



Item Overview

Public Hearing – 03/13/2017

Agenda # 4

Subject: Presentation of Findings from Phase II Remedial Investigation for Town Property at 828 Martin Luther King Jr. Boulevard, Chapel Hill, North Carolina

Staff:

Lance Norris, Director

Wendy Simmons, Solid Waste Services Manager

Department:

Public Works

Overview: On behalf of the Town of Chapel Hill, Hart & Hickman, PC conducted a Phase II Remedial Investigation for the Town property located at 828 Martin Luther King Jr. Boulevard, Chapel Hill, North Carolina. On January 30, 2017, Hart & Hickman submitted the attached Phase II Remedial Investigation Report to the North Carolina Department of Environmental Quality (NC DEQ). The report was provided to the Council and posted [on the Town's webpage](#)¹ for this project. Hart & Hickman will be presenting an overview of their findings from the report.



Recommendations

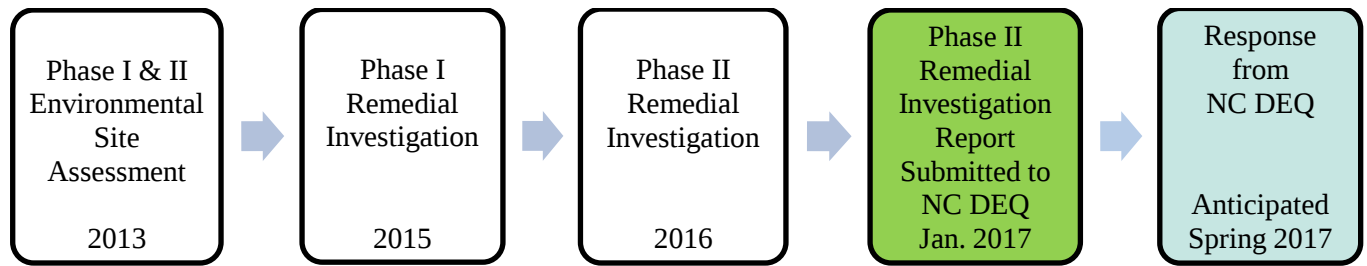
That the Council receive the report and presentation.

Key Issues

- The Phase II Remedial Investigation Report provides a summary of previous soil and groundwater testing done at the property by Falcon Engineering and results of additional testing conducted by Hart & Hickman to better quantify the full extent and environmental impacts of the coal ash fill materials on the site.
- The Phase II Remedial Investigation Report provides a more comprehensive analysis of coal ash related impacts on the site and will serve as the basis for future approaches to mitigating these impacts.
- The Town Manager directed that all greenway construction work on the Town property at this site stop until there has been an opportunity to consider the results of the Phase II Remedial Investigation work. If this section remains unbuilt after the greenway project is otherwise complete and open for use, the Town will install signage to direct greenway users to the crosswalk at Umstead Drive and Martin Luther King Jr. Blvd. to access the downstream sections of the trail.

Fiscal Impact/Resources: No fiscal impact at this time. Our consultants can quantify fiscal impacts after the NC DEQ makes a determination regarding remediation requirements.

¹ <http://www.townofchapelhill.org/town-hall/news-events/current-issues/coal-ash-disposal-site-remediation-project>

Where is this item in its process?**Council Goals:**

☐		Create a Place for Everyone	☐		Develop Good Places, New Spaces
☐		Support Community Prosperity	☒		Nurture Our Community
☐		Facilitate Getting Around	☐		Grow Town and Gown Collaboration

**Attachments:**

- Draft Presentation
- Linked material: [Phase II Remedial Investigation Report](http://www.townofchapelhill.org/home/showdocument?id=34458)²

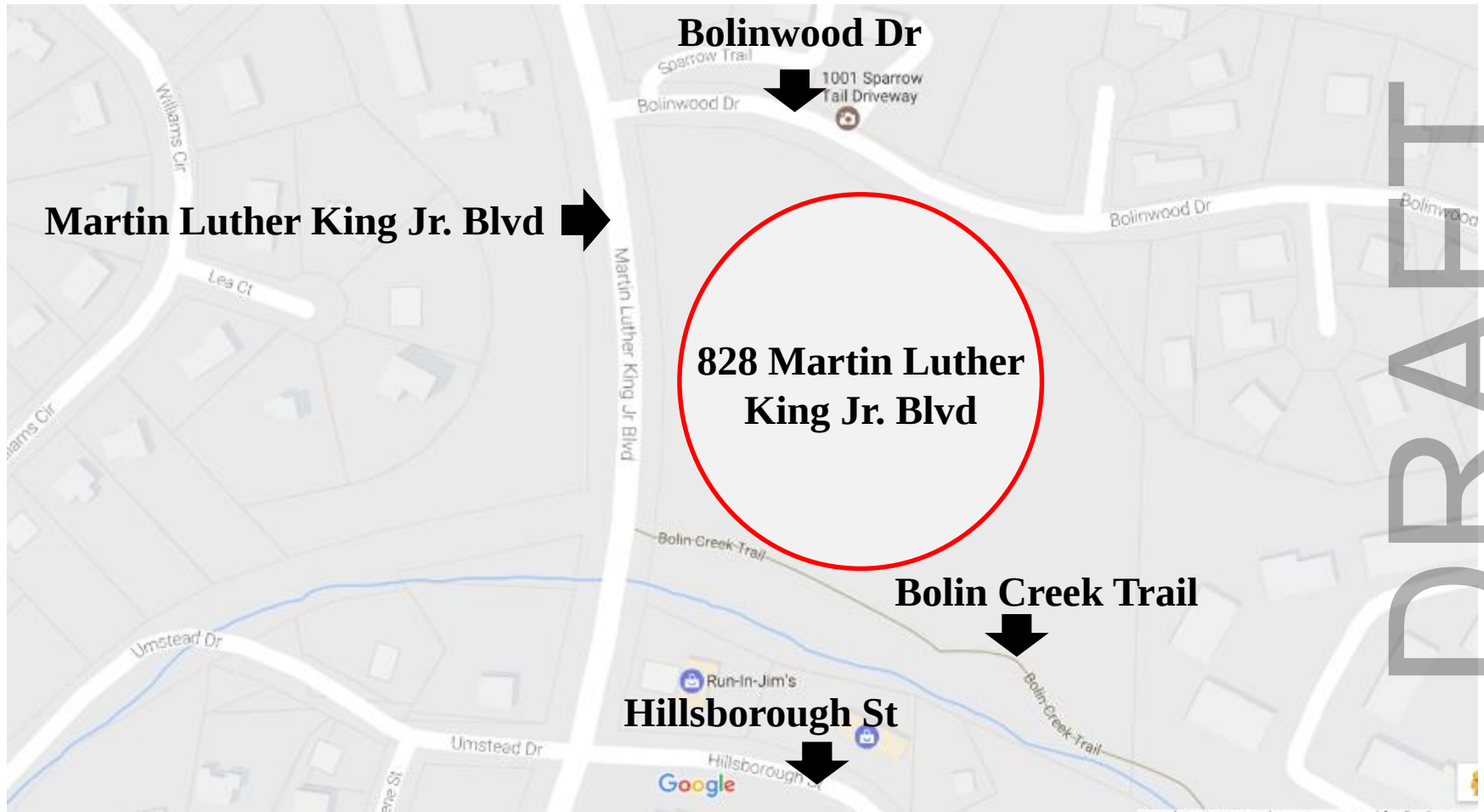
² <http://www.townofchapelhill.org/home/showdocument?id=34458>



Presentation of Findings from Phase II Remedial Investigation for Town Property at 828 Martin Luther King Jr. Blvd Chapel Hill, NC

March 13, 2017

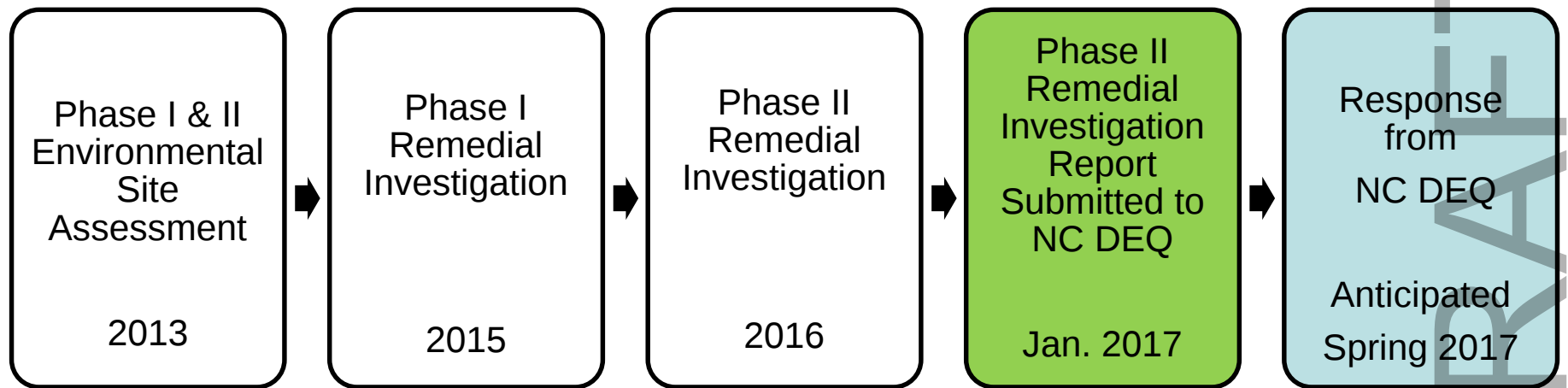
Site Location



Action Taken



Where is this in the process?



Outline

- Introduction
- Site History
- Coal Combustion Products (CCP) Information
- Previous and Recent Assessment Activities
- Results of Assessment Activities
- Next Steps

Site History



Area Where
CCPs Placed

“Elevated Area”

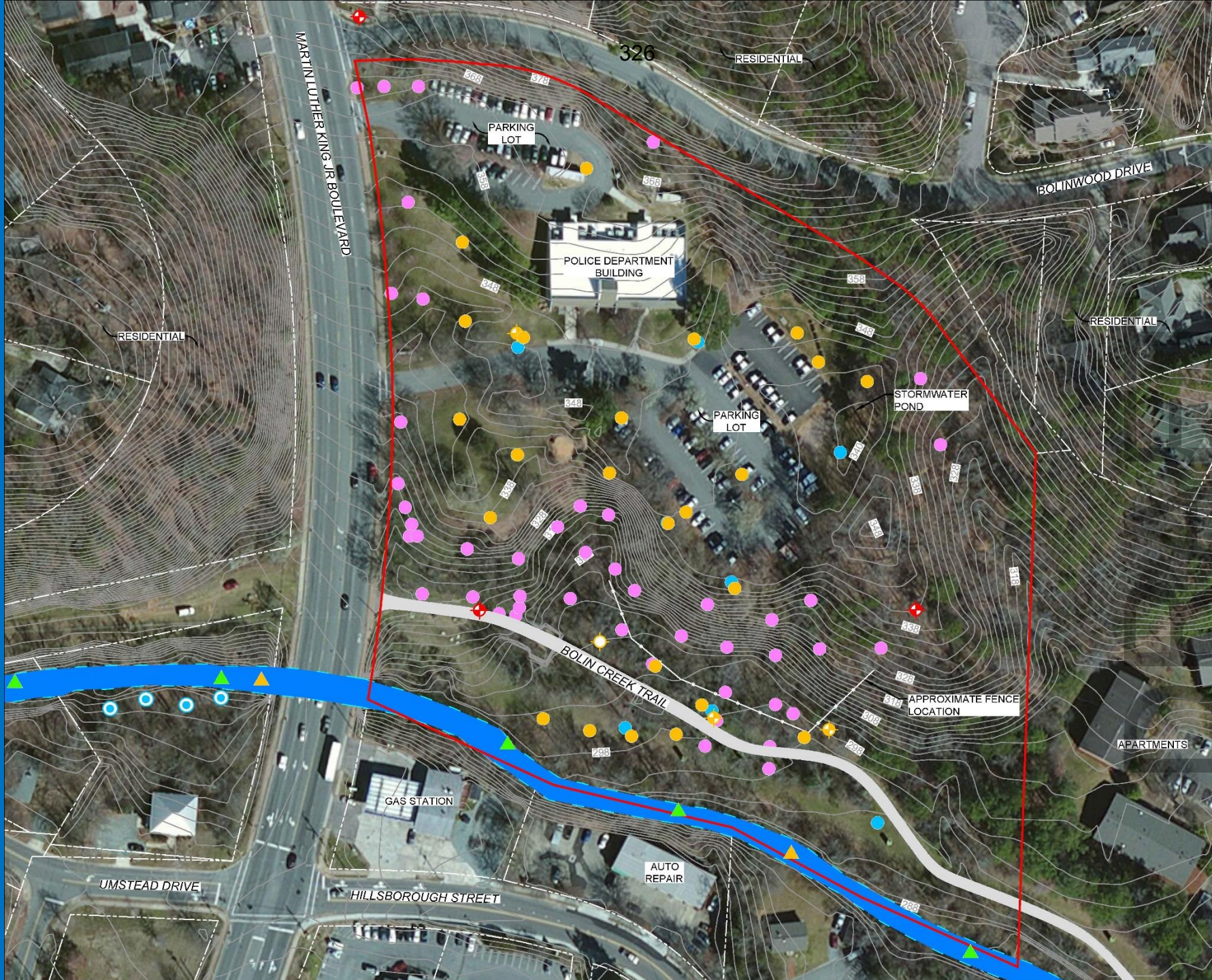
“Embankment”

“Lower Area”

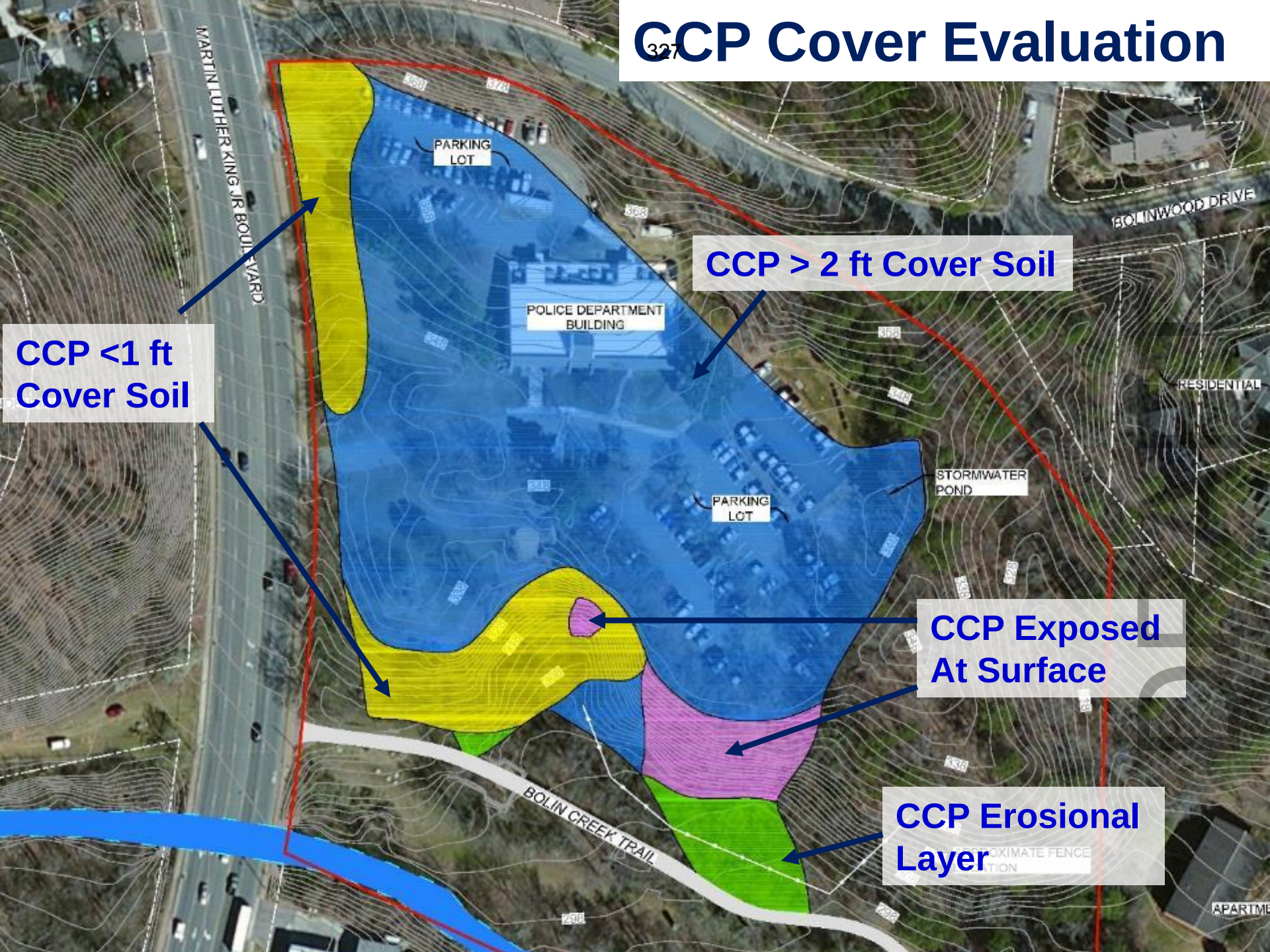
Coal Combustion Products Information



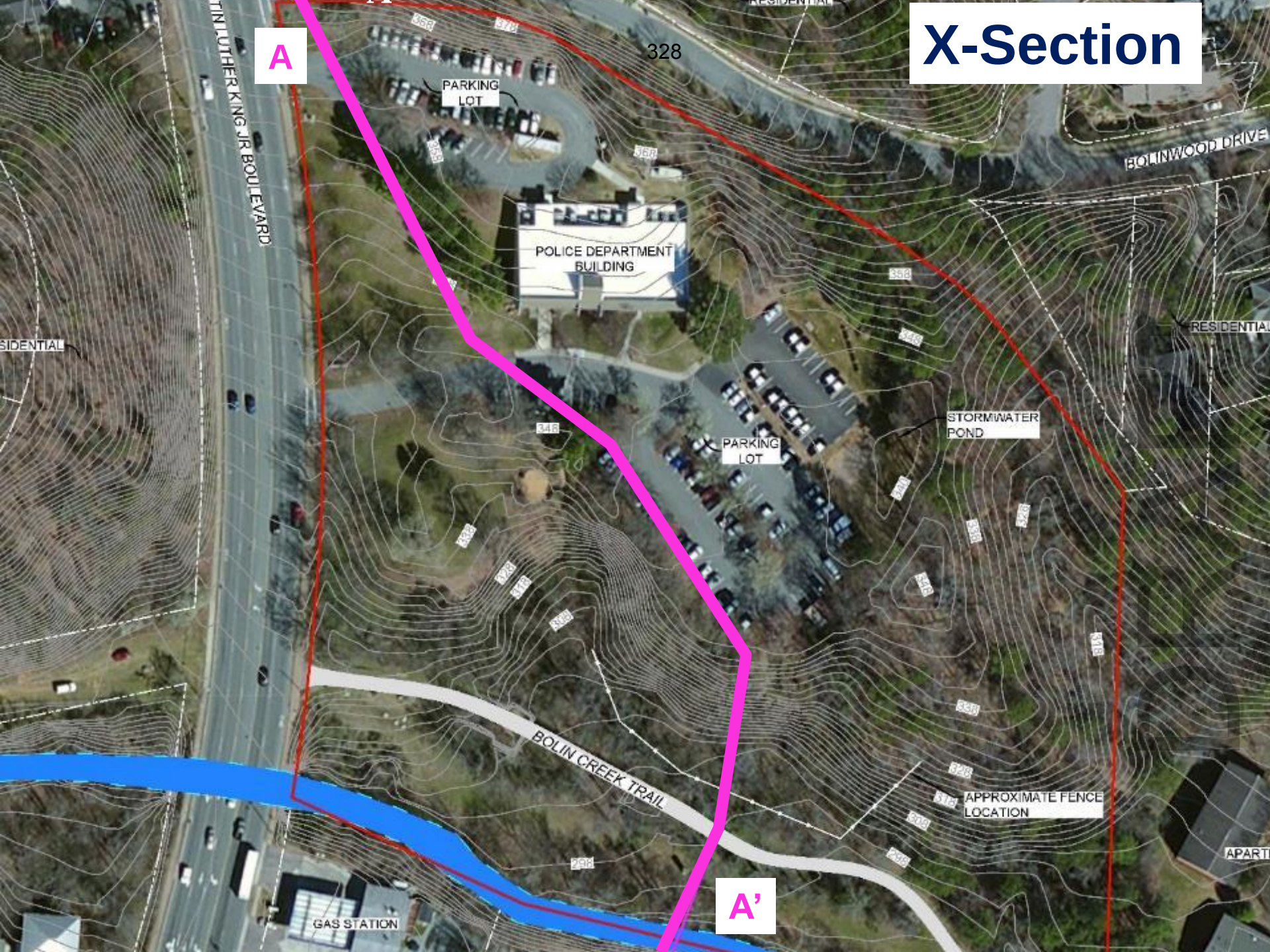
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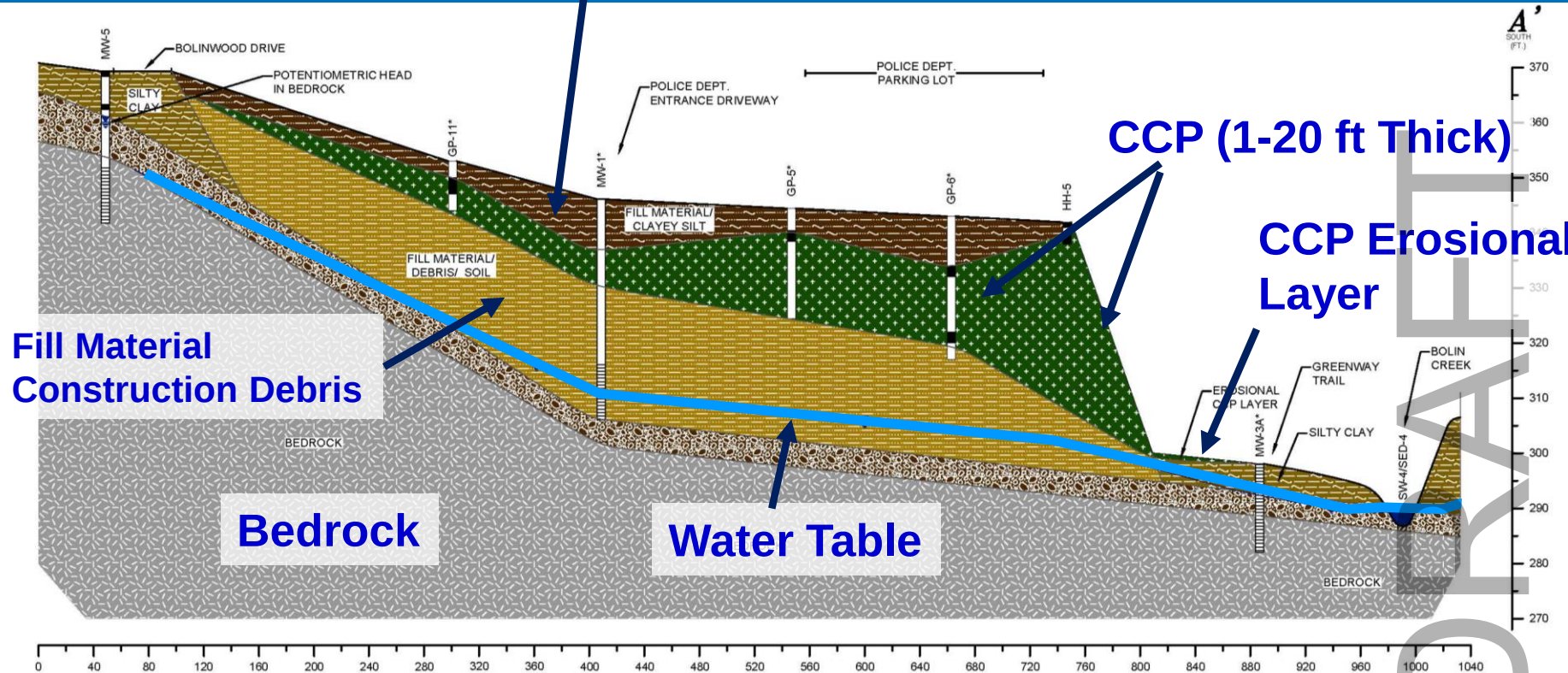
CCP Cover Evaluation



X-Section



CCP Cover Soil



Coal Combustion Product Cover Evaluation

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CCP <2 Ft Cover



CCP Exposed At Surface



CCP Erosional Layer

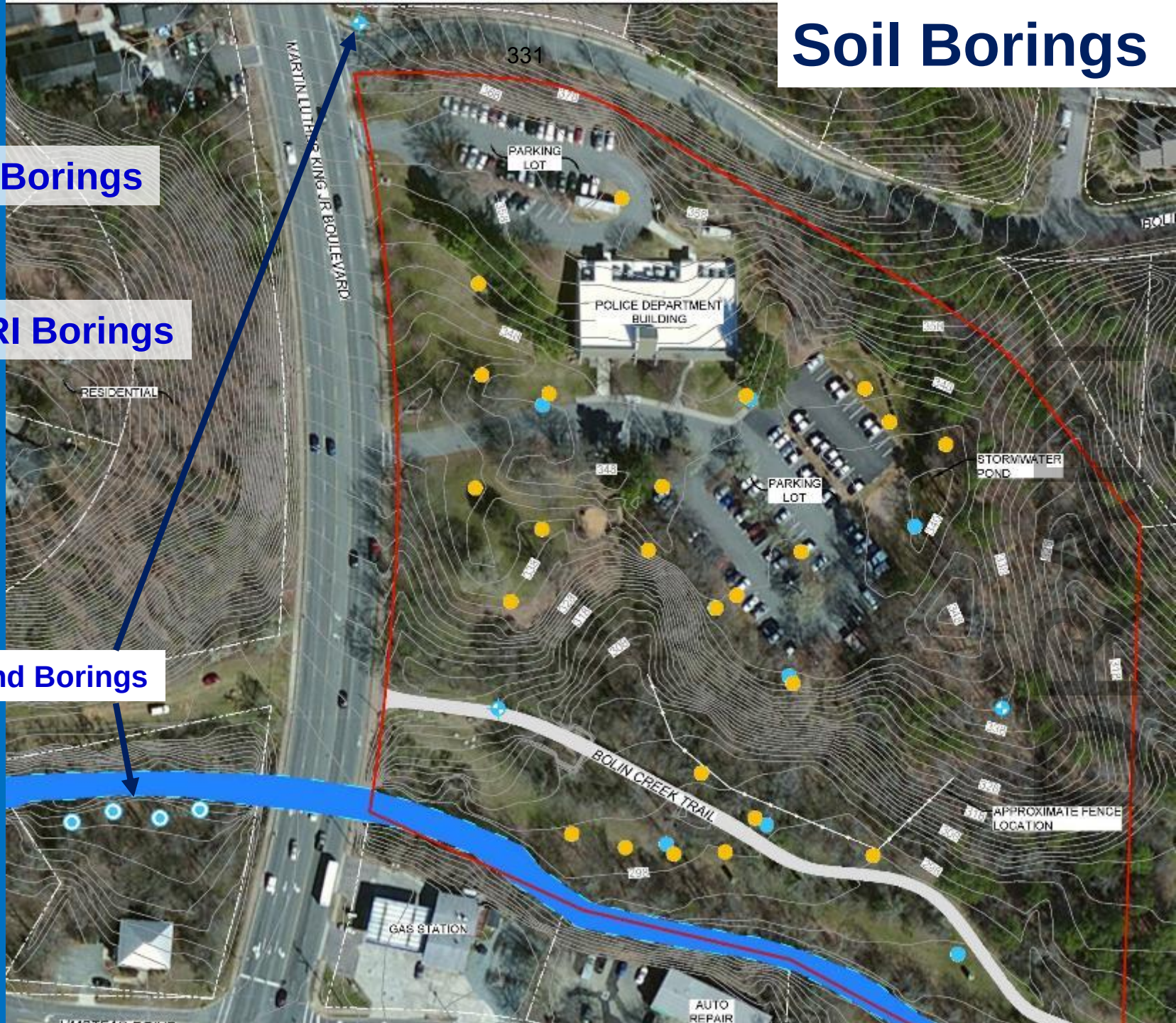
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Soil Borings

Previous Borings

Phase II RI Borings

Background Borings



Soil Data Summary

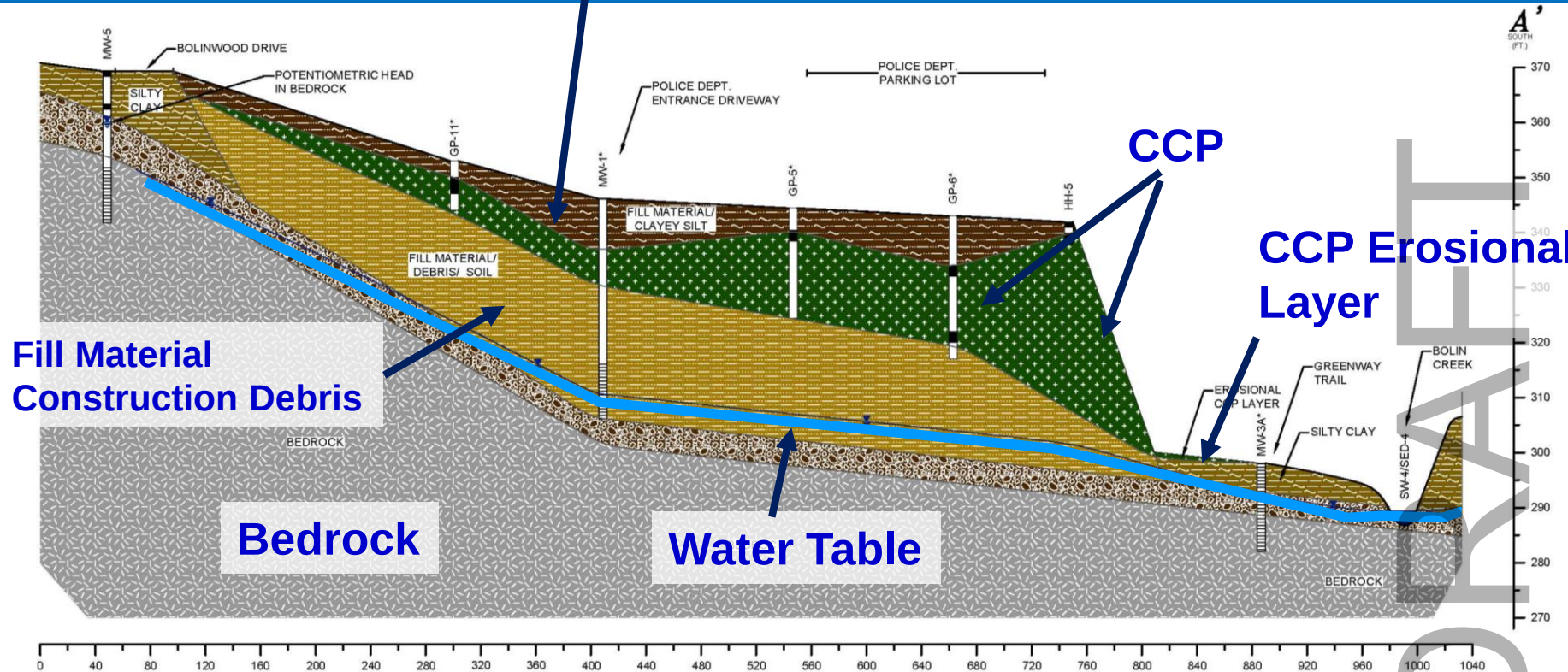
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- Primary Compound Present in CCP is Arsenic
- Primary Compound Detected in Cover Soil and Along Bolin Creek Trail is Arsenic
- Previous DEQ Risk Evaluation Indicated Acceptable Risk for Use of Trail and Construction Along Trail
- Other Than Small Area on North Side of Trail, Areas of Exposed CCP Difficult to Access (Fence, Steep Grade)

Groundwater



CCP Cover Soil



Groundwater

MW-5

MW-1

COBALT	5.0
MANGANESE	8,000
VANADIUM	1.2 J

MW-7

VANADIUM	1.1 J
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MW-6

CHROMIUM	29
MANGANESE	2,500
VANADIUM	1.2 J

MW-3A

SELENIUM	52
THALLIUM	5.3 J
VANADIUM	0.95 J

MW-4A

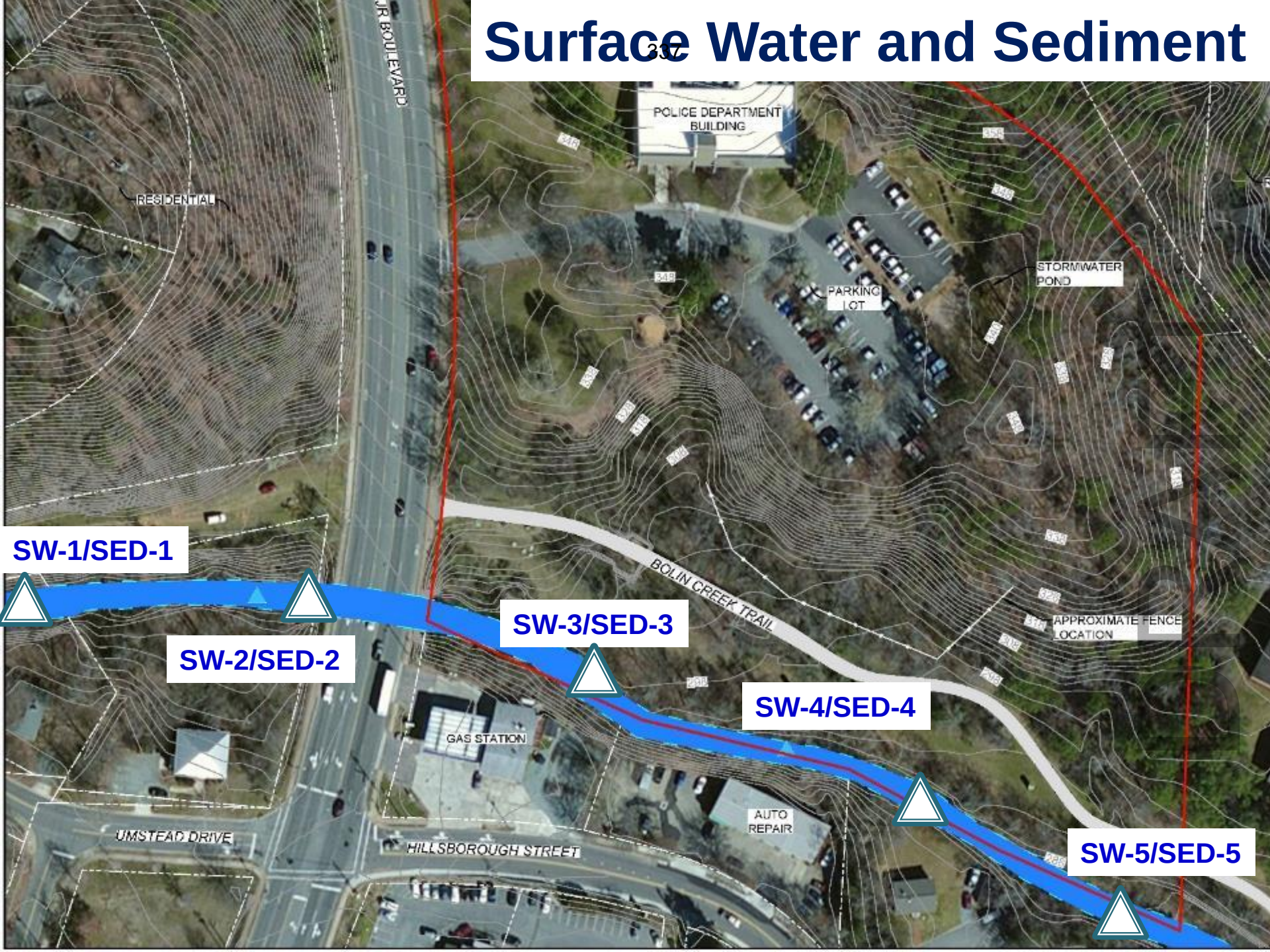
ALL < BACKGROUND
& 2L STANDARD

	NC Standard (µg/L)	Background (µg/L)
Co	1	0.27 J
Mn	50	580
V	0.3	0.39 J
Cr	10	<5
Se	20	23
Tl	0.2	<2.5

- **Groundwater Impacts Present Below CCP Fill Area**
- **Primary Compound Present in Groundwater is Manganese**
- **Metals Migration Expected to be Low Based upon Aquifer Conditions**
- **No Groundwater Users in Area**

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Surface Water and Sediment



Next Steps

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- Phase II RI Report in Review by DEQ
- Remedial Action Plan (RAP)

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Questions?

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