

Water, Wastewater Pump Station and Collection System
(inc. Weekend) Standard Operating Procedures
Ancora Psychiatric Hospital

Daily (including weekends)

HEADWORKS AND WATER PLANT

1. Record flow totalizer reading from ABB recorder and record to legal bound log book. Calculate the flow from the day prior and log gallons pumped.
2. Check and record Pump #1 and Pump #2 hour readings.
3. Check and record variable speed drive settings for Pump #1 and Pump #2.
4. Check and record Bioxide level. Calculate the usage from the day prior and log gallons used.
5. Check Bioxide pumps for proper operations and leaks.
6. Check auto-dialer operations.
7. Check and record generator run hours.
8. Check Influent flow channel. Clean debris from floor and put into auger for disposal.
9. Check and clean grease from auger operation float.
10. Check and remove debris from nylon brush for auger to assure proper wear.
11. Check and clean Muffin Monster.
12. Check and adjust water spray heads for auger.
13. Check grit chamber level. (if $\frac{3}{4}$ full, schedule removal and pump station shut down during off peak hours).
14. Check floats in wet well. Remove grease and rags from level indicator.
15. Check Bioxide pumps for leaks and wear. Check drip into wet well.
16. Check Variable speed pump vibrations via lift railings.
17. Calibrate pH meter with clean unused buffer solution. Record results in log book per N.J.A.C.7:18.
18. Calibrate chlorine meter and record results in log book per N.J.A.C. 7:18.
19. Perform pH test of influent and sample of water distribution system. Record in log book per N.J.A.C.7:18.*
20. Perform chlorine residual on water distribution sample as required by permit. Record results in log book per N.J.A.C. 7:18.*
21. Perform sulfide test of discharged wastewater. Record results in log book.
22. Visually check air relief valves along force main route.
23. Visually check air filters along force main route.
24. Check water plant. Do visual of operations.
25. Check for leaks or abnormalities
26. Check well house #7 for operations and leaks.
27. Check water tower. Inspect and ensure controller is operating properly.
28. Check for visual signs of overflow and check overflow screen.

- Every 20th sample, perform standardizing calibration pursuant to N.J.A.C. 7:18

updated 12/13/13

Weekly

HEADWORKS

1. Remove grates from headworks trough area with exception to the grate next to Muffin Monster. Hose down float and lift so that it remains in the "on" position". Hose down all grease accumulation on side of walls. Pay close attention to area before muffin monster. Organic solids accumulate and need to be hosed and removed by bucket in necessary.
 2. Hose down Muffin Monster teeth and check rotation. Check for stuck debris.
 3. Hose grease out of ¼" holes in rotating drum until all holes are free.
 4. Remove plastics and debris from Auger brush if necessary. Hose down entire Auger screen and make sure water jets are positioned correctly to raise solids up Auger.
 5. Hose grease and any debris from all sliding gate channels. Insert gates in and out quickly to assure proper fit. ALL gates should seat 100%.
 6. Check grit chamber level with stick. (if at ¾ full, schedule removal)
 7. Check Bioxide pump poppits to assure proper seating. Clean if necessary.
 8. Check Bioxide suction strainer for debris. Clean if necessary.
 9. Grease all required fittings.
 10. Start up diesel back-up pump and run for 15 minutes. Re-fuel @ ½ tank.
 11. Run Eyewash station for 3 minutes.
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Monthly

HEADWORKS AND WATER PLANT

1. Coordinate with vendors and order chemicals and supplies.
 2. Record meter readings for Laundry and Maintenance buildings and incorporate into Monthly Operating report for client.
 3. Remove lock-out / tag-outs from chemical pumps at water plant.
 4. Assure chemical piping is in "By-pass" mode.
 5. Turn on valve for chemical tanks.
 6. Turn on pumps and run for 5 minutes and check for proper operation and leaks.
 7. Turn pumps off and reverse procedure until lock-out is achieved.
 8. Download data from pump Station O/I (Operator Interface) Panel. Convert data from CSV to Excel spreadsheet showing daily flow in 1 second intervals and graph in 6 hour periods for the entire month. Print each day and file chronologically.
 9. Operate Well #7 as specified in "Well #7 Monthly Standard Operating Procedure Manual" and record reading from portable meter in legal bound book. NEVER exceed 50,000 gallons per test or 100,000 gallons per month.
 10. Sweep all buildings.
 11. Interface with QC Labs for coliform and HPC sampling.
 12. Complete forms for HPC results and mail by 10th of each month to the NJDEP.
 13. Prepare legal bound book for next month (water and wastewater).
 14. Clean Bioxide suction screen as needed.
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Quarterly

HEADWORKS, WATER PLANT AND COLLECTION SYSTEM

1. Visit each manhole along C.C.M.U.A. force main route using locations map and GPS. Visually inspect for integrity. Pursuant to manufacturers' specifications, close valve to air valve and clean as required. Check air filters. If odor of sewage is detected, replace filter. Annotate all repairs in quarterly inspection report logbook, including I/I issues.
 2. Interface with QC labs for sampling.
 3. Depending on temperature, assure heater is working in all buildings.
 4. Schedule grit chamber cleaning pursuant to daily and weekly inspections.
 5. Check collection system and schedule cleaning as needed.
 6. Set up dry erase board for quarterly operations and maintenance tasks
 7. Perform required TTHM/HAA5 samples with QC.
 8. Complete and mail Disinfectant Residuals Report, to include residuals, HPC and running averages. Mail by the 10th of the month to the NJDEP
 9. Perform quarterly thermometer calibration for ATC thermometer per 7:18.
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Annually

1. Gather all reporting (both water and wastewater) and put together in 3 ring book for storage.
 2. Perform annual Water Utilization Report
 3. Perform Annual Consumer Confidence Report and interface with Winslow Twp and NJAW with their report.
 4. Perform Laboratory Proficiency testing including procurement of samples.
 5. Interface with Enforcement agent on plant operations and changes.
 6. Prepare report (if not done during the year) on water usage, changes, abnormalities or any other issue beyond normal operations.
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Ancora Psychiatric Hospital

Storage Water Tank inspection Procedures

The purpose of this procedure is to have a written plan in place to check the storage water tank. The area is to be kept clean at all times and checked for signs of vandalism or break-in. Daily checks provide only a glimpse of the tanks performance. Maintaining the tanks over-all appearance and integrity is critical for providing the potable water needed to feed the hospital.

1. Daily

- a. Check readings from Power house to assure telemetry is operational.
- b. Check tank fence area for signs of vandalism or break-in.

2. Weekly

- a. Unlock gate and check interior storage tank grounds area.
- b. Check overflow outlet and make sure screening is intact.
- c. Check grounds around overflow area for potential run-offs.
- d. Check for landscaping needs and cut grass if needed.

3. Monthly

- a. Unlock gate and inspect pressure gauges and controls housing.
- b. Inspect structural integrity from ground level and log findings.
- c. Inspect paint on storage tank from ground level and log findings. Should there be any issue, notify the Supervisor General of Support Services to schedule contractor repair of storage tank.

4. Annually

- a. Unlock gate and check structural integrity from ground level and log findings.
- b. Check records of last internal and external professional inspection and schedule maintenance if required. Should maintenance be required, notify the Supervisor General of Support Services to schedule internal or external inspection of storage tank as done every 3 years.

In any case of repair, a Contractor report shall consist of the overall condition and recommendations of the storage tank, including sedimentation levels and corrosion measurements as done every 3 years.

Signature of LOR



Date

5/30/12

Ancora Psychiatric Hospital Stage 2 Monitoring and Sampling Plan

The purpose of this procedure is to have a written plan in place for sampling the potable water at the hospital. It is important these procedures be followed to assure proper sampling. Note: Sampling is performed by QC laboratories. A representative from APH is to escort sampler to each site at all times.

1. Sites.
 - a. Q1 is designated Pump Station sink.
 - b. Q2 is designated the sink of the Women's room in Ivy Hall.
2. Sampling Designation
 - a. Q1 is the furthest sampling point in the distribution system at Ancora.
 - b. Q2 represents the general density of the hospital.
3. Quarterly
 - a. Collect one sample from Q1 for TTHM's.
 - b. Collect one sample from Q2 for HAA5's.

All sampling sites are available 24/7. For any questions, please contact the Licensed Operator of Record for more details.

Signature of LOR



Date



Ancora Psychiatric Hospital

Total Coliform Rule Sampling Plan

The purpose of this procedure is to have a written plan in place for sampling the potable water at the hospital now received from New Jersey American Water as a bulk purchaser. It is important these procedures be followed to assure proper sampling. Note: Sampling is performed by QC laboratories. A representative from APH is to escort sampler to each site at all times.

1. Sites.

- a. Site 1 is designated Pump Station sink. (new pump station)
- b. Site 2 is designated the sink of the Women's room in Ivy Hall.
- c. Site 3 is designated the sink of the Men's room in Cedar Hall.

2. Sampling Designation

- a. Site 1 is the furthest sampling point in the distribution system at Ancora.
- b. Site 2 represents the general density of the hospital.
- c. Site 3 represents the geographical center of the hospital.

3. Monthly Sampling

- a. Collect one sample from Site 1 for Total Coliform and chlorine residual.
- b. Collect one sample from Site 2 for Total Coliform and chlorine residual.
- c. Collect one sample from Site 3 for Total Coliform and chlorine residual.

All sampling sites are available 24/7 for required repeat sample events if Total Coliform positive results occur. For any questions, please contact the Licensed Operator of Record for more details.

Signature of LOR



Date



Ancora Psychiatric Hospital

Total Coliform Rule Sampling Plan

The purpose of this procedure is to have a written plan in place for sampling the potable water at the hospital now received from New Jersey American Water as a bulk purchaser. It is important these procedures be followed to assure proper sampling. Note: Sampling is performed by QC laboratories. A representative from APH is to escort sampler to each site at all times.

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 - a. Site 1 is designated Pump Station sink. (new pump station)
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2. Sampling Designation
 - a. Site 1 is the furthest sampling point in the distribution system at Ancora.
 - b. Site 2 represents the general density of the hospital.
 - c. Site 3 represents the geographical center of the hospital.
3. Monthly Sampling
 - a. Collect one sample from Site 1 for Total Coliform and chlorine residual.
 - b. Collect one sample from Site 2 for Total Coliform and chlorine residual.
 - c. Collect one sample from Site 3 for Total Coliform and chlorine residual.

All sampling sites are available 24/7 for required repeat sample events if Total Coliform positive results occur. NOTE: In the event the chlorine residual is less than 0.05 mg/L, Heteratropic Plate Count (HPC) sampling must be performed and results submitted to the NJDEP monthly. For any questions, please contact the Licensed Operator of Record for more details.

Signature of LOR



Date

12/1/13

Ancora Coliform Sample Siting Plan

Regulatory Requirement

In accordance with 40 CFR 141.21(a), public water systems must collect routine coliform samples at sites that are representative of water throughout the distribution system according to a written sample siting plan. Sampling locations should be designated at end users taps which are representative of service connections within the distribution system. On a case-by-case basis, the Division of Water Supply & Geoscience (Division) will evaluate and approve, if appropriate, the use of dedicated sampling stations.

Coliform sample siting plans are to be maintained on-site and are subject to State review and revision. *This guidance document also addresses some Ground Water Rule requirements [40 CFR 141.400 et seq.].*

Objectives Monitoring under the Total Coliform Rule is designed to detect the presence of microbiological contamination due to potential compromises of source water quality, treatment effectiveness, and/or distribution system integrity based on the following considerations:

- 1) Process Control: Evaluate the effectiveness of disinfection treatment and ensure that all water system treatment and pumping components are not vulnerable to microbiological contamination.
 - 2) System Reliability: Characterize the integrity of the distribution system by determining if bacteria are entering the distribution system through cross connections, low water pressure, leaking pipes, valves, joints, etc, or are persisting in the system within bio-films, stagnant zones, and/or water storage facilities. Such a characterization is useful in identifying the need for maintenance, repair, and cleaning of the distribution system to maintain adequate sanitary protection.
- Microbiological Sample Types

- **Routine Sample**— Total Coliform Rule compliance samples that are required to be collected on a routine basis as established in a written Coliform Sample Siting Plan, typically quarterly or monthly, from sample locations in the distribution system.
- **Repeat Sample** - Total Coliform Rule compliance samples that are required to be collected within 24 hours of notification of any routine total coliform positive sample in the distribution system.
- **Triggered Source Water Sample** – Ground Water Rule compliance samples that are required to be collected at the raw water sample tap of all operational supply wells within 24 hours of notification by the laboratory that a routine distribution sample is total coliform positive.
- **Special Samples** – non compliance samples collected to help identify the extent of the contamination and/or to determine the effectiveness of a remedial action.

Content: Coliform Sample Siting Plan

1) Water System information:

- a. Ancora Psychiatric Hospital
- b. NJ 0436001
- c. All Water comes from NJAW.
- d. NJ 0327001, TP001001
- e. Robert Wright, SGSS, APH @ Robert.Wright@dhs.state.nj.us
- f. 50 service connections
- g. 2700 customers
- h. No Treatment of water, purchased.
- i. Elevated storage tank of 400,000 gallons
- j. Water provided via Winslow Twp by New Jersey American at Nicholas.DeVecchis@amwater.com
- k. Plan updated May 11, 2014, original January 22, 2013
- l. Prepared by David W. Lodge, Licensed Operator of Record (LOR) at LESofNJ@aol.com

2) Distribution system map that labels the following water system components:

- a. Layout of distribution mains
- b. Water source(s)
- c. Treatment plant(s) (including booster stations)
- d. Storage tanks
- e. Interconnections
- f. Routine sampling sites
- g. Blow offs/flushing points
- h. Dead end mains and/or known trouble areas
- i. Pressure zones
- j. Maximum Residence Time sites and/or other areas of high water age

3) Designate the minimum number of routine samples required per monitoring period based on the population served in accordance with 40 CFR 141.21(a)(2) and (a)(3).

- a. 3 samples are taken each month.

4) Designate the number of routine samples to be collected each monitoring period. If routine monitoring will involve more than the minimum number of samples to be collected the written plan must specify under what conditions this occurs.

- a. 3 samples are taken each month.

5) Designate the frequency of sample collection at each sample site per monitoring period and provide a sample collection schedule. Sample collection can be established one of three ways:

- a. The same 3 sites are collected each month.

6) Provide a list of the routine sample sites to be utilized for reporting:

- a. #1 Pump Station Sink This site is furthest in the distribution system and has the most residence time.
- b. #2 Ivy Hall Womens room Sink. This site represents the general density of APH.
- c. #3 Cedar Hall Mens roon sink. This site represents the geographical center of APH.

7) In the event of a total coliform positive result, the following buildings and appurtances will be tested accordingly pursuant to 40 CFR 141.21(b):

1. Pump station: Poplar Hall Mens room sink, Business office Mens room sink, Maintenance building Mens room sink, Maintenance office mens room sink,
2. Ivy Hall: Birch Hall mens room sink, Cedar Hall mens room sink, Ivy Hall Womans sink, Storeroom Mens room sink.
3. Cedar Hall: Birch Hall mens room sink, Ivy Hall mens room sink, Elm Hall mens room sink, Greenhouse Mens room sink.

The justification for these sites are pursuant to site piping and are the next closest building up and downstream from each building.

If the system collects less than 5 routine samples per monitoring period, provide a list of routine sample sites to be utilized for sampling and reporting the month following a routine total coliform positive result. Include any addresses, site description (i.e. kitchen sink, bathroom sink, etc), and justification for choosing the sampling site. The routine sample sites designated under item 6 above must be included in this sampling.

- 8) Identify primary and alternate sample collector(s). Provide their name and title.
 - a. QC Laboratories performs all microbial testing at APH, Their information is as follows:
QC Laboratories
1205 Industrial Blvd PO Box 514
Southampton, NJ 18966
215-355-3900
 - i. Samples are taken monthly by QC labs with the LOR unlocking the sites to perform sampling. At no time is the representative of QC without APH employees.
- 11) Establish protocol for testing disinfectant residual at the same time and location of microbiological sample collection
 - a. QC performs the Chlorine residual while taking the coliform sample. SHOULD the residual of the sample be less than 0.05 mg/L, HPC sampling will be performed in addition to coliform testing.
- 12) Establish a plan of action when a ROUTINE total coliform positive occurs
 - a. If also E. coli or fecal positive notify the Bureau of Safe Drinking Water (Bureau) by the end of the day when the system is notified of the test result, or by the end of the next business day if the Bureau's office hours have been closed for the day (40 CFR 141.21(e)(1)).
 - b. Notify all of your wholesale public water systems, within 24 hours from being notified of the total coliform positive result, in which water was purchased from within two weeks of the routine sample collection date, pursuant to the Ground Water Rule (40 CFR 141.402(a)(4)(i).
 - c. Outline protocol to collect repeat samples within the distribution system within 24 hours of being notified of the routine total coliform positive result, pursuant to 40 CFR 141.21(b):
 - i. A system which collects more than one routine sample per monitoring period must collect no fewer than three repeat samples for each total coliform positive sample

- ii. A system which collects one routine sample per monitoring period must collect no fewer than four repeat samples for each total coliform positive sample
 - iii. Repeat sample locations are required as follows:
 - 1. original sample site that tested total coliform positive
 - 2. sample site within 5 service connections upstream
 - 3. sample site within 5 service connections downstream
 - 4. If a fourth repeat sample is required, it shall be collected from any other appropriate tap location (see item 6 above)
 - iv. If a water system is comprised of only one realty improvement (building) and has 2 or more routine total coliform positives during a monitoring period, then a minimum of 6 repeat samples are required to be collected in the distribution system.
1. Under these circumstances, the Division will not allow a Triggered Source Water sample collected under the Ground Water Rule to satisfy compliance with Total Coliform Rule.
- d. If the system has groundwater supply well(s), outline protocol to collect a triggered source water sample for each routine total coliform positive in the distribution system from a raw water sampling tap for each operational supply well(s) within 24 hours of being notified of the routine total coliform positive result, pursuant to the Ground Water Rule 40 CFR 141.402(a)(2).
 - i. The raw water sampling tap must be prior to all treatment and storage.
 - ii. Operational supply well refers to any well that was in use within one week from the collection date of the routine total coliform positive sample.
 - iii. If the system has a certification of 4-log virus treatment from the Division, triggered source water monitoring is not required for the supply wells that are treated by the 4-log certified virus treatment.
 - e. Outline protocol to collect a minimum of 5 routine total coliform samples during the next month water is provided to the public (40 CFR 141.121(b)(5)).

13) Establish a plan of action when triggered source water sample is E.coli positive as required within the Ground Water Rule (40 CFR 141.400 et seq.).

- a. Initiate consultation with the Bureau as soon as practical, but no later than 24 hours after the public water system learns of the positive result (40 CFR 141.203(b)(2)).
- b. Collect five additional source water samples (from raw water sample tap) within 24 hours from notification of the E. coli positive result (40 CFR 141.402(a)(3)).
 - i. If the ground water system fails to collect the five additional source water samples or if any of the five additional source water samples are E.coli positive, corrective actions are required to be implemented under the Ground Water Rule (40 CFR 141.403(a)(2)).
- c. Implement Tier 1 public notification requirements within 24 hours (40 CFR 141.403(g)) that includes a Boil Water/Do Not Drink Advisory

14) Establish a plan of action when a REPEAT total coliform positive occurs

- a. Consult with the Bureau within 24 hours after the becoming aware of the violation, pursuant to 40 CFR 141.203(b)(2). Consultation during off business hours should be directed to the Water Compliance and Enforcement duty officer through the DEP Hotline. Notify the DEP Hotline via telephone as soon as

becoming aware of an Acute coliform violation. The following scenarios represent an Acute microbiological violation:

- i. A routine sample is total coliform and fecal/E.coli positive and is followed by a repeat sample that is total coliform positive or both total coliform and fecal/E.coli positive. This scenario requires a Tier 1 public notice and requires a Boil Water/Do Not Drink Advisory.
- ii. A routine sample is total coliform positive and is followed by a repeat sample that is total coliform positive and fecal/E.coli positive. This scenario requires a Tier 1 public notice and requires a Boil Water/Do Not Drink Advisory.
- iii. A routine sample is total coliform positive or total coliform positive and fecal/E.coli positive and no repeat sample were collected. This scenario requires a Tier 1 public notice and requires a Boil Water/Do Not Drink Advisory.
- iv. A routine sample is total coliform positive or total coliform positive and fecal/E.coli positive and the repeat samples are collected late. This scenario requires a Tier 1 public notice and may require a Boil Water/Do Not Drink Advisory.
- v. A routine sample is total coliform positive or total coliform positive and fecal/E.coli positive and corrective actions (i.e. shock disinfection, repairs/adjustments to treatment unit, etc.) are implemented prior to the collection of required repeat samples. This scenario requires a Tier 1 public notice and may require a Boil Water/Do Not Drink Advisory.

1. Note that Monitoring and Reporting violations will be issued if the system conducts remedial actions prior to repeat sample and triggered source water sample collection.

b. Notify the Bureau via telephone within 48 hours of becoming aware of a Non-Acute coliform violation, pursuant to N.J.A.C. 7:10-5.4(c). The following scenarios represent a Non-Acute microbiological violation:

- i. Systems that collect less than 40 samples per month have more than one routine/repeat total coliform positive result. Tier 2 public notification is required.
- ii. Systems that collect 40 or more samples per month, more than 5% of the samples are total coliform positive. Tier 2 public notification is required.

c. Implementation of corrective actions to remediate the contamination

- i. Recommended to consult with Bureau of Water System Engineering prior to implementing corrective actions.

15) Establish a plan of action when your system fails to collect the required number of routine and/or repeat samples for a monitoring period

- a. Public notification requirement – Tier 3 within 365 days (40 CFR 141.204)
- b. Ensure collection of required number of routine and repeat samples in subsequent monitoring periods

Division of Water Supply & Geoscience Contact Information

- ☐ Bureau of Safe Drinking Water: 609-292-5550
- ☐ Bureau of Water System Engineering: 609-292-2957
- ☐ DEP Hotline (for off business hours): 1-877-WARN-DEP
- ☐ Bureau of Water Allocation and Permits: 609-984-6831

□ Bureau of Water Resources & Geoscience: 609-292-2576

ANCORA PSYCHIATRIC HOSPITAL

Standard Operating procedure For Force Main Air Bleed Cleaning

- 1. Collect all required hoses and pumps.**
- 2. Don Tyvek suit and set up traffic control measures.**
- 3. Remove manhole lid for Crispin valve vault.**
- 4. Drain water in vault (if applicable) to perform work.**
- 5. Connect RED pump hose to RED hose for lower valve.**
- 6. Connect BLUE discharge hose to BLUE hose for upper valve.**
- 7. Close 2" main valve at the bottom of Crispin Valve to isolate it from Force main.**
- 8. Open both ¾" inlet and outlet valves of Crispin Valve.**
- 9. Turn pump on and flush water through Crispin Valve for 10 minutes.**
- 10. Turn pump off.**
- 11. Close both ¾" inlet and outlet valves of Crispin Valve.**
- 12. Open 2" main valve at bottom of Crispin Valve and return to service.**
- 13. Clean area after placing manhole lid back on manhole.**

**Well #7 Operations
Standard Operating Procedure
For
Running Well For Emergency Use**

1. Go to old water treatment facility and make sure all pumps controls are in the AUTO position. Check all chemical feed valves are in OPEN position and open Chlorine cylinder and record weight. Record chemical levels.
2. Record Well #7 reading from meter.
3. Go back to well house. Open main 12" valve (Tagged Valve #1).
4. Turn Well ON.
5. Return to old water treatment facility and check that each pump (hexametaphosphate, Caustic soda and CL2 Booster pump is in operation and chlorine feed rate is at 5 pounds per day.
6. Operate well until notified to stop.
7. When emergency is over, turn off well.
8. Close main 12" valve (Tagged Valve #1).
9. Return to water treatment facility and turn all pump controls to OFF.
10. Turn off chlorine cylinder and record weight. Also record chemical levels.
11. Refill Caustic and Hexametaphosphate tanks.
12. Record total run time and gallons in Bound Log Book.

**Well #7 Operations
Standard Operating Procedure
For
Running Well Overboard**

1. Go to old water treatment facility and make sure all pumps controls are in the off position.
 2. Make sure main 12" valve is closed in the well house. (Tagged Valve #1).
 3. Close off 12" main valve in water treatment facility.
 4. Connect hose and meter to fitting to blow off by removing cap.
 5. Position hose as to avoid disturbing landscaping.
 6. Double check that the main valve to the system is turned off (Tagged Valve #1).
 7. Open 4" overboard valve 2 turns.
 8. Turn Well on.
 9. Run well for 15 minutes or 5000 gallons, whichever comes first.
 10. During run, take pressure readings and record.
 11. Turn Well off.
 12. Close overboard valve (Tagged Valve #2)
 13. Remove hose and fittings and replace cap.
 14. Open 12" main valve in water treatment facility.
 15. Record total run time and gallons in Bound Log Book.
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Ancora Psychiatric Hospital
Water Treatment Plant
Pump Valve Positioning for
EMERGENCY ON LINE USE

■ = Closed Valve
■ = Open Valve

