



Western Piedmont Council of Governments

Greater Hickory Metropolitan Planning Organization

Technical Coordinating Committee (TCC)

Wednesday, May 25, 2022, 1:00 PM

WPCOG Offices—1880 2nd Ave NW

wpcog.org/metropolitan-planning-org

Agenda Item	Presenter	Attachment	Action
Call to Order / Introductions	Randy Williams		
Minutes of April 27 2022 Meeting	Randy Williams	Attachment I	Approve Minutes
Transportation Improvement Program Revisions for NC Board of Transportation	Brian Horton	Attachment II	Approve by Resolution
Endorsement of Bicycle and Pedestrian Planning Grant for City of Conover	Brian Horton	Attachment III	Approve by Resolution
Consent Items	Randy Williams		Approve by Consent
Natural Environment Update for 2050 MTP	Averi Ritchie	Attachment IV	Information Item
Financial Plan Scenario for 2050 MTP	Brian Horton	Attachment V	Information Item
NCDOT Updates	Sean Sizemore		
Division 11	Anil Panicker		
Division 12	Hannah Cook		
Division 13	Pam Cook		
Transportation Planning Division			
Public Comment / Announcements	Randy Williams		
Adjournment	Randy Williams		
Next Meeting: June 22, 2022			



**GREATER HICKORY
METROPOLITAN PLANNING ORGANIZATION (MPO)**
1880 2nd Avenue NW, PO Box 9026
Hickory, NC 28603



MINUTES
GREATER HICKORY METROPOLITAN PLANNING ORGANIZATION (GHMPO)
METROPOLITAN TECHNICAL COORDINATING COMMITTEE (TCC)
Wednesday, April 27, 2022 @ 1:00 PM
In-person meeting and via Zoom

Present			Absent		
First Name	Last Name	Representing	First Name	Last Name	Representing
Blake	Wright	Town of Maiden	Chase	Winebarger	Town of Sawmills
Caroline	Kone	City of Hickory (1 of 2)	Chuck	Mullis	Town of Long View
Chris	Timberlake	Catawba County	David	Moose	Alexander County
Elizabeth	Kruger	Town of Catawba	Jenny	Wheelock	City of Lenoir
Erik	Schlichting	City of Conover	Leah	Martin	City of Claremont
Greg	Wilson	Town of Granite Falls	Logan	Shook	Town of Hildebran
John	Marshall	City of Hickory (2 of 2)			
Jon	Greer	Town of Hudson			
Pam	Cook	NCDOT-TPD			
Phillip	Lookadoo	City of Morganton			
Randy	Feierabend	Town of Cahah's Mountain			
Randy	Williams	City of Newton			
Rick	Justice	Town of Rhodhiss			
Shane	Prisby	Burke County			
Shelley	Stevens	Caldwell County			
Sherri	Bradshaw	Town of Drexel			
WPCOG, FHWA, & Guests			NCDOT Staff		
Alison Adams – WPCOG			Sean Sizemore – Div. 11		
Brian Horton – WPCOG			Anil Panicker – Div. 12		
Jess Odette – WPCOG			Dean Ledbetter – Div. 12		
Loretta Barren – FHWA			Mark Stafford – Div. 12		
			Tom Watson – Div. 12		
			Chris Guffey – Div. 13		
			Hannah Cook – Div. 13		
			Marshall Williams – Div. 13		
			David Wasserman – STIP		
			Alexius Farris – IMD		

Call to Order and Introductions – Chair Williams called the meeting to order and welcomed all present at 1:05 PM. Introductions were made around the room, followed by those participating remotely, which included TCC members Caroline Kone, Phillip Lookadoo, and Greg Wilson. Upon a motion by Mr. Wright and a second by Mr. Marshall, the TCC unanimously approved the remote participation of the listed TCC members.

Action Items:

- I. **Approval of Minutes** – Chair Williams asked members if they had a chance to review the minutes from the March 23, 2022, TCC meeting. Without objection, Chair Williams added Item I to the Consent Agenda.
- II. **Transportation Improvement Program (TIP) Revision for Board of Transportation** – Mr. Horton presented the TIP revisions previously released for public comment and noted that no comments had been received. Without any member objections, Chair Williams added Item II to the Consent Agenda.

- III. Transportation Improvement Program (TIP) Revision for City of Hickory** – Mr. Horton noted this TIP revision supported the recently endorsed Congestion Mitigation Air Quality (CMAQ) application received from City of Hickory for C-5196 Sandy Ridge Road to add \$502,146 in supplemental CMAQ funding for right-of-way, plus add \$1,000,000 in supplemental CMAQ funding for construction. Without any member objections, Chair Williams added Item III to the Consent Agenda.
- IV. Release of New TIP Revisions** – Mr. Horton presented new TIP revisions that correspond to those also released by the Board of Transportation. Without any member objections, Chair Williams added Item IV to the Consent Agenda.
- V. Consent Agenda** – Chair Williams called for adoption of the Consent Agenda. Upon a motion by Mr. Greer and a second by Ms. Krige, the TCC unanimously adopted the Consent Agenda.
- VI. Update on Development of the 2024-2033 State Transportation Improvement Program (STIP)** – Mr. Horton presented the early draft of the STIP that had just been released by NCDOT on April 25, 2022. Mr. Horton showed which of the previously identified “at-risk” or “re-evaluation” projects now either had “advanced to delivery” (2 in Caldwell and 3 in Catawba), “remain development” (6 in Burke and 2 in Catawba), or “newly unfunded” (2 in Burke and 2 in Catawba). Mr. Horton asked NCDOT to clarify the cutoff for delivery as any activity programmed by 2028, which Mr. Wasserman confirmed. Mr. Horton also shared the possibility of swapping projects, if their combined costs did not exceed 110% of the replaced project(s). Mr. Stafford commented the swapped projects should ideally be in the same funding pot, though not ultimately required. As this was an information item, no action was needed.
- VII. Draft Changes to Comprehensive Transportation Plan (CTP)** – Mr. Horton presented how early proposed changes to the CTP, following engagement with area local governments. Mr. Horton summarized the draft changes as removing multiple future new alignments and median-divided widening projects, while re-classifying multiple existing corridors as Other Major Thoroughfare Needs Improvement to support future modernization projects. As this was an information item, no action was needed.

NCDOT Update –

- **Division 11** – Mr. Sizemore noted the rehab of 321 southbound bridge recently started.
- **Division 12** – Mr. Panicker shared his printed report.
- **Division 13** – Ms. Hannah Cook noted Exit 112 was still on track to be completed this summer.
- **NCDOT-TPD** – Ms. Pam Cook shared her update via the TPD Newsletter.

Public comments or announcements: None

Adjournment – Chair Williams adjourned the meeting at 1:45 PM. The next meeting is scheduled for May 25, 2022, at 1:00 pm

Respectfully Submitted,

Randy Williams, MPO/TCC Chair

Brian Horton, TCC Secretary



**GREATER HICKORY
METROPOLITAN PLANNING ORGANIZATION (MPO)**
1880 2nd Avenue NW, PO Box 9026
Hickory, NC 28603



**RESOLUTION ADOPTING MODIFICATIONS TO THE
TRANSPORTATION IMPROVEMENT PROGRAM (TIP) FY 2020-2029**

A motion was made by _____ and seconded by _____ for the adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, the following modifications have been proposed for FY 2020-2029 Transportation Improvement Program (TIP):

See page 2 of this Attachment

WHEREAS, the MPO certifies that these TIP modifications are consistent with the intent of the adopted 2045 Metropolitan Transportation Plan (MTP);

NOW THEREFORE be it resolved, by the Greater Hickory MPO Transportation Advisory Committee (TAC) that the TIP FYs 2020-2029 be modified as listed above on this, the 25th day of May, 2022.

Bruce Eckard
Greater Hickory MPO TAC Chair

Brian Horton
Greater Hickory MPO TAC Secretary

**REVISIONS TO THE 2020-2029 TIP
HIGHWAY PROGRAM**

GREATER HICKORY METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

BL-0001 BURKE PROJ.CATEGORY DIVISION	- GREATER HICKORY METROPOLITAN PLANNING ORGANIZATION	MAIN AVENUE EAST, 2ND STREET SE TO US 70. CONSTRUCT PEDESTRIAN IMPROVEMENTS. <u>TO ALLOW ADDITIONAL TIME FOR PRELIMINARY ENGINEERING, DELAY RIGHT-OF-WAY FROM FY 22 TO FY 23.</u>	ENGINEERING	FY 2022 -	\$64,000	(BGDA)
				FY 2022 -	\$16,000	(L)
			RIGHT-OF-WAY	FY 2023 -	\$80,000	(BGDA)
				FY 2023 -	\$20,000	(L)
			CONSTRUCTION	FY 2023 -	\$272,000	(BGDA)
			FY 2023 -	\$68,000	(L)	
					\$520,000	
EB-5827 BURKE PROJ.CATEGORY DIVISION	- GREATER HICKORY METROPOLITAN PLANNING ORGANIZATION	FONTA FLORA TRAIL, FONTA FLORA STATE TRAIL, INTERSECTION OF LAUREL RIDGE COURT AND NORTH POWERHOUSE ROAD TO THE PROPOSED HARRIS WHISNANT TRAILHEAD AT THE INTERSECTION OF HARRY WHISNANT ROAD AND COBB ROAD. CONSTRUCT BICYCLE AND PEDESTRIAN FACILITY. <u>TO ALLOW ADDITIONAL TIME FOR PRELIMINARY ENGINEERING, DELAY RIGHT-OF-WAY FROM FY 22 TO FY 23.</u>	RIGHT-OF-WAY	FY 2023 -	\$410,000	(BGDA)
				FY 2023 -	\$216,000	(L)
					\$626,000	
* R-2307B CATAWBA IREDELL PROJ.CATEGORY REGIONAL	- GREATER HICKORY METROPOLITAN PLANNING ORGANIZATION	NC 150, EAST OF SR 1840 (GREENWOOD ROAD) IN CATAWBA COUNTY TO WEST OF SR 1303/SR 1180 (PERTH ROAD/DOOLIE ROAD) IN IREDELL COUNTY. WIDEN TO 4-LANES. SR 1383/SR 1180 TO US 21 IN IREDELL COUNTY. WIDEN TO 6-LANES. <u>PROJECT TO NO LONGER UTILIZE BUILD NC BONDS.</u>	CONSTRUCTION	FY 2025 -	\$265,000	(BGDA)
				FY 2025 -	\$8,603,000	(T)
	FY 2025 -			\$53,000	(S(M))	
	FY 2026 -			\$1,499,000	(BGDA)	
	FY 2026 -			\$48,616,000	(T)	
	FY 2026 -			\$299,000	(S(M))	
	FY 2027 -			\$1,328,000	(BGDA)	
	FY 2027 -			\$43,090,000	(T)	
	FY 2027 -			\$265,000	(S(M))	
	FY 2028 -			\$1,094,000	(BGDA)	
	FY 2028 -			\$35,486,000	(T)	
	FY 2028 -			\$219,000	(S(M))	
	FY 2029 -			\$814,000	(BGDA)	
FY 2029 -	\$26,405,000	(T)				
FY 2029 -	\$163,000	(S(M))				
		\$168,199,000				

* INDICATES FEDERAL AMENDMENT

Also released as STIP Revisions at NC Board of Transportation on Thursday, March 10, 2022



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METROPOLITAN PLANNING ORGANIZATION (MPO)**
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Hickory, NC 28603



**RESOLUTION OF SUPPORT FOR THE PEDESTRIAN
PLANNING GRANT APPLICATION BY CITY OF CONOVER**

A motion was made by _____ and seconded by _____ for the adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, the North Carolina Department of Transportation has established a Bicycle and Pedestrian Planning Grant Initiative which provides funding to projects that will result in a comprehensive update to local and pedestrian transportation plans for North Carolina municipalities; and,

WHEREAS, the City of Conover has applied for funding from the Department of Transportation for municipal pedestrian plan; and,

WHEREAS, the application for these funds requires endorsement of the Greater Hickory Metropolitan Planning Organization serving the City of Conover; and,

WHEREAS, the Transportation Advisory Committee of the Greater Hickory Metropolitan Planning Organization feels it to be in the best interest of the region to endorse the application for these funds and the completion of a comprehensive update to the pedestrian plan for the city;

NOW, THEREFORE, BE IT RESOLVED that the Greater Hickory Metropolitan Planning Organization Transportation Advisory Committee hereby endorses the application for the Pedestrian Planning Grant by the City of Conover and if the project is selected, will provide technical assistance as requested for the duration of the project.

Adopted this 25th day of May, 2022.

Bruce Eckard
Greater Hickory MPO TAC Chair

Brian Horton
Greater Hickory MPO TAC Secretary



Western Piedmont
Council of Governments

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Natural & Human Environment

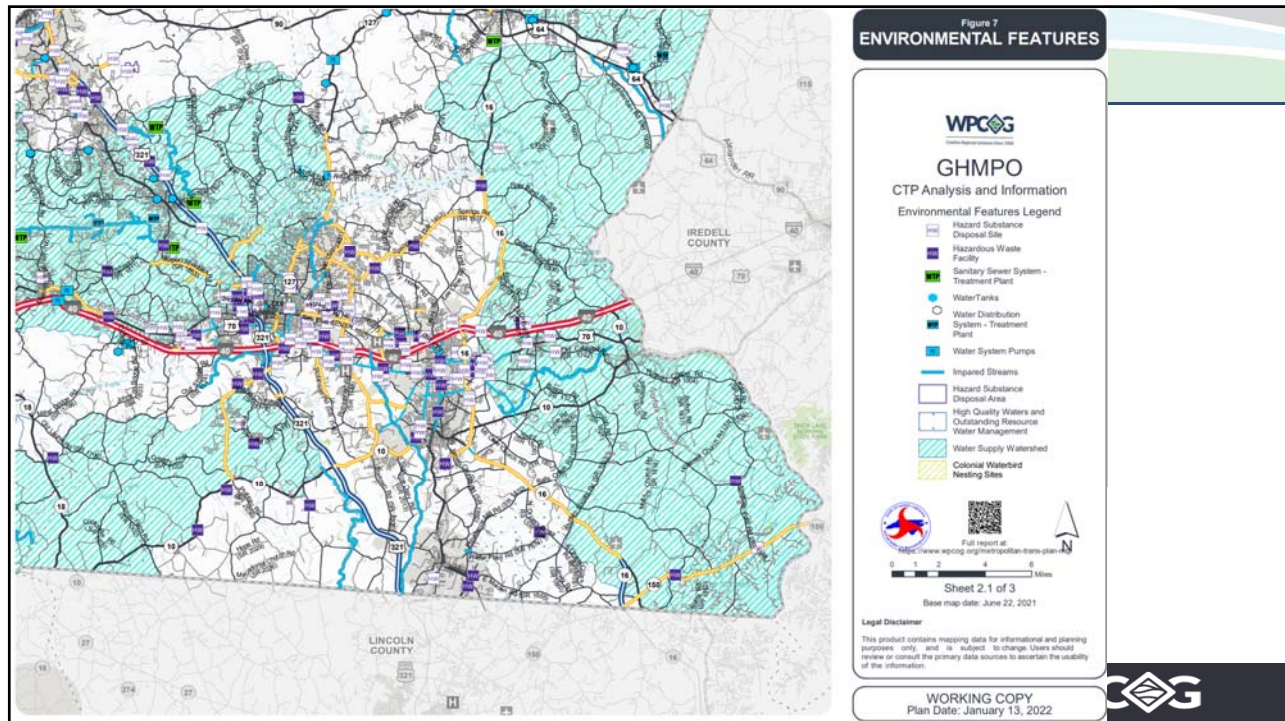
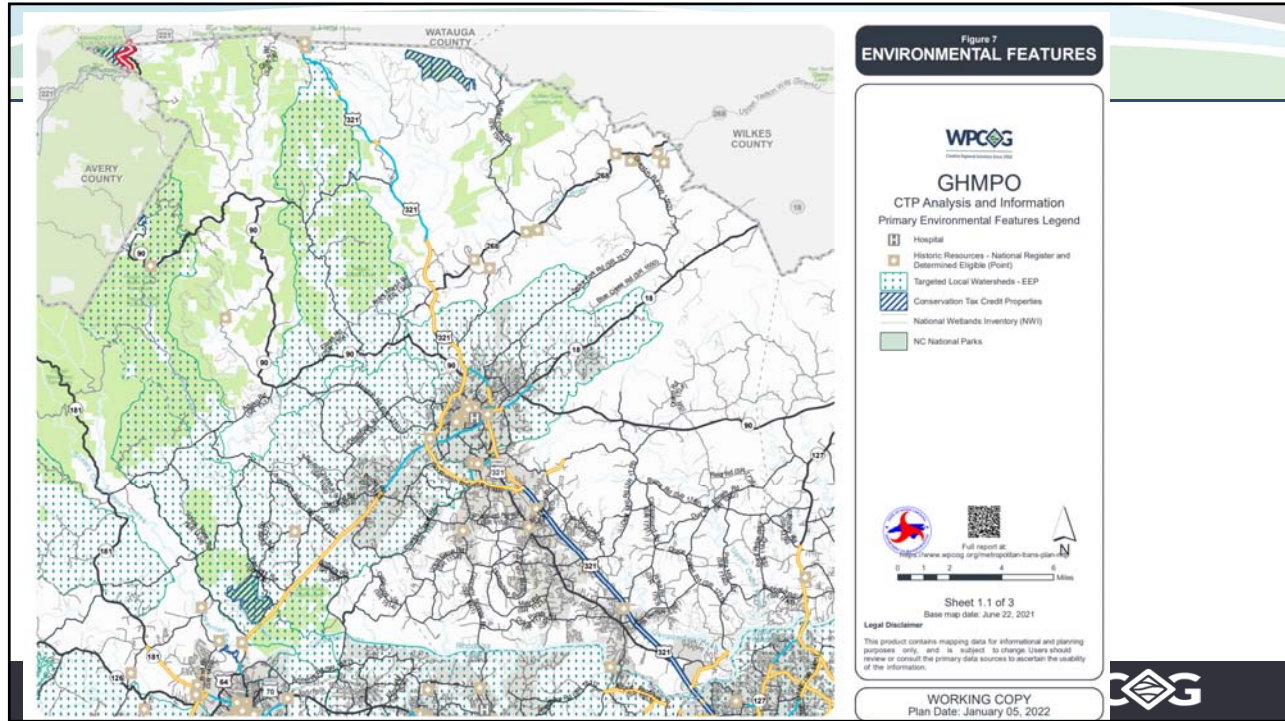
May 2022

Environmental Score

Environmental Features

- | | |
|--|---|
| <ul style="list-style-type: none"> • 24k Hydro Lines • 303D Streams • Airport Boundaries • Anadromous Fish Spawning Areas • APNEP - Submerged Aquatic Vegetation • Beach and Waterfront Access • Benthic Habitat • Bicycle Routes • Boating Access • Churches and Cemeteries • Colleges and Universities (Points) • Conservation Tax Credit Properties • Critical Habitat for Threatened and Endangered Species • Emergency Operation Centers • Fish Nursery Areas • Hazard Substance Disposal Sites (points & polygons) • Hazardous Waste Facilities • High Quality Waters and Outstanding Resource Water Management • Historic Resources – National Register and Determined Eligible (points and polygons) • Hospitals | <ul style="list-style-type: none"> • Hydrography - 1:24,000-scale (polygons) • Landscape Habitat Indicator Guilds (LHIGs) Managed Areas • National Wetlands Inventory (polygons) • Natural Heritage Element Occurrences • NC-CREWS: N.C. Coastal Region Evaluation of Wetland Significance • NC National Parks • NCDOT Maintained Mitigation Sites • Railroads (1:24,000) • Recreation Projects - Land and Water Conservation Fund • Regional Trails • Sanitary Sewer Systems - Treatment Plants • Schools (Public & Non-Public) • Significant Natural Heritage Areas • State Natural and Scenic Rivers • State Parks • Target Local Watersheds - EEP • Trout Streams (DWQ) • Trout Waters WRC (arcs & polygons) • Unique Wetlands • Water Distribution Systems – Tanks & Treatment Plants • Water Supply Watersheds |
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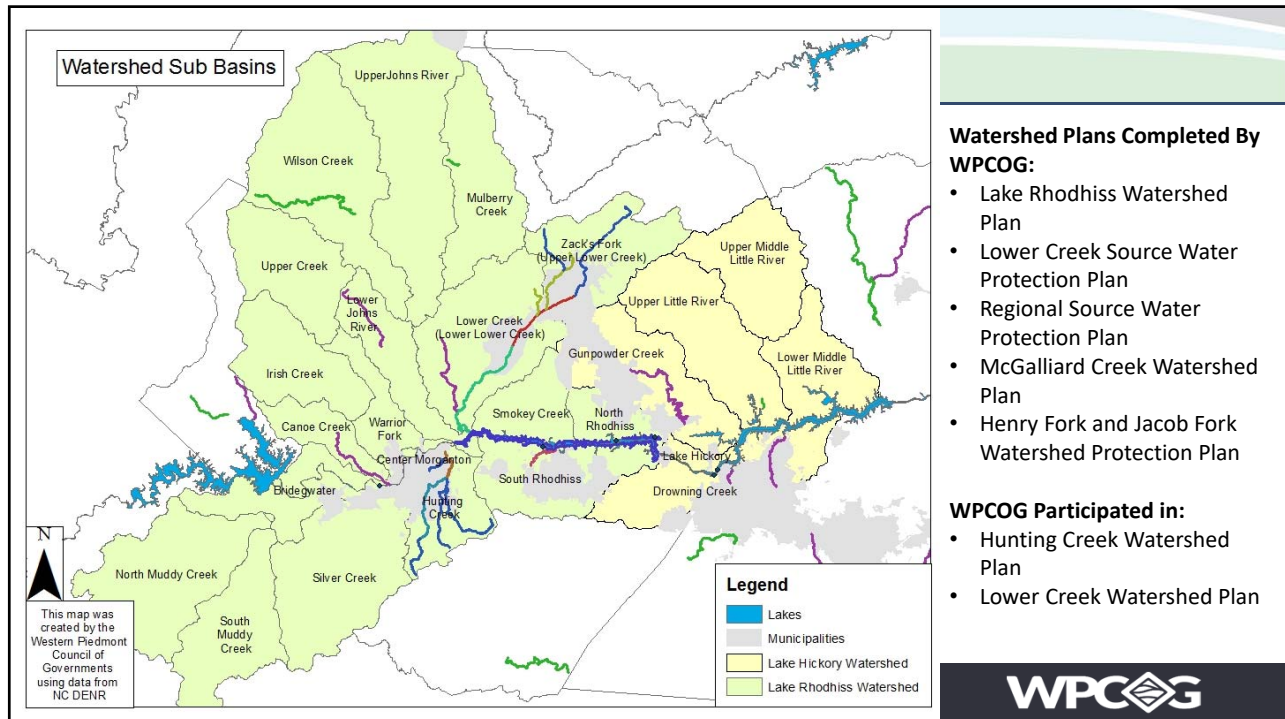




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Watershed Plans



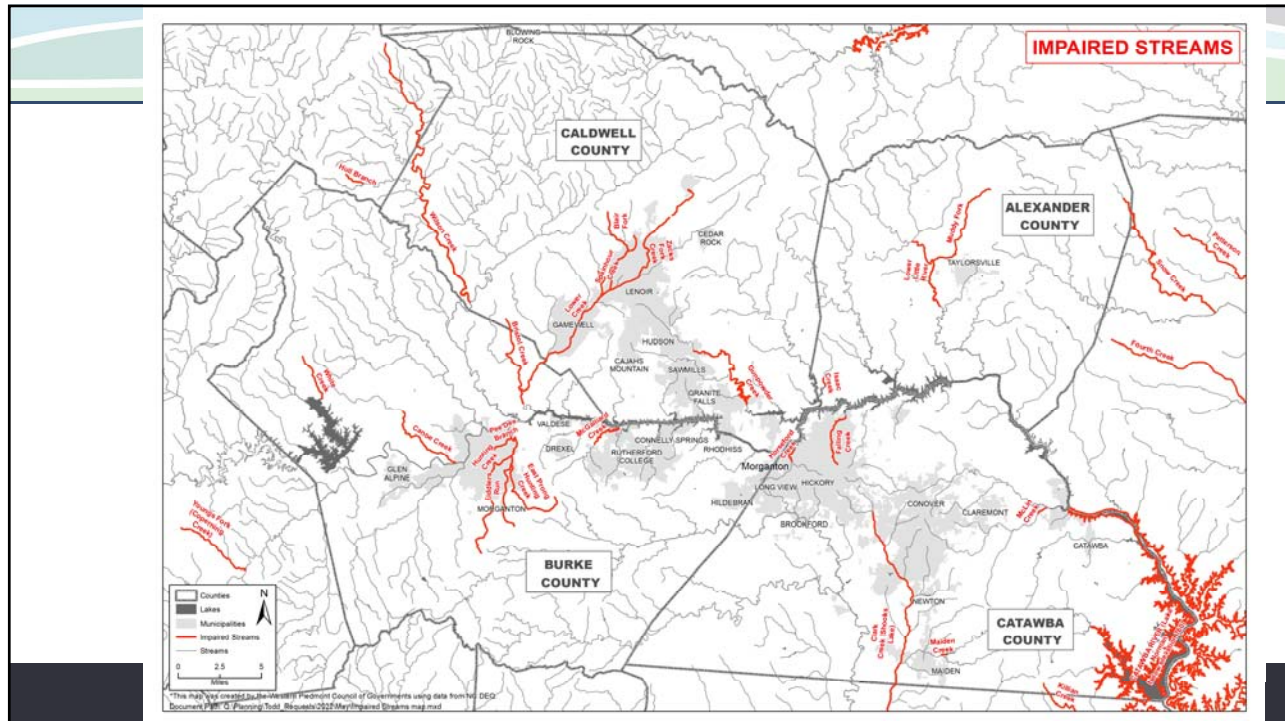
Watershed Plans Completed By WPCOG:

- Lake Rhodhiss Watershed Plan
- Lower Creek Source Water Protection Plan
- Regional Source Water Protection Plan
- McGalliard Creek Watershed Plan
- Henry Fork and Jacob Fork Watershed Protection Plan

WPCOG Participated in:

- Hunting Creek Watershed Plan
- Lower Creek Watershed Plan





Western Piedmont
Council of Governments

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Stormwater Planning and Administration

New Programs and Positions

- Stormwater Administrator
- Stormwater Outreach and Education Coordinator
- Septic Tank Repair Program
- Stormwater Management Program offered to municipalities:
 - Public Education and Outreach on Storm Water Impacts
 - Public Involvement and Participation
 - Illicit Discharge Detection and Elimination
 - Construction Site Stormwater Runoff Control
 - Post-Construction Storm Water Management in New Development and Redevelopment
 - Pollution Prevention/Good Housekeeping for Municipal Operations



Stormwater Planning and Administration

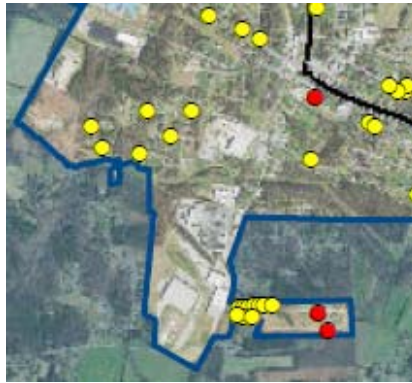
- | | |
|--|---|
| <ul style="list-style-type: none"> • All Elements: <ul style="list-style-type: none"> • Lenoir • Gamewell • Sawmills • Granite Falls • Cahah's Mountain • Hudson • Conover • Valdese • Newton • Rutherford College | <ul style="list-style-type: none"> • Outreach: <ul style="list-style-type: none"> • Hickory • Morganton • Maiden |
|--|---|



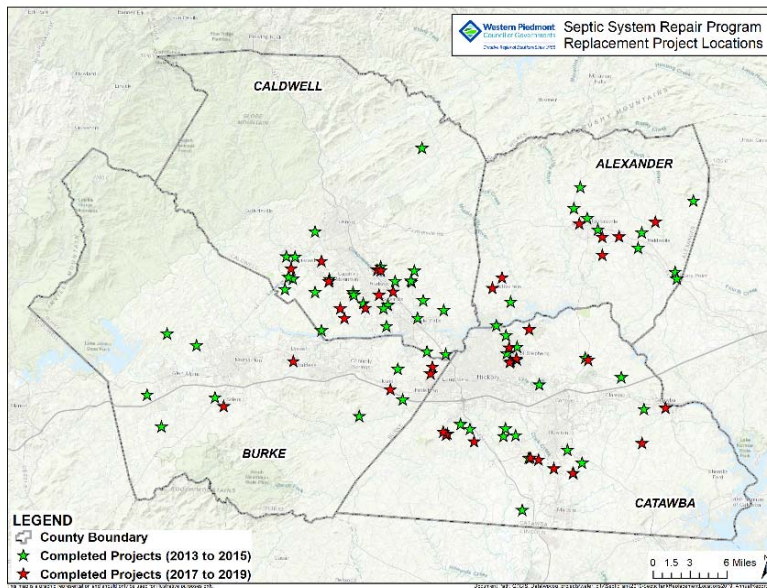
Illicit Discharge Detection and Elimination

Violation Status

- New Violation
- Owner Notified
- Cited
- Resolved



Septic Tank Grants



Public Education and Outreach and Public Participation



Annual Air and Water Quality Conference



Water Resources Committee



WPCOG

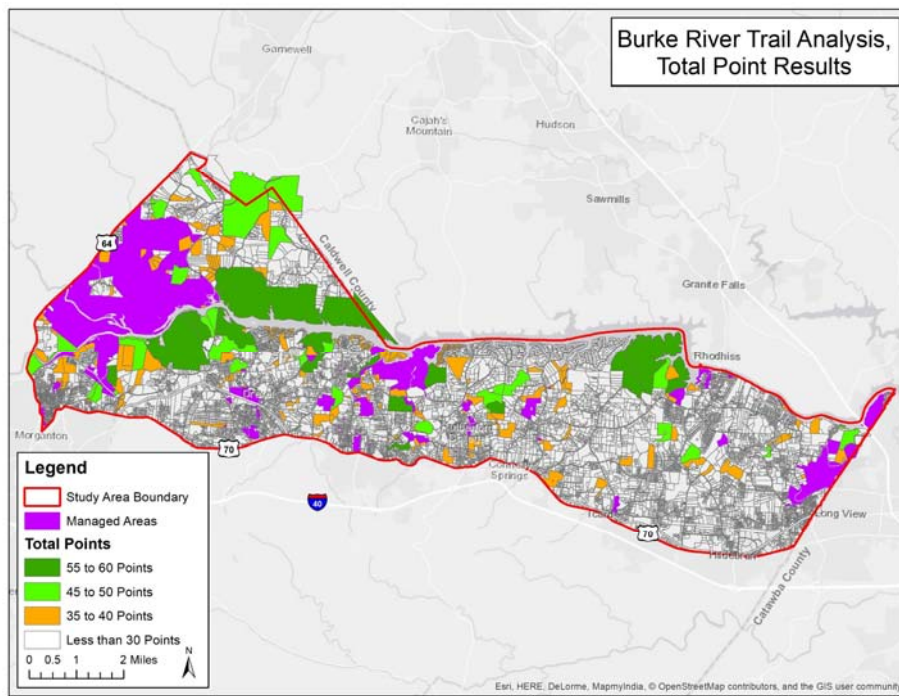
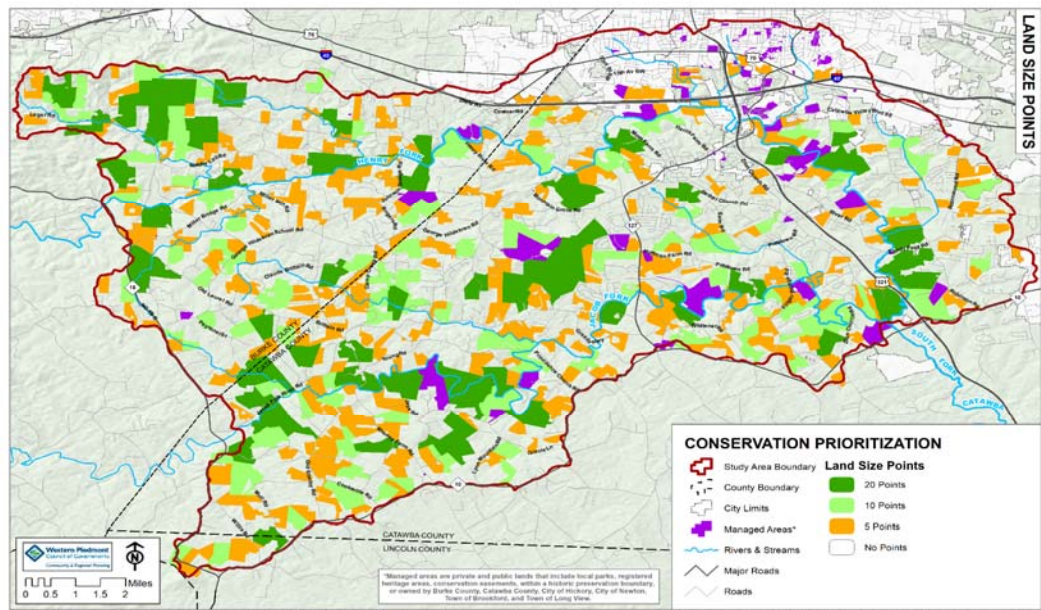


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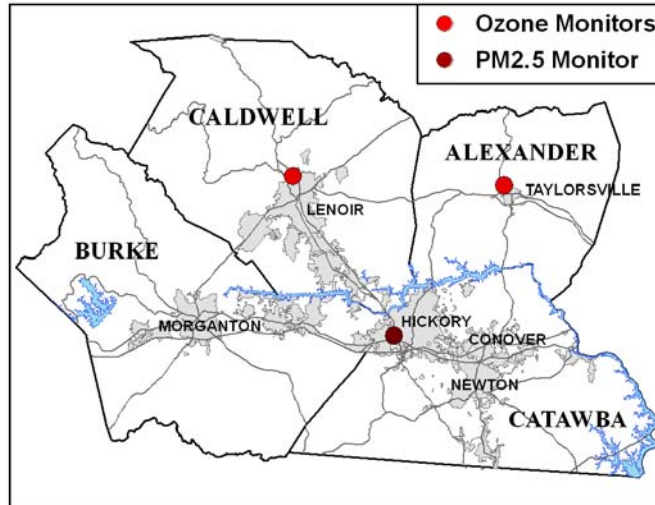
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Trail and Conservation Planning

Henry Fork and Jacob Fork Conservation Plan



Ozone and PM 2.5 Monitor Locations



Updated Ozone Data

Table 9-1.
Fourth Highest 8-Hour Ozone Values (parts per billion), 2011-2021

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Tylorsville (Alexander Co.)	67	67	50	64	65	66	62	64	61	53	62
Lenoir (Caldwell Co.)	66	64	62	61	65	66	63	65	60	52	61

Table 9-2
Number of 8 Hour Exceedances at Regional Ozone Monitors 2011-2021

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Tylorsville (Alexander Co.)	3	2	0	0	0	0	0	0	0	0	0
Lenoir (Caldwell Co.)	0	1	0	0	0	0	0	0	0	0	0

Table 9-3.
Fourth Highest 8-Hour Ozone 3-Year Averages (or Design Values) (parts per billion), 2011-2020

	2011-2013	2013-2015	2015-2017	2016-2018	2017-2019	2018-2020
Tylorsville (Alexander Co.)	65	64	64	64	62	59
Lenoir (Caldwell Co.)	64	62	64	64	62	59

**Based on the updated 70 parts per billion standard (updated in 2015)



Updated PM 2.5 Data

Table 9-4
Annual 2.5 Averages (micrograms per cubic meter) 2011-2021

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Hickory Water Tower	10.4	9.3	8.9	9.1	8.7	9.1	8.5	8.1	8.3	7.6	9.0

**Based on 12 micrograms per cubic meter

Table 9-5
Annual 2.5 3-Year Averages (micrograms per cubic meter) 2011-2021

	2011-2014	2012-2015	2013-2016	2014-2017	2015-2018	2016-2019	2017-2020	2018-2021
Hickory Water Tower	9.5	9.1	8.9	9.0	8.8	8.6	8.3	8.0



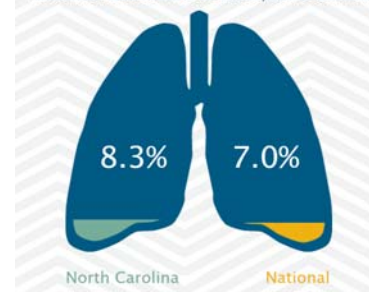
Health Factors: PM 2.5 and Ozone

County	Fatal Heart Attack Rate by County	NC Fatal Heart Attack Rate
Alexander	20	3,195
Burke	29	
Caldwell	42	
Catawba	69	

2 Blocks from Major Highway


County	Residential	Public Schools (PreK-4th)
Alexander	0	0
Burke	1.90%	6.50%
Caldwell	2.50%	19.20%
Catawba	2.20%	0

Percent of adults who currently have asthma



Takeaways -

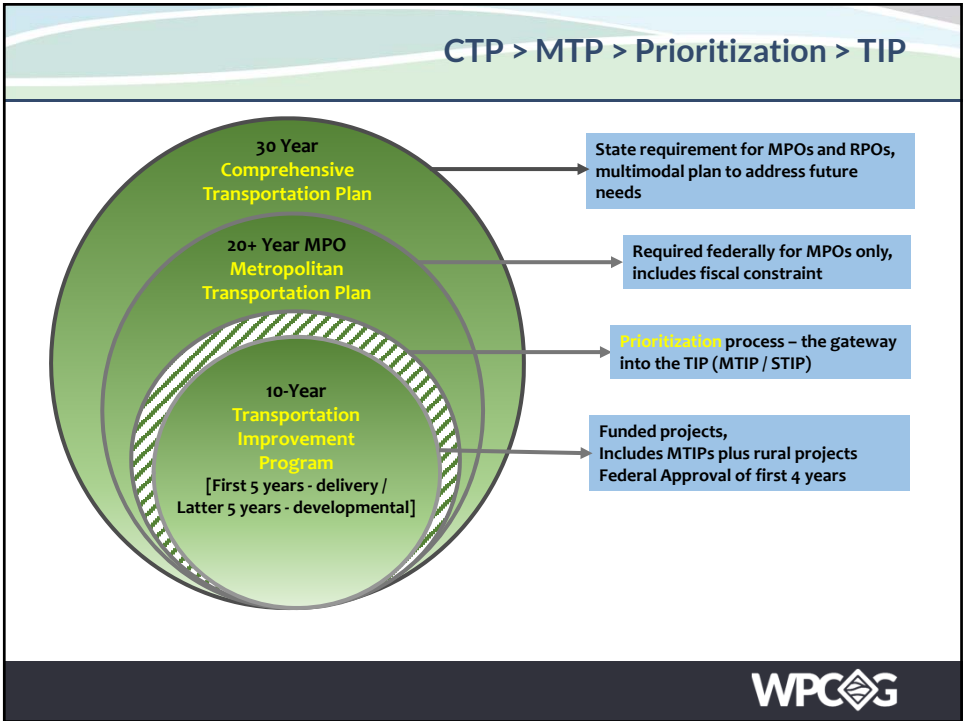

- GHMPO is in attainment for PM 2.5 and Ozone
- PM 2.5 & Ozone must be closely monitored to prevent health repercussions
- New stormwater and conservation planning services are now offered
- Every road project will receive an environmental score from the GHMPO

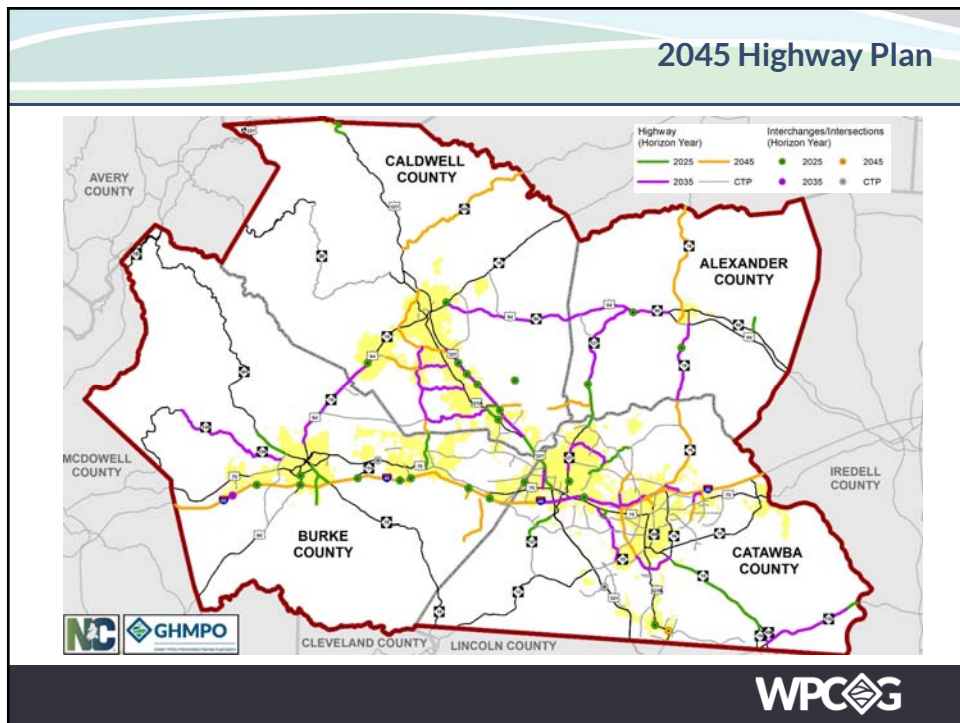
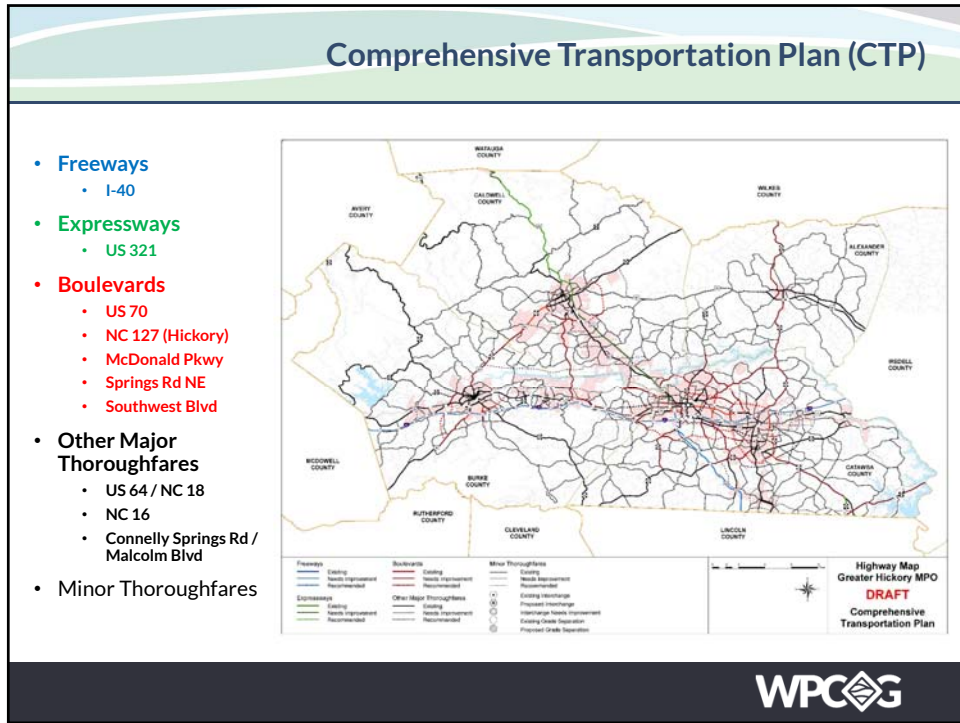


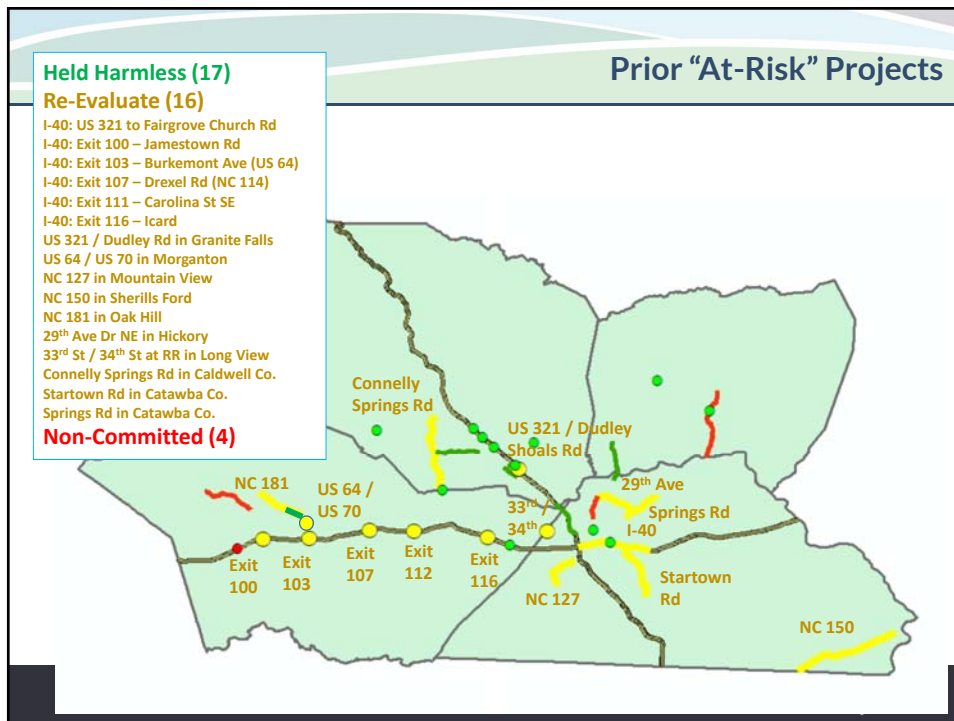
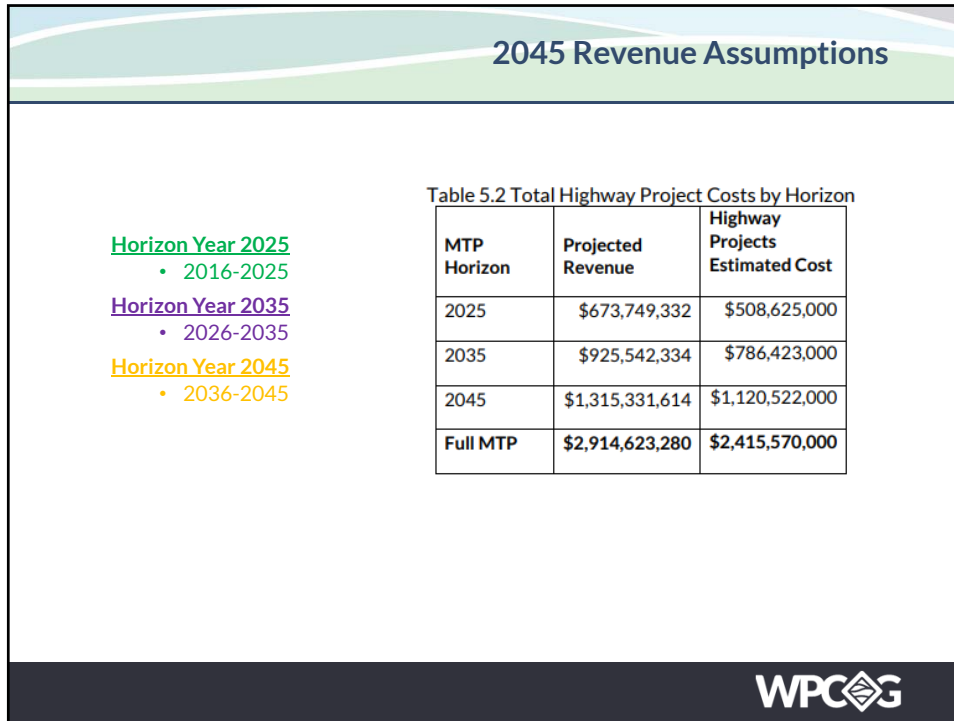
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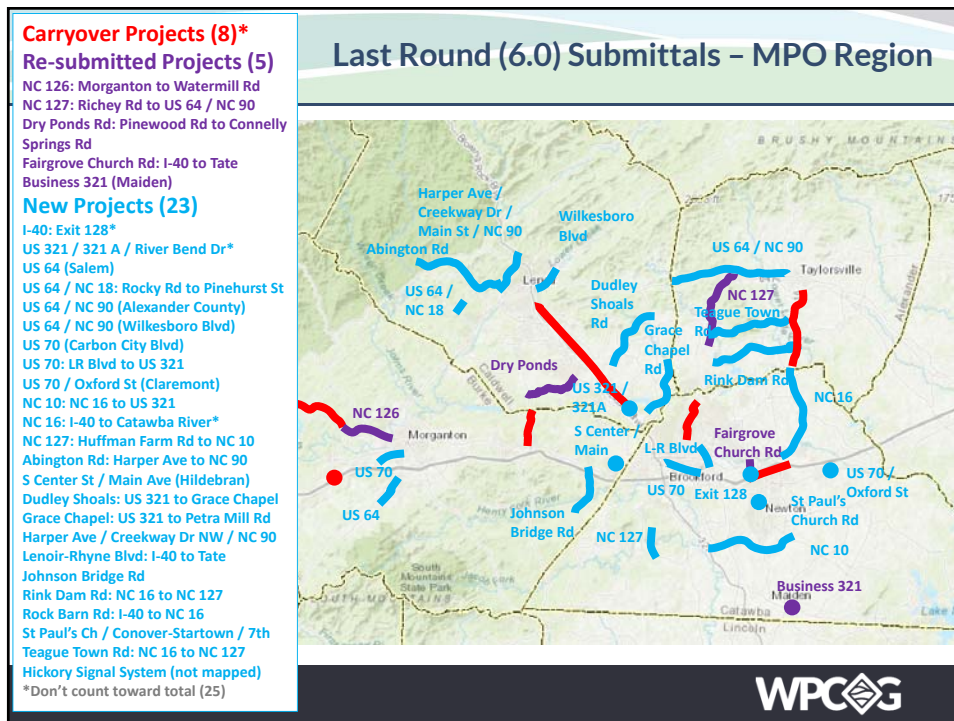
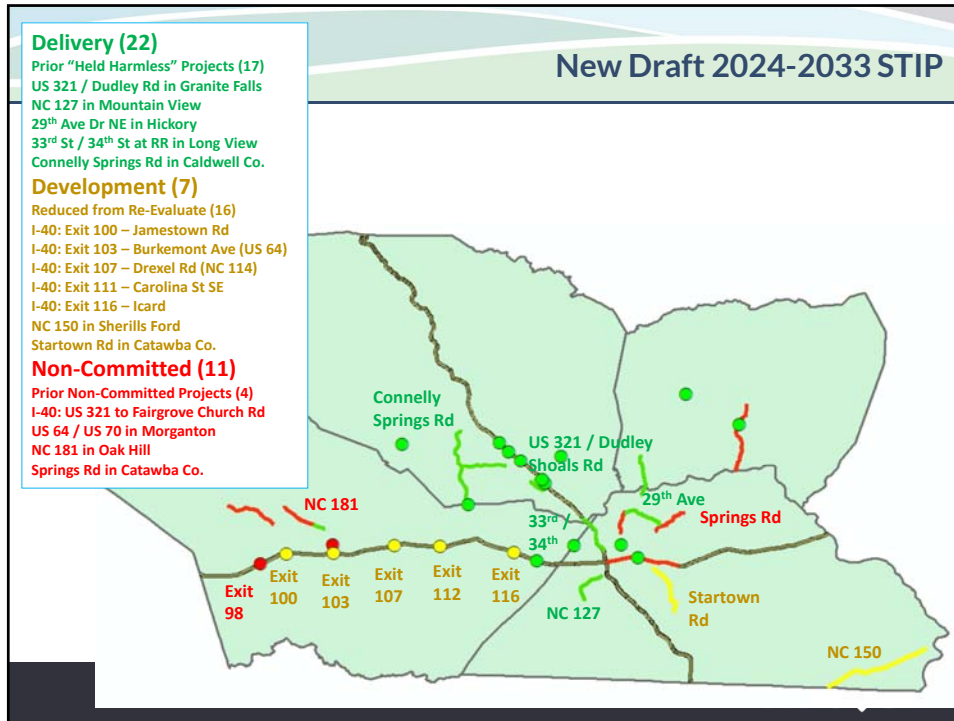
2050 Revenue Forecast

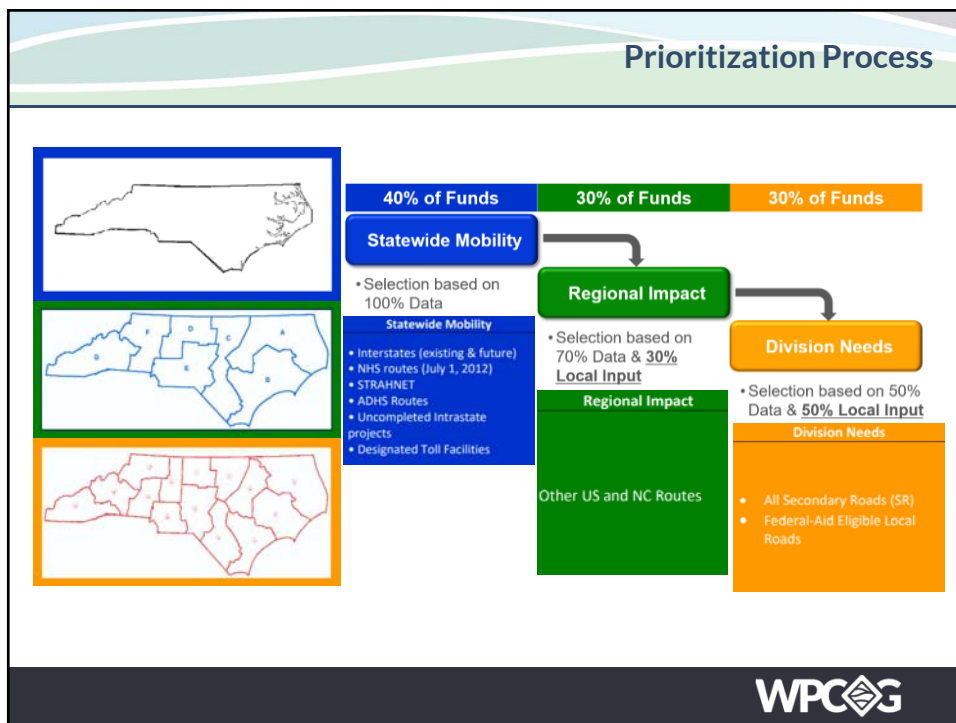
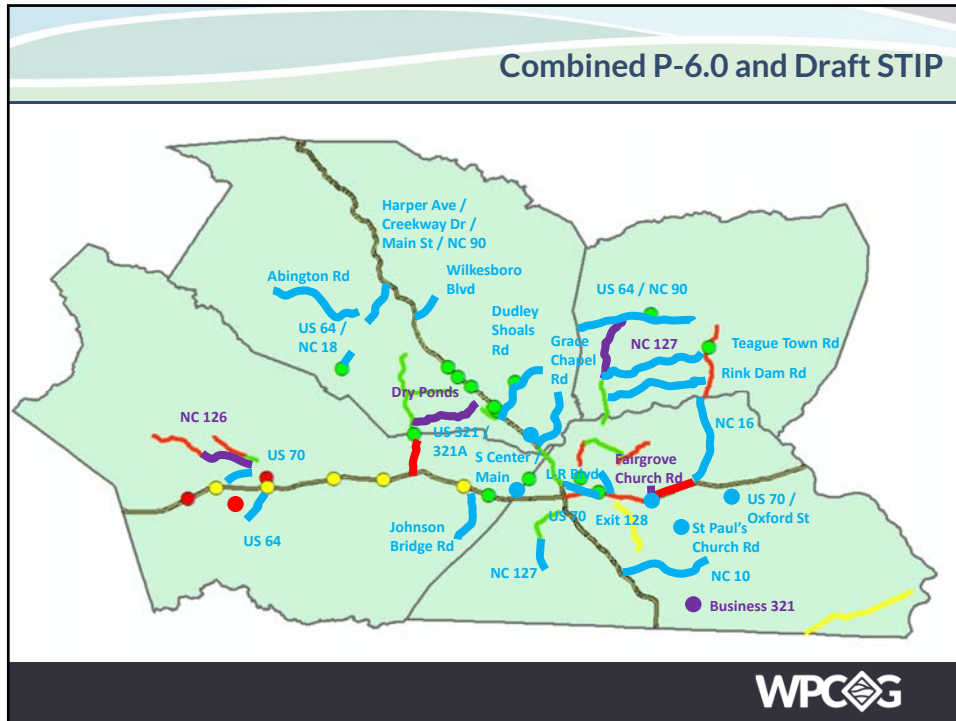
Transportation Advisory Committee
May 25, 2022

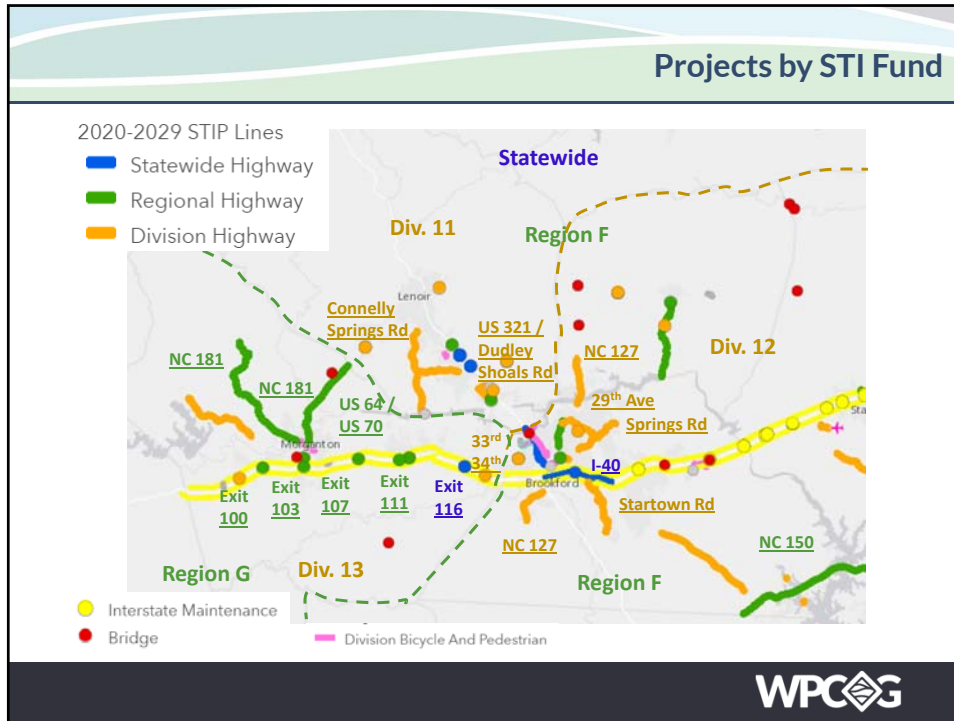












STI Funding

40% of Funds

30% of Funds

30% of Funds

STI Group	NC Mileage	GHMPO Region		
Statewide Mobility	3974.8	96.3 (2%)		
STI Group	NC Mileage	Region F		Region G
Regional Impact	11100.4	259 (2%)		127.3 (1%)
STI Group	NC Mileage	Div.11	Div.12	Div.13
Division Needs	64468.6	564.7 (1%)	1425.4 (2%)	687.4 (1%)

STI Group	Revenue	Revenue 2024-2050		
Statewide Mobility	\$15B	\$300M		
STI Group	Revenue	Region F		Region G
Regional Impact	\$11B	\$220M		\$110M
STI Group	Revenue	Div.11	Div.12	Div.13
Division Needs	\$11B	\$110M	\$220M	\$110M

WPCOG

