuiting in basin	**NA** **Filtration**	**NA** **Plant Information**
858. Adequacy of sludge removal	C ok NA	C ok NA
859. Condition of sludge equipment	862. Appropriate type	870. General Condition
860. Adequacy of sludge lines	863. Adequate number for continuous operation	871. Proper Lab equipment
861. Other _____	864. Condition of media	872. Calibration standards
	865. Maintenance Plan	873. Tests according to directions
	866. On-line Turbidimeters on each filter/calibrated	874. Other _____
	867. Backwash rate & duration	875. Other _____
	868. Adequate backwash method	876. Other _____
	869. Other _____	

System Information for 12 Months

Number of Active Services 214
Avg. Daily Produced _____ **gal/Purchased** 0 **gal**
Max. Daily Produced _____ **gal/Purchased** 0 **gal**
Water Loss _____ %

Population Served 535
Avg. Daily Supplied to Secondary Systems 0 **gal**
Max. Daily Supplied to Secondary Systems 0 **gal**
Total Storage 35,000 **gal**