

# ENVIRONMENTAL OVERVIEW

The Environmental Overview identifies potential areas of impacts to existing natural, socioeconomic, and cultural resources within the study area. All information is from secondary sources. The study area boundaries are outlined in the accompanying maps. Environmental examinations are preliminary for this report. The impacts will be further refined in subsequent phases of this project. Table 4 lists potential impacts on environmental resources for the scenarios identified in this report. All environmental information listed in Table 4 is in the order of location from west to east and south to north on the accompanying maps. An effort was made to be conservative in the listing of potential environmental features that may be affected by this project. A brief description of the environmental features identified in Table 4 is given in the following discussion.

## AGRICULTURE

This is the first column of Table 4 that identifies the location of farmland for each set of improvement or scenario. As can be seen from Map 4 entitled *Existing Land Use*, much of the existing farmland is located to the north of Race Street and some areas east of Route 191 along U.S. Route 22. The majority of the farmland is in Northampton County. There are also many areas reserved for open space/conservation and recreation that include golf courses in this study corridor.

## WETLANDS AND FLOOD PLAINS

The second column of Table 4 states the various categories of wetlands and number of floodplains for each scenario. The National Wetland Inventory (NWI) features for Lehigh and Northampton counties were located and classified as defined by the U.S. Fish & Wildlife Service (USFWS). Map 5 entitled *Floodplains and Wetlands* shows the locations of the wetlands and floodplains. For scenarios on the mainline U.S. Route 22 five major areas of wetlands may be impacted. These wetlands are as follows:

- On mainline U.S. Route 22 between the interchanges of I-476 (PA. Turnpike) and Route 309. The wetland is classified as

PFO1A - Palustrine Forested Broad-leaved Deciduous Temporary.

- Jordan Creek watershed just to the west of the interchange of U.S. Route 22 and MacArthur Road. The wetland is classified as R20WH - Riverine Lower Perennial Open Water permanently flooded.
- Lehigh River watershed - The wetland is classified as R50WH - Riverine Unknown Perennial Open Water Permanently Flooded.
- Monocacy watershed in the southeast quadrant of the interchange of U.S. Route 22 and Route 512. The wetland is classified as PFO1A - Palustrine Forested Broad-leaved Deciduous Temporary.

A complete list of definitions for these wetland classifications is provided in Appendix A of this report. The floodplain areas were counted from Map 5 for each scenario and listed in Table 4. The majority of impacts are to areas of 100 year floodplain.

## LAND USE AND ZONING

The third column of Table 4 states the predominant land use and zoning for each scenario. Since the study area is rather large, a wide variety of land uses exist. Map 4 shows *Existing Land Use* for both Lehigh and Northampton counties. Map 6 *Municipal Zoning* indicates the types of land uses as classified by each municipality. As can be seen from both maps, the land uses bordering Route 22 are primarily suburban and urban residential with industrial and agricultural use following. Pockets of industrial and commercial zoned areas exist in the U.S. Route 22 and Route 145 corridors. Abutting the MacArthur Road interchange with U.S. Route 22 are two businesses (Home Depot and The Ramada Inn hotel) as well as the Lehigh Valley Mall. The U.S. Route 22 corridor is located in an area designated for urban development in the Lehigh Valley Comprehensive Plan. Land use in the northeastern portion of the study area in Northampton County predominantly consists of agricultural land. The northern portion of the study area is located in a rural development area.

## **HISTORIC SITES**

As part of potential Section 4(f) resources, a comprehensive list of historic sites in this study area is identified in the fifth column of Table 4. These sites are listed on the National Register of Historic Places. Historic properties listed on the National Register of Historic Places were collected from the Pennsylvania Historical & Museum Commission-Bureau of Historic Preservation. Map 7 entitled *Historic Sites and Parks* identifies the location of historic sites.

## **PARKS**

A thorough inventory of all public parks and recreational areas was conducted to identify locations of potential Section 4(f) resources. The last column of Table 4 lists all parks in the vicinity of each scenario included in this report. Park information was collected from the municipalities and from previous work performed by the Lehigh Valley Planning Commission (LVPC). Map 7 entitled *Historic Sites and Parks* identifies the publicly owned parks in both Lehigh and Northampton Counties.

SCENARIO	TABLE 4 POTENTIALLY IMPACTED ENVIRONMENTAL RESOURCES				
	AGRICULTURE	WETLANDS AND FLOOD PLAINS (FP)	LAND USE AND ZONING	POTENTIAL HISTORIC SITES	PUBLICLY OWNED PARKS
<b>A01</b> <b>A02</b> <b>A03</b> <b>A10</b> <b>A12</b>	Farmland adjacent to Route 22 from Route 512 to Route 33	5 wetlands: PFO1A (Little Cedar Creek), R20WH (Jordan Creek), R50WH (Lehigh River), PFO1A (Monocacy Creek), & PEM5A (Monocacy Creek)  4 locations of 100 year floodplain	Residential Industrial Commercial Institutional	Helfrich Springs Grist Mill, Peter Grim Homestead , Church @ Fullerton Avenue	Westwood Swim Club Stone Crest Swim Club Grandlawn Baseball Field Twin Grove Park Jordan Park Jordan Creek Parkway Memorial Park Wood Street Playground Fullerton Legion Field Lehigh Canal Gertrude B. Fox County Park Archibald Johnston Conservation Area Hope Lock Farm Palmer Complex
<b>A15</b>	NONE	3 Wetlands: PFO1A (Rt. 309 - Little Cedar Creek) R20WH (Rt 145 - Jordan Creek) PFO1A (Rt 512 - Monocacy Creek)  3 locations of 100 year floodplain	Commercial Residential Industrial	Helfrich Springs Grist Mill @ Rt. 145	Archibald Johnston Conservation Area Gertrude B. Fox County Park Wood Street Playground Fullerton Legion Field
<b>B01</b>	Farmland on both sides of the road from Rt. 33 to Weaversville Rd.	POWZH, R50WH (Lehigh River), PF01A, POWZH, POWZX  6 locations of 100 year floodplain and 1 B area between 100 and 500 year floodplain	Agricultural, Industrial, Residential, Retail, Rural, Environmental Protection area	NONE KNOWN	Schnecksville Park Johnson's Pond Wildlife Park Sand Springs Park Egypt Memorial Park Victor Talotta Park Canal Street Park Howertown Park Kraus Playground Jacksonville Park, Nor-Bath Trail

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	AGRICULTURE	WETLANDS AND FLOOD PLAINS	LAND USE AND ZONING	POTENTIAL HISTORIC SITES	PUBLICLY OWNED PARKS
<b>B02</b>	Farmland from Rt. 33 to east of Rt. 191, farmland mixed with residential and industrial from west of Rt. 191 to Airport Rd.	PEM5A, R20WH (Jordan Creek), POWKH, R50WH (Lehigh River), L10WHX (Dutch Springs)  4 locations of 100 year floodplain	Agriculture Residential Industrial Commercial	Biery's Port Historic District Dent Hardware Company George Taylor House	Blue Chip Stables, Zephyr Park West Catasauqua Park Lehigh Canal Park William Kennedy Athletic Complex Village View Park Crawford Dr. Recreational Area Georgetown Rd Tract Hahn Meadow Park Louise Moore Park
<b>C01</b>	Agricultural area from Easton Road to Island Park Road (both roads cross I-78 )	PFO1A, POWZH, PFO1A (Delaware River)  3 locations of 100 year floodplain	Residential, Agriculture, Rural, Industrial, Environmental Protection area	NONE KNOWN	Saucon Park, Baseball Fields Woodland Hills Country Club Delaware Canal State Park
<b>D01</b>	NONE	L10WHX, POWZH, POWZX, POWZH, R20WH, R50WH, PFO1A, R20WH  6 locations of 100 year floodplain	Industrial Residential Commercial Institutional	Dime Savings and Trust Company, High German Evangelical Reformed Church, Zollinger-Harned Co. Building, Americus Hotel, Old Lehigh County Courthouse, Lehigh County Prison, Hotel Sterling, Trout Hall, Neuweiler's Brewery, State Theater, Easton House	Fogelsville Quarries, Church Street Playground, Wescosville Park, Little Lehigh Parkway, Trident Club, Hamilton Park, South Street Playlot, Cedar Creek Parkway, Union Terrace, Fountain Park, John Valania Park, Allen Park, Soccer Field, First Ward Park, George "Buck" Boyle Park, Rosemont Recreational Club, Stratford Park, Rose Garden, Elmwood Park, Bayard Park, Comer Park, Chetwin Playground, Fairview Park, Palmer-Bethlehem Township Bikeway, Liberty Playground

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	AGRICULTURE	WETLANDS AND FLOOD PLAINS	LAND USE AND ZONING	POTENTIAL HISTORIC SITES	PUBLICLY OWNED PARKS
<b>D08</b>	NONE	NONE	NONE	NONE KNOWN	NONE
<b>E02</b>	NONE	NONE	NONE	NONE KNOWN	NONE
<b>F02</b>	<p><u>US Rt 22 Widening Impacts:</u> Farmland adjacent to Route 22 from Route 512 to Route 33</p> <p><u>I-78 Widening Impacts:</u> Agricultural area from Easton Road to Island Park Road (both roads cross I-78 )</p> <p><u>S. 4<sup>th</sup> Street Widening Impacts:</u> NONE</p>	<p><u>US Rt 22 Widening Impacts:</u> 5 wetlands in this corridor: PFO1A (Little Cedar Creek), R20WH (Jordan Creek), R50WH (Lehigh River), PFO1A (Monocacy Creek), &amp; PEM5A (Monocacy Creek)</p> <p>4 locations of 100 year floodplain</p> <p><u>I-78 Widening Impacts:</u> PFO1A, POWZH, PFO1A (Delaware River) 3 locations of 100 year floodplain</p> <p><u>S. 4<sup>th</sup> Street Widening Impacts:</u> 3 locations of 100 year floodplain</p>	<p><u>US Rt 22 Widening Impacts:</u> Residential Industrial Commercial Institutional</p> <p><u>I-78 Widening Impacts:</u> Residential, Agriculture, Rural, Industrial, Environmental Protection area</p> <p><u>S. 4<sup>th</sup> Street Widening Impacts:</u> Residential Commercial Industrial</p>	<p><u>US Rt 22 Widening Impacts:</u> Helfrich Springs Grist Mill, Peter Grim Homestead, Church @ Fullerton Avenue</p> <p><u>I-78 Widening Impacts:</u> NONE KNOWN</p> <p><u>S. 4<sup>th</sup> Street Widening Impacts:</u> Hotel Sterling Lehigh County Prison Trout Hall Gauff-Roth House</p>	<p><u>US Rt 22 Widening Impacts:</u> Westwood Swim Club Stone Crest Swim Club Grandlawn Baseball Field Twin Grove Park Jordan Park Jordan Creek Parkway Memorial Park Wood Street Playground Fullerton Legion Field Lehigh Canal Gertrude B. Fox County Park Archibald Johnston Conservation Area Hope Lock Farm Palmer Complex</p> <p><u>I-78 Widening Impacts:</u> Saucon Park, Baseball Fields, Woodland Hills Country Club, Delaware Canal State Park</p> <p><u>S. 4<sup>th</sup> Street Widening Impacts:</u>  Allen Park Fountain Park Trout Creek Parkway, Mountainville Memorial Association Ballfields</p>

SCENARIO	<p style="text-align: center;"><b>TABLE 4</b></p> <p style="text-align: center;"><b>POTENTIALLY IMPACTED ENVIRONMENTAL RESOURCES</b></p>				
	AGRICULTURE	WETLANDS AND FLOOD PLAINS	LAND USE AND ZONING	POTENTIAL HISTORIC SITES	PUBLICLY OWNED PARKS
<b>F05</b>	<p><u>American Parkway Extension:</u> NONE</p> <p><u>In-Town Bypass:</u> Farmland from Rt. 33 to east of Rt. 191, farmland mixed with residential and industrial from west of Rt. 191 to Airport Rd.</p> <p><u>S. 4<sup>th</sup> Street Widening:</u> NONE</p> <p><u>Improve Rt. 22 Interchanges:</u> NONE</p> <p><u>Widen Cedar Crest Blvd:</u> NONE</p> <p><u>Widen Airport Rd:</u> NONE</p> <p><u>Widen Route 512:</u> Farmland North of Hanoverville Road</p> <p><u>Widen Route 191:</u></p>	<p><u>American Parkway:</u> R50WH (Lehigh River), PFO1A</p> <p>1-100 year FP</p> <p><u>In-Town Bypass:</u> R50WH (Lehigh River), L10WHX (Dutch Springs)</p> <p>3-100 year FP</p> <p><u>S. 4<sup>th</sup> Street Widening:</u> 3 - 100 year FP</p> <p><u>Improve Rt. 22 Interchanges:</u> 3 Wetlands: PFO1A (Rt. 309 - Little Cedar Creek) R20WH (Rt 145 - Jordan Creek) PFO1A (Rt 512 - Monocacy Creek)</p> <p>3 - 100 year FP</p> <p><u>Widen Cedar Crest:</u> 1 - 100 year FP</p> <p><u>Widen Airport Road:</u> NONE</p> <p><u>Widen Route 512:</u> 1 - 100 year FP</p> <p><u>Widen Route 191:</u> 1 - 100 year FP</p>	<p><u>American Parkway:</u> Industrial Commercial</p> <p><u>In-Town Bypass:</u> Agriculture Residential Industrial Commercial</p> <p><u>S. 4<sup>th</sup> Street:</u> Residential Commercial Industrial</p> <p><u>Improve Rt. 22:</u> Commercial Residential Industrial</p> <p><u>Widen C C :</u> Residential Commercial</p> <p><u>Widen Airport:</u> Residential Commercial</p> <p><u>Route 512:</u> Agriculture Residential Industrial Commercial</p> <p><u>Route 191:</u> Agriculture Industrial</p>	<p><u>American Parkway:</u> NONE KNOWN</p> <p><u>In-Town Bypass:</u> Biery's Port Historic District George Taylor House</p> <p><u>Widen S. 4<sup>th</sup> Street:</u> Hotel Sterling Lehigh County Prison Trout Hall Gauff-Roth House</p> <p><u>Improve Rt. 22 Interchanges:</u> Helfrich Springs Grist Mill @ Rt. 145</p> <p><u>Widen Cedar Crest Blvd:</u> Dorneyville Crossroad Settlement</p> <p><u>Widen Airport Road:</u> NONE KNOWN</p> <p><u>Widen Route 512:</u> NONE KNOWN</p> <p><u>Widen Route 191:</u> NONE KNOWN</p>	<p><u>American Parkway Extension:</u> Kimmets Lock Access</p> <p><u>In-Town Bypass:</u> Lehigh Canal Park William Kennedy Athletic Complex Village View Park Crawford Dr. Recreational Area Georgetown Rd Tract, Hahn Meadow Park</p> <p><u>S. 4<sup>th</sup> Street Widening:</u> Allen Park Fountain Park Trout Creek Parkway Mountainville Memorial Association Ballfields</p> <p><u>Improve Rt. 22 Interchanges:</u> Archibald Johnston Conservation Area Gertrude B. Fox County Park Wood Street Playground Fullerton Legion Field</p> <p><u>Widen Cedar Crest Blvd:</u> Cedar Creek Parkway East Trexler Memorial Park</p> <p><u>Widen Airport Road:</u> NONE</p> <p><u>Widen Route 512:</u> Cowling Field</p> <p><u>Widen Route 191:</u> McIllwain/Monocacy/Medows Lower Nazareth Township Park</p>

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<b>F08</b>	NONE	L10WHX, POWZH, POWZX, POWZH, R20WH, R50WH, PFO1A, R20WH  6 locations of 100 year floodplain	Industrial Residential Commercial Institutional	Dime Savings and Trust Company High German Evangelical Reformed Church Zollinger-Harned Co. Building Americus H0otel Old Lehigh County Courthouse Lehigh County Prison Hotel Sterling Trout Hall Neuweiler's Brewery State Theater Easton House	Fogelsville Quarries Church Street Playground Wescosville Park Little Lehigh Parkway Trident Club Hamilton Park South Street Playlot Cedar Creek Parkway Union Terrace Fountain Park John Valania Park Allen Park, Soccer Field First Ward Park George "Buck" Boyle Park Rosemont Recreational Club Stratford Park, Rose Garden Elmwood Park, Bayard Park Comer Park Chetwin Playground Fairview Park Palmer-Bethlehem Township Bikeway Liberty Playground