

Appendix F

COMMUNITY FACILITIES and SERVICES INVENTORY

Introduction

There are a variety of community facilities and services currently available to residents of East Goshen Township that pose an impact on community planning. Current service levels are assessed in this Appendix in order to project future demands. Services such as police and fire protection directly relate to the health, safety, and welfare of the community, while facilities such as parks and libraries contribute to the quality of life.

To provide a comprehensive inventory of services and facilities, this section reviews both Township-operated services and those services and facilities provided by other authorities or organizations as follows:

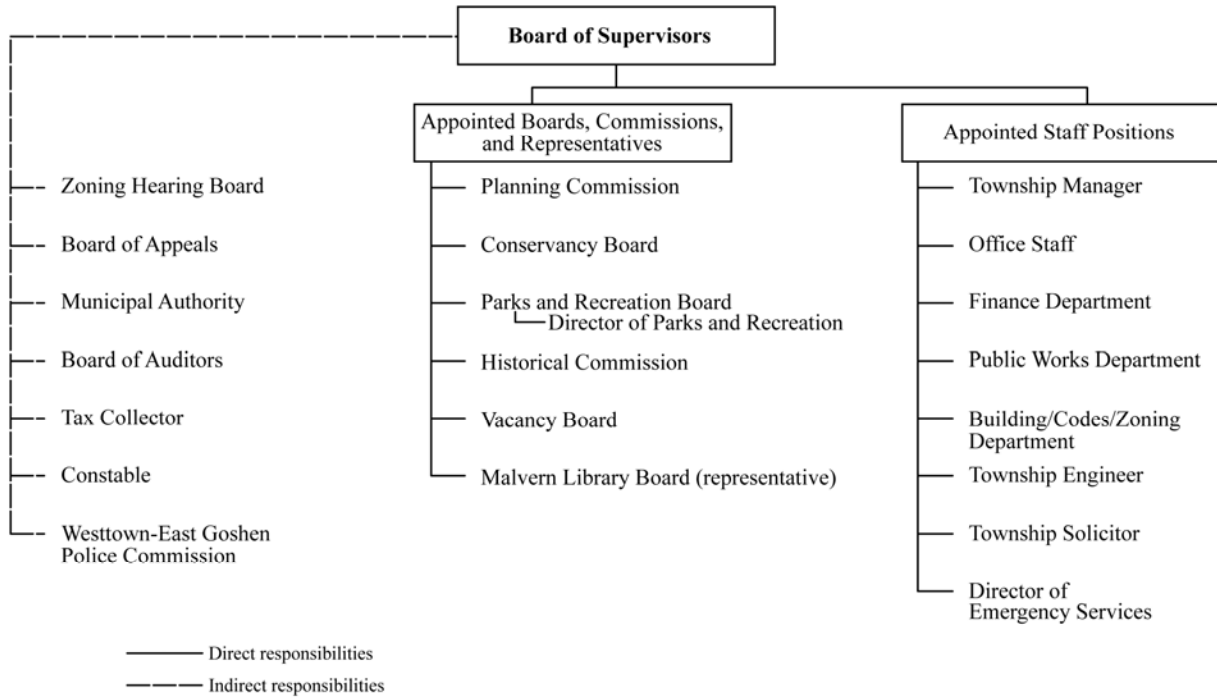
- Administration and Facilities
- Open Space and Recreation
- Police Protection
- Fire Protection and Ambulance Service
- Solid Waste Management
- Stormwater Management
- Water Supply
- Wastewater Management
- Education Facilities
- Library
- Citizen Participation

Administration and Facilities

East Goshen Township administration is currently located at the Township Building at 1580 Paoli Pike west of Route 352 (North Chester Road). The Township Building includes office space for administration, code enforcement, clerical services, storage space, two conference rooms suitable for work sessions, and the main public meeting room for Supervisor meetings as well as for public meetings conducted by the Township's various advisory authorities boards and commissions.

East Goshen Township government is established under the Second Class Township Code. The Board of Supervisors serves as the governing body with the authority to hire Township staff and appoint representatives to the various authorities boards, commissions and committees. In 2003, Township staff consisted of a Township Manager, Zoning Officer, Treasurer, two Building Inspectors, a Director of Public Works and an Assistant, a Director of Recreation, a Director of Finance and Administration, a Director of Emergency Services, and a part-time Recording Secretary. Volunteer services are provided by the Planning Commission, Zoning Hearing Board, and additional Authorities, Boards, Commissions, and Committees established by the Board of Supervisors. These are listed on page F-2.

Figure F-1: Township Government Organization



Source: Chester County Planning Commission, 2004 (based on chart in East Goshen Township Open Space, Recreation and Environmental Resources Plan, 1993).

The Township consults with various firms and agencies for a variety of services. There are separate solicitors to provide legal counsel for the Township, the Zoning Hearing Board and the Municipal Authority. The functions of Township Engineer and Tax Collector are contracted to fulfill those services. In addition, the Chester County Planning Commission has been contracted for planning services. The Township has also worked with the County Planning Commission as part of the West Chester Regional Planning Commission’s efforts at coordinating and studying the Region’s traffic, land use, and sewage facilities.

The Public Works Department facility is part of the Township Building complex and approximately 10,000 square feet of the building are devoted to this use. The Department is responsible for maintaining 70 miles of township road, 60 miles of sanitary sewer, 1,215 manholes, 6 pump stations, 2 sewer plants and almost 400 acres of Township Park and Open Space.

Citizen Participation

Strong support, understanding, and involvement from residents for the various Township programs is essential to the operation of the Township. Citizen participation enables the Township to inform residents of municipal programs and for the residents to provide local input. The Township newsletter and web page (<http://www.eastgoshen.org>) have helped to inform residents of the Township on programs and issues. Various public information meetings held by the Township allow opportunity for public input to the planning process of the Township.

The establishment of various committees, commissions and citizen groups have helped address local issues such as open space/recreation, historic preservation and crime prevention. Citizen participation in these programs is viewed by the Township as being extremely valuable and necessary. Such groups often provide

informative assistance, promote good Township/resident relations and reduce various administrative costs. Volunteerism on the Township Authorities, Boards and Commissions (ABCs) has remained at a high level. The following is a list of the various Township volunteer appointed boards and commissions:

- Planning Commission
- Zoning Hearing Board
- Parks and Recreation Board
- Conservancy Board
- Historical Commission
- Municipal Authority
- Local Traffic Advisory Committee
- Board of Appeals
- Board of Auditors
- Vacancy Board
- West Chester Regional Planning Commission Representative
- Malvern Library Board Representative

Open Space and Recreation

The Township has worked to retain the unique natural resources and features of East Goshen. As an initial effort, the 1992 Comprehensive Plan identified the preservation of an open space network. The network is comprised of the various stream valleys, wetlands and steep slopes (over 25%) within the Township. The 1992 Land Use Plan designates areas within and outside of the “primary open space network” based upon the features listed above.

In 1993, the Township completed the Township Open Space, Recreation, and Environmental Resources Plan. This Plan provides a detailed inventory of the Township geology, groundwater, soils, slopes, floodplain, and woodlands. Parks and recreation needs were analyzed based on the existing and projected population and using guidelines from the National Recreation and Park Association. The Plan suggested that the Township create additional parkland in terms of linear passive parks within the twenty-year planning horizon of the Open Space Plan.

A number of the recommendations, such as the addition of requirements for land dedications for recreational use or other financial compensation in-lieu of land dedication (typically called “fee-in-lieu” provisions) in the Township Subdivision and Land Development Ordinance, have been completed. In addition, the development of the open space network, as envisioned in the Open Space Plan, is partially completed through the development process using alternative lot design techniques such as lot-averaging and clustering in order to protect the network through private or common deed restricted open space.

There are several parks and recreational areas within East Goshen Township, with additional facilities located immediately adjacent to the Township such as the East High School/J.R. Fugett Middle School complex, with its wide variety of recreational fields, as well as additional athletic facilities in the Township, across the street from the Schools complex. These facilities are identified in Table F-1 and displayed on Map F-1.

Table F-1: Active Parks and Recreational Facilities

Facility	Ownership	Area	Recreation Facilities
East Goshen Township Park	Township	55 acres	tennis courts, soccer fields, multi purpose field, volleyball courts, basketball courts, baseball fields, t-ball, fitness area, putting green, picnic pavilion, playground, walking path
East Goshen Township Mill Creek Softball Field	Township	18 acres	Walking path, softball field, rec facility
East High School Athletic Facilities	School District	42 acres	School athletic events: baseball, multi purpose fields
East Goshen Elementary School	School District	14 acres	tetherball courts, softball/Little League field, soccer field, basketball court, playground

Source: *East Goshen Township Open Space, Recreation, and Environmental Resources Plan* (1993), Township records (2003).

In addition to the facilities indicated in Table F-1, the Township owns several open space parcels created as a result of clustered residential developments, and dedicated to the Township as part of the land development process. Table F-2 indicated these open space areas, and acreages, and these are shown on Map F-1.

Table F-2: Township-Owned Neighborhood Parks and Passive Open Space Areas

Open Space Area (by Development Name)	Total Acres
Grand Oak Run	10
Milltown Park	1.6
Blacksmith Shop	1
Bow Tree I	6
Goshen Downs	5
Hershey Mill Estates	25
Hunt Country	6
Marydell	21
Meadows	8
Pin Oaks	5
Reservoir	20
Rockland Village	18
Supplee Valley	28
White Chimneys	6
Bow Tree II-III & Clocktower Woods	109
Coventry Woods	6
Waterford	9
Wentworth	21
Applebrook	100
Total Open Space	405.6

Source: *East Goshen Township Open Space, Recreation, and Environmental Resources Plan* (1993) and East Goshen Township property records (2003).

Table F-3: Privately-Owned Open Space Areas

Open Space Area (by Development Name)	Total Acres
Ashbridge Farms Lot 1 (Willistown Conservation Trust [91%] and Township [9%])	55
Applebrook Golf Club	161
White Chimneys	10
Hershey Mill Village Golf Club	108
Hershey Mill Village Open Space	239
Charter Chase	8
Lockwood	40
Hershey Mill Estates	6
Willow Pond	8
Rossmore	36
Reserve at Spring Meadows	12
Hadleigh	10
Greenhill Subdivision	7
Total Open Space	700

Source: *East Goshen Township Comprehensive Plan (1992)* and East Goshen Township property records (2003).

The Township’s Park and Recreation Board oversees the multiple recreational programs provided by the Township. The Open Space, Recreation, and Environmental Resources Plan (1993) details the programs provided by the Township at Township-owned facilities. The Township has also established a Conservancy Board (CB), which provides advisory comments to the Township Planning Commission on land developments and other environmental and natural resource issues. Further information on natural resources is available in Appendix D, Natural Resources Inventory.

Police Protection

Police protection for the Township is provided through a joint agreement with Westtown Township. The Westtown-East Goshen Regional Police Department is located on Wilmington Pike (Route 202) in Westtown Township, with a substation at the East Goshen Township Building. Currently, the Department provides police services to Thornbury Township.

The Regional Police Department provides a number of services. The Department functions on the Community Policing strategy, which attempts to decentralize services to allow for a quicker response and to develop a higher degree of trust and coordination with local residents. The Department utilizes a series of programs to meet this objective. These include a “park-n-walk” program, in which patrol units periodically leave their vehicle and walk for at least 15 minutes in the area in which they patrol; a “new residents” packet of contact and emergency information to be distributed when residents first move into the Township; a mountain bike patrol, including 6 officers; a fingerprinting program for parents of young children; and a Citizen’s Police Academy, in which interested residents attend a series of workshops to learn about the program the Department provides and to address potential issues of cooperation with the police. In addition, the Department participates in the Drug Abuse Resistance Education (D.A.R.E.) program, and provides 2 officers to visit the schools in the West Chester Area School District to instruct 5th Grade students in the program’s science and prevention message. The Department also provides a Traffic Safety program with 3 officers dedicated for 8 hours per day, a K-9 unit (established through a federal grant), a criminal investigation unit (4 full time detectives), and emergency response unit (in coordination with the Goshen Fire Company), and a Chaplain. Overall, the Regional Police Department employs a total of 42 officers, including 9 part-time patrol officers.

East Goshen and Westtown agreed in November 2002 to continue the cooperative effort of the Regional Police Department. In addition, a new police administration building housing the Regional Police was completed in 2005 in Westtown Township, and the Regional Police will continue to operate a substation in East Goshen. Overall, service of the program has been excellent. The primary issue of concern voiced by residents was excessive speeding of cut-through traffic in residential areas. The Township is working to address this issue through physical changes to roadways, which is discussed in Appendix G, Transportation and Circulation System Inventory and the creation of the Local Traffic Advisory Committee.

Fire Protection and Ambulance Service

East Goshen Township is served by two fire companies. Local municipalities have traditionally determined which Fire Company provided service to them. In February 2000, Chester County returned control of ambulance territories for basic life support to local municipalities.

The Goshen Fire Company operates two stations. Station #54 is located on Park Avenue and Station #56 is located at the corner of Greenhill Road and Boot Road, just outside the Township in West Goshen Township. The Fire Company currently provides fire protection services to 11 municipalities on a first and second response in Chester County and Delaware County. The current staffing of the Fire Company includes full time and part time paid firefighters/emergency medical technicians, along with volunteers.

The Fire Company provides both fire response and fire police to address traffic routing and containment where necessary. Twenty staff members function as fire police on call, utilizing the Fire Company's fire police van. The Fire Company maintains three engine trucks, a ladder truck, and a brush truck at its two stations. From 2000 to 2002, the number of fire runs made by the Fire Company averaged around 235 calls per year for East Goshen Township.

The Goshen Fire Company also provides ambulance service to East Goshen Township for basic life support (BLS) and other non-life threatening medical conditions. The Goshen Fire Company has one rescue truck and 3 ambulances that provide emergency medical services, with 2 firefighters/emergency medical technicians on staff. Ambulance runs typically transfer patients and fire victims to Chester County Hospital. The Fire Company averaged 2,160 ambulance responses from 2000-2002 for the Company's entire service area.

The Malvern Fire Company provides fire protection and ambulance service for BLS to the area of the Township north of Forest Lane and east of North Chester Road. Malvern Fire Company operates out of Station 4, which is located in the Borough of Malvern. From 2000-2002, the Malvern Fire Company averaged about 17 fire calls per year to the Township. During the same period, the Fire Company also responded to 611 EMS calls in the Township, of which about 150 were for basic life support.

All emergency services are initiated through the Chester County Department of Emergency Services.

Solid Waste Management

The Township contracts with a private hauler to collect trash and recyclables, with the Township billing residents on a quarterly basis. Collection in the Township occurs twice weekly. Materials for bulk pickup, such as appliances or mattresses are picked up weekly. Building materials, construction debris, automotive parts, tires, and hazardous materials are not collected by the Township.

In July 1988, the Commonwealth of Pennsylvania signed into law the Pennsylvania Municipal Waste Planning, Recycling and Waste Reduction Act (Act 101). This act contains important provisions to encourage and mandate recycling, and changes the roles of municipalities with regard to solid waste management. Mandatory recycling is required by the state when municipalities have a population of over 5,000 people. The Township is required by Act 101 to implement a mandatory program, and has a recycling collection operation under contract. Property owners are provided recycling bins for placement of recycled materials collected on a weekly basis. The Township provides for pickup of newspapers, #1 and #2 plastic, aluminum cans, and clear glass bottles/jars co-mingled from single-family residences. Apartment complexes are given the option of participating in recycling pickups; participating complexes are provided dumpsters for both trash and recyclables, and are emptied three times per week and drop offs. The Township further encourages the recycling of brown glass, green glass, bimetallic cans, cardboard, newspapers, PET #1 plastics (soda bottles), and HDPE #2 plastics (detergent and milk bottles, newspapers and cardboard), at a drop-off center provided at the Township Building. Commercial establishments are required to recycle and provide an annual report to the Township.

Currently, leaf pickup is provided to single-family residences, with at least 6 leaf pickups in the fall and additional leaf pick-ups in the spring. In addition, the Township currently provides for the pickup of up to 6 bags, containers, or bundles of yard waste (including weeds, sticks, branches or other material that is typically generated from a yard or garden) which is picked up on normal collection days. Christmas trees are collected once a year. While the Township does not provide hazardous material pickup, it participates in the Chester County Household Hazardous Materials Collection Program through the Township newsletter, advertising the annual schedule and collection points throughout the County, and through financial assistance.

Stormwater Management

Sound stormwater management practices are essential to limit the impacts of development on water quality. The reliance upon ground water supplies requires both quantity and quality protection. A comprehensive stormwater management program is important from both a public safety perspective (i.e. avoidance of floods), and a public health perspective (i.e. potable supply). Sound stormwater management is also crucial for maintaining the function and values of the natural resources. Sound stormwater management translates into a variety of impacts:

- Protection from flooding
- Preservation of natural floodplain functions
- Reduction of erosion to stream banks and siltation of stream beds
- Maintenance of stream low flow (loss in base flow)
- Management of water table levels within wells
- Reduction of sedimentation and erosion control problems.

Federal Regulations – The 1987 Amendments to the Clean Water Act (CWA) were promulgated in a phased implementation of requirements by the Environmental Protection Agency (EPA). Phase I of the National Pollutant Discharge Elimination System (NPDES) was established in 1990 for medium and large urban areas with populations of 100,000 or more people. These Municipal Separate Storm Sewer Systems (MS4s) are systems for conveying storm water including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains. Phase I also required regulation for 11 categories of industrial activity, including construction that disturbed 5 or more acres of land. The regulation required issuance of a permit, which could take the form of an individually tailored NPDES permit (used by MS4s primarily) or a general NPDES permit (used by most industrial facilities and construction sites).

Phase II of the NPDES Stormwater Program was initiated in November 1999, and required NPDES permit coverage (a minimum of the general permit requirement) for stormwater discharges from most small urbanized areas (small MS4s) and construction activities that disturb 1-5 acres of land. Phase II essentially applies to small MS4s outside an urban area but within a municipal jurisdiction with a population of at least 10,000 and a population density of at least 1,000 people per square mile. East Goshen Township is within the terms and requirements of Phase II.

The regulations under the NPDES Stormwater Program require municipalities to develop and implement a stormwater management program that contains 6 program elements. These elements, or “minimum control measures”, are:

- **Public Education and Outreach:** distributing educational materials and performing outreach to inform citizens about the impacts polluted stormwater runoff discharges can have on water quality.
- **Public Participation and Involvement:** providing opportunities for citizens to participate in program development and implementation, including effectively publicizing public hearings and/or encouraging citizen representatives on a stormwater management panel.
- **Illicit Discharge Detection and Elimination:** developing and implementing a plan to detect and eliminate illicit discharges to the storm sewer system (including developing a system map and informing the community about hazards associated with illegal discharges and improper disposal of waste).
- **Construction Site Runoff Control:** developing, implementing and enforcing an erosion and sediment control program for construction activities that disturb 1 or more acres of land (controls could include, for example, silt fences and temporary stormwater detention ponds).
- **Post Construction Runoff Control:** developing, implementing and enforcing a program to address discharges of post-construction stormwater runoff from new development and redevelopment areas. Applicable controls could include preventative actions such as protecting sensitive areas (i.e. wetlands) or the use of structural Best Management Practices (BMPs) such as grassed swales or porous pavement.
- **Pollution Prevention/Good Housekeeping:** developing and implementing a program with the goal of preventing or reducing pollutant runoff from municipal operations. The program must include municipal staff training on pollution prevention measures and techniques (i.e. regular street sweeping, reduction in the use of pesticides or street salt or frequent catch basin cleaning).

The NPDES Phase II program required permit application for MS4s by March 2003, with the full implementation of the municipal storm water management program within the permit term (usually 5 years). This program is being implemented by the Pennsylvania Department of Environmental Protection (DEP).

State Regulations – The Pennsylvania Stormwater Management Act (Act 167 of 1978) outlines stormwater management responsibilities. Provisions addressing stormwater management should be adopted at the municipal level to control runoff and reduce soil erosion. The emphasis in many stormwater management regulations throughout Chester County is on a more environmentally sensitive approach that uses natural site features and characteristics rather than of man-made structures. This method is incorporated by way of Best Management Practices. The [Pennsylvania Handbook of Best Management Practices for Developing Areas](#) is the key reference guide for design techniques in this area, and includes a sample ordinance.

In addition, the Pennsylvania Erosion and Sedimentation Control Act, Chapter 102, establishes the basic planning and implementation requirements to be followed for any land disturbing activity. Chapter 102 further establishes the threshold requirements for notifying the DEP of land disturbing activity, and in some cases the permitting requirement through the DEP. In simple terms, land disturbance of five acres or more requires the notification of the DEP prior to commencing such activity, and land disturbance of twenty-five acres or more requires the review and issuance of an earth disturbance permit from DEP, requiring the submittal of a Soil Erosion and Sedimentation Control Plan.

County Policies - The County Commissioners adopted *Watersheds, An Integrated Water Resources Plan for Chester County, Pennsylvania and Its Watersheds*. This Plan, built on the policy foundation of *Landscapes*, is a comprehensive overview of the critical water quality and quantity issues of the County's 21 watersheds, and provides planning and implementation recommendations for municipalities to improve overall stormwater quality. Included in *Watersheds* is a list of principles for comprehensive stormwater management. These principles are intended to accommodate planned growth through a method that protects public safety and maintains or re-establishes the natural hydrologic characteristics of the watershed, specifically groundwater recharge, stream baseflows, stable stream channel conditions, the carrying capacity of streams and their floodplains, and groundwater and surface water quality. Stormwater management must address the need to effectively handle stormwater at the development site, but must also effectively minimize the cumulative impacts of stormwater discharges to the stream through methods that also maintain the natural channel system and maintain water quality for wildlife and human habitats downstream. The policies established in *Watersheds* can become an effective baseline for development of integrated water resources planning at the municipal and regional level, as well as for the development of storm water management programs as required under the NPDES Phase II permit requirements.

Stormwater management is regulated by the Township Subdivision and Land Development Ordinance and the Soil and Conservation Service of Chester County, with design review and approval by the Township Engineer. The Chester County Conservation District office also offers technical review of sedimentation and erosion control plans. Major earth disturbance and stream encroachment operations are the jurisdiction of the DEP.

The Chester Creek Act 167 Plan was adopted in June 2002. This Plan addressed the issue of water quality and stream quality in both sub-basins of the Chester Creek watershed, in Delaware and Chester Counties. The implementation of the Act 167 Plan is in the form of a Chester Creek-specific stormwater management ordinance, which is required to be adopted by all municipalities in the Chester Creek watershed within 6 months of acceptance of the Plan by the DEP. East Goshen was a participant in this Act 167 Plan and has adopted the stormwater management ordinance as the Township-wide standard for stormwater management.

An additional consideration is the status of all existing stormwater management basins ("ponds") which the Township is currently charged with maintaining. Public survey responses indicate that (44%) was in favor of rehabilitating these ponds.

Water Supply

The majority of residents in East Goshen Township are served by public water supplied by the Aqua Pennsylvania (Aqua PA). According to the *Water Resources Compendium* (2001) prepared by the Chester County Water Resources Authority, the estimated 1998 population of East Goshen currently utilizing individual wells was 3,728, out of a total 2000 Census population of 16,824. However, the entire township is located within the Aqua PA franchise area.

For purposes of this section, we will compare the total amount of ground and surface water withdrawals and total water volumes based on the two watersheds in which East Goshen is located, Chester Creek and Ridley Creek. For further clarification, these two watersheds are further divided into subbasins: Chester Creek is subdivided into the Lower and Upper East Branch subbasins, while Ridley Creek is subdivided into Lower and Upper sub-basins.

Ground Water Withdrawals - Aqua PA withdraws ground water from 2 wells in the upper sub-basins of Chester Creek and Ridley Creek in East Goshen Township. Table F-4 indicates the total yearly volume of water withdrawn from these points, and the year the data was verified. Three other wells previously used for ground water supplies have been abandoned.

Table F-4: Ground Water Withdrawal Sources (East Goshen Township)

Location of Well	Total Volume Withdrawn (gallons/year) [year]	Watershed
Grand Oak Well	34,520,240 [02]	Upper E. Branch Chester
Hunt Country Well #21a	24,250,600 [02]	Upper Ridley
Total Volume Withdrawn	58,770,840	

Source: *Water Resources Compendium* (CCWRA, 2001); updated data provided by DEP, 2003.

Surface Water Withdrawals – There are no points in East Goshen where surface water is currently being withdrawn. However, there are three locations within the upper sub-basins of the Chester Creek and Ridley Creek watersheds where water is currently withdrawn for public water supply purposes. These are detailed in the Table F-5, along with municipal location, total volume withdrawn, and year data was verified.

Table F-5: Surface Water Withdrawal Sources (Chester Creek and Ridley Creek Subbasins)

Withdrawal Location and type of source	Municipal Location	Total Volume Withdrawn (gallons/year) [year]	Watershed Sub-basin
Aqua PA Fern Hill Plant (West Chester Reservoir)	West Goshen Township	233,016,000 [00]	Upper E. Branch Chester
TransMaterial Co. – springfed pond	West Goshen Township	3,250,000 [02]	Upper E. Branch Chester
Edgemont Golf Course – Ridley Creek	Edgemont Township (Delaware County)	4,670,175 [01]	Upper Ridley
Total Volume Withdrawn		240,936,175	

Source: *Water Resources Compendium* (CCWRA, 2001); updated data provided by DEP, 2003.

The Ridley Creek source location has reported problems whenever drought drops the level of the creek below the effective capacity to draw water, and has been discontinued from time to time in response to drought periods.

The total number of withdrawals and volumes for each subbasin are detailed in the Table F-6.

Table F-6: Total Withdrawals (Chester Creek, Ridley Creek Sub-basins)

Watershed Subbasin	Total Number of Withdrawal Points (Surface and Ground)	Total Volume Withdrawn (million gallons/year)
Upper East Branch Chester Creek	49	1,301.5
Upper Ridley Creek	21	1,109.1

Source: *Water Resources Compendium* (CCWRA, 2001); updated data provided by DEP, 2003.

Individual (Private) Well Withdrawals – The Chester County Water Resource Authority estimated a total of almost 9,100 persons in the upper sub-basins of Chester Creek and Ridley Creek are serviced through individual private wells on private property. These wells accounted for a total yearly withdrawal of approximately 199 million gallons, the majority (72%) of which is within the Upper Ridley Creek sub-basin. Of these totals, East Goshen had an estimated population of 3,728 persons served using private wells, with a total yearly withdrawal of just under 82 million gallons. This total population represents 1,586 residential units currently relying on individual wells for their water supply.

Summary – It is important to view water supply as something beyond one’s own faucet. These numbers correlate with the need to consider water supply in a regional (watershed) context. Impacts to the water supply in one portion of the watershed have a corresponding negative impact further downstream. As the population continues to increase in the West Chester Region, and as growth continues to ultimate build-out in the Township, it is important to understand that this growth will require at least an acknowledged impact on the ability to supply potable water to existing and future residents and commercial operations.

The estimated population served by Aqua PA in 1998 was 598,000, with an estimated daily use of almost 75 million gallons of water. The population served in Aqua PA’s existing franchise area is expected to increase to a 2020 estimate of almost 640,000, an increase of 7%. While the percentage is not large, an increase of about 42,000 persons, at an estimated use of up to 60 gallons per person per day, can result in a sizable increase in water supply needs.

Thus far the total impact on stream volume of baseflow (the average flow of water in the stream measured in inches per year) is not considered serious. The impacts in the overall Chester Creek and Ridley Creek watersheds have thus far been minimal, accounting for a total withdrawal of about 1% of baseflow in Chester Creek and 6% of baseflow in Ridley Creek. However, the indications are that, given the estimated 2020 population, the increase in overall impact could increase to up to 4% of baseflow in Chester Creek and 7% of baseflow in Ridley Creek, and up to 12% of baseflow in the Upper Ridley Creek subbasin. These are causes for concern, since the estimated growth in population needs to be balanced by an ability to sustain the total volumes of water in surface and ground water supplies. This means that the municipalities in each watershed need to coordinate effective means to recharge existing water supply sources.

Wastewater Management Facilities

Eighty percent of the Township is served by municipal sewers. There are several municipal wastewater treatment facilities that provide service to the Township. These are:

- **Lockwood Chase Treatment Plant** – This plant is owned and operated by the East Goshen Municipal Authority. It serves 103 homes in the Township and another 26 homes in East Whiteland Township as part of the Lockwood Chase subdivision in the northeast corner of the Township, at the intersection of North Chester Road (Route 352) and King Road. The plant was built specifically for the subdivision. The plant provides secondary treatment using aerated and storage lagoons, with spray irrigation of treated, disinfected effluent. The capacity of this plant is 25,000 gallons per day (gpd), with 22,000 gpd recorded as the daily average flow.

- Ridley Creek Treatment Plant** – This plant is owned and operated by the East Goshen Municipal Authority. It is located in the southeast section of the Township south of the Hunt Country and Clocktower Woods subdivisions and adjacent to Ridley Creek. The plant provides treatment for portions of the Township in the Ridley Creek watershed and a few residences in Willistown Township. The plant is currently permitted to treat 750,000 gpd of which 284,000 gpd is the daily average flow. Allocated or pre-purchased capacity (via development or permit approvals) totals 380,000 gpd. Based on previous experience, actual sewage flows run about 20 percent less than what was allocated per connection. The plant uses a tertiary treatment process utilizing a dual train pre-engineered extended aeration system followed by upflow sand filters, ultraviolet disinfection and re-aeration. The treated effluent is then discharged to wetlands for overland flow to Ridley Creek. This system includes a single pump station for the Hunt Country subdivision, which is rated for a maximum flow of 25,000 gpd, but currently averages 19,525 gpd.

The Authority has received DEP approval to divert up to 135,000 gpd of treated effluent to a pond on the Applebrook Golf Club for use in spray irrigation of the golf course. The approval allowed for the effluent to be sprayed directly onto the golf course. The approval limited the diversion of effluent to an “as needed” basis, which is when the pond level is low and there is a need to irrigate the golf course. This diversion will not allow for additional treatment capacity above the previously approved level.

- West Goshen Treatment Plant** – This plant is owned and operated by the West Goshen Sewer Authority, and is located in the south central portion of West Goshen Township. This plant provides tertiary secondary treatment prior to discharging into the West Branch of Chester Creek. The sewer conveyance system in the Chester Creek Basin to the West Goshen sewer system at served locations, with interconnections flowing through 5 sewage meter pits, which continuously monitor, record and total the daily average flow into the West Goshen system. As part of this system, East Goshen maintains several pump stations as detailed in the Table F-7.

**Table F-7: East Goshen Pump Stations
(for West Goshen Treatment Plant System)**

Daily Average Flow	Capacity	Current Flow
Ashbridge	115,000 gpd	50,000 gpd (1)
Hershey’s Mill	259,200 gpd	48,392 gpd
Reserve at Spring Meadow	10,000 gpd	7,875 gpd (1)
Marydell	10,500 gpd	8,250 gpd (1)
Mill Valley	30,000 gpd	n/a (New Station)

Source: Regional Sewage Study, WCRPC, 2001.

(1) Estimated flows.

The West Goshen treatment plant is designed for a capacity of 6.0 million gallons per day (mgd), and has a current daily average flow of 2,102,000 gpd. Of this capacity, thru an intra-township agreement, East Goshen has a maximum allocation of 1.0 mgd, of which the current daily average flow utilized is 811,456 gpd. The 2001 Regional Sewage Study, prepared by the West Chester Regional Planning Commission, estimated that this treatment plant would have a projected flow of over 4.9 mgd by 2004, of which East Goshen would account for about 858,000 gpd.

In addition to the municipal treatment systems, there is a privately owned and operated community wastewater treatment system at Hershey’s Mill Village. This facility is owned and operated by the Greenhill Sewer Association, comprised of members living in Hershey’s Mill Village. The plant utilizes a secondary treatment system of aerated and storage lagoons and spray irrigation of treated effluent on 125

acres within the Village. The facility is designed to provide capacity for the entire development at buildout, which is expected to include 1,716 residences, 60 independent living residences, a 100-bed assisted living/skilled care facility and a 74,000 square foot shopping center. Maximum capacity of the system is 325,000 gpd, with a current daily average flow of 225,000 gpd.

Existing individual on-lot discharge systems (OLDS) total 562 individual systems, which are located in older developments where it is not currently cost effective to extend gravity sewer mains to connect these properties, or are systems that the owners have elected to maintain. The Township has a policy of permitting owners of failing OLDS to connect to the Township sewer system, where the location of existing public sewer is convenient, at cost to the property owner. During the period from January 1997 to March 2000, the Regional Sewage Study reported 15 OLDS seepage areas were replaced. The Authority is studying the possibility of and cost of providing sewer service to all of the homes in the Township.

Wastewater Management Planning

East Goshen Township updated its 1994 Act 537 Plan to respond to specific issues in 1995 and 1997. The DEP directed the Township to adopt a Sewage Maintenance Ordinance to reduce OLDS failures. This ordinance (Ordinance #105) requires owners of OLDS to have their septic tank pumped once every 3 years, in order to extend the useful life of the seepage area. The Township adopted this ordinance and provides for a \$10 registration fee every third year for the administration costs of the program.

The Township has received DEP approval to expand the Ridley Creek Treatment Plant from its current 400,000 gpd capacity up to 750,000 gpd. Implementation of the expansion has been placed on hold pending an analysis of the effect of: changes in the make up of the development at Applebrook and the Grace property, a decision on whether to provide sewer service to the remaining homes with OLDS, and confirmation that Willistown still needs additional capacity.

Education Facilities

Public Schools – East Goshen Township is located within the West Chester Area School District, which serves East Goshen Township, West Goshen Township, West Chester Borough, West Whiteland Township, East Bradford Township, Westtown Township, Thornbury Township, and Thornbury Township (Delaware County). Facilities include 10 elementary schools, 3 middle schools, 2 high schools, and the district offices in West Goshen Township.

The School District is planning major renovations to B. Reed Henderson High School, and lesser renovations to East High School and J.R. Fugett Middle School as part of the construction process for the new Bayard B. Rustin High School to be built in Westtown Township. These major projects are needed in the short-term to accommodate the growing student population in the West Chester Region and to address overcrowding particularly at Henderson High School. This addition should allow the District to accommodate for the growing population and provide adequate facilities for students.

Although the Township has little authority in school district matters, district policy changes can significantly influence the daily lives of the Township residents and conversely decisions made by the Township can affect the school district. For this reason, the Township will continue to monitor school district activity and maintain a close working relationship with district officials. This relationship between municipality and school district has been recognized in the recent amendments to the Pennsylvania Municipalities Planning Code, Act 247 that requires mutual review and comment opportunities in certain municipal and school district actions.

Under Act 247, the school district is to be given a copy of a proposed municipal comprehensive plan for review and comment prior to the public hearing. Once a Comprehensive Plan is adopted, any proposed action by the school district involving a public school facility within East Goshen Township must be submitted to the municipal planning commission for its review and comment. Actions subject to review include construction, sale, demolition or lease.

Table F-8: West Chester Area School District Facilities

Type/Name	Year Built	Last Renovated	Functional Capacity	Enrollment 2002-2003
Elementary				
East Bradford Elementary School	1958	1989	626	529
East Goshen Elementary School	1955	1995	666	558
Exton Elementary School	1940	1994	744	732
Fern Hill Elementary School	1955	1989	571	458
Glen Acres Elementary School	1966	1997	571	478
Hillsdale Elementary School	1975	n/a	636	476
Mary C. Howse Elementary School	1962	1997	561	488
Penn Wood Elementary School	1966	1989	636	552
Sarah W. Starkweather Elementary School	1991	1998	791	549
Westtown-Thornbury Elementary School	1954	1989	486	382
Middle School				
J.R. Fugett Middle School	1969	2003	1,057	940
E.N. Peirce Middle School	1963	2002	1,141	1,035
G.A. Stetson Middle School	1959	2002	1,040	858
High School				
B. Reed Henderson High School	1951	2003	1,925/1,350*	1,925
East High School	1972	2003	1,750/1,350*	1,750
Bayard B Rustin High School*	2006	n/a	1,350*	
Total	-		13,201/13,576*	11,575

Source: WCASD Superintendent Office.

*School designated to open in Fall 2006; capacity and enrollment not included in totals. However, with the opening of the new school, each high school will be renovated to include the same types of facilities, thus adjusting the capacity of Henderson and East schools downward to the indicated level from the current amount (as of 2003).

An additional athletic facility has been constructed in East Goshen at the southeast corner of the Ellis Lane-Paoli Pike intersection. This new school facility is intended to upgrade current facilities at the East High School-J.R. Fugett Middle School complex. Of the schools listed in Table F-8, the only school building located in the Township is East Goshen Elementary School, on North Chester Road across from East Boot Road.

Private Schools – There are 2 private schools operating within the Township. The Goshen Friends School, on North Chester Road south of Paoli Pike, provides a Quaker-based parochial educational framework for students in age/class groups from preschool 3 year olds up through 5th grade. The school provides the full services of a public school combined with the religious framework of the Quaker beliefs. This school has been in continuous operation since 1959, but has been part of a Quaker school tradition dating back to the 1700s. A total of 148 students were enrolled at the school in the 2002-2003 school year.

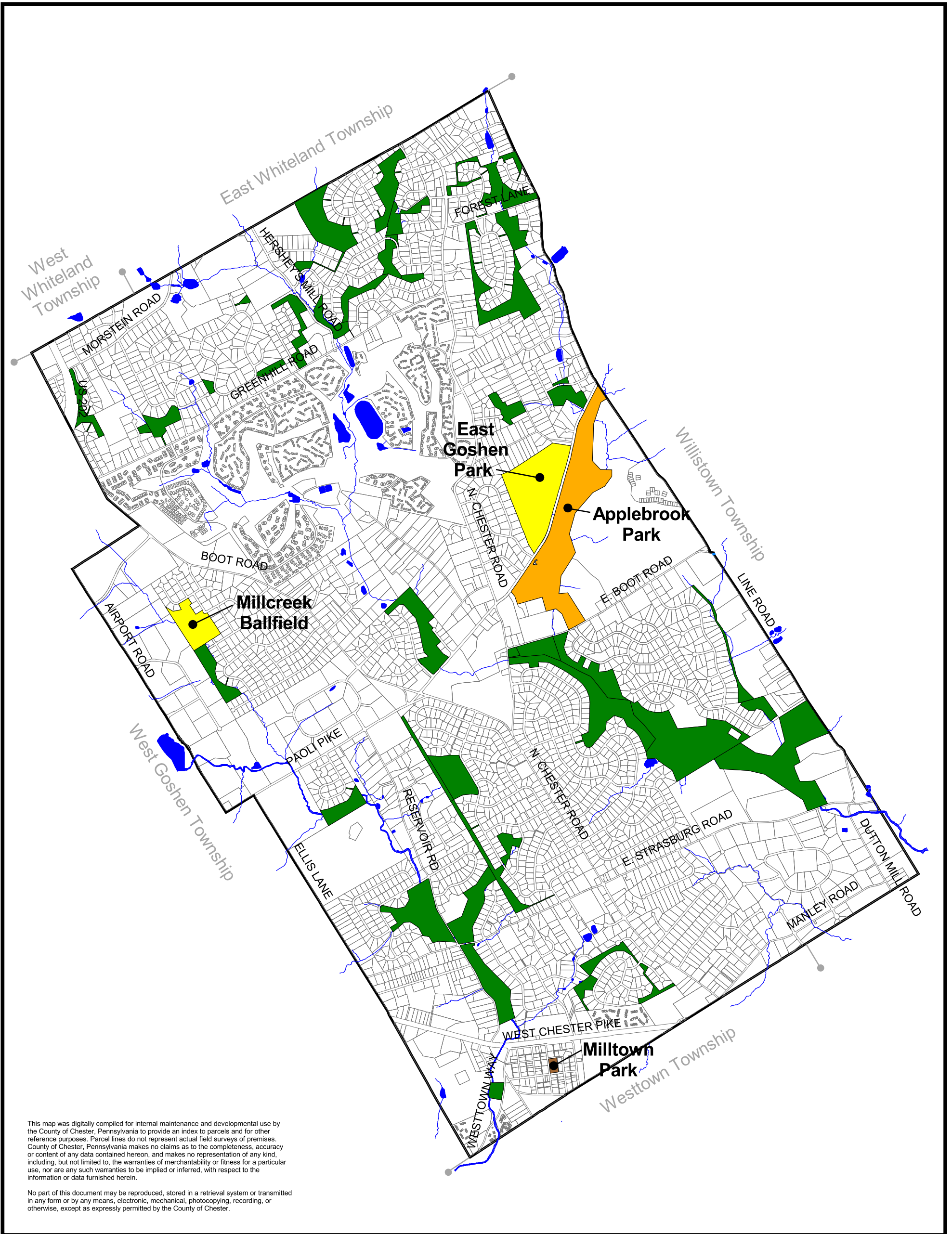
The second school is the Saints Peter and Paul Catholic School on Boot Road across from Wilson Drive. The school opened in phases starting in the 2001-2002 school year, and currently offers parochial

education for students in pre-kindergarten through the 8th grade. A total of 307 students were enrolled at the school in the 2003-2004 school year, though the school has the facilities for up to 542 students.

Library

There are 3 branches or affiliates of the Chester County Library near East Goshen Township, located in West Whiteland Township, West Chester Borough and Malvern Borough. The Township currently provides a representative to the Malvern Library Board. Each of these libraries is provided some County Library funding support and contributions from participating municipalities as well as assistance provided by library fundraisers and foundations.

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This map was digitally compiled for internal maintenance and developmental use by the County of Chester, Pennsylvania to provide an index to parcels and for other reference purposes. Parcel lines do not represent actual field surveys of premises. County of Chester, Pennsylvania makes no claims as to the completeness, accuracy or content of any data contained hereon, and makes no representation of any kind, including, but not limited to, the warranties of merchantability or fitness for a particular use, nor are any such warranties to be implied or inferred, with respect to the information or data furnished herein.




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MAP F-1

East Goshen Township

Comprehensive Plan

June 2005



Data Source: Municipal Border, Parcels - Chester County Bureau of Land Records, 1999; Streams and Ponds - Aerial Data Reduction Associated Inc. provided through sublicense agreement to the County of Chester, 1994; Roadways - Chester County Bureau of Land Records, 2002; Parkland and Open Space East Goshen, East Goshen Township, 2003; Chester County Planning Commission, 2003.

Parkland and Open Space Map

RESOURCE INFORMATION

- Parkland - Active Recreation
- Parkland - Passive Recreation
- Neighborhood Park
- Open Space
- Stream Corridor
- Ponds

BASE INFORMATION

- Municipal Border
- Parcel Lines
- Surrounding Municipal Boundaries