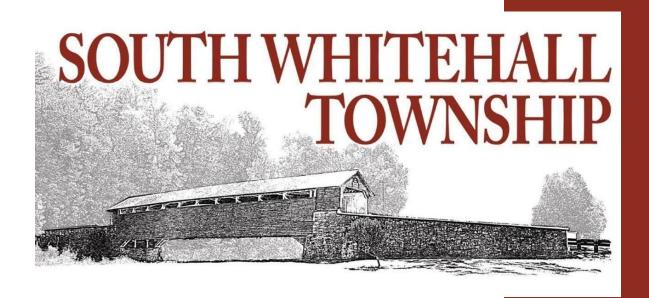
# 2021 Comprehensive Plan Update

# Phase 4 – Resource Protection Workbook



Resource Protection Workbook South Whitehall Township 2021 Comprehensive Plan Update

# <u>Comprehensive Plan Update:</u> <u>Working Groups Introductory Meeting</u>

In March 2021, South Whitehall Township kicked off Phase 4 of the Comprehensive Plan Update. South Whitehall is excited to have community participation in the Phase 4 Working Groups: Housing; Transportation; Resource Protection; Community Facilities; and Community Utilities.

## When did Phase 4 of the Comprehensive Plan Update begin?

The Comprehensive Plan Phase 4 Kickoff Meeting on March 31<sup>st</sup>, 2021 introduced the five Working Groups which reflect the required Plan Elements from the PA Municipalities Planning Code (MPC). Community members joined Township staff, elected officials, and the Lehigh Valley Planning Commission (LVPC) to learn more about how to engage in the Working Groups. The meeting reviewed work to date, and LVPC staff provided brief presentations during breakout sessions on existing conditions and how each topic fits into regional context.

## What's next?

Community participation is needed to assess existing conditions and develop Working Group recommendations during Phase 4 of the Comprehensive Plan Update. The groups will follow the meeting schedule on the next page, where Working Group members will evaluate data and future scenarios, and build out recommendations for the Comprehensive Plan Update.

housing

transportation

community facilities

community utilities

resource protection





## <u>Comprehensive Plan Update:</u> <u>Phase 4 Working Groups Timeline</u>

Introductory Virtual Meeting [All Working Groups together]: Tuesday, June 29th, 2021, 6-8PM



Meeting #1 - Existing Conditions [by Topic Area]: Week of July 12th



Meeting #2 – Recommendation Brainstorm with Subject Matter Experts from LVPC [by Topic Area] Virtual Meetings: Week of July 19<sup>th</sup>

7/19, 6-7:30PM: Community Facilities

7/20, (Sessions 1 and 2 running concurrently) 6-7:30PM: 1) Transportation 2) Housing 7/21, (Sessions 1 and 2 running concurrently) 5:30-7PM: 1) Resource Protection 2) Community Utilities



Meeting #3 - Develop Recommendations [by Topic Area]: Week of August 2nd



Concluding Meeting Working Groups [all Working Groups together]: Week of August 9th





# **Phase 4 Working Group Resources**

- South Whitehall Comprehensive Plan Update Webpage: www.southwhitehall.com/compplan
- South Whitehall Township 2009 Comprehensive Plan: https://www.southwhitehall.com/Home/ShowDocument?id=575
- South Whitehall Township Comprehensive Plan Update "Where Should We Grow?" StoryMap: <a href="https://storymaps.arcgis.com/stories/d7a161a6324c4b39beaa4af2eeafc24b">https://storymaps.arcgis.com/stories/d7a161a6324c4b39beaa4af2eeafc24b</a>
- South Whitehall Township Comprehensive Plan Update Existing Conditions Report: https://ksand.southwhitehall.com/PDF/CompPlan/ExistingConditionsReport 20190618.pdf
- South Whitehall Township Comprehensive Plan Update Planning Trends Supplement: https://ksand.southwhitehall.com/PDF/CompPlan/PlanningTrends\_Supplement.pdf
- Lehigh Valley Planning Commission (LVPC) and Lehigh Valley Transportation Study (LVTS) Comprehensive Plan and Long-Range Transportation Plan FutureLV: <a href="https://www.lvpc.org/futurelv.html">https://www.lvpc.org/futurelv.html</a>
- March 31<sup>st</sup> Phase 4 Kickoff Meeting Recordings and Presentations here:
  <a href="https://www.southwhitehall.com/departments/community-development/land-development/planning/comprehensive-plan-update/phase-4-kick-off-meeting">https://www.southwhitehall.com/departments/community-development/land-development/planning/comprehensive-plan-update/phase-4-kick-off-meeting</a>

Access All Resources on the Resource Protection Working Group webpage at www.southwhitehall.com/compplan/resourceprotection or with the QR Code:







# **Contact Information**

Name	Title	Contact Info
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RESOURCE PROTECTION WORKBOOK





# **Guiding Principles**



Protect natural, historical, recreational, scenic, open space, and agricultural, amenities, resources, and assets.



Coordinate future land use, development, and redevelopment, in sync with the capacity of the road network and utilities to absorb changes.



Promote an effective continuation of opportunities, facilities and services for open space, parks, recreation, education, public safety, and wellness.



Promote techniques to limit the sprawling pattern of development, by advocating for land use with more effective smart growth attributes.



Coordinate with PennDOT, LVPC, and adjoining Municipalities, in order to alleviate existing problems and to avoid future conflicts, and to promote opportunities for alternative transportation such as bus service, ride sharing, bicycling, and walking.





# MPC Guidelines: Comprehensive Plan

The Pennsylvania Municipal Planning Code (MPC) enables local jurisdictions to conduct a comprehensive planning process to identify areas where growth and development will occur so that a full range of public infrastructure services, including sewer, water, highways, police and fire protection, public schools, parks, open space and other services can be adequately planned and provided as needed to accommodate growth.

The comprehensive plan, consisting of maps, charts, and textual matter, shall include, but not be limited to, the following related basic elements:

- Statement of objectives concerning future development, including, but not limited to, the location, character and timing of future development
- A plan for land use
- A plan to meet the housing needs of present residents and of those individuals and families anticipated to reside in the municipality
- A plan for movement of people and goods
- A plan for community facilities and utilities
- A statement of interrelationships among the plan components
- A discussion of short- and long-range plan implementation strategies
- A statement indicating that the existing and proposed development of the municipality is compatible with the existing and proposed development and plans in contiguous portions of neighboring municipalities
- · A plan for the protection of natural and historic resources to the extent not preempted by federal or state law

The MPC requires that comprehensive plans shall be reviewed at least every ten (10) years.





# South Whitehall Today: Phase 4 Kickoff Meeting March 31, 2021

What is one word you would use to describe South **Mentimeter** Whitehall Township today? pleasant excellent police and fire quality parks residential peaceful dynamic overwhelmed stop development community





# South Whitehall Future: Phase 4 Kickoff Meeting March 31, 2021

What is one word you would use to describe your vision for Mentimeter South Whitehall Township 10 years from now? greenway evolving aoldstandard mixed housing bestplacetolive connect open space challenging opportunity preservation oriented organized





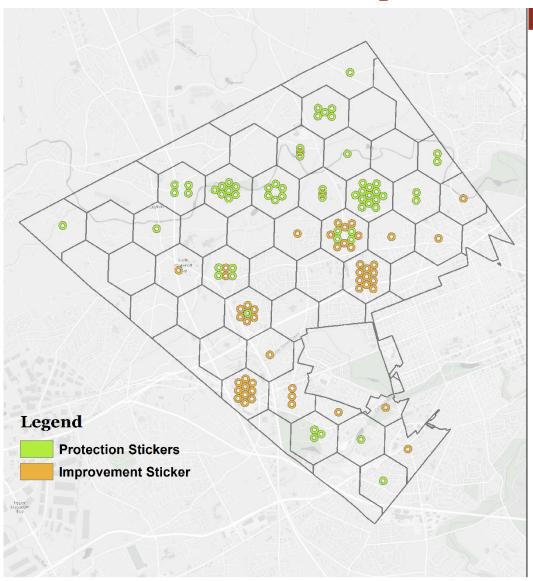
# **Framing Concepts**

- 1. South Whitehall Growth and Future Land Use
- 2. South Whitehall Economic Development Scenario presented by 4ward Planning
- 3. South Whitehall Transportation Model presented by Keystone Consulting Engineers





# South Whitehall Township Growth and Future Land Use



#### WHERE SHOULD WE GROW?

This map presents results of the "Where should we grow?" build out exercises conducted throughout South Whitehall Township. These included four public engagement meetings, two focus group meeting and a joint meeting between the Board of Commissioners and the Planning Commission. Participants were asked to accommodate future growth in population and jobs. This was accomplished by participants placing stickers on a map of South Whitehall Township divided into hexagons. Thus, answering the question "Where should we grow?".

In addition to placing future population and jobs, participants were asked to indicate areas to protect and areas to improve. Each group was provided two green stickers (protect) and two orange stickers (improve). These were purposely limited to two each to encourage discussion and thoughtful placement among the groups.

This map of the South Whitehall Township is divided into hexagons. Each hexagon depictes an area of the township. These areas have been used to classfiy existing development. Theses hexagons were then used to determine where future development should occur.

SOUTH WHITEHALL TOWNSHIP



# **How Should We Grow? – Survey Results**

## GREENFIELD

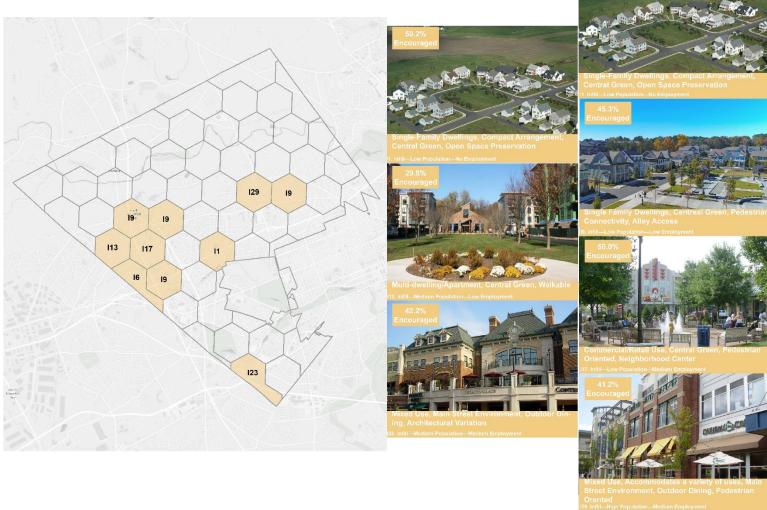


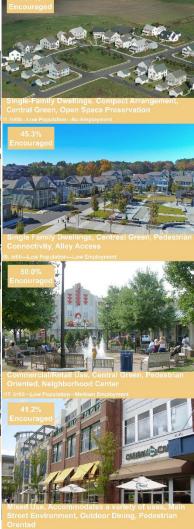
RESOURCE PROTECTION WORKBOOK





# **How Should We Grow? – Survey Results**

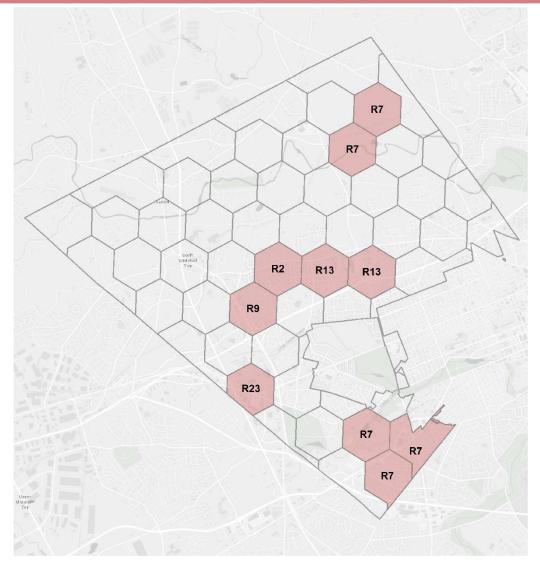








# How Should We Grow? – Survey Results REDEVELOPMENT











# South Whitehall Economic Development Scenario Presented by 4ward Planning

A fiscal impact analysis examines the linkage between local government revenue generated by new development and its resultant municipal service costs (e.g., police, fire, schools, sanitation, etc.). The outcome of such an analysis is to produce a project-related estimate of community service costs to projected revenues, a "cost-revenue ratio," which will be positive (a revenue surplus), negative (a revenue shortfall), or neutral (break-even).

4ward Planning will evaluate the projected fiscal impacts (utilizing current service cost and tax rate metrics) for various build-out scenarios according to proposed zoning within South Whitehall Township.

Utilizing its proprietary fiscal impact model (inclusive of the latest residential multipliers identified within Pennsylvania), we will incorporate projected revenue and expenditure figures provided by the township and local school district, allowing for an examination of their relationship to existing land-use, employment, and population factors. 4ward Planning will then use the model to evaluate the projected fiscal impacts and potential public facility needs associated with various development scenarios (e.g., single-family detached housing; multi-family housing; shopping center development, professional/medical office; light industrial, etc.).

We will examine the following prospective outcomes:

- Estimate of development-generated capital needs/costs
- Estimate of development-generated municipal service costs/revenues
- Estimate of development-generated public-school district costs/revenues
- Estimate of development-generated public school-age children
- Estimate of development-generated employment (permanent)



4ward Planning will use one or a combination of qualitative and quantitative methods to conduct the fiscal impact analyses, based on the two fiscal impact methodologies most often employed by land-use practitioners: Per Capita Method and Case Study Methods.

The fiscal impact model is designed to perform sensitivity testing, such that changes to development type or intensity, value factors, etc. will update impact outputs.

The value of incorporating a fiscal impact analysis during the comprehensive planning process is to identify likely service and/or capital costs associated with permitted future development. In this way, comprehensive plan stakeholders can determine, in advance of development occurring, if the projected impacts will be detrimental or beneficial to the township and by what degree.

It should be understood, however, that the fiscal impact analysis model is based on currently known factors and, as such, cannot precisely predict future impacts; however, its utility is in illuminating the likely direction (positive or negative impact) and scale (how many new residents and school students; how many new employees; what increase in municipal and school district personnel might result; what new municipal and/or school district facilities might be required).





# South Whitehall Transportation Model Presented by Keystone Consulting Engineers



# <u>An Evaluation of Future Traffic Impacts Associated with Planned Greenfield, Urban Infill, and Redevelopment in South</u> Whitehall Township

Keystone Consulting Engineers, Inc. has prepared this traffic evaluation in support of South Whitehall Township's comprehensive plan update. The purpose of this evaluation is to inform future planning efforts by identifying highlighting traffic impacts associated with greenfield, urban infill, and redevelopment in the areas identified during volunteer public workshop sessions. This evaluation will also provide various mitigating strategies that could be considered for areas where congested traffic conditions are anticipated.

The above noted analysis was performed in accordance with the following methodology:

- **Study Scope:** Critical intersections along the major roadway corridors within the Township have been identified to use as a basis of determining traffic impacts. These intersections were selected based on KCE's local knowledge of the Township and based on guidance received from Township Staff.
- **2040 Base Traffic Conditions:** A 2040 Base Traffic Scenario was developed to use as a baseline by which to compare the impacts of a future Township development scenario. This base scenario was prepared as follows:
  - Existing traffic counts were compiled for the study intersections using traffic impact studies submitted to South Whitehall Township as part of various land development projects. Where existing traffic count information was not available from prior studies, KCE engaged Tri-State Traffic Data to perform new traffic counts, which were subsequently adjusted to account for fluctuations in traffic volumes resulting from the COVID-19 pandemic. The existing traffic volumes were then projected to the year 2040 using a static growth rate for Lehigh County as published by PennDOT's Bureau of Planning & Research.
  - Anticipated traffic volumes from approved developments in the Township (not reflected in the above mentioned counts) were also obtained from submitted traffic studies and were layered onto the 2040 traffic projections to arrive at a 2040 base scenario. The quality of traffic flow was determined using the Intersection Capacity Utilization (ICU) method, which provides a quantitative index of intersection performance and also provides qualitative flow descriptions for Levels of Services (LOS) A through H, where LOS A indicates no congestion and LOS H indicates excessive prolonged periods of traffic congestion during peak periods.





## South Whitehall Township Transportation Model - Continued

- **2040 Future Traffic Conditions:** A 2040 Future Scenario was developed based the greenfield, redevelopment, and urban infill conditions identified during the planning workshops. Specific locations where this traffic was expected to enter the roadway network were provided by Township Staff.
- **Trip Generation and Distribution:** Trip Generation for the various development types was determined using the ITE Trip Generation Manual, Tenth Edition, for representative land uses for retail, residential, and industrial land use types.
  - o Trips generated from planned multi-use sites in the Township were reduced to account for internal (shared) trips between uses (an example of a shared/internal trip would be traveling to the grocery store and also stopping at the bank located on the same site as part of the same trip). Further, shared trips that were expected to occur between uses within the Township were also identified and generally accounted for in the analysis (an example of this would be a Township resident making a trip from their home to a retail shopping center located within the Township. In this event the trip originates and terminates within the Township and does not result in an external trip into or out of the Township).
  - o The specified trip generation was also reduced to account for trips for retail uses being served by traffic that is already present on adjacent roadways. This is referred to as a "pass-by" trip (an example of a pass-by trip would be stopping for gas on the way home from work along the normal commuter route).
  - The analysis was limited to vehicular traffic, although it is generally recognized that other modal transportation choices would generally serve to reduce traffic impacts (i.e. LANTA bus service, Biking, and/or walking along sidewalks or other defined pedestrian routes).
  - o The above noted trips were then distributed to the extents of the Township and/or to origins/destinations within the Township in a proportional manner in accordance with existing roadway traffic volumes and/or using engineering judgement.
- Anticipated traffic volumes from the future development types identified were then layered onto the 2040 Base traffic conditions and evaluated for quality of traffic flow using the above described Intersection Capacity Utilization method. Areas of significant degradation were noted and indicated as areas where special consideration is recommended to maintain the quality of traffic flow
- Since this evaluation was performed for planning purposes and was therefore not prepared to the rigors of a formal traffic impact study, specific mitigating improvements for areas anticipated to be affected by development traffic were not identified. However, structural mitigating improvements could generally include roadway widening/lane additions, interchange modifications, signal timing adjustments, and/or enhancement of alternate transportation modes and infrastructure, such as expanding public transportation routes, construction of sidewalks and/or bike paths, etc. Planning efforts could also be employed to help mitigate future traffic impacts including the encouragement of multi-use development to facilitate trip sharing. Lastly, travel-demand management strategies could be considered in an effort to influence driver behavior to reduce traffic congestion during peak periods (i.e. staggering of employment shift times, provision of incentives for ride-sharing, etc.).





# Working Group Meeting #1: Existing Conditions

This meeting will focus on the current existing conditions for Resource Protection in South Whitehall Township. Relevant information will be discussed and presented from the growth, economic development, and transportation scenarios, the South Whitehall Township 2009 Comprehensive Plan, Comprehensive Plan Update Guiding Principles [2019], Comprehensive Plan Update Existing Conditions Report [2019], and the regional comprehensive plan FutureLV.

## **Goals**

- > Identify significant data trends within South Whitehall Township
- Identify where updated data and/or additional information is needed
- Complete Existing Conditions Discussion Template

## **Outcome**

Solidify a baseline understanding of current data and information to best inform the recommendation process.





# MPC Guidelines: Resource Protection

The PA Municipalities Planning Code (MPC), Act of 1968, P.L.805, No. 247 as reenacted and amended states in Article III, Section 301, that in the Preparation of Comprehensive Plans, in relationship to Resource Protection, shall include:

(6) A plan for the protection of natural and historic resources to the extent not preempted by federal or state law. This clause includes, but is not limited to, wetlands and aquifer recharge zones, woodlands, steep slopes, prime agricultural land, flood plains, unique natural areas and historic sites.





# 2009 SWT Comprehensive Plan Goal Themes & Statements: Resource Protection

## <u>Protection of Natural, Historic & Agricultural Resources</u>

**Notes** 

#### Goal:

Optimize the protection, conservation and preservation of natural resources, historic sites and farmland in a balanced land use approach.

#### **Goal Statements**

- 1. Protect water quality by incorporating the latest techniques for riparian buffer zones for streams, surface waters, and wetlands and providing protections for wellheads and recharge areas.
- 2. Consider effects of development on steep slopes and determine appropriate protection levels for steep slopes, while conserving the low, flatlands.
- 3. Evaluate appropriate protection levels for woodlands, and protection/replacement of shade trees and shade tree canopy.
- 4. Require additional investigation and studies for development proposed on sites that have underlying karst/carbonate geology.
- 5. Support and invest in the regional greenways concept to link the Township's "green infrastructure", which includes Covered Bridge Park.
- 6. Activate the South Whitehall Township Environmental Advisory Council (EAC).
- 7. Work with the Wildlands Conservancy, Lehigh County and others who can partner to conserve natural areas.
- 8. Promote historic preservation throughout the Township.
- 9. Preserve our covered bridges, historic barns, and historic neighborhoods, and visual amenities.
- Document historical sites in order to ensure identification of all potential historical edifices and features.
- Involve local historical societies, historians at local colleges and universities, and other interested parties in preservation efforts.
- Explore state/county farm preservation programs as they might relate to South Whitehall Township farms.
- 13. Evaluate and increase percentage of South Whitehall land under preservation/conservation.
- Assess the public's view on farmland preservation and use of taxpayer money to preserve more farms in South Whitehall Township.
- 15. Consider farmland protection through purchase of development rights.





**2009 SWT Comprehensive Plan:** Legend **Historic Resources** Historic Resources National Register Listed Locally Significant Parcels Lakes & Ponds Streams Municipal Boundaries Data Sources:
Base Features: Lehigh County GIS, 2004
Wetlands: National Wetlands Inventory
Floodplains: FEMA Map 5-3 Historic Resources Comprehensive Plan South Whitehall Township Lehigh County, Pennsylvania Prepared by: Thomas Comitta Associates, Inc. Town Planners & Landscape Architects 18 West Chestrut Street West Chester, PA 19380 January 24, 2008; March 20, 2008

**Notes** 

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RESOURCE PROTECTION WORKBOOK



# **2009 SWT Comprehensive Plan:** Historic Resources Recommendations

#### Historic Preservation Recommendations:

Though not exhaustive, this initial inventory does demonstrate that the Township has a wealth of historic resources to consider going forward. The majority of these sites of interest are located in the northern tier, where the future development patterns are yet to be determined. The next ten to twenty years will present critical opportunities to preserve valued resources from the past and incorporate them into assets for the Township's future. Setting preservation goals and strategies before the development occurs gives the Township an opportunity to be proactive in prioritizing its preservation priorities and safeguards the legacy of South Whitehall Township for future generations.

There are several strategies that the Township and community can take to preserve these resources and protect the character of the area:

- I. Increase historic preservation awareness and education. Provide access to education and encourage a greater awareness of the value of historic resources to the community's identity and history. This awareness should focus on preservation's role in maintaining a unique character and identity of South Whitehall, but also its contribution to economic viability through adaptive reuse and tourism.
- 2. Conduct an inventory of historic sites and structures in the Township. The inventory should categorize the resources and include a preliminary ranking of sites and structures that are locally important and that may be eligible for the National Register. An initial inventory is included in this chapter. Seek additional funding and technical assistance from the National Park Service, PHMC, Lehigh Valley Planning Commission and other agencies, while tapping local historic societies and residents for additional documentation. This inventory can be used as a tool for reviewing subdivision and land development applications or, ideally, as the framework for a historic preservation ordinance.
- 3. Consider adopting an Historic Preservation Ordinance. In considering a Historic Preservation Ordinance, the Township should evaluate the benefits of an ordinance that uses a tiered approach to place higher protections on resources of higher value. Resources are prioritized based on a developed ranking system that takes into account the type of resource (residential, commercial, rural, industrial, etc.), the structural and historic integrity of a structure, the degree to which it is threatened by development, economic decline, and link to the community, among others. The highest tier would be comprised of National and State designated properties and buildings. The mid and lower tiers could be determined as part of the historic sites and structures inventory. This would permit the Township to focus on protecting resources that have the greatest value to the community, while balancing them with new development.

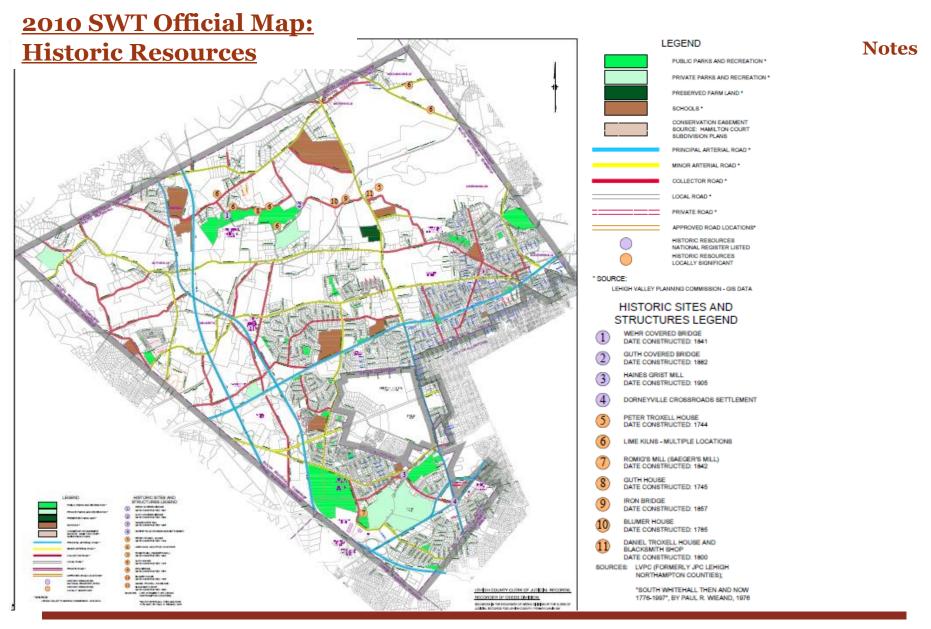
  Provisions that might be included in a Historic Preservation Ordinance:
  - a. Require review prior to demolition permits.
  - b. Prohibit demolition by neglect.
  - c. Include provisions for alteration of historic resources.
  - d. Include provisions for use and adaptive re-use of historic resources.
  - e. Incentives for the preservation of historic resources. One option to achieve this is through Open Space and Cluster Development, whereby historic resources can be incorporated into open space set asides with public access.

As part of developing the Ordinance, the Township would create a Historic Architectural Review Board (HARB) to administer design standards and guidelines and provide recommendations to the Township Planning Commission.

- 4. Encourage rehabilitation of existing buildings. As discussed in Chapter 6, the Township proximately 1,500 new housing units over the next 15 years. A small percentage of these can be achieved through rehabilitation. Rehabilitation not only allows for the continued viability of older buildings, which tend to be outdated in terms of the modern amenities, but also prevents blight and provides alternatives to the large lot single-family detached dwellings that dominate the Lehigh Valley outside of the Cities.
  - In order to encourage rehabilitation and renovation, some municipalities partner with local banks or other partners to offer low or no interest loans to residents. The Township may consider permitting the conversion of older single-family detached dwellings into multifamily dwellings as a conditional use or special exception in order to encourage their continued viability and add to the variety of housing available.
- 5. Encourage adaptive reuse. One of the greatest challenges to historic preservation is maintaining the viability of older structures. A proven technique is to permit a greater range of uses in historic buildings, especially if located in otherwise single-use districts. With this approach, a barn can be converted to a bed and breakfast, office, or antique shop, as long as other provisions for parking and compatibility with surrounding neighborhood are adhered to. Other examples of reuse that are often seen today is the reuse of a farmhouse as a community center or clubhouse in new residential subdivisions. Other features, such as walls and fences, can also be incorporated alongside new development. Adaptive reuse should be strongly encouraged in the ordinance and the feasibility of adaptive reuse examined by the landowner prior to demolition. The ultimate decision, however, is in the hands of the property owner.
- 6. Incorporate historic properties into a South Whitehall Township Greenway Network, in conjunction with other protected natural and scenic resources where location is feasible. Many historic structures are found adjacent to the Jordan Creek, an area of high interest for both future development and future preservation and conservation. Part of any zoning that permits higher density development, such as Traditional Neighborhood Development, should stipulate that historic resources should be preserved and maintained. South Whitehall Township could encourage property owners to consider adaptive reuse as an alternative to demolition.
- 7. Consider designating historic properties as "sending areas" in a Transfer of Development Rights program.
- 8. Consider adopting overlay zoning districts over existing villages for the purpose of preserving and enhancing the unique character found there. The overlay district would permit context sensitive infill and expansion of the villages.

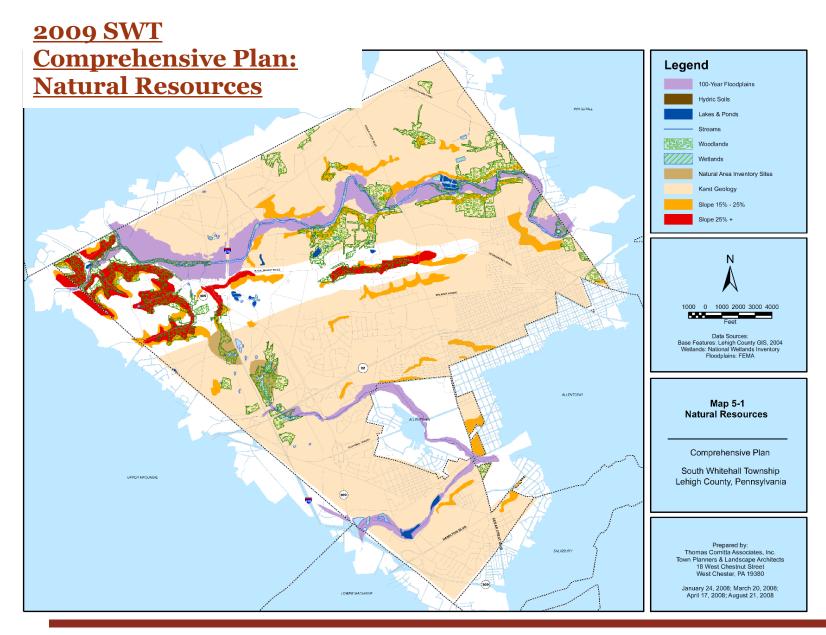












**Notes** 

RESOURCE PROTECTION WORKBOOK





**2009 SWT Comprehensive Plan:** Legend **Water Resources** --- Streams Lakes & Ponds Wetlands Hydric Soils 100 ft. Riparian Buffer Watersheds Cedar Creek Coplay Creek Hassen Creek Jordan Creek Little Cedar Creek 100-Year Floodplains WALBERTAVENUE 1000 0 1000 2000 3000 4000 Data Sources:

Base Features: Lehigh County GIS, 2004;
Wetlands: National Wetlands Inventory
Floodplains: FEMA: Hydric Solis: USDA NRCS,
SSURGO, 2007; Watersheds: Environmental
Resources Research Institute, 1997 ALLENTOWN Map 5-2 Water Resources Comprehensive Plan South Whitehall Township Lehigh County, Pennsylvania Prepared by: Thomas Comitta Associates, Inc. Town Planners & Landscape Architects 18 West Chestnut Street West Chester, PA 19380 LOWER MACUNGIE June 19, 2008; August 21, 2008

**Notes** 

RESOURCE PROTECTION WORKBOOK 24





# **2009 SWT Comprehensive Plan: Natural Resource Recommendations**

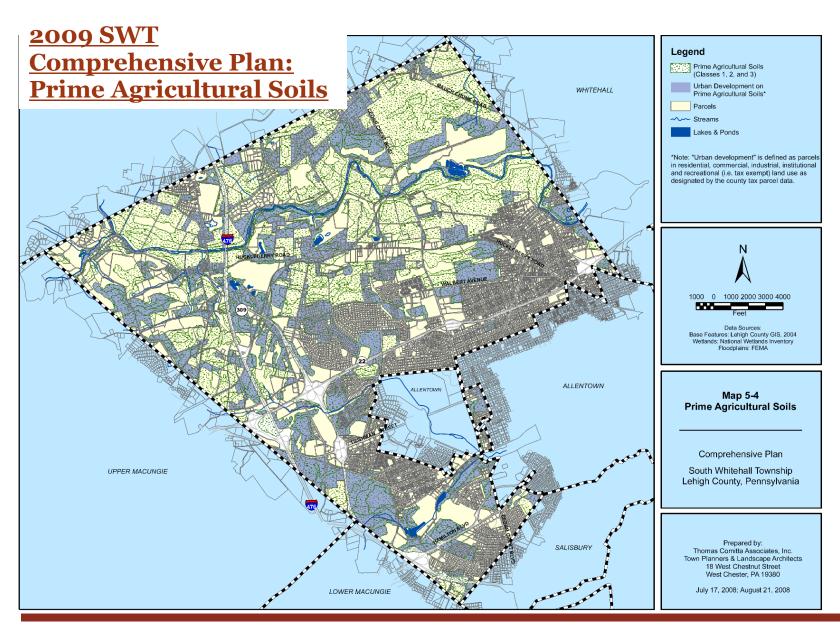
#### **Natural Resource Recommendations**

Unlike some Townships, South Whitehall does not have an abundance of natural resource constraints on development and those that do exist, tend to be concentrated geographically. This plan advocates that the Township's profusion of open, unconstrained land, be considered an opportunity to provide quality neighborhoods, community spaces, and employment opportunities, and to protect those resources, whose value in terms of function and beauty are less easily quantifiable.

- 1. Ordinance Amendments:
  - a. Amend the Zoning Ordinance to incorporate Riparian Buffers protections. One of the most effective tools in preserving and reclaiming the quality of waterways are riparian buffers. Considered vital in the protection and enhancement of water quality, riparian buffers are an area of vegetation maintained along streams and water bodies that serve as a transition between the aquatic and the terrestrial environments. They protect water quality primarily by slowing and reducing stormwater runoff that erodes stream banks, and removing contaminants, particularly nitrogen and phosphorous, before they reach the stream. Forested buffers improve wildlife habitat and water quality by maintaining cooler temperatures through shading, and minimizing damage from floodwaters. Viewed as part of comprehensive system, these functions can reduce the need for costly, built infrastructure and are thus considered a valued part of a community's "green infrastructure". Beyond the important role riparian buffers play in preserving wildlife habitat, stormwater management, and water quality improvement, these buffers also provide great scenic and recreational value. Since riparian buffers follow stream corridors they serve as the links in a regional open space network or "greenway", providing opportunities for recreational trails and connections between other open space and cultural amenities. The LVPC recommends a buffer of 100 feet for major streams and rivers, e.g., the Jordan Creek. The Pennsylvania Department of Environmental Protection also strongly encourages a 100-foot buffer for most streams and water bodies, and 300 feet for those of Exceptional Value (EV) and High Quality (HQ). The DEP is currently considering an update to its Chapter 102 regulations to require these buffers statewide. These buffers are shown on Map 5-2 for demonstration purposes.
  - b. Consider incorporating the Lehigh Valley Planning Commission model Wellhead Protection ordinance to help ensure a reliable, future water supply. The purpose of this ordinance is to protect surface and groundwater supplies and includes the riparian buffer provisions discussed above.
  - c. Maintain Floodplain and Wetland Protections in keeping with Best Practices and models. În addition to maintaining an up-to-date floodplain ordinance, the Township may also consider amending the Zoning Ordinance to provide Township specific wetland protections, for those wetlands not associated with a floodplain area. These protections may include wetland buffers of between 35 and 50 feet and limitations on development on hydric soils found adjacent to existing floodplains or wetlands.
  - d. Provide a two-tiered approach to protecting steep slopes:
    - i. For slopes between 15% and 25%, provide maximum disturbance and impervious limitations on lots with a minimum site area of one to three acres depending on the availability of public sewer and water. Establish more stringent construction standards for controlling stormwater and erosion, with every effort made to prevent or mitigate any negative impacts o of the development on the slope and surrounding properties.
    - ii. Prohibit development of slopes greater than 25%.
  - e. Adopt standards for protecting woodlands, and protection/replacement of shade trees and shade tree canopy.
    - i. Establish disturbance limitations for remaining woodland areas in the Township, based on a sliding scale that includes the overall size of the stand and the average size of trees within it. Provide additional standards for woodland areas located on or adjacent to steep slopes.
    - ii. Adopt tree protection standards, particularly for specimen trees larger than 24" diameter at breast height.
    - iii. Provide replacement standards for woodland and specimen trees that are removed as part of subdivision and land development plans.
    - iv. Require street trees in all new development.
  - f. Require additional investigation and studies for development proposed on sites that have underlying karst/carbonate geology.
  - g. Amend the Zoning and Subdivision and Land Development Ordinances to require an Environmental Impact Assessment and Mitigation Report for certain developments. This tool is commonly used to better assess and determine the impacts of development on the existing community and its resources, as well as potential mitigation strategies. Typically, the report is triggered and required by developments of a certain size and/or type (e.g., residential developments of five units or more or nonresidential development on 5 acres or larger).
  - h. Establish additional limitations for development proposed in the designated Crackersport Ponds area and work with the County and LVPC on acquiring easements for this Natural Areas Inventory Site.
- 2. Support and invest in the regional greenways concept to link the Township's "green infrastructure", which could include Covered Bridge Park. Proposed greenways should provide for connection between natural, agricultural and historic resources. The LVPC Comprehensive Plan for 2030 conceptually depicts the Jordan Creek and surrounding area as a "Major Park and Open Space Area."
- 3. Partner with variety of public and private agencies to advance conservation efforts for natural resources.
- 4. Reactivate the South Whitehall Township Environmental Advisory Committee. This Committee could take an advisory role in the review of applications to modify the provisions for environmental regulations, such as those proposed above. Recommendations would be provided to appropriate decision-making body.







**Notes** 

RESOURCE PROTECTION WORKBOOK 26





# 2009 SWT Comprehensive Plan: Agricultural Resources Recommendations

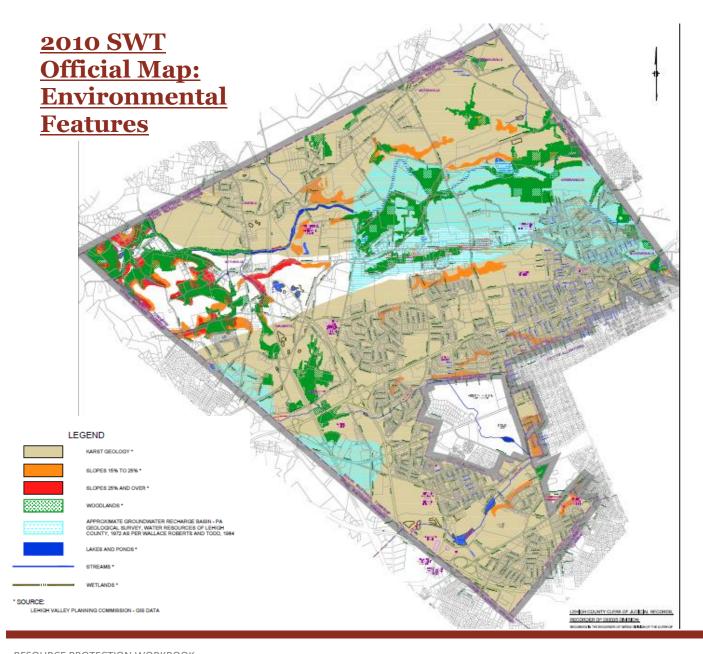
#### **Notes**

## **Agricultural Preservation Considerations**

- 1) Assess the public's view on farmland preservation and the use of taxpayer money to preserve more farms in South Whitehall Township.
- 2) Consider a municipal farmland preservation program through purchase of development rights (conservation easements).
- 3) Work with the County and State to facilitate farmland preservation measures.
- 4) Revise Township ordinances to ensure they support the normal operations of agricultural uses by:
  - a) amending nuisance provisions that infringe on a farmers' ability to perform necessary functions;
  - b) requiring agricultural buffers to ensure residential areas do not encroach on agriculture;
  - c) permitting agriculture support businesses in agricultural areas.
- 5) Provide education and outreach materials to farming and non-farming residents about the g to the Township and what it means to live near a farm.





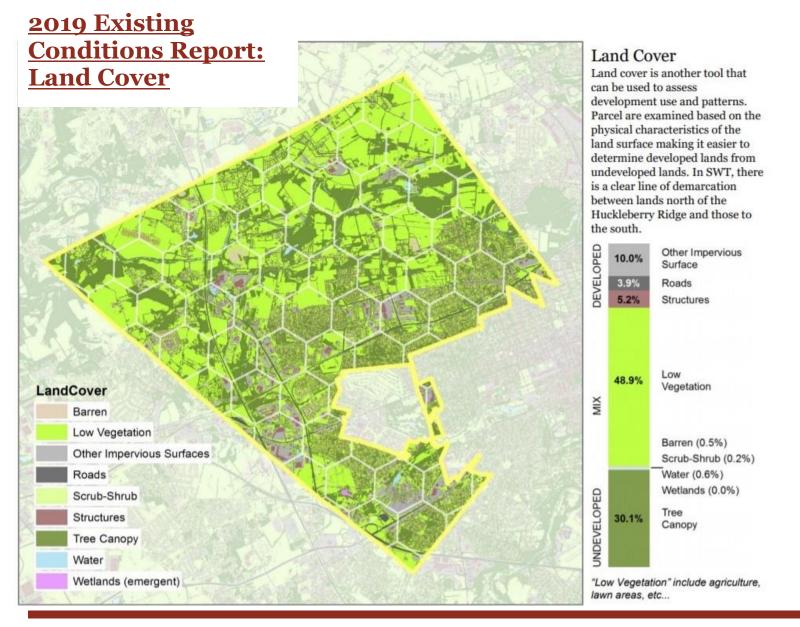


**Notes** 

RESOURCE PROTECTION WORKBOOK







RESOURCE PROTECTION WORKBOOK 29





**Notes** 

# Resource Protection Today: Phase 4 Kickoff Meeting March 31, 2021







# **Discussion Template**

## 1. What information or data is significant?

- More data on sources of funding for preservation
- Need SWT Park Master Plan
- Historic Preservation and Landmark Preservation
- How to incorporate historic sites into the future
- Preserve the sunset spots and scenic vistas
- How to preserve the countryside -- what mechanisms are in place?
- · Quality of Life
- Salvaggios?
- Importance of views
- Guth House
- Rails/Trails
- Open space to explore
- Parks -- Covered Bridge

## 2. Why is it significant?

- Agricultural easements
- Land for agricultural preservation
- How things will be built up
- SWT has o farmland preserved --- why is it important
- Walkability and safety
- Neighborhood fabric -- keeping it the same
- · Connectivity to things you want to walk to





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## 3. Where geographically is it significant?

- Lack of woodlands in the township -- 2010 Official Map
- Defining where environmental features are to be -- 2010 Official Map
- Agricultural -- Forestry/Harvest
- NW Corner is hilly -- how to preserve, improve hiking trails?
- Purchase of Development Rights (TDRS) (Upper Saucon example)
- Kohler Ridge
- 309 Corridor gets busy traffic
- Walbert and Cedar Crest
- Jordan Creek Greenway -- Easements for trail
- Getting out in nature, passive recreation -- Kohler Ridge
- Ridgeview Traffic
- 309 Corridor -- impacts of new development

## 4. Do you disagree with anything?

- Will there be lessons learned from the 2009 Comp. Plan?
- Be more rigorous with lessons learned from 2009 Plan
- Lack of language on open space preservation in 2009 Plan (Ex. Lower Nazareth issues with easements -- legal for farmland can be confining)
- What if nobody wants to farm agricultural land in the future?





## 5. Is anything surprising?

- Lack of woodlands on official map -- appears to be lots of trees here
- Lack of preserved space
- No budget or funding set aside for preserving land -- SWT further behind, we are playing catch up
- Lack of agricultural zoning -- Zoning allows for it under RR

## 6. What are we missing?

- This group -- as township is built out, how will that consume resources we want to protect?
- What all this development is going to do?
- More people coming = more resources being used, so protect what we have





# **Key Takeaways – Working Group Meeting #1**

- Lack of preservation goals, plans and funding
- Lack of farmland preservation
- Preserving what we have





# Working Group Meeting #2: LVPC Subject Matter Experts

Subject Matter Experts (SMEs) from the Lehigh Valley Planning Commission (LVPC) will present relevant data, tools, and best practices to each working group. Participants will have a chance to discuss the ways to address problems in South Whitehall Township and move forward towards identifying recommendations with SMEs.

## **Goals**

- Review and discuss SME sourced data
- Learn about tools and best practices
  - > Identify initial recommendations

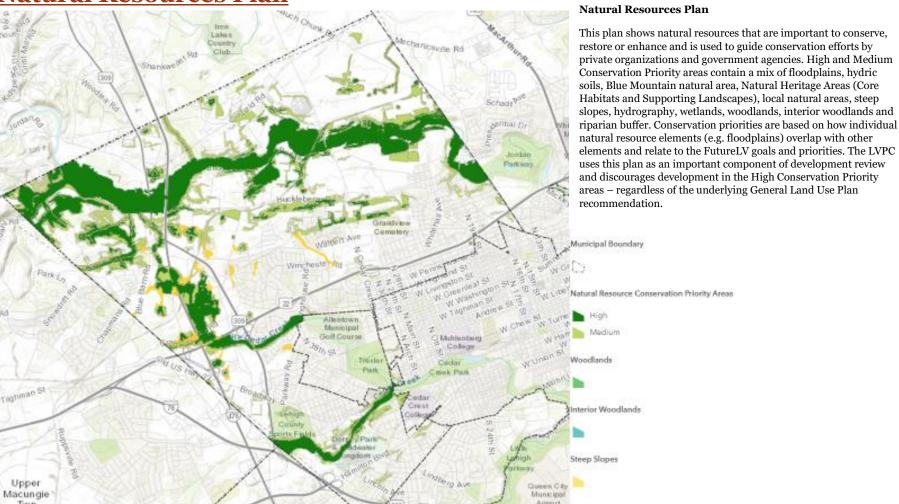
## **Outcome**

Create a high-level list of initial recommendations that will be prioritized and built out at Working Group Meeting #3.





# FutureLV Data (LVPC): Natural Resources Plan



Access the LVPC FutureLV's Interactive Natural Resources Map here: <a href="https://tinyurl.com/2fy6ct4w">https://tinyurl.com/2fy6ct4w</a>





Farmland Preservation Plan

FutureLV Data (LVPC):
Farmland Preservation Plan

## This plan shows farmland areas that are important to preserve, and is used to guide farmland preservation efforts by private organizations and government agencies. High and Medium Preservation Priority areas were identified by looking at a combination of existing agricultural lands, existing agricultural easements, locally designated agricultural security areas, high-priority soils and their proximity to other farms. The LVPC uses this plan as an important component of development review. High Preservation Priority Areas are identified on the General Land Use Plan either for Farmland Preservation or certain Preservation Buffer areas. In the Preservation Buffer area, Farmland Preservation is preferred. Medium Preservation Priority areas should be preserved as possible through county and agricultural easement programs. Other farmlands not depicted on the plan, either due to small size, lower soils quality or lack of proximity to other farmlands, should be considered for preservation as the opportunity arises. County Boundary Municipal Soundary Allentown Agricultural Lands Agricultural Security Areas Agricultural Conservation Easements Upper Macungie Municipal Farmland Preservation Areas

Access the LVPC FutureLV's Interactive Farmland Preservation Map here: <a href="https://tinyurl.com/jrj5baps">https://tinyurl.com/jrj5baps</a>





# Resource Protection Future: Phase 4 Kickoff Meeting March 31, 2021







# **Discussion Template**

# 1. What is working well now in South Whitehall Township?

- Restoration of Riparian Buffers
- Leadership in development of Jordan Creek Greenway
- Jordan Creek greenway. Parks.
- Twp has great existing parks and is adding a new park and extending the Jordan Creek trail to the high school
- Strong focus and has been successful on parks, creation, and trailways
- Protection of Kohler Ridge includes steep slopes, woodlands and meadows
- Working on the 10-year comprehensive plan now
- Formation of Land Preservation Committee
- Covered Bridge Park

# 2. What are the problem areas?

- Hard to reuse many old buildings, esp. barns
- Plan for farmland preservation
- Need to re-start work on funding sources
- Need incentives for protection
- Funding source for preservation needs to be established
- Define interests in preservation leverage official map
- Not having a budget or collecting funds for land preservation
- SWT has zero official Agricultural Preserved land. Land Reservation Committee will make it happen
- Opportunity for Open Space Place => fund?
- Need to priorities the different types of places in the Township so preservation priorities can be made
- Need to prioritize natural resource areas so they can be protected as building occurs





# 3. What SME tools or best practices are relevant to addressing these problems?

- Conservation Easements and purchase of development rights
- Review and Update the Historic Resource Section in the Zoning Ordinance
- Transfer of Development Rights what would that look like in SWT?
- Northampton County match county money with state money for much more funding for preservation; a township individually has to choose to enact that
- Many considerations, including increasing density in certain places and high legal fees
- After action items related to comprehensive plan
- BOC/PC of SWT education on preservation tools and funding sources; potential workshops for BOC/PC to review tools
- LVPC Lehigh Valley Government Academies, Community Planning class (101 on what can do in PA)
- Official Map
- Areas like to see preserved, transfer of development rights from that place to another place in community where it is better to accommodate other types of development; legal means looking at development rights of properties use those rights to get development in places that make sense (i.e. where community utilities exist)





# 4. What recommendations based on SME tools and best practices should we carry forward to the Comprehensive Plan Update?

- Update Parks, Recreation, Trails and Open Space plan
- Ag easement program appraisal of property, county does have a cap for higher value farms could hinge in part of municipality to provide matching funds
- Inventory sensitive areas, add them to Official Map and develop regulations to protect and preserve them
- Form a historical society? Collaborate with Lehigh County historical society?
- Funding tools for township increasing EIT, .25%, municipalities use that to raise funds related to natural resource or farmland protection, requirement is open space plan in place
- Confirm if can use for first class townships
- Education before goes on the ballot is critical
- Official map updates
- Municipality preserve properties on own (w/o) going through county program, easements for preservation (Bushkill Twp)
- Consider a Transfer of Development Rights program if density receiving areas can be determined
- Where sidewalk networks connect good way to talk about and think about parks, rec, open space connections
- Develop more flexible regulations to allow adaptive re-use and preservation of historic structures
- Maybe a different sidewalk or mosaic on Cedar Crest and Hamilton to denote that it is historic Dorneyville Settlement and King George Inn
- Township has local funding for agricultural preservation, match with county money, then county can receive
  additional state money for preservation
- Honor the story/record what has happened how could that inform the plan?
- How do we preserve the story? How does SWT want to preserve their history and their story?
- How to pull together resources and tell a story (where we were, where at now, and where we are going in the future)?
- How do we connect the dots?





# Working Group Meeting #3: Prioritize and Develop Recommendations

Meeting #3 focuses on building out the recommendations identified in Meeting #2. Working Group members will prioritize their recommendations and develop recommendations utilizing the Recommendation Template.

# Goals

- Prioritize and assess recommendations
- **>** Build out Recommendation Templates
- Prepare to present Recommendations at the Concluding Working Group Meeting

## Outcome

Prioritize recommendations and then identify key goals, key actions, leaders, partners, funding, and timeline. These recommendations will be presented to the South Whitehall Township Planning Commission at the Concluding Working Group Meeting, and will directly inform the Comprehensive Plan Update.





# **Prioritization Exercise**

Recommendations	Final Working Group Recommendation Prioritization
<ul> <li>Official Map Updates</li> <li>Funding Structures and Resources</li> <li>Preservation ToolBox</li> <li>Pull together resources to tell SWT's story</li> <li>Connectivity/Close Gaps</li> <li>Flexible Regulations for adaptive reuse and historic preservation</li> </ul>	1. Preservation ToolBox 2. Funding structures and resources 3. Official Map Updates 4. Flexible regulations for adaptive reuse and historic preservation 5. Connectivity/Close Gaps 6. Pull together resources to tell SWT's Story





#### Recommendation: Preservation Toolbox (Historic, Natural Resources, Agricultural

#### **Key Goals:**

- Clear
- A written document that can refer to understand and distribute to landowners with options
- KNOW what your options are
- Implementable
- · Serves as a springboard for action
- Appealing and build buy-in from property owners
- Useable

#### **Key Actions:**

- Education program is KEY
- Serve as a community resource
- Create a three chapter document (historic; natural resources; agricultural preservation)
- Get it to be used in a way beneficial to both TWP and landowners = a win-win
- Build resource; Communicate its purpose; educate potential users, beneficiaries
- Provide background information
- Transfer of Development Rights

#### Stakeholders Funding Sources

#### Who Leads?

 CED w/ support of planning experts, Executive Administration; Elected Leaders

#### Who Partners?

 Lehigh County Ag; Historical societies; LVPC; Wildlands; landowners; residents • Look at Recommendation #2 - Funding Sources

#### Implementation Timeline (near-term, mid-term, or long-term):

- First thing that needs to happen, it is the CORE
- · Near-term

#### Measures of Success:

- Gain landowners interest
- · Preservation (of all kinds) increases





## Recommendation: Funding Sources

#### **Key Goals:**

- · Get 'skin in the game'
- Generate/categorize list of funding sources

#### **Key Actions:**

- Help inform Toolbox development?
- · If have budget surplus, way to allocate
- Increasing EIT (Earned Income Tax) by .25% to raise funds related to natural resource protection
- Identify where funds can be used (i.e. historic; natural resource; agricultural)
- Understanding funding options
- EIT; Grants; Match Programs; Private Foundations

## Stakeholders Funding Sources

#### Who Leads?

· Executive Admin., CED, Finance

#### Who Partners?

 Legislators, Foundations, County/State/Federal Agencies

#### Implementation Timeline (near-term, mid-term, or long-term):

- Ongoing
- · Near term identify current sources
- Mid-term: Better define funding/resources in budget; dedicate resources in budget

#### **Measures of Success:**

Funding





Key Goals:     Create the vision     Set the priorities	<ul> <li>Key Actions:</li> <li>Barn inventory</li> <li>Sensitive areas</li> <li>Jordan Creek Greenway District?</li> <li>Connectivity: sidewalks, trails, greenways, open space</li> <li>Add Jordan Creek Greenway</li> <li>Important connections</li> </ul>
Stakeholders	Funding Sources
<ul> <li>Who Leads?</li> <li>CED, Planning Commission, BOC</li> <li>Who Partners?</li> <li>Public</li> </ul>	• Township Budget
Implementation Timeline (near-term, mid-ter  • Near	rm, or long-term):

#### Measures of Success:

• Jordan Creek Greenway Cultural District





### Recommendation: Flexible regulations for adaptive re-use and preservation of historic structures

Key Goals:	Key Actions:
<ul> <li>Incentivize preservation of historic structures</li> <li>Preservation of historic structures</li> </ul>	<ul><li>Incentives</li><li>Cluster development</li></ul>
Reuse of historic structures	<ul> <li>Reuse - help tell the story of SWT</li> <li>Pull together resources to tell a story</li> </ul>
	Financing for maintenance
	<ul> <li>Potentially rezone to support uses that can help</li> </ul>

Stakeholders	Funding Sources

#### Who Leads?

• CED, Administration, Planning Commission

#### Who Partners?

Lehigh County

• Private Donors

preserve?

- · Grant program to facilitate/fast track
- Help keep structures long-term

· Form a historical society?

### Implementation Timeline (near-term, mid-term, or long-term):

- Mid-term
- Ongoing

#### **Measures of Success:**

Preserve a barn





# **Working Group Concluding Meeting**

Each Phase 4 Working Group will present their recommendations to SWT staff and the Planning Commission to generate constructive feedback and discussion. The recommendations, feedback, and discussion will inform the drafting of the Comprehensive Plan Update.

# **Goals**

- Present recommendations
- Provide feedback and facilitate discussion
- > Advance recommendations to Planning Commission drafting of Comprehensive Plan

## **Outcome**

Phase 4 will conclude with presentations of Working Group recommendations to the Planning Commission, informing the Comprehensive Plan Update.



