

# EAST BURLINGTON WASTE WATER TREATMENT PLANT OVERFLOW UPDATE

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Presented By:



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# EBWWTP SUMMARY

- Built in 1959
- Capacity to treat 12 MGD
- Average flow of 4-5 MGD
- Serves Burlington, Elon, Gibsonville, Haw River, Green Level
- ~ 8 million dollar upgrade in 2013 to comply with Jordan Lake Rules



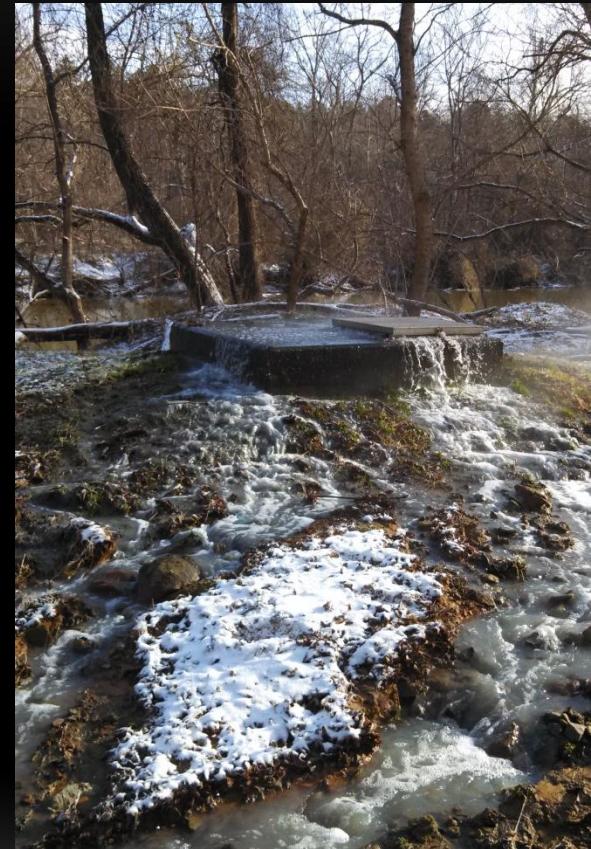






# RECENT OVERFLOWS @ EBWWTP

- Friday (1/24/2014) – 28,500 gallons
- Monday (1/27/2014) – Wednesday (1/30/14)  
– 3.5 million gallons







# EAST BURLINGTON WWTP

## 3.5 MGD SSO SUMMARY

- Monday, 6:20 PM – Pipe Failure
- Monday, 6:35 PM – Pump Station shut down
- Monday, 7:20 PM – Notified Emergency Management of SSO
- Monday, 11 PM – 8” Pump Activated
- Tuesday, 1 AM – 8” Pump Activated
- Tuesday, 11 AM- 3PM – 16” Pump parts delivered (Snow/Ice)
- Tuesday, Midnight – Equipment Failure, construction delayed
- Wednesday, 2:25 PM – 16” Pump Activated
- Wednesday, 3:40 PM – SSO eliminated
- Thursday, 10:30 AM – DENR staff visited site
- Thursday, 5:38 PM – Press Release
- Saturday, 5 PM – 30” Force Main Repaired

City of Burlington  
staff and  
NCDENR staff in  
constant  
communication

# EAST BURLINGTON WWTP

## 3.5 MGD SSO ENVIRONMENTAL IMPACTS?

- No observed negative environmental impacts
- No fish kill observed
- Pittsboro WTP samples indicate no deviation from baseline sampling
- Haw River ~ 180 MGD
  - SSO ~ 1.8 MGD or about 1% of flow



# PROBABLE CONTRIBUTORS TO PIPE FAILURE

- Pipe laid directly on blue granite rock
- Unusually cold temperatures
- Freeze/thaw effect
- Increased pressure on line due to plant upgrade





# EAST BURLINGTON WWTP

## REPAIR PLAN

- Replace ~1200' of 30" Force Main
- Delivery of Pipe expected – Feb 24, 2014
- Bypass pumping until new 30" force main installed

