



Discuss Budget Proposal for Interim Measures to Begin Addressing Coal Ash Clean-up and Monitoring

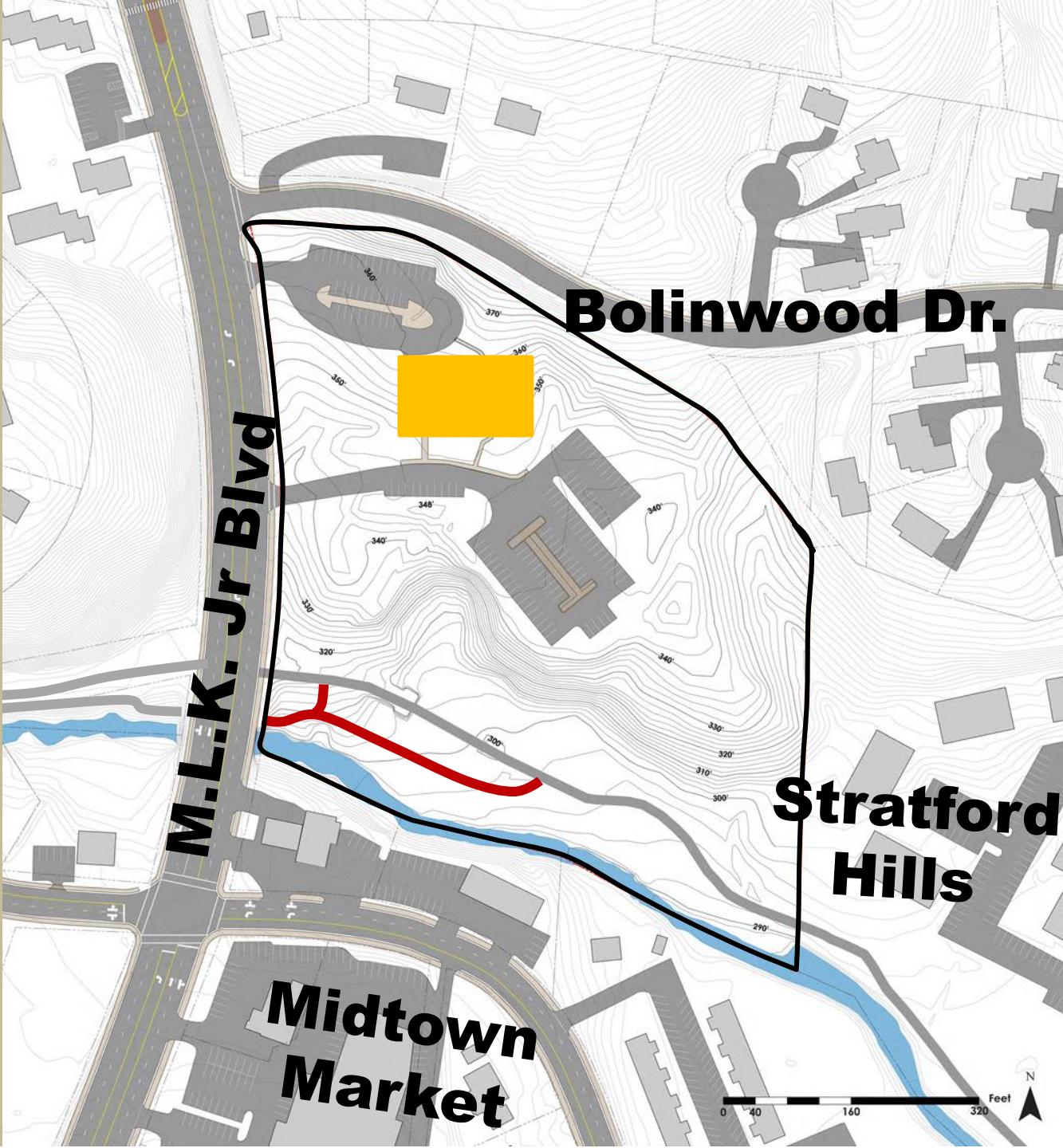
May 15, 2019



Police Station Property

828 Martin
Luther King Jr
Blvd

- Police Station
- New Bolin Creek
Greenway Connection

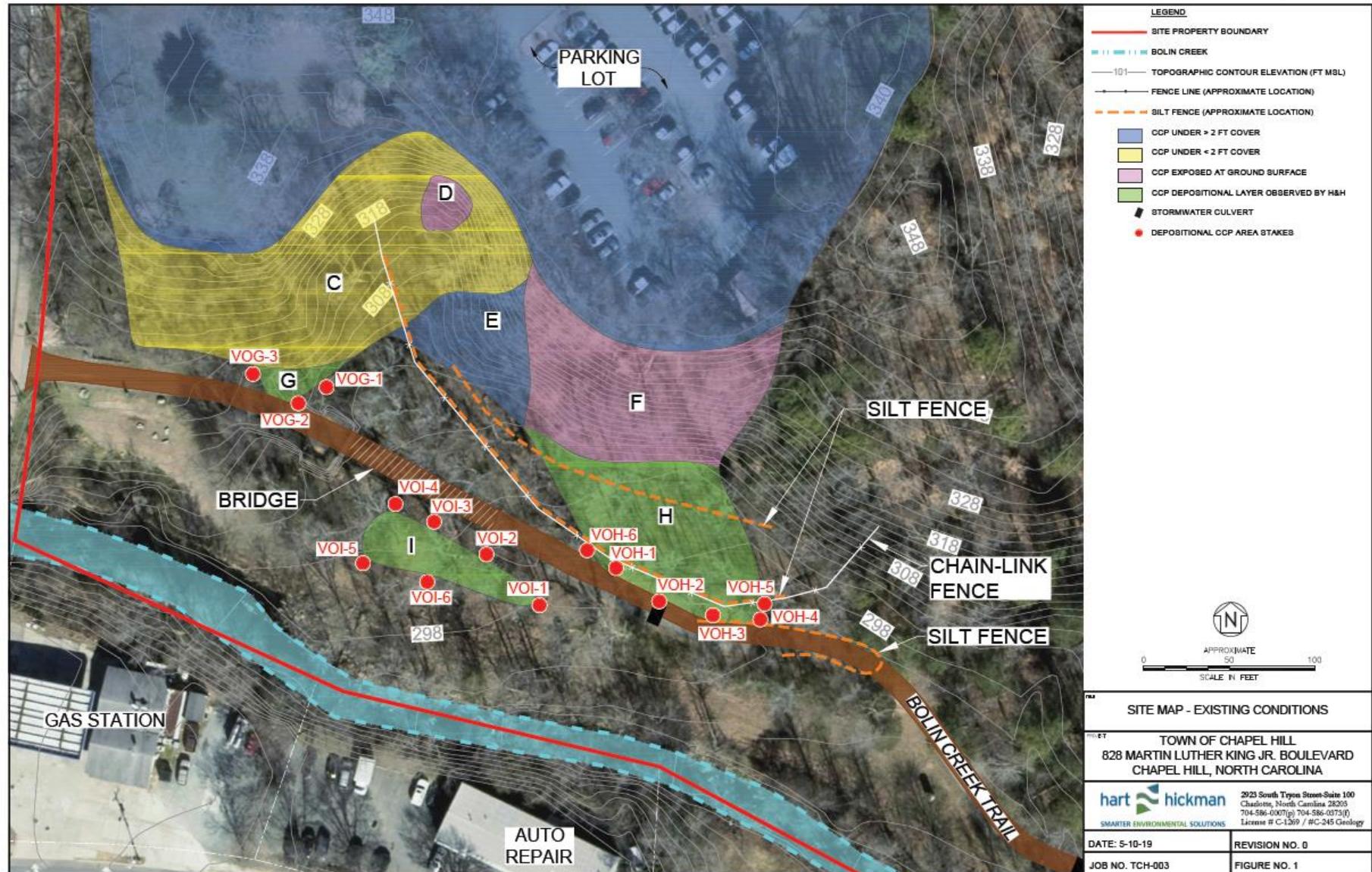


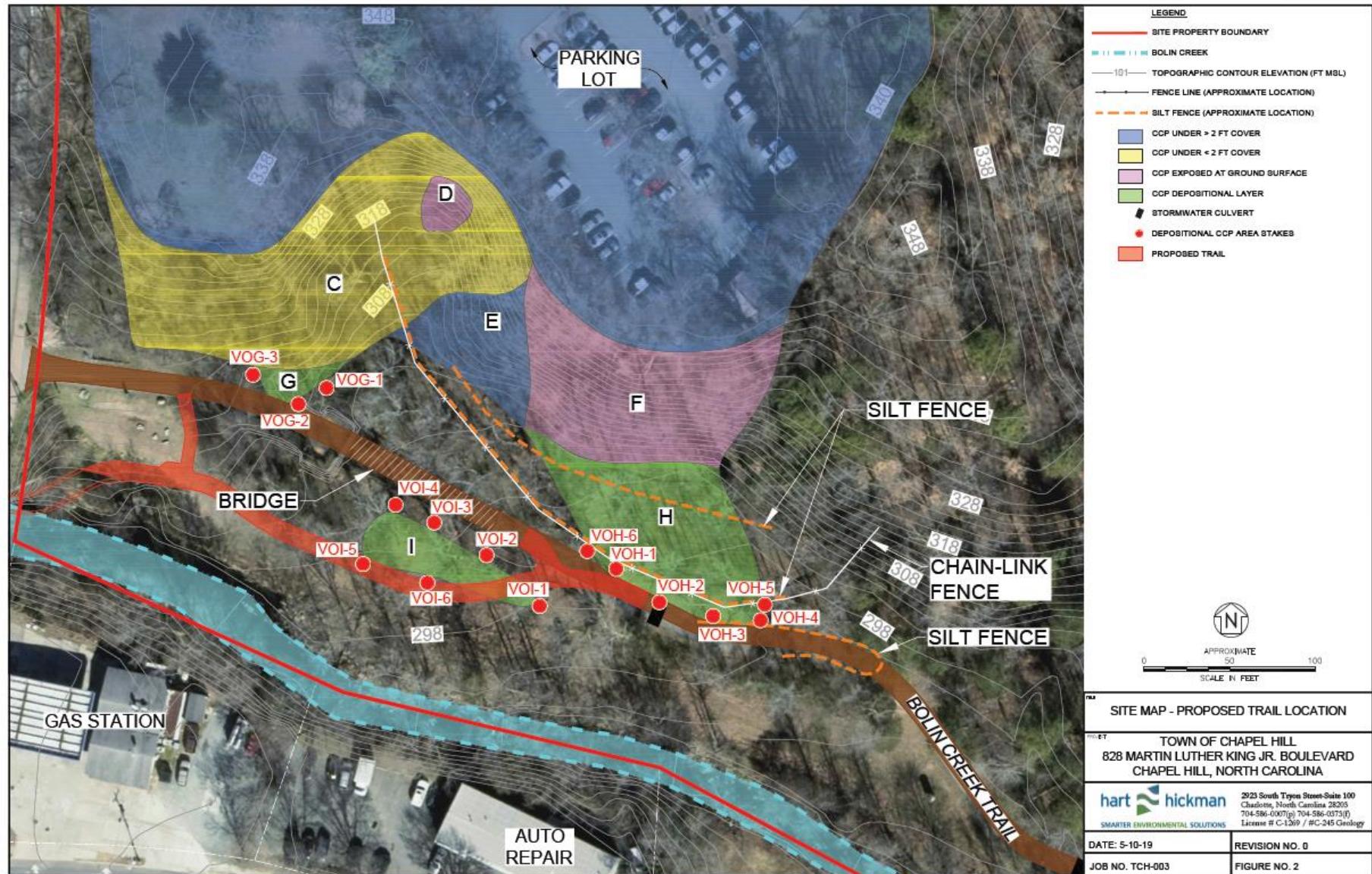




Coal Ash Disposal Site
Remediation Project

TownofChapelHill.org/coal-ash





Options for Consideration

- \$315,000 Investment:
 - Begin clean-up and continue managing and monitoring coal materials in the area closest to Bolin Creek;
 - Maximize safety for people using the Bolin Creek Greenway
- Anticipate Police Station relocation within 2-3 years
- Measures estimated to last 3-5 years

Bolin Creek Trail Risk Assessment

By:

David L. Duncklee, P.G.

Kenneth M. Rudo, Ph.D.



DUNCKLEE & DUNHAM
ENVIRONMENTAL GEOLOGISTS & ENGINEERS

HYDROGEOLOGY • ENGINEERING • BROWNFIELDS • REMEDIATION

Our Work Scope

- Human Health Risk Assessment
 - Toxicologist
 - Data Gap Sampling (April)
 - Interim Measures Evaluation
 - Trail Construction Project
- Ecological Risk Assessment
- Report



Comparison to NCDEQ Risk Evaluation

- NCDEQ used different calculator tool in 2016
- We used new NCDEQ Risk Calculator Tool
 - EPA risk data changed slightly
 - Tested additional coal ash samples, higher levels of contaminants found than in 2014 data set
 - Six metals higher, arsenic and manganese the most prominent
- We used more conservative default assumptions across the board
- We used new data set collected after recent storms



Key Findings, So Far

- 52 Additional Samples Collected
- Using Worst Case Scenarios, Evaluated Risk for 17 Contaminant Pathways
- Found Elevated Risk with 2 Current Pathways:
 - Future Construction Worker – Arsenic and Manganese non-cancer risks from soil
 - Recreational User – Arsenic non-cancer risks from soil exposure
- No cancer risks exceeded NCDEQ or USEPA criteria
- No increased risk for adolescent exposures along or in Bolin Creek



Completing the Greenway Project and Opening the Bridge Underpass



- Manage Risk to Construction Workers with Proper Training
- There is Currently Risk To Trail Users By Crossing Martin Luther King, Jr. Blvd.



Interim Measures to Keep Trail Open

- These Measures Control Risk to Recreational Users of Greenway Trail
 - a) Surficial Soil Removal / Backfill
 - b) Additional Signage Along Trail
 - c) Polling of Users
 - d) Additional Silt Fencing
 - e) Limit Embankment Disturbance
 - f) Periodic Inspections and Sampling
- Post-Construction Sampling and Update Risk Assessment



Next Steps

- Complete Underpass
- Signage on Path
- Interim Measures
- Post-Construction Sampling
- Report to Update Risk Assessment and Include Ecological Risk Assessment



Questions?

