

Jim Palenick

From: Jim Palenick [jpalenick@dallasnc.net]
ent: Friday, December 20, 2013 12:18 PM
fo: 'Rick Coleman'; 'ronniemorrow@att.net'; 'jcmalker@gmail.com'; 'jjerry2@att.net';
'huggybarber@att.net'; 'hoylewithers@yahoo.com'
Cc: 'mstroupe@dallasnc.net'; 'David Kahler'; 'Doug Huffman'; 'Gary Buckner'; 'Steve Lambert';
'btrudnak@dallasnc.net'; 'amartin@dallasnc.net'; 'J. Thomas Hunn'
Subject: Town Manager's Weekly report (#57)
Attachments: NCDENR Recommend..pdf

Mayor & Board of Aldermen(Women):

Please accept the following as the **Town Manager's Report for the Week-ended Friday, December 20, 2013.**

- Earlier this week, in a correspondence dated December 17, 2013, we received notification from the North Carolina Department of Environment and Natural Resources (NCDENR), that following a series of on-site inspections at our water treatment plant in November and December, State regulators found a number of issues and/or circumstances which we need to improve and/or remedy in order to remain in compliance with Rules governing Public Water systems in the state. The correspondence (copy attached) will now form the basis for an action plan on the part of our Town engineer and Public Utilities Director to address each and every item noted by the State. Some items will require minimal (if any) additional costs, while others will clearly add to our Water/Sewer Budget in a significant way. Those that can be accomplished quickly will be taken care of promptly, while those that require greater evaluation or engineering, and possible contracting will be longer. But, all will be pursued with focus and diligence to satisfy the state.
- On Tuesday we publicly opened the bids for purchase of the two large transformers needed within the construction of our new substation project currently underway. We had good participation with at least six firms bidding. Our Engineer's estimate for this purchase was set at approximately \$800,000, and the bids came in ranging from a low of just over \$607,000 to a high exceeding \$750,000. So, depending on the final engineer's evaluation of the bid packages to determine if each bidder met all specifications and pending an evaluation of the overall long-term cost (taking maintenance spec. differences into account) we are assured of being under Budget, perhaps decidedly so. We expect to award this bid at the January 14th Board Meeting and you will have all of the specific bid data included in that Meeting packet.
- The 1997 GMC truck which had been approved for surplus and sale at the last Board Meeting was sold on the on-line government auction site "govdeals" this last week and achieved final sale proceeds of \$8,000.00 for the Town. Once again, we were very pleased and pleasantly surprised at the amount generated by the sale of what was a vehicle which had outlived its effective and useful life for the Town's purposes.
- Among other tasks this week, I have been finishing up the preparation of a Grant request to the Gaston-County-based Glenn Foundation, on behalf of the Dallas Historic Courthouse Foundation, for \$20,000 toward the estimated \$25,402.00 cost of fully furnishing and equipping the historic courthouse for its planned new life as a community and conference center. The deadline for this year's Grant cycle is March 3, 2014 and final grants will be awarded prior to the conclusion of the fiscal year (June 30, 2014). Since we will be looking to furnish and equip the building following construction activities, and since that is likely to occur around early to mid-Summer, the timing of this potential grant award will work out well.
- The Town's yearly employee appreciation Holiday luncheon was held yesterday at the Fire Hall and a large percentage of Town employees were in attendance for a catered buffet lunch from "Grandma Hoyts". Thanks to all the Aldermen/women who attended and shared in the fellowship.
- Next week, of course, is the week of Christmas and the Town will officially be closed to the public on Tuesday, Wednesday, and Thursday in keeping with the approved, official Holiday Schedule. For Trash routes, the normal Tuesday pick-up will occur on Monday; while the normal Wednesday and Thursday Pick-ups will be combined for pick-up on Thursday. This information is displayed on the town's Website.

- We have now received delivery of our 2, new large (blue) drop-off recycling bins that we purchased and they have been placed in the newly-prepared and relocated site just east of the existing site in the Cloninger Park Parking lot. As soon as we get the bins properly signed; the platform deck and steps installed; and some additional fencing erected; we will then make the new site available for drop-off disposal and will eliminate the old site. We hope this will occur a few weeks into the new year. Once in place, this site will not only be much more attractive and easier to use, but will save the Town significant costs in ongoing pick-up fees since the County will be providing the collection service.
- Since this is the last Report prior to the Holiday, allow me to extend my personal wishes to all for a very safe, joyous and blessed Christmas to each of you and to all of your family-members and loved ones. May you each find peace and joy and extend those feelings to all you encounter. Thanks for a great year!

Thank You.

James M. (Jim) Palenick
Interim Dallas Town Manager
210 N. Holland St.
Dallas, NC 28034
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jpalenick@dallasnc.net



North Carolina Department of Environment and Natural Resources

Division of Water Resources

Pat McCrory
Governor

Thomas A. Reeder
Director

John E. Skvarla, III
Secretary

December 17, 2013

Mr. Jim Palenick, Interim Town Manager
Town of Dallas
210 North Holland Street
Dallas, North Carolina 28034

RE: Town of Dallas
PWSID: NC01-36-065
Gaston County

Dear Mr. Palenick:

This letter is provided to inform you that a sanitary survey of the Town of Dallas' water system was conducted on November 7, 2013 in the company of Ms. Amelia Hamrick, Operator in Responsible Charge (ORC). Follow up visits were made on November 21, 2013 and December 4, 2013. The purpose of the sanitary survey and subsequent visits was to determine whether the water treatment and distribution facilities were in compliance with the requirements of the Division of Water Resources' Rules Governing Public Water Systems.

As a result of the sanitary survey, the following requests and/or recommendations are made:

1. It is requested that the EarthTec chemical feed line that has been connected to the raw water conduit immediately adjacent to the flash mix basin through the prechlorine feed system, be disconnected. The line should remain disconnected until a qualified professional engineer can evaluate the system and develop plans for review and approval by the Department.
2. It is requested that the surface wash supply line that has ruptured near the center of the filter box/chamber be repaired. The ruptured supply line will likely reduce the flow rate of water to the agitator, which can result in insufficient agitation. Overtime, insufficient agitation can lead to mudball formation and poor filtered water quality.
3. It is requested that the raw water pump, which is located at the river pump station and is not currently in service, be repaired.

It is also recommended that a raw water flow meter be installed such that the flow rate of raw water from the river pump station to the off-stream storage reservoir can be measured. Regular measurement of the flow rate can help to identify changes in raw water pump performance that may be indicative of a need for service.

4. It is requested that the monthly operating reports (MORs) be submitted to the Public Water Supply Section by the tenth day of the following month.

Monthly operating reports have not been regularly submitted by the tenth of each month.

5. It has been reported on several occasions that the raw water main between the river pump station and the off-stream storage reservoir has ruptured. As a result, it is recommended that a qualified professional

Public Water Supply Section – Jessica C. Godreau, Chief
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Phone: 704-663-1699 FAX: 704-663-3772
Internet: www.ncwater.org/pws

evaluate the condition of the main and develop plans for replacement and/or installation of a new transmission main, if replacement is needed.

It is also recommended that the conduit, which conveys wastewater from a filter backwash to the wastewater settling pond, be evaluated by a qualified professional as it has been reported that the pipe is ruptured between the water treatment plant and the settling pond.

6. As previously stated, it is recommended that jar tests be conducted on a regular basis to determine/confirm coagulation chemical dosages are optimum for treatment objectives.
7. As previously requested, the maximum flow rate of water through the filter has been limited to 1 million gallons per day (MGD) or 694 gallons per minute (gpm).
8. As previously stated, it is recommended that a qualified professional evaluate the feasibility of installing baffles within the existing clearwell. The addition of baffles should increase disinfectant contact time and as a result, reduce disinfectant dose requirements. As evidence of the current lack of baffling, a baffling factor ($T_{10}/T_{theoretical}$) has been found to approximately equal 0.16. (According to the Guidance Manual for Compliance with the Filtration and Disinfection Requirements for Public Water Systems, published by the U.S. Environmental Protection Agency, a baffling factor of 0.1 represents an unbaffled condition.)
9. Significant erosion has occurred on the upstream face of the raw water storage reservoir. The erosion appears to have resulted from a combination of wave erosion and erosion by waterfowl (i.e. Canada Geese) activity.

It has been reported that, as previously requested, the waterfowl have been removed from the area.

Although it is difficult to ascertain whether the erosion of the upstream face is affecting the raw water turbidity, it is clear that on windy days the turbidity near the perimeter of the impoundment is increased by the erosion. Therefore, it is recommended that wave protection (e.g. riprap armoring) be considered for the upstream face of the impoundment.

It is also recommended that a qualified professional assess the impoundment to determine if the current storage volume is sufficient to satisfy the North Carolina Administrative Code [Title 15A, Subchapter 18C, Rule .0710 (7) (c)], which requires a minimum of 5 days of off-stream storage.

10. As previously stated, the surface water diversion ditch that is located between the water treatment plant and the raw water storage reservoir has been enlarged to prevent surface water runoff from the water treatment plant parking area and bulk chemical storage area from entering the reservoir.

Although the ditch continues to function as intended, periodic cleaning of the ditch is needed to remove accumulated silt. To reduce the need for ongoing maintenance, it is again recommended that the sides of the ditch be flattened so that the ditch can be stabilized with vegetation.

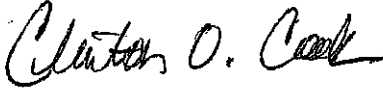
11. As previously requested, a professional engineer has evaluated the distribution system and has developed plans for replacement of a significant portion of the distribution system. In fact, it has been reported that a significant portion of the replacement project has been completed. Mr. Jeffrey Westmoreland, PE has requested that an update of the status of these replacement projects be submitted to the Mooresville Regional Office. Mr. Westmoreland may be contacted via email at jeff.westmoreland@ncdenr.gov.
12. As previously requested, the fluoride storage tank scale, which is located within the fluoride chemical feed building has been returned to operation.
13. As previously stated, the grate, which is located at the inlet to the raw water intake, has been damaged and may not provide adequate protection from debris. It is recommended that a qualified professional evaluate the grate and develop plans for repair and/or replacement.
14. As previously requested, a qualified professional has evaluated the structural integrity of the fractured masonry block/s and repairs have been made.

Finally, please note that a Lead and Copper Monitoring Audit has been completed. The audit consisted of a historical review of all lead and copper monitoring results, sampling pool locations/justifications, sampling protocol and instructions. As a result, of the audit the following requests are made:

1. In accordance with North Carolina Administrative Code, Title 15A, Subchapter 18C, Rule .1507 and Code of Federal Regulations, Title 40, Part 141.85 (d), consumers that are participating in the Lead and Copper monitoring program must be notified of the lead tap water sampling results, even if the results do not exceed the lead action level. The notice must also include specific language. As a result, a shell document has been developed and enclosed for use in notifying customers of lead tap water sampling results.
2. The audit revealed that all of the lead and copper sample sites that have been identified for the Town are listed as Tier 3 or Tier Other sites. It is recommended that the Town make an effort to identify sampling locations that meet the Tier 1 and Tier 2 criteria. Tier 1 sites are considered single family structures that contain copper pipes with lead solder installed after 1982 and before 1986 or lead pipes. Tier 2 sites are considered buildings, including multiple family residences, that contain copper pipes with lead solder installed after 1982 and before 1986 or lead pipes.
3. The sampling that was done in 2013 identified the sample that was collected at 216 Spargo Street with Location Code 016. However, the sampling site at 216 Spargo Street has been identified on the sample siting plan with Location Code 017. Please correct the location code for the sampling that was conducted in 2013 so that it matches the sampling pool spreadsheet.

If you have any questions or need any additional information, please feel free to contact me at (704) 235-2140.

Sincerely,



Clinton O. Cook, PE
Environmental Engineer
Public Water Supply Section

Enclosure

CC: Jessica C. Godreau, PE, CPM, Chief
Britt Setzer, PWSS Regional Engineer
Amelia R. Hamrick, ORC
Christyn Fertenbaugh

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

[Insert name of your water system] appreciates your participation in the lead tap monitoring program. This notice is to inform you of the lead tap monitoring results for the drinking water sample collected at the location identified below:

Street Address _____ City _____

Sample Collected Lab Results Received Lead Test Results/ Units Action Level/ Units MCLG

Date: _____ Date: _____ mg/L 0.015 mg/L 0 mg/L

The action level is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. The MCLG (Maximum Contaminant Level Goal) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

What are the Health Effects of Lead? Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development. **Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.** (40 CFR 141 Subpart Q, Appendix B)

Steps you can take to reduce your exposure to lead in your drinking water:

- **Run your water to flush out lead.** If water hasn't been used for several hours, run water for 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking.
- **Use cold water for cooking and preparing baby formula.**
- **Do not boil water to remove lead.**
- **Look for alternative sources or treatment of water.**
- **Test your water for lead.**
- **Get your child tested.**
- **Identify if your plumbing fixtures contain lead.**

Contact Information: Call us at [insert system's phone#] or (if applicable) visit our Web site at [insert Web site here]. For more information on reducing lead exposure around your home/building and the health effects of lead, visit the Environmental Protection Agency's (EPA) Web site at www.epa.gov/lead; call the National Lead Information Center at 800-424-LEAD; call the EPA's Safe Drinking Water Hotline at 1-800-426-4791; or contact your health care provider. If you have specific health concerns, you may want to consult your doctor. You may also contact your county health department using the following Web site: <http://www.ncalhd.org/county.htm>

Lead Consumer Notice Certification

The public water system named above hereby certifies that the Consumer Notice of Lead Tap Water Results has been provided to its consumers in accordance with all delivery, content, format and deadline requirements specified in 15A NCAC 18C .1507 [141.85(d)]. If applicable, this certification also affirms the Special Notification Requirements for distribution system samples were provided to consumers in accordance with 15A NCAC 18C .1523(c).

Owner/Operator: _____
(Signature) (Print Name) (Date)



Consumer

Notice

Of

Lead

Tap Water

Results

(Water system to fill in the blanks below)

Water System Name: _____

Water System No.: _____

Monitoring Period: _____

Date Notice Distributed: _____

Distribution Method: _____

For Official PWSS USE ONLY

LC _____
Initials SDWIS Date _____

PN _____
Initials SDWIS Date _____

INSTRUCTIONS FOR COMPLETING THE CONSUMER NOTICE OF LEAD TAP WATER RESULTS

(**Note:** This template can be used to satisfy both the public notification requirements listed below if the template is completed properly and the notifications and certifications are performed in the manner and timeframes specified for each.)

1. PUBLIC NOTIFICATION REQUIREMENTS - SPECIAL NOTIFICATION FOR DISTRIBUTION SYSTEM SAMPLES [15A NCAC 18C .1523(c)]: (template to be used for lead levels above the action level)

- **Reporting requirement:** Whenever a water sample that is collected from the distribution system and from property not owned or controlled by the water supplier exceeds the lead action level, the water system must inform the person authorizing the sample about their water quality results.
- **Timing of notification:** A water system must provide the consumer notice within **48 hours** of receipt of the analytical results.
- **Content:** The information to be provided must include the analytical results and the appropriate health effects language. **Note:** If you choose to use this template, complete the sample location address information, the date that the sample was collected and the date the lab results were received, and provide the analytical test results (units in ppb) for that sample location. The water system name, water system no., monitoring period, and the date and method of notice distribution must also be denoted in the spaces provided. The mandatory health effects language is already included in bold italics.
- **Delivery:** Written notice must be provided by mail or direct delivery to the person authorizing the sample.

**** Certification of Special Notice [1523(c)(3)]:** A copy of the written notice and certification of delivery must be submitted to the State within **10 days** of completing the notification. Be sure to provide the distribution date and the method of distribution in the spaces provided on the template.

2. PUBLIC NOTIFICATION REQUIREMENTS - LEAD AND COPPER SHORT-TERM REVISIONS [15A NCAC 18C .1507 [40 CFR 141.85(d)]:

- **Reporting requirement [141.85(d)(1)]:** All water systems must provide notice of the individual tap results from lead tap water monitoring to the persons served by the water system at the specific sampling site from which the sample was taken (e.g., the occupants of the residence where the tap was tested.) **Note:** Sites sampled should have been selected from your Lead and Copper Sample Siting Plan. If the locations differ from your existing plan, submit a revised plan to the appropriate Lead and Copper Rule Manager.
- **Timing of notification [141.85(d)(2)]:** A water system must provide the consumer notice as soon as practical, but no later than **30 days** after system learns of tap monitoring results.
- **Content [141.85(d)(3)]:** The information to be provided must include the analytical results of the tap that was tested, an explanation of the health effects of lead, steps consumers can take to reduce exposure to lead in drinking water and the water system's contact information. The maximum contaminant level goal (MCLG) and action level for lead and the definitions of these two terms must also be included. **Note:** If you choose to use this template, complete the sample location address information, the date that the sample was collected and the date the lab results were received, and provide the analytical test results (units in mg/L) for that sample location. The water system name, water system no., monitoring period, and the date and method of notice distribution must also be denoted in the spaces provided. The mandatory health effects language, the MCLG and action level values and definitions, and the steps for reducing exposure are already included in italics.
- **Delivery [141.85(d)(4)]:** The consumer notice must be provided to persons served at the tap that was tested, either by mail or by another method approved by the State. Community systems can provide notice by mail and need to include notice to those who do not receive a water bill but still use the water from the sampling site. Non-transient, non-community systems can post the notice to allow consumers to review the information. Where testing occurs in buildings with many units (e.g., an apartment building) the notification must be provided to each individual unit that was tested (i.e., notification does not need to extend to the entire building).

**** Certification of Lead Consumer Notice [1507(141.90(f)(3))]:** No later than **3 months** following the end of the monitoring period, each system must mail a sample copy of the consumer notification of tap results to the State along with a certification that the notification has been distributed in a manner consistent with the requirements specified in 141.85(d), which is outlined above.

**** After issuing the required notice(s) to your customers, sign and date the "Lead Consumer Notice Certification" at the bottom of the notice. Mail the completed notice/certification form to the appropriate Lead and Copper Rule Manager at the Public Water Supply Section, 1634 Mail Service Center, Raleigh, NC 27699-1634 within the required time frames as specified above. Keep a copy for your files.**