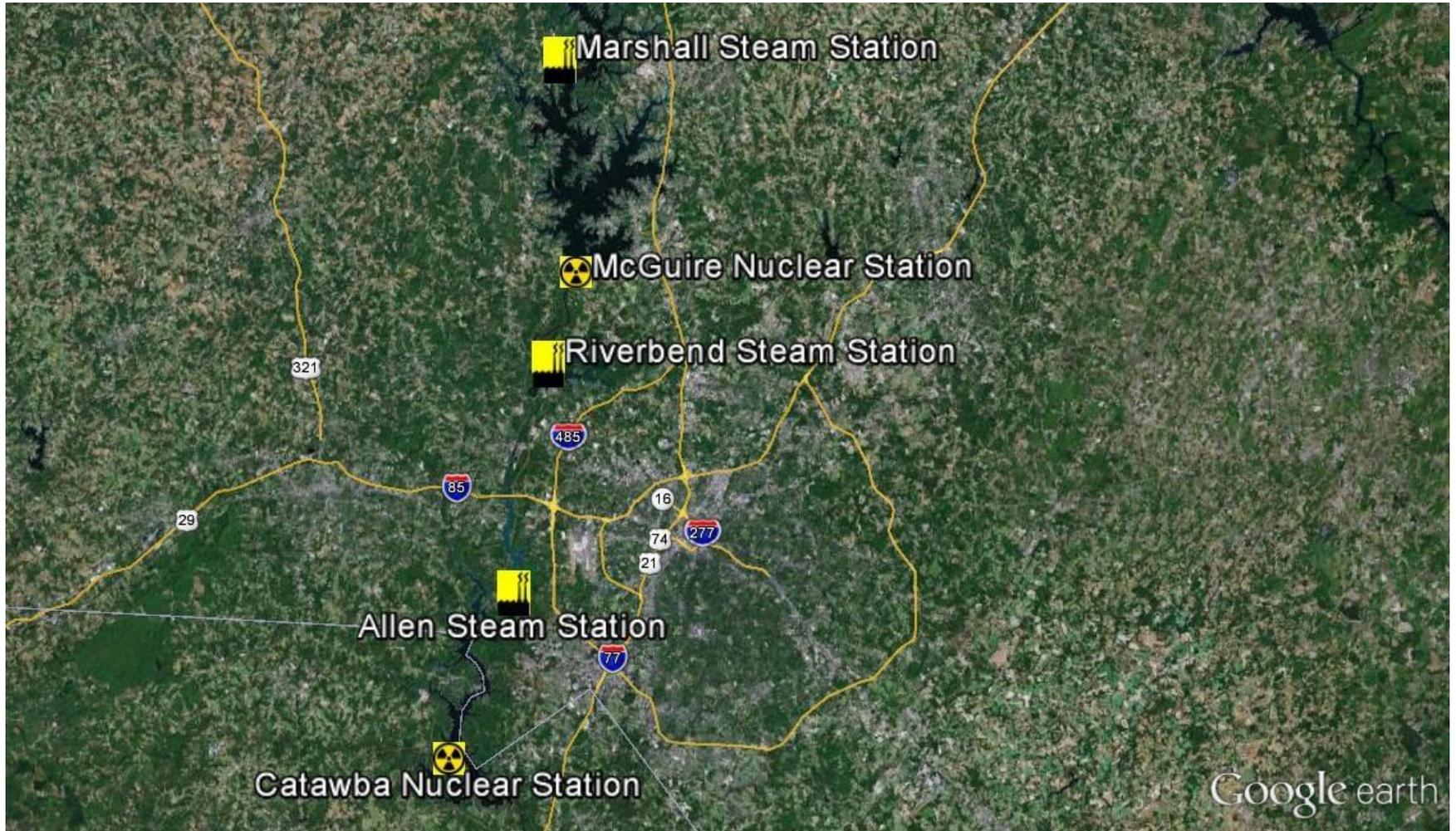


CATAWBA RIVERKEEPER UPDATE

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Charlotte-area Power Plants



Coal Ash

- SCE&G powerplant on Wateree River (Eastover, SC)
- Groundwater contamination (arsenic)
- CRF filed suit May 2012
- Settled August 2012, agreeing to:
 - Completely remove ash in unlined ponds and move away from river
 - Switch to dry ash handling with lined basins
- Ahead of schedule!!!

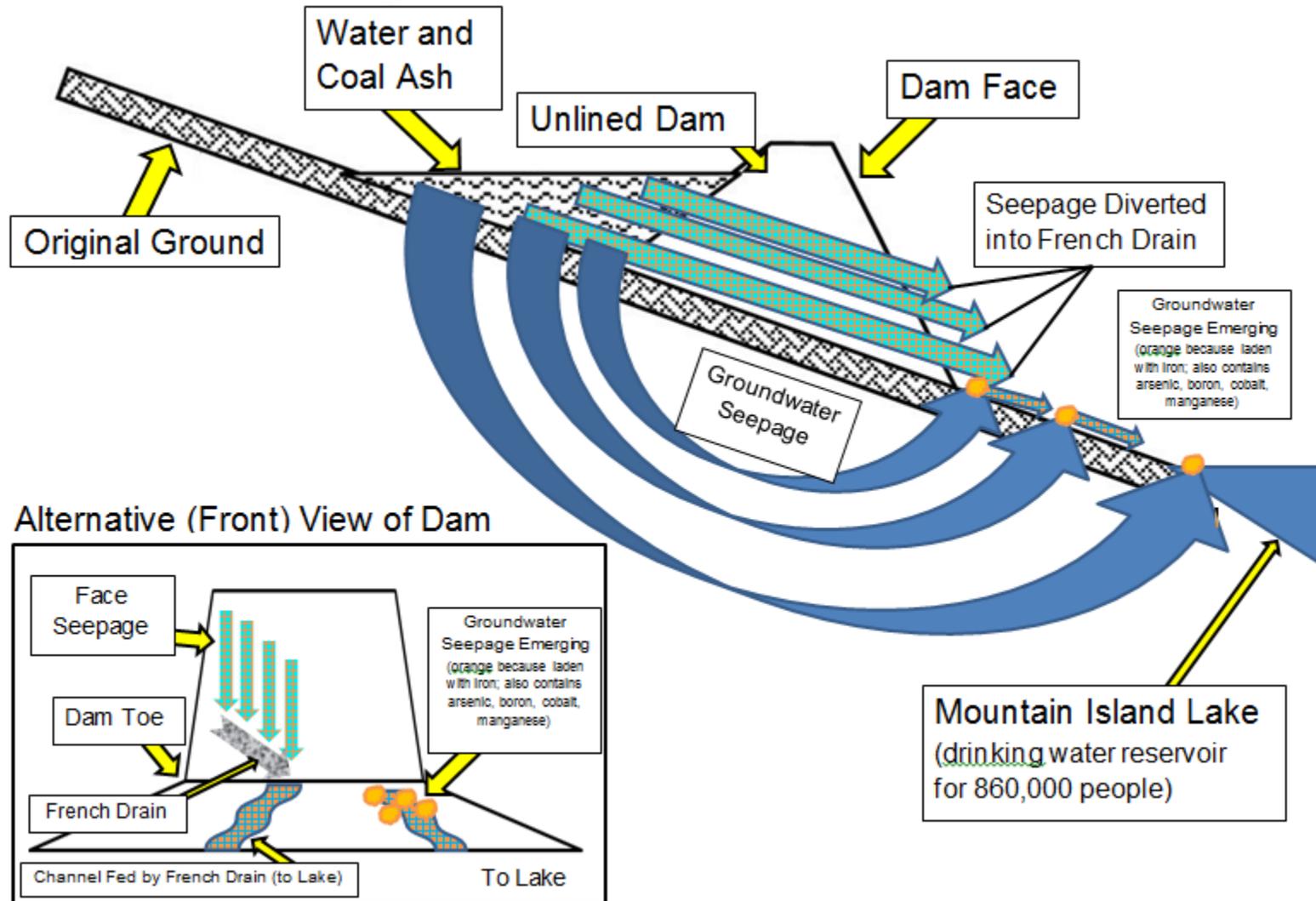


IN THE UNITED STATES DISTRICT COURT DISTRICT OF SOUTH CAROLINA COLUMBIA DIVISION		
CATAWBA RIVERKEEPER FOUNDATION, INC.)	
)	
PLAINTIFF,)	CASE NO. 3:12-CV-00124-JFA
)	
v.)	
)	
SOUTH CAROLINA ELECTRIC & GAS COMPANY, A SUBSIDIARY OF SCANA CORPORATION,)	
)	
DEFENDANT.)	

SETTLEMENT AGREEMENT AND RELEASE		



Coal Ash Pond Diagram





Interactive Map (Lake Wylie)

- <http://goo.gl/maps/XUMtl>
- Pictures, locations, descriptions

Google

Get directions My places

Collaborate **EDIT**

Allen Steam Station (Lake Wylie) Seepage (Maps Classic)

Click on the points for pictures and information.

At Allen Steam Station, the lagoons are leaking all along the eastern edge. These lagoons hold back millions of tons of coal ash and industrial waste from the power plant. These discharges to Lake Wylie are unpermitted (thus, illegal) and have contaminant levels that exceed state regulations.

Public - 53 views
Created on Sep 5 - By - Updated Sep 5
Rate this map - Write a comment - KML

Allen-Seep-L and Allen-Seep-R
View of the seepage from the water. The seeps appear as a broad wet, orange shoreline with multiple channels in the sand. These seeps emerge because of the tremendous head pressure created the c...

Allen-BullSeep
Two channels converge and enter Lake Wylie. Named "Bull Seep" for its resemblance to bull horns and its heavy flow. Click picture to enlarge. +35° 10' 37.50", -81° 0' 21.78"

200 ft
100 m

© 2012 Google

Map Traffic

sam@catawbariverkeeper.org

Edit in Google Map Maker Report a problem

What Needs to Be Done

- Clean up site
 - ‘Leave it as you found it’
 - Place material in lined landfill
 - SCE&G precedent
 - Continues to operate on Wateree River, but ended wet handling
- Document library
 - <http://www.catawbariverkeeper.org/issues/coal-ash-1/documents-related-to-coal-ash-lawsuits/>
- Why?
 - Groundwater contamination
 - Seeps have proved unpredictable
 - Potential for failure
 - Water supply threat
 - Maximum contamination will peak decades from now
 - ‘Other’ material buried

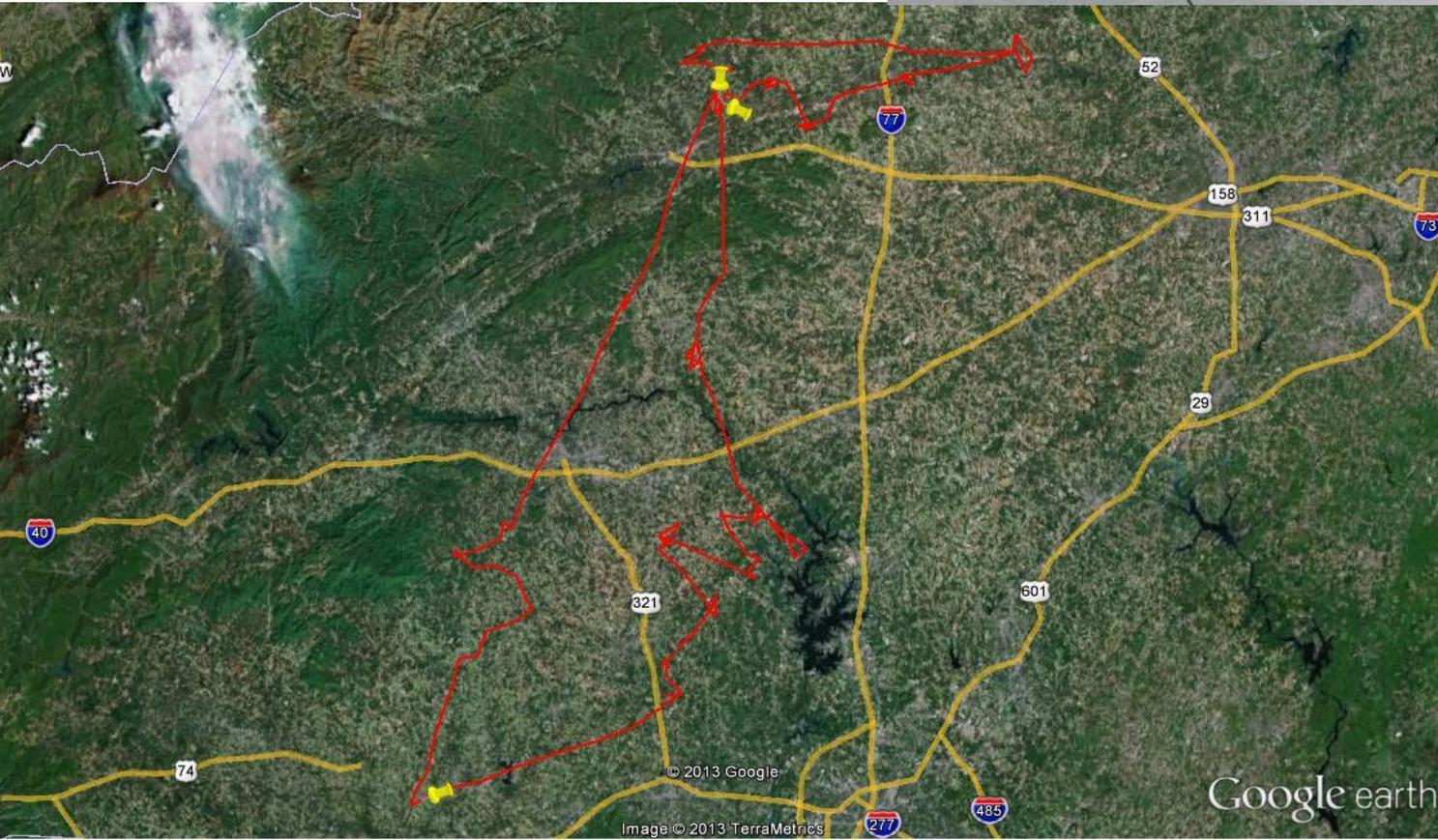
CAFOs

- Concentrated Animal Feeding Operations
 - 1 swine, ~15 cow, ~600 poultry houses
- Discovering extent of poultry
 - Poultry have exception from public record; difficult to investigate
- Waste piles: nutrient, bacteria and even a metal problem
 - May be stored uncovered for up to 15 days
- Major water users (2,000 gallons/house/day)



CAFOs

- 6 flyovers
- 15 sites reported to DENR



Sludge

- Byproduct of wastewater and drinking water treatments
 - AKA 'residuals' or 'biosolids'
- Spread on fields, and farmers get free nutrients!...
 - ...But too many nutrients...
 - ...and metals, pharmaceuticals... and PCBs?
- Extreme odor and ensuing health issues
- **Up to 1,700% Phosphorous increase in soil over 4 years**
- Class B: <2,000,000 bacteria/gram
- Class A: <1,000 bacteria/gram
- Rock Hill ended its spreading program earlier this year



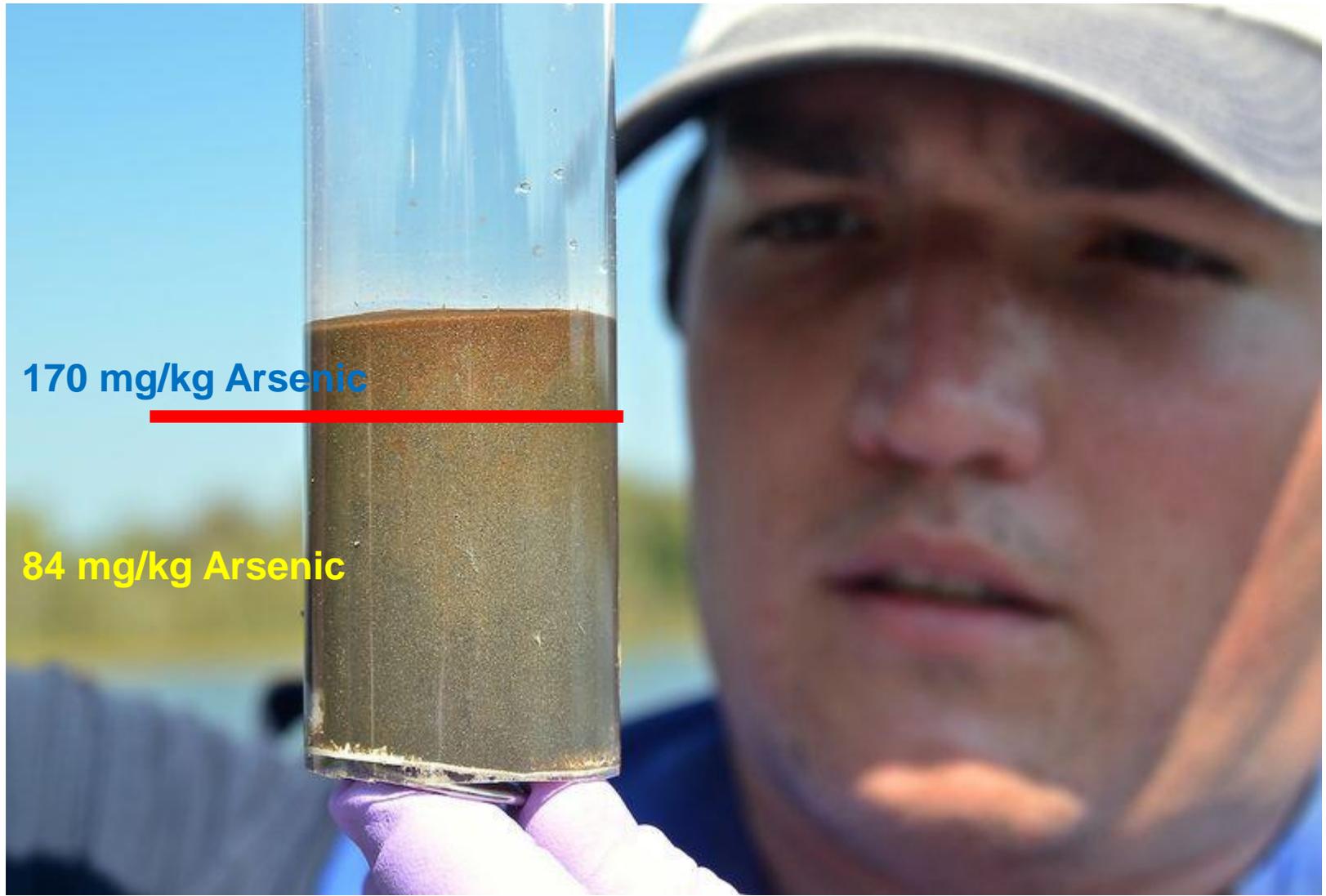
Ok, so I wasn't done with coal ash...

- Coal ash, meet sludge
- If arsenic prefers oxygenated environments and sorbs (sticks) to particles efficiently, will it show up in the drinking water treatment sludge?
- Legal limit of 75 mg/kg arsenic for any sludge sample that is to be spread
- Data review in Raleigh
- Every drinking water treatment plant that separately tests its sludge

A fraction of one year's reports...



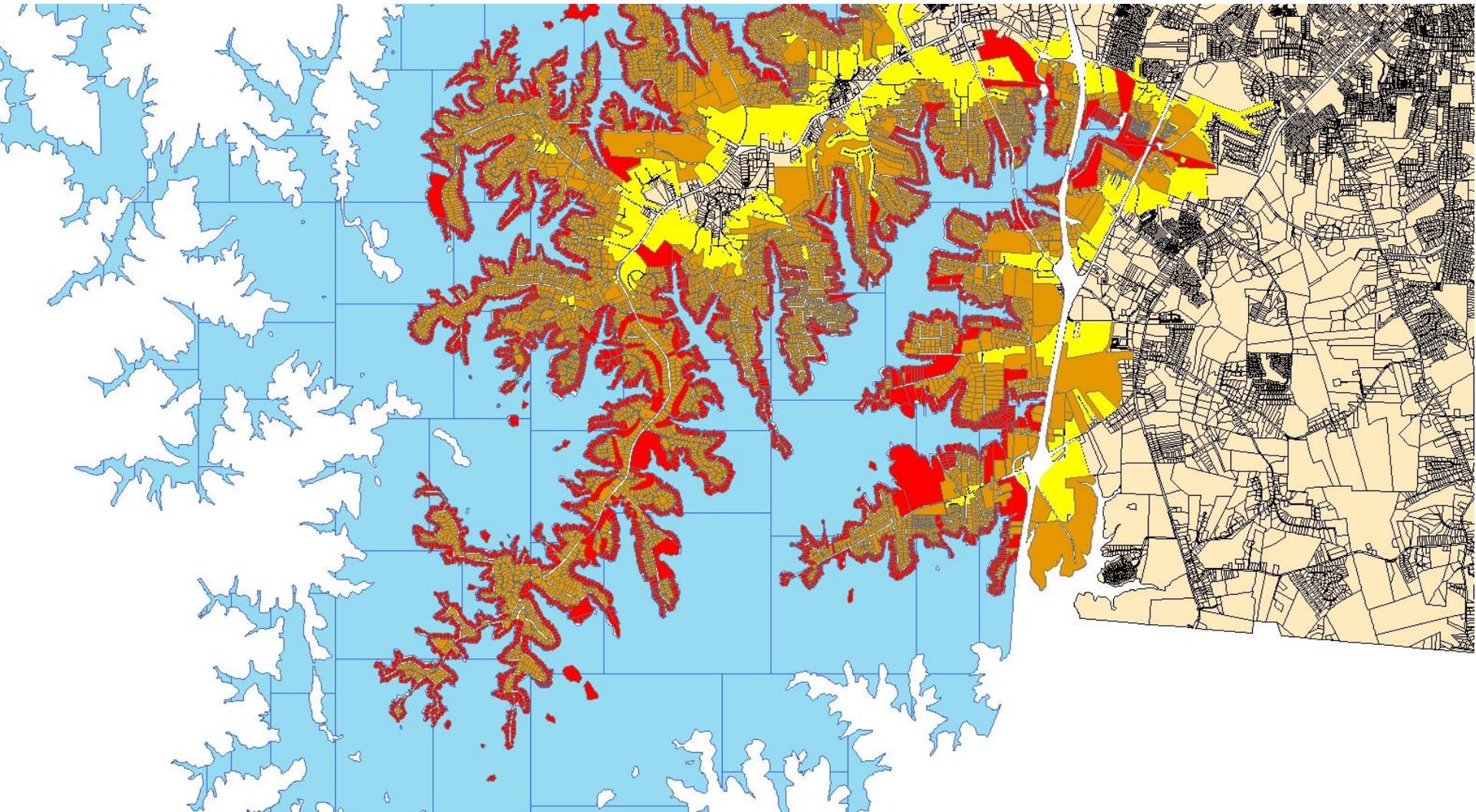
Sediment



Economic Impact

- The Value of Good Water
 - Property tax value/base near waterways
 - Performing for each lake in basin
 - Coordinate with Realtors
 - Emphasize importance of good environmental regulations to local governments
 - [Assume they still have that authority]
 - GIS analysis
 - Properties waterfront, $\frac{1}{4}$ mile from lake/river, $\frac{1}{2}$ mile from lake/river

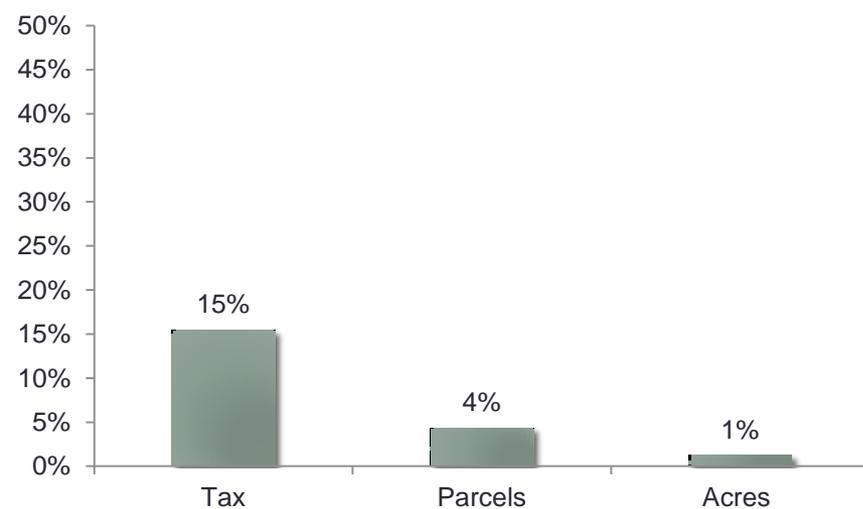
Economic Impact



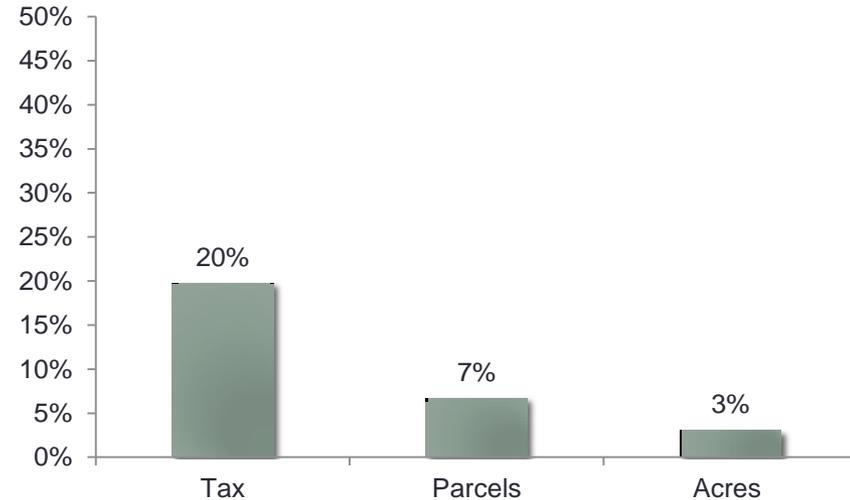
Economic Impact

- Disproportionate representation of tax base to acreage

Lincon County Lakefront



Iredell County Lakefront



Water Quantity

- **Good:** Union-Norwood tie-in
- **Bad:** Concern with Lake James being able to be dropped 50 ft
- **Ugly:** Need for MIL/LW notification
 - Some Riverside residents not notified of flooding in May
 - Marine Commission and HOA Support
 - “Watch the weather”?!
 - At least \$10,000s of damage

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Contact to get e-updates, links, documents