

PRELIMINARY SITE INVESTIGATION & MASTER SITE DEVELOPMENT PLAN

Hanover Lot 7A Development

Location

Hanover Township, Luzerne County, PA

Prepared For

Earth Conservancy



Growing Greener



This project was financed in part by a grant from the Community Conservation Partnerships Program, Environmental Stewardship Fund, under the administration of the Pennsylvania Department of Conservation and Natural Resources, Bureau of Recreation and Conservation."

December 19, 2023

K&W Project No. 2321.001

Prepared by:



DESIGNING ENVIRONMENTS

2201 North Front Street, Suite 200 :: Harrisburg, PA 17110
717.635.2835 :: www.kandwengineers.com

Table of Contents

EXECUTIVE SUMMARY 1

SECTION A: PURPOSE, GOALS, AND OBJECTIVES..... 2

SECTION B: PUBLIC PARTICIPATION..... 3

SECTION C: BACKGROUND INFORMATION 4

SECTION D: SITE INVENTORY AND ANALYSIS..... 6

SECTION E: ACTIVITY AND FACILITY ANALYSIS11

SECTION F: DESIGN CONSIDERATIONS13

SECTION G: DESIGN PROCESS AND RECOMMENDATIONS14

SECTION H: COST ESTIMATE AND PHASED CAPITAL DEVELOPMENT PROGRAM.....17

SECTION I: MAINTENANCE AND OPERATION COSTS; REVENUE 18

SECTION J: SECURITY ANALYSIS19

APPENDICES

APPENDIX A COMMUNITY SURVEY DATA & RESULTS

APPENDIX BLOCATION MAP & CONCEPTUAL SITE PLAN

APPENDIX CFEMA MAP

APPENDIX DZONING MAP

APPENDIX E RECORD DOCUMENTS

APPENDIX F..... UTILITY MAPS

APPENDIX G GEOTECHNICAL REPORT

APPENDIX HSOIL MAPPING

APPENDIX I.....PNDI / PHMC

APPENDIX J..... LOCAL RECREATION INFORMATION

APPENDIX K WETLANDS REPORT

APPENDIX L.....OPINION OF PROBABLE COST

APPENDIX M POSSIBLE FUNDING SOURCES

Executive Summary

Executive Summary

Earth Conservancy (EC) is seeking to develop a park, recreational, and/or athletics facility complex for public use on the existing 'Lot 7A' property located along South Valley Parkway (SR 3046) in Hanover Township, Luzerne County, PA. The site is currently vacant / undeveloped and situated within an existing industrial park. Evaluation of the existing site conditions yielded several factors critical to consider during this evaluation, listed as follows:

- The extent of surface mining areas along with the extent / depths of the landfill refuse materials onsite are significant. Such subsurface materials and conditions generally preclude the construction of buildings or structures unless substantial effort and cost is undertaken to mitigate such impacts. While those conditions are also impactful to purely 'site' improvements (fields, parking areas, walkways, etc), they are less costly to address.
- Large areas of natural resources exist onsite, including a stream, wooded areas, and wetland areas. Such features create opportunities for inclusion into any planning for, and use of, the property, allowing both for preservation and enjoyment of these elements.
- While the existing State Police barracks located just to the west of the property does inherently lead to a certain level of safety and security, it also creates some challenges with vehicular access utilizing the existing drive between the properties (i.e. high-speed departure of emergency vehicles from the barracks property using that road) and presence of Lot 7A users (particularly children) in close proximity to same.

Stakeholder and community engagement consistently pointed towards a need and desire for athletic fields / facilities, as well as some amount of passive recreation. Accordingly, four (4) conceptual visions for the property were developed (refer to Exhibit B) reflecting a range of improvements from low-intensity, predominantly passive recreation (Options C and D) to more densely developed / highly active athletic facilities (Options A and B). Layering these considerations on the foundation of existing conditions noted above, we offer the following recommendations:

- Any proposed indoor athletics facility (Option A) will most certainly require teaming with a 3rd party (likely a private / for-profit entity) to construct, own, and maintain (i.e. costs would likely far exceed possible grant / funding sources available to EC). Similarly, the extensive amount of athletic fields (and associated parking) shown on Option B would require substantive investment in initial capital costs and long-term maintenance. It is likely that either of these options could be difficult to undertake by EC and would require a very specific stakeholder partnership (likely not easily found).
- Conversely, Options C and D offer an equal balance of passive recreation with areas of natural / green space while also addressing the community need for athletic fields. While a teaming partner would still be required, such concept is much more within the capabilities of three specifically engaged and interested stakeholders (Hanover Township, Hanover Area School District, and the Lower South Valley Council of Governments). Accordingly, it is our conclusion that these two visions offer the highest likelihood of success and strongly encourage EC to engage with each / all of the noted stakeholders when advancing the project into the next stage of development (including pursuit of funding).

Section A: Purpose, Goals, and Objectives

The purpose of this study is to evaluate options for development of park, recreation, and/or athletic uses on the Lot 7A property for use by the surrounding community. As part of the evaluation, it will be critical to maintain existing natural resources on the property and engage the community / stakeholders to seek input and feedback regarding the potential uses of the site. Ultimately, a successful outcome would be the development of a plan / proposed improvements which accommodate the interests of community members while also defining clear responsibilities and sources of funding for construction and ongoing annual maintenance / operations.

Section B: Public Participation

In order to properly facilitate a thorough and transparent planning process, EC engaged key community stakeholders representing a variety of interests at the onset of the project to form a Study Committee (12 members – not including EC staff). This Committee met multiple times to discuss the project, possible uses, needs and desires of their respective constituencies, and numerous other topics. The Committee also assisted in disseminating information throughout the community via their members, users, etc and were integral in ultimately arriving at the potential site uses identified herein. In addition to Committee meetings, multiple key stakeholder and related meetings were held throughout the process as summarized below.

- Internal Kickoff Meeting with EC – 8/16/21
- 1st Committee Meeting – 10/29/21
- Internal Sketch Review Meeting with EC – 1/20/22
- Key Stakeholders (Township and School District) Interview – 2/23/22
- 2nd Committee Meeting – 3/1/22
- Key Stakeholder (LSVCOG) Meeting – 3/23/22
- Schedule / Status Update Meeting with EC – 7/21/22
- 3rd Committee Meeting – 8/19/22
- Public Presentation of Plan Concepts – 10/18/22
- Draft Report Review Meeting with EC – 2/2/23

Concurrent with the Committee meetings and engagement, EC commissioned a community survey to seek input from the ‘service area’ likely to utilize any of the proposed uses on the subject property. This survey was housed on the EC website and promoted via public notice and distribution by Committee members. The survey was open / available for access from 11/9/21 – 12/21/21 and 174 responses were received. The raw data and graphic summaries of those responses are provided in Appendix A. As seen in the summary graph in that appendix, a strong consensus (roughly 79% of responses) was formed around several active and one passive recreational uses (number of votes in parentheses), namely:

- Run track / walking paths (50)
- Indoor sports field (19)
- Biking trails (15)
- Playground (14)
- Pool (11)
- Youth football (11)
- Natural areas (9)
- Sports fields (8)

These results strongly coincided with feedback from the Committee members and other stakeholders, with the exception of the pool – this use was removed from consideration after conversation around concerns with construction costs, liability, operation, maintenance, and ownership. Accordingly, the conceptual plans prepared for the project reflect various combinations of those uses (representing a range of improvements which can be phased or eliminated based on the level, types, timing, etc of any funding that may ultimately be secured for the project.

Section C: Background Information

Physical Characteristics of the Site

The existing site is undeveloped, consisting primarily of grassy areas with forested areas along the western property boundary. There are a few natural resources onsite, including a stream, wooded areas, and wetlands areas along the western property boundary (refer to the Existing Conditions plan in Appendix B).

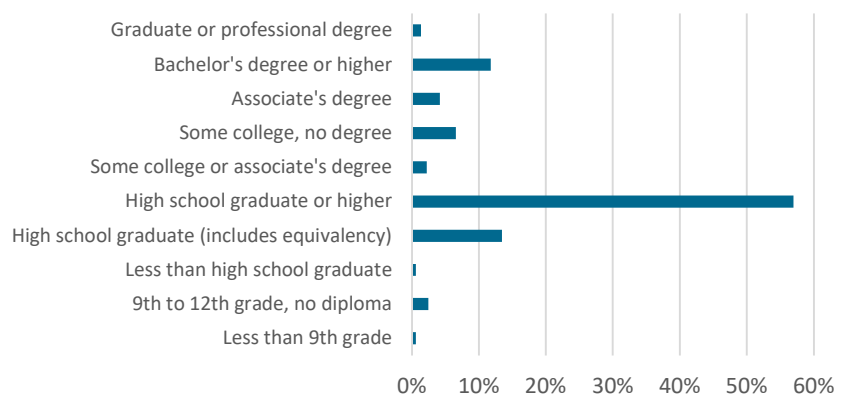
Demographics

The property is located within Hanover Township (Township), Luzerne County (County), PA. The most recent US Census (2021) data documents a population of 11,360 with a median age of 38.9. The population has a ratio of 99.2 males to 100 females and race of the population is summarized in the pie chart on the left below. The average household income of residents in Hanover Township is \$68,748 and educational attainment is summarized in the chart on the right below.

Race per 2021 Census in Hanover Township, Luzerne County, PA



Educational Attainment per 2021 Census in Hanover Township, Luzerne County, PA



Competing Parks / Recreation Facilities

Maps are provided in Appendix J showing an overview of local parks and open spaces located within a 3-mile radius of the project site. The maps reveal that, outside of the local school district fields, there are no other local community spaces that would have similar amenities as those being proposed for the 7A site. A few small pocket parks and basic playground amenities exist in adjacent municipalities but do not have open space areas that could accommodate any youth sport activities.

Relationship to Community / Other Park Systems

The property is located in an undeveloped area but is adjacent to a growing industrial park and within close proximity to the Hanover School District High School. Additionally, the site has ease of access via major road systems. The Trails Network Map provided in Appendix J indicates there are currently no main trails located in close proximity, but there is a possible opportunity to create a cross-connector trail between to larger systems with further research and development.

Section C

While this region of Luzerne County does not currently have a regional park system, the newly formed South Valley Recreation Authority can be a support mechanism for further a comprehensive plan for community recreation development.

Review of Existing Planning Documents

The following planning documents have been reviewed (noting that these have not been updated for over a decade):

Lackawanna and Luzerne County Open Space, Greenways and Outdoor Rec Master Plan of 2004

The Plan's goal is to develop a system of linked recreation resources, providing a variety of outdoor recreation opportunities while protecting and preserving important natural features and environmentally sensitive areas. Specifics related to the Hanover 7A region are not specifically discussed, but this could be a guiding tool for planning.

Lackawanna and Luzerne County Transportation Plan of 2012

This plan includes pieces of the LLCOSGOR Master Plan and additional details on a long-range transportation plan.

Section D: Site Inventory and Analysis

Site Location / Acreage

The prospective project site is a ± 33-acre parcel located along South Valley Parkway (SR3046) and Great Valley Boulevard in the Township. South Cross Valley Expressway is also in close proximity to the site to the south. Refer to Appendix A for Site Location Map and Existing Features Plan. EC is proposing to construct and install outdoor and indoor Recreational Facilities at this site for public use. Public input has been obtained to determine the most desired site features and amenities.

Zoning Ordinance Review / Surrounding Land Use

The site falls within the Highway Commercial (C-2) Zoning District of the Township. Adjacent land uses are Industrial to the north/northeast, Highway Commercial to the west and southeast, and Residential to the south across South Valley Parkway and South Cross Valley Expressway. "Recreational Facilities, Public" is a permitted use by right when the limit of disturbance associated with the project does not exceed 40,000 SF. However, this project is anticipated to generate more than one (1) acre of earth disturbance such that a "Conditional Use" approval will be required. The Municipal review/approval process for Condition Use Applications is as listed below.

- Applicant submits application, plans, and fees to Township Board of Commissioners (BOC);
- BOC sends submittal documents to Township Planning Commission (PC);
- PC submits recommendations to BOC;
- BOC to conduct public hearing within sixty (60) days of application filing;
- BOC renders a decision within 45 days of public hearing.
- Note also that an Environmental Impact Statement (EIS) is required for such application, which shall "disclose the environmental consequences of a proposed action" (refer to Section 705 of the Zoning Ordinance for EIS requirements).

The following summary identified the applicable dimensional and related zoning information:

- **District:** Highway Commercial (C-2)
- **Use:** Recreational Facilities, Public (Conditional Use)
- **Front Setback:** 50 feet
- **Side Setback (One Side):** 10 feet
- **Side Setback (Both Sides):** 20 feet
- **Rear Setback:** 20 feet
- **Min. Lot Width/Frontage:** 100 feet
- **Min. Lot Depth:** 150 feet
- **Minimum Lot Area and Density:** 20,000 sq.ft.
- **Maximum Lot Coverage:** 50%
- **Maximum Height:** 3 stories or 40 feet

Parking Requirements

Parking would be necessary onsite to support the anticipated facilities based on the applicable Township Ordinance requirements outlined below:

- **Parking Dimensions:** 9' x 18' and 162 sq.ft. minimum
- **Parking Aisles (One Way Traffic):**
 - Parallel: Twelve (12) feet
 - 30 degrees: Eleven (11) feet
 - 45 degrees: Thirteen (13) feet
 - 60 degrees: Eighteen (18) feet
 - 90 degrees: Twenty (20) feet
- **Parking Aisles (Two Way Traffic):** Twenty-four (24) feet
- **Parking Setback:** Ten (10) feet to any property line
- **Parking Lot Location:** No less than four hundred (400) feet to any lot line
- **Number of Spaces by Use**
 - **Indoor Recreational Facilities:** One (1) space for every 100 sq.ft. of gross floor area
 - **Outdoor Recreational Facilities**
 - ❖ **With Spectator Seating:** One (1) space for every four (4) seats
 - ❖ **Without Spectator Seating:** One (1) space for every three thousand (3,000) sq.ft. in the recreational site
 - ❖ **With Playground Equipment:** Two (2) additional spaces

Access Driveway Requirements and Circulation / Access

As the site is currently undeveloped, there are no existing access drives and/or internal site circulation. The property is bound by South Valley Parkway / South Main Street (SR 2008) to the south, Great Valley Boulevard to the north, and to the west by a private road which serves the State Police Barracks (this road connects South Main Street to Great Valley Boulevard). Any access entrance along SR 2008 would require a PennDOT Highway Occupancy Permit (HOP). Further, coordination with the State Police will be required for any vehicular access proposed onto their existing driveway as it is used at times by vehicles responding to emergencies (i.e. at a high rate of speed). The Township's driveway requirements are as follows (PennDOT requirements may supersede these).

- **Minimum Width**
 - One Way Traffic: Twelve (12) feet
 - Two Way Traffic: Twenty (20) feet
- **Maximum Width:** Thirty (30) feet

Supplemental Regulations for Recreational Facilities

- No Outdoor recreation activity shall be conducted closer than one hundred (100) feet to any property line
- A buffer area, at least fifty (50) feet in depth and planted with trees, shrubs, or other landscaping, shall surround the property except for access drives
- Unless superseded by a PennDOT or County HOP, access drives shall not be greater than twenty-five (25) feet in width and parking areas shall not be located within buffer areas
- Storm drainage from the site shall be channeled to natural drainage courses and away from adjoining properties

Deed Restrictions, Easements, and Rights of Ways

A 50' wide access easement borders the property on the west for the roadway connecting Great Valley Boulevard to the roundabout at South Valley Parkway. Parking on this access is prohibited so as to not restrict emergency response by the state police.

Utilities

The following utilities appear to be available to the site and mapping is provided in Appendix F.

- **Water:** Pennsylvania American Water, a public water supplier, provided mapping indicating that a 16" ductile iron water service main is located along Great Valley Boulevard.
- **Sanitary Sewer:** Based on a plan by Borton Lawson Engineering dated January 6, 2004, it appears that there is an 8" public sanitary sewer main in Great Valley Boulevard. It appears that sanitary sewer would be provided by Wyoming Valley Sanitary Authority.
- **Natural Gas:** UGI, Penn Natural Gas, Inc. provided mapping indicating that a 6" natural gas main is located within Great Valley Boulevard.

Environmental Issues & Geotechnical Considerations

As the site was previously used for surface mining and as a landfill, the most predominant features to consider for development planning are the extent of surface mining areas and the extent and depths of the landfill refuse materials onsite. This information is outlined in the Preliminary Geotechnical Engineering Report (Report), dated January 2, 2007, prepared by Midlantic Engineering, Inc. (MEI).

It is MEI's conclusion that the mine subsidence potential (i.e. roof collapse and pothole development) for the areas referenced in the Report as No. 4 Vein and No. 5 Vein, are considered to be "negligible" or "slight", respectively. MEI did provide preliminary recommendations for "siting and subgrade preparations" within their report.

In addition to the mining areas, the site was also used as a landfill and is underlain by varying amounts and different types of Fill layers. Of biggest concern was the Fill Refuse layer, referenced as "Stratum G". Stratum G included construction debris, wood, brick, metal, insulation, fabric, etc." The layer extended to depths ranging from 17 feet to 66 feet below existing site grades.

Some of MEI's conclusions are as follows:

- Constructing buildings within or across the previous strip mining is not considered optimal due to the variable depth of the underlying refuse Fill (Stratum G).
- Other areas not containing strip mining may contain buildings; however, extensive site work remediation, relocation of existing Stratum G Fill, or deep foundation systems.
- Due to post construction settlements, Stratum G Fill is not considered suitable for direct support of building foundations or structural slabs-on-grade.
- Stratum G Fill should not be used as structural fill (under future roads or buildings) during development of the site.
- Proposed car parking lots can generally be located throughout the former strip mine and Fill areas; however, the pavements should be planned with geotextile reinforcement and pavement design life of 2/3 to 1/2 of a typical standard design.
- For future building areas within areas that include Stratum G Fill, all proposed building structures would require special consideration of the use of deep foundations (e.g. drilled or

driven piles) or a ground modification method (e.g. stone columns or compaction grouting) for building support.

- Please note the following regarding the deep foundation alternative and ground modification system:
 - Due to the high percentage of wood and deleterious material within Stratum G Fill, continued decomposition and consolidation could affect long-term serviceability; therefore, a ground modification program should be discussed in detail with the geotechnical engineer of record.
 - A pile system would also be required for sidewalks and entryways immediately adjacent to any building.
 - Ground modification can also be used at more critical roadway areas for support of subbase material.

In summary, the previous mining activities and landfill activities will have a direct impact on proposed development construction schemes, costs, and long-term serviceability of the site. Additional, in-depth information from the MEI Report is provided in Appendix G.

Topography & Hydrology

The site is generally sloped from southwest to northeast, toward an Unnamed Tributary (UNT) to Warrior Creek located just outside the limits of the northeast property boundary. Runoff from the property in the existing conditions appears to reach the UNT via undetained overland flow. The site is located in the Warrior Creek – Susquehanna River watershed with runoff being received by the UNT to Warrior Creek northeast of the property. According to 25 PA Code Chapter 93, the UNT to Warrior Creek is designated as a Warm Water Fishery (WWF) with Migratory Fish (MF). The UNT to Warrior Creek is not listed as a High Quality, Exceptional Value, or Special Protection stream.

Since the project site has a very gradual slope, minimal excavation / grading efforts will be required to achieve the elevations necessary to accommodate the proposed improvements.

Vegetation

The existing site appears to be relatively well vegetated and consists primarily of meadow grasses. There is a forested area along the western property boundary, which is likely riparian area associated with the UNT to Warrior Creek. In the conceptual plan, open space areas and athletic fields outside of paved areas would be maintained with vegetation (i.e. mowed grass), and forested areas will be preserved as much as possible.

Soil Types

According to information obtained from the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey, the following soil types are located within or near the project site:

- OIB – Oquaga and Lordstown channery silt loams, 3 to 8 percent slopes
- OIC – Oquaga and Lordstown channery silt loams, 8 to 15 percent slopes
- OID – Oquaga and Lordstown channery silt loams, 15 to 25 percent slopes
- OxF – Oquaga and Lordstown extremely stony silt loams, steep
- VoB – Volusia channery silt loam, 0 to 8 percent slopes
- WeC – Weikert and Klinesville channery silt loams, 8 to 15 percent slopes

Section D

- Sm – Strip mine
- CF – Cut and fill land

Soil mapping provided by the USDA NRCS is provided in Appendix H. However, a more site-specific description of the soils located onsite can be found in the Geotechnical Report in Appendix G.

Section E: Activity and Facility Analysis

Local Access to Outdoor Recreation Areas

The National Recreation and Park Association (NRPA), The Trust for Public Land (TPL), and Geographic Information Systems (GIS) were utilized to determine local access to outdoor recreation areas. Refer to the map provided in Appendix J of regional parks.

Active Recreation Facilities

The Conceptual Site Plan A offers 3 Collegiate/HS sized soccer natural grass soccer fields. These fields can be utilized by any level of skill set and any competition level. The field can be sectioned off for smaller game play at the youth level for novice players or used for competitive leagues of play for youth or adults. The size of the fields allows for a variety of other sports to be programmed into the space and are titled as multi-use because of their ability to be programmed for different sports or recreational activities. Examples would be flag football, pee-wee pad football, lacrosse, field hockey and other recreational programs (IE field games)

Spectator use of the facility would be accommodated by ample parking adjacent to each field. There are no planned bleachers, but space is supplied on each of the sidelines for spectators to bring their own seating to view the event. Outside of the athletics fields are walking paths which can possibly contain fitness trails along the way and stations can be added for exercise.

Considerations were made for younger children's usage of the space and the creation of an accessible playground will be included in the plan. This play space will be for both 2-5 year and 6-12 year old children.

Future development could include an Indoor Athletic Facility with a variety of athletic fields to accommodate different active programs. The scope of this part of the project is yet to be defined, but is noted to include 2 indoor baseball fields, an indoor track, play courts, restrooms and offices.

Passive Recreation Facilities

This form of recreation includes low intensity outdoor activities enjoyed by the public such as walking, hiking, bicycling, boating and water sports, picnicking, nature education, and bird watching. The Plan purposefully includes over a mile and a half of meandering walking/biking paths around the perimeter of the site. Suggestions for passive recreational stops would include benches, signage indicating wildlife and vegetation areas and installing habitats for birds and bird watchers.

Preservation of Open Space, Natural Areas, and Riparian Buffers

Conceptual Site Plan A, provided in Appendix B, shows the desired layout for the property. The property includes several athletic amenities for residents and visitors to utilize. While providing all of these amenities, an effort has been made to maintain open space and natural areas. Trails are provided as part of the sketch plan which are intended to take visitors through existing wooded areas while preserving wetlands and riparian areas along the nearby stream. Grassy areas outside of athletic fields are also provided as general open space.

Estimated Participation Rates and Usage

Overall participation rates will depend on the entity which takes ownership of the property to program. There will need to be an assessment of seasonal uses of the outdoors spaces and which

Section E

groups of participants will be given priority based on the season of the sports schedules. A youth soccer program could run 3 seasons of leagues. Typical rates of players in youth soccer programs (ages 3-12) could be up to as many as 60 teams and over 750 participants.

The key for participation will not be who can we get to use the fields, but the management of the different user groups seeking to utilize the fields for their specific activities. A tool to use as the programming of the facilities begins can be found on the NRPA website under Park Metrics at <https://www.nrpa.org/publications-research/research-papers/agency-performance-review/>

The typical park and recreation agency offers one park for every 2,277 residents served, with 9.9 acres of parkland per 1,000 residents. But park and recreation agencies are as diverse as the communities that they serve, and what works well for one agency may not be best for your agency. Therefore, you need benchmark data to identify the best practices best to serve your community optimally.

NRPA Park Metrics is the most comprehensive source of data standards and insights for park and recreation agencies. Launched in 2009, these agency performance resources assist park and recreation professionals in the effective management and planning of their operating resources and capital facilities. This suite of tools allows park and recreation agencies to build customized reports that allow for comparisons with peer agencies. Park and recreation professionals can use this benchmark data to gain more funding support, improve operations and better serve their communities.

Section F: Design Considerations

Design Considerations

A total of four (4) concepts were developed for the site, ranging from least impactful (and costly) / mostly passive recreational use (Concept D) to most intensive (most expensive) / highly active recreational uses (Concept A). All of the concepts seek to protect key natural resources and habitats while siting the more intensive development / improvements in previously disturbed parts of site (where historic fill was placed subsequent to Hurricane Agnes in 1972).

1. The existing stream bed / watercourse, woodlands, natural areas, vegetative buffers, and associated steep slopes in the northeast portion of the site have been left undisturbed in all concepts. Further, pedestrian walkways have been provided (all concepts) through and along these areas to encourage enjoyment of those resources by facility users.
2. The less intensive / more passive recreation concepts (C and D) provide for significant natural meadow and grass areas.
3. General locations, shapes, and sizes have been identified for proposed stormwater management (SWM) facilities as will be required for any of the concepts. Such facilities will incorporate Best Management Practices (BMP) in accordance with Township, County Conservation District, and PaDEP requirements.
4. While proposed grading was not developed at this stage, it is understood that detailed design in the future will provide for accessible / ADA compliant facilities and there appear to be no site conditions which would impede incorporation of same. We have also identified an area for an accessible / 'sensory' playground and play area. This playground would incorporate inclusive play equipment and structures designed to engage the five senses, while allowing children of all ages and abilities to interact with each other and their surroundings in a safe, controlled environment. The combination of ADA accessibility and sensory elements in the playground has been shown to enhance motor skills while promoting positive social and emotional cues.
5. Athletic facilities, fields, and park facilities have been conceptually sited utilizing accepted design standards to allow for compliance with applicable park, recreation, and athletic user requirements. ADA accessibility to all facilities and areas of the park is paramount to providing an inclusive, positive experience for all users.

Section G: Design Process and Recommendations

Design Process and Recommendations

As the scope of potential uses / possible improvements to the site came into focus, preliminary site concept plans outlining the location, size, orientation, and interaction of such uses were developed and reviewed with EC / the Committee. Feedback from those discussions was subsequently incorporated into a total of four (4) final concept plans included with this report (see Exhibit B). As the estimated costs and associated O&M requirements for each can vary significantly, all four concepts are included herein and under consideration by EC moving forward. The following is a summary of the elements contained in each concept and associated challenges / opportunities. Note that, as these plans were only developed to a conceptual level, detailed design and securing of required permitting / approvals would be necessary upon selection of the desired option prior to initiation of any construction.

Concept A

- Plan Elements
 - ❖ Three (3) Outdoor Grass Multi-Use Athletic Fields (225' X 360')
 - ❖ ADA / Sensory Playground
 - ❖ 1.6 Mile ADA Outdoor Walking / Fitness Trails
 - ❖ Central Parking Area
 - ❖ Indoor Facility (Two Baseball Infields, 200M Indoor Track, Three Play Courts, Community Rooms, Restrooms, Offices)
- Challenges
 - ❖ Substantial cost (particularly for the indoor athletic facility) with significant operational and maintenance considerations which would likely necessitate inclusion of a financial / facilities management teaming partner. Note that such concept was discussed at length with the Township and School District, who went so far as to form an entity to serve those functions and prepared / submitted a grant application to the County for ARPA funding (such application was unsuccessful and no funds were awarded)
 - ❖ Unsuitable historic fill materials will likely require costly structural design / elements for proposed building and may also drive the need for import of soils material to develop the proposed fields and parking areas
 - ❖ Provision of regular maintenance for natural turf fields (mowing, line striping, goals, etc)
 - ❖ Western driveway access require coordination with the State Police Barracks
- Opportunities
 - ❖ Provision of multiple outdoor fields (badly needed in this community) for a variety of youth and adult sports uses
 - ❖ Potential for collaboration with Township, School District, and higher education institutions in the area for athletic facilities play / practice space (as well as possible healthcare, office, wellness, community room, and related uses within the indoor facility)
 - ❖ Multiple driveway access points for proper vehicular circulation and sufficient parking to support concurrent use of all proposed facilities
 - ❖ Maintenance of existing natural resource area in the north / east portion of the site with introduction of pedestrian pathways to encourage access to and through those areas

Concept B

- Plan Elements
 - ❖ Four Natural Grass Multi-Use Athletic Fields (200' X 360', 180' X 330 (2)', 225' X 360')
 - ❖ One 225' x 360' Synthetic Turf Multi-Use Field
 - ❖ Restroom / Concessions / Storage Building
 - ❖ ADA Accessible Playground
 - ❖ 1.7 Mile ADA Outdoor Walking / Fitness Trail
 - ❖ Dispersed Parking Areas
- Challenges
 - ❖ Unsuitable historic fill materials will likely drive the need for import of soils material to develop the proposed fields and parking areas
 - ❖ Provision of regular maintenance for synthetic (grooming) and natural turf fields (mowing, line striping, goals, etc)
 - ❖ Driveway access along western property frontage will need to be coordinated with the State Police Barracks
- Opportunities
 - ❖ Provision of multiple outdoor fields (badly needed in this community) for a variety of youth and adult sports uses
 - ❖ Potential for collaboration with Township, School District, and higher education institutions in the area for athletic facilities play / practice space
 - ❖ Multiple driveway access points for proper vehicular circulation and sufficient parking to support concurrent use of all proposed facilities
 - ❖ Maintenance of existing natural resource area in the north / east portion of the site with introduction of pedestrian pathways to encourage access to and through those areas

Concept C

- Plan Elements
 - ❖ Two Outdoor Natural Grass Multi-Use Athletic Fields (200' X 360' and 225' X 360')
 - ❖ 1.7 Mile ADA Outdoor Walking / Fitness Trails
 - ❖ ADA Accessible Playground
 - ❖ Two Picnic Pavilions
 - ❖ Amphitheater / Bandshell
 - ❖ Restroom / Concessions / Storage Building
- Challenges
 - ❖ Unsuitable historic fill materials will likely drive the need for import of soils material to develop the proposed fields and parking areas
 - ❖ Provision of regular maintenance for natural turf fields (mowing, line striping, goals, etc)
 - ❖ Driveway access along western property frontage will need to be coordinated with the State Police Barracks
- Opportunities
 - ❖ Provision of multiple outdoor fields (badly needed in this community) for a variety of youth and adult sports uses
 - ❖ Outdoor event opportunities via the proposed amphitheater / bandshell and picnic pavilions
 - ❖ More passive recreational uses likely mean less activity and a need for security considerations (namely lighting)

Section G

- ❖ Multiple driveway access points for proper vehicular circulation and sufficient parking to support concurrent use of all proposed facilities
- ❖ Maintenance of existing natural resource area in the north / east portion of the site with introduction of pedestrian pathways to encourage access to and through those areas

Concept D

- Plan Elements
 - ❖ Large Grass Area for Passive Recreation
 - ❖ Natural Meadow Area
 - ❖ 2 Mile ADA Outdoor Walking / Fitness Trails
 - ❖ ADA Accessible Playground
 - ❖ Three Picnic Pavilions
 - ❖ Amphitheater / Bandshell
 - ❖ Restroom Building
- Challenges
 - ❖ Unsuitable historic fill materials will likely drive the need for import of soils material to develop the proposed fields and parking areas
 - ❖ Driveway access along western property frontage will need to be coordinated with the State Police Barracks
- Opportunities
 - ❖ Outdoor event opportunities via the proposed amphitheater / bandshell and picnic pavilions
 - ❖ Predominantly passive recreational uses likely mean less activity and a need for security considerations (namely lighting)
 - ❖ Multiple driveway access points for proper vehicular circulation and sufficient parking to support concurrent use of all proposed facilities
 - ❖ Maintenance of existing natural resource area in the north / east portion of the site with introduction of pedestrian pathways to encourage access to and through those areas

Section H: Cost Estimate and Phased Capital Development Program

Cost Estimate and Phased Capital Development Program

In order to develop ideas for funding of potential improvements on the 7A site, an Opinion of Probable Costs (OPC) was developed for each of the conceptual site plans (see Appendix L). As the scope of improvements and associated development costs vary widely from Concept A to D, a detailed funding program has not been prepared but the following qualitative notes are offered:

- **Concept A** would most certainly require a financial / facilities management teaming partner (if not the actual project lead) due to the extent and complexity of the proposed elements. Substantial conversation was held with the Township / School District to be the lead for that concept and around the idea of the site as a regional athletics destination (such as Spooky Nook in Lancaster, PA and DE Turf in Frederica, DE). Under any scenario, it is highly likely that some form of governmental subsidy (Tax Increment Financing, RACP Grant, etc) in conjunction with developer match / financing (conventional loan, Township / School District funding sources, etc) would be necessary to secure the required monies for this project.
- **Concept B** could possibly be undertaken solely by EC but seems more likely to be successful via teaming with either / both the Township (for resident park and recreational use along with community sports teams) and School District (predominantly for the synthetic turf field use). Both such entities possess resources in close proximity to the property (the HS campus is +/- 1.7 miles and the Township Maintenance building +/- 2.4 miles away) and the staffing / expertise to maintain the proposed facilities. Construction funding and ongoing maintenance costs could be a combination of grant monies, Township / HASD funds, and facility usage fees.
- **Concept C** presents less capital-intensive improvements which may lean more towards a partnership with the Township for funding, construction, operation, and maintenance. As with Concept B, construction funding and ongoing maintenance costs could be a combination of grant monies, funds as may be available from the Township, and facility usage fees.
- **Concept D** lends itself most to a community park developed and maintained by the Township (or a larger, regional parks partnership group with the staff and resources to provide maintenance and management of the facility). Funding could most likely be a combination of grant monies and funds as may be available from the Township.

Specific grant/funding opportunities which could be applicable to the possible improvements on site include the following (refer to Appendix M for additional information on each)

- Redevelopment Assistance Capital Program (RACP)
- Statewide and Luzerne County Local Share Account (LSA)
- Brownfields Assessment, Revolving Loan Fund, and Cleanup Grants
- Industrial Sites Reuse Program (ISRP)
- Community Conservation Partnerships Program (C2P2)
- Greenways, Trails, and Recreation Program (GTRP)
- Community Projects Funding (CPF)

Section I: Maintenance and Operation Costs; Revenue

Maintenance and Operation Costs; Revenue

Similar to the discussion in Section H above, the scope of improvements and associated Operation and Maintenance (O&M) costs vary widely from Concept A to D such that a detailed program for same has not been prepared. Further analysis including extent of required personnel, facility O&M costs, administration and management, maintenance equipment and ongoing supply needs, etc will be necessary upon selection of a desired option / scope of improvements. Such evaluation will also need to include anticipated revenue sources (facility rental, concessions, Township funds, endowments, donations, fundraising events / campaigns, etc) needed to offset the O&M costs.

Section J: Security Analysis

Introduction

Open recreational spaces such as the type of facility envisioned for the Hanover 7A project present unique security challenges by their very nature. Typically, such spaces are not delimited by a hard perimeter which can be acceptably secured via access control points where individuals ingressing/egressing the site can be monitored and vetted. Moreover, such spaces are often not physically manned by trained law enforcement or security personnel and passive/active electronic surveillance assets are minimal at best. As such, the security expectations of site managers must be reasonable given the dearth of traditional physical security assets which can and will be present to secure the space. That said, there are measures which can be taken to mitigate security risks/vulnerabilities and frustrate adversaries who may wish to cause harm to persons or property. A number of potential low, moderate and higher-cost security measures suitable for open spaces can be reviewed and presented for consideration as the project progresses.

The subject property's location immediately adjacent Pennsylvania State Police (PSP) Troop P Wilkes-Barre headquarters will, at the very least, serve to discourage nefarious behavior at the 7A site (although it should not be expected that PSP will provide any consistent, reliable patrol services).

It is valuable to set some expectations and parameters for the security discussion which will continue to progress as this project moves along. The instant Preliminary Security Assessment (PSA) is intended solely to identify initial, potential vulnerabilities (possible gaps or weaknesses) which could present the opportunity for exploitation, either by persons intending to inflict harm or commit other mischief. As the project progresses into design, vulnerabilities will become clearer and risk assessment(s) can be conducted to more reliably evaluate them to present mitigation options.

Areas of Concern

The six (6) primary areas of concern identified for this site / project are as follows:

1. Parking
2. Law Enforcement/Patrol
3. Signage/Risk Management
4. Human Intelligence/Caretakers
5. Technology
6. Natural Disasters

Stakeholder Engagement

Multiple parties were contacted in order to solicit feedback and gauge primary safety/security concerns, summaries of those contacts are as follows

Mr. Sam Guesto - Hanover Township Manager

In a conversation on 10/18/2023, Mr. Guesto stated his primary concern is effective management of vehicular and pedestrian traffic at the site, particularly during peak-usage events. It was discussed that requiring entities who use the site for large-draw events to address vehicular/pedestrian traffic safety and management plans as part of the process of requesting site use permission would be a

wise practice. Mr. Guesto stated he sees township residents and the Hanover Area School District as the primary end users of the site.

Chief Dave Lewis - Hanover Township Police Department (HTPD)

In a conversation on 10/18/2023, Chief Lewis stated that, while his agency would be the primary response entity for any law enforcement assistance calls, HTPD is not able to commit to providing any patrol activities, stating any persistent security presence at the site would have to be provided by the property owner/manager. Chief Lewis stated his primary concerns from a security perspective are availability of sufficient parking stalls to prevent visitors from parking along site access roads (i.e. Great Valley Blvd. and South Valley Parkway) and management of vehicular / pedestrian traffic, particularly during large-scale events. Chief Lewis noted that, as an open site, persistent security options are limited if the owner/manager does not intend for it to be manned with private security personnel. Options such as robust lighting, passive video surveillance monitoring, placement of emergency call boxes in strategic locations (particularly along the intended walking/biking trails) to provide visitors a ready resource to summon assistance in the event of an emergency and to report suspicious activity, and requiring site users (particularly for events anticipated to attract large crowds) to address security plans (e.g. physical security presence, traffic management) as part of the site use request procedures were discussed and should be considered.

Capt. Patrick Dougherty - PA State Police, Troop P Wilkes-Barre

Messages were left on 10/18/2023 and 10/24/2023 for Capt. Dougherty (no return contact has yet been received). However, based on the project security consultant's training and experience, a long prior working relationship with the Pennsylvania State Police and information gleaned for this PSA, the following issues are suggested as PSP's likely primary concerns surrounding the project:

- Conflicts between project vehicular traffic (including parked vehicles) and PSP traffic, particularly along the easement road which follows the perimeter of the 7A property and the PSP-leased tract. As a main ingress/egress route to its facility, PSP will undoubtedly seek to have deconfliction measures built into the project's design so that vehicular and/or pedestrian traffic to the project site will not hinder free and continuous access of PSP vehicles. Considerations for separating 7A vehicular traffic along the easement from PSP's vehicular traffic are strongly encouraged (installation of a median using vegetation, concrete, decorative or something similar) as well as sufficient directional signage.
- Creation of cover/concealment positions on the project site from which an adversary could potentially conduct surreptitious surveillance of PSP activities and/or launch an attack. Of general concern to law enforcement entities is the creation of potential cover/concealment points, particularly elevated/high-ground positions, in close proximity to their facilities. That concern is raised when such locations are not persistently manned/monitored by security or site management personnel.
- Sufficient lighting and remote video surveillance monitoring capability.

Chief Joseph Temarantz - Hanover Township Fire Department (HTFD)

A message was left on 10/18/2023 for Chief Temarantz requesting a callback (no return contact has yet been received). However, based on the project security consultant's training and experience, a long prior working relationship with EMS and fire services and information gleaned for this PSA, the following issues are suggested as HTFD's likely primary concerns surrounding the project:

- Free and continuous site access for fire and EMS vehicles. Parking in unauthorized areas along the site (easement) access road and the proposed entrance off of Great Valley Boulevard, along with unauthorized parking in designated parking lots, will hinder access by large fire and EMS vehicles. Strict adherence to fire lanes and persistent enforcement of on-site parking regulations will mitigate this concern.
- Availability of charged hydrants or other fire suppression supply lines on-site.

Mr. Nathan Barrett - Superintendent, Hanover Area School District (HASD)

A message was left on 10/18/2023 for Mr. Barrett requesting a callback (no return contact has yet been received). However, contact was made with HASD School Safety & Security Coordinator (Michael McCree) concerning the project (see below).

Mr. Michael McCree – School Safety & Security Coordinator, HASD

In a conversation on 10/18/2023, Mr. McCree stated he is well aware of the project and, to his knowledge, HASD is fully supportive of it. He related no particular concerns from a school safety/security standpoint, adding that he does not foresee 7A impacting HASD day-to-day operations in any significant way. Mr. McCree stated that once the facility is fully built-out, HASD would look forward to utilizing the 7A facility for HASD-sponsored athletic events. In such eventuality, HASD would provide physical security presence at the facility for any HASD sponsored or sanctioned event.

Initial Potential Vulnerabilities

The following are likely potential vulnerabilities which will need to be addressed and continually evaluated as the project progresses:

1. Line-of-sight to PSP Troop P Headquarters
2. Creation of cover/concealment positions
3. Loitering/unintended use
4. Potential interference with PSP operations by site vehicular traffic
5. Challenges in creating reliable, remote video surveillance capability
6. Sufficient illumination during low-light periods
7. Vehicle ingress/egress choke points (South Valley Parkway and Great Valley Blvd.)
8. Vehicular high-speed avenues of approach (HSAA) to pedestrian areas
9. Sufficient on-site parking stalls to discourage unauthorized parking along vehicular ingress/egress routes
10. Parking/traffic/pedestrian management during peak usage periods (load-in/load-out)
11. Lack of persistent, physical, on-site security presence

Section J

Robust directional and property use signage throughout the site will most certainly be beneficial from a security perspective. While signage is a very basic, highly-affordable passive security measure, enforcement of site rules and regulations is also a necessary component.

Engaging frequent site users in some type of community watch/community caretaker campaign can also yield positive results. The potential installation of emergency call boxes at strategic locations throughout the site and signage encouraging users to "see something, say something" by notifying proper authorities of suspicious activity via such boxes merits further discussion. Also, signage may encourage users to anonymously report suspicious activity via call or text to the county emergency communications center, rather than making notification while on-site. It is noted that, while such efforts are valuable and frequently utilized as part of overall site security plans, they should not be viewed as a replacement for other, more traditional security measures.

"Natural disasters" would be addressed as part of the site's overall Emergency Operations Plan (EOP) which cannot be effectively developed until project completion. Emergency relocation and shelter-in-place procedures should be developed once the site is fully built-out (noting, again, that this will be primarily an open site with few opportunities for hard shelter, which in any event would not be sufficient to accommodate the types of crowds the site is likely to host during peak-usage events). As such, EOP options may be rather limited. As the project nears completion, engaging with the Luzerne County Emergency Management Agency to develop an EOP which makes sense given the site's unique features, topography and usage will be a necessary effort.

Conclusion

As this project remains in the, nascent, CONOP phase, it is difficult to make specific safety/security recommendations. However, suffice to say that, at the very least, robust, campus-wide low-light illumination, some sort of remote video surveillance capability and effective traffic/parking management during peak usage periods are basic measures this project will require to mitigate security concerns.

Appendix A
Community Survey
Data & Results

Timestamp	Your Residency Zip Code	Your Age	Gender	If your household has children currently living in it, what are their ages?	Household Income	What Passive Recreational amenities would you most desire to have in your community? [Walking/Jogging]	What Passive Recreational amenities would you most desire to have in your community? [Gardens]	What Passive Recreational amenities would you most desire to have in your community? [Seating/Observing]	What Passive Recreational amenities would you most desire to have in your community? [Open Picnic Areas]	What Passive Recreational amenities would you most desire to have in your community? [Outdoor Festival/Concert Space]
11/20/2021 4:06:14	18706	65-up	Female	No Children Live in This Household	\$100,000-\$150,000	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/20/2021 7:20:36	18706	40-55yrs	Female	No Children Live in This Household	\$150,000-\$200,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Little Desire	Somewhat Desired
11/20/2021 7:32:02	18705	40-55yrs	Female	Young Child - 6-10yrs, Teen/Young Adult - 16-21yrs	Prefer Not to Answer	Extremely Desired	No Preference	Extremely Desired	Extremely Desired	Extremely Desired
11/20/2021 8:29:01	18640	40-55yrs	Male	Teen/Young Adult - 16-21yrs	\$75,000-\$100,000	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire
					Prefer Not to Answer	Would Not Desire	Somewhat Desired	Somewhat Desired	Little Desire	Extremely Desired
11/20/2021 9:22:02	18706	40-55yrs	Female	No Children Live in This Household						
11/20/2021 9:41:19	18702	40-55yrs	Male	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	Little Desire	Somewhat Desired	Little Desire	Somewhat Desired
					\$25,000-\$50,000	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Extremely Desired
11/20/2021 11:24:09	18634	40-55yrs	Female	No Children Live in This Household						
11/20/2021 12:16:35	18706	40-55yrs	Female	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/20/2021 12:51:33	18705	65-up	Female	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/20/2021 15:19:56	18634	40-55yrs	Female	Teen/Young Adult - 16-21yrs	\$75,000-\$100,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/20/2021 20:04:16	18706	40-55yrs	Female	No Children Live in This Household	\$50,000-\$75,000	Extremely Desired	No Preference	No Preference	Little Desire	Somewhat Desired
					\$50,000-\$75,000	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Would Not Desire
11/20/2021 20:16:19	18706	65-up	Female	No Children Live in This Household						
11/20/2021 23:36:19	18706	25-39yrs	Male	Young Child - 6-10yrs, Older Child - 11-15yrs	Above \$200,000	Extremely Desired	Would Not Desire	Somewhat Desired	Would Not Desire	Would Not Desire
					\$50,000-\$75,000	Extremely Desired	Little Desire	Somewhat Desired	Somewhat Desired	Little Desire
11/21/2021 8:45:16	18706	25-39yrs	Female	Toddler - 2-5yrs						
11/21/2021 14:21:35	18706	40-55yrs	Female	Teen/Young Adult - 16-21yrs	Prefer Not to Answer	Would Not Desire	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire
11/21/2021 14:23:17	18706	56-64yrs	Female	No Children Live in This Household	\$75,000-\$100,000	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired
					\$25,000-\$50,000	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/21/2021 14:29:04	18702	40-55yrs	Female	No Children Live in This Household						
11/21/2021 14:35:32	18706-5131	56-64yrs	Male	No Children Live in This Household	Less than \$25,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Little Desire
11/21/2021 14:47:28	18706	65-up	Male	No Children Live in This Household	\$25,000-\$50,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Would Not Desire
11/21/2021 18:04:04	18708	40-55yrs	Male	Older Child - 11-15yrs	\$25,000-\$50,000	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired
11/21/2021 18:21:21	18634	40-55yrs	Male	No Children Live in This Household	\$100,000-\$150,000	Extremely Desired	Somewhat Desired	Little Desire	Extremely Desired	Somewhat Desired
11/21/2021 18:22:38	18634	40-55yrs	Female	No Children Live in This Household	\$50,000-\$75,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired
11/21/2021 18:25:20	18634	40-55yrs	Male	Prefer Not to Answer	\$75,000-\$100,000	Extremely Desired	Somewhat Desired	Little Desire	No Preference	Extremely Desired
					\$150,000-\$200,000	Extremely Desired	No Preference	Extremely Desired	Extremely Desired	Extremely Desired
11/21/2021 22:02:16	18706	25-39yrs	Male	Infant - Under 2yr						

Timestamp	Your Residency Zip Code	Your Age	Gender	If your household has children currently living in it, what are their ages?	Household Income	What Passive Recreational amenities would you most desire to have in your community? [Walking/Jogging]	What Passive Recreational amenities would you most desire to have in your community? [Gardens]	What Passive Recreational amenities would you most desire to have in your community? [Seating/Observing]	What Passive Recreational amenities would you most desire to have in your community? [Open Picnic Areas]	What Passive Recreational amenities would you most desire to have in your community? [Outdoor Festival/Concert Space]
11/22/2021 7:58:18	18706	40-55yrs	Female	Teen/Young Adult - 16-21yrs	\$100,000-\$150,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired
11/22/2021 8:08:26	18706	56-64yrs	Male	No Children Live in This Household	\$50,000-\$75,000	Little Desire	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/22/2021 10:00:47	18634	18-24yrs	Male	No Children Live in This Household	\$150,000-\$200,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
					Prefer Not to Answer	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Somewhat Desired
11/22/2021 10:59:04	18634	25-39yrs	Female	Infant - Under 2yr						
11/22/2021 11:07:34	18634	25-39yrs	Female	Young Child - 6-10yrs	\$75,000-\$100,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/22/2021 11:58:47	18634	40-55yrs	Female	No Children Live in This Household	\$100,000-\$150,000	Extremely Desired	Extremely Desired	Would Not Desire	Would Not Desire	Would Not Desire
11/22/2021 12:08:44	18706	25-39yrs	Female	No Children Live in This Household	\$25,000-\$50,000	Extremely Desired	Somewhat Desired	Extremely Desired	No Preference	No Preference
11/22/2021 13:54:48	18707	40-55yrs	Male	Older Child - 11-15yrs, Teen/Young Adult - 16-21yrs	Above \$200,000	Extremely Desired	Would Not Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired
11/22/2021 14:26:57	18706	25-39yrs	Female	Toddler - 2-5yrs	\$50,000-\$75,000	No Preference	Extremely Desired	Extremely Desired	Extremely Desired	No Preference
11/22/2021 14:45:30	18706	56-64yrs	Female	No Children Live in This Household	\$75,000-\$100,000	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
					Prefer Not to Answer	Somewhat Desired	Little Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired
11/22/2021 14:49:32	18634	65-up	Female	No Children Live in This Household						
11/22/2021 15:57:15	18707	25-39yrs	Female	Toddler - 2-5yrs, Young Child - 6-10yrs, Older Child - 11-15yrs	Above \$200,000	Somewhat Desired	Little Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired
11/22/2021 16:06:03	18634	25-39yrs	Female	No Children Live in This Household	\$75,000-\$100,000	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired
11/22/2021 16:09:07	18707	25-39yrs	Female	Toddler - 2-5yrs, Young Child - 6-10yrs	\$75,000-\$100,000	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired
11/22/2021 18:46:08	18634	25-39yrs	Male	No Children Live in This Household	\$75,000-\$100,000	Extremely Desired	Little Desire	Extremely Desired	Somewhat Desired	Would Not Desire
11/22/2021 19:25:04	18706	56-64yrs	Male	Toddler - 2-5yrs	\$100,000-\$150,000	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired
11/22/2021 19:27:20	18634	40-55yrs	Female	Older Child - 11-15yrs	\$100,000-\$150,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/22/2021 19:42:29	18634	40-55yrs	Female	Older Child - 11-15yrs, Teen/Young Adult - 16-21yrs	Prefer Not to Answer	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired
11/22/2021 20:20:33	18707	25-39yrs	Female	Toddler - 2-5yrs, Young Child - 6-10yrs, Teen/Young Adult - 16-21yrs	\$100,000-\$150,000	Extremely Desired	Would Not Desire	Somewhat Desired	Somewhat Desired	No Preference
11/22/2021 20:22:29	18634	25-39yrs	Female	Young Child - 6-10yrs	\$75,000-\$100,000	Extremely Desired	No Preference	Extremely Desired	Extremely Desired	Would Not Desire
11/22/2021 20:22:51	18706	Prefer Not to Answer	Female	No Children Live in This Household	Prefer Not to Answer	No Preference	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/22/2021 20:31:13	18706	Prefer Not to Answer	Prefer Not to Answer	No Children Live in This Household	Prefer Not to Answer	No Preference	No Preference	No Preference	No Preference	No Preference
11/22/2021 20:38:12	18706	65-up	Female	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	Somewhat Desired	Extremely Desired	Little Desire	Would Not Desire
11/22/2021 20:52:53	18634	56-64yrs	Female	No Children Live in This Household	\$150,000-\$200,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Little Desire	Extremely Desired
11/22/2021 21:02:20	18706	17-under	Female	Young Child - 6-10yrs, Teen/Young Adult - 16-21yrs	Prefer Not to Answer	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired
11/22/2021 21:27:42	18634	40-55yrs	Female	No Children Live in This Household	\$25,000-\$50,000	Somewhat Desired	Little Desire	Somewhat Desired	Somewhat Desired	Extremely Desired
11/22/2021 23:27:39	18634	25-39yrs	Female	Young Child - 6-10yrs, Older Child - 11-15yrs	\$75,000-\$100,000	Extremely Desired	Little Desire	Little Desire	Extremely Desired	Extremely Desired
11/23/2021 1:21:28	18634	25-39yrs	Male	Toddler - 2-5yrs, Young Child - 6-10yrs, Older Child - 11-15yrs	\$25,000-\$50,000	Would Not Desire	Would Not Desire	Extremely Desired	Would Not Desire	Would Not Desire
11/23/2021 5:33:31	18706	65-up	Female	Prefer Not to Answer	\$50,000-\$75,000	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired
11/23/2021 5:42:49	18634	40-55yrs	Female	Teen/Young Adult - 16-21yrs	\$150,000-\$200,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/23/2021 6:15:42	18634	25-39yrs	Female	Infant - Under 2yr, Young Child - 6-10yrs, Teen/Young Adult - 16-21yrs	\$75,000-\$100,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/23/2021 6:29:31	18706	56-64yrs	Female	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	Little Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired

Timestamp	Your Residency Zip Code	Your Age	Gender	If your household has children currently living in it, what are their ages?	Household Income	What Passive Recreational amenities would you most desire to have in your community? [Walking/Jogging]	What Passive Recreational amenities would you most desire to have in your community? [Gardens]	What Passive Recreational amenities would you most desire to have in your community? [Seating/Observing]	What Passive Recreational amenities would you most desire to have in your community? [Open Picnic Areas]	What Passive Recreational amenities would you most desire to have in your community? [Outdoor Festival/Concert Space]
11/23/2021 6:41:21	18706	40-55yrs	Female	Young Child - 6-10yrs, Teen/Young Adult - 16-21yrs	Prefer Not to Answer	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire	Little Desire
11/23/2021 9:50:55	18706	40-55yrs	Female	No Children Live in This Household	\$75,000-\$100,000	Extremely Desired	Extremely Desired	Little Desire	Extremely Desired	Extremely Desired
11/23/2021 20:06:44	18634	25-39yrs	Female	Young Child - 6-10yrs, Older Child - 11-15yrs, Teen/Young Adult - 16-21yrs	\$50,000-\$75,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/23/2021 22:09:45	18706	40-55yrs	Female	Older Child - 11-15yrs, Teen/Young Adult - 16-21yrs	\$75,000-\$100,000	Extremely Desired	Little Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired
11/23/2021 22:10:58	18706	25-39yrs	Female	Young Child - 6-10yrs	\$100,000-\$150,000	Somewhat Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired
11/23/2021 22:11:14	18706	25-39yrs	Female	Young Child - 6-10yrs, Older Child - 11-15yrs	\$25,000-\$50,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/23/2021 22:12:30	18706	25-39yrs	Female	Young Child - 6-10yrs	\$75,000-\$100,000	Somewhat Desired	Little Desire	Little Desire	Extremely Desired	Somewhat Desired
11/23/2021 22:16:02	18706	25-39yrs	Female	Toddler - 2-5yrs, Young Child - 6-10yrs	\$150,000-\$200,000	Somewhat Desired	No Preference	Little Desire	Little Desire	Somewhat Desired
11/23/2021 22:25:34	18706	40-55yrs	Female	Young Child - 6-10yrs, Older Child - 11-15yrs, Teen/Young Adult - 16-21yrs	Prefer Not to Answer	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/23/2021 22:58:19	18706	25-39yrs	Male	Infant - Under 2yr, Young Child - 6-10yrs	\$25,000-\$50,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Little Desire
11/24/2021 0:15:33	18706	40-55yrs	Male	Older Child - 11-15yrs, Teen/Young Adult - 16-21yrs	\$25,000-\$50,000	Somewhat Desired	Would Not Desire	Somewhat Desired	No Preference	No Preference
11/24/2021 0:29:37	18706	25-39yrs	Female	Toddler - 2-5yrs, Young Child - 6-10yrs	\$75,000-\$100,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/24/2021 1:22:01	18706	40-55yrs	Male	No Children Live in This Household	\$50,000-\$75,000	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/24/2021 5:35:10	18651	40-55yrs	Female	No Children Live in This Household	\$25,000-\$50,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/24/2021 5:43:28	18706	40-55yrs	Female	Young Child - 6-10yrs, Older Child - 11-15yrs	\$100,000-\$150,000	Extremely Desired	Little Desire	Somewhat Desired	Somewhat Desired	Little Desire
11/24/2021 6:35:19	18651	25-39yrs	Female	Infant - Under 2yr, Toddler - 2-5yrs	\$50,000-\$75,000	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/24/2021 6:52:40	18634	25-39yrs	Female	Infant - Under 2yr, Toddler - 2-5yrs	\$100,000-\$150,000	Extremely Desired	Somewhat Desired	Little Desire	Extremely Desired	Little Desire
11/24/2021 6:57:04	18706	25-39yrs	Female	Young Child - 6-10yrs, Older Child - 11-15yrs	\$100,000-\$150,000	Extremely Desired	No Preference	No Preference	Somewhat Desired	Extremely Desired
11/24/2021 6:59:51	18634	25-39yrs	Male	Infant - Under 2yr, Toddler - 2-5yrs	\$100,000-\$150,000	Extremely Desired	Would Not Desire	Somewhat Desired	Somewhat Desired	Extremely Desired
11/24/2021 7:07:45	18706	40-55yrs	Female	Young Child - 6-10yrs	\$25,000-\$50,000	Extremely Desired	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired
11/24/2021 8:26:48	18706	40-55yrs	Female	Older Child - 11-15yrs	\$75,000-\$100,000	Somewhat Desired	Little Desire	Little Desire	Somewhat Desired	Extremely Desired
11/24/2021 8:55:35	18706	40-55yrs	Female	Toddler - 2-5yrs, Young Child - 6-10yrs, Older Child - 11-15yrs	\$50,000-\$75,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired

Timestamp	Your Residency Zip Code	Your Age	Gender	If your household has children currently living in it, what are their ages?	Household Income	What Passive Recreational amenities would you most desire to have in your community? [Walking/Jogging]	What Passive Recreational amenities would you most desire to have in your community? [Gardens]	What Passive Recreational amenities would you most desire to have in your community? [Seating/Observing]	What Passive Recreational amenities would you most desire to have in your community? [Open Picnic Areas]	What Passive Recreational amenities would you most desire to have in your community? [Outdoor Festival/Concert Space]
11/24/2021 9:19:43	18706	40-55yrs	Female	No Children Live in This Household	\$25,000-\$50,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Would Not Desire
11/24/2021 9:29:50	18706	40-55yrs	Male	No Children Live in This Household	\$25,000-\$50,000	Extremely Desired	No Preference	Extremely Desired	Extremely Desired	Would Not Desire
11/24/2021 9:38:15	18706	40-55yrs	Male	Older Child - 11-15yrs, Teen/Young Adult - 16-21yrs	\$150,000-\$200,000	Somewhat Desired	Would Not Desire	Would Not Desire	No Preference	Would Not Desire
11/24/2021 10:23:23	18706	25-39yrs	Male	Toddler - 2-5yrs, Older Child - 11-15yrs	\$100,000-\$150,000	Little Desire	No Preference	No Preference	Somewhat Desired	Extremely Desired
11/24/2021 10:31:50	18706	25-39yrs	Female	Infant - Under 2yr	\$75,000-\$100,000	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Somewhat Desired
11/24/2021 10:32:25	18706	25-39yrs	Male	Young Child - 6-10yrs, Older Child - 11-15yrs	\$50,000-\$75,000	Extremely Desired	No Preference	No Preference	Somewhat Desired	Extremely Desired
11/24/2021 13:12:25	18706	40-55yrs	Female	Older Child - 11-15yrs	\$50,000-\$75,000	Extremely Desired	Little Desire	Somewhat Desired	Somewhat Desired	Extremely Desired
11/24/2021 14:19:30	18706	40-55yrs	Female	Older Child - 11-15yrs	\$150,000-\$200,000	Extremely Desired	Little Desire	Would Not Desire	Somewhat Desired	Somewhat Desired
11/24/2021 18:36:32	18702	40-55yrs	Male	Prefer Not to Answer	\$50,000-\$75,000	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	Somewhat Desired
11/24/2021 20:47:26	18706	65-up	Male	No Children Live in This Household	\$75,000-\$100,000	Little Desire	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired
11/24/2021 21:01:10	18706	56-64yrs	Female	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/24/2021 21:17:33	18706	40-55yrs	Female	No Children Live in This Household	\$75,000-\$100,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	No Preference
11/24/2021 22:25:26	18706	18-24yrs	Female	No Children Live in This Household	\$25,000-\$50,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/25/2021 10:03:53	18706	40-55yrs	Female	Older Child - 11-15yrs, Teen/Young Adult - 16-21yrs	\$100,000-\$150,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired
11/25/2021 13:59:45	18706	25-39yrs	Male	Young Child - 6-10yrs, Older Child - 11-15yrs	\$75,000-\$100,000	No Preference	No Preference	No Preference	Somewhat Desired	Somewhat Desired
11/26/2021 4:17:21	18706	25-39yrs	Male	Young Child - 6-10yrs, Older Child - 11-15yrs	\$50,000-\$75,000	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire
11/26/2021 9:21:56	18706	56-64yrs	Female	No Children Live in This Household	\$50,000-\$75,000	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired

Timestamp	Your Residency Zip Code	Your Age	Gender	If your household has children currently living in it, what are their ages?	Household Income	What Passive Recreational amenities would you most desire to have in your community? [Walking/Jogging]	What Passive Recreational amenities would you most desire to have in your community? [Gardens]	What Passive Recreational amenities would you most desire to have in your community? [Seating/Observing]	What Passive Recreational amenities would you most desire to have in your community? [Open Picnic Areas]	What Passive Recreational amenities would you most desire to have in your community? [Outdoor Festival/Concert Space]
11/26/2021 22:40:57	18706	25-39yrs	Female	Toddler - 2-5yrs, Older Child - 11-15yrs	\$25,000-\$50,000	Somewhat Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired
11/27/2021 1:24:25	18706	40-55yrs	Female	Older Child - 11-15yrs, Teen/Young Adult - 16-21yrs	Prefer Not to Answer	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/27/2021 6:17:59	18706	65-up	Female	No Children Live in This Household	\$25,000-\$50,000	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired
11/27/2021 8:09:17	18706	56-64yrs	Female	No Children Live in This Household	\$50,000-\$75,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/27/2021 9:01:48	18706	40-55yrs	Female	Older Child - 11-15yrs, Teen/Young Adult - 16-21yrs	\$100,000-\$150,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired
11/27/2021 9:09:30	18706	25-39yrs	Male	No Children Live in This Household	\$100,000-\$150,000	Extremely Desired	Little Desire	Little Desire	Little Desire	Somewhat Desired
11/27/2021 13:53:00	18634	65-up	Female	No Children Live in This Household	Prefer Not to Answer	Somewhat Desired	Little Desire	Little Desire	Little Desire	Somewhat Desired
11/27/2021 17:51:03	18706	40-55yrs	Male	Older Child - 11-15yrs	\$100,000-\$150,000	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/27/2021 19:16:48	18706	25-39yrs	Male	No Children Live in This Household	\$50,000-\$75,000	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Little Desire
11/27/2021 20:20:02	18706	40-55yrs	Female	No Children Live in This Household	\$50,000-\$75,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/27/2021 21:52:16	18706	40-55yrs	Female	Young Child - 6-10yrs	\$150,000-\$200,000	Extremely Desired	Little Desire	Little Desire	Extremely Desired	Extremely Desired
11/29/2021 12:04:55	18661	25-39yrs	Female	Young Child - 6-10yrs, Older Child - 11-15yrs	\$100,000-\$150,000	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Extremely Desired
11/29/2021 16:17:59	18706	65-up	Male	No Children Live in This Household	\$75,000-\$100,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/29/2021 16:53:15	18706	Prefer Not to A	Male	Toddler - 2-5yrs	Prefer Not to Answer	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired
11/29/2021 18:43:11	18706	25-39yrs	Male	No Children Live in This Household	\$25,000-\$50,000	Somewhat Desired	Would Not Desire	Little Desire	Little Desire	Extremely Desired
11/29/2021 18:46:45	18706	40-55yrs	Female	No Children Live in This Household	Less than \$25,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/29/2021 18:48:16	18706	65-up	Female	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired
11/29/2021 18:50:19	18706	25-39yrs	Female	No Children Live in This Household	Prefer Not to Answer	Somewhat Desired	No Preference	Somewhat Desired	Somewhat Desired	No Preference
11/29/2021 18:52:13	18634	56-64yrs	Male	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	No Preference	Somewhat Desired	Little Desire	No Preference
11/29/2021 19:05:09	18706	18-24yrs	Male	No Children Live in This Household	\$25,000-\$50,000	Little Desire	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/29/2021 19:09:58	18706	65-up	Male	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	Extremely Desired	Extremely Desired	No Preference	No Preference
11/29/2021 19:10:06	18706	65-up	Male	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	Extremely Desired	Extremely Desired	No Preference	No Preference
11/29/2021 19:13:10	18706	40-55yrs	Male	Older Child - 11-15yrs	Prefer Not to Answer	Extremely Desired	Little Desire	Extremely Desired	Extremely Desired	Extremely Desired
11/29/2021 19:24:06	18706	65-up	Female	No Children Live in This Household	\$25,000-\$50,000	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Extremely Desired
11/29/2021 19:25:25	18706	40-55yrs	Prefer Not to	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired
11/29/2021 19:34:36	18706	40-55yrs	Male	Young Child - 6-10yrs, Older Child - 11-15yrs	\$50,000-\$75,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/29/2021 19:51:25	18706	56-64yrs	Male	Teen/Young Adult - 16-21yrs	\$100,000-\$150,000	Extremely Desired	Somewhat Desired	Little Desire	Extremely Desired	Extremely Desired
11/29/2021 20:08:27	18704	56-64yrs	Female	No Children Live in This Household	\$25,000-\$50,000	Somewhat Desired	Little Desire	Extremely Desired	Extremely Desired	Little Desire
11/29/2021 21:17:33	18706	25-39yrs	Female	Infant - Under 2yr	\$50,000-\$75,000	Somewhat Desired	Extremely Desired	Somewhat Desired	Little Desire	Would Not Desire

Timestamp	Your Residency Zip Code	Your Age	Gender	If your household has children currently living in it, what are their ages?	Household Income	What Passive Recreational amenities would you most desire to have in your community? [Walking/Jogging]	What Passive Recreational amenities would you most desire to have in your community? [Gardens]	What Passive Recreational amenities would you most desire to have in your community? [Seating/Observing]	What Passive Recreational amenities would you most desire to have in your community? [Open Picnic Areas]	What Passive Recreational amenities would you most desire to have in your community? [Outdoor Festival/Concert Space]
11/29/2021 21:21:28	18706	25-39yrs	Female	No Children Live in This Household	\$50,000-\$75,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired
11/29/2021 21:23:28	18706	25-39yrs	Male	Infant - Under 2yr	\$50,000-\$75,000	Little Desire	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/29/2021 21:32:03	18706	56-64yrs	Female	No Children Live in This Household	\$50,000-\$75,000	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Would Not Desire
11/29/2021 21:34:29	18706	40-55yrs	Male	Toddler - 2-5yrs	\$100,000-\$150,000	Extremely Desired	No Preference	No Preference	Somewhat Desired	Somewhat Desired
11/29/2021 21:39:00	18706	40-55yrs	Male	Infant - Under 2yr, Toddler - 2-5yrs	\$100,000-\$150,000	Extremely Desired	Little Desire	Somewhat Desired	Extremely Desired	Somewhat Desired
11/29/2021 21:54:07	18705	40-55yrs	Male	No Children Live in This Household	\$75,000-\$100,000	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	Somewhat Desired
11/29/2021 23:12:49	18702	25-39yrs	Female	No Children Live in This Household	\$25,000-\$50,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired
11/29/2021 23:35:33	18706	40-55yrs	Male	Teen/Young Adult - 16-21yrs	\$150,000-\$200,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire
11/30/2021 2:23:23	18706	25-39yrs	Female	Young Child - 6-10yrs, Older Child - 11-15yrs	\$150,000-\$200,000	Somewhat Desired	Little Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired
11/30/2021 8:35:45	18706	25-39yrs	Male	Toddler - 2-5yrs, Young Child - 6-10yrs, Older Child - 11-15yrs	Prefer Not to Answer	Extremely Desired	Little Desire	Little Desire	Extremely Desired	Little Desire
11/30/2021 9:15:48	18706	56-64yrs	Female	No Children Live in This Household	\$100,000-\$150,000	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Little Desire
11/30/2021 9:20:09	18621	18-24yrs	Male	Teen/Young Adult - 16-21yrs	\$150,000-\$200,000	Would Not Desire	Would Not Desire	Would Not Desire	Little Desire	Extremely Desired
11/30/2021 11:08:27	18706	65-up	Male	No Children Live in This Household	\$75,000-\$100,000	No Preference	Somewhat Desired	Somewhat Desired	Somewhat Desired	No Preference
11/30/2021 15:15:08	18706	18-24yrs	Female	Teen/Young Adult - 16-21yrs	\$75,000-\$100,000	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired	Would Not Desire
11/30/2021 15:31:02	18706	25-39yrs	Male	No Children Live in This Household	\$50,000-\$75,000	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Somewhat Desired
11/30/2021 16:07:08	18634	56-64yrs	Female	No Children Live in This Household	\$50,000-\$75,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired
11/30/2021 16:22:58	18706	25-39yrs	Female	Toddler - 2-5yrs, Young Child - 6-10yrs, Older Child - 11-15yrs	Prefer Not to Answer	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Extremely Desired
11/30/2021 21:25:38	18702	65-up	Female	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired
11/30/2021 22:10:37	18702	40-55yrs	Female	Older Child - 11-15yrs	\$100,000-\$150,000	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired
12/1/2021 12:43:35	18634	18-24yrs	Male	Teen/Young Adult - 16-21yrs	\$50,000-\$75,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Would Not Desire
12/2/2021 9:18:22	18706	40-55yrs	Male	Older Child - 11-15yrs	\$100,000-\$150,000	Little Desire	Would Not Desire	Would Not Desire	Would Not Desire	Little Desire
12/3/2021 4:10:57	18706	25-39yrs	Female	Young Child - 6-10yrs	\$25,000-\$50,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
12/3/2021 5:43:13	18706	25-39yrs	Female	No Children Live in This Household	\$25,000-\$50,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
12/3/2021 6:31:11	18707	40-55yrs	Female	Young Child - 6-10yrs, Older Child - 11-15yrs	\$100,000-\$150,000	No Preference	No Preference	No Preference	No Preference	No Preference
12/3/2021 7:51:21	18706	40-55yrs	Female	Older Child - 11-15yrs, Teen/Young Adult - 16-21yrs	\$25,000-\$50,000	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired
12/3/2021 8:11:48	18706	25-39yrs	Female	Infant - Under 2yr, Older Child - 11-15yrs	\$25,000-\$50,000	Extremely Desired	Extremely Desired	No Preference	Extremely Desired	Extremely Desired
12/3/2021 8:24:36	18706	40-55yrs	Female	Young Child - 6-10yrs	Above \$200,000	Extremely Desired	Little Desire	Extremely Desired	Extremely Desired	Extremely Desired
12/3/2021 9:20:28	18706	40-55yrs	Female	Teen/Young Adult - 16-21yrs	\$25,000-\$50,000	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired

Timestamp	Your Residency Zip Code	Your Age	Gender	If your household has children currently living in it, what are their ages?	Household Income	What Passive Recreational amenities would you most desire to have in your community? [Walking/Jogging]	What Passive Recreational amenities would you most desire to have in your community? [Gardens]	What Passive Recreational amenities would you most desire to have in your community? [Seating/Observing]	What Passive Recreational amenities would you most desire to have in your community? [Open Picnic Areas]	What Passive Recreational amenities would you most desire to have in your community? [Outdoor Festival/Concert Space]
12/3/2021 10:57:10	18706	25-39yrs	Female	No Children Live in This Household	\$75,000-\$100,000	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired
12/3/2021 11:37:03	18706	40-55yrs	Male	Young Child - 6-10yrs	\$100,000-\$150,000	Somewhat Desired	No Preference	Somewhat Desired	Extremely Desired	Extremely Desired
12/3/2021 12:01:15	18706	56-64yrs	Female	No Children Live in This Household	\$100,000-\$150,000	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Extremely Desired
12/3/2021 13:40:36	18706	25-39yrs	Female	Young Child - 6-10yrs, Teen/Young Adult - 16-21yrs	\$100,000-\$150,000	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired
12/3/2021 13:48:54	18612	25-39yrs	Male	Toddler - 2-5yrs, Teen/Young Adult - 16-21yrs	\$100,000-\$150,000	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire	Somewhat Desired
12/3/2021 16:09:34	18706	25-39yrs	Male	Young Child - 6-10yrs, Older Child - 11-15yrs	Less than \$25,000	Extremely Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired
12/3/2021 20:52:35	18634	40-55yrs	Male	Young Child - 6-10yrs, Older Child - 11-15yrs, Teen/Young Adult - 16-21yrs	\$100,000-\$150,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
12/3/2021 21:36:37	18706	40-55yrs	Female	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	No Preference	Somewhat Desired	Somewhat Desired	Extremely Desired
12/4/2021 5:59:00	18706	56-64yrs	Female	No Children Live in This Household	\$75,000-\$100,000	Extremely Desired	No Preference	Somewhat Desired	Extremely Desired	Extremely Desired
12/4/2021 7:00:40	18706	25-39yrs	Female	Young Child - 6-10yrs, Teen/Young Adult - 16-21yrs	\$25,000-\$50,000	Somewhat Desired	Extremely Desired	Little Desire	Little Desire	Little Desire
12/4/2021 12:32:44	18706	40-55yrs	Female	Young Child - 6-10yrs, Older Child - 11-15yrs	\$100,000-\$150,000	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
12/4/2021 19:29:05	18704	18-24yrs	Female	No Children Live in This Household	\$75,000-\$100,000	Little Desire	Little Desire	Little Desire	Little Desire	Extremely Desired
12/6/2021 22:30:18	18706	25-39yrs	Female	Toddler - 2-5yrs, Older Child - 11-15yrs	\$75,000-\$100,000	No Preference	Extremely Desired	No Preference	Little Desire	Somewhat Desired
12/9/2021 7:11:52	18706	40-55yrs	Female	Older Child - 11-15yrs	\$75,000-\$100,000	Somewhat Desired	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired
12/13/2021 7:42:49	18706	40-55yrs	Female	Older Child - 11-15yrs	\$25,000-\$50,000	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
12/14/2021 11:22:17	18702	56-64yrs	Male	Teen/Young Adult - 16-21yrs	Prefer Not to Answer	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired
12/14/2021 17:43:20	18617	18-24yrs	Female	Young Child - 6-10yrs, Older Child - 11-15yrs	\$50,000-\$75,000	Extremely Desired	Little Desire	Extremely Desired	Extremely Desired	No Preference
12/15/2021 19:25:59	18634	65-up	Male	No Children Live in This Household	Prefer Not to Answer	Extremely Desired	Would Not Desire	Little Desire	No Preference	Would Not Desire
12/19/2021 19:12:48	18706	40-55yrs	Prefer Not to Answer	Prefer Not to Answer	Prefer Not to Answer	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Would Not Desire
12/22/2021 11:23:02	18634	25-39yrs	Female	No Children Live in This Household	\$25,000-\$50,000	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired
12/31/2021 14:13:53	18634	25-39yrs	Female	No Children Live in This Household	\$50,000-\$75,000	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
1/9/2022 10:08:37	18706	40-55yrs	Male	Teen/Young Adult - 16-21yrs	Prefer Not to Answer	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Somewhat Desired

Timestamp	What Passive Recreational amenities would you most desire to have in your community? [Gazebo/Pavilion]	What Active Recreational amenities would you most desire to have in your community? [Biking Paths]	What Active Recreational amenities would you most desire to have in your community? [Open Grass Fields (non-sport)]	What Active Recreational amenities would you most desire to have in your community? [Pickleball Courts]	What Active Recreational amenities would you most desire to have in your community? [Tennis Courts]	What Active Recreational amenities would you most desire to have in your community? [Disc Golf Course]	What Active Recreational amenities would you most desire to have in your community? [Outdoor Volleyball Courts]	What Active Recreational amenities would you most desire to have in your community? [Skateboard Park]	What Active Recreational amenities would you most desire to have in your community? [Splash Pad / Sprav Park]	What Active Recreational amenities would you most desire to have in your community? [Playground for all]
11/20/2021 4:06:14	Extremely Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Little Desire	Somewhat Desired	Extremely Desired
11/20/2021 7:20:36	Little Desire	Somewhat Desired	Little Desire	No Preference	Little Desire	Somewhat Desired	Little Desire	No Preference	Somewhat Desired	Extremely Desired
11/20/2021 7:32:02	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/20/2021 8:29:01	Little Desire	Extremely Desired	Extremely Desired	Little Desire	Little Desire	Little Desire	No Preference	Would Not Desire	Would Not Desire	Would Not Desire
11/20/2021 9:22:02	Little Desire	Extremely Desired	Little Desire	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire	Would Not Desire	Extremely Desired	Extremely Desired
11/20/2021 9:41:19	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired
11/20/2021 11:24:09	Little Desire	Somewhat Desired	Little Desire	Somewhat Desired	Extremely Desired	Somewhat Desired	Little Desire	Would Not Desire	Would Not Desire	Extremely Desired
11/20/2021 12:16:35	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/20/2021 12:51:33	Extremely Desired	Somewhat Desired	Somewhat Desired	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	Extremely Desired
11/20/2021 15:19:56	Extremely Desired	Extremely Desired	Extremely Desired	Would Not Desire	Would Not Desire	Somewhat Desired	Would Not Desire	Would Not Desire	Extremely Desired	Extremely Desired
11/20/2021 20:04:16	No Preference	Extremely Desired	Extremely Desired	Somewhat Desired	No Preference	Little Desire	No Preference	No Preference	No Preference	No Preference
11/20/2021 20:16:19	Somewhat Desired	Extremely Desired	Somewhat Desired	No Preference	Somewhat Desired	Would Not Desire	Somewhat Desired	Would Not Desire	Somewhat Desired	Somewhat Desired
11/20/2021 23:36:19	Would Not Desire	Extremely Desired	No Preference	No Preference	Somewhat Desired	Somewhat Desired	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire
11/21/2021 8:45:16	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Extremely Desired	Extremely Desired
11/21/2021 14:21:35	Little Desire	Somewhat Desired	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Little Desire	Would Not Desire	Would Not Desire	Would Not Desire
11/21/2021 14:23:17	Somewhat Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired
11/21/2021 14:29:04	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/21/2021 14:35:32	Would Not Desire	Little Desire	Somewhat Desired	Would Not Desire	Would Not Desire	Somewhat Desired	Would Not Desire	Would Not Desire	Little Desire	Somewhat Desired
11/21/2021 14:47:28	Extremely Desired	Extremely Desired	Somewhat Desired	Would Not Desire	Would Not Desire	Would Not Desire	Somewhat Desired	Extremely Desired	Would Not Desire	Extremely Desired
11/21/2021 18:04:04	Somewhat Desired	Extremely Desired	Somewhat Desired	Little Desire	Somewhat Desired	Little Desire	Little Desire	Extremely Desired	Somewhat Desired	Little Desire
11/21/2021 18:21:21	Extremely Desired	No Preference	No Preference	No Preference	No Preference	No Preference	Little Desire	No Preference	No Preference	No Preference
11/21/2021 18:22:38	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired
11/21/2021 18:25:20	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired
11/21/2021 22:02:16	Extremely Desired	Extremely Desired	No Preference	Would Not Desire	Extremely Desired	Would Not Desire	Extremely Desired	Would Not Desire	Would Not Desire	Extremely Desired

[illegible]

Timestamp	What Passive Recreational amenities would you most desire to have in your community? [Gazebo/Pavilion [Gazebo/Pavilion	What Active Recreational amenities would you most desire to have in your community? [Biking Paths]	What Active Recreational amenities would you most desire to have in your community? [Open Grass Fields (non-sport	What Active Recreational amenities would you most desire to have in your community? [Pickleball Courts]	What Active Recreational amenities would you most desire to have in your community? [Tennis Courts]	What Active Recreational amenities would you most desire to have in your community? [Disc Golf Course]	What Active Recreational amenities would you most desire to have in your community? [Outdoor Volleyball Courts]	What Active Recreational amenities would you most desire to have in your community? [Skateboard Park]	What Active Recreational amenities would you most desire to have in your community? [Splash Pad / Sprav Park]	What Active Recreational amenities would you most desire to have in your community? [Playground for all
	Little Desire	Extremely Desired	Little Desire	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/23/2021 6:41:21										
11/23/2021 9:50:55	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Little Desire	Somewhat Desired	Extremely Desired
11/23/2021 20:06:44	Extremely Desired	Little Desire	Extremely Desired	Little Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
	Somewhat Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired
11/23/2021 22:09:45										
11/23/2021 22:10:58	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/23/2021 22:11:14										
11/23/2021 22:12:30	Extremely Desired	Somewhat Desired	Somewhat Desired	No Preference	Little Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/23/2021 22:16:02	Somewhat Desired	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Extremely Desired	Extremely Desired
	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired
11/23/2021 22:25:34										
11/23/2021 22:58:19	Extremely Desired	Somewhat Desired	Little Desire	No Preference	No Preference	No Preference	Little Desire	No Preference	Extremely Desired	Extremely Desired
11/24/2021 0:15:33	Would Not Desire	No Preference	Extremely Desired	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	Somewhat Desired
	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/24/2021 0:29:37										
11/24/2021 1:22:01	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/24/2021 5:35:10	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired
	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/24/2021 5:43:28										
11/24/2021 6:35:19	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
	Somewhat Desired	Somewhat Desired	Extremely Desired	Little Desire	Somewhat Desired	Little Desire	Little Desire	Little Desire	Extremely Desired	Extremely Desired
11/24/2021 6:52:40										
11/24/2021 6:57:04	Somewhat Desired	Extremely Desired	Somewhat Desired	No Preference	Little Desire	Extremely Desired	No Preference	Extremely Desired	No Preference	No Preference
	Somewhat Desired	Somewhat Desired	Extremely Desired	Would Not Desire	Would Not Desire	Extremely Desired	Would Not Desire	Would Not Desire	Extremely Desired	Extremely Desired
11/24/2021 6:59:51										
11/24/2021 7:07:45	Somewhat Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Somewhat Desired	Extremely Desired	Extremely Desired
	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired	Little Desire	Little Desire
11/24/2021 8:26:48										
11/24/2021 8:55:35	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired

Timestamp	What Passive Recreational amenities would you most desire to have in your community? [Gazebo/Pavillion [Gazebo/Pavillion	What Active Recreational amenities would you most desire to have in your community? [Biking Paths]	What Active Recreational amenities would you most desire to have in your community? [Open Grass Fields (non-sport	What Active Recreational amenities would you most desire to have in your community? [Pickleball Courts]	What Active Recreational amenities would you most desire to have in your community? [Tennis Courts]	What Active Recreational amenities would you most desire to have in your community? [Disc Golf Course]	What Active Recreational amenities would you most desire to have in your community? [Outdoor Volleyball Courts]	What Active Recreational amenities would you most desire to have in your community? [Skateboard Park]	What Active Recreational amenities would you most desire to have in your community? [Splash Pad / Sprav Park]	What Active Recreational amenities would you most desire to have in your community? [Playground for all
	Little Desire	Extremely Desired	No Preference	Would Not Desire	Extremely Desired	Would Not Desire	Extremely Desired	Would Not Desire	Extremely Desired	Extremely Desired
11/24/2021 9:19:43										
11/24/2021 9:29:50	Little Desire	Extremely Desired	Extremely Desired	Would Not Desire	Extremely Desired	Would Not Desire	Extremely Desired	Would Not Desire	Extremely Desired	Extremely Desired
11/24/2021 9:38:15	Would Not Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Little Desire	Would Not Desire	Would Not Desire	Little Desire
11/24/2021 10:23:23	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	No Preference	Somewhat Desired
11/24/2021 10:31:50	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	Somewhat Desired	Somewhat Desired	Little Desire	Somewhat Desired	Somewhat Desired	Extremely Desired
11/24/2021 10:32:25	Extremely Desired	Extremely Desired	Extremely Desired	No Preference	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	No Preference	Extremely Desired
11/24/2021 13:12:25	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired
11/24/2021 14:19:30	Extremely Desired	Extremely Desired	Extremely Desired	Would Not Desire	Would Not Desire	Would Not Desire	Somewhat Desired	Would Not Desire	Extremely Desired	Extremely Desired
11/24/2021 18:36:32	Little Desire	Somewhat Desired	Somewhat Desired	No Preference	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired
11/24/2021 20:47:26	No Preference	Somewhat Desired	Extremely Desired	Somewhat Desired	Extremely Desired	No Preference	No Preference	Would Not Desire	No Preference	Little Desire
11/24/2021 21:01:10	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/24/2021 21:17:33	Somewhat Desired	Little Desire	No Preference	No Preference	No Preference	No Preference	No Preference	Little Desire	No Preference	Little Desire
11/24/2021 22:25:26	Extremely Desired	Extremely Desired	Would Not Desire	Little Desire	Little Desire	Little Desire	Extremely Desired	Little Desire	Somewhat Desired	Extremely Desired
11/25/2021 10:03:53	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired
11/25/2021 13:59:45	No Preference	Extremely Desired	No Preference	No Preference	No Preference	Extremely Desired	No Preference	Extremely Desired	No Preference	No Preference
11/26/2021 4:17:21	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire
11/26/2021 9:21:56	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Extremely Desired	Extremely Desired

Timestamp	What Passive Recreational amenities would you most desire to have in your community? [Gazebo/Pavilion [Gazebo/Pavilion	What Active Recreational amenities would you most desire to have in your community? [Biking Paths]	What Active Recreational amenities would you most desire to have in your community? [Open Grass Fields (non-sport	What Active Recreational amenities would you most desire to have in your community? [Pickleball Courts]	What Active Recreational amenities would you most desire to have in your community? [Tennis Courts]	What Active Recreational amenities would you most desire to have in your community? [Disc Golf Course]	What Active Recreational amenities would you most desire to have in your community? [Outdoor Volleyball Courts]	What Active Recreational amenities would you most desire to have in your community? [Skateboard Park]	What Active Recreational amenities would you most desire to have in your community? [Splash Pad / Sprav Park]	What Active Recreational amenities would you most desire to have in your community? [Playground for all
	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/26/2021 22:40:57										
	Extremely Desired	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/27/2021 1:24:25										
11/27/2021 6:17:59	Somewhat Desired	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Somewhat Desired	No Preference	Little Desire	Little Desire
11/27/2021 8:09:17	Extremely Desired	Extremely Desired	Extremely Desired	No Preference	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/27/2021 9:01:48	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Little Desire	Extremely Desired	Extremely Desired
11/27/2021 9:09:30	Extremely Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire
11/27/2021 13:53:00	Somewhat Desired	Somewhat Desired	Little Desire	Somewhat Desired	Little Desire	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire
	Extremely Desired	Extremely Desired	Extremely Desired	Little Desire	Little Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire
11/27/2021 17:51:03										
11/27/2021 19:16:48	Somewhat Desired	Extremely Desired	Little Desire	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired	Extremely Desired	Little Desire	Extremely Desired
11/27/2021 20:20:02	Extremely Desired	Extremely Desired	Extremely Desired	No Preference	No Preference	No Preference	No Preference	No Preference	Extremely Desired	Extremely Desired
	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/27/2021 21:52:16										
11/29/2021 12:04:55	Extremely Desired	Extremely Desired	Would Not Desire	Would Not Desire	Extremely Desired	Extremely Desired	Extremely Desired	Would Not Desire	Would Not Desire	Extremely Desired
11/29/2021 16:17:59	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	Somewhat Desired	Extremely Desired
	Extremely Desired	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	No Preference	Little Desire	Somewhat Desired
11/29/2021 16:53:15										
11/29/2021 18:43:11	Extremely Desired	Extremely Desired	Little Desire	No Preference	No Preference	No Preference	No Preference	No Preference	Little Desire	Little Desire
11/29/2021 18:46:45	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired
11/29/2021 18:48:16	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired
	No Preference	Extremely Desired	No Preference	No Preference	No Preference	Extremely Desired	No Preference	No Preference	No Preference	No Preference
11/29/2021 18:50:19										
11/29/2021 18:52:13	No Preference	Extremely Desired	No Preference	No Preference	No Preference	Little Desire	No Preference	Little Desire	No Preference	No Preference
11/29/2021 19:05:09	Little Desire	Somewhat Desired	Somewhat Desired	No Preference	Little Desire	Extremely Desired	Extremely Desired	Little Desire	Little Desire	No Preference
11/29/2021 19:09:58	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	No Preference	No Preference	No Preference
11/29/2021 19:10:06	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	No Preference	No Preference	No Preference
	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/29/2021 19:13:10										
11/29/2021 19:24:06	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire	Extremely Desired
11/29/2021 19:25:25	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired
11/29/2021 19:34:36										
11/29/2021 19:51:25	No Preference	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire
11/29/2021 20:08:27	Extremely Desired	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Extremely Desired	Extremely Desired
11/29/2021 21:17:33	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired	Extremely Desired

Timestamp	What Passive Recreational amenities would you most desire to have in your community? [Gazebo/Pavilion [Gazebo/Pavilion	What Active Recreational amenities would you most desire to have in your community? [Biking Paths]	What Active Recreational amenities would you most desire to have in your community? [Open Grass Fields (non-sport	What Active Recreational amenities would you most desire to have in your community? [Pickleball Courts]	What Active Recreational amenities would you most desire to have in your community? [Tennis Courts]	What Active Recreational amenities would you most desire to have in your community? [Disc Golf Course]	What Active Recreational amenities would you most desire to have in your community? [Outdoor Volleyball Courts]	What Active Recreational amenities would you most desire to have in your community? [Skateboard Park]	What Active Recreational amenities would you most desire to have in your community? [Splash Pad / Sprav Park]	What Active Recreational amenities would you most desire to have in your community? [Playground for all
11/29/2021 21:21:28	Somewhat Desired	Little Desire	Somewhat Desired	Would Not Desire	Would Not Desire	Extremely Desired	Little Desire	Little Desire	Extremely Desired	Extremely Desired
11/29/2021 21:23:28	Extremely Desired	Somewhat Desired	Extremely Desired	No Preference	No Preference	Somewhat Desired	Would Not Desire	Extremely Desired	Extremely Desired	Extremely Desired
11/29/2021 21:32:03	Would Not Desire	Somewhat Desired	Somewhat Desired	No Preference	No Preference	No Preference	Somewhat Desired	Would Not Desire	Would Not Desire	No Preference
11/29/2021 21:34:29	Little Desire	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired
11/29/2021 21:39:00	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
11/29/2021 21:54:07	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired	Little Desire	Somewhat Desired
11/29/2021 23:12:49	Little Desire	Extremely Desired	Extremely Desired	Little Desire	Little Desire	Somewhat Desired	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired
11/29/2021 23:35:33	Little Desire	Extremely Desired	Somewhat Desired	Little Desire	Somewhat Desired	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired	Extremely Desired
11/30/2021 2:23:23	Somewhat Desired	Somewhat Desired	No Preference	Would Not Desire	Would Not Desire	Would Not Desire	No Preference	Little Desire	Little Desire	Somewhat Desired
11/30/2021 8:35:45	Little Desire	Extremely Desired	Extremely Desired	Would Not Desire	Would Not Desire	No Preference	Would Not Desire	Extremely Desired	Extremely Desired	Extremely Desired
11/30/2021 9:15:48	Extremely Desired	Extremely Desired	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Extremely Desired	Extremely Desired
11/30/2021 9:20:09	Somewhat Desired	Extremely Desired	Extremely Desired	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire
11/30/2021 11:08:27	No Preference	Little Desire	Somewhat Desired	No Preference	No Preference	No Preference	No Preference	Little Desire	Little Desire	Somewhat Desired
11/30/2021 15:15:08	Would Not Desire	Would Not Desire	Somewhat Desired	Would Not Desire	Extremely Desired	Extremely Desired	Extremely Desired	Would Not Desire	Would Not Desire	Somewhat Desired
11/30/2021 15:31:02	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired	Extremely Desired	Somewhat Desired
11/30/2021 16:07:08	Somewhat Desired	Extremely Desired	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired	Little Desire	Extremely Desired
11/30/2021 16:22:58	Extremely Desired	Extremely Desired	Somewhat Desired	Would Not Desire	Would Not Desire	Little Desire	Little Desire	Extremely Desired	Extremely Desired	Extremely Desired
11/30/2021 21:25:38	Little Desire	Somewhat Desired	Little Desire	Somewhat Desired	Somewhat Desired	Would Not Desire	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired
11/30/2021 22:10:37	Somewhat Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired
12/1/2021 12:43:35	Would Not Desire	Extremely Desired	Somewhat Desired	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Extremely Desired	Extremely Desired	Extremely Desired
12/2/2021 9:18:22	Would Not Desire	No Preference	Somewhat Desired	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	No Preference	Extremely Desired	Extremely Desired
12/3/2021 4:10:57	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Extremely Desired	Extremely Desired	Extremely Desired
12/3/2021 5:43:13	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Somewhat Desired	Little Desire	Little Desire	Extremely Desired	Extremely Desired
12/3/2021 6:31:11	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference
12/3/2021 7:51:21	Somewhat Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	No Preference	Little Desire	No Preference	Extremely Desired	Extremely Desired
12/3/2021 8:11:48	Extremely Desired	Extremely Desired	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	Extremely Desired	Extremely Desired
12/3/2021 8:24:36	Would Not Desire	Extremely Desired	Extremely Desired	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Somewhat Desired	Extremely Desired
12/3/2021 9:20:28	Extremely Desired	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired	Extremely Desired

[illegible]

Timestamp	What Active Outdoor Sport amenities would you most desire to have in your community? [Soccer Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Football Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Baseball/Softball Diamonds]	What Active Outdoor Sport amenities would you most desire to have in your community? [Lacrosse Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Field Hockey Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Natural Grass]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Synthetic Turf]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Accessible Parking]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Lighting]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Security Cameras]
11/20/2021 4:06:14	No Preference	Would Not Desire	No Preference	Would Not Desire	Would Not Desire	Extremely Desired	Would Not Desire	5 - high need	3	5 - high need
11/20/2021 7:20:36	Little Desire	Would Not Desire	Little Desire	Little Desire	Little Desire	Little Desire	Would Not Desire	4	4	4
11/20/2021 7:32:02	Extremely Desired	Little Desire	Little Desire	Little Desire	Extremely Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/20/2021 8:29:01	Little Desire	Little Desire	Little Desire	No Preference	No Preference	Somewhat Desired	Would Not Desire	5 - high need	4	4
11/20/2021 9:22:02	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	5 - high need	5 - high need	5 - high need
11/20/2021 9:41:19	Extremely Desired	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire	Somewhat Desired	Extremely Desired	3	4	5 - high need
11/20/2021 11:24:09	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Little Desire	Little Desire	5 - high need	5 - high need	5 - high need
11/20/2021 12:16:35	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/20/2021 12:51:33	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	5 - high need	5 - high need	5 - high need
11/20/2021 15:19:56	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Extremely Desired	Would Not Desire	5 - high need	5 - high need	4
11/20/2021 20:04:16	Little Desire	Little Desire	Somewhat Desired	No Preference	No Preference	Little Desire	No Preference	1 - low need	5 - high need	4
11/20/2021 20:16:19	Extremely Desired	Extremely Desired	Extremely Desired	Little Desire	Extremely Desired	Extremely Desired	Extremely Desired	2	1 - low need	1 - low need
11/20/2021 23:36:19	Would Not Desire	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	1 - low need	5 - high need	5 - high need
11/21/2021 8:45:16	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Would Not Desire	Extremely Desired	4	3	4
11/21/2021 14:21:35	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	5 - high need	5 - high need	5 - high need
11/21/2021 14:23:17	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	5 - high need	3	3
11/21/2021 14:29:04	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	1 - low need	1 - low need	1 - low need
11/21/2021 14:35:32	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Somewhat Desired	Would Not Desire	5 - high need	4	4
11/21/2021 14:47:28	No Preference	No Preference	No Preference	No Preference	No Preference	Extremely Desired	No Preference	4	1 - low need	1 - low need
11/21/2021 18:04:04	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Extremely Desired	Would Not Desire	3	3	5 - high need
11/21/2021 18:21:21	Little Desire	Little Desire	Extremely Desired	Little Desire	Little Desire	Somewhat Desired	Little Desire	2	2	2
11/21/2021 18:22:38	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	4	5 - high need	4
11/21/2021 18:25:20	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	1 - low need	1 - low need	1 - low need
11/21/2021 22:02:16	Would Not Desire	Would Not Desire	Extremely Desired	Would Not Desire	Would Not Desire	Extremely Desired	No Preference	5 - high need	3	3

Timestamp	What Active Outdoor Sport amenities would you most desire to have in your community? [Soccer Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Football Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Baseball/Softball Diamonds]	What Active Outdoor Sport amenities would you most desire to have in your community? [Lacrosse Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Field Hockey Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Natural Grass]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Synthetic Turf]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Accessible Parking]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Lighting]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Security Cameras]
11/22/2021 7:58:18	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	5 - high need	5 - high need	5 - high need
11/22/2021 8:08:26	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Somewhat Desired	Would Not Desire	5 - high need	5 - high need	5 - high need
11/22/2021 10:00:47	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	5 - high need	5 - high need	5 - high need
	Somewhat Desired	Somewhat Desired	Extremely Desired	No Preference	No Preference	No Preference	No Preference	1 - low need	5 - high need	5 - high need
11/22/2021 10:59:04	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	4	3	3
11/22/2021 11:07:34	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	5 - high need	5 - high need	5 - high need
11/22/2021 11:58:47	No Preference	No Preference	No Preference	No Preference	No Preference	Extremely Desired	Would Not Desire	5 - high need	4	4
11/22/2021 12:08:44	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired	Little Desire	Somewhat Desired	2	4	3
11/22/2021 13:54:48	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	1 - low need	5 - high need	5 - high need
11/22/2021 14:26:57	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	5 - high need	5 - high need	5 - high need
11/22/2021 14:45:30	Little Desire	Little Desire	Somewhat Desired	Little Desire	Little Desire	Somewhat Desired	Little Desire	5 - high need	5 - high need	5 - high need
11/22/2021 14:49:32	Extremely Desired	Little Desire	Little Desire	Little Desire	Extremely Desired	Extremely Desired	Extremely Desired	4	4	4
11/22/2021 15:57:15	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	5 - high need	5 - high need	4
11/22/2021 16:06:03	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	5 - high need	5 - high need	4
11/22/2021 16:09:07	Little Desire	Somewhat Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	3	4	5 - high need
11/22/2021 18:46:08	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/22/2021 19:25:04	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	5 - high need	5 - high need	5 - high need
11/22/2021 19:27:20	No Preference	Little Desire	Extremely Desired	Would Not Desire	Would Not Desire	Somewhat Desired	Would Not Desire	4	5 - high need	3
11/22/2021 19:42:29	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	3	5 - high need	5 - high need
11/22/2021 20:20:33	Extremely Desired	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	5 - high need	5 - high need	5 - high need
11/22/2021 20:22:29	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Little Desire	No Preference	No Preference	5 - high need	4	5 - high need
11/22/2021 20:22:51	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	5 - high need	5 - high need	5 - high need
11/22/2021 20:31:13	Somewhat Desired	Little Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Would Not Desire	4	5 - high need	5 - high need
11/22/2021 20:38:12	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	5 - high need	5 - high need	5 - high need
11/22/2021 20:52:53	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	5 - high need	5 - high need	5 - high need
11/22/2021 21:02:20	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	5 - high need	5 - high need	5 - high need
11/22/2021 21:27:42	Extremely Desired	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Little Desire	4	4	4
11/22/2021 23:27:39	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	5 - high need	5 - high need	5 - high need
11/23/2021 1:21:28	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	5 - high need	5 - high need	5 - high need
11/23/2021 5:33:31	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	5 - high need	5 - high need	5 - high need
11/23/2021 5:42:49	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire	Somewhat Desired	Little Desire	2	4	4
11/23/2021 6:15:42	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	4	5 - high need	4
11/23/2021 6:29:31	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	4	5 - high need	4

Timestamp	What Active Outdoor Sport amenities would you most desire to have in your community? [Soccer Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Football Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Baseball/Softball Diamonds]	What Active Outdoor Sport amenities would you most desire to have in your community? [Lacrosse Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Field Hockey Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Natural Grass]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Synthetic Turf]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Accessible Parking]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Lighting]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Security Cameras]
	Somewhat Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Little Desire	Extremely Desired	1 - low need	5 - high need	5 - high need
11/23/2021 6:41:21										
11/23/2021 9:50:55	Somewhat Desired	Extremely Desired	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	5 - high need	5 - high need	5 - high need
11/23/2021 20:06:44	Would Not Desire	Extremely Desired	Somewhat Desired	Little Desire	Extremely Desired	Little Desire	Extremely Desired	5 - high need	5 - high need	5 - high need
	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Extremely Desired	Extremely Desired	2	3	3
11/23/2021 22:09:45										
11/23/2021 22:10:58	Extremely Desired	Extremely Desired	Extremely Desired	Little Desire	Somewhat Desired	Extremely Desired	Extremely Desired	3	3	3
	Little Desire	Extremely Desired	Little Desire	Little Desire	Somewhat Desired	Little Desire	Extremely Desired	5 - high need	5 - high need	5 - high need
11/23/2021 22:11:14										
11/23/2021 22:12:30	Somewhat Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/23/2021 22:16:02	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	4	4	4
11/23/2021 22:25:34	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/23/2021 22:58:19	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/24/2021 0:15:33	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Extremely Desired	Little Desire	5 - high need	5 - high need	1 - low need
	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	5 - high need	5 - high need	4
11/24/2021 0:29:37										
11/24/2021 1:22:01	Little Desire	Extremely Desired	Extremely Desired	Little Desire	Little Desire	Extremely Desired	Little Desire	4	5 - high need	4
11/24/2021 5:35:10	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired	5 - high need	5 - high need	5 - high need
	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/24/2021 5:43:28										
11/24/2021 6:35:19	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	2	1 - low need	1 - low need
11/24/2021 6:52:40	Extremely Desired	Little Desire	Extremely Desired	Little Desire	Little Desire	Extremely Desired	Somewhat Desired	4	2	3
11/24/2021 6:57:04	Extremely Desired	Extremely Desired	No Preference	No Preference	No Preference	Extremely Desired	Extremely Desired	5 - high need	4	3
	Would Not Desire	Would Not Desire	Extremely Desired	Would Not Desire	Would Not Desire	Extremely Desired	Would Not Desire	4	4	4
11/24/2021 6:59:51										
11/24/2021 7:07:45	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire	Extremely Desired	Little Desire	Extremely Desired	5 - high need	4	5 - high need
11/24/2021 8:26:48										
11/24/2021 8:55:35	Somewhat Desired	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	5 - high need	5 - high need	5 - high need

Timestamp	What Active Outdoor Sport amenities would you most desire to have in your community? [Soccer Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Football Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Baseball/Softball Diamonds]	What Active Outdoor Sport amenities would you most desire to have in your community? [Lacrosse Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Field Hockey Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Natural Grass]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Synthetic Turf]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Accessible Parking]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Lighting]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Security Cameras]
	Extremely Desired	Extremely Desired	Extremely Desired	No Preference	Extremely Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/24/2021 9:19:43										
11/24/2021 9:29:50	Extremely Desired	Extremely Desired	Extremely Desired	No Preference	Extremely Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/24/2021 9:38:15	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired	Extremely Desired	3	4	4
11/24/2021 10:23:23	Extremely Desired	No Preference	No Preference	Little Desire	Little Desire	Little Desire	Extremely Desired	3	4	4
11/24/2021 10:31:50	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	5 - high need	5 - high need	5 - high need
11/24/2021 10:32:25	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/24/2021 13:12:25	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	4	5 - high need	4
11/24/2021 14:19:30	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	1 - low need	5 - high need	5 - high need
11/24/2021 18:36:32	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	Somewhat Desired	5 - high need	4	3
11/24/2021 20:47:26	Extremely Desired	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Extremely Desired	Would Not Desire	5 - high need	5 - high need	5 - high need
11/24/2021 21:01:10	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	3	2	3
11/24/2021 21:17:33	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	4	4	4
11/24/2021 22:25:26	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	4	5 - high need	5 - high need
11/25/2021 10:03:53	Somewhat Desired	Somewhat Desired	Somewhat Desired	No Preference	No Preference	Somewhat Desired	Somewhat Desired	1 - low need	5 - high need	5 - high need
11/25/2021 13:59:45	No Preference	No Preference	No Preference	No Preference	No Preference	Extremely Desired	Extremely Desired	2	2	2
11/26/2021 4:17:21	Extremely Desired	Extremely Desired	Would Not Desire	Would Not Desire	Would Not Desire	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/26/2021 9:21:56	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	5 - high need	5 - high need	5 - high need

Timestamp	What Active Outdoor Sport amenities would you most desire to have in your community? [Soccer Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Football Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Baseball/Softball Diamonds]	What Active Outdoor Sport amenities would you most desire to have in your community? [Lacrosse Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Field Hockey Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Natural Grass]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Synthetic Turf]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Accessible Parking]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Lighting]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Security Cameras]
	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Little Desire	5 - high need	5 - high need	5 - high need
11/26/2021 22:40:57										
11/27/2021 1:24:25	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	5 - high need	5 - high need	5 - high need
11/27/2021 6:17:59	Little Desire	Little Desire	Somewhat Desired	Little Desire	Little Desire	Somewhat Desired	Would Not Desire	5 - high need	5 - high need	5 - high need
11/27/2021 8:09:17	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	5 - high need	5 - high need	5 - high need
11/27/2021 9:01:48	Little Desire	Little Desire	Extremely Desired	Little Desire	Little Desire	Extremely Desired	Extremely Desired	4	5 - high need	5 - high need
11/27/2021 9:09:30	Little Desire	Little Desire	Would Not Desire	Little Desire	Would Not Desire	Little Desire	Little Desire	5 - high need	4	4
11/27/2021 13:53:00	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	5 - high need	4	5 - high need
11/27/2021 17:51:03	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	1 - low need	1 - low need	1 - low need
11/27/2021 19:16:48	Little Desire	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Somewhat Desired	Little Desire	5 - high need	5 - high need	5 - high need
11/27/2021 20:20:02	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	5 - high need	5 - high need	5 - high need
11/27/2021 21:52:16	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	3	3	3
11/29/2021 12:04:55	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	1 - low need	1 - low need	1 - low need
11/29/2021 16:17:59	Somewhat Desired	Somewhat Desired	Extremely Desired	No Preference	No Preference	Extremely Desired	Extremely Desired	1 - low need	1 - low need	1 - low need
11/29/2021 16:53:15	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	5 - high need	5 - high need	5 - high need
11/29/2021 18:43:11	Little Desire	Extremely Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Extremely Desired	3	4	3
11/29/2021 18:46:45	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	5 - high need	5 - high need	5 - high need
11/29/2021 18:48:16	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/29/2021 18:50:19	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	3	3	3
11/29/2021 18:52:13	No Preference	No Preference	No Preference	No Preference	No Preference	Little Desire	Would Not Desire	4	3	3
11/29/2021 19:05:09	No Preference	No Preference	Extremely Desired	No Preference	No Preference	No Preference	No Preference	5 - high need	5 - high need	5 - high need
11/29/2021 19:09:58	Would Not Desire	Would Not Desire	Somewhat Desired	Would Not Desire	Would Not Desire	No Preference	Would Not Desire	5 - high need	5 - high need	5 - high need
11/29/2021 19:10:06	Would Not Desire	Would Not Desire	Somewhat Desired	Would Not Desire	Would Not Desire	No Preference	Would Not Desire	5 - high need	5 - high need	5 - high need
11/29/2021 19:13:10	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	1 - low need	1 - low need	1 - low need
11/29/2021 19:24:06	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	5 - high need	5 - high need	5 - high need
11/29/2021 19:25:25	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	5 - high need	5 - high need	5 - high need
11/29/2021 19:34:36	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/29/2021 19:51:25	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	4	5 - high need	3
11/29/2021 20:08:27	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Extremely Desired	Little Desire	4	4	4
11/29/2021 21:17:33	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	5 - high need	5 - high need	5 - high need

Timestamp	What Active Outdoor Sport amenities would you most desire to have in your community? [Soccer Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Football Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Baseball/Softball Diamonds]	What Active Outdoor Sport amenities would you most desire to have in your community? [Lacrosse Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Field Hockey Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Natural Grass]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Synthetic Turf]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Accessible Parking]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Lighting]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Security Cameras]
11/29/2021 21:21:28	Extremely Desired	Little Desire	Extremely Desired	Little Desire	Little Desire	Extremely Desired	Little Desire	4	5 - high need	5 - high need
11/29/2021 21:23:28	Little Desire	Extremely Desired	Extremely Desired	Little Desire	Extremely Desired	Extremely Desired	Somewhat Desired	3	5 - high need	5 - high need
11/29/2021 21:32:03	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	5 - high need	4	4
11/29/2021 21:34:29	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/29/2021 21:39:00	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	3	4	3
11/29/2021 21:54:07	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	5 - high need	4	5 - high need
11/29/2021 23:12:49	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	5 - high need	5 - high need	5 - high need
11/29/2021 23:35:33	Would Not Desire	Would Not Desire	Extremely Desired	Would Not Desire	Would Not Desire	Somewhat Desired	Somewhat Desired	5 - high need	5 - high need	5 - high need
11/30/2021 2:23:23	Extremely Desired	Little Desire	Somewhat Desired	No Preference	No Preference	No Preference	No Preference	5 - high need	4	4
11/30/2021 8:35:45	Extremely Desired	Little Desire	Extremely Desired	No Preference	No Preference	Somewhat Desired	No Preference	5 - high need	5 - high need	5 - high need
11/30/2021 9:15:48	Somewhat Desired	Little Desire	Somewhat Desired	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	5 - high need	5 - high need	5 - high need
11/30/2021 9:20:09	Would Not Desire	Little Desire	Little Desire	Would Not Desire	Would Not Desire	Extremely Desired	Would Not Desire	3	2	5 - high need
11/30/2021 11:08:27	Somewhat Desired	Somewhat Desired	Somewhat Desired	No Preference	No Preference	Somewhat Desired	No Preference	5 - high need	5 - high need	5 - high need
11/30/2021 15:15:08	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	5 - high need	5 - high need	4
11/30/2021 15:31:02	Somewhat Desired	Extremely Desired	Somewhat Desired	Little Desire	Somewhat Desired	Extremely Desired	Little Desire	1 - low need	2	1 - low need
11/30/2021 16:07:08	Somewhat Desired	Would Not Desire	Somewhat Desired	Would Not Desire	Would Not Desire	Somewhat Desired	Would Not Desire	4	4	4
11/30/2021 16:22:58	Little Desire	Little Desire	Extremely Desired	Little Desire	Little Desire	Somewhat Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
11/30/2021 21:25:38	Somewhat Desired	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired	Little Desire	2	2	2
11/30/2021 22:10:37	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	4	5 - high need	5 - high need
12/1/2021 12:43:35	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	5 - high need	5 - high need	5 - high need
12/2/2021 9:18:22	Would Not Desire	Extremely Desired	Would Not Desire	Would Not Desire	No Preference	Would Not Desire	Extremely Desired	1 - low need	1 - low need	3
12/3/2021 4:10:57	Little Desire	Somewhat Desired	Extremely Desired	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired	5 - high need	5 - high need	5 - high need
12/3/2021 5:43:13	Little Desire	Little Desire	Little Desire	Little Desire	Extremely Desired	Somewhat Desired	Extremely Desired	1 - low need	1 - low need	1 - low need
12/3/2021 6:31:11	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	3	5 - high need	5 - high need
12/3/2021 7:51:21	Somewhat Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	5 - high need	5 - high need	5 - high need
12/3/2021 8:11:48	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	2	5 - high need	5 - high need
12/3/2021 8:24:36	Would Not Desire	Would Not Desire	Extremely Desired	No Preference	No Preference	Somewhat Desired	Would Not Desire	4	5 - high need	5 - high need
12/3/2021 9:20:28	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	Little Desire	Little Desire	Little Desire	1 - low need	1 - low need	1 - low need

Timestamp	What Active Outdoor Sport amenities would you most desire to have in your community? [Soccer Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Football Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Baseball/Softball Diamonds]	What Active Outdoor Sport amenities would you most desire to have in your community? [Lacrosse Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Field Hockey Field]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Natural Grass]	What Active Outdoor Sport amenities would you most desire to have in your community? [Sport Field with Synthetic Turf]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Accessible Parking]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Lighting]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Security Cameras]
	Somewhat Desired	Somewhat Desired	Somewhat Desired	Little Desire	Extremely Desired	Little Desire	Little Desire	5 - high need	5 - high need	5 - high need
12/3/2021 10:57:10										
12/3/2021 11:37:03	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Extremely Desired	Extremely Desired	5 - high need	4	4
12/3/2021 12:01:15	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	4	5 - high need	5 - high need
12/3/2021 13:40:36	No Preference	No Preference	No Preference	No Preference	No Preference	Little Desire	No Preference	3	4	4
12/3/2021 13:48:54	Little Desire	Somewhat Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	1 - low need	3	3
12/3/2021 16:09:34	Extremely Desired	Extremely Desired	Extremely Desired	No Preference	Extremely Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
12/3/2021 20:52:35	Extremely Desired	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Extremely Desired	1 - low need	1 - low need	1 - low need
12/3/2021 21:36:37	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	4	5 - high need	5 - high need
12/4/2021 5:59:00	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	No Preference	Extremely Desired	Would Not Desire	5 - high need	3	5 - high need
12/4/2021 7:00:40	Little Desire	Little Desire	Extremely Desired	Little Desire	Little Desire	Somewhat Desired	Somewhat Desired	1 - low need	1 - low need	5 - high need
12/4/2021 12:32:44	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	No Preference	1 - low need	1 - low need	1 - low need
12/4/2021 19:29:05	Little Desire	Extremely Desired	Little Desire	Little Desire	Little Desire	Extremely Desired	Little Desire	5 - high need	5 - high need	5 - high need
12/6/2021 22:30:18	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	2	3	3
12/9/2021 7:11:52	Extremely Desired	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Extremely Desired	4	4	4
12/13/2021 7:42:49	Extremely Desired	Extremely Desired	Extremely Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	Somewhat Desired	5 - high need	5 - high need	5 - high need
12/14/2021 11:22:17	Little Desire	Little Desire	Little Desire	Little Desire	Little Desire	Somewhat Desired	Little Desire	5 - high need	5 - high need	5 - high need
12/14/2021 17:43:20	Extremely Desired	Extremely Desired	Extremely Desired	No Preference	No Preference	No Preference	Would Not Desire	5 - high need	3	3
12/15/2021 19:25:59	Little Desire	Would Not Desire	Little Desire	Little Desire	Little Desire	Little Desire	Would Not Desire	2	1 - low need	3
12/19/2021 19:12:48	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	Would Not Desire	4	4	4
12/22/2021 11:23:02	Extremely Desired	Somewhat Desired	Somewhat Desired	Extremely Desired	Somewhat Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
12/31/2021 14:13:53	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	Extremely Desired	5 - high need	5 - high need	5 - high need
1/9/2022 10:08:37	Little Desire	Little Desire	Little Desire	Somewhat Desired	Little Desire	Little Desire	Little Desire	5 - high need	5 - high need	5 - high need

Timestamp	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Staff Supervision]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Trash/Recycling Receptacles]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Bathroom Facilities]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Wifi Access]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Signage]	Should an Indoor Recreation Complex feasibility study be considered for this space?	Who do you feel should have ownership and financial responsibility for this future park? (Currently the land is owned by the Earth Conservancy)
11/20/2021 4:06:14	5 - high need	5 - high need	5 - high need	1 - low need	5 - high need	Maybe	Public/Private Partnership between a business and local entity
11/20/2021 7:20:36	2	5 - high need	2	3	3	No	Public - Local Municipality
11/20/2021 7:32:02	3	5 - high need	5 - high need	5 - high need	5 - high need	Yes	Unsure
11/20/2021 8:29:01	3	5 - high need	5 - high need	2	4	No	Unsure
11/20/2021 9:22:02	5 - high need	5 - high need	5 - high need	5 - high need	5 - high need	Maybe	Other
11/20/2021 9:41:19	4	3	4	3	3	Maybe	Public/Private Partnership between a business and local entity
11/20/2021 11:24:09	5 - high need	5 - high need	5 - high need	1 - low need	2	Maybe	Public/Private Partnership between a business and local entity
11/20/2021 12:16:35	5 - high need	5 - high need	5 - high need	5 - high need	5 - high need	Yes	Public/Private Partnership between a business and local entity
11/20/2021 12:51:33	5 - high need	5 - high need	5 - high need	5 - high need	5 - high need	Maybe	Unsure
11/20/2021 15:19:56	4	4	2	1 - low need	5 - high need	Yes	Public/Private Partnership between a business and local entity
11/20/2021 20:04:16	1 - low need	2	2	2	2	Maybe	Public - Local Municipality
11/20/2021 20:16:19	1 - low need	1 - low need	2	3	1 - low need	Yes	Local School District
11/20/2021 23:36:19	4	5 - high need	4	1 - low need	1 - low need	No	Unsure
11/21/2021 8:45:16	2	4	5 - high need	2	4	Maybe	Unsure
11/21/2021 14:21:35	5 - high need	5 - high need	5 - high need	1 - low need	1 - low need	No	Unsure
11/21/2021 14:23:17	3	4	4	2	3	Maybe	Unsure
11/21/2021 14:29:04	1 - low need	1 - low need	1 - low need	1 - low need	1 - low need	Yes	Public/Private Partnership between a business and local entity
11/21/2021 14:35:32	3	4	2	1 - low need	5 - high need	Yes	Public - Local Municipality
11/21/2021 14:47:28	1 - low need	1 - low need	1 - low need	1 - low need	1 - low need	Yes	Public/Private Partnership between a business and local entity
11/21/2021 18:04:04	1 - low need	2	4	1 - low need	2	Maybe	Public - Local Municipality
11/21/2021 18:21:21	2	4	4	3	3	Yes	Public/Private Partnership between a business and local entity
11/21/2021 18:22:38	3	4	4	3	4	Maybe	Public/Private Partnership between a business and local entity
11/21/2021 18:25:20	1 - low need	1 - low need	1 - low need	1 - low need	1 - low need	Yes	Public - Local Municipality
11/21/2021 22:02:16	2	5 - high need	5 - high need	3	3	Yes	Public/Private Partnership between a business and local entity

Timestamp	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Staff Supervision]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Trash/Recycling Receptacles]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Bathroom Facilities]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Wifi Access]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Signage]	Should an Indoor Recreation Complex feasibility study be considered for this space?	Who do you feel should have ownership and financial responsibility for this future park? (Currently the land is owned by the Earth Conservancy)
11/22/2021 7:58:18	2	5 - high need	3	2	2	Yes	Unsure
11/22/2021 8:08:26	5 - high need	5 - high need	5 - high need	1 - low need	1 - low need	Maybe	Unsure
11/22/2021 10:00:47	3	4	4	4	5 - high need	No	Public - Local Municipality
11/22/2021 10:59:04	4	5 - high need	5 - high need	5 - high need	5 - high need	Yes	Public/Private Partnership between a business and local entity
11/22/2021 11:07:34	1 - low need	5 - high need	5 - high need	2	3	Yes	Public/Private Partnership between a business and local entity
11/22/2021 11:58:47	5 - high need	5 - high need	5 - high need	1 - low need	5 - high need	No	Unsure
11/22/2021 12:08:44	1 - low need	5 - high need	2	2	4	Maybe	Public/Private Partnership between a business and local entity
11/22/2021 13:54:48	4	3	4	4	4	Yes	Public/Private Partnership between a business and local entity
11/22/2021 14:26:57	5 - high need	5 - high need	5 - high need	1 - low need	3	No	Other
11/22/2021 14:45:30	3	5 - high need	5 - high need	3	4	Yes	Public/Private Partnership between a business and local entity
11/22/2021 14:49:32	5 - high need	5 - high need	5 - high need	3	5 - high need	Yes	Public - Local Municipality
11/22/2021 15:57:15	2	3	3	2	2	Yes	Unsure
11/22/2021 16:06:03	4	5 - high need	4	3	4	Maybe	Public - Local Municipality
11/22/2021 16:09:07	2	5 - high need	5 - high need	1 - low need	2	Maybe	Unsure
11/22/2021 18:46:08	4	4	4	2	4	Maybe	Unsure
11/22/2021 19:25:04	3	5 - high need	5 - high need	1 - low need	5 - high need	Yes	Local School District
11/22/2021 19:27:20	3	3	5 - high need	5 - high need	5 - high need	Yes	Public - Local Municipality
11/22/2021 19:42:29	3	2	5 - high need	1 - low need	2	Maybe	Public/Private Partnership between a business and local entity
11/22/2021 20:20:33	5 - high need	5 - high need	5 - high need	5 - high need	3	Maybe	Unsure
11/22/2021 20:22:29	2	5 - high need	5 - high need	1 - low need	4	Yes	Unsure
11/22/2021 20:22:51	4	4	5 - high need	5 - high need	5 - high need	Maybe	Public - Local Municipality
11/22/2021 20:31:13	5 - high need	5 - high need	5 - high need	5 - high need	5 - high need	Maybe	Public - Local Municipality
11/22/2021 20:38:12	5 - high need	5 - high need	4	2	2	No	Unsure
11/22/2021 20:52:53	3	5 - high need	5 - high need	3	4	Yes	Unsure
11/22/2021 21:02:20	3	5 - high need	5 - high need	1 - low need	1 - low need	Maybe	Unsure
11/22/2021 21:27:42	4	5 - high need	5 - high need	5 - high need	5 - high need	Maybe	Unsure
11/22/2021 23:27:39	3	5 - high need	5 - high need	1 - low need	3	Yes	Public - Local Municipality
11/23/2021 1:21:28	1 - low need	5 - high need	5 - high need	5 - high need	5 - high need	Maybe	Public - Local Municipality
11/23/2021 5:33:31	5 - high need	5 - high need	5 - high need	5 - high need	5 - high need	Maybe	Unsure
11/23/2021 5:42:49	4	5 - high need	5 - high need	5 - high need	4	Yes	Public/Private Partnership between a business and local entity
11/23/2021 6:15:42	2	4	4	2	4	Yes	Unsure
11/23/2021 6:29:31	4	5 - high need	5 - high need	2	5 - high need	No	Public/Private Partnership between a business and local entity

Timestamp	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Staff Supervision]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Trash/Recycling Receptacles]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Bathroom Facilities]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Wifi Access]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Signage]	Should an Indoor Recreation Complex feasibility study be considered for this space?	Who do you feel should have ownership and financial responsibility for this future park? (Currently the land is owned by the Earth Conservancy)
	5 - high need	5 - high need	5 - high need	2	2	Yes	Public/Private Partnership between a business and local entity
11/23/2021 6:41:21							
11/23/2021 9:50:55	3	5 - high need	5 - high need	4	5 - high need	Yes	Public - Local Municipality
11/23/2021 20:06:44	3	5 - high need	5 - high need	2	5 - high need	Yes	Public/Private Partnership between a business and local entity
11/23/2021 22:09:45	2	3	5 - high need	2	4	Yes	Other
11/23/2021 22:10:58	3	3	3	3	3	Yes	Unsure
11/23/2021 22:11:14	5 - high need	5 - high need	5 - high need	4	3	Yes	Unsure
11/23/2021 22:12:30	4	5 - high need	5 - high need	5 - high need	5 - high need	Maybe	Unsure
11/23/2021 22:16:02	3	4	4	2	2	Yes	Public - Local Municipality
11/23/2021 22:25:34	4	5 - high need	5 - high need	1 - low need	1 - low need	Yes	Public/Private Partnership between a business and local entity
11/23/2021 22:58:19	5 - high need	5 - high need	5 - high need	5 - high need	4	Yes	Public - Local Municipality
11/24/2021 0:15:33	1 - low need	3	4	1 - low need	1 - low need	Yes	Other
11/24/2021 0:29:37	3	4	5 - high need	3	4	Yes	Unsure
11/24/2021 1:22:01	3	2	4	1 - low need	3	Yes	Public - Local Municipality
11/24/2021 5:35:10	4	5 - high need	5 - high need	5 - high need	5 - high need	Maybe	Other
11/24/2021 5:43:28	3	5 - high need	5 - high need	1 - low need	3	Yes	Public/Private Partnership between a business and local entity
11/24/2021 6:35:19	1 - low need	1 - low need	1 - low need	2	1 - low need	Yes	Public/Private Partnership between a business and local entity
11/24/2021 6:52:40	1 - low need	4	4	1 - low need	2	Yes	Public - Local Municipality
11/24/2021 6:57:04	1 - low need	5 - high need	5 - high need	3	5 - high need	Yes	Public - Local Municipality
11/24/2021 6:59:51	1 - low need	4	5 - high need	1 - low need	1 - low need	No	Public - Local Municipality
11/24/2021 7:07:45	3	5 - high need	5 - high need	3	3	Maybe	Public/Private Partnership between a business and local entity
11/24/2021 8:26:48	5 - high need	2	5 - high need	1 - low need	4	Yes	Local School District
11/24/2021 8:55:35	5 - high need	5 - high need	5 - high need	5 - high need	5 - high need	Yes	Public/Private Partnership between a business and local entity

Timestamp	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Staff Supervision]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Trash/Recycling Receptacles]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Bathroom Facilities]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Wifi Access]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Signage]	Should an Indoor Recreation Complex feasibility study be considered for this space?	Who do you feel should have ownership and financial responsibility for this future park? (Currently the land is owned by the Earth Conservancy)
	5 - high need	5 - high need	5 - high need	1 - low need	5 - high need	Yes	Local School District
11/24/2021 9:19:43							
11/24/2021 9:29:50	5 - high need	5 - high need	5 - high need	3	5 - high need	Yes	Local School District
11/24/2021 9:38:15	2	4	5 - high need	3	3	Yes	Public - Local Municipality
11/24/2021 10:23:23	2	5 - high need	5 - high need	4	4	Yes	Public - Local Municipality
11/24/2021 10:31:50	3	5 - high need	5 - high need	1 - low need	3	Yes	Public - Local Municipality
11/24/2021 10:32:25	5 - high need	5 - high need	5 - high need	3	5 - high need	Yes	Local School District
11/24/2021 13:12:25	3	3	4	2	3	Yes	Public - Local Municipality
11/24/2021 14:19:30	5 - high need	5 - high need	5 - high need	1 - low need	3	Yes	Public - Local Municipality
11/24/2021 18:36:32	4	4	4	2	4	Maybe	Unsure
11/24/2021 20:47:26	4	4	4	2	2	Yes	Unsure
11/24/2021 21:01:10	1 - low need	3	3	2	3	Yes	Public - Local Municipality
11/24/2021 21:17:33	1 - low need	4	4	1 - low need	2	Yes	Public/Private Partnership between a business and local entity
11/24/2021 22:25:26	5 - high need	5 - high need	5 - high need	1 - low need	5 - high need	Yes	Public/Private Partnership between a business and local entity
11/25/2021 10:03:53	3	4	4	4	4	Yes	Public - Local Municipality
11/25/2021 13:59:45	2	2	2	1 - low need	2	Yes	Public - Local Municipality
11/26/2021 4:17:21	5 - high need	5 - high need	5 - high need	1 - low need	1 - low need	Yes	Local School District
11/26/2021 9:21:56	4	4	4	3	3	Yes	Unsure

Timestamp	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Staff Supervision]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Trash/Recycling Receptacles]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Bathroom Facilities]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Wifi Access]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Signage]	Should an Indoor Recreation Complex feasibility study be considered for this space?	Who do you feel should have ownership and financial responsibility for this future park? (Currently the land is owned by the Earth Conservancy)
	5 - high need	5 - high need	5 - high need	5 - high need	5 - high need	Maybe	Unsure
11/26/2021 22:40:57							
	5 - high need	5 - high need	5 - high need	5 - high need	4	Maybe	Public/Private Partnership between a business and local entity
11/27/2021 1:24:25							
11/27/2021 6:17:59	4	5 - high need	5 - high need	5 - high need	5 - high need	Maybe	Public/Private Partnership between a business and local entity
11/27/2021 8:09:17	5 - high need	5 - high need	5 - high need	5 - high need	5 - high need	Yes	Public - Local Municipality
	5 - high need	5 - high need	5 - high need	3	3	Yes	Public/Private Partnership between a business and local entity
11/27/2021 9:01:48							
11/27/2021 9:09:30	2	5 - high need	4	4	5 - high need	Maybe	Unsure
11/27/2021 13:53:00	4	4	5 - high need	4	4	Maybe	Unsure
	1 - low need	1 - low need	1 - low need	1 - low need	1 - low need	Yes	Public/Private Partnership between a business and local entity
11/27/2021 17:51:03							
11/27/2021 19:16:48	3	5 - high need	5 - high need	3	4	Maybe	Public - Local Municipality
11/27/2021 20:20:02	5 - high need	5 - high need	5 - high need	4	5 - high need	Yes	Public/Private Partnership between a business and local entity
11/27/2021 21:52:16	3	3	3	1 - low need	2	Yes	Public - Local Municipality
	1 - low need	1 - low need	1 - low need	1 - low need	1 - low need	Yes	Public/Private Partnership between a business and local entity
11/29/2021 12:04:55							
11/29/2021 16:17:59	2	1 - low need	1 - low need	1 - low need	1 - low need	Maybe	Public - Local Municipality
11/29/2021 16:53:15	5 - high need	5 - high need	5 - high need	5 - high need	5 - high need	Yes	Public/Private Partnership between a business and local entity
11/29/2021 18:43:11	3	3	4	2	3	Yes	Unsure
11/29/2021 18:46:45	3	5 - high need	5 - high need	5 - high need	5 - high need	No	Unsure
11/29/2021 18:48:16	4	5 - high need	5 - high need	5 - high need	5 - high need	No	Public/Private Partnership between a business and local entity
11/29/2021 18:50:19	2	5 - high need	5 - high need	1 - low need	1 - low need	Maybe	Public - Local Municipality
11/29/2021 18:52:13	2	4	5 - high need	1 - low need	4	Maybe	Public - Local Municipality
11/29/2021 19:05:09	3	5 - high need	5 - high need	4	5 - high need	Maybe	Public - Local Municipality
11/29/2021 19:09:58	2	5 - high need	3	2	3	No	Public/Private Partnership between a business and local entity
11/29/2021 19:10:06	2	5 - high need	3	2	3	No	Public/Private Partnership between a business and local entity
11/29/2021 19:13:10	1 - low need	1 - low need	1 - low need	1 - low need	1 - low need	Yes	Public - Local Municipality
	5 - high need	4	5 - high need	5 - high need	5 - high need	Yes	Unsure
11/29/2021 19:24:06							
11/29/2021 19:25:25	5 - high need	5 - high need	5 - high need	1 - low need	2	Maybe	Public/Private Partnership between a business and local entity
	5 - high need	5 - high need	5 - high need	5 - high need	5 - high need	Yes	Public/Private Partnership between a business and local entity
11/29/2021 19:34:36							
11/29/2021 19:51:25	1 - low need	4	4	1 - low need	1 - low need	Yes	Public - Local Municipality
11/29/2021 20:08:27	3	4	4	4	4	Yes	Unsure
11/29/2021 21:17:33	4	5 - high need	4	4	4	Maybe	Public/Private Partnership between a business and local entity

Timestamp	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Staff Supervision]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Trash/Recycling Receptacles]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Bathroom Facilities]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Wifi Access]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Signage]	Should an Indoor Recreation Complex feasibility study be considered for this space?	Who do you feel should have ownership and financial responsibility for this future park? (Currently the land is owned by the Earth Conservancy)
11/29/2021 21:21:28	3	5 - high need	4	3	5 - high need	Yes	Public/Private Partnership between a business and local entity
11/29/2021 21:23:28	5 - high need	5 - high need	5 - high need	5 - high need	3	Yes	Other
11/29/2021 21:32:03	1 - low need	4	5 - high need	1 - low need	2	No	Unsure
11/29/2021 21:34:29	5 - high need	5 - high need	5 - high need	5 - high need	5 - high need	Yes	Local School District
11/29/2021 21:39:00	3	4	4	2	3	Yes	Public/Private Partnership between a business and local entity
11/29/2021 21:54:07	2	5 - high need	5 - high need	3	3	Maybe	Public/Private Partnership between a business and local entity
11/29/2021 23:12:49	3	4	4	3	3	Yes	Public/Private Partnership between a business and local entity
11/29/2021 23:35:33	5 - high need	5 - high need	5 - high need	2	2	Yes	Public/Private Partnership between a business and local entity
11/30/2021 2:23:23	2	5 - high need	3	1 - low need	3	Yes	Unsure
11/30/2021 8:35:45	1 - low need	5 - high need	5 - high need	2	2	No	Public/Private Partnership between a business and local entity
11/30/2021 9:15:48	2	1 - low need	5 - high need	3	5 - high need	Yes	Unsure
11/30/2021 9:20:09	1 - low need	2	3	1 - low need	2	Maybe	Unsure
11/30/2021 11:08:27	3	5 - high need	5 - high need	5 - high need	5 - high need	No	Unsure
11/30/2021 15:15:08	5 - high need	5 - high need	3	1 - low need	3	No	Public - Local Municipality
11/30/2021 15:31:02	1 - low need	3	3	1 - low need	1 - low need	Yes	Public - Local Municipality
11/30/2021 16:07:08	3	4	4	2	4	No	Unsure
11/30/2021 16:22:58	1 - low need	5 - high need	5 - high need	1 - low need	1 - low need	Yes	Public/Private Partnership between a business and local entity
11/30/2021 21:25:38	3	5 - high need	4	1 - low need	1 - low need	No	Public - Local Municipality
11/30/2021 22:10:37	5 - high need	5 - high need	5 - high need	3	3	Yes	Unsure
12/1/2021 12:43:35	5 - high need	5 - high need	5 - high need	1 - low need	5 - high need	Yes	Public - Local Municipality
12/2/2021 9:18:22	3	1 - low need	1 - low need	5 - high need	4	Yes	Other
12/3/2021 4:10:57	5 - high need	5 - high need	5 - high need	5 - high need	5 - high need	Maybe	Unsure
12/3/2021 5:43:13	3	2	1 - low need	1 - low need	2	Yes	Public - Local Municipality
12/3/2021 6:31:11	5 - high need	3	5 - high need	3	3	Yes	Unsure
12/3/2021 7:51:21	4	5 - high need	4	3	4	Yes	Unsure
12/3/2021 8:11:48	2	5 - high need	2	2	2	Yes	Public - Local Municipality
12/3/2021 8:24:36	4	5 - high need	4	1 - low need	2	No	Public/Private Partnership between a business and local entity
12/3/2021 9:20:28	2	1 - low need	1 - low need	1 - low need	1 - low need	Maybe	Unsure

Timestamp	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Staff Supervision]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Trash/Recycling Receptacles 1]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Bathroom Facilities]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Wifi Access]	What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need [Park Signage]	Should an Indoor Recreation Complex feasibility study be considered for this space?	Who do you feel should have ownership and financial responsibility for this future park? (Currently the land is owned by the Earth Conservancy)
	5 - high need	5 - high need	5 - high need	5 - high need	5 - high need	Yes	Public/Private Partnership between a business and local entity
12/3/2021 10:57:10							
12/3/2021 11:37:03	1 - low need	5 - high need	5 - high need	1 - low need	5 - high need	No	Public - Local Municipality
12/3/2021 12:01:15	3	5 - high need	5 - high need	5 - high need	5 - high need	Yes	Public/Private Partnership between a business and local entity
12/3/2021 13:40:36	3	3	5 - high need	1 - low need	2	No	Unsure
12/3/2021 13:48:54	2	4	5 - high need	4	5 - high need	Yes	Public - Local Municipality
12/3/2021 16:09:34	5 - high need	5 - high need	5 - high need	2	5 - high need	Yes	Public/Private Partnership between a business and local entity
12/3/2021 20:52:35	5 - high need	3	3	3	3	Yes	Local School District
12/3/2021 21:36:37	4	4	5 - high need	3	3	Yes	Unsure
12/4/2021 5:59:00	3	4	5 - high need	5 - high need	3	Maybe	Unsure
12/4/2021 7:00:40	5 - high need	4	5 - high need	5 - high need	1 - low need	Yes	Public - Local Municipality
12/4/2021 12:32:44	1 - low need	5 - high need	5 - high need	1 - low need	1 - low need	Yes	Public/Private Partnership between a business and local entity
12/4/2021 19:29:05	1 - low need	5 - high need	5 - high need	1 - low need	1 - low need	Yes	Public/Private Partnership between a business and local entity
12/6/2021 22:30:18	3	3	3	1 - low need	2	No	Public - Local Municipality
12/9/2021 7:11:52	3	4	4	2	3	Yes	Public/Private Partnership between a business and local entity
12/13/2021 7:42:49	2	5 - high need	5 - high need	3	5 - high need	Yes	Public/Private Partnership between a business and local entity
12/14/2021 11:22:17	3	5 - high need	3	3	4	No	Unsure
12/14/2021 17:43:20	2	5 - high need	5 - high need	3	2	Yes	Public - Local Municipality
12/15/2021 19:25:59	1 - low need	1 - low need	4	2	3	No	Unsure
12/19/2021 19:12:48	1 - low need	2	4	2	2	No	Public/Private Partnership between a business and local entity
12/22/2021 11:23:02	4	5 - high need	5 - high need	5 - high need	4	Yes	Public - Local Municipality
12/31/2021 14:13:53	5 - high need	5 - high need	5 - high need	1 - low need	5 - high need	Maybe	Public - Local Municipality
1/9/2022 10:08:37	4	5 - high need	5 - high need	1 - low need	3	Yes	Public/Private Partnership between a business and local entity

Timestamp	Out of all potential recreational/community uses, what would be your top priority (name one)?	What Active Recreational amenities would you most desire to have in your community? [Basketball Courts]	How long have you lived in your current community?	How often do you utilize current recreational parks/facilities in your community per month?	What ethnicity to you recognize as?	Does anyone in your household have a disability?	Including yourself, how many members currently live in your household?
11/20/2021 4:06:14	Park to enhance living in the area	Somewhat Desired	Over 20 yrs	1-3 times per month	White	No	2
11/20/2021 7:20:36	Outdoor gathering space with walking trails, playgrounds, gardens, open areas/fields for varied activities.	Would Not Desire	Over 20 yrs	More than 10 times per month	White	No	4
11/20/2021 7:32:02	Indoor rec	Extremely Desired	Over 20 yrs	1-3 times per month	White	No	5
11/20/2021 8:29:01	Walking trails	Would Not Desire	Over 20 yrs	1-3 times per month	White	No	4
11/20/2021 9:22:02	A water park	Little Desire	Over 20 yrs	4-9 times per month	White	Yes	2
11/20/2021 9:41:19	Biking	Little Desire	Over 20 yrs	4-9 times per month	White	No	3
11/20/2021 11:24:09	Walking/ jogging track around a scenic area (pond / flowering plants, trees etc)	Extremely Desired	Over 20 yrs	Rarely	White	Yes	2
11/20/2021 12:16:35	Running trails	Extremely Desired	Over 20 yrs	4-9 times per month	White	No	2
11/20/2021 12:51:33	Walking jogging park	Somewhat Desired	Over 20 yrs	1-3 times per month	White	No	2
11/20/2021 15:19:56	Something that will generate income, also allow dogs	Would Not Desire	Over 20 yrs	4-9 times per month	White	Yes	3
11/20/2021 20:04:16	Run walk trails	Little Desire	10-19yrs	1-3 times per month	White	No	1
11/20/2021 20:16:19	Safe walking trail	Somewhat Desired	Over 20 yrs	1-3 times per month	Prefer Not to Answer	No	2
11/20/2021 23:36:19	Jogging loop - I've been waiting for one in Hanover for years	Little Desire	10-19yrs	Rarely	White	No	4
11/21/2021 8:45:16	Splash pad and playground for all abilities	Somewhat Desired	6-10yrs	1-3 times per month	White	No	3
11/21/2021 14:21:35	disabled accessible nature	Would Not Desire	Over 20 yrs	Rarely	White	Yes	3
11/21/2021 14:23:17	Walking.	Little Desire	Over 20 yrs	4-9 times per month	White	Prefer Not to Answer	3
11/21/2021 14:29:04	Safety	Extremely Desired	Over 20 yrs	1-3 times per month	White	Yes	2
11/21/2021 14:35:32	Green space	Would Not Desire	6-10yrs	1-3 times per month	White	Yes	1
11/21/2021 14:47:28	Walking	Would Not Desire	10-19yrs	More than 10 times per month	White	No	1
11/21/2021 18:04:04	Biking trails	Little Desire	Over 20 yrs	1-3 times per month	White	No	2
11/21/2021 18:21:21	dog park	Little Desire	10-19yrs	Rarely	White	No	3
11/21/2021 18:22:38	Walking path	Little Desire	10-19yrs	More than 10 times per month	White	No	3
11/21/2021 18:25:20	Dog park	Somewhat Desired	6-10yrs	1-3 times per month	White	No	1
11/21/2021 22:02:16	Biking paths, walking/jogging loops, running/walking track	Extremely Desired	Over 20 yrs	Rarely	White	No	3

Timestamp	Out of all potential recreational/community uses, what would be your top priority (name one)?	What Active Recreational amenities would you most desire to have in your community? [Basketball Courts]	How long have you lived in your current community?	How often do you utilize current recreational parks/facilities in your community per month?	What ethnicity to you recognize as?	Does anyone in your household have a disability?	Including yourself, how many members currently live in your household?
11/22/2021 7:58:18	Biking, walking	Little Desire	Over 20 yrs	4-9 times per month	White	Yes	4
11/22/2021 8:08:26	Pool	Would Not Desire	6-10yrs	1-3 times per month	White	No	2
11/22/2021 10:00:47	Park with walking paths and seating	No Preference	Over 20 yrs	1-3 times per month	White	No	3
11/22/2021 10:59:04	Playground	Somewhat Desired	6-10yrs	Rarely	White	No	3
11/22/2021 11:07:34	Children recreation	Somewhat Desired	6-10yrs	1-3 times per month	White	No	3
11/22/2021 11:58:47	exercise	Extremely Desired	Over 20 yrs	Rarely	White	No	3
11/22/2021 12:08:44	Maintaining a natural design for full appreciation of local ecology in harmony with community use.	No Preference	Less than 5yrs	1-3 times per month	White	No	2
11/22/2021 13:54:48	Skate Park	Little Desire	Over 20 yrs	1-3 times per month	White	No	5
11/22/2021 14:26:57	Hiking	Would Not Desire	Over 20 yrs	4-9 times per month	White	No	3
11/22/2021 14:45:30	Safe walking scenic trails	No Preference	Over 20 yrs	Rarely	White	No	2
11/22/2021 14:49:32	Walking/jogging	Little Desire	Over 20 yrs	Rarely	White	No	2
11/22/2021 15:57:15	Soccer fields and indoor facility for children playing sports to use year round	Little Desire	10-19yrs	More than 10 times per month	White	No	More than 5
11/22/2021 16:06:03	Paid dog park and community garden	Would Not Desire	Less than 5yrs	4-9 times per month	Hispanic / Latino	No	2
11/22/2021 16:09:07	Accessible to all ages/abilities	Little Desire	Less than 5yrs	1-3 times per month	White	No	4
11/22/2021 18:46:08	Trails	Somewhat Desired	Over 20 yrs	1-3 times per month	Prefer Not to Answer	No	2
11/22/2021 19:25:04	Sport fields	Somewhat Desired	Over 20 yrs	4-9 times per month	White	No	5
11/22/2021 19:27:20	Ableist playground	Extremely Desired	Over 20 yrs	Rarely	White	Yes	3
11/22/2021 19:42:29	Outdoor recreation space	Extremely Desired	Over 20 yrs	Rarely	Prefer Not to Answer	No	4
11/22/2021 20:20:33	Track/jogging loop	Extremely Desired	Over 20 yrs	1-3 times per month	White	No	5
11/22/2021 20:22:29	N/a	Extremely Desired	6-10yrs	Rarely	White	No	3
11/22/2021 20:22:51	swimming pool for summer recreation,and a wading pool for little ones,picnic area,outdoor grills available for use for family picnics, cookouts etc.handicapped swings and other park play equipment aimed towards handicapped children,snack shop.	Would Not Desire	Over 20 yrs	Rarely	White	No	1
11/22/2021 20:31:13	an amusement park.	No Preference	Over 20 yrs	Rarely	Prefer Not to Answer	Prefer Not to Answer	Prefer Not to Answer
11/22/2021 20:38:12	walking trails	Little Desire	Over 20 yrs	1-3 times per month	White	No	1
11/22/2021 20:52:53	Sports facility	Extremely Desired	Over 20 yrs	Rarely	White	No	2
11/22/2021 21:02:20	Bicycling/ Walking	Would Not Desire	10-19yrs	More than 10 times per month	White	No	5
11/22/2021 21:27:42	Outdoor and indoor pools	Extremely Desired	Over 20 yrs	Rarely	Prefer Not to Answer	No	2
11/22/2021 23:27:39	Nanticoke home soccer field	Little Desire	Over 20 yrs	4-9 times per month	White	No	4
11/23/2021 1:21:28	Splash pad Spring Park	Extremely Desired	Less than 5yrs	1-3 times per month	White	Yes	5
11/23/2021 5:33:31	Safe nature walk	Somewhat Desired	10-19yrs	Rarely	White	No	Prefer Not to Answer
11/23/2021 5:42:49	Walking trails	Extremely Desired	Over 20 yrs	Rarely	White	No	3
11/23/2021 6:15:42	Indoor rec park	Extremely Desired	Over 20 yrs	4-9 times per month	White	No	More than 5
11/23/2021 6:29:31	Running/walking track	Would Not Desire	Over 20 yrs	More than 10 times per month	White	No	2

Timestamp	Out of all potential recreational/community uses, what would be your top priority (name one)?	What Active Recreational amenities would you most desire to have in your community? [Basketball Courts]	How long have you lived in your current community?	How often do you utilize current recreational parks/facilities in your community per month?	What ethnicity to you recognize as?	Does anyone in your household have a disability?	Including yourself, how many members currently live in your household?
	Community fields with turf. Indoor sports facility.	Extremely Desired	Over 20 yrs	4-9 times per month	White	No	5
11/23/2021 6:41:21							
11/23/2021 9:50:55	walking trails	Somewhat Desired	Over 20 yrs	Rarely	White	No	2
11/23/2021 20:06:44	Sports	Extremely Desired	Over 20 yrs	4-9 times per month	White	No	More than 5
11/23/2021 22:09:45	Youth sports	Little Desire	10-19yrs	More than 10 times per month	White	No	4
11/23/2021 22:10:58	Splash pads/sports fields/bike and skating park	Extremely Desired	Over 20 yrs	4-9 times per month	White	No	4
11/23/2021 22:11:14	Any	Somewhat Desired	6-10yrs	Rarely	White	No	4
11/23/2021 22:12:30	Home football field for Hanover Mini Hawks, since they don't currently have a "home" field.. like soccer and baseball do.	Somewhat Desired	10-19yrs	More than 10 times per month	White	No	4
11/23/2021 22:16:02	Hanover Hideaway	Extremely Desired	6-10yrs	4-9 times per month	White	No	4
11/23/2021 22:25:34	Indoor sports	Somewhat Desired	Over 20 yrs	4-9 times per month	White	No	5
11/23/2021 22:58:19	Football field for Hanover Mini Hawks	Extremely Desired	Less than 5yrs	4-9 times per month	White	No	5
11/24/2021 0:15:33	Youth football field	Would Not Desire	10-19yrs	More than 10 times per month	White	No	4
11/24/2021 0:29:37	Recreational center	Somewhat Desired	Less than 5yrs	1-3 times per month	White	No	4
11/24/2021 1:22:01	Mini football field	Somewhat Desired	Over 20 yrs	1-3 times per month	White	No	3
11/24/2021 5:35:10	Hanover mini hawks football	Somewhat Desired	10-19yrs	1-3 times per month	White	Prefer Not to Answer	3
11/24/2021 5:43:28	Outdoor sports, playground, track	Extremely Desired	6-10yrs	More than 10 times per month	White	No	4
11/24/2021 6:35:19	Safety	Somewhat Desired	6-10yrs	Rarely	White	No	4
11/24/2021 6:52:40	Playground/splash pad	Extremely Desired	6-10yrs	1-3 times per month	White	No	4
11/24/2021 6:57:04	A safe space for kids to be active and have fun	No Preference	Over 20 yrs	More than 10 times per month	White	No	4
11/24/2021 6:59:51	Splash pad/playground	Extremely Desired	10-19yrs	More than 10 times per month	White	No	4
11/24/2021 7:07:45	Sports	Extremely Desired	Less than 5yrs	More than 10 times per month	White	No	3
11/24/2021 8:26:48	Indoor/outdoor fields for soccer and footballs and field hockey	Extremely Desired	10-19yrs	More than 10 times per month	White	No	4
11/24/2021 8:55:35	Swimming pool	Extremely Desired	6-10yrs	More than 10 times per month	Hispanic / Latino	Yes	More than 5

Timestamp	Out of all potential recreational/community uses, what would be your top priority (name one)?	What Active Recreational amenities would you most desire to have in your community? [Basketball Courts]	How long have you lived in your current community?	How often do you utilize current recreational parks/facilities in your community per month?	What ethnicity to you recognize as?	Does anyone in your household have a disability?	Including yourself, how many members currently live in your household?
	Hanover Area Junior/Senior High School	Extremely Desired	Less than 5yrs	Rarely	White	No	1
11/24/2021 9:19:43							
11/24/2021 9:29:50	Hanover Area Junior/Senior High School	Extremely Desired	Less than 5yrs	Rarely	White	No	1
11/24/2021 9:38:15	Indoor recreation center with turf fields for multiple sports	No Preference	Over 20 yrs	More than 10 times per month	White	No	4
11/24/2021 10:23:23	Indoor soccer fields	Would Not Desire	Over 20 yrs	More than 10 times per month	White	No	5
11/24/2021 10:31:50	Sports field	Somewhat Desired	Over 20 yrs	Rarely	White	No	3
11/24/2021 10:32:25	Indoor Sports Complex	Extremely Desired	Over 20 yrs	More than 10 times per month	Hispanic / Latino	No	4
11/24/2021 13:12:25	Family oriented -walking, recreation	Somewhat Desired	10-19yrs	1-3 times per month	White	No	3
11/24/2021 14:19:30	Basketball/one center location for multiple baseball fields. Lots of revenue could be generated with travel baseball/softball fields.	Extremely Desired	Over 20 yrs	Rarely	White	No	5
11/24/2021 18:36:32	Youth sports	Somewhat Desired	10-19yrs	1-3 times per month	White	Yes	3
11/24/2021 20:47:26	Football field	Little Desire	10-19yrs	1-3 times per month	White	Yes	3
11/24/2021 21:01:10	Rec complex	Little Desire	Over 20 yrs	1-3 times per month	White	No	2
11/24/2021 21:17:33	Indoor swimming pool	Little Desire	6-10yrs	Rarely	White	Yes	3
11/24/2021 22:25:26	Indoor rec and activities center	Somewhat Desired	Over 20 yrs	1-3 times per month	White	No	1
11/25/2021 10:03:53	Walking path	Somewhat Desired	10-19yrs	1-3 times per month	Asian American	No	4
11/25/2021 13:59:45	Indoor turf fields for soccer, football, field hockey, golf driving range, etc.	No Preference	Over 20 yrs	More than 10 times per month	White	No	4
11/26/2021 4:17:21	Indoor / outdoor soccer/football fields	Would Not Desire	10-19yrs	More than 10 times per month	Hispanic / Latino	No	4
11/26/2021 9:21:56	Walking trails	Somewhat Desired	Over 20 yrs	1-3 times per month	White	No	2

Timestamp	Out of all potential recreational/community uses, what would be your top priority (name one)?	What Active Recreational amenities would you most desire to have in your community? [Basketball Courts]	How long have you lived in your current community?	How often do you utilize current recreational parks/facilities in your community per month?	What ethnicity to you recognize as?	Does anyone in your household have a disability?	Including yourself, how many members currently live in your household?
	Free or low cost play area for small kids	Somewhat Desired	6-10yrs	4-9 times per month	White	Yes	4
11/26/2021 22:40:57							
11/27/2021 1:24:25	Family areas	Extremely Desired	Over 20 yrs	1-3 times per month	White	Yes	5
11/27/2021 6:17:59	Walking trail	Little Desire	Over 20 yrs	Rarely	White	Yes	2
11/27/2021 8:09:17	Somewhere to walk safely	Extremely Desired	Over 20 yrs	Rarely	White	No	2
11/27/2021 9:01:48	Anything offered	Extremely Desired	10-19yrs	Rarely	White	No	5
11/27/2021 9:09:30	Bike, walking, dog park	Little Desire	10-19yrs	1-3 times per month	White	No	2
11/27/2021 13:53:00	Walking	Little Desire	Over 20 yrs	Rarely	White	No	3
11/27/2021 17:51:03	Walking and running trails	Would Not Desire	Over 20 yrs	1-3 times per month	White	Yes	4
11/27/2021 19:16:48	Swimming	Little Desire	Less than 5yrs	Rarely	White	No	1
11/27/2021 20:20:02	swimming pool	Extremely Desired	Over 20 yrs	1-3 times per month	White	Yes	1
11/27/2021 21:52:16	Park/picnic area	Extremely Desired	Over 20 yrs	1-3 times per month	White	No	4
11/29/2021 12:04:55	Recreation fields for tournaments	Extremely Desired	Over 20 yrs	4-9 times per month	White	No	5
11/29/2021 16:17:59	Walking trails	Extremely Desired	Over 20 yrs	Rarely	White	No	3
11/29/2021 16:53:15	Sport fields inside	Little Desire	Over 20 yrs	Rarely	White	No	4
11/29/2021 18:43:11	Outdoor Recreational Spaces / Concert Space	No Preference	6-10yrs	1-3 times per month	White	No	1
11/29/2021 18:46:45	Walking Track	Little Desire	Over 20 yrs	More than 10 times per month	White	Yes	1
11/29/2021 18:48:16	Walking path	Somewhat Desired	Less than 5yrs	Rarely	White	No	2
11/29/2021 18:50:19	biking	No Preference	Over 20 yrs	Rarely	White	No	1
11/29/2021 18:52:13	Biking path	No Preference	Over 20 yrs	More than 10 times per month	White	No	2
11/29/2021 19:05:09	Disc golf course and softball field	Somewhat Desired	10-19yrs	4-9 times per month	White	Yes	2
11/29/2021 19:09:58	Walking trails	Would Not Desire	Less than 5yrs	Rarely	White	No	2
11/29/2021 19:10:06	Walking trails	Would Not Desire	Less than 5yrs	Rarely	White	No	2
11/29/2021 19:13:10	Walking & Biking trails, skate park, something that the kids can use, and have something to do	Extremely Desired	10-19yrs	More than 10 times per month	White	No	5
11/29/2021 19:24:06	Kid approved and used.	Extremely Desired	Over 20 yrs	Rarely	White	No	2
11/29/2021 19:25:25	Dog park	Somewhat Desired	Over 20 yrs	More than 10 times per month	White	Prefer Not to Answer	3
11/29/2021 19:34:36	Health /fitness	Extremely Desired	Over 20 yrs	More than 10 times per month	White	Yes	More than 5
11/29/2021 19:51:25	Pool. Swimming/lap pool	Little Desire	Over 20 yrs	Rarely	White	No	2
11/29/2021 20:08:27	A park with benches, something for children to do also. Walking paths, playground equipment,	Little Desire	Less than 5yrs	1-3 times per month	White	Yes	1
11/29/2021 21:17:33	Recreation complex	Little Desire	Less than 5yrs	Rarely	White	No	3

Timestamp	Out of all potential recreational/community uses, what would be your top priority (name one)?	What Active Recreational amenities would you most desire to have in your community? [Basketball Courts]	How long have you lived in your current community?	How often do you utilize current recreational parks/facilities in your community per month?	What ethnicity to you recognize as?	Does anyone in your household have a disability?	Including yourself, how many members currently live in your household?
11/29/2021 21:21:28	Walking track	Little Desire	Over 20 yrs	Rarely	White	No	2
11/29/2021 21:23:28	Outdoor concert space	Would Not Desire	Over 20 yrs	1-3 times per month	White	Prefer Not to Answer	3
11/29/2021 21:32:03	Walking	No Preference	Over 20 yrs	Rarely	White	No	1
11/29/2021 21:34:29	Indoor facilities- turf fields	Extremely Desired	10-19yrs	1-3 times per month	White	No	3
11/29/2021 21:39:00	Hiking / walking trails	Somewhat Desired	Over 20 yrs	1-3 times per month	White	No	4
11/29/2021 21:54:07	Walking trails	Little Desire	Over 20 yrs	1-3 times per month	White	No	2
11/29/2021 23:12:49	Swimming pool	Somewhat Desired	Over 20 yrs	1-3 times per month	White	Yes	3
11/29/2021 23:35:33	What's needed is a nice well lit green space with walking trails and ball fields and basketball and tennis courts for all our township residents to enjoy. Think a cleaner and better Kirby Park. Security and safety has to be the #1 priority or else it won't work. People need a place to go and not worry about drug use and/or vagrants milling around. People from all demographics should be able to utilize this park with signs in both English and Spanish for our ever changing community. Something like this is sorely needed in the township and would be a way to bring the community together.	Extremely Desired	Over 20 yrs	Rarely	White	No	4
11/30/2021 2:23:23	Indoor soccer so we could play soccer all year without having to travel to Scranton!	Little Desire	10-19yrs	1-3 times per month	White	No	4
11/30/2021 8:35:45	Skate park	Extremely Desired	Over 20 yrs	More than 10 times per month	White	Yes	More than 5
11/30/2021 9:15:48	Community playground and picnic area similar to Bervaughn Park in Berwick	Would Not Desire	Over 20 yrs	Rarely	White	No	2
11/30/2021 9:20:09	atv / dirtbike park	Would Not Desire	10-19yrs	More than 10 times per month	White	No	4
11/30/2021 11:08:27	Ice skating rink	Somewhat Desired	Over 20 yrs	Rarely	White	No	2
11/30/2021 15:15:08	I just don't want to see whatever it is get ruined , trash receptacles and some sort of supervision checkup would be nice every now and then	Would Not Desire	10-19yrs	Rarely	White	Yes	4
11/30/2021 15:31:02	Community Event for Hanover Industrial Park	Extremely Desired	Less than 5yrs	1-3 times per month	White	No	2
11/30/2021 16:07:08	Natural setting	Somewhat Desired	10-19yrs	1-3 times per month	White	No	2
11/30/2021 16:22:58	Bike trail	Somewhat Desired	Over 20 yrs	More than 10 times per month	White	Yes	More than 5
11/30/2021 21:25:38	Conserving as much natural, undisturbed land as possible, to include existing trees. Walking or hiking trails with possible replanting wildflowers to maintain biodiversity.	Little Desire	Over 20 yrs	More than 10 times per month	White	No	1
11/30/2021 22:10:37	A public pool.	Somewhat Desired	10-19yrs	More than 10 times per month	White	No	3
12/1/2021 12:43:35	N/A	Somewhat Desired	Less than 5yrs	Rarely	White	No	3
12/2/2021 9:18:22	Youth football	No Preference	Over 20 yrs	4-9 times per month	White	No	3
12/3/2021 4:10:57	A safe play for kids	Extremely Desired	Less than 5yrs	1-3 times per month	White	No	2
12/3/2021 5:43:13	having something for everyone to use	Little Desire	6-10yrs	Rarely	White	No	2
12/3/2021 6:31:11	Indoor sports fields/courts	No Preference	6-10yrs	More than 10 times per month	White	No	5
12/3/2021 7:51:21	Space for my cross country/track children to use that is safe, well lit, with park staff.	Little Desire	10-19yrs	1-3 times per month	White	Yes	4
12/3/2021 8:11:48	Pool	Extremely Desired	6-10yrs	1-3 times per month	White	No	4
12/3/2021 8:24:36	walking / running/ biking trails that are safe	Somewhat Desired	Over 20 yrs	4-9 times per month	White	No	4
12/3/2021 9:20:28	Dog park	Little Desire	10-19yrs	1-3 times per month	White	No	2

Timestamp	Out of all potential recreational/community uses, what would be your top priority (name one)?	What Active Recreational amenities would you most desire to have in your community? [Basketball Courts]	How long have you lived in your current community?	How often do you utilize current recreational parks/facilities in your community per month?	What ethnicity to you recognize as?	Does anyone in your household have a disability?	Including yourself, how many members currently live in your household?
	"Non-conventional" facilities such as a skate park would be an excellent draw and would create a space for people who are discouraged from using other public areas especially if the facility is on a bus route. There are plenty of basketball courts, soccer, and baseball fields all over the area. It's time to create a space that includes other options.	Somewhat Desired	Less than 5yrs	Rarely	White	No	2
12/3/2021 10:57:10							
12/3/2021 11:37:03	Football field for the mini hawks.	Extremely Desired	Over 20 yrs	More than 10 times per month	White	No	4
12/3/2021 12:01:15	Nature trails for walking and biking	Little Desire	Over 20 yrs	Rarely	White	No	2
12/3/2021 13:40:36	Something we don't currently have!	No Preference	6-10yrs	1-3 times per month	White	No	4
12/3/2021 13:48:54	A mountain bike park with jumps, berms, obstacles, etc. There is no where around here, legally, to ride dirt jumps on bikes. Also cross country trails can be easily incorporated into the site and could be a source of revenue from holding events.	Little Desire	Less than 5yrs	More than 10 times per month	White	No	5
12/3/2021 16:09:34	Just having a place for kids to be kids and not be attached to electronics is a top priority.	Extremely Desired	6-10yrs	4-9 times per month	White	Yes	4
12/3/2021 20:52:35	Biking	No Preference	Over 20 yrs	4-9 times per month	White	No	5
12/3/2021 21:36:37	Walking/biking area	Extremely Desired	Over 20 yrs	Rarely	White	No	3
12/4/2021 5:59:00	Park with modern amenities	Would Not Desire	Over 20 yrs	4-9 times per month		No	2
12/4/2021 7:00:40	Pool	Extremely Desired	Less than 5yrs	4-9 times per month	White	No	4
12/4/2021 12:32:44	Splash pad, community pool, accessible playground	Little Desire	Over 20 yrs	1-3 times per month	White	Yes	5
12/4/2021 19:29:05	Hanover Mini Hawks	Little Desire	Less than 5yrs	More than 10 times per month	White	No	3
12/6/2021 22:30:18	Football field	Little Desire	Over 20 yrs	More than 10 times per month	White	No	5
12/9/2021 7:11:52	Indoor basketball courts and outdoor sports fields.	Extremely Desired	Over 20 yrs	More than 10 times per month	White	Yes	4
12/13/2021 7:42:49	Indoor sporting area	Extremely Desired	6-10yrs	More than 10 times per month	White	No	5
12/14/2021 11:22:17	Dog Park	Little Desire	Over 20 yrs	More than 10 times per month	Prefer Not to Answer	Yes	2
12/14/2021 17:43:20	biking/walking trail	Little Desire	10-19yrs	Rarely	White	No	More than 5
12/15/2021 19:25:59	Wide trails connected to dikes and rails to trails	Would Not Desire	Over 20 yrs	More than 10 times per month	White	No	2
12/19/2021 19:12:48	Walking paths	Little Desire	10-19yrs	1-3 times per month	Prefer Not to Answer	No	3
12/22/2021 11:23:02	Dog park	Extremely Desired	6-10yrs	4-9 times per month	White	No	2
12/31/2021 14:13:53	Nature area. There is so much land being turned into warehouse areas. It would be nice to conserve an area where Native wildlife can be studied. It can even be used for educational purposes to teach conservation to the growing generation.	Extremely Desired	Over 20 yrs	Rarely	White	No	2
1/9/2022 10:08:37	waling trails	Would Not Desire	Over 20 yrs	1-3 times per month	Prefer Not to Answer	Prefer Not to Answer	4

Timestamp	What amenities would you prefer to see in an indoor recreation complex? Choose all you or someone in your household would utilize.	Please share any additional information you would like about your thoughts on new recreational amenities to your community.
11/20/2021 4:06:14	Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Running/Walking Track	We need to attract people to our area; offer things to enhance living here in luzerne county
11/20/2021 7:20:36	Youth Program Space (Summer Rec, Enrichement)	
11/20/2021 7:32:02	Sport Court Flooring for various sports	
11/20/2021 8:29:01	Running/Walking Track	
11/20/2021 9:22:02	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement)	Why do you think the local municipality or school district should be responsible for the financial upkeep, if this facility comes into reality? There is so many other recreational areas that became deplorable due to lack of no funding and were taken over by the state. The Hanover area school district and municipalities surrounding the area can not afford to be financially responsible for the upkeep. I think I can speak on behalf of the all the homeowners that we can not afford our taxes to be raised again.
11/20/2021 9:41:19	Fitness Equipment, Group Fitness Class Space, Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/20/2021 11:24:09	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	<p>Because of life changes, I needed to move back to the area since 2020, after living in Delaware for 30 years. I am searching for a park that will offer safe outdoor opportunities close-by. I have not found any that I enjoy, which I had abundantly while living in Delaware. I encourage you to use online resources to investigate: https://news.delaware.gov/2021/11/16/delaware-state-parks-wins-national-competition-for-excellence/. And, https://destateparks.com/bellevue.</p> <p>I realize that these are talking about State park systems, and am not sure how the system works or is funded, but there are wonderful parks throughout Delaware, including public parks at beaches, interconnected bike trails, hiking and even an AAZ accredited zoo that is in part managed by DE state park system. They have outdoor concerts in the park at Bellevue on Thursdays and Sundays during spring and summer. I pay an annual fee for a car sticker and there is a pay envelope system in place for out-of-state or 1 time visitors to any state park in the state. Several local non-state run parks and many high schools / middle-schools have public running tracks, tennis courts and baseball/soccer fields, and playgrounds directly in the neighborhoods. I was also involved with a large woman's summer tennis league / USTA sanctioned for outdoor tennis. We paid annual court fees and played at a middle school, but other teams were sponsored by an array of womens groups, some country clubs or other park or local park courts/ or University of DE teams - all outdoor spring through summer. There are also tennis hitting practice walls, which could be used for tennis warmups or possibly be used for pickle ball practice. I have not found any comparable tennis groups in the area.</p> <p>Thank you for working on this project! I feel it is desperately needed! Please consider safety as my utmost priority because I am usually by myself and often afraid to tackle outdoor walking / jogging by myself.</p>
11/20/2021 12:16:35	Swimming Pool / Lap Lanes, Fitness Equipment, Sport Court Flooring for various sports, Running/Walking Track	I hope this actually happens
11/20/2021 12:51:33	Fitness Equipment, Group Fitness Class Space, Running/Walking Track	
11/20/2021 15:19:56	Childcare, Youth Program Space (Summer Rec, Enrichement)	Sounds like a great idea, make nacero pay for it
11/20/2021 20:04:16	Swimming Pool / Lap Lanes, Fitness Equipment, Running/Walking Track	The community desperately needs a place like this
11/20/2021 20:16:19	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Running/Walking Track	Healthy and safe areas for residents to spend time outdoors are needed
11/20/2021 23:36:19	Running/Walking Track	
11/21/2021 8:45:16	Swimming Pool / Lap Lanes, Fitness Equipment, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/21/2021 14:21:35	Swimming Pool / Lap Lanes	fishing pond
11/21/2021 14:23:17	Swimming Pool / Lap Lanes, Running/Walking Track	Currently drive miles for good walking areas
11/21/2021 14:29:04	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/21/2021 14:35:32	Running/Walking Track	
11/21/2021 14:47:28	Swimming Pool / Lap Lanes, Running/Walking Track	
11/21/2021 18:04:04	Swimming Pool / Lap Lanes	Something that gets people outside to relax or exercise. Keep it as natural and wooded as possible.
11/21/2021 18:21:21	Swimming Pool / Lap Lanes, Fitness Equipment, Running/Walking Track	
11/21/2021 18:22:38	Running/Walking Track	Allow for dog walking
11/21/2021 18:25:20	Fitness Equipment	
11/21/2021 22:02:16	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Running/Walking Track	None

Timestamp	What amenities would you prefer to see in an indoor recreation complex? Choose all you or someone in your household would utilize.	Please share any additional information you would like about your thoughts on new recreational amenities to your community.
11/22/2021 7:58:18	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Running/Walking Track	
11/22/2021 8:08:26	Swimming Pool / Lap Lanes	
11/22/2021 10:00:47	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/22/2021 10:59:04	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/22/2021 11:07:34	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall	
11/22/2021 11:58:47	Swimming Pool / Lap Lanes, Fitness Equipment, Running/Walking Track	
11/22/2021 12:08:44	Swimming Pool / Lap Lanes, Climbing Wall	The largest issue with my nearest park is accessibility. It can be difficult to walk to and almost impossibly to park a car. When I provide childcare for my relatives, it can be a hassle to walk so many children so far.
11/22/2021 13:54:48	Swimming Pool / Lap Lanes, Fitness Equipment, Climbing Wall, Running/Walking Track	
11/22/2021 14:26:57	Swimming Pool / Lap Lanes	Public Safety should be TOP priority or no one will utilize it.
11/22/2021 14:45:30	Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Running/Walking Track	Security and safeness for all ages
11/22/2021 14:49:32	Swimming Pool / Lap Lanes, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	Proper maintenance and upkeep of this facility is a major concern. The area will need to have adequate security so people feel safe using it.
11/22/2021 15:57:15	Swimming Pool / Lap Lanes, Climbing Wall, Sport Court Flooring for various sports	
11/22/2021 16:06:03	Swimming Pool / Lap Lanes, Group Fitness Class Space, Running/Walking Track	A well kept community oriented space that would allow the area to learn and garden as well as provide a space for responsible pet owners to visit. Would gladly pay fee for use of dog park to ensure safety of pets and owners and avoid injury.
11/22/2021 16:09:07	Swimming Pool / Lap Lanes, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall	
11/22/2021 18:46:08	Running/Walking Track	
11/22/2021 19:25:04	Fitness Equipment, Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports, Running/Walking Track	
11/22/2021 19:27:20	Swimming Pool / Lap Lanes, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Running/Walking Track	
11/22/2021 19:42:29	Fitness Equipment, Group Fitness Class Space, Running/Walking Track	
11/22/2021 20:20:33	Swimming Pool / Lap Lanes, Fitness Equipment, Childcare, Running/Walking Track	
11/22/2021 20:22:29	Swimming Pool / Lap Lanes, Youth Program Space (Summer Rec, Enrichement)	
11/22/2021 20:22:51	Childcare, Youth Program Space (Summer Rec, Enrichement), Running/Walking Track	much needed 24 hour security and security cameras.as they recently built one in WB, but the older kids destroyed it for everyone,very sad the pigs who destroyed the splash pad,the bathrooms and painted graffiti all over everthing..We also had one in Lee Park that was nothing but trouble,and they knew it would be, but silly people rebuilt it just for the trash in this town to they tore it out of there and then rebuilt another
11/22/2021 20:31:13	Youth Program Space (Summer Rec, Enrichement)	Build an amusement park like Angela Park used to be. We need one in our area close to home!thanks that is all I have to offer
11/22/2021 20:38:12	Youth Program Space (Summer Rec, Enrichement), Running/Walking Track	Please don't try to cram too many things onto the site.
11/22/2021 20:52:53	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/22/2021 21:02:20	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Climbing Wall, Running/Walking Track	Thank you! Have a wonderful day!
11/22/2021 21:27:42	Swimming Pool / Lap Lanes, Childcare, Youth Program Space (Summer Rec, Enrichement)	
11/22/2021 23:27:39	Swimming Pool / Lap Lanes, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports	
11/23/2021 1:21:28	Fitness Equipment, Youth Program Space (Summer Rec, Enrichement), Climbing Wall	Splash pad Spring Park
11/23/2021 5:33:31	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Running/Walking Track	Keep it natural
11/23/2021 5:42:49	Swimming Pool / Lap Lanes, Running/Walking Track	
11/23/2021 6:15:42	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/23/2021 6:29:31	Running/Walking Track	

Timestamp	What amenities would you prefer to see in an indoor recreation complex? Choose all you or someone in your household would utilize.	Please share any additional information you would like about your thoughts on new recreational amenities to your community.
11/23/2021 6:41:21	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	I would love to see a positive change like this coming to Hanover Township. A running facility and club for elementary students would be great.
11/23/2021 9:50:55	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Running/Walking Track	
11/23/2021 20:06:44	Sport Court Flooring for various sports	Give the kids something to do
11/23/2021 22:09:45	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	All youth sports are in need of space. We do not receive any funding from our town or school district so our children would really benefit from this.
11/23/2021 22:10:58	Swimming Pool / Lap Lanes, Fitness Equipment, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	There aren't any recreational activity areas in our community. Something for kids to play safe and keep them out of trouble would be wonderful!
11/23/2021 22:11:14	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/23/2021 22:12:30	Swimming Pool / Lap Lanes, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall	They would be a huge asset to the Hanover Township community.
11/23/2021 22:16:02	Swimming Pool / Lap Lanes, Fitness Equipment, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Running/Walking Track	
11/23/2021 22:25:34	Swimming Pool / Lap Lanes, Fitness Equipment, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/23/2021 22:58:19	Swimming Pool / Lap Lanes, Fitness Equipment, Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports	
11/24/2021 0:15:33	Swimming Pool / Lap Lanes, Fitness Equipment, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	A youth football field is extremely important to existing Hanover youth football program
11/24/2021 0:29:37	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/24/2021 1:22:01	Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports	A home for our mini football teams. For years the Mini hawks never truly had a home to call their own. A facility with storage, a food stand, actual bathrooms and lights would go along way for the organization. They deserve a field to call home, and for the kids to be able to experience a few night games just like the high school teams.
11/24/2021 5:35:10	Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports, Running/Walking Track	
11/24/2021 5:43:28	Swimming Pool / Lap Lanes, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/24/2021 6:35:19	Swimming Pool / Lap Lanes, Fitness Equipment, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Running/Walking Track	
11/24/2021 6:52:40	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports	
11/24/2021 6:57:04	Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports, Running/Walking Track	
11/24/2021 6:59:51	Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports	Our area needs a large, updated park. We especially need one with new playground equipment for kids and other amenities to attract families. The Lehigh valley is a great example of parks done right in communities. We need one with large grass areas, new playground equipment and a splash pad. This is what we help encourage families to move into the area.
11/24/2021 7:07:45	Swimming Pool / Lap Lanes, Fitness Equipment, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/24/2021 8:26:48	Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	I think this is a great idea. Our Area is in need of this kind of facility. You can also host local and all star cheer competitions that will bring in a lot of revenue. My children currently go to Hanover Area. Our AD is very active in creating a positive and rewarding environment for our students. Our current facilities are less then desirable. Being that Nanticoke and Hanover are combining some athletic programs I believe this is a perfect location.
11/24/2021 8:55:35	Swimming Pool / Lap Lanes, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Running/Walking Track	Swimming pool

Timestamp	What amenities would you prefer to see in an indoor recreation complex? Choose all you or someone in your household would utilize.	Please share any additional information you would like about your thoughts on new recreational amenities to your community.
11/24/2021 9:19:43	Swimming Pool / Lap Lanes, Fitness Equipment, Childcare, Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports, Running/Walking Track	There are numerous sports and activities at Hanover Area Junior/Senior High School. They split up using the gym, auditorium, wrestling room, hallways, and cafeteria. Will limited time, availability, and space, the students aren't able to get an ideal or full practice experience, Outdoor sports need a place to go when it rains and the indoor sports are crunched for time because so many other groups need the space (Volleyball is always indoors, but outdoor sports are tennis, boys and girls junior varsity and varsity soccer, football, cross country) . For winter sports, you have girls and boys varsity basketball (each with separate practices), boys and girls junior varsity basketball (each with separate practices), junior varsity and varsity cheerleading (each with separate practices), junior varsity and varsity wrestling and even youth wrestling using the high school facilities, and also the Hanover Area Band all trying to use the school for their designated practices. An additional place for these students to practice would benefit them greatly and to help them reach their fullest potential.
11/24/2021 9:29:50	Swimming Pool / Lap Lanes, Fitness Equipment, Childcare, Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports, Running/Walking Track	Numerous sports and activities at the high school are crunched for space, time and availability. Fall, winter and spring sports aren't getting the ideal full practice experience due to this lack of space. (Volleyball, football, soccer, cheerleading, basketball, wrestling, band, etc.) Teams will use the hallway, cafeteria, and the auditorium if the gym is occupied. This isn't fair to these students who are trying to reach their highest potential, and the coaches who are trying to get them there. I see an additional facility bringing only positivity for these students and coaches who deserve full access to their sport or activity of choice.
11/24/2021 9:38:15	Swimming Pool / Lap Lanes, Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports, Running/Walking Track	Hanover township/Nanticoke area desperately needs an indoor rec center for youth sports. PLEASE PLEASE PLEASE
11/24/2021 10:23:23	Fitness Equipment, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall	I believe with all the businesses coming into the area they should be kicking money into a fund to build these facilities. Years ago if a company wanted to do business they built the roads and houses needed to sustain the factory. Today the people are paying them with tax breaks. We need to stop buying jobs and let them buy our workforce.
11/24/2021 10:31:50	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports, Running/Walking Track	
11/24/2021 10:32:25	Swimming Pool / Lap Lanes, Fitness Equipment, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/24/2021 13:12:25	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Running/Walking Track	I would love to see a place everyone can gather offering many amenities to us in Hanover we don't have
11/24/2021 14:19:30	Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	Security is a high priority to keep fields nice, safe and not ruined by certain individuals. Our streets and neighborhoods are changing. Our kids need somewhere safe to play.
11/24/2021 18:36:32	Swimming Pool / Lap Lanes, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/24/2021 20:47:26	Sport Court Flooring for various sports	A new football field would be great. I believe the one we have now is not only the oldest one in the area but probably in the state.
11/24/2021 21:01:10	Swimming Pool / Lap Lanes, Youth Program Space (Summer Rec, Enrichement)	
11/24/2021 21:17:33	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Running/Walking Track	
11/24/2021 22:25:26	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	Good way to keep kids off the streets and safe
11/25/2021 10:03:53	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/25/2021 13:59:45	Sport Court Flooring for various sports	Being a coach of youth sports in Hanover for the past decade (soccer, baseball, football, wrestling, basketball), I believe the youth of our community would benefit greatly from a indoor sport facility. Something with turf that all sports can enjoy and share. I also believe that a small outdoor concrete skatepark would not only benefit just the community of Hanover and Nanticoke but all of the valley. The majority of skateparks in this area have closed, (bloomsburg, Benton, Scranton) or have not been maintained (butler Twp, Scranton, Taylor). I know it is a smaller demographic that would use and enjoy the skatepark but I feel that it would be a community resource that would offer a safe place for kids to enjoy these sports.
11/26/2021 4:17:21	Sport Court Flooring for various sports	Allow our community youth to use sports fields for their practices and competitions especially if fields are equipped with lights.
11/26/2021 9:21:56	Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Running/Walking Track	Playground and splash pad walking trails

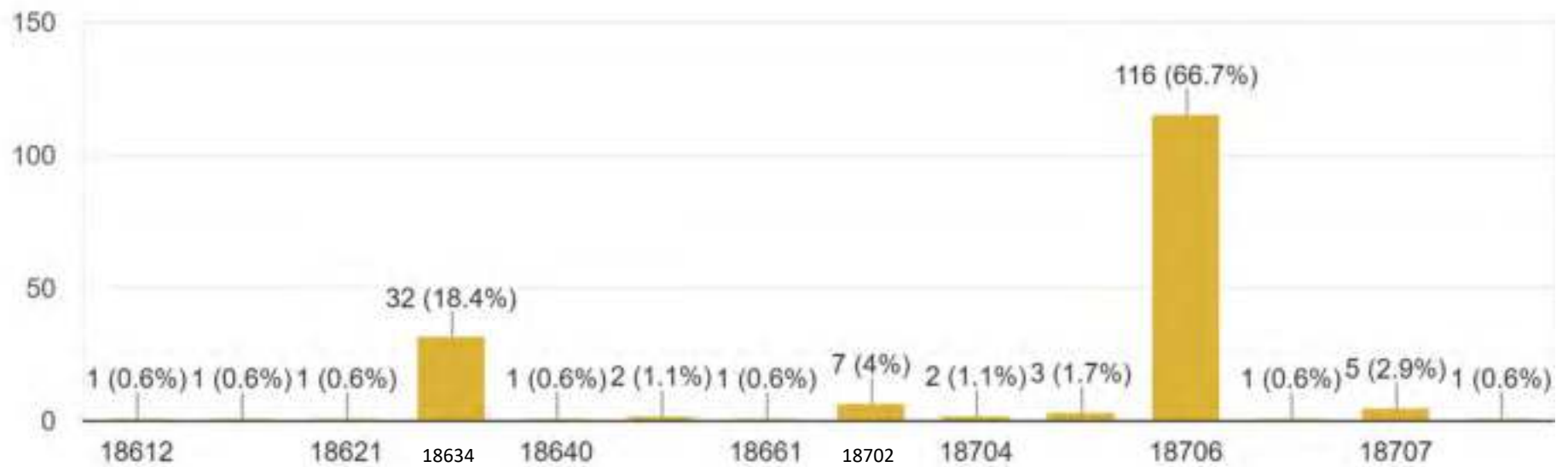
Timestamp	What amenities would you prefer to see in an indoor recreation complex? Choose all you or someone in your household would utilize.	Please share any additional information you would like about your thoughts on new recreational amenities to your community.
11/26/2021 22:40:57	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/27/2021 1:24:25	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	I think we all need a space to be safe and allowed to let kids be kids again
11/27/2021 6:17:59	Fitness Equipment, Group Fitness Class Space, Sport Court Flooring for various sports, Running/Walking Track	Really needed for peoples health and well being.
11/27/2021 8:09:17	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/27/2021 9:01:48	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	We have to travel to Kirby park to walk/softball/see a park in general and it's scary and filthy there. We would need a lot of security and oversight to keep the trash out of Hanover Township. If the area is going to be used for this, that sounds great, but from day 1 keep it SAFE. We don't need to invite people in this town that will not respect the land like we do. Hire worked to be there from day 1, enforcing rules and protecting the regulations in place.
11/27/2021 9:09:30	Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports	Walking/ bike path w dog park
11/27/2021 13:53:00	Fitness Equipment, Running/Walking Track	
11/27/2021 17:51:03	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	Bathrooms and running water
11/27/2021 19:16:48	Swimming Pool / Lap Lanes, Running/Walking Track	
11/27/2021 20:20:02	Swimming Pool / Lap Lanes, Running/Walking Track	
11/27/2021 21:52:16	Swimming Pool / Lap Lanes, Youth Program Space (Summer Rec, Enrichement), Climbing Wall	
11/29/2021 12:04:55	Swimming Pool / Lap Lanes, Fitness Equipment, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/29/2021 16:17:59	Fitness Equipment, Sport Court Flooring for various sports, Running/Walking Track	This area is in great need of a community park with as many amenities as possible for all ages.
11/29/2021 16:53:15	Swimming Pool / Lap Lanes, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	Public pavilion supported by community organizations
11/29/2021 18:43:11	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Climbing Wall, Sport Court Flooring for various sports	
11/29/2021 18:46:45	Fitness Equipment, Group Fitness Class Space, Running/Walking Track	
11/29/2021 18:48:16	Swimming Pool / Lap Lanes, Running/Walking Track	
11/29/2021 18:50:19	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Running/Walking Track	
11/29/2021 18:52:13	Swimming Pool / Lap Lanes, Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	Need connections to other trails such as D&L, Levee Trail
11/29/2021 19:05:09	Swimming Pool / Lap Lanes, Fitness Equipment, Climbing Wall, Sport Court Flooring for various sports	
11/29/2021 19:09:58	Swimming Pool / Lap Lanes, Fitness Equipment, Running/Walking Track	
11/29/2021 19:10:06	Swimming Pool / Lap Lanes, Fitness Equipment, Running/Walking Track	
11/29/2021 19:13:10	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/29/2021 19:24:06	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	Make walking path area for elderly.
11/29/2021 19:25:25	Youth Program Space (Summer Rec, Enrichement)	
11/29/2021 19:34:36	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	Need a health/fitness for communties
11/29/2021 19:51:25	Swimming Pool / Lap Lanes, Running/Walking Track	I don't currently utilize parks in the area because there are none that offer anything like described in this survey. Most are for children and even those are sub par.
11/29/2021 20:08:27	Group Fitness Class Space, Climbing Wall, Running/Walking Track	
11/29/2021 21:17:33	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Running/Walking Track	

Timestamp	What amenities would you prefer to see in an indoor recreation complex? Choose all you or someone in your household would utilize.	Please share any additional information you would like about your thoughts on new recreational amenities to your community.
11/29/2021 21:21:28	Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports, Running/Walking Track	
11/29/2021 21:23:28	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/29/2021 21:32:03	Swimming Pool / Lap Lanes, Group Fitness Class Space	
11/29/2021 21:34:29	Fitness Equipment, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/29/2021 21:39:00	Swimming Pool / Lap Lanes, Fitness Equipment, Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports, Running/Walking Track	
11/29/2021 21:54:07	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Running/Walking Track	
11/29/2021 23:12:49	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/29/2021 23:35:33	Swimming Pool / Lap Lanes, Fitness Equipment, Sport Court Flooring for various sports, Running/Walking Track	
11/30/2021 2:23:23	Swimming Pool / Lap Lanes, Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports, Running/Walking Track	
11/30/2021 8:35:45	Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
11/30/2021 9:15:48	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	Much needed in this area. I believe you will have much local support. It would be a great asset to Hanover Township. Please highly consider... the area needs more than businesses to attract people. We need nature and outdoor activities like more parks.
11/30/2021 9:20:09	Climbing Wall	
11/30/2021 11:08:27	Youth Program Space (Summer Rec, Enrichement), Running/Walking Track	Will taxes go up?
11/30/2021 15:15:08	Group Fitness Class Space	
11/30/2021 15:31:02	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	The location is poorly located since very few people would be able to walk or bike to the facility from home. Facility should be more geared to people working in Hanover Industry Park. People shouldn't have to drive a car or ride a bus to access a park.
11/30/2021 16:07:08	Running/Walking Track	Area should be kept as natural as possible with walking paths. So much of the nature and beauty of this area has been destroyed and is being destroyed by this "progress".
11/30/2021 16:22:58	Swimming Pool / Lap Lanes, Climbing Wall, Running/Walking Track	Thank you!
11/30/2021 21:25:38	Childcare	Any previously disturbed land might be best used as recreational fields, whereas the remaining areas kept natural and perhaps enhanced and beautified with new plantings.
11/30/2021 22:10:37	Swimming Pool / Lap Lanes, Fitness Equipment, Youth Program Space (Summer Rec, Enrichement), Climbing Wall	
12/1/2021 12:43:35	Swimming Pool / Lap Lanes, Fitness Equipment, Climbing Wall	
12/2/2021 9:18:22	Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports	Ares needs more support for youth football. There are designated recreational lands dedicated to other youth sports in the area
12/3/2021 4:10:57	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	
12/3/2021 5:43:13	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Running/Walking Track	
12/3/2021 6:31:11	Sport Court Flooring for various sports	
12/3/2021 7:51:21	Swimming Pool / Lap Lanes, Group Fitness Class Space, Sport Court Flooring for various sports, Running/Walking Track	
12/3/2021 8:11:48	Swimming Pool / Lap Lanes, Fitness Equipment, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall	
12/3/2021 8:24:36	Youth Program Space (Summer Rec, Enrichement), Running/Walking Track	
12/3/2021 9:20:28	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	We need a place for dogs

Timestamp	What amenities would you prefer to see in an indoor recreation complex? Choose all you or someone in your household would utilize.	Please share any additional information you would like about your thoughts on new recreational amenities to your community.
	Swimming Pool / Lap Lanes, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Running/Walking Track	Don't just rely on this survey. There are many people, young and old, who may not know it exists or may not be able to access it. Manually canvass the local parks and other areas for additional responses. Also, maybe re-publish this survey or create another during the warmer months when people are actively using outdoor facilities. The responses will most likely be different.
12/3/2021 10:57:10		
12/3/2021 11:37:03	Youth Program Space (Summer Rec, Enrichement)	
12/3/2021 12:01:15	Fitness Equipment, Childcare, Youth Program Space (Summer Rec, Enrichement), Running/Walking Track	
12/3/2021 13:40:36	Fitness Equipment, Climbing Wall, Running/Walking Track	
12/3/2021 13:48:54	Fitness Equipment, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports	This area is severely lacking in outdoor public spaces. Bike trails / jumps, dog park, disc golf, athletic fields would be great on this site
12/3/2021 16:09:34	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	Our mini hawk program needs an indoor practice facility and this would be great for them so that the kids and coaches can work on perfecting their crafts.
12/3/2021 20:52:35	Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports	
12/3/2021 21:36:37	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Running/Walking Track	
12/4/2021 5:59:00	Fitness Equipment, Childcare, Youth Program Space (Summer Rec, Enrichement), Running/Walking Track	
12/4/2021 7:00:40	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports	
12/4/2021 12:32:44	Swimming Pool / Lap Lanes, Youth Program Space (Summer Rec, Enrichement)	
12/4/2021 19:29:05	Youth Program Space (Summer Rec, Enrichement), Sport Court Flooring for various sports	
12/6/2021 22:30:18	Youth Program Space (Summer Rec, Enrichement)	
12/9/2021 7:11:52	Swimming Pool / Lap Lanes, Fitness Equipment, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	It would be nice for our area to have something similar to the Kingston Rec Center. Our children would benefit from having a recreational facility close by.
12/13/2021 7:42:49	Swimming Pool / Lap Lanes, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports	
12/14/2021 11:22:17	Swimming Pool / Lap Lanes	Keep it so off road vehicles can not get access
12/14/2021 17:43:20	Swimming Pool / Lap Lanes, Fitness Equipment, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	in winter months, have an outdoor skating rink for ice skating/hockey. and in summer months the court can be used for street hockey
12/15/2021 19:25:59	Fitness Equipment, Running/Walking Track	
12/19/2021 19:12:48	Running/Walking Track	
12/22/2021 11:23:02	Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Running/Walking Track	We need dog parks!!!
12/31/2021 14:13:53	Swimming Pool / Lap Lanes, Group Fitness Class Space, Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	Please see above answer :)
1/9/2022 10:08:37	Swimming Pool / Lap Lanes, Fitness Equipment, Group Fitness Class Space, Childcare, Youth Program Space (Summer Rec, Enrichement), Climbing Wall, Sport Court Flooring for various sports, Running/Walking Track	

Your Residency Zip Code

174 responses



18634 – Nanticoke/Hanover area

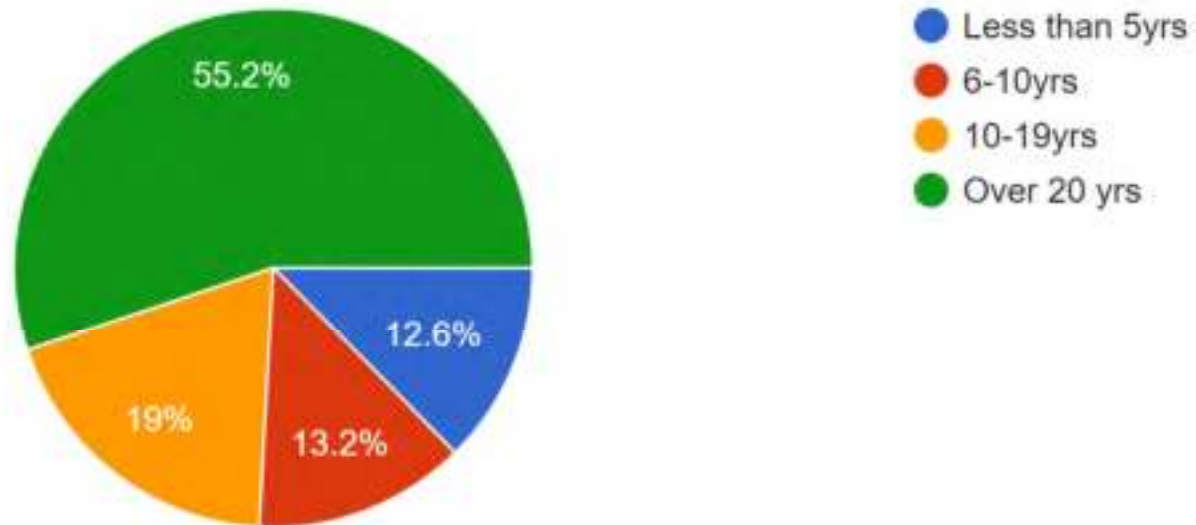
18702 – Wilkes-Barre

18706 – Wilkes-Barre/Hanover

18707 – Mountain Top/Hanover

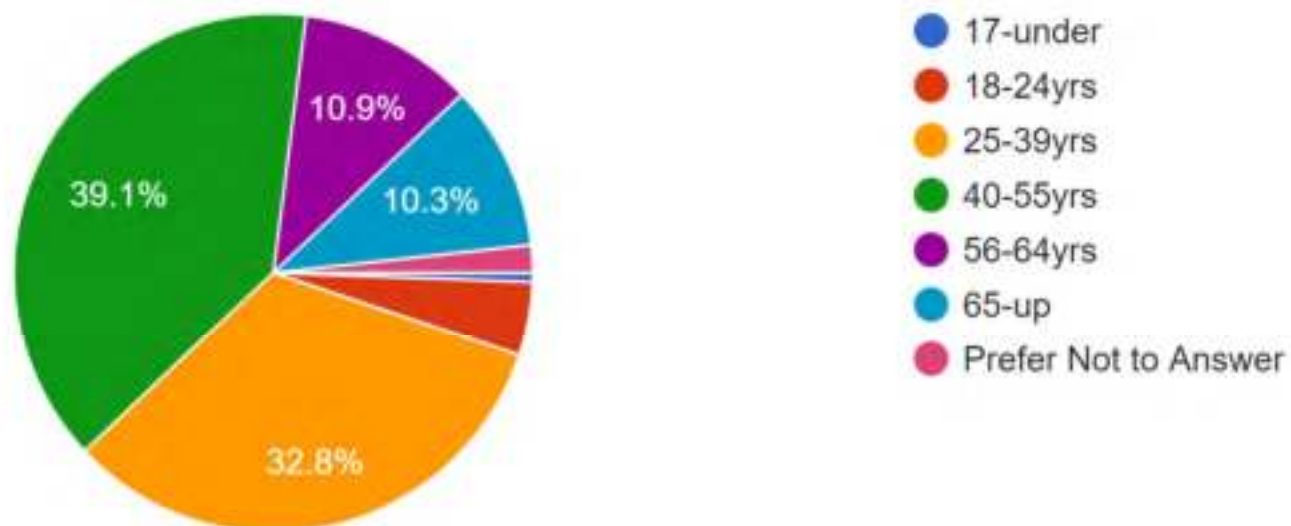
How long have you lived in your current community?

174 responses



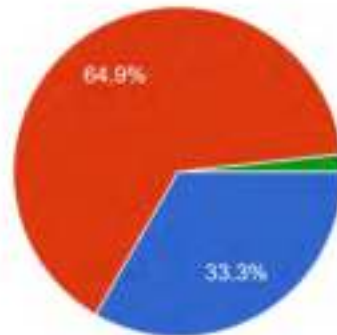
Your Age

174 responses



Gender

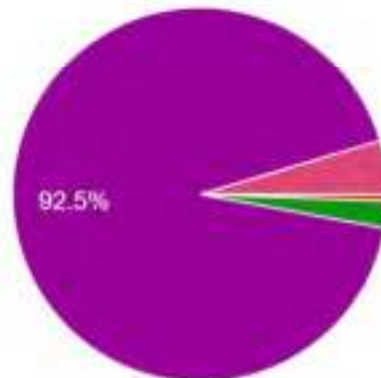
174 responses



- Male
- Female
- Non-Binary
- Prefer Not to Answer

What ethnicity to you recognize as?

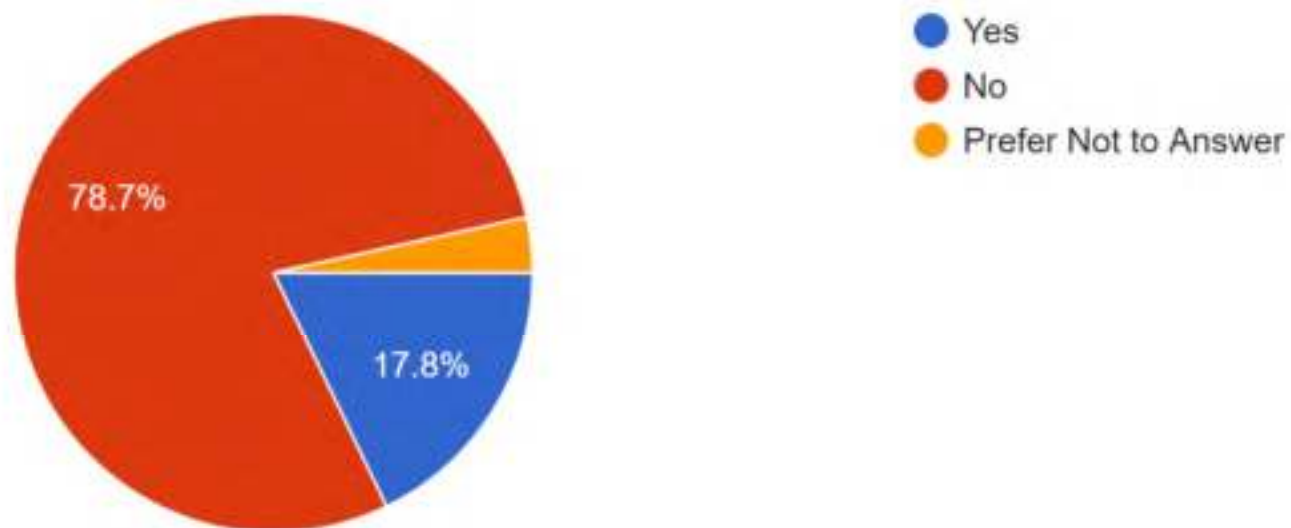
173 responses



- American Indian
- Asian American
- Black or African American
- Hispanic / Latino
- White
- Other
- Prefer Not to Answer

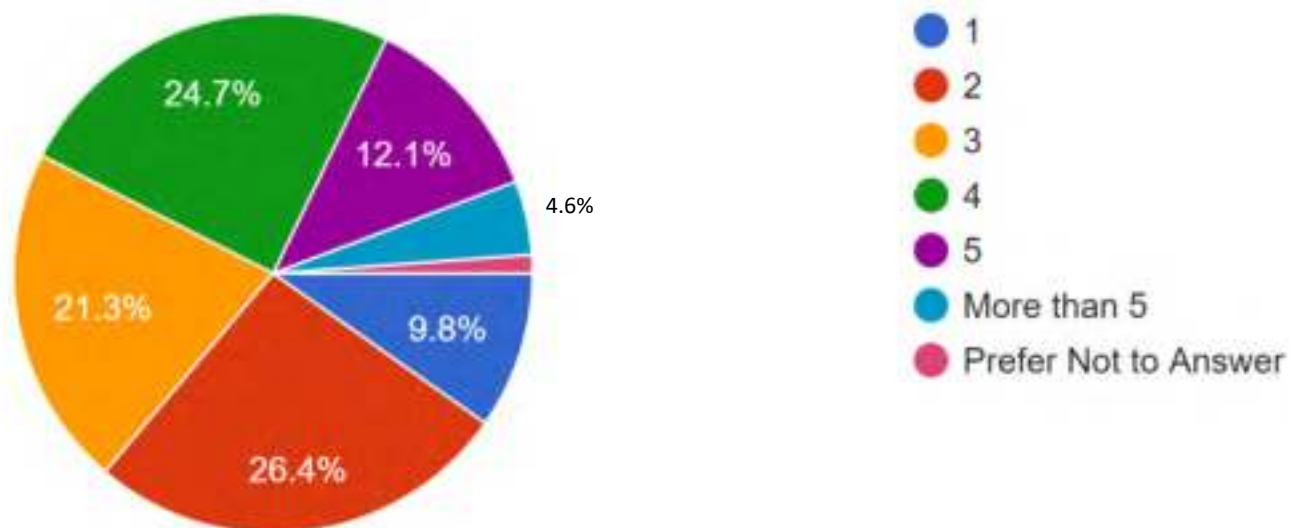
Does anyone in your household have a disability?

174 responses



Including yourself, how many members currently live in your household?

174 responses



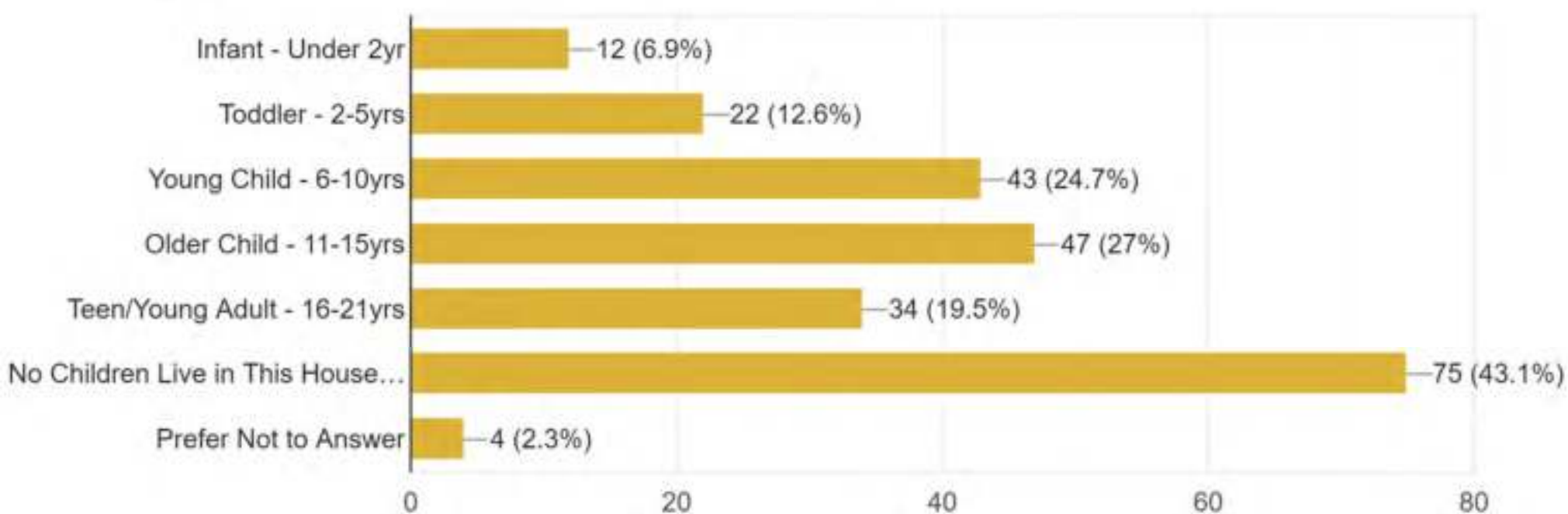
1-2 Family – 36.2%

3-4 Family – 46%

5-more Family – 16.7%

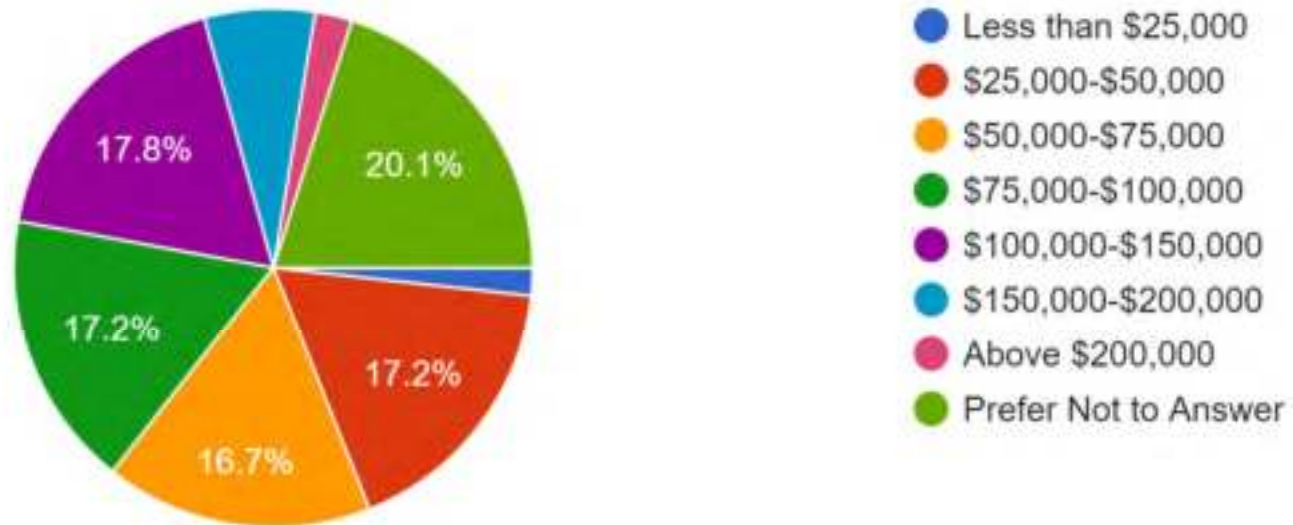
If your household has children currently living in it, what are their ages?

174 responses



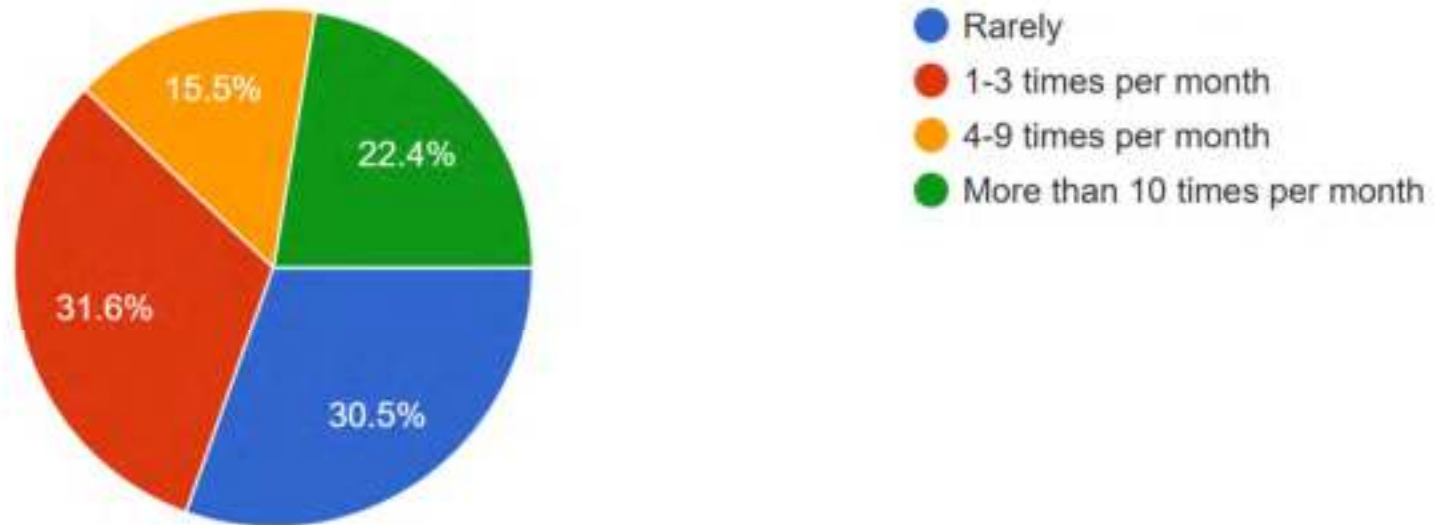
Household Income

174 responses

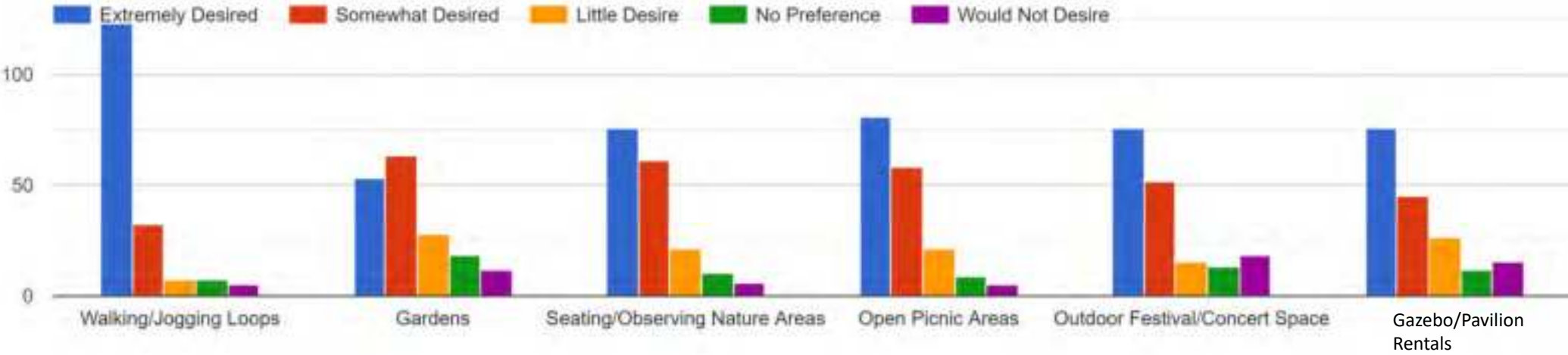


How often do you utilize current recreational parks/facilities in your community per month?

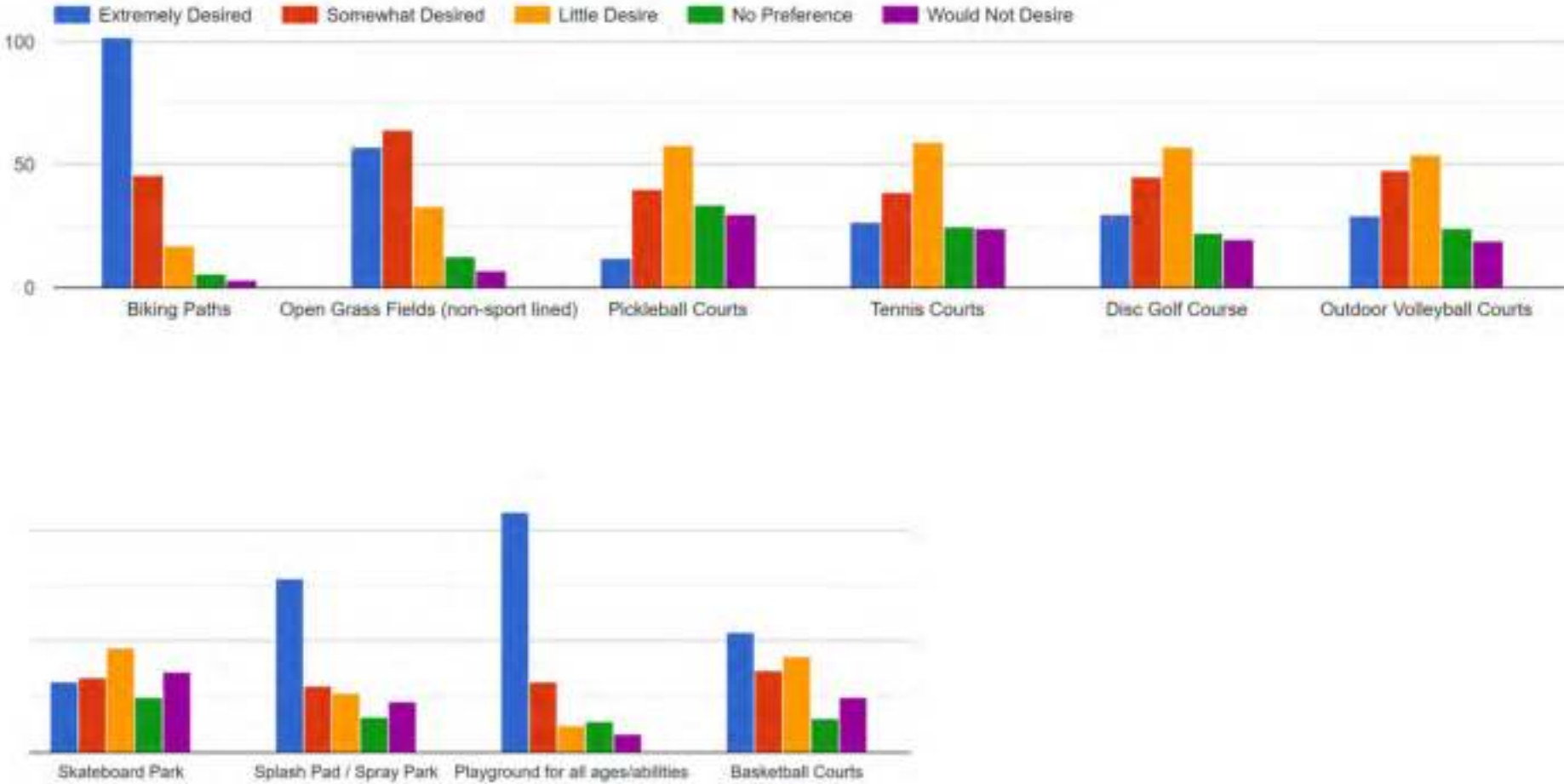
174 responses



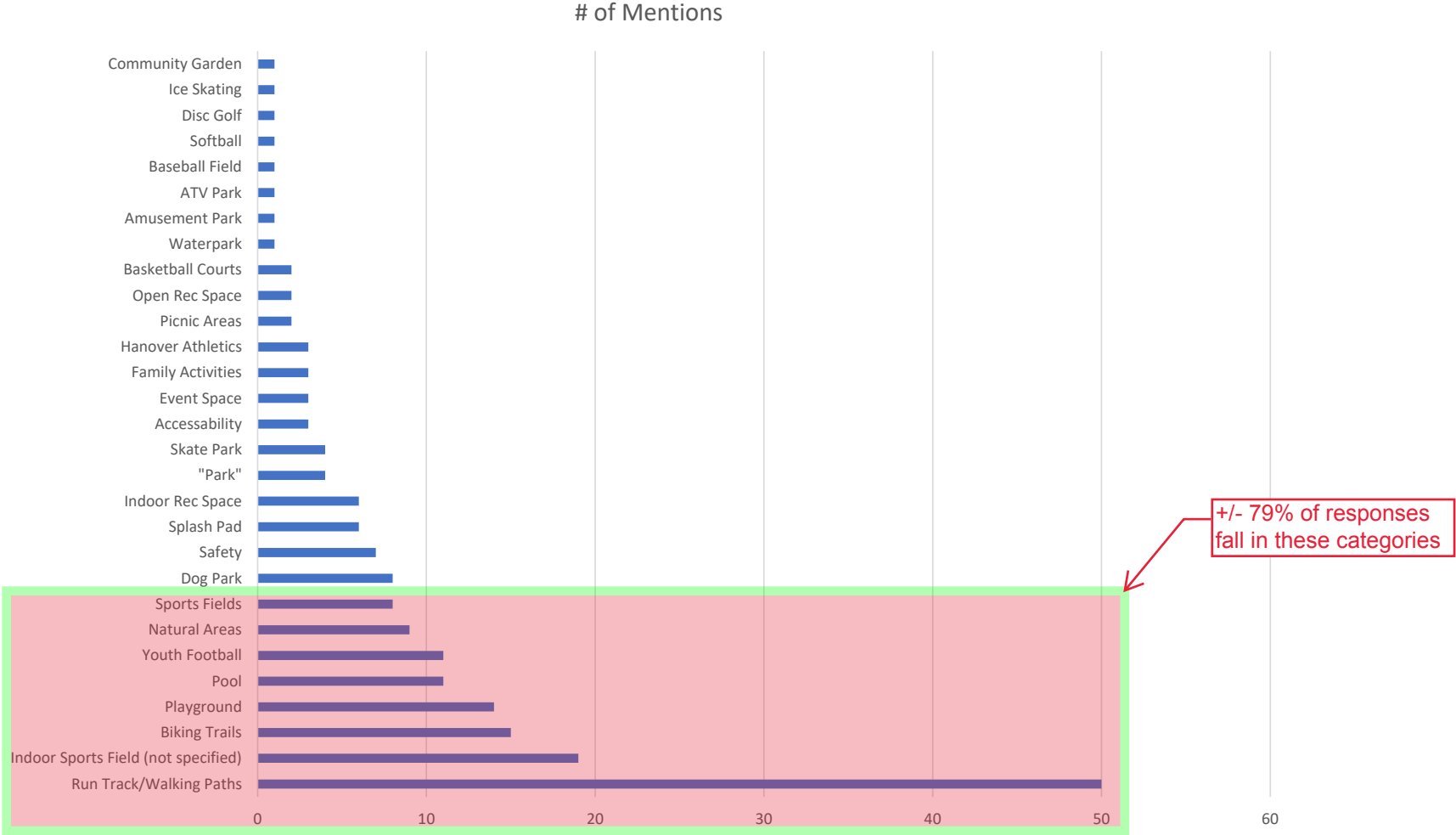
What Passive Recreational amenities would you most desire to have in your community?



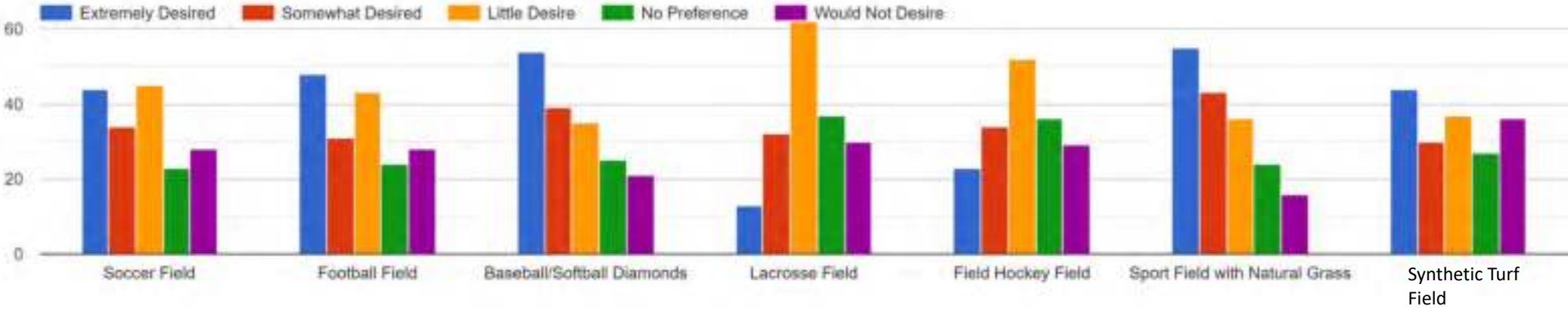
What Active Recreational amenities would you most desire to have in your community?



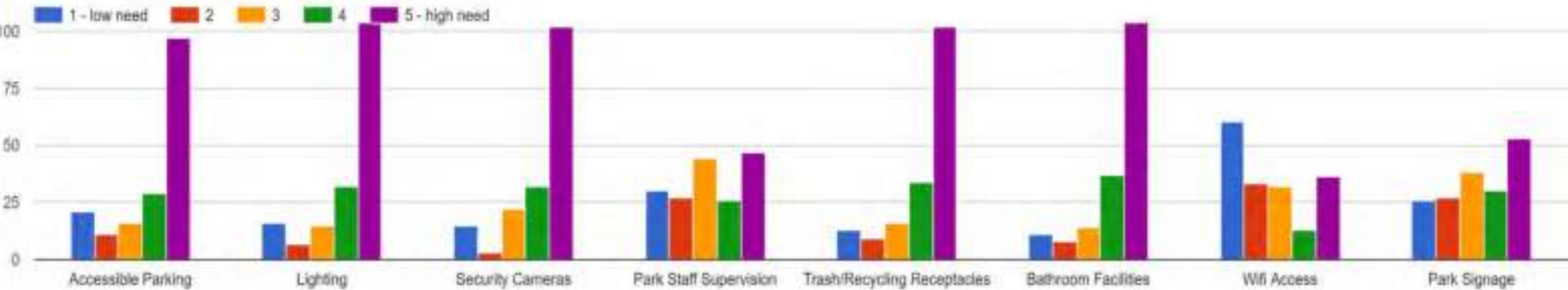
Out of all potential recreational/community uses, what would be your top priority (name one)?



What Active Outdoor Sport amenities would you most desire to have in your community?

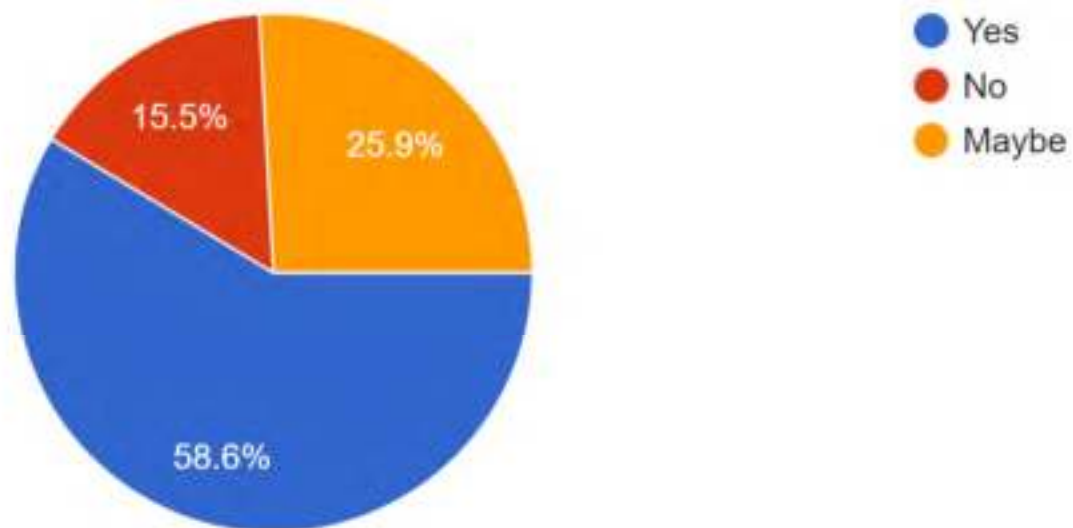


What amenities would encourage you to utilize a recreational space? 1 - low need to 5 - high need



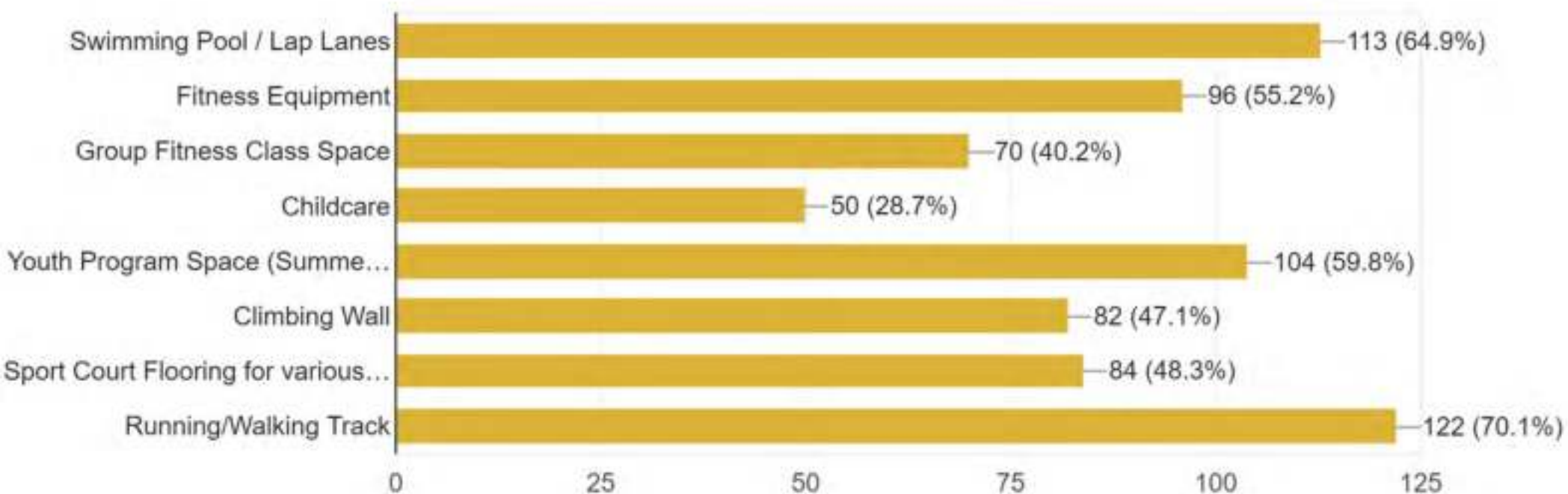
Should an Indoor Recreation Complex feasibility study be considered for this space?

174 responses



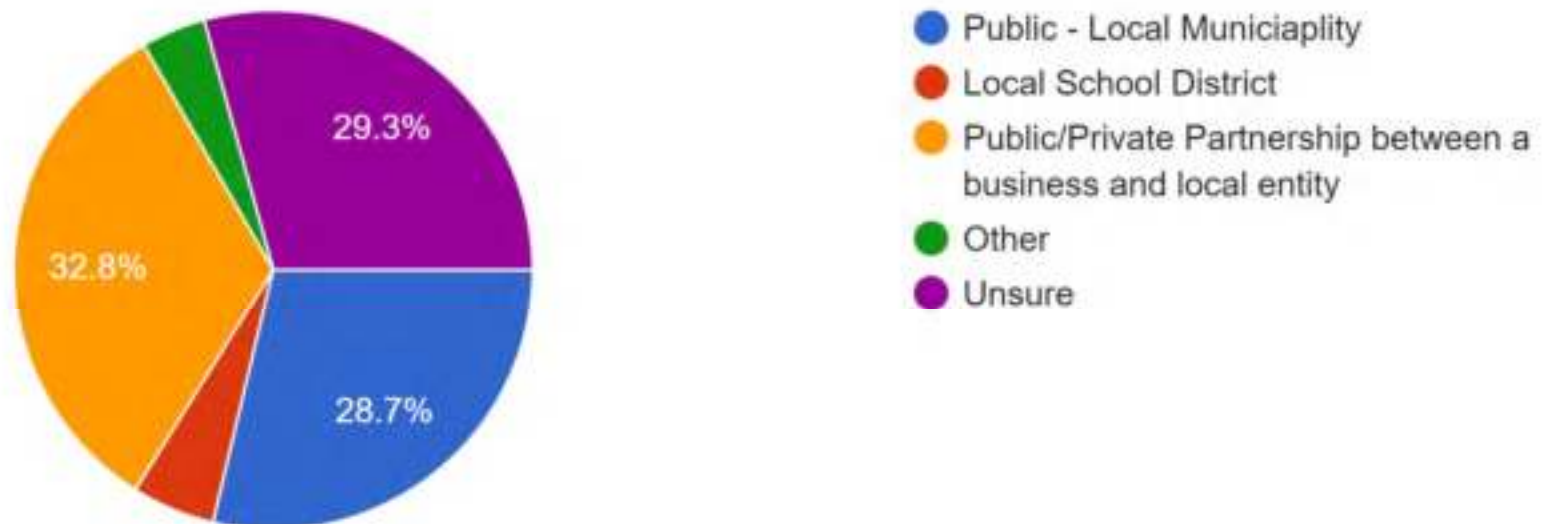
What amenities would you prefer to see in an indoor recreation complex? Choose all you or someone in your household would utilize.

174 responses

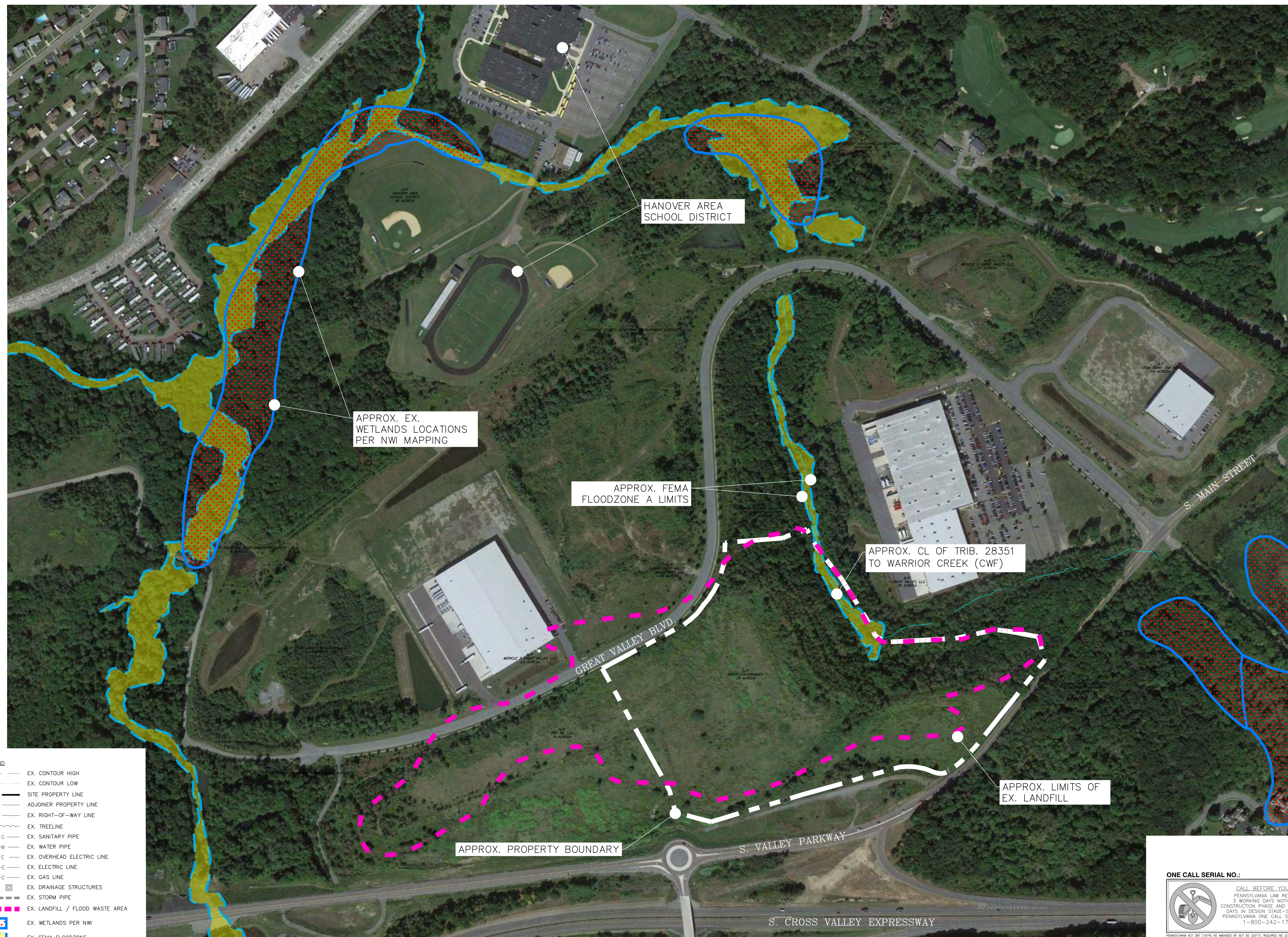


Who do you feel should have ownership and financial responsibility for this future park? (Currently the land is owned by the Earth Conservancy)

174 responses



Appendix B
Location Map &
Conceptual Site Plan



	EX. CONTOUR HIGH
	EX. CONTOUR LOW
	SITE PROPERTY LINE
	ADJOINER PROPERTY LINE
	EX. RIGHT-OF-WAY LINE
	EX. TREELINE
	EX. SANITARY PIPE
	EX. WATER PIPE
	EX. OVERHEAD ELECTRIC LINE
	EX. ELECTRIC LINE
	EX. GAS LINE
	EX. DRAINAGE STRUCTURES
	EX. STORM PIPE
	EX. LANDFILL / FLOOD WASTE AREA
	EX. WETLANDS PER NWI
	EX. FEMA FLOODZONE

A circular prohibition sign with a diagonal slash. Inside the circle are icons for a backhoe loader, a shovel, and a pile of dirt, indicating that excavation or heavy machinery use is prohibited.

CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES
3 WORKING DAYS NOTICE FOR
INSTRUCTION PHASE AND 10 WORKING
DAYS IN DESIGN STAGE—STOP CALL
PENNSYLVANIA ONE CALL SYSTEM, INC.
1-800-242-1776

PENNSYLVANIA ACT 287 (1974) AS AMENDED BY ACT 50 (2017), REQUIRES NO LESS THAN 3 WORKING DAYS NOTICE NOR MORE THAN 3 WORKING DAYS NOTICE FROM EXCAVATORS WHO ARE ABOUT TO: DIG, DRILL, BLAST, AUGER, BORE, GRADE, TRENCH OR DEMOLISH WHEN IN THE CONSTRUCTION PHASE. FOR THE PURPOSES OF THIS ACT, THE LOCATION OF ALL KNOWN AND UNKNOWN UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THE LOCATION MUST BE CONSIDERED APPROXIMATE. OTHER UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT SHOWN. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN ALL PHYSICAL LOCATIONS OF UTILITY LINES PRIOR TO THE TIME OF CONSTRUCTION. IN NO WAY SHALL THE CONTRACTOR HOLD THE SURVEYOR AND/OR ENGINEER RESPONSIBLE FOR ANY UTILITY LOCATION SHOWN ON THIS PLAN.



designBLD

Design Construction Community

54 Tunkhannock Ave.
Exeter, PA 18643
570-609-2600
designBLD.com

[illegible]

Applicant:
EARTH CONSERVANCY

Location:
HANOVER CROSSINGS
HANOVER LOT 7A
HANOVER TOWNSHIP
LUZERNE COUNTY, PA

Project Title: MASTER SITE DEVELOPMENT PLAN PROPOSED PUBLIC PARK PROJECT	Drawing Title: LOCATION MAP
--	--------------------------------

A horizontal scale bar with alternating black and white segments. Below the bar, the text "SCALE IN FEET" is centered. Underneath the bar, the numbers "0", "200", and "400" are positioned at the left, middle, and right ends respectively.

Drawn By: JAL	Checked By: WCL
---------------	-----------------

Date: 10/29/2021

Project No.:	D21019
--------------	--------

Drawing No.

C-002

Sheet 2 of 2



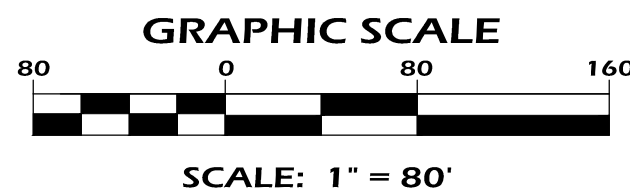
DESIGNING ENVIRONMENTS

2201 North Front Street, Suite 200
Harrisburg, PA 17110
P: 717.635.2835
www.kandwengineers.com



SKETCH PLAN A NOTES

- Three (3) Outdoor Grass Multi-Use Athletic Fields (225' X 360')
- ADA / Sensory Playground
- 1.6 Mile ADA Outdoor Walking / Fitness Trails
- Central Parking Area
- FUTURE PHASE - Indoor Facility: 102,000 SF (Two Baseball Infields, 200 M Indoor Track, Three Play Courts, Community Rooms, Restrooms, Offices)



This rendering is strictly a Conceptual Vision Plan. Final design will be dependent on site survey, programming, civil engineering, and regulatory requirements.

Conceptual Site Plan A

Hanover Lot 7A Master Plan

Hanover Township, Luzerne County, PA

November 16, 2022

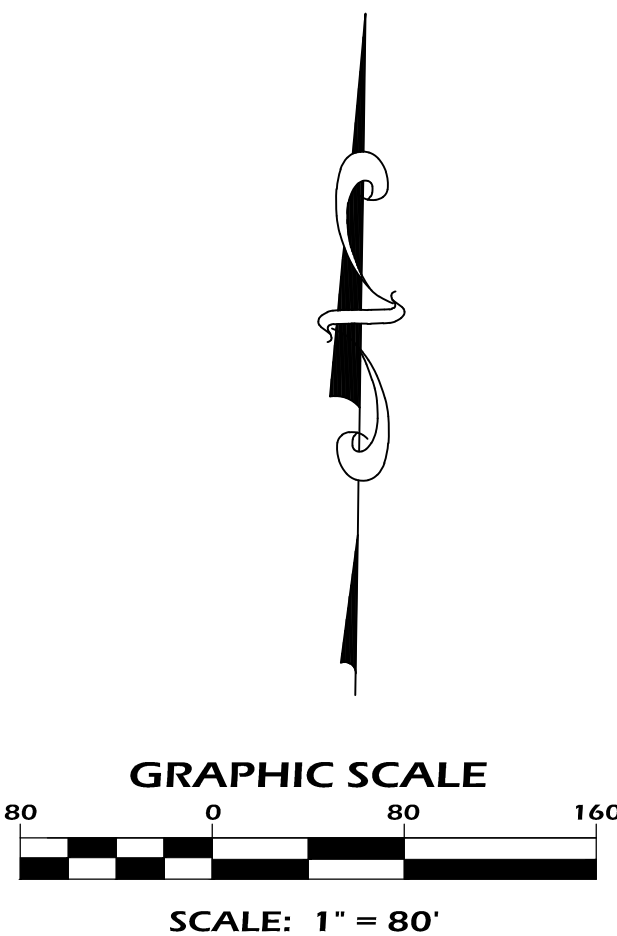


DESIGNING ENVIRONMENTS
2201 North Front Street, Suite 200
Harrisburg, PA 17110
P: 717.635.2835
www.kandwengineers.com



Conceptual Vision Plan B
Hanover Lot 7A Master Plan
Hanover Township, Luzerne County, PA

November 16, 2022



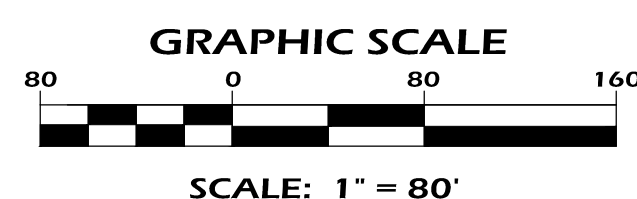
- SKETCH PLAN B NOTES
- Four Outdoor Natural Grass Multi-Use Athletic Fields (200' X 360', 180' X 330 (2)', 225' X 360')
 - 225' x 360' Synthetic Turf Multi-Use Field
 - Restroom / Concessions / Storage Building
 - ADA Accessible Playground
 - 1.7 Mile ADA Outdoor Walking / Fitness Trail
 - Dispersed Parking Areas

This rendering is strictly a Conceptual Vision Plan. Final design will be dependent on site survey, programming, civil engineering, and regulatory requirements.



DESIGNING ENVIRONMENTS

2201 North Front Street, Suite 200
Harrisburg, PA 17110
P: 717.635.2835
www.kandwengineers.com



This rendering is strictly a
Conceptual Vision Plan. Final design
will be dependent on site survey,
programming, civil engineering, and
regulatory requirements.



SKETCH PLAN C NOTES

- Two Outdoor Natural Grass Multi-Use Athletic Fields (200' X 360', 225' X 360')
- 1.7 Mile ADA Outdoor Walking / Fitness Trails
- ADA Accessible Playground
- Two Picnic Pavilions
- Amphitheater / Bandshell
- Restroom / Concessions / Storage Building

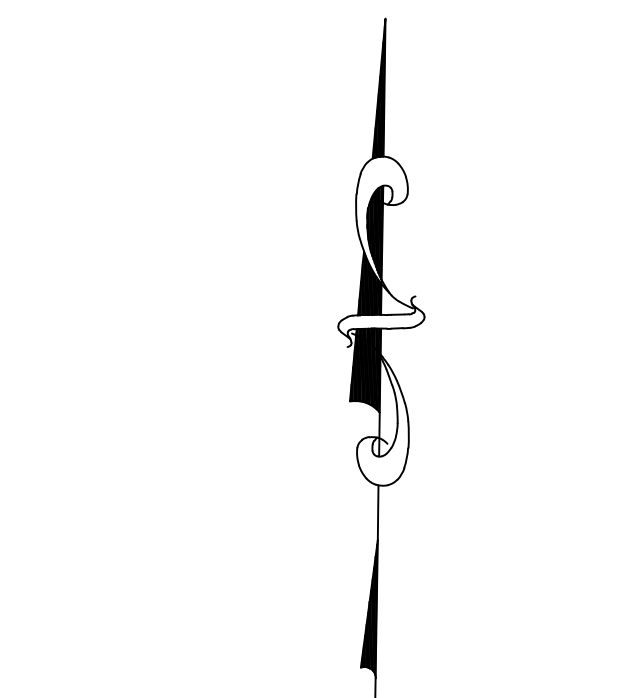
Conceptual Vision Plan C

Hanover Lot 7A Master Plan

Hanover Township, Luzerne County, PA November 16, 2022



DESIGNING ENVIRONMENTS
2201 North Front Street, Suite 200
Harrisburg, PA 17110
P: 717.635.2835
www.kandwengineers.com



- SKETCH PLAN D NOTES
- Large Grass Area for Passive Recreation
 - Natural Meadow Area
 - 2 Mile ADA Outdoor Walking / Fitness Trails
 - ADA Accessible Playground
 - Three Picnic Pavilions
 - Amphitheater / Bandshell
 - Restroom Building

This rendering is strictly a
Conceptual Vision Plan. Final design
will be dependent on site survey,
programming, civil engineering, and
regulatory requirements.

Conceptual Vision Plan D

Hanover Lot 7A Master Plan

Hanover Township, Luzerne County, PA November 16, 2022

Appendix C FEMA Map

For more on \$1 coins, see ["The National Debt: Spending Program Is Too Big to Ignore" \(p. 4\)](#) and ["The National Debt: Spending Program Is Too Big to Ignore" \(p. 4\)](#).

[illegible][illegible]

Members of the *Knights* were organized at each session into committees to help create solutions. The *Knights* also acted as informal ambassadors and helped to reintroduce newly returned Black University students. *Knights* met with other student leaders often and provided to the other University Black Organizations the opportunity.

Content setting up a Google Plus+ page may be prioritized by **Google+ admins**. While it's better to have a Page created by the Page owner, this may be important in those cases where the Page owner is not a person.

[illegible]

Small molecules in the γ -ray are attributed to the decay products of fission products of ^{235}U . These fission products tend to be enriched in elements with greater chemical activity in the acid solution. The distribution of chemical activity between the fission products, which decay in 1955 and 1956, and the fission products which decay in 1957 and 1958, is shown in Table 1. The fission products which decay in 1957 and 1958 are enriched in elements with greater chemical activity in the acid solution.

Wiley-Interscience Services
605 Third Avenue
New York, New York 10158
Library of Congress
510 North Capitol Street, NE
Washington, DC 20002

© 2005 by the author. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage or retrieval system, without permission in writing from the author.

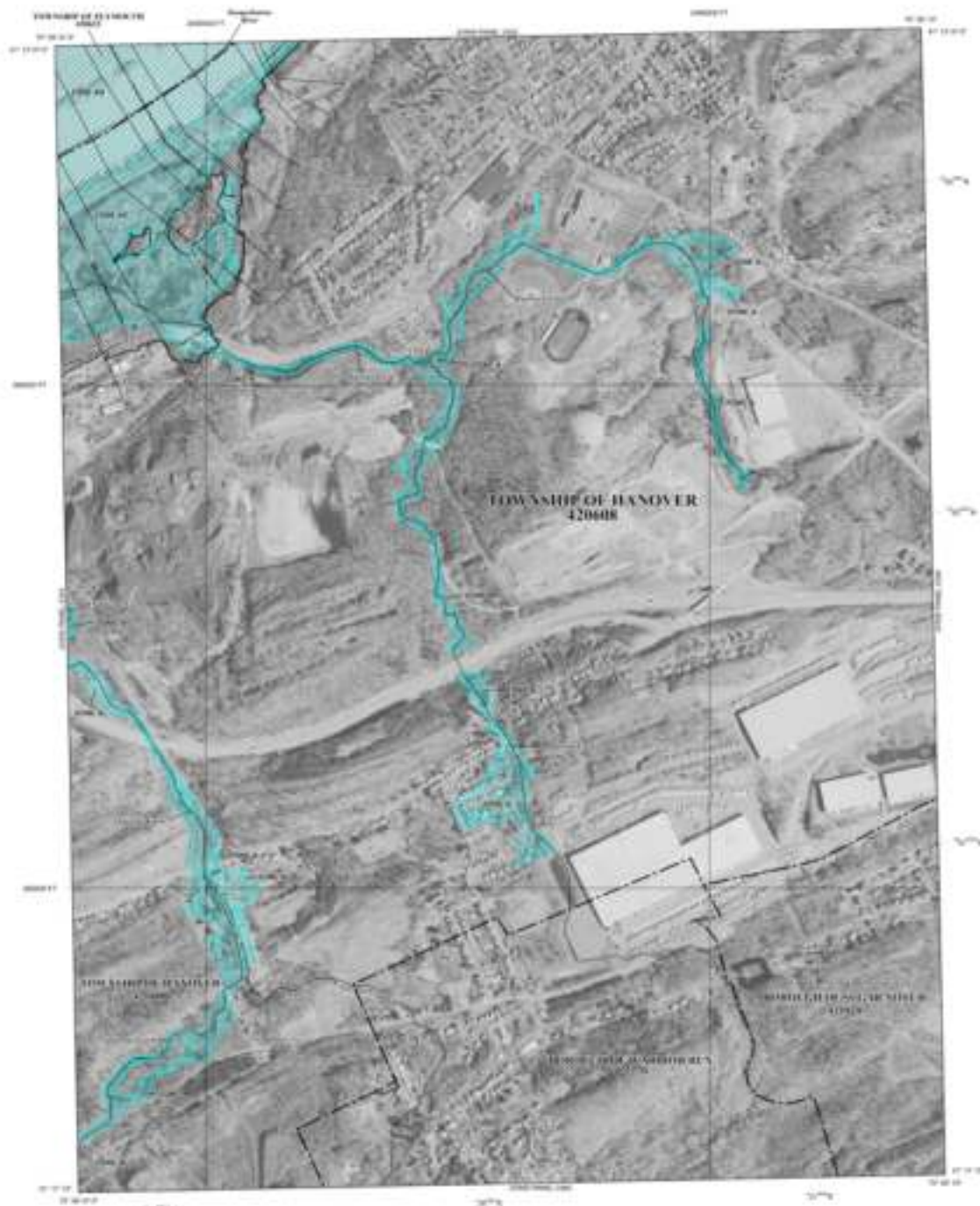
[illegible][illegible][illegible]

These data in the second column **may** refer to an unusual type of the study showing the types of the people, sometimes the statistical estimates and a listing of distributions that concern factors from insurance programs only for each community as well as a listing of the people in other each community.

[illegible]

For more information, please visit www.fishbase.org, visit the website of the National Marine Fisheries Service at www.nmfs.gov, and the [FishBase](http://www.fishbase.org) information database (www.fishbase.org) at <http://www.fishbase.org> or call toll-free 1-800-333-6148.

--	--



THE 1000TH ISSUE OF THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION

- [illegible]

10.329 **Aluminum sulfate** (see 10.328)

The University is the owner of all rights and the copyright material appearing here and may not be used without its permission.

- | | |
|---|----------------------------------|
|  | Orange (Solid black) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |
|  | Orange (White with black border) |

© 2007 Blackwell Publishing Ltd *Journal of Internal Medicine* 261: 103–110

- | | |
|---|---|
| <p> Home About Us Contact Us Privacy Policy Terms of Service </p> <p> Home About Us Contact Us Privacy Policy Terms of Service </p> | <p> Home About Us Contact Us Privacy Policy Terms of Service </p> <p> Home About Us Contact Us Privacy Policy Terms of Service </p> |
|---|---|

© 2005 Blackwell Publishing Ltd, *Journal of Internal Medicine* 258: 105–112

- Figure 1** Schematic representation of the experimental design. The study was divided into two main parts: a pre-test and a main test. The pre-test was conducted with 10 participants and aimed to determine the optimal number of trials (10, 20, 30, 40, 50, 60, 70, 80, 90, 100) for each condition. The main test was conducted with 20 participants and aimed to determine the optimal number of trials (10, 20, 30, 40, 50, 60, 70, 80, 90, 100) for each condition. The main test was divided into two sub-tests: a pre-test and a main test. The pre-test was conducted with 10 participants and aimed to determine the optimal number of trials (10, 20, 30, 40, 50, 60, 70, 80, 90, 100) for each condition. The main test was conducted with 10 participants and aimed to determine the optimal number of trials (10, 20, 30, 40, 50, 60, 70, 80, 90, 100) for each condition.

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 105–112



MAP SCALE 1:4000

25	2	20	27
----	---	----	----

NEP COURT STAGE

FIRM

LA ZERNE COUNTY,
MISSOURI, U.S.A.

U.S. Department of Justice
Federal Bureau of Investigation

© 2002 Blackwell Science Ltd
Journal of Internal Medicine 252: 395–402

Category	Number	Percentage	Total
Overall	100	100	100
Male	50	50	50
Female	50	50	50

1	10	10	10
2	10	10	10

Community Bulletin: Great about what is new in the world, according to the paper.

 MAP NUMBER
 0893-3200(200606)24:3;1-0

EFFECTIVE DATE
NOVEMBER 2, 2012

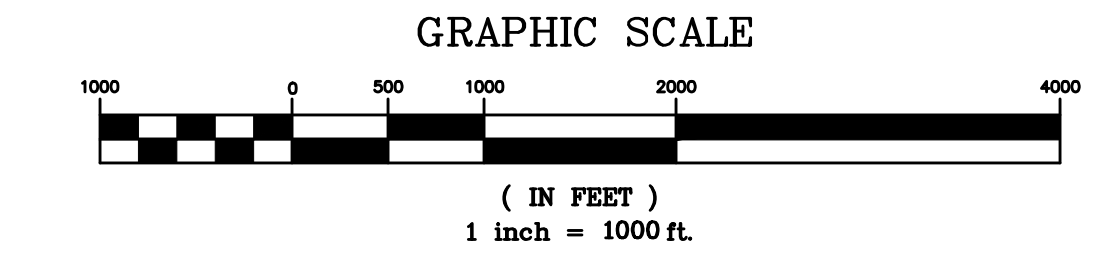
Robert Entompet, Management Systems

Appendix D Zoning Map

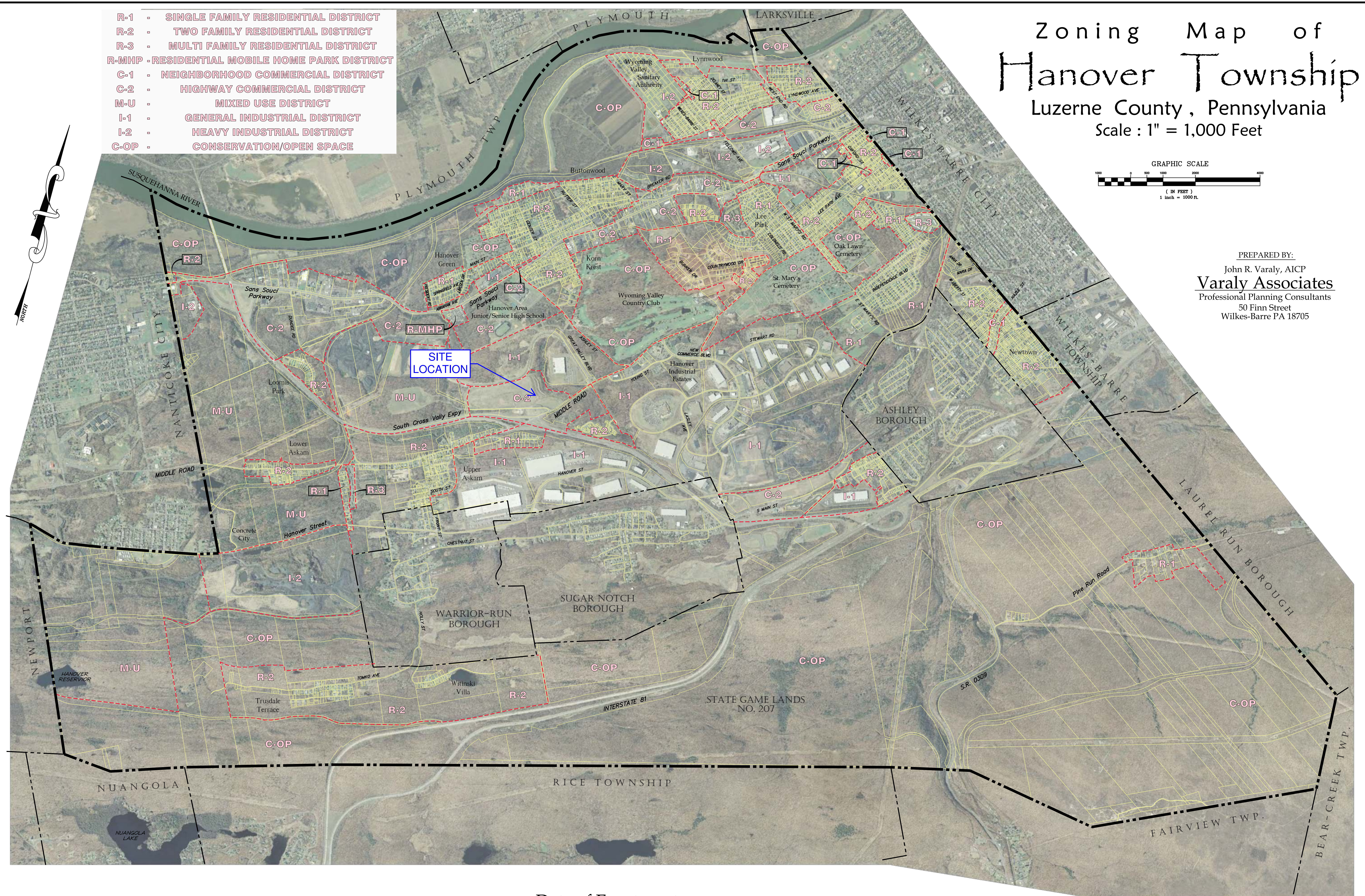
Zoning Map of Hanover Township

Luzerne County, Pennsylvania
Scale : 1" = 1,000 Feet

- R-1 - SINGLE FAMILY RESIDENTIAL DISTRICT
- R-2 - TWO FAMILY RESIDENTIAL DISTRICT
- R-3 - MULTI FAMILY RESIDENTIAL DISTRICT
- R-MHP - RESIDENTIAL MOBILE HOME PARK DISTRICT
- C-1 - NEIGHBORHOOD COMMERCIAL DISTRICT
- C-2 - HIGHWAY COMMERCIAL DISTRICT
- M-U - MIXED USE DISTRICT
- I-1 - GENERAL INDUSTRIAL DISTRICT
- I-2 - HEAVY INDUSTRIAL DISTRICT
- C-OP - CONSERVATION/OPEN SPACE



PREPARED BY:
John R. Varaly, AICP
Varaly Associates
Professional Planning Consultants
50 Finn Street
Wilkes-Barre PA 18705



Date of Enactment : _____

Appendix E Record Documents

JOAN HOGGARTH
LUZERNE COUNTY CLERK OF RECORDS
DIVISION OF JUDICIAL SERVICES AND RECORDS



Recorder of Deeds Division
Luzerne County Courthouse
200 N. River Street
Wilkes-Barre, PA 18711
(570) 825-1641

***RETURN DOCUMENT TO:**

B & D TECHNOLOGY, L.L.C.
354 VISTA DRIVE
SHAVERTOWN, PA 18708
PHONE 570-287-0392

Instrument Number - 201952300

Recorded On 9/25/2019 At 12:11:44 PM

*** Instrument Type - MAP**

Invoice Number - 1013887 User ID: CK

***Total Pages - 2**

*** Grantor - HANOVER EC 7 SUBD**

*** Grantee - HANOVER EC 7 SUBD**

*** Customer - B & D TECHNOLOGY, L.L.C.**

***FEES**

PA WRIT TAX	\$0.50
COUNTY RECORDING FEE	\$0.50
COUNTY FYLAR FEE	\$24.50
COUNTY ARCHIVES FEE	\$5.00
RECORDER'S ARCHIVES FEE	\$3.00
TOTAL PAID	\$33.50

Whereby CERTIFY that this document is
Recorded in the Recorder of Deeds Office
of Luzerne County, Pennsylvania



Joan Hoggarth
Joan Hoggarth
Clerk of Records
Recorder of Deeds Division

PARCEL IDENTIFICATION NUMBER

18-A-150

18-A-12

Total Property Identification Numbers: 2

THIS IS A CERTIFICATION PAGE

Do Not Detach

THIS PAGE IS NOW PART OF THIS LEGAL DOCUMENT

* - Information denoted by an asterisk may change during the verification process and may not be reflected on this page.

JOAN HOGGARTH
LUZERNE COUNTY CLERK OF RECORDS
DIVISION OF JUDICIAL SERVICES AND RECORDS



Recorder of Deeds Division
Luzerne County Courthouse
200 N. River Street
Wilkes-Barre, PA 18711
(570) 825-1641

***RETURN DOCUMENT TO:**

TERRANA LAW, P.C.
400 THIRD AVENUE
SUITE 117
KINGSTON, PA 18704
PHONE: 570-283-9500

Instrument Number - 201967016

Recorded On 12/10/2019 At 1:46:26 PM

- * Instrument Type - DEED EASEMENT
- Invoice Number - 1023437 User ID: BB
- * Grantor - PSP NE, LLC
- * Grantee - EARTH CONSERVANCY
- * Customer - TERRANA LAW, P.C.

***Total Pages - 27**

*** FEES**

PA WRIT TAX	\$0.50
JCS/ACCESS TO JUSTICE	\$40.25
COUNTY RECORDING FEE	\$62.00
COUNTY ARCHIVES FEE	\$2.00
RECORDER'S ARCHIVES FEE	\$3.00
TOTAL PAID	\$107.75

I hereby CERTIFY that this document is
Recorded in the Recorder of Deeds Office
of Luzerne County, Pennsylvania



Joan Hoggarth
Joan Hoggarth
Clerk of Records
Recorder of Deeds Division

PARCEL IDENTIFICATION NUMBER

J8-A-150

Total Property Identification Numbers: 1

THIS IS A CERTIFICATION PAGE

Do Not Detach

THIS PAGE IS NOW PART OF THIS LEGAL DOCUMENT

* - Information denoted by an asterisk may change during the verification process and may not be reflected on this page.

INSTRUMENT NUMBER - 201967016

BOOK: 3019 PAGE: 230536

DECLARATION OF ACCESS EASEMENT AGREEMENT

THIS DECLARATION OF ACCESS EASEMENT AGREEMENT ("Agreement") is made as of the 10th day of December, 2019 by and between PSP NE, LLC, a Pennsylvania Limited Liability Company with an address of 304 Wilkes-Barre Township Boulevard, Wilkes-Barre PA 18702 ("Grantor") and EARTH CONSERVANCY, a Pennsylvania Non-Profit with an address of 101 South Main Street, Ashley PA 18706 ("GRANTEE").

BACKGROUND

A. GRANTOR is the record owner of a tract of land located along Great Valley Boulevard in Hanover Township, Luzerne County, Pennsylvania as more fully described in Exhibit "A" ("Grantor Premises");

B. GRANTEE is the record owner of a tract of land contiguous to the eastern tract boundaries to, the Grantor Premises on Great Valley Boulevard in Hanover Township, Luzerne County, Pennsylvania as more fully described in Exhibit "B" ("Grantee Premises").

C. The parties intend to enter into this Agreement to grant and receive reciprocal access easements (the "Access Easement"), burdening both the Grantor Premises and Grantee Premises.

D. The Access Easements shall provide ingress and egress through lands of Grantor and Grantee from South Valley Parkway and Great Valley Boulevard, constructed by Grantor all as depicted and described on Exhibit "B". The easement shall be a shared access between Grantor and Grantee and shall be usable by their respective heirs, personal representatives, successors, assigns, employees, business invitees, tenants and their business invitees, employees, invited guests, contractors and others permitted by each of the respective parties (all combined the respective parties' "Beneficiaries") as described herein.

Intending to be legally bound, the parties agree and declare as follows:

1. Grant of Easements.

a. Access Easement. Grantor hereby grants and conveys to the Grantee and Grantee hereby conveys to Grantor a perpetual, free, uninterrupted, and reciprocal access easement over the Grantor and Grantee Premises as described on Exhibit "C-1" and as shown and depicted on Exhibit "C-2" as "ACCESS EASEMENT PLAN". Said easement shall be used to provide ingress, egress, and regress to and from the Grantor Premises and to and from the Grantee Premises and shall inure to the benefit of the Grantee and Grantee's Beneficiaries. Grantor and their Beneficiaries shall have mutual access to and use of the said easement.

2. Unimpeded Access. Except as specifically otherwise provided herein, no party hereto shall erect barriers, fences, curbs, or other obstructions to the free and unhampered use of the Access Easement, nor shall any automobiles, trucks, motor vehicles, or other personal

property, nor any building or other structure, be parked, stored, constructed, or permitted so as to interfere with the rights of ingress, egress, and regress granted in this Agreement.

3. No Parking Right. Parking located on each of Grantor Premises and the Grantee Premises (each parties "Parking Area") is reserved exclusively for the owner and occupants of the respective premises and their respective Beneficiaries. No easement or license, express or implied, is granted to the other or shall be deemed construed to be granted by this Agreement for parking on other parties premises, and such easement or license is expressly denied.

4. Costs, Construction, Maintenance, and Repair of Easement Area. Grantee shall be solely responsible for the cost and expense of construction of that portion of the access from the roundabout at Station #1119 +68.73 on the South Valley Parkway shown on Exhibit "D" to the southern end of the Access Easement. Grantor, its successors or assigns, as owner of the Grantor's Premises shall be solely responsible for the cost of continuing maintenance, snow and ice removal, and other costs for the Access Easement referenced in paragraph 1. a., b. and c., until such time when Grantee, its successors or assigns develops said Grantee Premises. Upon development, Grantor and Grantee (or beneficiary) shall share the cost of maintenance for the pro-rated area used by Grantee (or beneficiary).

5. Recording Fees and Transfer Tax. Notwithstanding anything to the contrary, any and all fees and realty transfer tax that may be imposed upon recording of this Agreement shall be split equally by the parties to this Agreement.

6. Insurance and Indemnity. Each party, their successors or assigns as owner of the Grantor Premises or the Grantee Premises, shall, at its own expense, maintain and keep in full force and effect comprehensive general liability insurance covering its use of the Access Easement. Each party, and their respective successors or assigns, as then owner of the Grantor Premises or Grantee Premises, shall indemnify, defend, and hold the others harmless from and against any third-party claim, cost, or liability to the extent the same arises out of use of the Access Easement by the other party or by any of their respective Beneficiaries of the other party.

7. No Dedication. This Agreement creates a private right of way and is not intended, and this instrument shall not be construed as, a dedication of any part of any party's property for public use.

8. Cure. Should any party breach any of its obligations hereunder, the party in breach shall promptly cure the breach upon receipt of written notice of the breach from another party. If a party in breach fails to promptly cure the breach upon receipt of notice, the party that provided the notice may cure the breach. No notice is required should the breach create an emergency or interfere with use of a lot. If a party incurs expense in curing a breach committed by another party, the party in breach shall pay all expense incurred by the party that cured the breach within thirty (30) days upon receipt of written evidence confirming the payment of such expenses.

9. Miscellaneous.

a. This Agreement does not create an association, partnership, joint venture, or a principal and agency relationship between the parties to this Agreement or their respective tenants, occupiers, employees, guests, contractors, or invitees.

b. No alleged waiver or revision of any provision of this Agreement shall be enforceable unless reduced to writing and signed by each of the parties. No valid waiver of any provision hereof shall be deemed to imply or constitute a further waiver thereof or of any other provision set forth herein.

c. Should any provision of this Agreement be declared invalid by a legislative, administrative, or judicial body of competent jurisdiction, the other provisions hereof shall remain in full force and effect and shall be unaffected by such declaration.

d. Except as otherwise provided herein, all notices and approvals required or permitted under this Agreement shall be served by certified mail, return receipt requested, or by deposit with a nationally recognized overnight delivery service to a party at the last known address of its principal place of business. Service shall be effective as of the date when mailed or deposited in accordance with this paragraph.

e. The easements granted in this Agreement shall run with the land in perpetuity.

f. Each party shall execute such other documents and take such further actions as may be reasonably requested by any other party to carry out the provisions and intent of this Agreement.

g. This Agreement shall be binding upon the parties and their successors and assigns, and all present and future owners of any property burdened or affected by the easement rights provided herein, and this Agreement is intended to be recorded in order to give notice to present and future owners of such property of their duties and responsibilities with respect to the easement rights granted in this Agreement.

i. In interpreting this Agreement, the singular includes the plural and the plural includes the singular.

10. This Agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Pennsylvania, choice of law principals notwithstanding.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first above written.

GRANTOR:

PSP NE, LLC

By: [Signature]
Name: RAYMOND A. HASSEY
Title: MANAGER

COMMONWEALTH OF PENNSYLVANIA)
COUNTY OF LUZERNE)

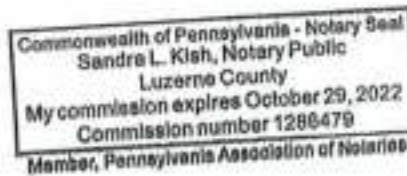
SS:

On this, the 10 day of December, 2019, before me, a Notary Public, personally appeared _____ known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument and acknowledged that he/she executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

[Signature]
Notary Public

My commission expires:



GRANTEE:

EARTH CONSERVANCY

By: 
Name: Michael A. Dziak
Title: President & CEO

COMMONWEALTH OF PENNSYLVANIA)
) SS:
COUNTY OF LUZERNE)

On this, the 10th day of December, 2019, before me, a Notary Public, the undersigned officer, in and for said State and County, personally appeared Michael A. Dziak, President & CEO of EARTH CONSERVANCY., a Pennsylvania Non-Profit, with whom I am presently acquainted, and that, as such officer, being duly authorized to do so, executed the foregoing document for the purposes therein contained on behalf of such limited partnership.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.


Notary Public

My commission expires:

Commonwealth of Pennsylvania - Notary Seal
Sandra L. Kish, Notary Public
Luzerne County
My commission expires October 29, 2022
Commission number 1266479
Member, Pennsylvania Association of Notaries

EXHIBIT "A"

GRANTOR PREMISES

ALL THAT CERTAIN piece or parcel of land situated in Hanover Township, Luzerne County, Commonwealth of Pennsylvania, bounded and described as follows:

BEGINNING at an iron pin corner situated along the Southerly right of way line of Great Valley Boulevard, said point being a common corner of lands of Earth Conservancy and lands now or formerly of Luzerne County Industrial Development Authority;

- 1) **THENCE** along said Southerly right of way line of Great Valley Boulevard a distance of eight hundred sixty-two and seventy- four hundredths (862.74') feet measured along an arc of a curve to the left having a radius of two thousand four hundred fifty and zero hundredths (2,450.00') feet and a chord bearing of North 72° 39' 58" East a distance of eight hundred fifty-eight and twenty-nine hundredths (858.29') feet to an iron pin corner;
- 2) **THENCE** along the same North 62° 34' 41" East a distance of three hundred sixty and thirty-five hundredths (360.35') feet to an iron pin corner;
- 3) **THENCE** through Lot #2 of the Earth Conservancy of a plot of lots hereinafter mentioned South 27° 25' 19" East a distance of six hundred twenty-seven and nineteen hundredths (627.19') feet to an iron pin corner;
- 4) **THENCE** through the same South 07° 27' 49" East a distance of one hundred thirty and zero hundredths (130.00') feet to an iron pin corner;
- 5) **THENCE** along the Northerly right of way line of a roundabout for the South Valley Parkway (S.R. 3046) South 82° 32' 11" West a distance of forty-five and twenty-six hundredths (45.26') feet to a point;
- 6) **THENCE** along the same South 50° 02' 05" West a distance of sixty-five and fourteen hundredths (65.14') feet to a point;
- 7) **THENCE** along the same South 71° 13' 36" West a distance of fifty and ninety-nine hundredths (50.99') feet to a point;
- 8) **THENCE** along the same South 07° 27' 49" East a distance of thirty and zero hundredths (30.00') feet to a point;
- 9) **THENCE** along the Northerly right of way line of South Valley Parkway (S.R. 3046) South 82° 32' 11" West a distance of five hundred ninety-nine and sixty-one hundredths (599.61') feet to an iron pin corner;

- 10) THENCE along the same South 85° 08' 26" West a distance of two hundred twenty and ten hundredths (220.10') feet to an iron pin corner;
- 11) THENCE along the same South 82° 32' 11" West a distance of four hundred fifty-nine and sixty-one hundredths (459.61') feet to an iron pin corner;
- 12) THENCE along said lands now or formerly of Luzerne County Industrial Development Authority North 25° 30' 48" West a distance of ninety-seven and sixty-three hundredths (97.63') feet to a point;
- 13) THENCE along the same a distance of two hundred twelve and three hundredths (212.03') feet measured along an arc of a curve to the right having a radius of three hundred thirty and zero hundredths (330.00') feet and a chord bearing of North 07° 06' 24" West a distance of two hundred eight and forty hundredths (208.40') feet to a point;
- 14) THENCE along the same North 11° 18' 00" East a distance of one hundred eight and six hundredths (108.06') feet to a point;
- 15) THENCE along the same a distance of fifty-four and ninety-eight hundredths (54.98') feet measured along an arc of a curve to the left having a radius of one hundred eighty and zero hundredths (180.00') feet and a chord bearing of North 02° 33' 00" East a distance of fifty-four and seventy-six hundredths (54.76') feet to a point;
- 16) THENCE along the same North 06° 12' 00" West a distance of forty-two and thirty-two hundredths (42.32') feet to a point;
- 17) THENCE along the same a distance of twenty-two and eighty-three hundredths (22.83') feet measured along an arc of a curve to the right having a radius of fifteen and zero hundredths (15.00') feet and a chord bearing of North 37° 36' 35" East a distance of twenty and sixty-nine hundredths (20.69') feet to a point, the place of Beginning.

CONTAINING: A total area of 850,905 sq. ft. or 19.53 acres.

BEING part of the same premises Quitclaimed by Robert W. Cleveland, Sr., and Anita H. Cleveland, husband and wife; Robert W. Cleveland, Jr., and Carolyn W. Cleveland, husband and wife; C.E. Thomas Cleveland, and Barbara S. Cleveland, husband and wife; Jay W. Cleveland and William T. Kirchoff and Alvina D. Cleveland, as administrators of the Estate of Royal E. Cleveland; Alvina D. Cleveland, widow; Jay W. Cleveland and Sandra L. Cleveland, husband and wife; William T. Kirchoff and Jean C. Kirchoff, husband and wife to James J. Haggerty, Trustee for Blue Coal Corporation by Deed dated November 22 1983; and recorded in aforesaid Office for the Recording of Deeds etc. in Deed Book No. 2119 Page 993 et seq;

BEING a portion of land as conveyed to Earth Conservancy by Frank J. McDonnell, Trustee in bankruptcy for Blue Coal Corporation and Glen Nan, Inc. by a deed dated the 18th day of August 1994 and Recorded in Deed Book No. 2501 Page 831.

ALSO BEING part of Lot #2 of the Hanover Crossings Phase 2 Recorded in Map Book No. 185 Page 6 as prepared by Borton Lawson Engineering.

ALSO BEING all of New Lot 1 of the Minor Subdivision Final Plan, E.C.-Hanover 7 as shown on Drawing No. PSP-1 dated 8/19/2019 as revised 9/02/2019 and 9/04/2019 and recorded in Luzerne County Map Book No. 347 Page 55.

PROPERTY IDENTIFICATION NUMBER: 25-J8 00A 150

CERTIFIED PROPERTY IDENTIFICATION NUMBER
MUNICIPALITY Hanover Twp
P/O PIN MAP 58 BLOCK A LOT 150
TRANSFER _____ DIVISION _____
DATE 12-10-19 AD
MAPPING CLERK

EXHIBIT "B"

GRANTEE PREMISES

THIS DEED

Made this 25th day of JUNE, in the year Two Thousand and Eighteen (2018)

BETWEEN **EARTH CONSERVANCY**, a Pennsylvania non-profit corporation, with a place of business at 101 South Main Street, Ashley, Luzerne County, PA, 18706

GRANTOR

and

EARTH CONSERVANCY, a Pennsylvania non-profit corporation, with a place of business at 101 South Main Street, Ashley, Luzerne County, PA, 18706

GRANTEE

WITNESSETH, That in consideration of **(\$1.00) One Dollar** in hand paid, the receipt whereof is hereby acknowledged, the said Grantor does hereby release and Quit-Claim to the said Grantees, their heirs, successors and assigns,

ALL THAT CERTAIN pieces or parcels of land situated in Hanover Township, Luzerne County, Commonwealth of Pennsylvania, bounded and described as follows:

New lot #1

BEGINNING in the easterly right-of-way line of Great Valley Boulevard at a common corner of Luzerne County Industrial Development Authority Lot #3 and Earth Conservancy Lot #2 as shown on the Plot of Lots known as Hanover Crossing Phase 2 Proposed Property Plan hereinafter referred to:

THENCE along the division line between Luzerne County Industrial Development Authority Lot #3 and Earth Conservancy Lot #2 the following nine (9) courses and distances:

- 1) North eighty-six degrees fifty-six minutes fifty-eight seconds East (N 86° 55' 58" E) two hundred twelve and eighty-eight one-hundredths (212.88) feet;
- 2) North sixty-nine degrees twenty-six minutes thirty-eight seconds East (N 69° 26' 38" E) one hundred twenty and thirty-seven one-hundredths (120.37) feet;
- 3) South thirty-three degrees twenty-nine minutes forty-three seconds East (S 33° 29' 43" E) four hundred seven and seventy-one one-hundredths (407.71) feet;

- 4) South twenty-five degrees one minute one second East (S 25° 01' 01" E) one hundred sixty-five and fifty-three one-hundredths (165.53) feet;
- 5) South fifty-three degrees seven minutes forty-eight seconds East (S 53° 07' 48" E) fifty and zero one-hundredths (50.00) feet;
- 6) North eighty-eight degrees ten minutes fifty-four seconds East (N 88° 10' 54" E) three hundred fifteen and sixteen one-hundredths (315.16) feet;
- 7) North seventy-eight degrees six minutes forty-one seconds East (N 78° 06' 41" E) one hundred ninety-four and seventeen one-hundredths (194.17) feet;
- 8) South eighty-one degrees one minute thirty-nine seconds East (S 81° 01' 39" E) one hundred ninety-two and thirty-five one-hundredths (192.35) feet;
- 9) South sixteen degrees seven minutes thirty-five seconds East (S 16° 07' 35" E) ninety-two and seventy-nine one-hundredths (92.79) feet;

THENCE along the northerly right-of-way line of S.R. 2008 (Middle Road) the following two (2) courses and distances:

- 1) South thirty-eight degrees thirty-four minutes fifteen seconds West (S 38° 34' 15" W) three hundred eighty-nine and sixty-nine one-hundredths (389.69) feet;
- 2) By a curve to the right having a radius of seven hundred ninety-three and forty-one one-hundredths (793.41) feet, an arc length of one hundred sixty-two and seventy one-hundredths (162.70) feet and having a chord bearing and distance of South forty-four degrees twenty-six minutes forty-two seconds West (S 44° 26' 42" W) one hundred sixty-two and forty-two one-hundredths (162.42) feet;

THENCE along the division line between Lot #1 and Lot #2 of Earth Conservancy the following six (6) courses and distances:

- 1) By a curve to the right having a radius of one hundred and zero one-hundredths (100.00) feet, an arc length of one hundred five and three one-hundredths (105.03) feet and having a chord bearing and distance of South eighty degrees twenty-three minutes fifty-eight seconds West (S 80° 23' 58" W) one hundred and twenty-seven one-hundredths (100.27) feet;
- 2) By a curve to the left having a radius of three hundred twenty-one and zero one-hundredths (321.00) feet, an arc length of two hundred and ninety one-hundredths (200.90) feet and having a chord bearing and distance of North eighty-seven degrees twenty-six minutes four seconds West (N 87° 26' 04" W) one hundred ninety-seven and sixty-four one-hundredths (197.64) feet;
- 3) South seventy-four degrees thirty-eight minutes seventeen seconds West (S 74° 38' 17" W) three hundred fifty-one and fifty-six one-hundredths (351.56) feet;

- 4) South seventy-three degrees six minutes forty seconds West (S 73° 06' 40" W) five hundred eighty-seven and seventy-four one-hundredths (587.74) feet;
- 5) South seventy-three degrees forty-one minutes fifty-two seconds West (S 73° 41' 52" W) four hundred eighteen and eighty-eight one-hundredths (418.88) feet;
- 6) South seventy-four degrees zero minutes fifty-six seconds West (S 74° 00' 56" W) nine hundred eighty-eight and eighty-five one-hundredths (988.85) feet;

THENCE along the division line between Earth Conservancy Lot #2 and Luzerne County Industrial Development Authority Lot #7 the following six (6) courses and distances:

- 1) North twenty-five degrees thirty minutes forty-eight seconds West (N 25° 30' 48" W) two hundred eighty-five and seventeen one-hundredths (285.17) feet;
- 2) By a curve to the right having a radius of three hundred thirty and zero one-hundredths (330.00) feet, an arc length of two hundred twelve and three one-hundredths (212.03) feet, and having a chord bearing and distance of North seven degrees six minutes twenty-four seconds West (N 07° 06' 24" W) two hundred eight and forty one-hundredths (208.40) feet;
- 3) North eleven degrees eighteen minutes zero seconds East (N 11° 18' 00" E) one hundred eight and six one-hundredths (108.06) feet;
- 4) By a curve to the left having a radius of one hundred eighty and zero one-hundredths (180.00) feet, an arc length of fifty-four and ninety-eight one-hundredths (54.98) feet and having a chord bearing and distance of North two degrees thirty-three minutes zero seconds East (N 02° 33' 00" E) fifty-four and seventy-six one-hundredths (54.76) feet;
- 5) North six degrees twelve minutes zero seconds West (N 06° 12' 00" W) forty-two and thirty-two one-hundredths (42.32) feet;
- 6) By a curve to the right having a radius of fifteen and zero one-hundredths (15.00) feet, an arc length of twenty-three and twenty-nine one-hundredths (23.29) feet and having a chord bearing and distance of North thirty-eight degrees sixteen minutes thirty-seven seconds East (N 38° 16' 37" E) twenty-one and two one-hundredths (21.02) feet;

THENCE along the aforementioned right-of-way line of Great Valley Boulevard the following three (3) courses and distances.

- 1) By a curve to the left having a radius of two thousand four hundred fifty and zero one-hundredths (2,450.00) feet, an arc length of eight hundred sixty-two and seventy-four one-hundredths (862.74) feet and having a chord bearing and distance of North seventy-two degrees thirty-nine minutes fifty-eight seconds East (N 72° 39' 58" E) eight hundred fifty-eight and twenty-nine one-hundredths (858.29) feet;

- 2) North sixty-two degrees thirty-four minutes forty-one seconds East (N 62° 34' 41" E) six hundred and eighty-four one-hundredths (800.84) feet;
- 3) By a curve to the left having a radius of five hundred fifty and zero one-hundredths (550.00) feet, an arc length of five hundred fourteen and thirteen one-hundredths (514.13) feet and having a chord bearing and distance of North thirty-five degrees forty-seven minutes fifty-five seconds East (N 35° 47' 55" E) four hundred ninety-five and sixty-two one-hundredths (495.62) feet to the PLACE OF BEGINNING.

CONTAINING: 50.81 acres of land, more or less.

BEING all of Earth Conservancy New Lot 1 as shown on the Plot of Lots known as Hanover Crossings Phase 2 Proposed Property Conveyances plan and recorded in Map Book 185 Page 10

BEING also a parcel of land deeded to Earth Conservancy by The Greater Wilkes-Barre Development Corporation successor to The Greater Wilkes-Barre Industrial Fund, Inc. and recorded in Deed Book 3006 Page 113636

BEING also a parcel of land deeded to Earth Conservancy by The Greater Wilkes-Barre Development Corporation successor to The Greater Wilkes-Barre Industrial Fund, Inc. and recorded in Deed Book 3006 Page 113648

BEING also a portion of the Biddle Lands Tract No. 30 as conveyed to Glen Alden Coal Company, later known as Glen Alden Corporation, by Lehigh and Wilkes-Barre Coal Company, by Deed dated December 31, 1928 and recorded on the same date in the office for the Recording of Deeds, etc., in and for Luzerne County, Pennsylvania, in Deed Book No. 694, Page 1, et seq;

BEING also a portion of the surface Quitclaimed to Blue Coal Corporation, by Glen Alden Corporation, by Deed dated February 18, 1966, and recorded on the same date in the aforesaid Office in Deed Book No. 1586, Page 92, et seq;

BEING also a portion of the surface Quitclaimed to Country Club Hill Development Company, Inc., by Blue Coal Corporation by Deed dated December 18, 1972 and recorded in aforesaid Office for the Recording of Deeds in Deed Book No. 1770 Page 826, et seq;

BEING also the same premises Quitclaimed by Country Club Hill Development Company, Inc., to Robert W. Cleveland, Sr., Robert W. Cleveland, Jr., C.E. Thomas Cleveland, Royal E. Cleveland, Jay W. Cleveland and William T. Kirchoff by Deed dated September 28, 1973, and recorded on the same date in the aforesaid Office for the recording of Deeds etc. in Deed Book No. 1799, Page 888, et seq;

BEING also the same premises Quitclaimed by Robert W. Cleveland, Sr., and Anita H. Cleveland, husband and wife; Robert W. Cleveland, Jr., and Carolyn W. Cleveland, husband and wife; C.E. Thomas Cleveland, and Barbara S. Cleveland, husband and wife; Jay W. Cleveland and William T. Kirchoff and Alvina D Cleveland, as administrators of the Estate of Royal E. Cleveland; Alvina D. Cleveland, widow; Jay W. Cleveland and Sandra L. Cleveland, husband and wife; William T. Kirchoff and Jean C. Kirchoff, husband and wife to James J.

Haggerty, Trustee for Blue Coal Corporation by Deed dated November 22, 1983; and Recorded in aforesaid Office for the Recording of Deeds etc. In Deed Book No. 2119 Page 996 et seq;

BEING also a portion of the surface Deeded to Earth Conservancy by Frank J. McDonnell, Trustee for Blue Coal Corporation and Glen Nan Inc. by Deed dated August 18, 1994, and recorded in aforesaid Office for the Recording of Deeds etc. In Deed book No. 2501, Page 875 et seq;

UNDER AND SUBJECT to and together with the same reservations, conditions, restrictions, covenants, exceptions and easements as appear in the prior chain of title.

PROPERTY IDENTIFICATION NUMBER: 25 J800A112001

25- J8 - A -140
25- J8 - A -141

CERTIFIED PROPERTY IDENTIFICATION NUMBER
MUNICIPALITY Hanover Twp
PIN MAP 58 BLOCK A LOT 112-001
TRANSFER _____ DIVISION _____
DATE 6-25-18 _____
MAPPING CLERK _____

CERTIFIED PROPERTY IDENTIFICATION NUMBER
MUNICIPALITY Hanover Twp
PIN MAP 58 BLOCK A LOT 140, 141
TRANSFER _____ DIVISION _____
DATE 6-25-18 _____
MAPPING CLERK _____

THIS DOCUMENT MAY NOT SELL, CONVEY, TRANSFER, INCLUDE OR INSURE THE TITLE TO THE COAL AND RIGHTS OF SUPPORT UNDERNEATH THE SURFACE LAND DESCRIBED OR REFERRED TO HEREIN AND THE OWNER OR OWNERS OF SUCH COAL MAY HAVE THE COMPLETE LEGAL RIGHT TO REMOVE ALL OF SUCH COAL AND, IN THAT CONNECTION, DAMAGE MAY RESULT TO THE SURFACE OF THE LAND AND ANY HOUSE, BUILDING OR OTHER STRUCTURE ON OR IN SUCH LAND. THE INCLUSION OF THIS NOTICE DOES NOT ENLARGE, RESTRICT OR MODIFY ANY LEGAL RIGHTS OR ESTATES OTHERWISE CREATED, TRANSFERRED, EXCEPTED OR RESERVED BY THIS INSTRUMENT.

IN WITNESS WHEREOF, said Grantor has hereunder set its hand and seal the day and year first above written.

ATTEST:

EARTH CONSERVANCY

Karen Warho

BY:

Michael A. Dziak

MICHAEL A. DZIAK
President and Chief Executive Officer

Received and acknowledged on the 25th day of JUNE, 2008 by
the above named Grantees.

BY:

Michael A. Dziak

MICHAEL A. DZIAK
President and Chief Executive Officer

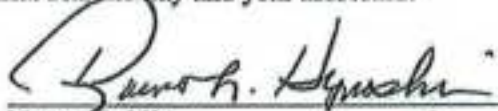
COMMONWEALTH OF PENNSYLVANIA :

SS:

COUNTY OF LUZERNE :

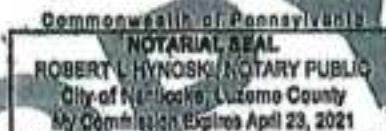
On this the 25th day of JUNE, 2018, before me, a Notary Public, in and for said Commonwealth and County, personally appeared **Michael A. Dziak**, who acknowledged himself to be the President and Chief Executive Officer of Earth Conservancy, a Pennsylvania nonprofit corporation, and that he as such officer being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the corporation by himself as such officer.

WITNESS my hand and notarial seal the day and year aforesaid.



Notary Public

My Commission Expires: APRIL 23, 2021



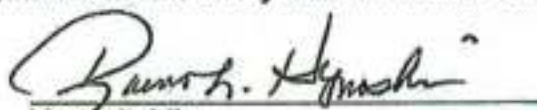
COMMONWEALTH OF PENNSYLVANIA :

SS:

COUNTY OF LUZERNE :

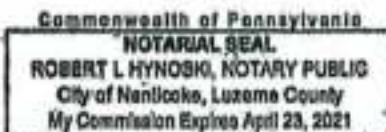
On this the 25th day of JUNE, 2018, before me, a Notary Public, in and for said Commonwealth and County, personally appeared **Michael A. Dziak**, known to me (or satisfactorily proven) to be the persons whose names are subscribed to the within instrument and who acknowledged that they executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.



Notary Public

My commission expires: APRIL 23, 2021



I HEREBY CERTIFY that the precise address of the grantees herein is:

Karen Waiko

Earth Conservancy

101 South Main Street

Ashley, PA 18706

COMMONWEALTH OF PENNSYLVANIA :

SS:

COUNTY OF LUZERNE

Recorded in the Office for Recording of Deeds in and for Luzerne County in Deed Book
_____, Page _____,

Witness my hand and seal of Office this ____ day of _____, 20____,

Recorder

COPY

EXHIBIT "C-1"

Legal Description of Access Easement

COMMON ACCESS EASEMENT
LEGAL DESCRIPTION

ALL THAT CERTAIN PIECE OR PARCEL of land situate in Hanover Township, County of Luzerne, Commonwealth of Pennsylvania, bounded and described as follows:

BEGINNING at point at the southeast corner of said easement area along the northerly right-of-way line of the South Valley Parkway roundabout at Exit 2A.

THENCE through lands of Earth Conservancy New Lot 2 of the E.C. Hanover 7 subdivision north $07^{\circ}27'49''$ west a distance of 134.40 feet to a point;

THENCE continuing through said lands north $27^{\circ}25'19''$ west a distance of 631.59 feet to a point;

THENCE along the southerly right-of-way line of Great Valley Boulevard south $62^{\circ}34'41''$ west a distance of 50.00 feet to a point;

THENCE through lands of Earth Conservancy New Lot 1 of the E.C. Hanover 7 subdivision south $27^{\circ}25'19''$ east a distance of 622.79 feet to a point;

THENCE continuing through said lands south $07^{\circ}27'49''$ east a distance of 125.60 feet to a point;

THENCE along the northerly right-of-way line of the South Valley Parkway north $82^{\circ}34'11''$ east a distance of 50.00 feet to to the POINT OF BEGINNING;

Containing an area of 37,859.0 square feet or 0.87 acres more or less.

EXHIBIT "C-2"
ACCESS EASEMENT PLAN

LOOK UP
THE GREAT INLET BUREAU
2225 BUCK 2016 PAGE 1119
THE 10-100-100

INLET
R=703.6

10" WATER MAIN

INLET
R=703.6

ACCESS EASEMENT
37,858 SQ. FT.
0.87 ACRES

APPROXIMATE LANDFILL LINE

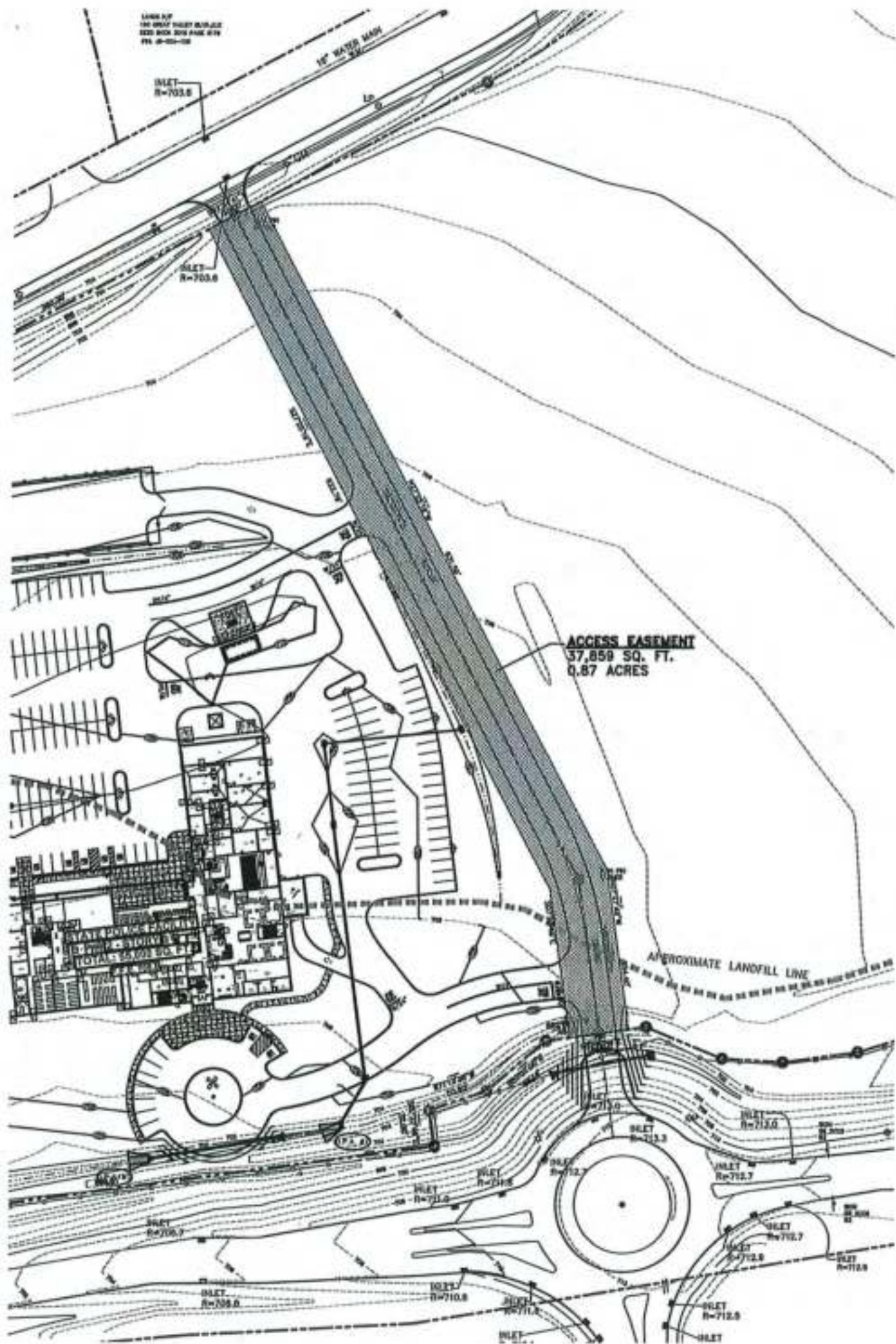
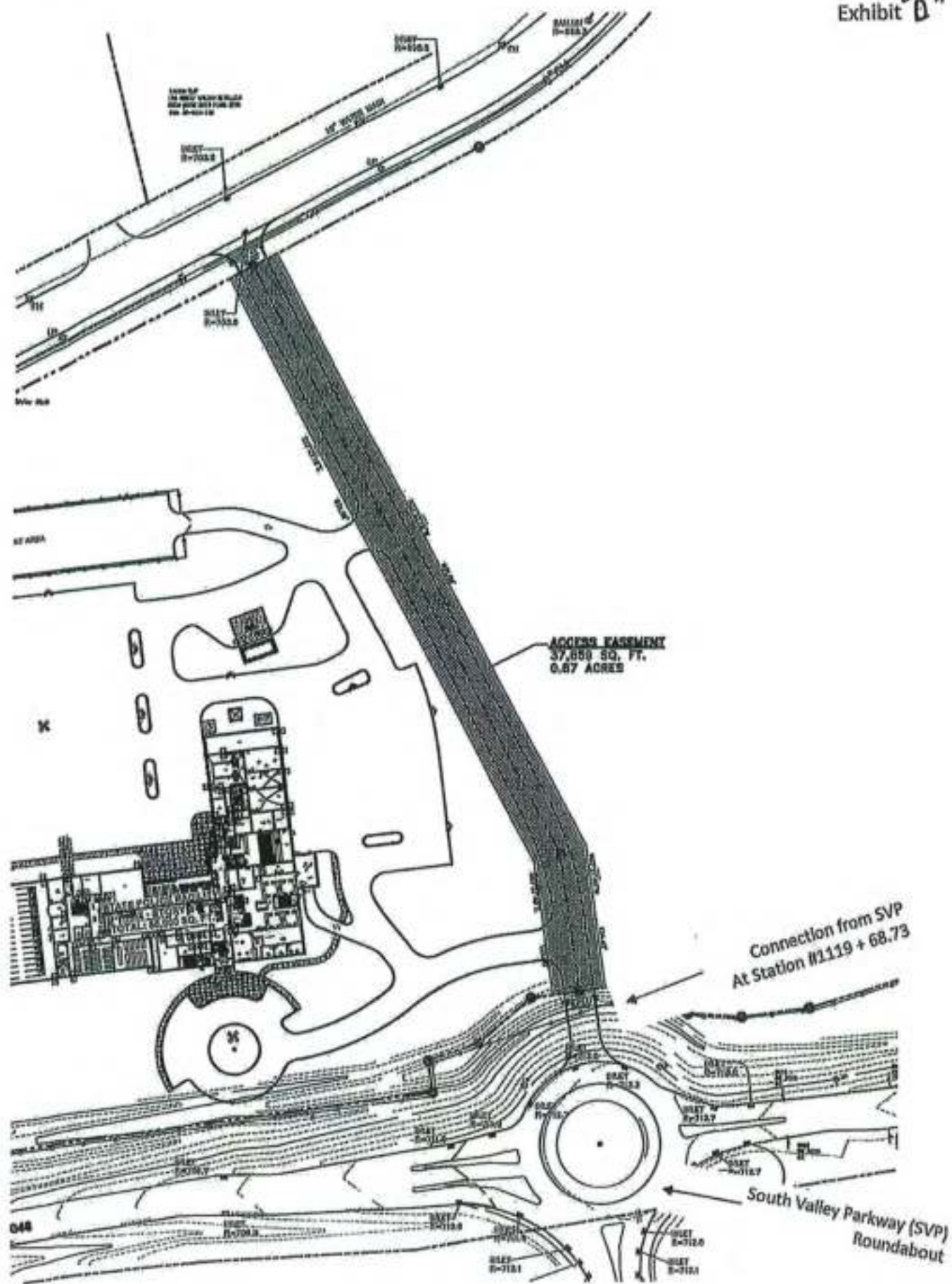
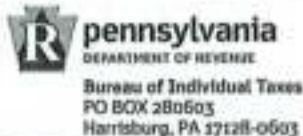


EXHIBIT "D"

SITE PLAN OF AREA
TO BE CONSTRUCTED BY GRANTEE





REALTY TRANSFER TAX STATEMENT OF VALUE

See reverse for instructions.

RECORDER'S USE ONLY

State Tax Paid	50.00
Book Number	3019
Page Number	230536
Date Recorded	12/10/2019

Complete each section and file in duplicate with Recorder of Deeds when (1) the full value/consideration is not set forth in the deed, (2) the deed is without consideration or by gift, or (3) a tax exemption is claimed. A Statement of Value is not required if the transfer is wholly exempt from tax based on family relationship or public utility easement. If more space is needed, attach additional sheets.

A. CORRESPONDENT - All inquiries may be directed to the following person:

Name	Angelo C. TerRana Jr.	Telephone Number:	(570) 293-7500
Mailing Address	400 Third Ave, Ste. 117	City	Kingston
		State	PA
		ZIP Code	18704

B. TRANSFER DATA

Grantor(s)/Lessor(s)	Earth Conservancy
Mailing Address	Main St
City	Ashley
State	PA
ZIP Code	18702

C. Date of Acceptance of Document

Grantee(s)/Lessee(s)	PSP-NE LLC
Mailing Address	104 Spackman St
City	Exeter
State	PA
ZIP Code	18643

D. REAL ESTATE LOCATION

Street Address	RTS. 209	City, Township, Borough	Itanoka Twp
County	Lebanon	School District	Hanover Area
		Tax Parcel Number	P10 J800A 150

E. VALUATION DATA - WAS TRANSACTION PART OF AN ASSIGNMENT OR RELOCATION? ☐ Y ☒ N

1. Actual Cash Consideration	1.00	2. Other Consideration	+ 0.00	3. Total Consideration	= 0.00
4. County Assessed Value	Larger parcel	5. Common Level Ratio Factor	X 2.99	6. Fair Market Value	= Larger parcel

F. EXEMPTION DATA

1a. Amount of Exemption Claimed	100%	1b. Percentage of Grantor's Interest in Real Estate	100%	1c. Percentage of Grantor's Interest Conveyed	100%
---------------------------------	------	---	------	---	------

Check Appropriate Box Below for Exemption Claimed.

- ☐ Will or intestate succession. (Name of Decedent) (Estate File Number)
- ☐ Transfer to a trust. (Attach complete copy of trust agreement identifying all beneficiaries.)
- ☐ Transfer from a trust. Date of transfer into the trust
If trust was amended attach a copy of original and amended trust.
- ☐ Transfer between principal and agent/straw party. (Attach complete copy of agency/straw party agreement.)
- ☐ Transfers to the commonwealth, the U.S. and instrumentalities by gift, dedication, condemnation or in lieu of condemnation. (If condemnation or in lieu of condemnation, attach copy of resolution.)
- ☐ Transfer from mortgagor to a holder of a mortgage in default. (Attach copy of mortgage and note/assignment.)
- ☐ Corrective or confirmatory deed. (Attach complete copy of the deed to be corrected or confirmed.)
- ☐ Statutory corporate consolidation, merger or division. (Attach copy of articles.)
- ☒ Other (Please explain exemption claimed.) Exemption

Under penalties of law, I declare that I have examined this statement, including accompanying information, and to the best of my knowledge and belief, it is true, correct and complete.

Signature of Correspondent or Responsible Party

Date

12-10-19

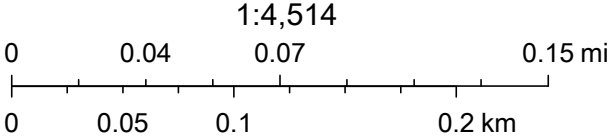
FAILURE TO COMPLETE THIS FORM PROPERLY OR ATTACH REQUESTED DOCUMENTATION MAY RESULT IN THE RECORDER'S REFUSAL TO RECORD THE DEED.

Appendix F Utility Maps

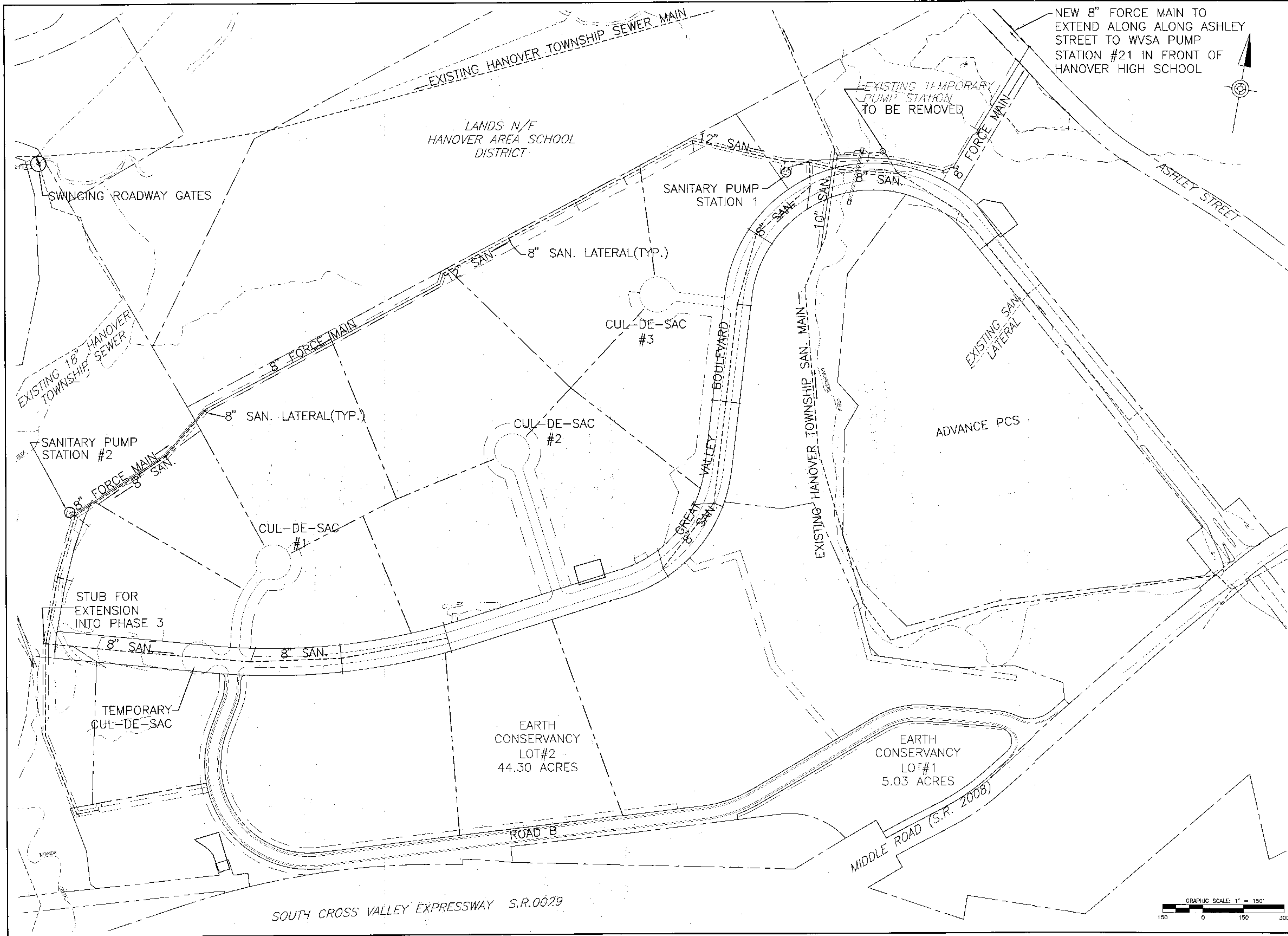


10/5/2022, 10:52:01 AM

- Active Water Mains - Greater than 12"
- Active Water Mains: 12" or Less
- Water Service Areas



Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, EPA, USDA



NEW 8" FORCE MAIN TO
EXTEND ALONG ASHLEY
STREET TO WWSA PUMP
STATION #21 IN FRONT OF
HANOVER HIGH SCHOOL

BORTON • LAWSON
ENGINEERING

INCORPORATED • 1984 • 1500 N. 10TH ST. • SUITE 100 • HANOVER, PA 17331
PHYSICAL / ELECTRICAL / MECHANICAL / CIVIL / SANITARY / WATER / SEWER / DRAINAGE / EROSION CONTROL / SITE DEVELOPMENT • SURVEYING

www.borton-lawson.com
Voice: (717) 871-1696
Fax: (717) 871-1697

PROPOSED SANITARY SEWERS PHASE 2

**HANOVER CROSSINGS
PHASE 2**

LUZERNE COUNTY HANOVER TOWNSHIP PENNSYLVANIA

PROJECT NO. 2001-1024-04
DRAWING NO. 8 of 10

REV	REVISIONS	DATE	BY	CHKD	APP'D
1	AS NOTED	07-06-04	UNLBY JEB	CH-57	





Caution: This material may not be used for reproduction or duplication without written permission. Pipe data is conditional and requires field verification.



UGI, Penn Natural Gas, Inc.

Printed: 12/21/2020 14:15:38

Appendix G
Geotechnical Report

MIDLANTIC ENGINEERING, INC.
120 COMMERCE ROAD
PITTSTON TOWNSHIP, PA 18640-9552

PRELIMINARY GEOTECHNICAL ENGINEERING REPORT

HANOVER CROSSINGS – RECLAMATION SITES
HANOVER TOWNSHIP, PA

(Project #06018.1)

PREPARED FOR:

EARTH CONSERVANCY, INC.
101 SOUTH MAIN STREET
ASHLEY, PA 18706

JANUARY 2, 2007



January 2, 2007

Earth Conservancy, Inc.
101 South Main Street
Ashley, PA 18706

ATTENTION: Mr. Mike Dziak

SUBJECT: Preliminary Geotechnical Engineering Report (#06018.1)
Hanover Crossings – Reclamation Sites
Hanover Township, PA

Mr. Dziak:

Submitted herewith are three copies of our preliminary geotechnical engineering report for the above referenced project. Our services have been performed in accordance with our proposal/agreement dated October 23, 2006 and your subsequent authorization to proceed.

1. SCOPE OF SERVICES

Services performed included the test boring layout, drilling and sampling a series of six test borings, review of site geologic and mining data, and preparation of our report. Our preliminary geotechnical engineering analysis and report includes the following:

- a. Review of available mining survey data to determine the extent of previous mining operations and possible effects on proposed developments.
- b. Our evaluation of the estimated subsurface conditions within the proposed development areas based on the preliminary test boring data and previous site test boring data. Estimated subsurface profiles are included to present our interpretation of the data.
- c. Preliminary assessment and foundation design alternatives for support of proposed buildings and floor slabs on grade.
- d. Recommended earthwork requirements for construction of structural fill, including an assessment of on-site materials to be excavated for use as fill.

- e. Comments regarding geotechnical construction considerations for initial site development and construction planning. Recommendations for the final geotechnical test boring investigation program and scope of study are included.

Services with respect to environmental considerations, wetlands investigations, specific building foundation designs, pavement design sections, erosion control, construction cost or quantity estimates and construction observation and testing are not included in the scope of services under this phase of our contract.

2. DESCRIPTION OF SITE

The full development site is an area of about 54 acres and was previously referenced as Lot 1 of Parcel 7A in Hanover Township, Pennsylvania. The study area is generally bordered to the south by Route 29; to the east by Middle Road and a stream tributary to Warrior Creek; and to the north by Great Valley Boulevard and lands of the Greater Wilkes-Barre Chamber of Business and Industry.

Strip mining for anthracite coal was performed through the center area of the study site in the 1950s and 1960s. Based on previous site studies and information provided to us, flood reclamation debris from Hurricane Agnes was used to fill the non-operating strip mine areas in 1973. Most of the debris was construction-type debris from buildings damaged in the flood. The previous landfill area encompasses about 38 acres. The site continued to be used as a solid waste facility until May 1982. The site was idle from 1982 until 2000.

The site has been filled and graded by Earth Conservancy under separate contracts. An initial area including about 6 acres of the fill areas was completed at the west portion of the site in the spring of 2006. The balance of the site grading was completed throughout 2006. The project site is indicated on the project vicinity plan, included herein as dwg. 06018.1-1.

The information listed above was provided to us by your office, derived from project plans provided to us, or was obtained during our own site visits.

3. SUBSURFACE CONDITIONS

For preliminary evaluation of subsurface conditions at the proposed development areas, six test borings were drilled under this phase of our study from December 4 through 6, 2006. Three previous test borings drilled in February 2006 along the west side are also included for this study. The borings were extended to depths of 26 feet to 68 feet each. The test boring logs, water level observation data, and test boring location plan are included in Enclosure (2).

Previous test borings drilled in the study vicinity prior to the site grading operations of the Earth Conservancy have also been considered in our analyses. The previous test boring logs are included in Enclosure (3).

3.1 Test Boring Data and Stratification

The test borings performed for this preliminary evaluation indicate the following generalized strata underlie the study site to the depths investigated:

Stratum GF: (grading Fill)	from ground surface to depths of about 1 to 9 feet	brown silty sand and gravel FILL; loose (N=5 to 30+)
Stratum PF2: (ash Fill)	below Stratum GF to depths of 5 feet to 12 feet, at four of the test boring locations	brown and gray processed ash FILL, noted cementation throughout depth encountered; compact to very compact (N=23 to 100+) (Rec=98% to 100%, RQD=13% to 18%)
Stratum PF1: (ash Fill)	below Stratum GF to a depth of 11 to 13 feet at two of the test boring locations	red, brown processed ash FILL, trace rock and coal fragments; generally firm (N=5 to 32)
Stratum G: (refuse Fill)	below Strata G, PF2, and PF1 to depths of 17 feet to 66 feet	gray brown silty sand and refuse FILL, construction debris including wood, brick, metal, insulation, fabric, etc.; variable consistency
Stratum F:	below Stratum G to depths of 28.5 feet to 68 feet	brown silty sand and rock fragment FILL, with boulders, trace coal fragments; firm to compact (N=10 to 100+)
Stratum DR: (Residual)	below Stratum F to depths of 26 feet to 53.5 feet	gray and brown DISINTEGRATED ROCK with silty sand; very compact (N=100+)
Stratum R: (Rock)	below Stratum DR to maximum depths sampled	moderately weathered gray SANDSTONE and SHALE, slightly to moderately fractured (Rec= 100%, RQD=43% to 65%)

Numbers after the description of the soil strata indicate the minimum and maximum penetration resistances, or N values, recorded in each stratum. The N values indicate the penetration resistance in blows per foot of a standard 2-inch O.D., 1 $\frac{3}{8}$ -inch I.D. sampling spoon driven with a 140-pound hammer falling 30 inches per ASTM D-1586. The sampling spoon is driven an initial depth of 6 inches to assure the sampling spoon is in undisturbed material, and the number of blows required to drive the sampling spoon an additional 12 inches is taken as the N value.

The soil samples indicated in the stratum descriptions and on the boring logs represent the Unified Soil Classification (ASTM D-2488) group symbols based on visual observation of the specimens recovered. Criteria for visual classification of soil samples are included herein in Enclosure (1). The visual classifications may vary from classifications based on the results of soil laboratory testing.

Test boring EC-2 was set up to core drill the upper level of the processed ash FILL of Stratum PF2 and the bottom rock of Stratum R with NQ size core drilling equipment for identification and evaluation purposes. The percentages after the descriptions indicate the variation in core recovery, which is the length of core recovered expressed as a percent of the total core length drilled. The Rock Quality Designation (RQD) is also provided which is defined as the total length of core segments recovered greater than 4 inches in length, as a percentage of the total length drilled. The rock classification criteria is included in Enclosure (1).

Estimated subsurface profiles have been developed to present our interpretation of the test data, the mining data, and site history data as listed in this report. The surface profiles are included as Enclosure (4).

3.2 Geology and Site History

The fill materials of Stratum GF are associated with the most recent site grading fill placed during site reclamation efforts completed on the project site. The fill of Stratum GF is primarily sand and gravel type materials.

The processed ash fill material of Stratum PF2 consists of granular ash material placed on the site in recent years as part of the reclamation process. These materials appear to have been placed and compacted with control and effort. The material designated as Stratum PF2 has noted cementation through the full depth of the materials as encountered at the test boring locations.

The processed ash fill of Stratum PF1 was encountered at borings EC-3 and EC-5. The material was distinguished from Stratum PF2 based on the red/brown color and there was no noted cementation of the Stratum PF1 materials.

The fill refuse materials of Stratum G encountered at the test boring locations are associated with the previous use of the study area as a landfill site for the 1973 Agnes flood reclamation and subsequent site use as a municipal waste site. The estimated extent and depths of the landfill area are delineated from the previous Phase II ESA report. The estimated depths of fill have been modified in this report based on the test boring data developed from this study.

The rock fragment and silty sand fill materials of Stratum F are associated with reclamation of previous strip mining activities in the study area. The locations and depths of this fill are inferred from the mining data reviewed for this study.

Underlying bedrock consists of fine to coarse-grained sandstone, shale, conglomerate, and numerous anthracite coal measures in repetitive sequences. This sedimentary rock belongs to the Llewellyn formation of the Pennsylvanian geologic age. The rock is noted as outcropping to the surface at areas north and south of the previous landfill operations within the study area.

The strike of the rock in this study area is approximately east-northeast and the rock dips to the south at angles of 47° to 60° below horizontal. The uppermost coal veins outcropped to the surface in sequence across the vicinity of the study site.

Mining maps were reviewed at the Department of the Interior's Office of Surface Mining to study the previous surface and subsurface mining activities in the project area. The study area is part of the Truesdale Colliery. The sequence of shallow mined coal measures in the development area is indicated in the following table:

<u>Item</u>	<u>Approx. Elevation</u>	<u>Comments</u>
Ground surface	El 720 to 660	
No. 5 vein	Outcrop; 50°± dip to south	strip mined to north of study site
No. 4 vein	Outcrop; 50°± dip to south	strip mined across the study site; subsurface mined at El 350±

Subsurface mining of additional coal veins is indicated for various measures at depths in excess of 600 feet below surface grades. The deep subsurface mining is not expected to have any effect on future site developments.

3.3 Groundwater Observations

Groundwater observations were performed during the drilling operations at each of the test boring locations. The results of water readings are shown on the boring logs included in Enclosure (2). No static groundwater was encountered in the test borings to the depths investigated.

Fluctuations in groundwater levels, as well as perched water, may be expected with variations in precipitation, evaporation, adjacent construction activity, and similar factors.

3.4 Laboratory Testing Data

Selected core samples of the cemented processed ash fill of Stratum PF2 were previously tested for unit weight and unconfined compressive strength. The test results are summarized as follows:

<u>Boring Number</u>	<u>Depth/ Elevation</u>	<u>Stratum</u>	<u>Description</u>	<u>Unit Weight</u>	<u>Unconfined Compressive Strength</u>
EC-2	6.5' El 698.5	PF2	processed ASH – FILL	88.0 pcf	310 psi
EC-2	7.3' El 697.7	PF2	processed ASH – FILL	88.5 pcf	280 psi
EC-2	10.7' El 694.3	PF2	processed ASH – FILL	99.6 pcf	1,120 psi
EC-2	11.4' El 693.6	PF2	processed ASH – FILL	98.2 pcf	780 psi

4. MINE SUBSIDENCE POTENTIAL

Abandoned coal mine workings have the potential for producing ground surface distortion as a result of mine subsidence. Mechanisms that can produce such distortion include roof fall, loss of pillar support, and pothole development. These mine subsidence mechanisms are examined for the study site as follows:

4.1 Roof Fall or Pillar Failure

The unsupported rock roofs in mine passageways have the potential for collapsing into the passageway. In the analysis of roof stability, the upward propagation of a roof collapse is dependent upon the spanning capabilities of the cap rock and/or the development of a linear arch in the caprock. If various geologic discontinuities exist in the strata, they may cause a roof fall. The roof fall can continue until a general arch condition is developed in a more competent stratum at a higher elevation or until the void is filled with the bulking action of the fall rock.

The uppermost subsurface mined coal measure within the development area is the No. 4 vein which has been strip mined to depths of about 50 feet below original surface grades. The dip of the vein is about 47° to 50° to the south. The No. 4 vein has been subsurface mined by room-and-pillar method mining through the study area at greater depths and secondary mining of the pillars is indicated.

Our preliminary analysis indicates that the cap rock is generally of sufficient quality and thickness to adequately span smaller voids at the No. 4 vein mine level. The probability of structural distortion due to roof collapse at mined areas of the No. 4 vein is considered to be negligible.

The subsurface mining records for the No. 4 vein indicate the mining dips at about 47° to 50° to the south and the subsurface mining was performed by room-and-pillar method mining to mine roadways at depths of 250 feet to 300 feet below surface grade. The pillars are generally of typical proportioning for room-and-pillar coal mining in this vein. Considering the proportion of pillars, the extent of secondary mining, dip of the mines, and thickness of the coal veins, it is our opinion that the possibility of future pillar collapse and mine closure would be negligible.

4.2 Pothole Development

Soil particles potentially can erode through openings in overburden cap rock and into open mine voids. This subsurface soil erosion then propagates to the ground surface in the form of a localized pothole. Pothole development is historically the most common form of subsidence related to mine workings in this site vicinity.

As stated, the No. 4 vein outcrops to the surface within the study site at a dip of about 47° to 50° to the south and has been strip mined to depths of up to 50 feet below original surface grades. Fill materials related to strip mining reclamation were encountered at test boring locations within the strip mine areas. The No. 4 vein has been subsurface mined by room-and-pillar methods at greater depths. This geologic condition can be susceptible to pothole development due to loss of overburden materials into the open mine areas. However, due to the fill of Stratum F encountered at the base of the former strip mine areas and history of the site, the probability of pothole type subsidence within the immediate study area is considered to be slight.

4.3 Preliminary Assessment

The potential of future roof collapse or mine pillar collapse propagating to the surface and causing surface distortion is considered negligible. Assessment of site conditions indicate a slight risk of pothole subsidence due to ground loss to mine openings within the areas of previous subsurface mining of the No. 4 vein.

Certain development siting, site preparation, and construction methods should be considered and implemented to reduce the potential of mining related subsidence or surface distortion which has the possibility of developing within proposed building areas. Preliminary recommendations for siting and subgrade preparations are provided herein. Specific remediation and lot preparation plans should be developed prior to final site plan preparations and construction.

5. PRELIMINARY GEOTECHNICAL ENGINEERING REVIEW

Our preliminary foundation engineering analyses are based upon the subsurface information data as developed by our field investigations, review of site geologic data, results of laboratory testing, review of subsurface investigation data from the previous Phase II ESA report, and the site and development data furnished to us for this study. We have considered low-rise commercial type buildings with widely spaced columns and lightly loaded perimeter walls.

The most predominant features to consider for development planning are the extent of surface mining areas and the extent and depths of the landfill refuse materials on site. These conditions will have a direct impact on proposed development construction schemes, costs, and long-term serviceability of the site.

5.1 Siting Considerations

The preliminary development scheme provided to us for this study indicates three buildings within the site. The primary building location spans about 400' x 600' on the east side of the site. Smaller buildings of about 4,000 ft² and 69,000 ft² are indicated at points on the west side of the site. The Schematic Development Plan is included as dwg. 06018.1-2 in Enclosure (3).

The existing fill-refuse materials of Stratum G are not considered suitable for direct support of building foundations or structural slabs on-grade. The fill-refuse materials include extensive wood fragments and other deleterious debris. These materials are not considered suitable for reuse as structural fill in the building areas. The fill-refuse materials may also have an impact on infrastructure elements.

Siting buildings within or across the area of previous strip mining, as indicated on the preliminary development plan, is not considered optimal due to the variable depth of underlying refuse fill and potential of differential settlements across these areas. Other areas on-site may be considered for potential building development but may require extensive site work remediation, relocation of existing fill-refuse materials, or deep foundation systems.

Based on these conditions, we believe the areas most suitable for support of construction of buildings are along the south side of the study area. These areas are outside of the coal strip mines and generally outside of the extent of the fill-refuse materials of Stratum G. Buildings cut into existing grades will generally be into natural soil or underlying rock and could be founded on conventional shallow spread footings. Smaller elongated buildings parallel to the roadway on the south end of the site will best fit these geotechnical conditions.

Non-structural elements such as car parking lot areas can generally be located through the former strip mine and fill areas of the site. Pavement sections can be planned with geotextile reinforcement on prepared fill subgrades over minimum depths of the compacted fill. We recommend planning smaller separated parking areas with run-off drainage managed by trenching at intermittent locations to eliminate or reduce the need of in-ground stormwater piping in these areas.

Post construction settlements over the fill-refuse materials will be anticipated at areas of deepest existing fill. We anticipate pavement service life of $\frac{2}{3}$ to $\frac{1}{2}$ of standard design.

5.2 Shallow Foundations into Natural Subgrades

For proposed buildings set outside of the areas of former strip mining and building grades set at or below existing surface grades, we expect very compact silty sand or underlying rock of Stratum R at development subgrade levels. These natural soil or rock subgrades will be suitable for support of proposed buildings using individual column footings and continuous wall footings. We estimate allowable footing design bearing pressures ranging between 2 ksf and 3 ksf for footings on natural soil subgrades. Higher design bearing pressures of 4 ksf to 12 ksf may be anticipated for the underlying rock of Stratum R. Some lowering of footing subgrades may be required along proposed cut/fill lines to extend below shallow fill materials.

Building areas which may extend beyond cut areas will require new fill to reach proposed subgrade elevations. Spread footings bearing on new compacted structural fill are anticipated to be feasible. We estimate design soil bearing pressures in the range of 2 ksf to 3 ksf on compacted structural fill. Prepared structural fill subgrades would be below or beyond all existing fill materials of Stratum G.

Subgrade materials at floor slab elevations are expected to range from the existing rock subgrades at Stratum R to new compacted fill. These materials are generally considered suitable for support of floor slabs. We anticipate a design modulus of subgrade reaction in the range of $k_s = 100$ pci to 200 pci on prepared subgrades. Groundwater levels are generally expected to be below floor grade elevations and underfloor subdrainage systems will not be required.

All building exterior spread footings should be planned a minimum of 3.5 feet below adjacent exterior grades for frost protection. Perimeter footing drains are recommended for all building walls below grade.

5.3 Deep Foundation Alternatives

Drilled or driven pile systems may be considered for structural support of foundation elements within areas of deeper fill materials of Stratum G. Piles extended to the underlying rock of Stratum R can be sized for various loading conditions of about 10 tons to 40 tons per pile. These systems would require structural support of ground floor levels and will be more costly than shallow foundation alternatives.

A pile system within the fill materials of Stratum G will also require structural support for sidewalks and entryways immediately adjacent to the building. Significant differential settlements will occur between the pile-supported elements and non-supported subgrade areas.

5.4 Ground Modifications Alternatives

Ground modification methods such as installation of stone columns, or compaction grouting may also be considered for improving subgrade conditions for building development in these areas. However, due to the high percentage of wood and deleterious materials within the fill-refuse materials, continued decomposition and consolidation could affect long-term serviceability. Ground modification can also be used at more critical roadway areas for support of subbase materials, but where settlements and differential settlements are more tolerable.

6. **PRELIMINARY CONSTRUCTION PLANNING CONSIDERATIONS**

The following recommendations are provided for preliminary development planning and utilization of the engineering recommendations provided in this report.

6.1 Rock Excavation

Rock excavation will most likely be necessary to reach to the proposed floor subgrade level at the preferred building sites. Blasting is expected to be required for rock excavation and considerations must be given to vibrations transmitted to nearby structures and utilities in determining the size of charges that may be detonated at one time. Each blast should be contained with adequate overburden to minimize air blast and flyrock. A crack survey of nearby structures should be made prior to the start of construction to document existing conditions. Overbreak due to blasting should be the responsibility of the contractor.

6.2 Structural Fill Subgrades in Building Areas

The prepared structural fill subgrades in building areas should be proofrolled to verify the suitability of the subgrades for structural fill support. The prepared subgrades in building areas should be below or beyond all existing fill of Stratum G and should be free of any topsoil, debris, or frozen materials.

The existing fill-refuse materials of Stratum G consist of various construction debris with large amounts of wood and deleterious materials. These fill-refuse materials are not considered suitable for re-use as structural fill in the building areas. We anticipate any existing fill-refuse materials to be removed from building development areas will be relocated on this site. The northeast side of the site is considered most suitable for the relocation of fill-refuse.

6.3 Shot-Rock Fill

‘Shot-rock’ materials are considered suitable for use as structural fill. Shot-rock materials are considered suitable as structural fill in the building areas up to grades within 3 feet of building floor subgrades.

The shot-rock materials for use as structural fill should consist of coarse aggregates and rock fragments with grading requirements as follows:

<u>Shot-Rock or Sieve Size</u>	<u>Percent Passing by Weight</u>
18”	100%
2”	5% – 50%
No. 200	< 5%

The rock materials to be blasted from site cut areas are recommended for use as shot-rock structural fill materials. The shot-rock structural fill should be free of all trees, large stumps, frozen soils, or debris. We recommend the shot-rock fill be placed in lifts of not more than 18 inch depths. The shot-rock fill should be placed so larger pieces are evenly distributed and voids are filled as completely as possible, in general accordance with PennDOT 408, Section 206.3. The shot-rock fill should be tracked and compacted into place to non-movement in general accordance with PennDOT 408, Section 210.3.

6.3 Structural Fill

Structural fill and backfill materials within the building and pavement construction areas should consist of inert granular materials. The structural fill should be free of any material designated as deleterious. Rock fragments may be used in the structural fill but should not exceed 8 inches in the longest dimension. The structural fill grading recommendations are as follows:

<u>Aggregate Size</u>	<u>Total Allowable Percent Finer by Weight</u>
6”	100%
2½ ”	100% – 60%
No. 200	30% – 0%

The structural fill within the building area should be placed in shallow horizontal layers of maximum 10 inches loose lift thickness and compacted with the necessary type of compaction equipment to attain at least 95 percent of the maximum dry density per ASTM D-1557. We further recommend the top 10 inches of structural fill in pavement subgrade areas be compacted to at least 98% compaction. The structural fill should be at a moisture content that will facilitate adequate compaction, within 2% of the optimum moisture content.

A mixture of soil and excavated rock materials are generally considered suitable for reuse as structural fill. 'Shot-rock' materials can be graded or crushed to meet the grading requirements of structural fill and are expected to be suitable as structural fill in the proposed building site subbase and parking lot areas.

7. RECOMMENDATIONS FOR ADDITIONAL STUDIES

Comprehensive geotechnical engineering analyses are recommended for specific building sites and grades selected. Further test borings may be necessary to analyze fill depths, fill composition, soil conditions, rock grades, etc. Borings for the type of buildings being considered in this preliminary analysis should extend to depths of about 15 feet below proposed lowest building grades or as required to extend fully through the overburden fill and soil materials to define the underlying rock grades.

The comprehensive geotechnical engineering analyses should include evaluation of foundation alternatives, lateral earth pressures, and drainage recommendations considering specific building layout, grades, and structural data.

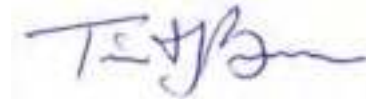
8. PRELIMINARY STUDY LIMITATIONS

We have prepared this report for the use of your office and the design professionals for preliminary planning purposes in accordance with generally accepted geotechnical engineering practices. No other warranties, either expressed or implied, are made as to the professional services included in this report.

We appreciate the opportunity to be of service to you for this project. Please do not hesitate to contact us for further clarification of any aspect of this study.

Sincerely,

MIDLANTIC ENGINEERING, INC.

A handwritten signature in blue ink, appearing to read 'T. Burns', is centered below the company name.

Timothy Burns, P.E.
President

Encls:

- (1) - Identification of Soils
 - Engineering Description of Rocks
- (2) Subsurface Investigation Report
 - General Notes (1 Sheet)
 - Project Vicinity Plan, dwg. 06018.1-1
 - Schematic Development Plan, dwg. 06018.1-2
 - Test Boring Location Plan, dwg. 06018.1-3
 - Test Boring Logs (EC-1 through EC-9)
- (3) Previous Site Test Boring Data
 - Test Boring Logs (B-20 through B-31/7 logs); GWBCBI June, 1998
 - Test Boring Logs (WB-1 through WB-23); Weston/Midlantic #98224, November, 1998
- (4) Subsurface Profiles
 - Subsurface Profile Site Plan, Figure 4-1
 - Subsurface Profiles, Figures 4-2 through 4-6



IDENTIFICATION OF SOILS

I. Definition of Soil Group Names – ASTM D-2487-83			Symbol	Group Name
Coarse-Grained Soils More than 50% retained on No. 200 sieve	Gravels – More than 50% of coarse fraction retained on No. 4 sieve Coarse: ¾" to 3" Fine, No. 4 to ¾"	Clean Gravels Less than 5% fines	GW	well-graded gravel
			GP	poorly graded gravel
		Gravels with Fines More than 12% fines	GM	silty gravel
			GC	clayey gravel
	Sands – 50% or more of coarse fraction passes No. 4 sieve Coarse: No. 10 to No. 4 Medium: No. 40 to No. 10 Fine: No. 200 to No. 40	Clean Sands Less than 5% fines	SW	well-graded sand
			SP	poorly graded sand
		Sands with Fines More than 12% fines	SM	silty sand
			SC	clayey sand
Fine-Grained Soils 50% or more passes the No. 200 sieve	Silts and Clays – Liquid Limit less than 50 Low to medium plasticity	Inorganic	CL	lean clay
			ML	silt
		Organic	OL	organic clay
				organic silt
	Silts and Clays – Liquid Limit 50 or more Medium to high plasticity	Inorganic	CH	fat clay
			MH	elastic silt
		Organic	OH	organic clay
				organic silt
Highly Organic Soils	Primarily organic matter, dark in color, and organic odor		PT	peat

II. Definition of Minor Component Proportions		Approximate Percentage of Fraction by Weight
adjective form	gravelly, sandy	30% or more coarse grained
with	sand, gravel	15% or more coarse grained
	silt, clay	5% to 12% fine grained
trace	sand, gravel	Less than 15% coarse grained
	silt, clay	Less than 5% fine grained

III. Glossary of Miscellaneous Terms

symbols	Unified Soil Classification Symbols are shown above as group symbols. Use a Line Chart for laboratory identification. Dual symbols are used for borderline classifications.
boulders & cobbles	Boulders are considered rounded pieces of rock larger than 12 inches, while cobbles range from 3 to 12 inch size.
disintegrated rock	Residual rock material with a standard penetration resistance (SPT) of more than 60 blows per foot, and less than refusal. Refusal is defined as a SPT of 100 blows for 2" or less penetration.
rock fragments	Angular pieces of rock, distinguished from transported gravel, which have separated from original vein or strata and are present in a soil matrix.
quartz	A hard silica mineral often found in residual soils
ironite	Iron oxide deposited within a soil layer forming cemented deposits
cemented sand	Usually localized rock-like deposits within a soil stratum composed of sand grains cemented by calcium carbonate or other materials.
mica	A soft plate of silica mineral found in many rocks, and in residual or transported soil derived therefrom.
organic materials (excluding peat)	Topsoil: Surface soils that support plant life and which contain considerable amounts of organic matter; Organic Matter: Soil containing organic colloids throughout its structure; Lignite: Hard, brittle decomposed organic matter with low fixed carbon content (a low grade of coal).
fill	Man made deposit containing soil, rock and often foreign matter
probable fill	Soils which contain no visually detected foreign matter but which are suspect with regard to origin
lenses	0 to 2 inch seam of minor soil component
layers	2 to 12 inch seam of minor soil component
pocket	Discontinuous body of minor soil component
color shades	Light to dark to indicate substantial difference in color
moisture conditions	Wet, moist, or dry to indicate visual appearance of specimen



ENGINEERING DESCRIPTION OF ROCKS

Each rock description should be composed of the following elements: weathering, color, rock type, and fracturing.

WEATHERING:

- Fresh:** Freshly broken surfaces appear bright and unweathered. Fractures may show slight brown staining or discoloration. Ringing sound when rock is struck with hammer.
- Slightly Weathered:** Rock generally fresh, but joints stained, and discoloration extends into rock up to 1 inch. Fractures may have slight soil filling. Rock rings if struck with hammer.
- Moderately Weathered:** Significant portions of rock show discoloration and weathering effects. Grains are dull and discolored; some look clayey. Rock has dull sound under hammer and show significant loss of strength as compared to fresh rock.
- Highly Weathered:** Entire rock except quartz grains discolored and dull. Core surfaces often appear pitted or partly washed away. Rock shows severe loss of strength. Dead sound when struck with hammer.

NAMES: (common rock types)

Metamorphic Rocks: Classified by foliation and mineral composition

1. Gneiss: Medium to coarse grained, irregularly banded rock often with alternating light and dark layers.
2. Schist: Fine to medium grained, strongly banded rock, layers are thinner and more distinct than Gneiss. Has a definite "Layered look."

Sedimentary Rocks: Classified by grain size

1. Shale: Fine grained, compressed clay and/or silt.
2. Sandstone: Composed of sand size particles.

Igneous Rocks: Classified by mineral composition only.

1. Granite: Mixture of quartz, feldspar, and mica; does not have foliation.
2. Diorite: Contains at least 50% dark minerals.

FRACTURING: (natural fractures exclusive of drilling breaks)

<u>Spacing</u>	<u>Fracturing</u>
more than 3 feet	massive
1 foot – 3 feet	slightly fractured
2 inches – 1 foot	moderately fractured
less than 2 inches	highly fractured

EXAMPLES:

1. Slightly weathered, gray GNEISS rock, moderately fractured
2. Highly weathered, brown and gray SCHIST rock, highly fractured

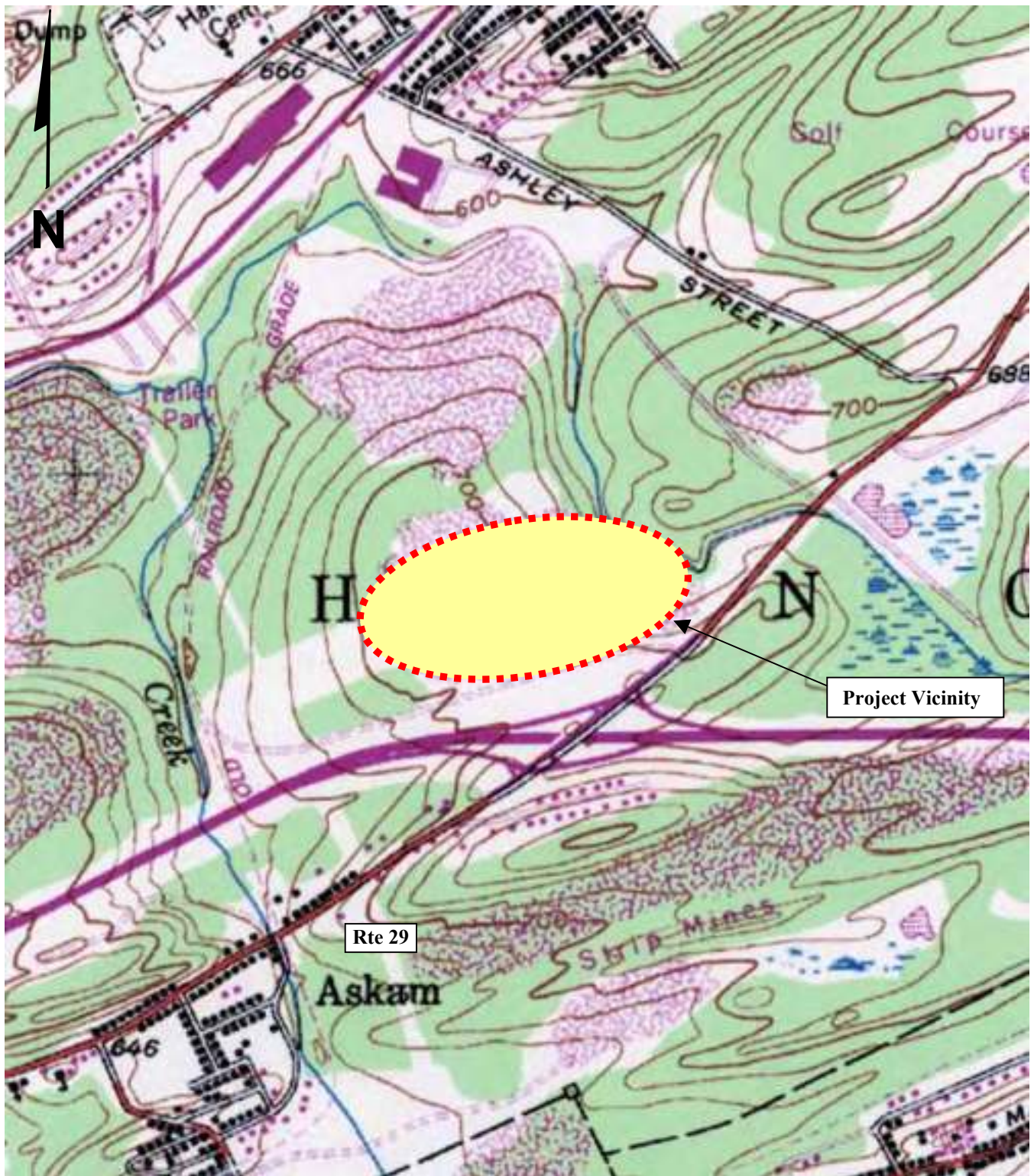
SUBSURFACE INVESTIGATION REPORT

- General Notes (1 Sheet)
- Project Vicinity Plan, dwg. 06018.1-1
- Schematic Development Plan, dwg. 06018.1-2
- Test Boring Location Plan, dwg. 06018.1-3
- Test Boring Logs (EC-1 through EC-9)

General Notes

1. Numbers in the sampling data column indicate the number of blows required to drive a 2-inch O.D., 1 $\frac{3}{8}$ -inch I.D. sampling spoon through three 6-inch intervals, or as indicated, using a 140-pound hammer falling 30 inches, according to ASTM D-1586.
2. Sample descriptions are based on visual inspection by the drilling foremen and are in general accordance with the Unified Soil Classification System per ASTM D-2488.
3. Refusal at the surface of rock, boulder, or obstruction is defined as a penetration resistance of 50 blows per 1-inch penetration or less.
4. Key to abbreviations and symbols:

* = No sample recovery	NQ = Rock Core Size
M% = Moisture Content	Rec = Rock core recovery
■ = Area Sampled	RQD = Rock Quality Designation
5. The boring logs and related information depict subsurface conditions at these specific locations and at the particular time when drilled. Soil conditions at other locations may differ from conditions occurring at these boring locations. Also, the passage of time may result in a change in the subsurface soil and groundwater conditions at these boring locations.
6. The stratification lines represent the approximate boundary between soil and rock types as determined in the drilling and sampling operation. Some variation may be expected vertically between samples taken. The soil profile, water level observations and penetration resistances presented on these boring logs have been made with reasonable care and accuracy and must be considered only an approximate representation of subsurface conditions to be encountered at the particular location.
7. Surface grades for the test boring locations were interpolated from the site topography plans provided.
8. Estimated groundwater levels are indicated on the logs. These are only estimates from available data and may vary with precipitation, porosity of the soil, site topography and similar factors.



120 Commerce Road • Pittston Township, PA 18640-9552
570/655-2200 (phone) • 570/655-2212 (fax)

Drawing Title:

Project Vicinity Plan

Hanover Crossings – Reclamation Project

Hanover Township, PA

Drawn By:
TL

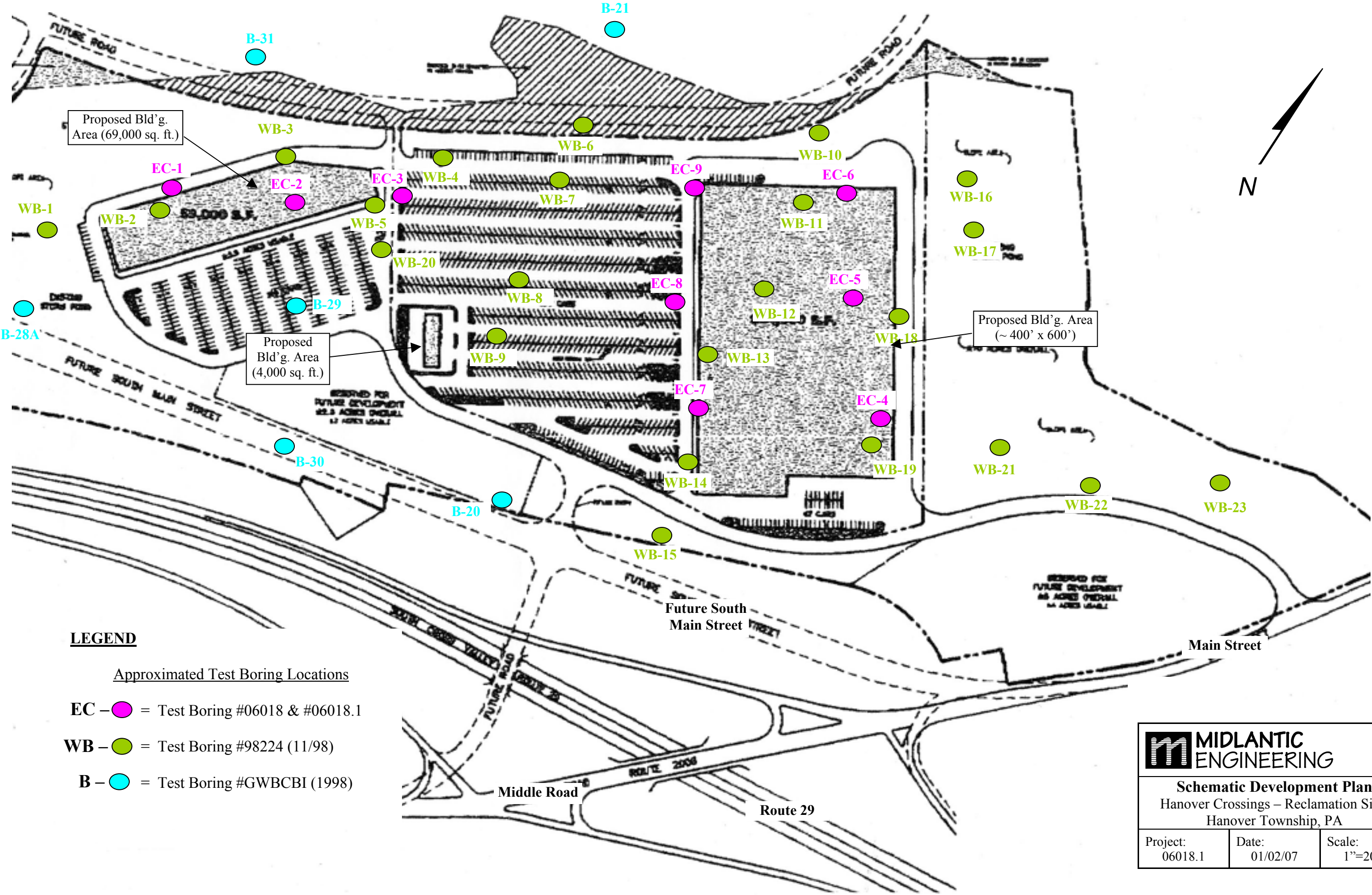
Checked By:
TB

Scale:
1" = 1000'

Date:
01/02/07




Project No.:
06018.1


Sheet No.

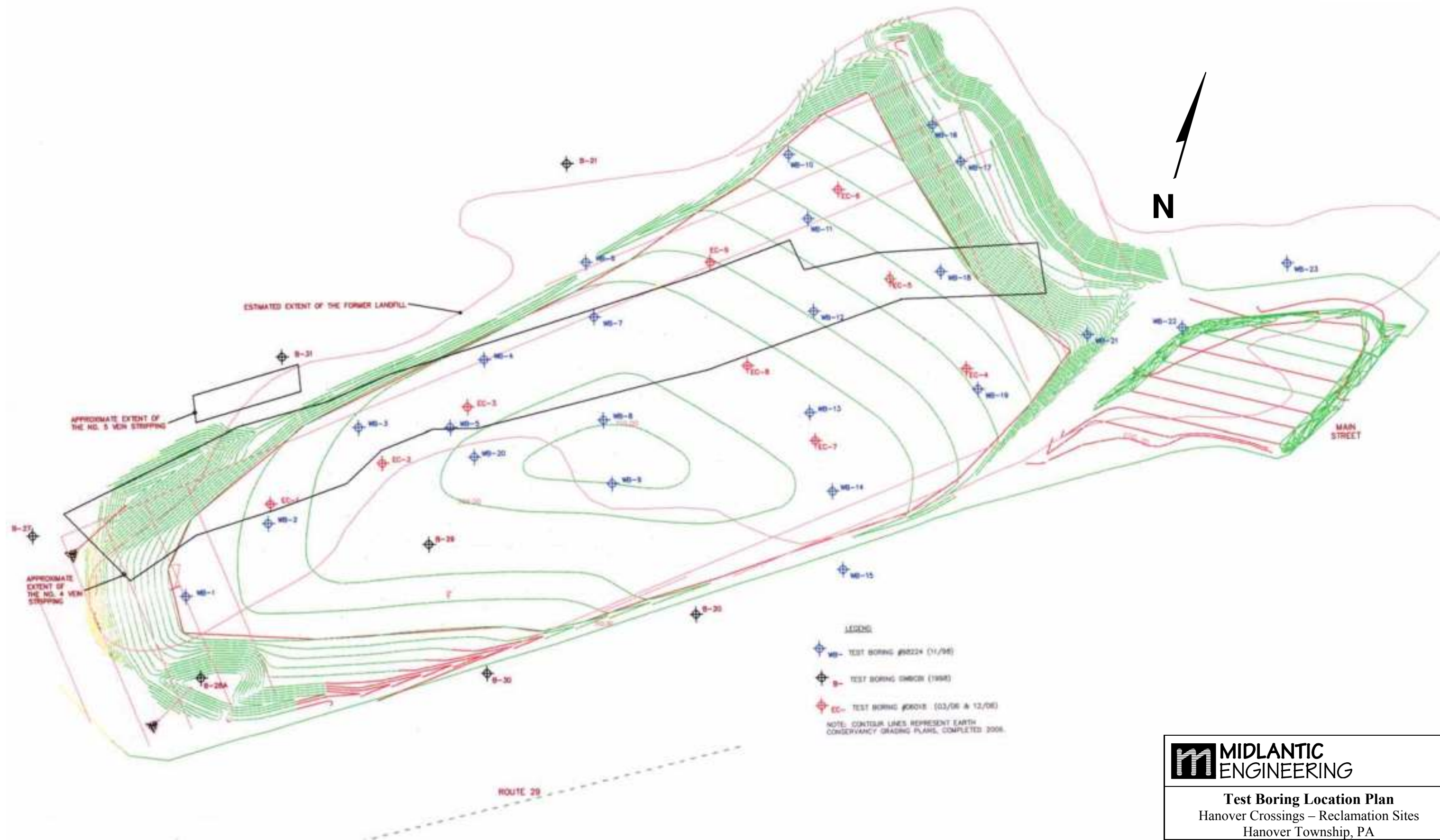



LEGEND

Approximated Test Boring Locations

- EC –  = Test Boring #06018 & #06018.1
- WB –  = Test Boring #98224 (11/98)
- B –  = Test Boring #GWBCBI (1998)

 MIDLANTIC ENGINEERING		
Schematic Development Plan Hanover Crossings – Reclamation Sites Hanover Township, PA		
Project: 06018.1	Date: 01/02/07	Scale: 1"=200'



 MIDLANTIC ENGINEERING		
Test Boring Location Plan Hanover Crossings – Reclamation Sites Hanover Township, PA		
Project: 06018.1	Date: 01/02/07	Scale: 1" = 200'



TEST BORING LOG

Project: Hanover Crossings
Hanover Township, PA

Test Loc. No.: **EC-4**
Contract No.: **06018.1**

ME, Inc. Rep.: T. Ludka
Date Drilled: 12/04/06
Equip. Used: Diedrich D-50
Surface Elev.: 698.0

Groundwater Observations

	Date	Time	Depth
Encountered:	12/04/06		none
Completion:	12/04/06		dry

Depth (ft.)	Strata Description	Class.	Str'm	Elev.	InSitu Testing Depth	Test Data	M (%)	Remarks
—	brown silty sand FILL with gravel		GF	696.5	—	3+2+	37.7	
—					—	3+28		
—	brown processed ash FILL		PF2		—	50/1"	21.0	
5					5	50/2"		
—					—	12+11+	29.8	
10					10	12+23	11.3	
—				686.5	—	26+16+		
—	gray/brown silty sand refuse FILL with brick and plastic fragments		G		—	12+8	12.3	
15	construction debris FILL with fabric and wood fragments				15	7+11+		
—					—	15+6		
20	construction debris FILL with concrete and wood fragments				20	40+53+	9.8	
—					—	11+18		
25	construction debris FILL with wood and brick fragments, trace concrete fragments				25	3+5+		
—					—	3+5		
30					30	4+10+		
—					—	17+19		
35	gray sandy silt FILL			662.0	35	2+2+	15.2	
—					—	9+50/1"	13.9	
—	gray DISINTEGRATED ROCK with silty sand		DR	659.2	—			
40	Auger Refusal at 38.8 feet Bottom of Boring at 38.8 feet				40			

Comments: Backfilled upon completion.

TEST BORING LOG

Project: Hanover Crossings
Hanover Township, PA

Test Loc. No.: **EC-5**
Contract No.: **06018.1**

Page 1 of 2

ME, Inc. Rep.: T. Ludka
Date Drilled: 12/06/06
Equip. Used: Diedrich D-50
Surface Elev.: 698.8

Groundwater Observations

	Date	Time	Depth
Encountered:	12/05/06		50.0'
Completion:	12/06/06		50.0'

Depth (ft.)	Strata Description	Class.	Str'm	Elev.	InSitu Depth	Testing Test Data	M (%)	Remarks
	brown silty sand FILL		GF	697.8		5+12+		
	red/brown processed ash FILL		PF1			50/4"		
5					5	5+3+ 3+2 1+3+ 2+3 3+3+ 3+4		
10	gray/brown processed ash FILL			687.3	10	10+12+ 11+9		
15	gray silty sand and rock fragment FILL		G		15	11+8+ 53+50/1"		
20	brown/gray silty sand and refuse FILL with brick and wood fragments				20	6+11+ 12+11		
25					25	8+7+ 6+5		
30	construction debris FILL with ash, concrete and coal fragments				30	9+11+ 7+11		
35	brown/gray silty sand and refuse FILL with brick and wood fragments				35	3+9+ 11+13		
40	continued on next page				40			

Comments: Backfilled upon completion.



MIDLANTIC ENGINEERING

TEST BORING LOG

Project: Hanover Crossings
Hanover Township, PA

Test Loc. No.: **EC-5**
Contract No.: **06018.1**

Page 2 of 2

ME, Inc. Rep.: T. Ludka
Date Drilled: 12/06/06
Equip. Used: Diedrich D-50
Surface Elev.: 698.8

Groundwater Observations

	Date	Time	Depth
Encountered:	12/05/06		5.0'
Completion:	12/06/06		5.0'

Depth (ft.)	Strata Description	Class.	Str'm	Elev.	InSitu Depth	Testing Test Data	M (%)	Remarks
45	brown/gray silty sand and refuse FILL with brick and wood fragments		G			6+10+ 12+13		
50	black/brown silty sand FILL with trace wood fragments					7+9+ 7+7		
55						12+12+ 12+47		
60	gray/brown silty sand FILL with plastic, wood, and glass fragments					16+20+ 20+17		
65				632.8		7+13+ 19+29 13+6+ 6+9 20+22+ 28+10		
	brown silty sand FILL with gravel		F	630.8		9+18+ 38+14		
70	Bottom of Boring at 68.0 feet							
75								
80								

Comments: Backfilled upon completion.

TEST BORING LOG

Project: Hanover Crossings
Hanover Township, PA

Test Loc. No.: **EC-6**
Contract No.: **06018.1**

Page 1 of 2

ME, Inc. Rep.: T. Ludka
Date Drilled: 12/04/06
Equip. Used: Diedrich D-50
Surface Elev.: 696.4

Groundwater Observations

	Date	Time	Depth
Encountered:	12/04/06		none
Completion:	12/04/06		dry

Depth (ft.)	Strata Description	Class.	Str'm	Elev.	InSitu Depth	Testing Test Data	M (%)	Remarks
	brown silty sand FILL		GF	695.4		2+3+		
	red/brown processed ash FILL		PF2			23+16 41+50/3"		
5	gray/brown silty sand FILL trace wood fragments		G	691.2	5	12+10+ 10+11 17+13+ 11+7		
10	construction debris FILL with wood and brick fragments, rubber, metal, fabric and carpet fragments				10	2+2+ 3+4		
15					15	3+6+ 11+8		
20	construction debris FILL with wood, rubber, plastic, and brick fragments				20	3+5+ 4+7		
25	construction debris FILL with wood and brick fragments				25	5+5+ 4+2		
30	construction debris FILL with wood, brick, and concrete fragments				30	2+1+ 3+8		
35	gray/brown silty sand FILL with gravel, wood & plastic fragments			658.9	35	5+4+ 5+10		
40	gray/black silty sand FILL with coal fragments		F	656.4	40			
continued on next page								

Comments: Backfilled upon completion.



MIDLANTIC ENGINEERING

TEST BORING LOG

Project: Hanover Crossings
Hanover Township, PA

Test Loc. No.: **EC-6**
Contract No.: **06018.1**

Page 2 of 2

ME, Inc. Rep.: T. Ludka
Date Drilled: 12/04/06
Equip. Used: Diedrich D-50
Surface Elev.:

Groundwater Observations

	Date	Time	Depth
Encountered:	12/04/06		none
Completion:	12/04/06		dry

Depth (ft.)	Strata Description	Class.	Str'm	Elev.	InSitu Depth	Testing Test Data	M (%)	Remarks
45	gray/black DISINTEGRATED ANTHRACITE COAL		DR			14+60+ 50/2"		
50	gray DISINTEGRATED ROCK			645.9		30+50/2"		
50	Bottom of Boring at 50.5 feet					100/4"		
55								
60								
65								
70								
75								
80								

Comments: Backfilled upon completion.



TEST BORING LOG

Project: Hanover Crossings
Hanover Township, PA

Test Loc. No.: **EC-7**
Contract No.: **06018.1**

ME, Inc. Rep.: T. Ludka
Date Drilled: 12/05/06
Equip. Used: Diedrich D-50
Surface Elev.: 706.0

Groundwater Observations		
Date	Time	Depth
Encountered: 12/05/06		none
Completion: 12/05/06		dry

Depth (ft.)	Strata Description	Class.	Str'm	Elev.	InSitu Testing Depth	Test Data	M (%)	Remarks
5	gray/brown silty sand FILL with gravel, trace wood fragments		GF	699.0	20+15+ 7+4 8+6+ 5+4			
10	construction debris FILL with plastic, ash, wood, concrete and brick fragments, trace silty sand		G		11+5+ 4+3 5+6+ 8+7			
15					11+7+ 9+7			
20	gray silty sand FILL with gravel, trace brick fragments, cinders and ash			682.0	7+9+ 5+25			
25	gray DISINTEGRATED ROCK		DR	680.0	9+6+ 6+6			
30	Auger Refusal at 26.0 feet Bottom of Boring at 26.0 feet				100/2"			
35								
40								

Comments: Backfilled upon completion.



TEST BORING LOG

Project: Hanover Crossings
Hanover Township, PA

Test Loc. No.: **EC-8**
Contract No.: **06018.1**

ME, Inc. Rep.: T. Ludka
Date Drilled: 12/05/06
Equip. Used: Diedrich D-50
Surface Elev.: 705.0

Groundwater Observations		
	Date	Time
Encountered:	12/05/06	
Completion:	12/05/06	
		Depth
		none
		dry

Depth (ft.)	Strata Description	Class.	Str'm	Elev.	InSitu Testing Depth	Test Data	M (%)	Remarks
5	brown silty sand FILL with gravel		GF	699.8	5	6+8+ 8+8 11+18+ 13+8		
10	gray silty sand FILL, wood frags. brown/gray silty sand FILL trace wood and brick fragments		G		10	2+5+ 6+6 5+8+ 10+7		
15	brown/gray silty sand FILL with wood fragments				15	2+3+ 4+50/3"		
20	construction debris FILL with concrete and brick fragments				20	6+21+ 16+14		
25	construction debris FILL with wood fragments, trace silty sand and brick fragments				25	4+7+ 5+13		
30	gray/brown silty sand FILL with ash, brick, concrete and wood fragments			675.0	30	16+11+ 12+12		
35	brown/gray silty sand FILL with gravel		F	672.5	35	8+10+ 8+14		
	gray DISINTEGRATED ROCK		DR	670.0		100/1"		
40	Auger Refusal at 35.0 feet Bottom of Boring at 35.0 feet				40			

Comments: Backfilled upon completion.

TEST BORING LOG

Project: Hanover Crossings
Hanover Township, PA

Test Loc. No.: **EC-9**
Contract No.: **06018.1**

Page 1 of 2

ME, Inc. Rep.: T. Ludka
Date Drilled: 12/05/06
Equip. Used: Diedrich D-50
Surface Elev.: 702.1

Groundwater Observations

	Date	Time	Depth
Encountered:	12/05/06		34.8'
Completion:	12/05/06		34.8'

Depth (ft.)	Strata Description	Class.	Str'm	Elev.	InSitu Depth	Testing Test Data	M (%)	Remarks
5	brown silty sand FILL, trace gravel		GF			5+5+ 5+4 4+6+ 2+1	16.9	
@ 5' to 7':	with topsoil & organics			693.1	5	1+3+ 2+3 3+4+ 5 +4	23.2 24.1	
10	construction debris FILL with wood, brick, and plastic fragments, trace silty sand		G		10	6+5+ 6+10		
15					15	8+23+ 11+13		
20	gray sandy silt FILL with wood fragments				20	6+6+ 8+14	16.0	
25	construction debris FILL with wood fragments				25	7+27+ 17+10		
30	construction debris FILL with concrete fragments, trace silty sand				30	6+6+ 5+6	26.6	
35	gray silty sand FILL with ash, wood and brick fragments				35	22+4+ 10+12	16.5 31.4	
40	gray DISINTEGRATED ROCK continued on next page		DR	663.1	40	100/2"		

Comments: Backfilled upon completion.



MIDLANTIC ENGINEERING

TEST BORING LOG

Project: Hanover Crossings
Hanover Township, PA

Test Loc. No.: **EC-9**
Contract No.: **06018.1**

Page 2 of 2

ME, Inc. Rep.: T. Ludka
Date Drilled: 12/05/06
Equip. Used: Diedrich D-50
Surface Elev.: 702.1

Groundwater Observations

	Date	Time	Depth
Encountered:	12/05/06		none
Completion:	12/05/06		dry

Depth (ft.)	Strata Description	Class.	Str'm	Elev.	InSitu Depth	Testing Test Data	M (%)	Remarks
	gray DISINTEGRATED ROCK		DR	660.1				
	Auger Refusal at 42.0 feet Bottom of Boring at 42.0 feet							
45					45			
10					10			
15					15			
20					20			
25					25			
30					30			
35					35			
40					40			

Comments: Backfilled upon completion.



Geo-Science Engineering Co., Inc.
CONSULTING GEOTECHNICAL ENGINEERS

LOG OF BORING

BORING NO.

B-20

SHEET

OF

1

1

PROJECT Business ParkSTATION N 100Middle Road - Hanover, PennsylvaniaOFFSET E 1,485EXPLORATION CONTRACTOR Pocono Test Borings & Drilling Co., Inc.STARTED 6-24-98

ENGINEER REP.

LOGGED BY J. SippleCOMPLETED 6-25-98

GROUNDWATER

ENCOUNTERED DURING

DRILLING AT

▽

HOURS AFTER DRILLING

▽

HOURS AFTER DRILLING

▽

HOURS AFTER DRILLING

▽

BORING METHOD

☐

HAND AUGER

☐

HOLLOW STEM AUGER

☐

CONTINUOUS FLIGHT AUGER

☒

DRIVING CASING

☐

ROTARY (MUD) DRILLING

DEPTH MUD STARTED

SAMPLER TYPE AND DATA

☒SPLIT BARREL SPT☐

UNDISTURBED SAMPLE

☐

AUGER

☐ROCK CORE Core☐☐

■ PPR (tsf) ■
1.0 2.0 3.0 4.0
◆ TORVANE (tsf) ◆
1.0 2.0 3.0 4.0
▲ Qu (tsf) ▲
1.0 2.0 3.0 4.0
● BLOW COUNT ●
20 40 60 80

SOIL DESCRIPTION

SANDY SILT (ML) brown, loose

SANDSTONE brown, broken, shaly sandstone

BOTTOM OF HOLE AT 15.00 FEET

DEPTH AND ELEV. (FT)	SAMPLE/CORE				WATER LEVEL SYMBOLIC LOG
	NUMBER	LEGEND	SPT VALUES	CORE REC. %	
			7 70		
				100	20
695.0				83	0
690.0				90	0
685.0					

REMARKS: BOTTOM OF HOLE AT 15.00 FEET



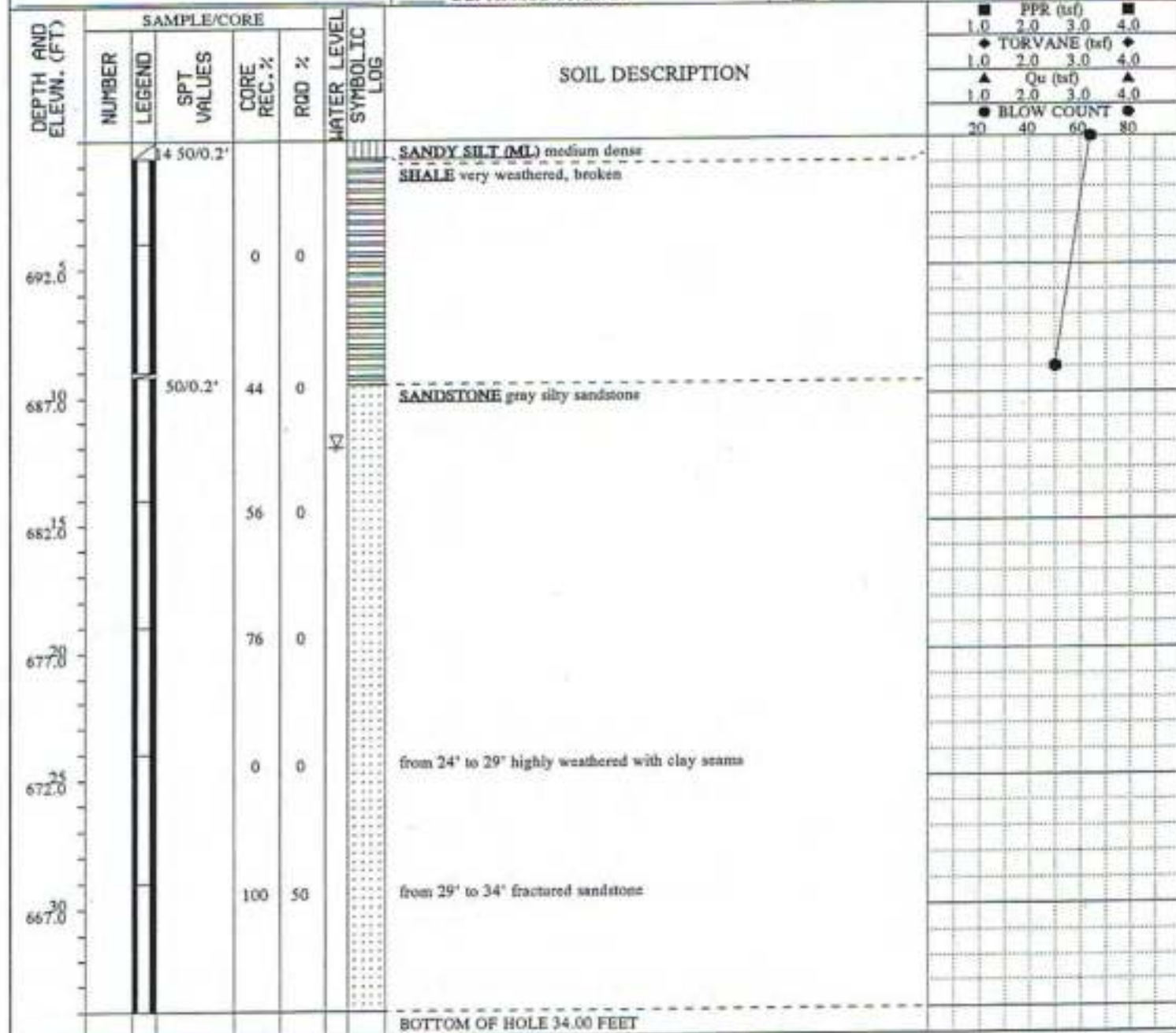
Geo-Science Engineering Co., Inc.
CONSULTING GEOTECHNICAL ENGINEERS

LOG OF BORING

BORING NO.	B-21	
SHEET	OF	
1	1	

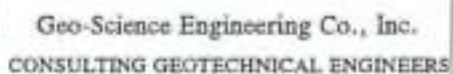
PROJECT Business Park STATION N 1,075
Middle Road - Hanover, Pennsylvania OFFSET E 1,400
 EXPLORATION CONTRACTOR Pocono Test Borings & Drilling Co., Inc. STARTED 6-25-98
 ENGINEER REP. F. Sipple LOGGED BY F. Sipple COMPLETED 6-25-98

GROUNDWATER ENCOUNTERED DURING DRILLING AT <u>12.00</u> ∇ HOURS AFTER DRILLING <u>7</u> HOURS AFTER DRILLING <u>7</u> HOURS AFTER DRILLING <u>7</u>		BORING METHOD <input type="checkbox"/> HAND AUGER <input type="checkbox"/> HOLLOW STEM AUGER <input type="checkbox"/> CONTINUOUS FLIGHT AUGER <input checked="" type="checkbox"/> DRIVING CASING <input type="checkbox"/> ROTARY (MUD) DRILLING DEPTH MUD STARTED _____		SAMPLER TYPE AND DATA <input checked="" type="checkbox"/> S SPLIT BARREL <u>SPT</u> <input type="checkbox"/> U UNDISTURBED SAMPLE _____ <input type="checkbox"/> A AUGER _____ <input type="checkbox"/> C ROCK CORE <u>Core</u>	
--	--	--	--	--	--



REMARKS: BOTTOM OF HOLE AT 34.00 FEET

The stratification lines represent approximate boundaries between soil types. In situ the transition may be gradual.



B-27	
SHEET	OF
1	1

PROJECT	<u>Business Park</u>	STATION	<u>N 620</u>
	<u>Middle Road - Hanover, Pennsylvania</u>	OFFSET	<u>E 140</u>
EXPLORATION CONTRACTOR	<u>Pocono Test Borings & Drilling Co., Inc.</u>	STARTED	<u>6-30-98</u>
ENGINEER REP.	LOGGED BY <u>J. Siple</u>	COMPLETED	<u>6-30-98</u>

SAMPLER TYPE AND DATA

<input type="checkbox"/>	HAND AUGER
<input type="checkbox"/>	HOLLOW STEM AUGER
<input type="checkbox"/>	CONTINUOUS FLIGHT AUGER
<input checked="" type="checkbox"/>	DRIVING CASING
<input type="checkbox"/>	ROTARY (MUD) DRILLING
	DEPTH MUD STARTED

S	SPLIT BARREL	SPT
U	UNDISTURBED SAMPLE	
A	AUGER	
C	ROCK CORE	Core

DEPTH AND ELEV. (FT.)	SAMPLE/CORE				WATER LEVEL SYMBOLIC LOG	SOIL DESCRIPTION	PPR (tsf)				
	NUMBER	LEGEND	SPT VALUES	CORE REC. %			RQD %	1.0	2.0	3.0	4.0
			9 8 7 8								◆ TORVANE (tsf) ◆ 1.0 2.0 3.0 4.0 ▲ Q _u (tsf) ▲ 1.0 2.0 3.0 4.0 ● BLOW COUNT ● 20 40 60 80
			11 21 32 35				SANDY SILT (ML) brown, stiff				
			65/0.5'				SHALE brown, decomposed, weathered shale, fragments				
654.0			65/0.3'								
			70/0.4'				from 8' to 22' broken, fractured, brown to gray brown shale				
649.0				100	0						
644.0				67	0						
				100	0						
639.0											
							BOTTOM OF HOLE AT 22.00 FEET				

REMARKS: BOTTOM OF HOLE AT 22.00 FEET

The stratification lines represent approximate boundaries between soil types; insitu the transition may be gradual.



Geo-Science Engineering Co., Inc.
CONSULTING GEOTECHNICAL ENGINEERS

LOG OF BORING

B-28A

SHEET

OF

1

1

PROJECT Business Park
Middle Road - Hanover, Pennsylvania

STATION N 1,400

OFFSET E 310

EXPLORATION CONTRACTOR _____

STARTED 6-24-98

ENGINEER REP. _____

LOGGED BY F. Sipple

COMPLETED 6-24-98

GROUNDWATER

ENCOUNTERED DURING

DRILLING AT 3.00 ☒

HOURS AFTER DRILLING Y

HOURS AFTER DRILLING Y

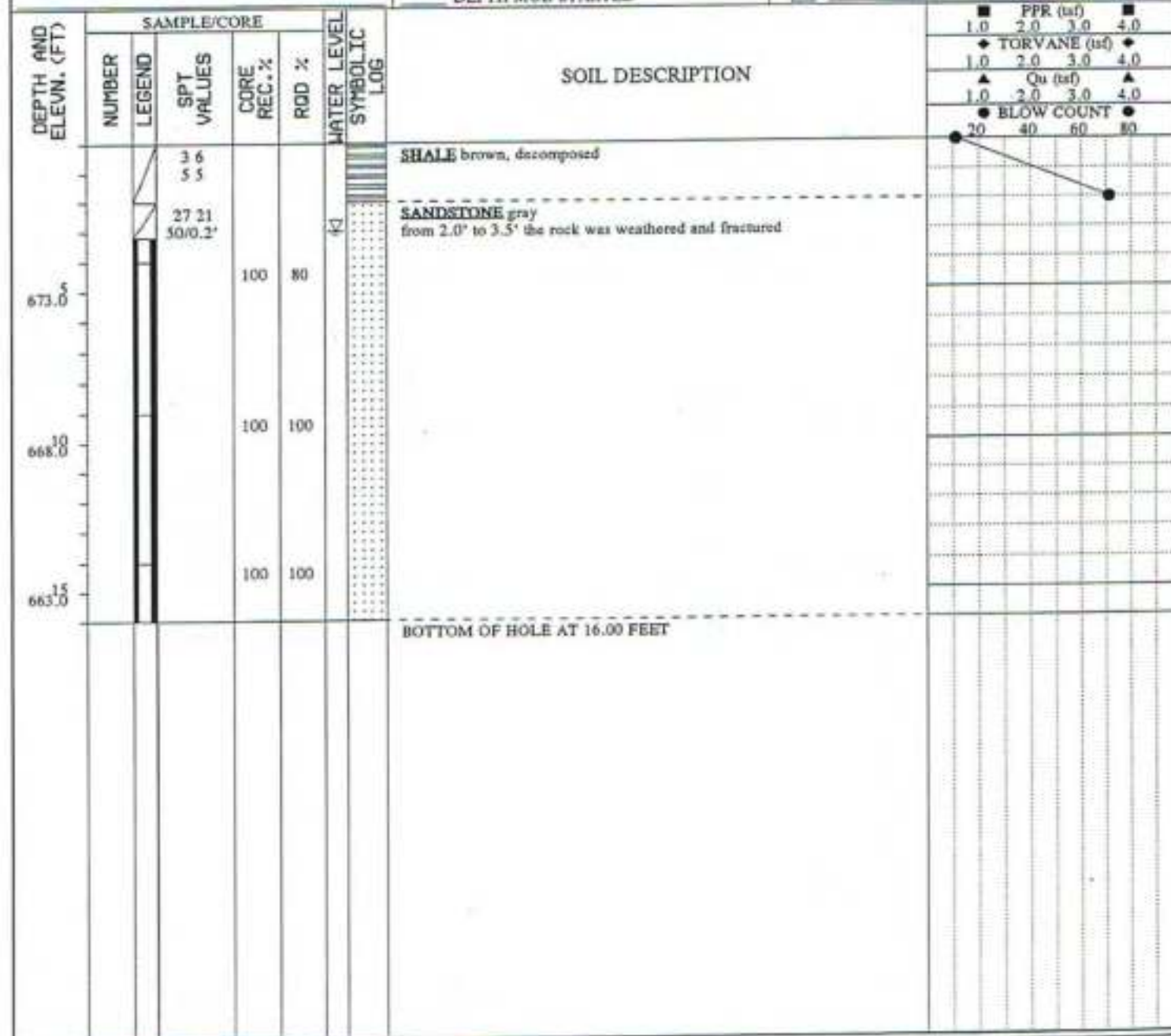
HOURS AFTER DRILLING Y

BORING METHOD

- ☐ HAND AUGER
☐ HOLLOW STEM AUGER
☐ CONTINUOUS FLIGHT AUGER
☐ DRIVING CASING
☐ ROTARY (MUD) DRILLING
☐ DEPTH MUD STARTED

SAMPLER TYPE AND DATA

- ☒ S SPLIT BARREL
☐ U UNDISTURBED SAMPLE
☐ A AUGER
☐ C ROCK CORE



REMARKS: BOTTOM OF HOLE AT 16.00 FEET

The stratification lines represent approximate boundaries between soil types: Insitu the transition may be gradual.



Geo-Science Engineering Co., Inc.
CONSULTING GEOTECHNICAL ENGINEERS

LOG OF BORING

B-29
SHEET 1 OF 1

PROJECT Business Park STATION N 1,200
Middle Road - Hanover, Pennsylvania OFFSET E 240
EXPLORATION CONTRACTOR Pocono Test Borings & Drilling Co., Inc. STARTED 6-26-98
ENGINEER REP. J. Sipple COMPLETED 6-26-98

GROUNDWATER

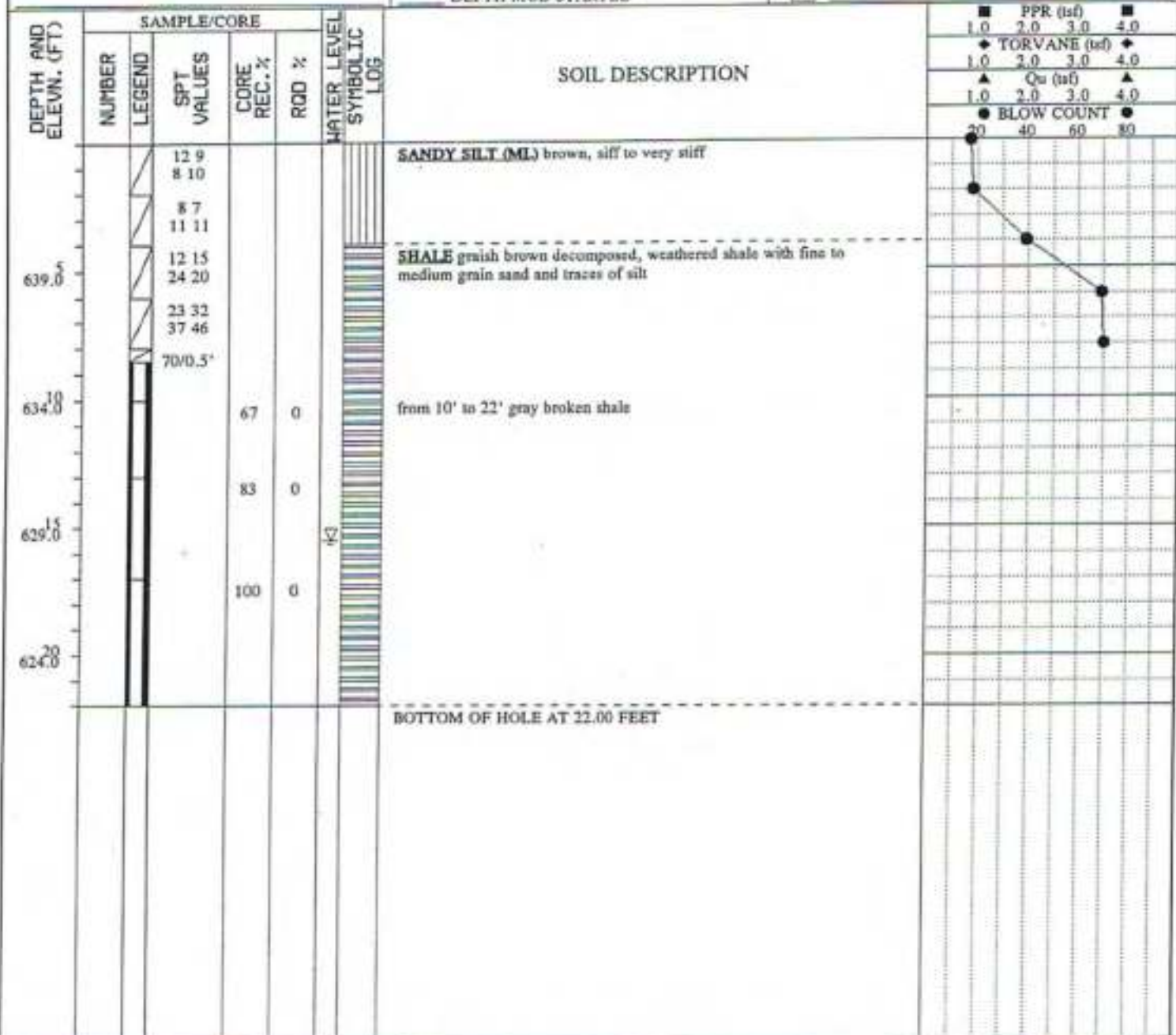
ENCOUNTERED DURING
DRILLING AT 15.50 ▽
HOURS AFTER DRILLING ▽
HOURS AFTER DRILLING ▽
HOURS AFTER DRILLING ▽

BORING METHOD

☐ HAND AUGER
☐ HOLLOW STEM AUGER
☐ CONTINUOUS FLIGHT AUGER
☒ DRIVING CASING
☐ ROTARY (MUD) DRILLING
DEPTH MUD STARTED

SAMPLER TYPE AND DATA

☒ S SPLIT BARREL SPT
☐ U UNDISTURBED SAMPLE
☐ A AUGER
☐ C ROCK CORE Core



REMARKS: BOTTOM OF HOLE AT 22.00 FEET

The stratification lines represent approximate boundaries between soil types. In situ the transition may be gradual.



Geo-Science Engineering Co., Inc.
CONSULTING GEOTECHNICAL ENGINEERS

LOG OF BORING

B-30

SHEET

OF

1

1

PROJECT Business Park

STATION N 50

Middle Road - Hanover, Pennsylvania

OFFSET E 985

EXPLORATION CONTRACTOR Pocono Test Borings & Drilling Co., Inc.

STARTED 6-24-98

ENGINEER REP.

LOGGED BY F. Sipple

COMPLETED 6-24-98

GROUNDWATER

ENCOUNTERED DURING

DRILLING AT

HOURS AFTER DRILLING

HOURS AFTER DRILLING

HOURS AFTER DRILLING

BORING METHOD

- ☐ HAND AUGER
☐ HOLLOW STEM AUGER
☐ CONTINUOUS FLIGHT AUGER
☒ DRIVING CASING
☐ ROTARY (MUD) DRILLING
☐ DEPTH MUD STARTED

SAMPLER TYPE AND DATA

- ☒ S SPLIT BARREL SPT
☐ U UNDISTURBED SAMPLE
☐ A AUGER
☐ C ROCK CORE Core

DEPTH AND ELEV. (FT)	SAMPLE/CORE				WATER LEVEL SYMBOLIC LOG	SOIL DESCRIPTION	FPR (tsf)			
	NUMBER	LEGEND	SPT VALUES	CORE REC. %			1.0	2.0	3.0	4.0
			5 6 10 50			SANDY SILT (ML) brown, very stiff				
						SANDSTONE weathered broken sandstone fragments				
695.0				100	26	from 5' to 15' brown gray fractured sandstone				
690.0				100	22					
685.0						BOTTOM OF HOLE AT 15.00 FEET				

REMARKS: BOTTOM OF HOLE AT 15.00 FEET

The stratification lines represent approximate boundaries between soil types. In situ the transition may be gradual.



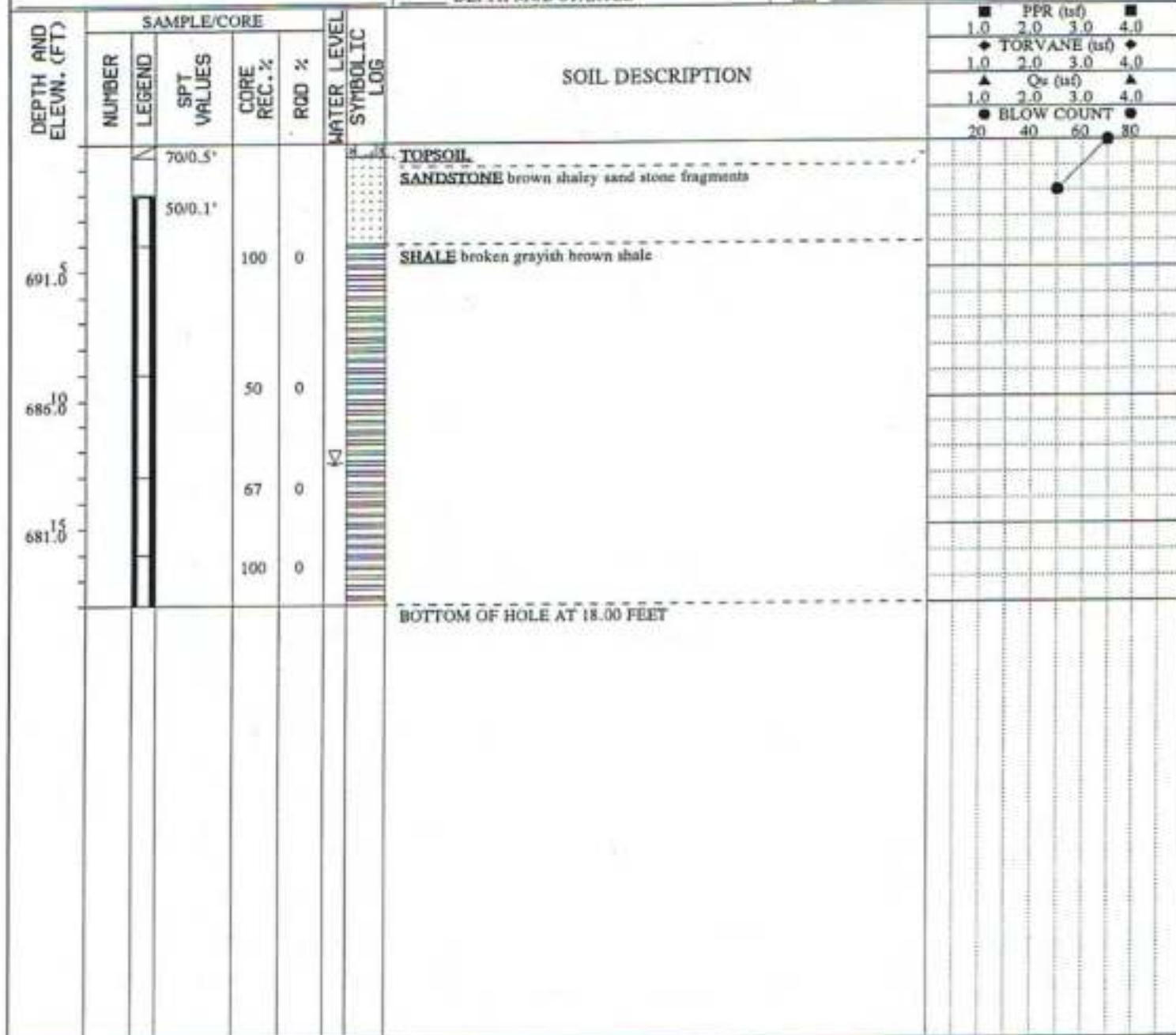
Geo-Science Engineering Co., Inc.
CONSULTING GEOTECHNICAL ENGINEERS

LOG OF BORING

BORING NO. **B-31**
SHEET **1** OF **1**

PROJECT **Business Park** STATION **N 850**
Middle Road - Hanover, Pennsylvania OFFSET **E 790**
EXPLORATION CONTRACTOR **Pocono Test Borings & Drilling Co., Inc.** STARTED **6-25-98**
ENGINEER REP. **F. Sipple** LOGGED BY **F. Sipple** COMPLETED **6-25-98**

GROUNDWATER		BORING METHOD		SAMPLER TYPE AND DATA	
ENCOUNTERED DURING		<input type="checkbox"/> HAND AUGER		<input checked="" type="checkbox"/> SPLIT BARREL	SPT
DRILLING AT	12.50	<input type="checkbox"/> HOLLOW STEM AUGER		<input type="checkbox"/> UNDISTURBED SAMPLE	
HOURS AFTER DRILLING	1	<input type="checkbox"/> CONTINUOUS FLIGHT AUGER		<input type="checkbox"/> AUGER	
HOURS AFTER DRILLING	1	<input checked="" type="checkbox"/> DRIVING CASING		<input checked="" type="checkbox"/> ROCK CORE	Core
HOURS AFTER DRILLING	1	<input type="checkbox"/> ROTARY (MUD) DRILLING			
		DEPTH MUD STARTED			



REMARKS: **BOTTOM OF HOLE AT 18.00 FEET**

The stratification lines represent approximate boundaries between soil types: Initially the transition may be gradual.

POCONO TEST BORINGS
& DRILLING CO., INC.

TEST BORING LOG

BORING NO. WB2

SHT. NO. 10F 2

STATION

OFFSET

ELEVATION 691

DATE START 11-17-98

DATE FINISH 11-18-98

DRILLER Frank Sipple

INSPECTOR Tom

PROJECT Hanover Twp. Landfill

CLIENT Midlantic Engineering

LOCATION Hanover Twp. Pa

GROUND WATER

DATE	TIME	DEPTH	CASING	TYPE	CAS.	SAMP.	CORE	TUBE
11-18-98	8:30am	Dry	0	auger	2"	SS	/	/
				DIA.		2"		
				WT.		140		
				FALL		30"		

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
2.0		1	3	0.7	Brown Sandy Clay, Plastic, Wood, Brick	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used..... How Many Bags?.....
			6			
			7			
			4			
4.0		2	6	0.3	Wood, Cinders, Sand	
			3			
			5			
			4			
5.0						
7.0		3	6	0.5	Gray Sandy Clay with Shale Fragments Cinders, Wood, Gravel	
			6			
			8			
			6			
9.0		4	6	0.2	Plastic, Wood, Sandy Clay	
			3			
			4			
			2			
10.0						
		5	2	0.8	Brown Silty Sand with Weathered Sandstone	
			3			
			12			
12.0			33			
15.0						
		6	3	0.4	Brown Sandy Clay with Insulation Fiber Gravel	
			1			
			2			
17.0			1			
20.0						
		7	2	0.1	Yellow Insulation	
			3			
			2			
22.0			3			

TEST BORING LOG

INSPECTOR Tom

LOCATION Hanover Twp., Pa

GROUND WATER

100

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
2.0		1	5	0.5	Brown Sandy Clay with Gravel	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used..... How Many Bags?.....
			3			
			3			
			2			
4.0		2	3	0.4	Wood, Brick, Gravel, Brown Sand, Plastic	
			2			
			2			
			2			
5.0		3	1	0.5	Brick, Wood, Coal, Silty Clay, Gravel	
			1			
			2			
			2			
7.0		4	2	0.4	Same	
			5			
			3			
			4			
10.0		5	1	0.6	Brown Silty Clay, Coal Fragments, Wood, Plastic, Gravel	
			1			
			2			
			2			
15.0		6	1	0.4	Same	
			2			
			2			
			2			
19.0					Auger Refusal at 19.0' Spoon Refusal at 19.0' Bottom of Hole 19.0'	
			50/0.0			

[illegible]

POCONO TEST BORINGS
& DRILLING CO., INC.

TEST BORING LOG

BORING NO. WB5

SHT. NO. 10F 2

PROJECT Hanover Twp. Landfill

CLIENT Midlantic Engineering

LOCATION Hanover Twp. Pa

STATION

OFFSET

ELEVATION 695

GROUND WATER

DATE TIME DEPTH CASING

11-17-98 11AM Dry 0

CAS.	SAMP.	CORE	TUBE
TYPE auger	SS	/	/
DIA. 2 1/2	2"		
WT.	140		
FALL	30		

DATE START 11-17-98

DATE FINISH 11-17-98

DRILLER Frank Sipple

INSPECTOR Tom

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
2.0		1	2	0.3	Brown Sandy Clay with Wood and Gravel	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used..... How Many Bags?.....
			3			
			5			
			8			
		2	18	0.6	Wood, Brick, Silty Sand, Gravel	
			16			
			13			
			18			
4.0						
5.0		3	3	0.4	Brick, Wood, Paper	
			5			
			4			
7.0			7			
		4	5	0.3	Gray Sandy Clay with Fine Gravel, Wood, Paper, Brick	
			12			
			8			
9.0			44			
10.0						
		5	4	0.3	Metal, Wood, Brick, Gravel	
			2			
			2			
12.0			4			
15.0			4			
		6	7	0.4	Wood and Brick	
			6			
			7			
17.0						
20.0			12			
		7	5	0.5	Same	
			5			
			16			
22.0						

TEST BORING LOG

INSPECTOR Tom

LOCATION	Hanover Twp., Pa
----------	------------------

GROUND WATER

DATE	TIME	DEPTH	CASING
11-16-98	3:30PM	Dry	0

	GAS.	SAMP.	CORE	TUBE
TYPE	auger	SS	/	
DIA.	2 1/2	2"		
WT.		140		
FALL		30"		

[illegible]

POCONO TEST BORINGS
& DRILLING CO., INC.

TEST BORING LOG

BORING NO. WB7

SHT. NO. 10F 1

STATION

OFFSET

ELEVATION 697

PROJECT Hanover Twp Landfill

CLIENT Midlantic Engineering

LOCATION Hanover Twp., Pa

GROUND WATER

DATE	TIME	DEPTH	CASING	TYPE	CAS.	SAMP.	CORE	TUBE
11-16-98	2 PM	Dry	0	DIA.	2 1/2	2"		
				WT.		140		
				FALL		30"		

DATE START 11-16-98

DATE FINISH 11-16-98

DRILLER Frank Sipple

INSPECTOR Tom

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
2.0		1	1 2 3 2	0.6	Brown Clayey Silt with Some Brick, Rock Fragments	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used..... How Many Bags?.....
4.0		2	2 2 2 4	0.2	Brown Sandy Clay with Ashes, Brick Fragments	
5.0		3	2 4 6 8	0.8	Wood, Brick, Silty Clay, Gravel	
7.0		4	12 7 9 9	0.4	Brick, Cinders, Wood, Concrete Fragments	
10.0		5	1 1 3 4	0.2	Brick, Wood, Silty Sand	Bottom of Garbage 13.0'
15.0		6	9 39 50/0.1	1.0	Brown Sandy Silt with Sandstone Fragments Refusal on spoon 16.1' Auger Drilled very hard from 16.0'-20.0'	
20.0					Refusal on spoon 20.0' Bottom of Hole 20.0'	

BORING NO. WB8

STATION

OFFSET

ELEVATION 698

TUBE

DATE START 11-18-98

DATE FINISH 11-18-98

DRILLER Frank Sipple

INSPECTOR Tom

[illegible]

**POCONO TEST BORINGS
& DRILLING CO., INC.**

TEST BORING LOG

BORING NO. WB88A

SHT. NO. 10F 1

STATION

OFFSET

ELEVATION 698

DATE START 11-18-98

DATE FINISH 11-18-98

DRILLER Frank Sipple

INSPECTOR Tom

PROJECT Hanover Twp. Landfill

CLIENT Midlantic Engineering

LOCATION Hanover Twp., Pa

GROUND WATER

DATE	TIME	DEPTH	CASING	TYPE	CAS. auger	SAMP. SS	CORE /	TUBE /
11-18-98	3 PM	Dry	0	DIA.	2 1/2	2"		
				WT.		140		
				FALL		30"		

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
					Brick, Concrete, Wood, Sand and Gravel	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used..... How Many Bags?.....
10.0		1	7 5 11 11	0.5	Brick, Wood, Concrete, Gravel, Sand	
12.0						
15.0		2	4 4 4 2	0.2	Wood, Gray Silty Sand	
17.0						
20.0					Auger refusal at 20.0' Spoon refusal at 20.0' Bottom of Hole 20.0'	

BOHRING NO. W69

ELEVATION 701

DATE START 11-19-98

DATE FINISH 11-19-98

DRILLER Frank Signola

DRILLER Frank Sippio
HISSETER Tom

INSPECTOR TOM

[illegible]

POCONO TEST BORINGS & DRILLING CO., INC.				TEST BORING LOG					BORING NO. WB11
PROJECT Hanover Twp. Landfill									SHT. NO. 10F 1
CLIENT Midlantic Engineering									STATION
LOCATION Hanover Twp., Pa									OFFSET
GROUND WATER					CAS.	SAMP.	CORE	TUBE	ELEVATION 695
DATE	TIME	DEPTH	CASING	TYPE	auger	SS	/	/	DATE START 11-17-98
11-17-98	comp of Dry	21.0'	21.0'	DIA.	2 1/2"	2"			DATE FINISH 11-17-98
	hole			WT.		140			DRILLER James Sipple
				FALL		30"			INSPECTOR Tom

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
		1	2	1.2	Black Sand-Cinders-Wood-Plastic, Fill	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used..... How Many Bags?.....
	A		2			
	U		2			
2.0	G		2			
	E	2	2	1.3	Same (Fill)	
	R		6			
	S		6			
4.0			7			
5.0						
		3	6	1.3	Shingles - Some Wood and Sand	
			6			
			7			
7.0			7			
		4	7	1.2	Gray Brown Coarse-Fine Sand and Gravel, Silt	
			7			
			9			
9.0			10			
10.0						
		5	5	0.6	Wood, Some Brown Sand and Gravel	
			5			
12.0			5			
			4			
15.0						
		6	7	1.7	Gray Brown Clayey Silt, Some Fine Sand and Gravel	
			8			
			8			
17.0			11			
20.0						
		7	50/0.2	0.2	Gray Sand, Some Silt, Trace Decomposed Sand, Auger Refusal at 21.0'	
21.0					Bottom of Hole 21.0'	

POCONO TEST BORINGS & DRILLING CO., INC.				TEST BORING LOG					BORING NO. WB12	
PROJECT Hanover Twp Landfill									SHT. NO. 10F 2	
CLIENT Midlantic Engineering									STATION	
LOCATION Hanover Twp., Pa									OFFSET	
GROUND WATER									ELEVATION 697	
DATE	TIME	DEPTH	CASING	TYPE	CAS.	SAMP.	CORE	TUBE	DATE START 11-16-98	
11-16-98	comp of	Dry	28.0	DIA.	2 1/2"	2"	/	/	DATE FINISH 11-16-98	
	hole			WT.		140			DRILLER James Sipple	
				FALL		30"			INSPECTOR Tom	

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
1.0	AUGER	1	3	1.0	Brown Sand, Silt, Gravel, Brick (Fill)	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used.....cuttings How Many Bags?.....
			5			
2.0			11			
			6			
3.0	2	2	7	0.5	Same, Some Plastic (Fill) Spoon springing out of hole	
			20			
			50/0			
4.0						
5.0		3	5	0.8	Black and Brown Sand, Silt, Wood (Fill)	
			7			
			12			
7.0		4	12			
			10	1.1	Black, Brown and Gray Sand and Silt, Some Cinders (Fill)	
			10			
			14			
9.0			16			
10.0						
		5	8	0.8	Gray Clayey Silt, with Some Sand, Gravel, Wood, Plastic (Fill)	
			10			
			10			
12.0			8			
15.0						
		6	4	1.1	Gray Clayey Silt with Sand and Gravel Some Wood (Fill)	
			4			
			3			
17.0			5			
20.0						
		7	5	1.7	Gray Clayey Silt with Fine Sand, Little Fine Gravel	
			8			
			9			
22.0			9			

POCONO TEST BORINGS & DRILLING CO., INC.					TEST BORING LOG					BORING NO. ^{WB13}	
PROJECT Hanover Twp. Landfill										SHT. NO. 10F 2	
CLIENT Midlantic Engineering										STATION	
LOCATION Hanover Twp., Pa										OFFSET	
GROUND WATER										ELEVATION 696	
DATE	TIME	DEPTH	CASING	TYPE	CAS. suger	SAMP. SS	CORE /	TUBE /	DATE START 11-16-98		
11-16-98	12 PM	Dry	0	DIA.	2 1/2	2"			DATE FINISH 11-16-98		
				WT.		140			DRILLER Frank Sipple		
				FALL		30"			INSPECTOR Tom		

DEPTH FEET-(IN)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
2.0		1	3	0.4	Brown Sandy Clay with Some Shale Fragments, Trace Fine Sand	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used..... How Many Bags?.....
			4			
			9			
			2			
4.0		2	8	0.3	Brown Sandy Clay with Rags, Paper, String, Brick, Rock Fragments	
			5			
			4			
			3			
5.0		3	2	0.3	Brown Sandy Silt with Brick, Wood, Some Gravel	
			15			
			6			
			4			
7.0		4	9	0.5	Brick, Wood, Brown Silty Sand with Some Fine-Medium Gravel	
			9			
			7			
			10			
10.0		5	10	0.6	Brown Silty Sand with Some Fine-Medium Gravel	
			13			
			13			
			14			
15.0		6	6	0.7	Gray Brown Silty Sand with Some Gravel, Wood, Brick	
			3			
			4			
			9			
20.0		7	17	0.8	Brown Sandy Clay with Sandstone Fragments	
			31			
			35			
			16			
22.0						

BORING NO. WB14

SHT. NO. 10F 1

PROJECT Hanover Twp Landfill

CLIENT	Midlantic Engineering
--------	-----------------------

LOCATION	Hanover Twp., Pa.
----------	-------------------

STATION

OFFSET

ELEVATION 694

DATE START 11-16-98

DATE START	11-16-98
DATE FINISH	11-16-98

DRILLER James Sipple

INSPECTOR	Tom
-----------	-----

GROUND WATER

DATE	TIME	DEPTH	CASING
------	------	-------	--------

DATE	TIME	DO
11-16-98	comp of Dry	

hole

TYPE

auger

SS

DIA

211

2"

WT.

140

FALL

30"

[illegible]

BORING NO. WB15

SHT. NO. 10F 1

STATION

OFFSET

ELEVATION 703

DATE START 11-16-98

DATE START 11-16-98

DATE FINISH 11-16-98

DRILLER James Sipple

INSPECTOR Tom

REMARKS

Gray Clayey Silt, Some Coarse-Fine Gravel

Was Bore Hole Grouted?

☐ YES ☒ NO

If Yes What Type Of Grout

Was Used: cuttings

How Many Bags?.....

2.0

1.7

[illegible]

Bottom of Hole 7.0'

POCONO TEST BORINGS & DRILLING CO., INC.				TEST BORING LOG				BORING NO. WB16	
PROJECT Hanover Twp. Landfill								SHT. NO. 10F 1	
CLIENT Midlantic Engineering								STATION	
LOCATION Hanover Twp., Pa								OFFSET	
GROUND WATER								ELEVATION 671	
DATE	TIME	DEPTH	CASING	TYPE	CAS. augers	SAMP. SS	CORE /	TUBE /	DATE START 11-17-98
11-17-98	comp of	Dry	23.0'	DIA.	2 1/2"	2"			DATE FINISH 11-17-98
	hole			WT.		140			DRILLER James Sipple
				FALL		30"			INSPECTOR Tom

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS	
2.0	A	1	6	1.6	Brown Sand and Silt, Little Fine Gravel	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used..... How Many Bags?.....	
	8						
	U		11				
	G		8				
4.0	E	2	2	0.7	Brown Sand, Silt, Brick, Plastic (Fill)		
	R		2				
	S		4				
			16				
5.0							
7.0		3	3	1.1	Gray Brown Clayey Silt with Cinders and Brick Fragments, Ashes (Fill)		
			3				
			4				
			4				
9.0		4	7	0.6	Wood, Cinders, Sand (Fill)		
			7				
			8				
			10				
10.0							
12.0		5	2	0.3	Brown and Gray Clayey Silt with Fine Sand and Gravel, Trace Wood (Fill)		
			2				
			2				
			3				
15.0							
17.0		6	4	1.2	Gray Clayey Silt with Sand, Gravel, Brick Wood, (Fill)		
			5				
			5				
			4				
20.0							
22.0		7	16	1.3	Gray Clayey Silt. Some Fine Gravel. Decomposed Sandstone 6" in tip of spoon Auger refusal at 23.0' Bottom of Hole 23.0'		
			17				
			22				
			75				
23.0							

**POCONO TEST BORINGS
& DRILLING CO., INC.**

TEST BORING LOG

BORING NO. W B17

SHT. NO. 10F 2

PROJECT Hanover Twp. Landfill

CLIENT Midlantic Engineering

LOCATION Hanover Twp. Pa

STATION

OFFSET

ELEVATION 664

GROUND WATER

DATE	TIME	DEPTH	CASING	TYPE	CAS. augers	SAMP. SS	CORE	TUBE
11-18-98	comp of hole	Dry	28.0'	DIA.	2 1/2"	2"		
				WT.		140		
				FALL		30"		

DATE START 11-18-98

DATE FINISH 11-18-98

DRILLER James Sipple

INSPECTOR Tom

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
			2			
	A	1	3	1.4	Brown Silt and Sand, Some Gravel, Ash, Cinders (Fill)	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	U		2			If Yes What Type Of Grout Was Used.....
2.0	G		2			Cuttings
	E		2			How Many Bags?.....
	R	2	2	0.5	Brown Silty Sand and Gravel	
	S		3			
4.0			6			
5.0						
		3	4	0.8	Brown Sand, Silt, Gravel, Brick (Fill)	
			3			
			3			
7.0			16			
		4	24	0.3	Same (Fill)	
			3			
			3			
9.0			6			
10.0						
		5	5	0.4	Brown Sand with Brick, Gravel, Cloth (Fill)	
			4			
			4			
12.0			2			
15.0						
		6	9	1.8	Gray Clayey Silt with Sand and Gravel, Some Pieces of Coal, Shale	
			7			
			9			
17.0			8			
20.0						
		7	10	1.5	Gray Brown Silty Sand, Some Sandstone Chips	
			7			
			8			
22.0			6			

POCONO TEST BORINGS & DRILLING CO., INC.				TEST BORING LOG				BORING NO. WB18	
PROJECT Hanover Twp. Landfill				SHT. NO. 10F 2				STATION	
CLIENT Midlantic Engineering				OFFSET				ELEVATION 689	
LOCATION Hanover Twp., Pa				DATE START 11-18-98				DATE FINISH 11-18-98	
GROUND WATER				CAS. SAMP. CORE TUBE				DRILLER James Sipple	
DATE	TIME	DEPTH	CASING	TYPE	auger	SS	/	/	INSPECTOR Tom
11-18-98	comp of	Dry	36.0	DIA.	2 1/2	2"			
	hole			WT.		140			
				FALL		30"			

DEPTH FEET (M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
2.0	A U G E R S	1	3	1.7	Black and Brown Sand and Silt, Some Gravel	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used..... How Many Bags?.....
			2			
			3			
			7			
4.0		2	4	1.2	Black Sand, Cinders, Brick (Fill)	
			4			
			3			
			5			
5.0		3	4	1.2	Black and Brown Silt, Sand with Wood and Brick (Fill)	
			5			
			5			
			10			
7.0		4	7	1.5	Brown Coarse-Fine Sand and Gravel, Some Silt	
			7			
			9			
			12			
9.0		5	4	0.4	Brown Fine Sand, Some Gravel, Trace Wood (Fill)	
			3			
			2			
			2			
10.0		6	7	1.0	Gray Clayey Silt, Little Sand, Trace Wood	
			7			
			9			
			10			
15.0		7	10	1.0	Gray Sand, Cinders, Brick Wood (Fill)	
			12			
			13			
			16			
20.0						
22.0						

POCONO TEST BORINGS & DRILLING CO., INC.				TEST BORING LOG				BORING NO. WB19	
								SHT. NO. 10F 2	
PROJECT Hanover Twp., Pa Landfill								STATION	
CLIENT Midlantic Engineering								OFFSET	
LOCATION Hanover Twp., Pa								ELEVATION 697	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATE START 11-19-98	
DATE	TIME	DEPTH	CASING	TYPE	auger	SS	/	/	DATE FINISH 11-19-98
11-19-98	comp of	Dry	31.0	DIA.	2 1/2"	2"			DRILLER James Sipple
	hole			WT.		140			INSPECTOR Tom
				FALL		30"			

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
1.0	A	1	4	1.1	Brown and Gray Sand and Gravel, Little Silt (Fill)	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used. <u>Cuttings.</u> How Many Bags?.....
	U		8			
2.0	G		16			
	S		12			
3.0	R	2	5	1.2	Same with Brick (Fill)	
	S		5			
4.0			6			
			7			
5.0						
		3	25	0.5	Wood with Some Sand (Fill)	
			3			
7.0			3			
		4	6	0.4	Brown Sand, Gravel, Silt, Brick, Wood (Fill)	
			6			
9.0			4			
			8			
10.0						
		5	5	0.5	Gray Brown Sand, Silt, Cinders, Wood, Brick (Fill)	
			5			
12.0			8			
			6			
15.0						
		6	38	0.8	Gray Clayey Silt with Wood, Brick, Concrete (Fill)	
			10			
17.0			5			
			5			
20.0						
		7	5	1.4	Gray and Brown Silt with Sand, Brick, Wood Gravel (Fill)	
			8			
22.0			12			
			10			

**POCONO TEST BORINGS
& DRILLING CO., INC.**

TEST BORING LOG

BORING NO. WB20

SHT. NO. 10F 1

PROJECT Hanover Twp Landfill

CLIENT Midlantic Engineering

LOCATION Hanover Twp., Pa

STATION

OFFSET

ELEVATION 698

GROUND WATER

DATE	TIME	DEPTH	CASING	TYPE	CAS.	SAMP.	CORE	TUBE
11-18-98	1 PM	Dry	0	DIA.	2 1/2	2"	/	/
				WT.		140		
				FALL		30"		

DATE START 11-18-98

DATE FINISH 11-18-98

DRILLER Frank Sipple

INSPECTOR Tom

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
2.0		1	3 5 4 16	0.6	Brick, Concrete, Gray Sandy Clay, Gravel	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used..... How Many Bags?.....
					Refusal on spoon at 2.0' Spoon Bouncing out of hole Possible Wood or Obstruction	
5.0		2	5 8 5 6	0.7	Gray Silty Sand with Gravel	
7.0		3	4 4 4 6	0.5	Gray Silty Sand with Some Brown Clay Brick Fragments, Fine Gravel	
9.0						
10.0		4	5 3 4 5	0.6	Gray Sandy Clay with Some Shale Fragments, Wood	
12.0						
15.0		5	9 50/0.1	0.2	Metal, Wood, Gravel, Refusal on spoon 15.6'	
20.0		6	15 20 50 50/0.1	0.7	Brown Weathered Sandstone	
					Spoon refusal at 21.6' Bottom of Hole 23.0'	
23.0						Augered to 23.0'

**POCONO TEST BORINGS
& DRILLING CO., INC.**

TEST BORING LOG

BORING NO. WB21

SHT. NO. 10F 2

PROJECT Hanover Twp. Landfill

CLIENT Midlantic Engineering

LOCATION Hanover Twp. , Pa

STATION

OFFSET

ELEVATION 683

GROUND WATER

DATE	TIME	DEPTH	CASING	TYPE	CAS.	SAMP.	CORE	TUBE
11-20-98	12 PM	Dry	0	DIA.	2 1/2	2"		
				WT.		140		
				FALL		30"		

DATE START 11-20-98

DATE FINISH 11-20-98

DRILLER Frank Sipple

INSPECTOR Tom

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS	
2.0		1	1	0.4	Brick, Wood, Brown Sandy Clay	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used..... How Many Bags?.....	
			1				
			4				
			4				
4.0		2	3	0.8	Brown Sandy Clay with Shale Pieces Brick Fragments, Wood		
			22				
			10				
			4				
5.0							
7.0		3	8	0.3	Brick, Asphalt, Silty Sand, Gravel		
			10				
			16				
			14				
9.0		4	6	0.4	Asphalt, Insulation, Gravel, Silty Sand		
			9				
			9				
			13				
10.0							
12.0		5	5	0.2	Wire, Brick, Sand		
			2				
			10				
			5				
15.0							
17.0		6	5	0.3	Brick, Wood, Concrete, Sand and Gravel		
			7				
			6				
			4				
20.0							
22.0		7	11	0.6	Brick, Wood, Concrete, Gray Silty Clay		
			19				
			12				
			7				

POCONO TEST BORINGS
& DRILLING CO., INC.

TEST BORING LOG

BORING NO. WB22

PROJECT Hanover Twp. Landfill

SHT. NO. 10F 1

CLIENT Midlantic Engineering

STATION

LOCATION Hanover Twp., Pa

OFFSET

GROUND WATER

ELEVATION 674

DATE	TIME	DEPTH	CASING	TYPE	CAS.	SAMP.	CORE	TUBE
11-20-98	9 AM	Dry	0	DIA.	2 1/2	2"	/	/
				WT.		140		
				FALL		30"		

DATE START 11-20-98

DATE FINISH 11-20-98

DRILLER Frank Sipple

INSPECTOR Tom

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
2.0		1	3	0.6	Plastic, Wood, Gray Sandy Silt, Gravel	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used..... How Many Bags?.....
			4			
			5			
			9			
		2	4	0.3	Same	
			2			
			1			
4.0			4			
5.0						
		3	21	0.4	Brown Silty Clay with Rock Fragments	
			54			
			11			
7.0			5			
		4	4	0.2	Brick, Concrete, Silty Clay	
			6			
			18			
9.0			10			
10.0						
		5	8	0.5	Same	
			13			
			5			
12.0			19			
15.0						
		6	6	0.3	Gray Silty Clay	
			9			
			7			
17.0			12			
20.0						
21.0		7	30	0.3	Brick, Wood, Trace Brown Till	
			50/0.1			
					Spoon refusal at 20.6'	
					Auger Refusal at 21.0'	
					Bottom of Hole 21.0'	

POCONO TEST BORINGS
& DRILLING CO., INC.

TEST BORING LOG

BORING NO. WB23

SHT. NO. 10F 1

PROJECT Hanover Twp Landfill

CLIENT Midlantic Engineering

LOCATION Hanover Twp., Pa

STATION

OFFSET

ELEVATION 662

DATE START 11-19-98

DATE FINISH 11-19-98

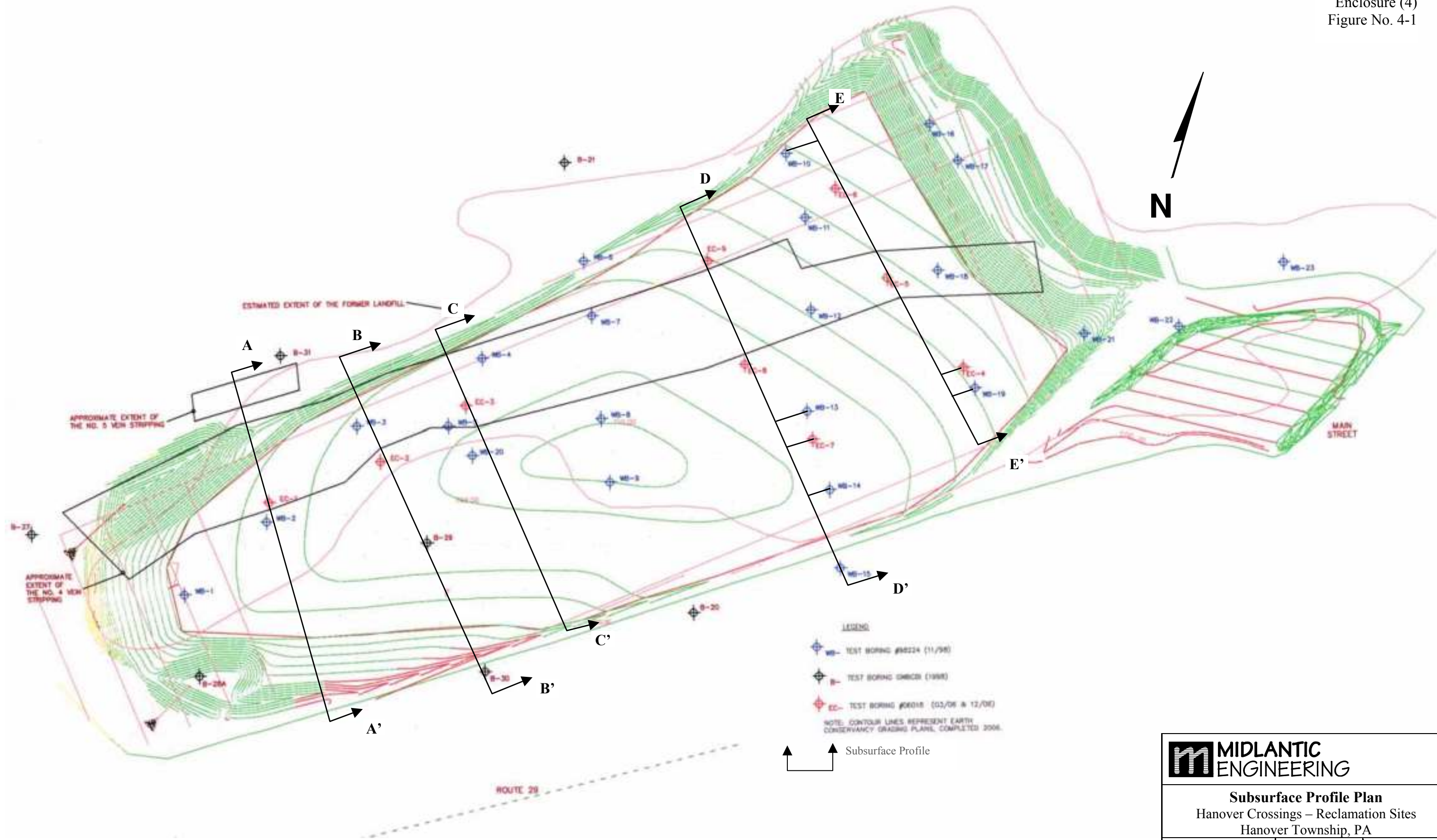
DRILLER Frank Sipple


INSPECTOR Tom

GROUND WATER

DATE	TIME	DEPTH	CASING	TYPE	CAS.	SAMP.	CORE	TUBE
11-19-98	3 PM	Dry	0	DIA.	2 1/2	2"	/	/
				WT.		140		
				FALL		30"		

DEPTH FEET-(M)	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON	SAMPLE RECOVERY	IDENTIFICATION	REMARKS
2.0		1	1	0.2	Dark Brown Sandy Clay with Glass	Was Bore Hole Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If Yes What Type Of Grout Was Used..... How Many Bags?.....
			1			
			1			
			1			
		2	2	0.3	Wood, Brick, Plastic, Gravel	
			1			
			1			
4.0			4			
5.0		3	4	0.2	Foam, Plastic, Wood, Brick Fragments, Gray Silty Sand	
			3			
			10			
7.0			2			
		4	4	0.1	Plastic, Cinders	
			2			
			5			
9.0			4			
10.0		5	5	0.3	Wood, Cinders	
			3			
			3			
12.0			10			
15.0		6	3	0.3	Cinders, Wood, Silty Clay, Brick	
			4			
			3			
17.0			3			
20.0		7	5	2.0	Gray Brown Silty Clay	
			8			
			9			
22.0			13		Bottom of Hole 22.0'	




 MIDLANTIC ENGINEERING		
Subsurface Profile Plan Hanover Crossings – Reclamation Sites Hanover Township, PA		
Project: 06018.1	Date: 01/02/07	Scale: 1" = 200'

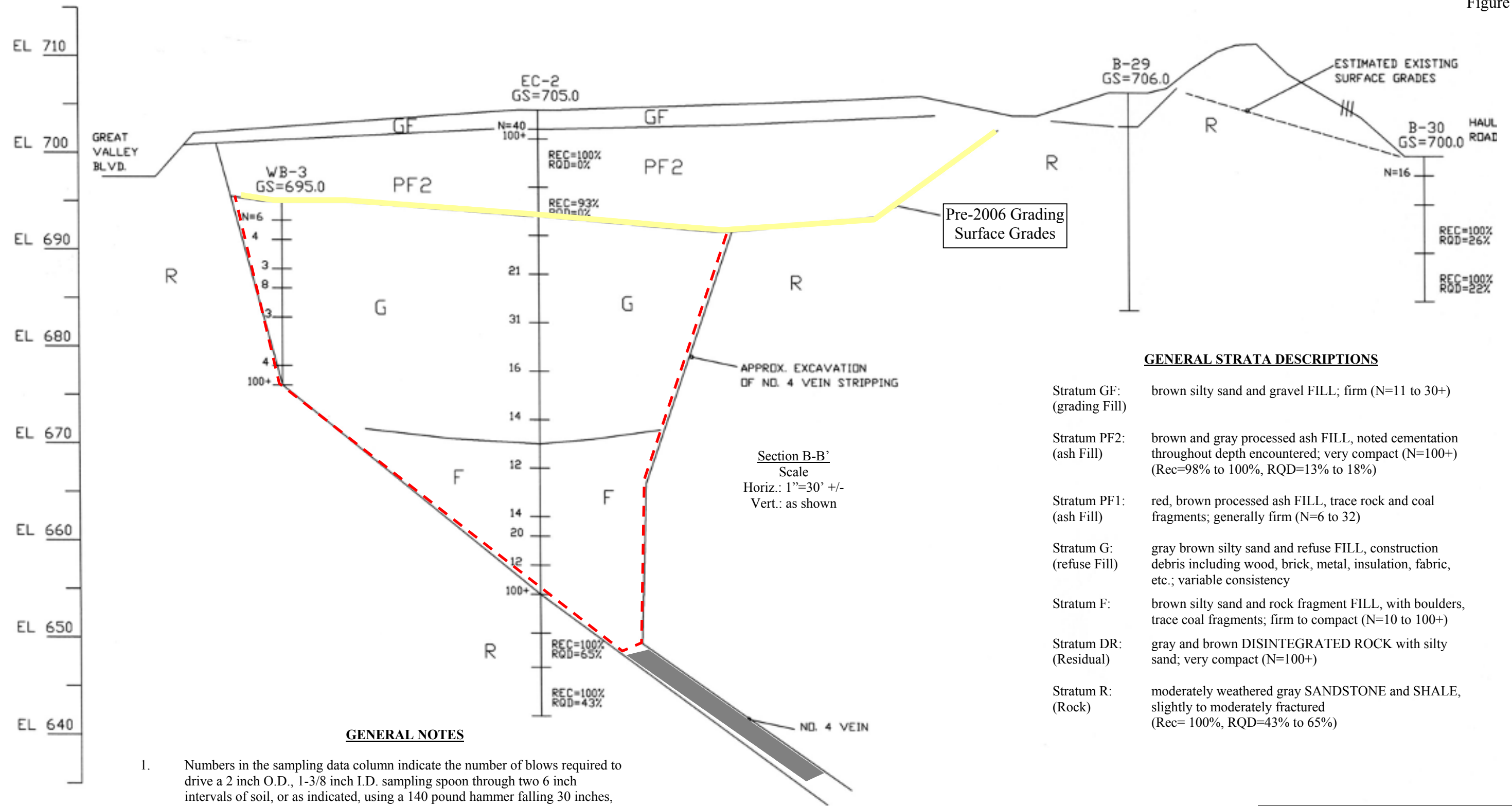


- | | |
|-------------------------------|--|
| Stratum GF:
(grading Fill) | brown silty sand and gravel FILL; firm (N=11 to 30+) |
| Stratum PF2:
(ash Fill) | brown and gray processed ash FILL, noted cementation throughout depth encountered; very compact (N=100+) (Rec=98% to 100%, RQD=13% to 18%) |
| Stratum PF1:
(ash Fill) | red, brown processed ash FILL, trace rock and coal fragments; generally firm (N=6 to 32) |
| Stratum G:
(refuse Fill) | gray brown silty sand and refuse FILL, construction debris including wood, brick, metal, insulation, fabric, etc.; variable consistency |
| Stratum F: | brown silty sand and rock fragment FILL, with boulders, trace coal fragments; firm to compact (N=10 to 100+) |
| Stratum DR:
(Residual) | gray and brown DISINTEGRATED ROCK with silty sand; very compact (N=100+) |
| Stratum R:
(Rock) | moderately weathered gray SANDSTONE and SHALE, slightly to moderately fractured (Rec= 100%, RQD=43% to 65%) |

GENERAL NOTES

1. Numbers in the sampling data column indicate the number of blows required to drive a 2 inch O.D., 1-3/8 inch I.D. sampling spoon through two 6 inch intervals of soil, or as indicated, using a 140 pound hammer falling 30 inches, according to ASTM D-1586.
2. G.S. = Ground Surface %M = Natural Moisture Content
REC = rock core recovery RQD = rock quality designation
3. This drawing illustrates interpretations of test boring data and should not be used as part of the contract documents.
4. These profiles were developed by interpolation between widely spaced test borings. Only at the test boring locations should they be considered as an approximately accurate representation and then only to the degree implied by the test boring logs.

 MIDLANTIC ENGINEERING		
<p align="center">Estimated Subsurface Profile</p> <p align="center">Hanover Crossings - Reclamation Project</p> <p align="center">Hanover Township, PA</p>		
Project: 06018.1	Date: 01/02/07	Scale: As shown



GENERAL STRATA DESCRIPTIONS

Stratum GF: (grading Fill)	brown silty sand and gravel FILL; firm (N=11 to 30+)
Stratum PF2: (ash Fill)	brown and gray processed ash FILL, noted cementation throughout depth encountered; very compact (N=100+) (Rec=98% to 100%, RQD=13% to 18%)
Stratum PF1: (ash Fill)	red, brown processed ash FILL, trace rock and coal fragments; generally firm (N=6 to 32)
Stratum G: (refuse Fill)	gray brown silty sand and refuse FILL, construction debris including wood, brick, metal, insulation, fabric, etc.; variable consistency
Stratum F:	brown silty sand and rock fragment FILL, with boulders, trace coal fragments; firm to compact (N=10 to 100+)
Stratum DR: (Residual)	gray and brown DISINTEGRATED ROCK with silty sand; very compact (N=100+)
Stratum R: (Rock)	moderately weathered gray SANDSTONE and SHALE, slightly to moderately fractured (Rec= 100%, RQD=43% to 65%)

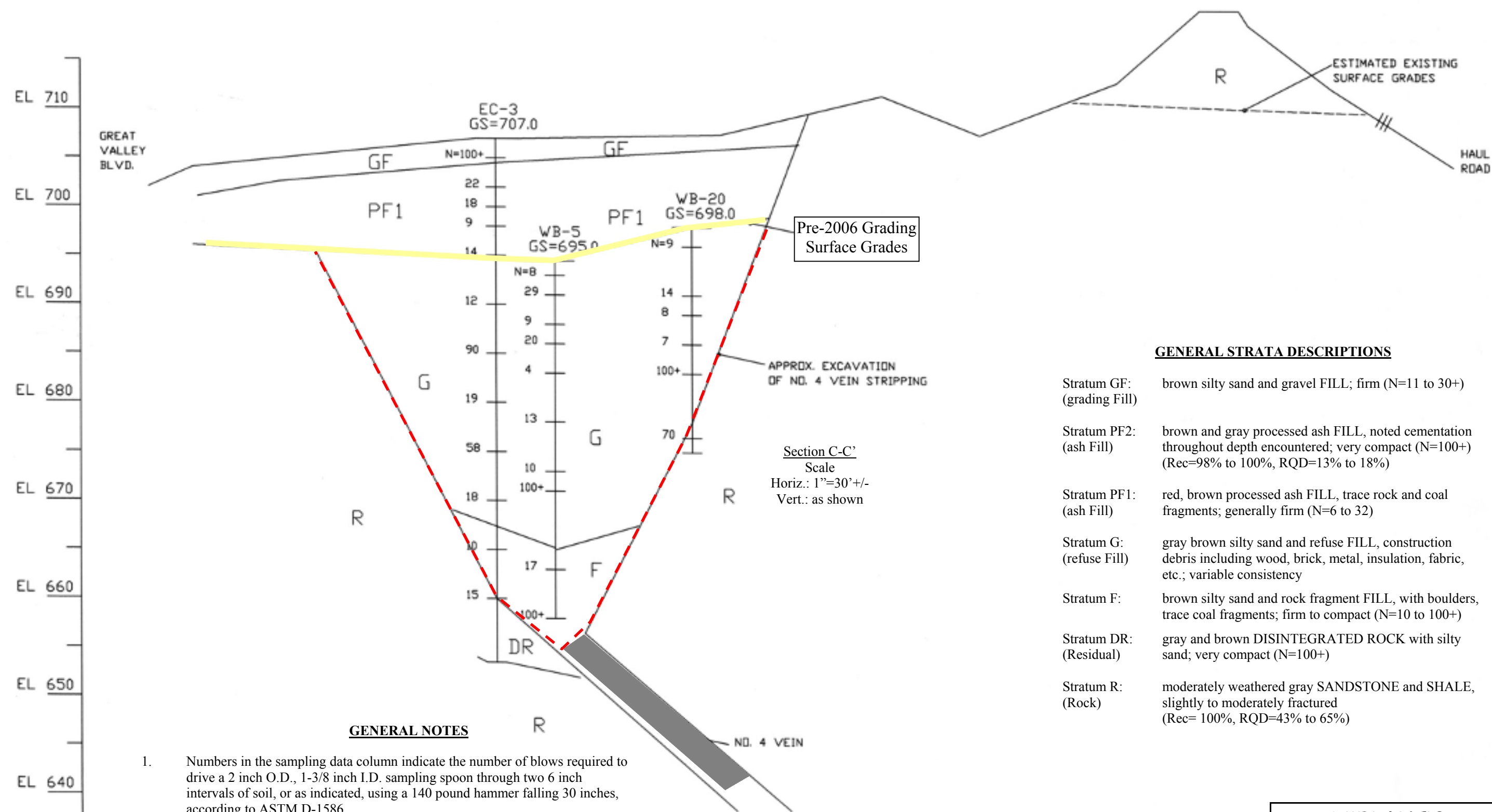
GENERAL NOTES

- Numbers in the sampling data column indicate the number of blows required to drive a 2 inch O.D., 1-3/8 inch I.D. sampling spoon through two 6 inch intervals of soil, or as indicated, using a 140 pound hammer falling 30 inches, according to ASTM D-1586.
- G.S. = Ground Surface %M = Natural Moisture Content
REC = rock core recovery RQD = rock quality designation
- This drawing illustrates interpretations of test boring data and should not be used as part of the contract documents.
- These profiles were developed by interpolation between widely spaced test borings. Only at the test boring locations should they be considered as an approximately accurate representation and then only to the degree implied by the test boring logs.




Estimated Subsurface Profile
Hanover Crossings - Reclamation Project
Hanover Township, PA

Project: 06018.1	Date: 01/02/07	Scale: As shown
---------------------	-------------------	--------------------



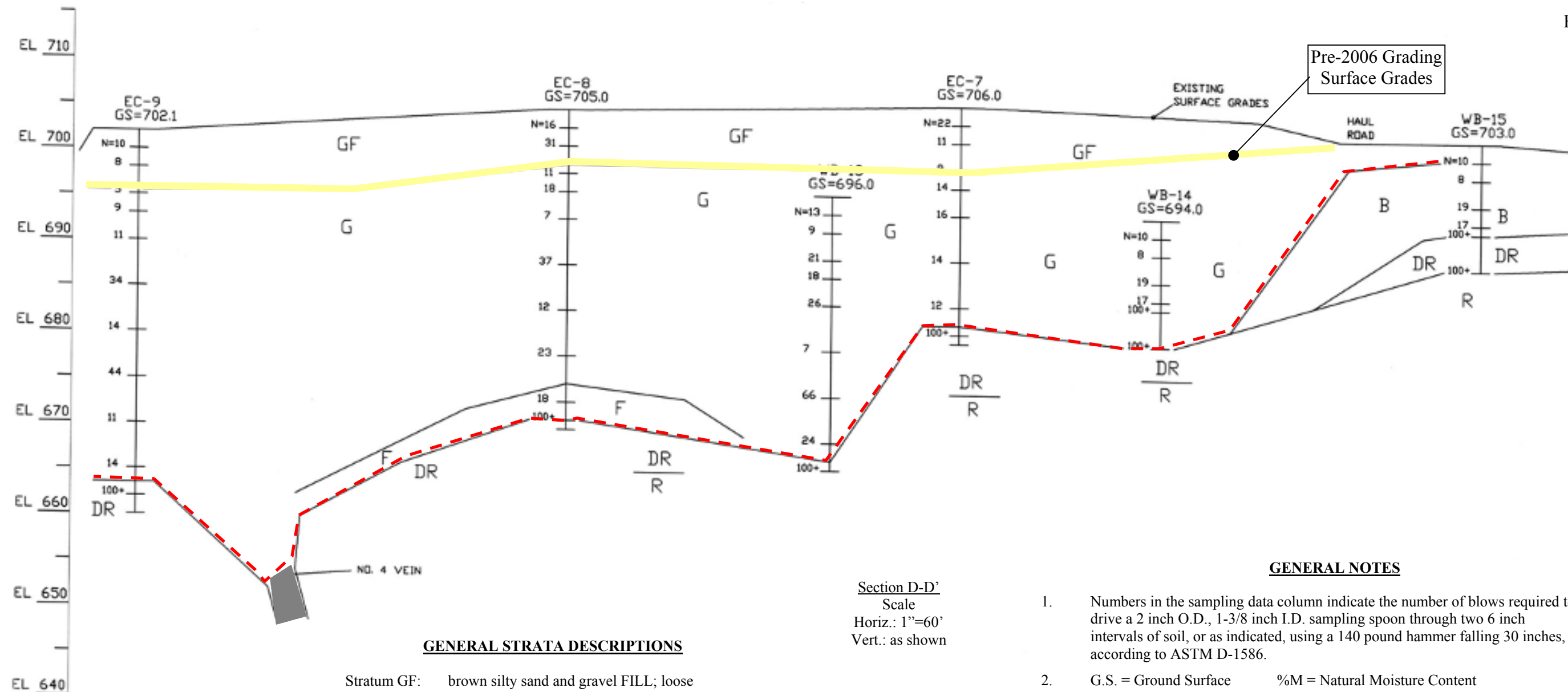
GENERAL NOTES

1. Numbers in the sampling data column indicate the number of blows required to drive a 2 inch O.D., 1-3/8 inch I.D. sampling spoon through two 6 inch intervals of soil, or as indicated, using a 140 pound hammer falling 30 inches, according to ASTM D-1586.
2. G.S. = Ground Surface %M = Natural Moisture Content
REC = rock core recovery RQD = rock quality designation
3. This drawing illustrates interpretations of test boring data and should not be used as part of the contract documents.
4. These profiles were developed by interpolation between widely spaced test borings. Only at the test boring locations should they be considered as an approximately accurate representation and then only to the degree implied by the test boring logs.

**MIDLANTIC
ENGINEERING**

Estimated Subsurface Profile
Hanover Crossings - Reclamation Project
Hanover Township, PA

Project: 06018.1	Date: 01/02/07	Scale: As shown
---------------------	-------------------	--------------------




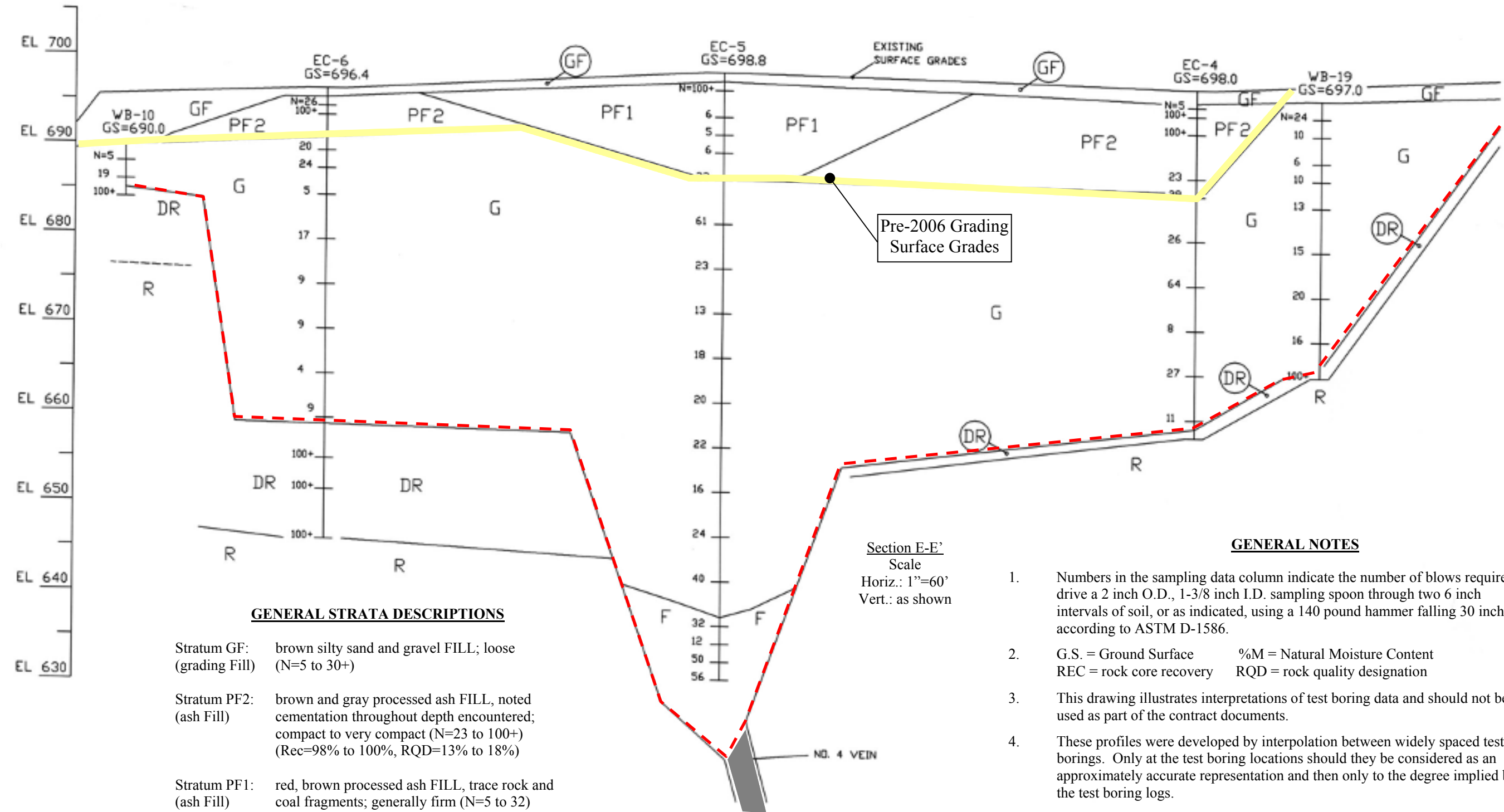
GENERAL STRATA DESCRIPTIONS

Stratum GF: (grading Fill)	brown silty sand and gravel FILL; loose (N=5 to 30+)
Stratum PF2: (ash Fill)	brown and gray processed ash FILL, noted cementation throughout depth encountered; compact to very compact (N=23 to 100+) (Rec=98% to 100%, RQD=13% to 18%)
Stratum PF1: (ash Fill)	red, brown processed ash FILL, trace rock and coal fragments; generally firm (N=5 to 32)
Stratum G: (refuse Fill)	gray brown silty sand and refuse FILL, construction debris including wood, brick, metal, insulation, fabric, etc.; variable consistency
Stratum F:	brown silty sand and rock fragment FILL, with boulders, trace coal fragments; firm to compact (N=10 to 100+)
Stratum DR: (Residual)	gray and brown DISINTEGRATED ROCK with silty sand; very compact (N=100+)
Stratum R: (Rock)	moderately weathered gray SANDSTONE and SHALE, slightly to moderately fractured (Rec=

GENERAL NOTES

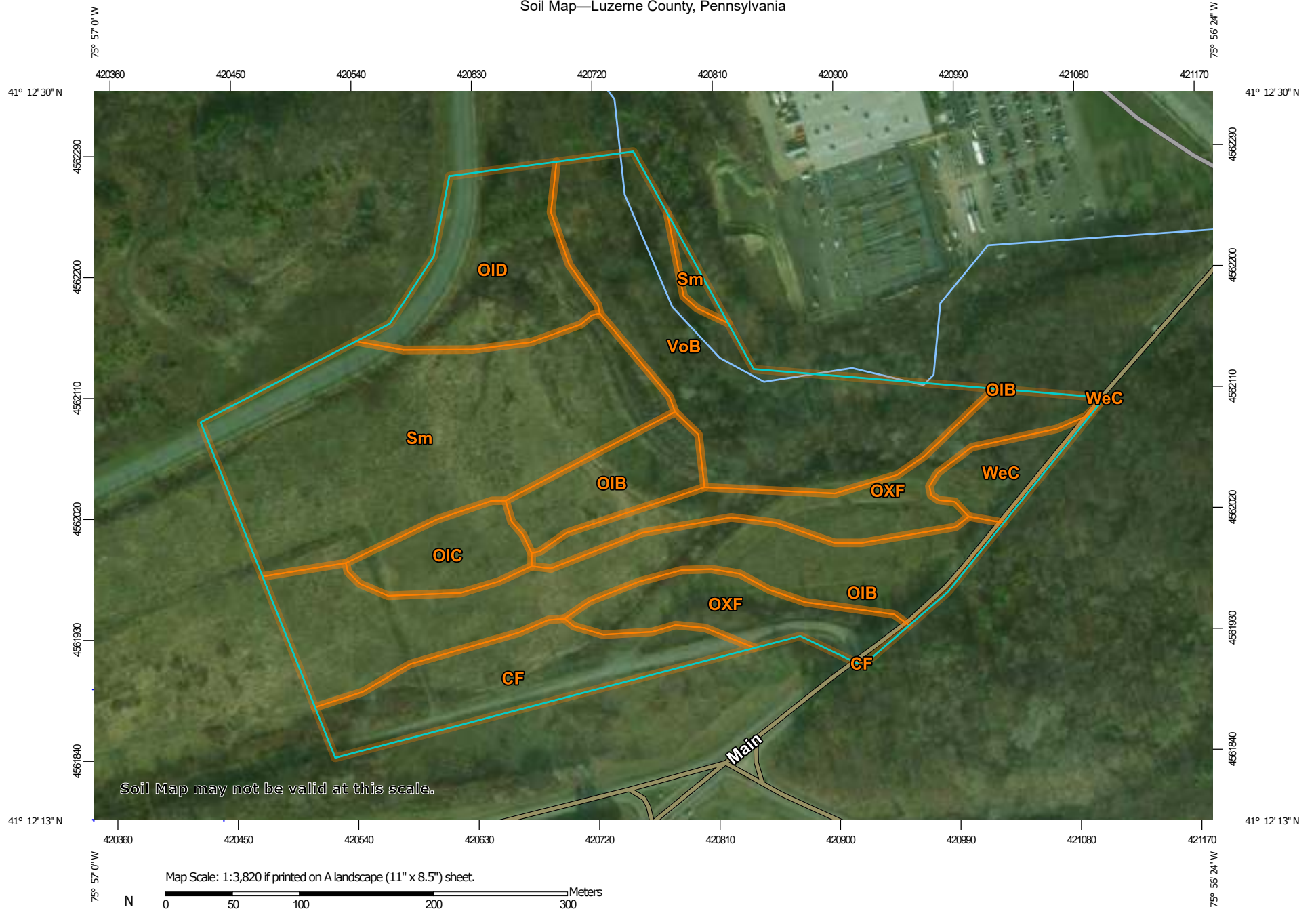
- Numbers in the sampling data column indicate the number of blows required to drive a 2 inch O.D., 1-3/8 inch I.D. sampling spoon through two 6 inch intervals of soil, or as indicated, using a 140 pound hammer falling 30 inches, according to ASTM D-1586.
- G.S. = Ground Surface %M = Natural Moisture Content
REC = rock core recovery RQD = rock quality designation
- This drawing illustrates interpretations of test boring data and should not be used as part of the contract documents.
- These profiles were developed by interpolation between widely spaced test borings. Only at the test boring locations should they be considered as an approximately accurate representation and then only to the degree implied by the test boring logs.

 MIDLANTIC ENGINEERING		
Estimated Subsurface Profile Hanover Crossings - Reclamation Project Hanover Township, PA		
Project: 06018.1	Date: 01/02/07	Scale: As shown



Appendix H Soil Mapping

Soil Map—Luzerne County, Pennsylvania




**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

11/17/2021
Page 1 of 3


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Luzerne County, Pennsylvania

Survey Area Data: Version 16, Aug 31, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 29, 2010—Nov 22, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CF	Cut and fill land	3.4	8.5%
OIB	Oquaga and Lordstown channery silt loams, 3 to 8 percent slopes	8.5	20.9%
OIC	Oquaga and Lordstown channery silt loams, 8 to 15 percent slopes	1.5	3.8%
OID	Oquaga and Lordstown channery silt loams, 15 to 25 percent slopes	3.6	8.8%
OXF	Oquaga and Lordstown extremely stony silt loams steep	5.2	13.0%
Sm	Strip mine	9.9	24.6%
VoB	Volusia channery silt loam, 0 to 8 percent slopes	7.1	17.7%
WeC	Weikert and Klinesville channery silt loams, 8 to 15 percent slopes	1.0	2.6%
Totals for Area of Interest		40.4	100.0%




Hydric Rating by Map Unit—Luzerne County, Pennsylvania









MAP LEGEND

Area of Interest (AOI)







 Area of Interest (AOI)

Soils







Soil Rating Polygons

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available


Soil Rating Lines

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available






Soil Rating Points

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

-  Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Luzerne County, Pennsylvania
Survey Area Data: Version 16, Aug 31, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 29, 2010—Nov 22, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CF	Cut and fill land	0	3.4	8.5%
OIB	Oquaga and Lordstown channery silt loams, 3 to 8 percent slopes	0	8.5	20.9%
OIC	Oquaga and Lordstown channery silt loams, 8 to 15 percent slopes	0	1.5	3.8%
OID	Oquaga and Lordstown channery silt loams, 15 to 25 percent slopes	0	3.6	8.8%
OXF	Oquaga and Lordstown extremely stony silt loams steep	0	5.2	13.0%
Sm	Strip mine	0	9.9	24.6%
VoB	Volusia channery silt loam, 0 to 8 percent slopes	5	7.1	17.7%
WeC	Weikert and Klinesville channery silt loams, 8 to 15 percent slopes	0	1.0	2.6%
Totals for Area of Interest			40.4	100.0%



Description

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.



Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Rating Options

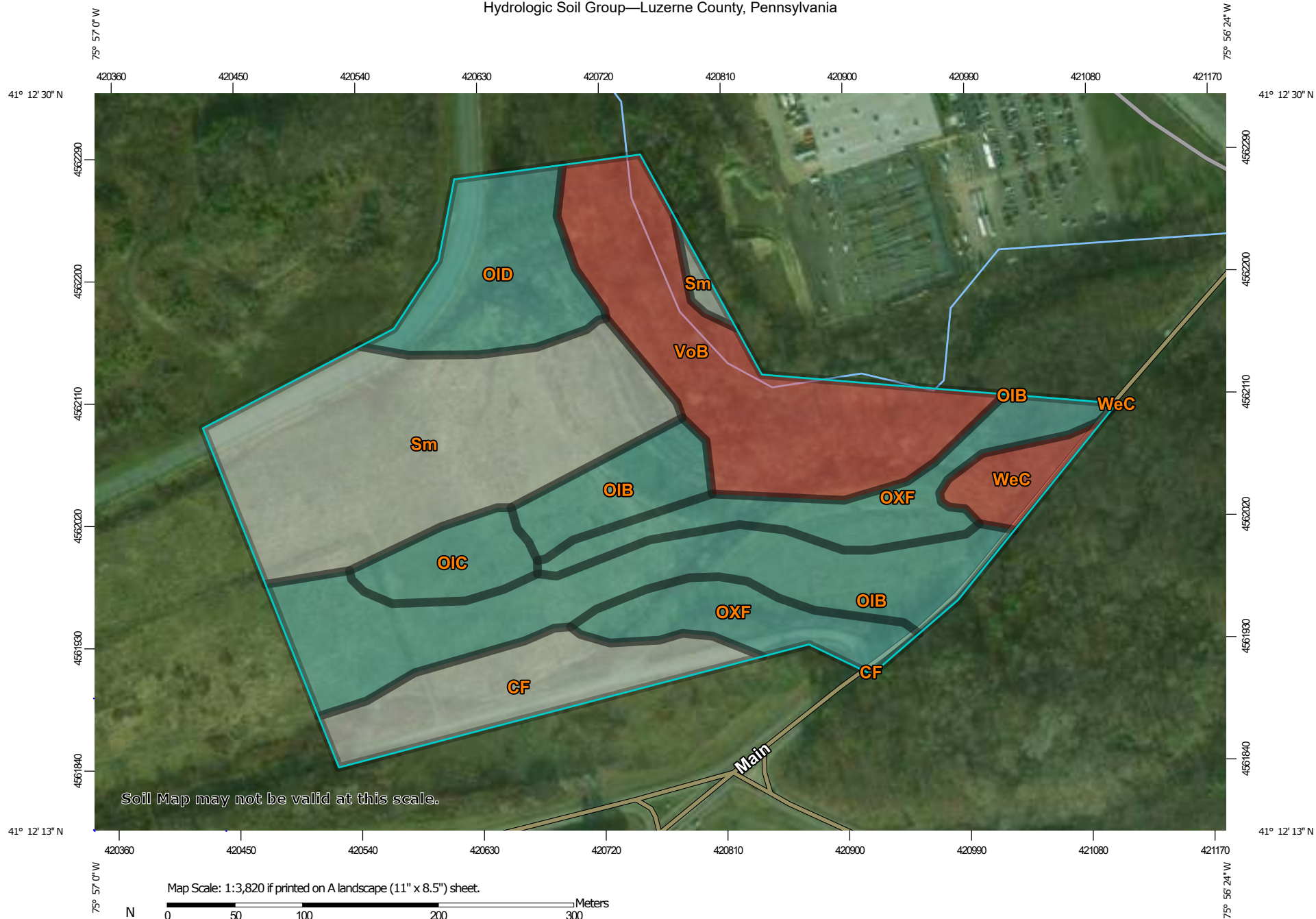
Aggregation Method: Percent Present

Component Percent Cutoff: None Specified

Tie-break Rule: Lower



Hydrologic Soil Group—Luzerne County, Pennsylvania




**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

11/17/2021
Page 1 of 4

MAP LEGEND

Area of Interest (AOI)








 Area of Interest (AOI)

Soils

Soil Rating Polygons





 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points






 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available


Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Luzerne County, Pennsylvania
 Survey Area Data: Version 16, Aug 31, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 29, 2010—Nov 22, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CF	Cut and fill land		3.4	8.5%
OIB	Oquaga and Lordstown channery silt loams, 3 to 8 percent slopes	C	8.5	20.9%
OIC	Oquaga and Lordstown channery silt loams, 8 to 15 percent slopes	C	1.5	3.8%
OID	Oquaga and Lordstown channery silt loams, 15 to 25 percent slopes	C	3.6	8.8%
OXF	Oquaga and Lordstown extremely stony silt loams steep	C	5.2	13.0%
Sm	Strip mine		9.9	24.6%
VoB	Volusia channery silt loam, 0 to 8 percent slopes	D	7.1	17.7%
WeC	Weikert and Klinesville channery silt loams, 8 to 15 percent slopes	D	1.0	2.6%
Totals for Area of Interest			40.4	100.0%



Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher



Appendix I PNDI / PHMC

1. PROJECT INFORMATION

Project Name: **Hanover 7A**

Date of Review: **11/18/2021 10:52:30 AM**

Project Category: **Development, Other**

Project Area: **39.84 acres**

County(s): **Luzerne**

Township/Municipality(s): **HANOVER TOWNSHIP**

ZIP Code:

Quadrangle Name(s): **WILKES-BARRE WEST**

Watersheds HUC 8: **Upper Susquehanna-Lackawanna**

Watersheds HUC 12: **Warrior Creek-Susquehanna River**

Decimal Degrees: **41.206012, -75.945242**

Degrees Minutes Seconds: **41° 12' 21.6437" N, 75° 56' 42.8725" W**

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

Hanover 7A

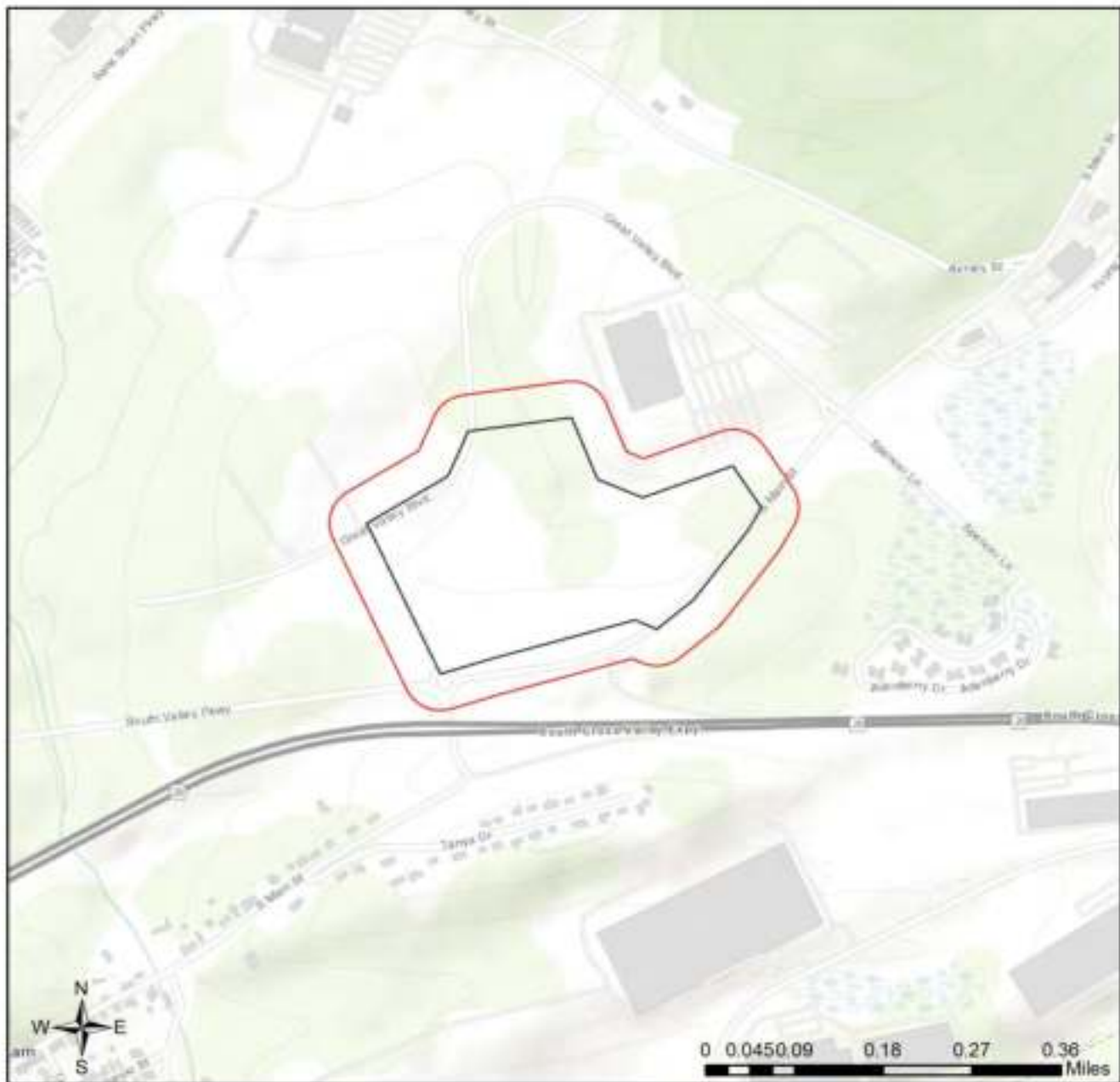


- ☐ Project Boundary
- ☐ Buffered Project Boundary



Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China

Hanover 7A



- ☐ Project Boundary
- ☒ Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



RESPONSE TO QUESTION(S) ASKED

Q1: The proposed project is in the range of the Indiana bat. Describe how the project will affect bat habitat (forests, woodlots and trees) and indicate what measures will be taken in consideration of this. Round acreages up to the nearest acre (e.g., 0.2 acres = 1 acre).

Your answer is: The project will affect 1 to 39 acres of forests, woodlots and trees.

Q2: Is tree removal, tree cutting or forest clearing of 40 acres or more necessary to implement all aspects of this project?

Your answer is: No

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.



5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

PA Fish and Boat Commission

Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Adam Whalen
Company/Business Name: Kurowski & Wilson, LLC
Address: 2201 North Front Street, Suite 200
City, State, Zip: Harrisburg, PA 17110
Phone: (717) 635-2835 Fax: (717) 635-2836
Email: awhalen@kandwengineers.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.



applicant/project proponent signature

11/18/2021

date

January 11, 2023

Joseph Gallagher
Ecological Solutions, Inc.
P.O. Box 193
2 Hillside Road
Conyngham PA 182190000

RE: ER Project # 2023PR00127.001, Hanover Lot 7A, Department of
Environmental Protection, Hanover Township, Luzerne County

Dear Joseph Gallagher:

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Above Ground Resources

No Above Ground Concerns - Environmental Review - No Historic

Properties - Above Ground

Based on the information received and available in our files, it is our opinion that there are no above ground historic properties (resources listed in or eligible for listing in the National Register) present in the project area of potential effect. Therefore, no above ground historic properties will be affected by the proposed project. Should the scope of the project change and/or new information be brought to your attention regarding historic properties located within the project area of potential effect, please reinitiate consultation with our office using PA-SHARE.

For questions concerning above ground resources, please contact Emma Diehl at emdiehl@pa.gov.

Archaeological Resources

No Archaeological Concerns - Environmental Review - No Historic Properties - Archaeological

Based on the information received and available within our files, it is our opinion that there are no archaeological historic properties (resources listed in or eligible for listing in the National Register) present within the area of potential effect. Should the scope of the project change and/or should you be made aware of historic property concerns, you will need to reinitiate consultation with our office using PA-SHARE.

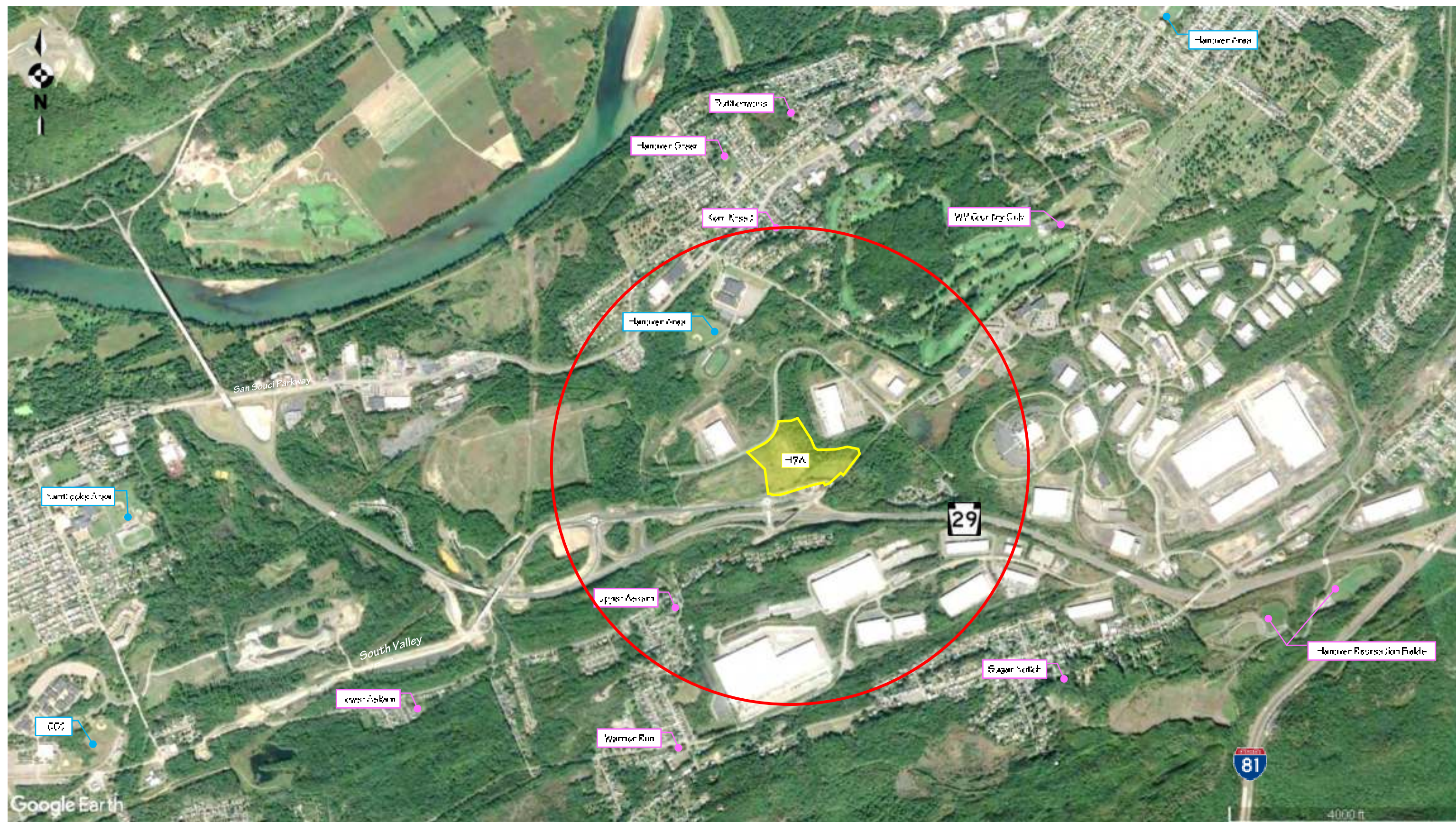
For questions concerning archaeological resources, please contact
Emma Diehl at emdiehl@pa.gov.

Sincerely,

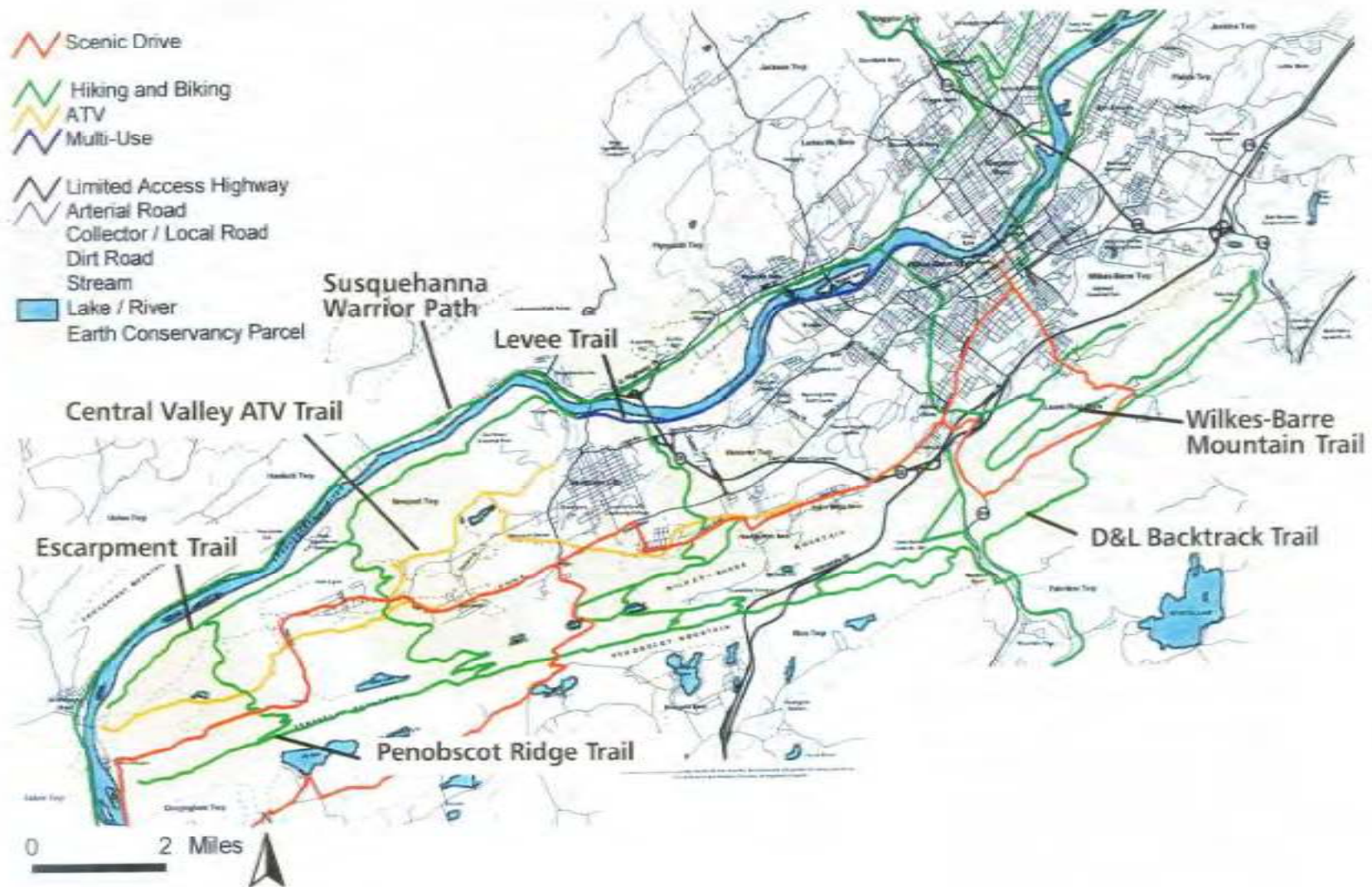
A handwritten signature in black ink, appearing to read "Emma Diehl", with a horizontal line extending to the right.

Emma Diehl
Environmental Review Division Manager

Appendix J Local Recreation Information







Trails Network

Appendix K Wetlands Report

Appendices

Appendix A –	Site Location Map
	NRCS Soil Mapping
	NWI Mapping
Appendix B -	Field Data Sheets
Appendix C -	Wetland Delineation Map
Appendix D –	Site Photos
Appendix E -	Qualifications

Appendix A – Site Location Map
NRCS Soil Mapping
NWI Mapping

Ecological Solutions, Inc. ~ Environmental Consultants

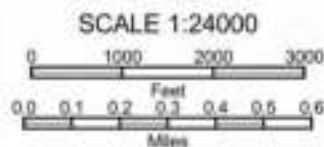
P.O. Box 193 Conyngham, PA 18219
Phone: (570) 788-1721 e-mail: ecos@ptd.net



Site Location Map
Hanover Lot 7A
Hanover Township Luzerne County, PA

Produced by Trimble Terrain Navigator Pro
Topography based on USGS 1:24,000 Maps

North American 1983 Datum (NAD83)



JAN 1, 1990
WILKESBARRE WEST
41075-B7-TM-024

Soil Map—Luzerne County, Pennsylvania
(Lot 7A Hanover Twp, Luzerne Cnty)

Soil Map may not be valid at this scale. Exit 2


Map Scale: 1:5,430 if printed on A landscape (11" x 8.5") sheet.

Meters

0 50 100 200 300

N

Map Scale: 1:5,430 if printed on a landscape (11" x 8.5") sheet.



The scale bar consists of two horizontal lines. The top line is labeled 'Meters' and has tick marks at 0, 50, 100, 200, and 300. The bottom line is labeled 'Feet' and has tick marks at 0, 250, 500, 1000, and 1500. A north arrow is located to the left of the scale bar, pointing upwards.

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84




Web Soil Survey
National Cooperative Soil Survey

10/11/2022
Page 1 of 3

Soil Map—Luzerne County, Pennsylvania
(Lot 7A Hanover Twp, Luzerne Cnty)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Luzerne County, Pennsylvania

Survey Area Data: Version 17, Sep 6, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 21, 2022—Jun 5, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CF	Cut and fill land	2.7	4.6%
DdD	Dekalb channery sandy loam, 8 to 25 percent slopes, rubbly	0.2	0.4%
OIB	Oquaga and Lordstown channery silt loams, 3 to 8 percent slopes	11.3	19.3%
OIC	Oquaga and Lordstown channery silt loams, 8 to 15 percent slopes	1.5	2.6%
OID	Oquaga and Lordstown channery silt loams, 15 to 25 percent slopes	2.8	4.8%
OpD	Oquaga and Lordstown extremely stony silt loams, 8 to 25 percent slopes	4.9	8.3%
OXF	Oquaga and Lordstown extremely stony silt loams steep	5.2	8.8%
Sm	Strip mine	20.0	34.1%
VoB	Volusia channery silt loam, 0 to 8 percent slopes	9.3	15.8%
WeC	Weikert and Klinesville channery silt loams, 8 to 15 percent slopes	0.7	1.2%
WrC	Wurtsboro channery loam, 8 to 15 percent slopes	0.0	0.0%
Totals for Area of Interest		58.7	100.0%



Luzerne County, Pennsylvania

CF—Cut and fill land

Map Unit Setting

National map unit symbol: 9yg0

Elevation: 490 to 2,260 feet

Mean annual precipitation: 36 to 46 inches

Mean annual air temperature: 46 to 56 degrees F

Frost-free period: 135 to 170 days

Farmland classification: Not prime farmland

Map Unit Composition

Udorthents, cut and fill, and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Udorthents, Cut And Fill

Setting

Down-slope shape: Linear

Across-slope shape: Linear

Properties and qualities

Slope: 0 to 70 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat excessively drained

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Data Source Information

Soil Survey Area: Luzerne County, Pennsylvania

Survey Area Data: Version 17, Sep 6, 2022



Luzerne County, Pennsylvania

DdD—Dekalb channery sandy loam, 8 to 25 percent slopes, rubbly

Map Unit Setting

National map unit symbol: 2w6ng

Elevation: 570 to 2,000 feet

Mean annual precipitation: 37 to 50 inches

Mean annual air temperature: 50 to 56 degrees F

Frost-free period: 155 to 185 days

Farmland classification: Not prime farmland

Map Unit Composition

Dekalb and similar soils: 75 percent

Minor components: 25 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dekalb

Setting

Landform: Mountain slopes

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Upper third of mountainflank

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Parent material: Residuum weathered from sandstone and shale

Typical profile

Oi - 0 to 1 inches: slightly decomposed plant material

A - 1 to 4 inches: channery sandy loam

E - 4 to 7 inches: channery sandy loam

Bw - 7 to 26 inches: very channery sandy loam

C - 26 to 34 inches: extremely channery sandy loam

R - 34 to 44 inches: bedrock

Properties and qualities

Slope: 8 to 25 percent

Surface area covered with cobbles, stones or boulders: 30.0 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to high (0.06 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 3.2 inches)



Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Ecological site: F147XY004PA - Sandstone Upland

Hydric soil rating: No

Minor Components

Clymer

Percent of map unit: 10 percent

Landform: Mountain slopes

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Upper third of mountainflank

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Hydric soil rating: No

Lehew

Percent of map unit: 10 percent

Landform: Mountain slopes

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Upper third of mountainflank

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Hydric soil rating: No

Hazleton

Percent of map unit: 5 percent

Landform: Mountain slopes

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Upper third of mountainflank

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Hydric soil rating: No

Data Source Information

Soil Survey Area: Luzerne County, Pennsylvania

Survey Area Data: Version 17, Sep 6, 2022



Luzerne County, Pennsylvania

OIB—Oquaga and Lordstown channery silt loams, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9yhh
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Oquaga and similar soils: 65 percent
Lordstown and similar soils: 35 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Oquaga

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Reddish ablation till derived from sandstone and siltstone

Typical profile

Ap - 0 to 7 inches: channery silt loam
Bw - 7 to 30 inches: very channery loam
R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands



Hydric soil rating: No

Description of Lordstown

Setting

Landform: Hills

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope, crest

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Parent material: Till derived from sedimentary rock

Typical profile

A - 0 to 7 inches: channery silt loam

Bw - 7 to 26 inches: channery silt loam

C - 26 to 30 inches: very channery loam

2R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: C

Ecological site: F140XY027NY - Well Drained Till Uplands

Hydric soil rating: No

Data Source Information

Soil Survey Area: Luzerne County, Pennsylvania

Survey Area Data: Version 17, Sep 6, 2022



Luzerne County, Pennsylvania

OIC—Oquaga and Lordstown channery silt loams, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 9yhj
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Oquaga and similar soils: 65 percent
Lordstown and similar soils: 35 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Oquaga

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Reddish ablation till derived from sandstone and siltstone

Typical profile

Ap - 0 to 7 inches: channery silt loam
Bw - 7 to 30 inches: very channery loam
R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands



Hydric soil rating: No

Description of Lordstown

Setting

Landform: Hills

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope, crest

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Typical profile

A - 0 to 7 inches: channery silt loam

Bw - 7 to 26 inches: channery silt loam

C - 26 to 30 inches: very channery loam

2R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 8 to 15 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: F140XY027NY - Well Drained Till Uplands

Hydric soil rating: No

Data Source Information

Soil Survey Area: Luzerne County, Pennsylvania

Survey Area Data: Version 17, Sep 6, 2022



Luzerne County, Pennsylvania

OID—Oquaga and Lordstown channery silt loams, 15 to 25 percent slopes

Map Unit Setting

National map unit symbol: 9yhk
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Oquaga and similar soils: 65 percent
Lordstown and similar soils: 35 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Oquaga

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Reddish ablation till derived from sandstone and siltstone

Typical profile

Ap - 0 to 7 inches: channery silt loam
Bw - 7 to 30 inches: very channery loam
R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 15 to 25 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands



Hydric soil rating: No

Description of Lordstown

Setting

Landform: Hills

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope, crest

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Typical profile

A - 0 to 7 inches: channery silt loam

Bw - 7 to 26 inches: channery silt loam

C - 26 to 30 inches: very channery loam

2R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 15 to 25 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: F140XY027NY - Well Drained Till Uplands

Hydric soil rating: No

Data Source Information

Soil Survey Area: Luzerne County, Pennsylvania

Survey Area Data: Version 17, Sep 6, 2022



Luzerne County, Pennsylvania

OpD—Oquaga and Lordstown extremely stony silt loams, 8 to 25 percent slopes

Map Unit Setting

National map unit symbol: 9yhm
Elevation: 700 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Oquaga and similar soils: 60 percent
Lordstown and similar soils: 40 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Oquaga

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Reddish ablation till derived from sandstone and siltstone

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 30 inches: very channery silt loam
R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 8 to 25 percent
Surface area covered with cobbles, stones or boulders: 15.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s



Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands
Hydric soil rating: No

Description of Lordstown

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 26 inches: channery silt loam
C - 26 to 30 inches: very channery loam
2R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 8 to 25 percent
Surface area covered with cobbles, stones or boulders: 9.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands
Hydric soil rating: No

Data Source Information

Soil Survey Area: Luzerne County, Pennsylvania
Survey Area Data: Version 17, Sep 6, 2022



Luzerne County, Pennsylvania

OpD—Oquaga and Lordstown extremely stony silt loams, 8 to 25 percent slopes

Map Unit Setting

National map unit symbol: 9yh
Elevation: 700 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Oquaga and similar soils: 60 percent
Lordstown and similar soils: 40 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Oquaga

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Reddish ablation till derived from sandstone and siltstone

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 30 inches: very channery silt loam
R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 8 to 25 percent
Surface area covered with cobbles, stones or boulders: 15.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s



Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands
Hydric soil rating: No

Description of Lordstown

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 26 inches: channery silt loam
C - 26 to 30 inches: very channery loam
2R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 8 to 25 percent
Surface area covered with cobbles, stones or boulders: 9.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands
Hydric soil rating: No

Data Source Information

Soil Survey Area: Luzerne County, Pennsylvania
Survey Area Data: Version 17, Sep 6, 2022



Luzerne County, Pennsylvania

OXF—Oquaga and Lordstown extremely stony silt loams steep

Map Unit Setting

National map unit symbol: 9yhg
Elevation: 700 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Oquaga and similar soils: 60 percent
Lordstown and similar soils: 40 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Oquaga

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Reddish ablation till derived from sandstone and siltstone

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 30 inches: very channery silt loam
R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 25 to 50 percent
Surface area covered with cobbles, stones or boulders: 15.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s



Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands
Hydric soil rating: No

Description of Lordstown

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 26 inches: channery silt loam
C - 26 to 30 inches: very channery loam
2R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 25 to 50 percent
Surface area covered with cobbles, stones or boulders: 9.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water
(Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands
Hydric soil rating: No

Data Source Information

Soil Survey Area: Luzerne County, Pennsylvania
Survey Area Data: Version 17, Sep 6, 2022



Luzerne County, Pennsylvania

Sm—Strip mine

Map Unit Setting

National map unit symbol: 9yhz

Mean annual precipitation: 34 to 51 inches

Mean annual air temperature: 40 to 50 degrees F

Frost-free period: 100 to 160 days

Farmland classification: Not prime farmland

Map Unit Composition

Pits, strip mine: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pits, Strip Mine

Setting

Parent material: Coal extraction mine spoil

Typical profile

H1 - 0 to 6 inches: very channery sandy loam

H2 - 6 to 60 inches: very channery silt loam

Properties and qualities

Slope: 0 to 50 percent

Depth to restrictive feature: 20 to 60 inches to lithic bedrock

Runoff class: Medium

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to high (0.06 to 6.00 in/hr)

Available water supply, 0 to 60 inches: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydric soil rating: No

Data Source Information

Soil Survey Area: Luzerne County, Pennsylvania

Survey Area Data: Version 17, Sep 6, 2022



Luzerne County, Pennsylvania

VoB—Volusia channery silt loam, 0 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2srff

Elevation: 330 to 2,460 feet

Mean annual precipitation: 31 to 70 inches

Mean annual air temperature: 39 to 52 degrees F

Frost-free period: 105 to 180 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Volusia and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Volusia

Setting

Landform: Hills, mountains

Landform position (two-dimensional): Summit, footslope

Landform position (three-dimensional): Interfluvium, base slope, side slope

Down-slope shape: Concave

Across-slope shape: Linear

Parent material: Loamy till derived from interbedded sedimentary rock

Typical profile

Ap - 0 to 9 inches: channery silt loam

Bw - 9 to 15 inches: channery silt loam

Eg - 15 to 17 inches: channery silt loam

Bx1 - 17 to 29 inches: channery loam

Bx2 - 29 to 54 inches: channery loam

C - 54 to 72 inches: channery silt loam

Properties and qualities

Slope: 0 to 8 percent

Surface area covered with cobbles, stones or boulders: 0.0 percent

Depth to restrictive feature: 10 to 22 inches to fragipan

Drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)

Depth to water table: About 6 to 18 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Available water supply, 0 to 60 inches: Very low (about 3.0 inches)



Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: D

Ecological site: F140XY024NY - Moist Dense Till

Hydric soil rating: No

Minor Components

Chippewa

Percent of map unit: 5 percent

Landform: Depressions

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Base slope

Down-slope shape: Concave

Across-slope shape: Concave

Hydric soil rating: Yes

Mardin

Percent of map unit: 5 percent

Landform: Mountains, hills

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Interfluvial, side slope

Down-slope shape: Convex

Across-slope shape: Convex

Hydric soil rating: No

Data Source Information

Soil Survey Area: Luzerne County, Pennsylvania

Survey Area Data: Version 17, Sep 6, 2022



Luzerne County, Pennsylvania

WeC—Weikert and Klinesville channery silt loams, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 9yj9
Elevation: 300 to 1,600 feet
Mean annual precipitation: 36 to 50 inches
Mean annual air temperature: 46 to 57 degrees F
Frost-free period: 120 to 200 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Weikert and similar soils: 60 percent
Klinesville and similar soils: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Weikert

Setting

Landform: Hills
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from shale and siltstone

Typical profile

H1 - 0 to 8 inches: channery silt loam
H2 - 8 to 17 inches: very channery silt loam
H3 - 17 to 21 inches: unweathered bedrock

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 1.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Hydric soil rating: No



Description of Klinesville

Setting

Landform: Valleys, ridges
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from siltstone

Typical profile

H1 - 0 to 2 inches: channery silt loam
H2 - 2 to 13 inches: channery silt loam
H3 - 13 to 15 inches: channery silt loam
R - 15 to 19 inches: unweathered bedrock

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 1.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Hydric soil rating: No

Data Source Information

Soil Survey Area: Luzerne County, Pennsylvania
Survey Area Data: Version 17, Sep 6, 2022



Luzerne County, Pennsylvania

WrC—Wurtsboro channery loam, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 9yjk

Elevation: 800 to 1,800 feet

Mean annual precipitation: 30 to 46 inches

Mean annual air temperature: 45 to 50 degrees F

Frost-free period: 110 to 150 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Wurtsboro and similar soils: 87 percent

Minor components: 13 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wurtsboro

Setting

Landform: Hills

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Base slope

Down-slope shape: Linear

Across-slope shape: Linear

Typical profile

H1 - 0 to 8 inches: channery loam

H2 - 8 to 21 inches: gravelly loam

H3 - 21 to 60 inches: gravelly sandy loam

Properties and qualities

Slope: 8 to 15 percent

Depth to restrictive feature: 17 to 28 inches to fragipan

Drainage class: Moderately well drained

Runoff class: High

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 18 to 24 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: F140XY024NY - Moist Dense Till

Hydric soil rating: No



Minor Components

Swartswood

Percent of map unit: 10 percent

Hydric soil rating: No

Chippewa

Percent of map unit: 3 percent

Landform: Depressions

Down-slope shape: Concave

Across-slope shape: Concave

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Luzerne County, Pennsylvania









Survey Area Data: Version 17, Sep 6, 2022





October 12, 2022

Wetlands

	Estuarine and Marine Deepwater		Freshwater Emergent Wetland		Lake
	Estuarine and Marine Wetland		Freshwater Forested/Shrub Wetland		Other
			Freshwater Pond		Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Appendix B - Field Data Sheets

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 7A Hanover City/County: Luzerne County Sampling Date: 10/14/2022
 Applicant/Owner: CanDo State: PA Sampling Point: A1
 Investigator(s): J. E. Gallagher Section, Township, Range: Hanover Township
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 0-8
 Subregion (LRR or MLRA): LRR R, MLRA 140 Lat: 41.20682217 Long: -75.94310283 Datum: WGS84
 Soil Map Unit Name: Volusia channery silt loam (VoB) NWI classification: PFO1
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.)			

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u>X</u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION – Use scientific names of plants.

 Sampling Point: A1

Tree Stratum (Plot size: <u>2,827 sq ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	15	Yes	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B)																
2. <u>Tsuga canadensis</u>	15	Yes	FACU																	
3. <u>Ulmus americana</u>	10	Yes	FACW																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	40	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>95</u></td> <td>x 3 = <u>285</u></td> </tr> <tr> <td>FACU species <u>15</u></td> <td>x 4 = <u>60</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>120</u></td> <td>(A) <u>365</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.04</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>95</u>	x 3 = <u>285</u>	FACU species <u>15</u>	x 4 = <u>60</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>120</u>	(A) <u>365</u> (B)	Prevalence Index = B/A = <u>3.04</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>10</u>	x 2 = <u>20</u>																			
FAC species <u>95</u>	x 3 = <u>285</u>																			
FACU species <u>15</u>	x 4 = <u>60</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>120</u>	(A) <u>365</u> (B)																			
Prevalence Index = B/A = <u>3.04</u>																				
Sapling/Shrub Stratum (Plot size: <u>707 sq ft</u>)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
		=Total Cover																		
Herb Stratum (Plot size: <u>78 sq ft</u>)																				
1. <u>Microstegium vimineum</u>	40	Yes	FAC	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Polygonum perfoliatum</u>	30	Yes	FAC																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	70	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. <u>Toxicodendron radicans</u>	10	Yes	FAC	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
	10	=Total Cover		Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point	A1
----------------	----

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 7A Hanover City/County: Luzerne County Sampling Date: 10/14/2022
 Applicant/Owner: CanDo State: PA Sampling Point: A4
 Investigator(s): J. E. Gallagher Section, Township, Range: Hanover Township
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 0-8
 Subregion (LRR or MLRA): LRR R, MLRA 140 Lat: 41.20672567 Long: -75.9435 Datum: WGS84
 Soil Map Unit Name: Volusia channery silt loam (VoB) NWI classification: PFO1
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.)			

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u>X</u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION – Use scientific names of plants.

 Sampling Point: A4

Tree Stratum (Plot size: <u>2,827 sq ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <u><i>Tsuga canadensis</i></u>	30	Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply by:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">15</td> <td>x 1 =</td> <td style="text-align: center;">15</td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">12</td> <td>x 2 =</td> <td style="text-align: center;">24</td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">70</td> <td>x 3 =</td> <td style="text-align: center;">210</td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">30</td> <td>x 4 =</td> <td style="text-align: center;">120</td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">127</td> <td>(A)</td> <td style="text-align: center;">369</td> <td>(B)</td> </tr> <tr> <td colspan="5">Prevalence Index = B/A = <u>2.91</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply by:			OBL species	15	x 1 =	15		FACW species	12	x 2 =	24		FAC species	70	x 3 =	210		FACU species	30	x 4 =	120		UPL species	0	x 5 =	0		Column Totals:	127	(A)	369	(B)	Prevalence Index = B/A = <u>2.91</u>				
Total % Cover of:		Multiply by:																																										
OBL species	15	x 1 =	15																																									
FACW species	12	x 2 =	24																																									
FAC species	70	x 3 =	210																																									
FACU species	30	x 4 =	120																																									
UPL species	0	x 5 =	0																																									
Column Totals:	127	(A)	369	(B)																																								
Prevalence Index = B/A = <u>2.91</u>																																												
2. <u><i>Acer rubrum</i></u>	10	Yes	FAC																																									
3. <u><i>Ulmus americana</i></u>	10	Yes	FACW																																									
4. _____																																												
5. _____																																												
6. _____																																												
7. _____																																												
	50	=Total Cover																																										
Sapling/Shrub Stratum (Plot size: <u>707 sq ft</u>)																																												
1. <u><i>Fraxinus pennsylvanica</i></u>	2	No	FACW	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																								
2. _____																																												
3. _____																																												
4. _____																																												
5. _____																																												
6. _____																																												
7. _____																																												
	2	=Total Cover																																										
Herb Stratum (Plot size: <u>78 sq ft</u>)																																												
1. <u><i>Microstegium vimineum</i></u>	40	Yes	FAC	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																																								
2. <u><i>Persicaria perfoliata</i></u>	20	Yes	FAC																																									
3. <u><i>Asclepias incarnata</i></u>	15	Yes	OBL																																									
4. _____																																												
5. _____																																												
6. _____																																												
7. _____																																												
8. _____																																												
9. _____																																												
10. _____																																												
11. _____																																												
12. _____																																												
	75	=Total Cover																																										
Woody Vine Stratum (Plot size: <u> </u>)																																												
1. _____																																												
2. _____																																												
3. _____																																												
4. _____																																												
		=Total Cover																																										

 Remarks: (Include photo numbers here or on a separate sheet.)
 Photo 7

SOIL

Sampling Point A4

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 7A Hanover City/County: Luzerne County Sampling Date: 10/14/2022
 Applicant/Owner: CanDo State: PA Sampling Point: B4
 Investigator(s): J. E. Gallagher Section, Township, Range: Hanover Township
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 0-8
 Subregion (LRR or MLRA): LRR K, MLRA 88 Lat: 41.2064185 Long: -75.943779 Datum: WGS84
 Soil Map Unit Name: Volusia channery silt loam (VoB) NWI classification: PFO1
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.)			

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>1</u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION – Use scientific names of plants.

 Sampling Point: B4

Tree Stratum (Plot size: <u>2,827 sq ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u><i>Ulmus americana</i></u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> <tr> <td>OBL species <u>15</u></td> <td>x 1 = <u>15</u></td> </tr> <tr> <td>FACW species <u>50</u></td> <td>x 2 = <u>100</u></td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>95</u> (A)</td> <td><u>205</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.16</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>15</u>	x 1 = <u>15</u>	FACW species <u>50</u>	x 2 = <u>100</u>	FAC species <u>30</u>	x 3 = <u>90</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>95</u> (A)	<u>205</u> (B)	Prevalence Index = B/A = <u>2.16</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>15</u>	x 1 = <u>15</u>																			
FACW species <u>50</u>	x 2 = <u>100</u>																			
FAC species <u>30</u>	x 3 = <u>90</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>95</u> (A)	<u>205</u> (B)																			
Prevalence Index = B/A = <u>2.16</u>																				
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>20</u>	<u>=Total Cover</u>																		
Sapling/Shrub Stratum (Plot size: <u>707 sq ft</u>)																				
1. <u><i>Acer rubrum</i></u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u><i>Cornus stolonifera</i></u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>30</u>	<u>=Total Cover</u>																		
Herb Stratum (Plot size: <u>78 sq ft</u>)																				
1. <u><i>Microstegium vimineum</i></u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. <u><i>Persicaria perfoliata</i></u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
3. <u><i>Asclepias incarnata</i></u>	<u>5</u>	<u>No</u>	<u>OBL</u>																	
4. <u><i>Onoclea sensibilis</i></u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
5. <u><i>Lycopus americanus</i></u>	<u>10</u>	<u>Yes</u>	<u>OBL</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	<u>45</u>	<u>=Total Cover</u>																		
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	_____	<u>=Total Cover</u>																		

 Remarks: (Include photo numbers here or on a separate sheet.)
 Photo 9

SOIL

Sampling Point B4

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 7A Hanover City/County: Luzerne County Sampling Date: 10/14/2022
 Applicant/Owner: CanDo State: PA Sampling Point: C1
 Investigator(s): J. E. Gallagher Section, Township, Range: Hanover Township
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 0-8
 Subregion (LRR or MLRA): LRR R, MLRA 140 Lat: 41.20653333 Long: -75.944355 Datum: WGS84
 Soil Map Unit Name: Volusia channery silt loam (VoB) NWI classification: PFO1
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.)			

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>1</u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

Sampling Point: C1

Tree Stratum		Plot size: 2,827 sq ft		Absolute % Cover	Dominant Species?	Indicator Status
1.						
2.						
3.						
4.						
5.						
6.						
7.						
				=Total Cover		
Sapling/Shrub Stratum		Plot size: 707 sq ft				
1.						
2.						
3.						
4.						
5.						
6.						
7.						
				=Total Cover		
Herb Stratum		Plot size: 78 sq ft				
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
				=Total Cover		
Woody Vine Stratum		Plot size:				
1.						
2.						
3.						
4.						
				=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

Total Number of Dominant Species Across All Strata: _____ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)
Prevalence Index = B/A = _____	

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is >50%

____ 3 - Prevalence Index is ≤3.0¹

____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)
Photo 11

SOIL

Sampling Point C1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Lot 7A Hanover City/County: Luzerne County Sampling Date: 10/14/2022
 Applicant/Owner: CanDo State: PA Sampling Point: U3
 Investigator(s): J. E. Gallagher Section, Township, Range: Hanover Township
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Linear Slope %: 0-1
 Subregion (LRR or MLRA): LRR R, MLRA 140 Lat: 41.2047375 Long: -75.94674983 Datum: WGS84
 Soil Map Unit Name: Cut and Fill Land (CF) NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil X, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

Sampling Point: U3

Tree Stratum (Plot size: 2,827 sq ft)		Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				
5.				
6.				
7.				
		=Total Cover		
Sapling/Shrub Stratum (Plot size: 707 sq ft)				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
		=Total Cover		
Herb Stratum (Plot size: 78 sq ft)				
1.	<i>Cirsium arvense</i>	10	No	FACU
2.	<i>Solidago altissima</i>	50	Yes	FACU
3.	<i>Poa pratensis</i>	20	Yes	FACU
4.	<i>Lotus corniculatus</i>	15	No	FACU
5.	<i>Dispacus sylvestris</i>	1	No	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		96	=Total Cover	
Woody Vine Stratum (Plot size:)				
1.				
2.				
3.				
4.				
		=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 0	x 3 = 0
FACU species 95	x 4 = 380
UPL species 0	x 5 = 0
Column Totals: 95 (A)	380 (B)
Prevalence Index = B/A = 4.00	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

SOIL

Sampling Point	U3
----------------	----

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Lot 7A Hanover City/County: Luzerne County Sampling Date: 10/14/2022
 Applicant/Owner: CanDo State: PA Sampling Point: U4
 Investigator(s): J. E. Gallagher Section, Township, Range: Hanover Township
 Landform (hillside, terrace, etc.): Hillslopes Local relief (concave, convex, none): Linear Slope %: 2-10
 Subregion (LRR or MLRA): LRR R, MLRA 140 Lat: 41.2057725 Long: -75.94369183 Datum: WGS84
 Soil Map Unit Name: Oquaga and Lordstown extremely stony silt loams steep (OXF) NWI classification: UPL
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil X, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u> </u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION – Use scientific names of plants.

 Sampling Point: U4

Tree Stratum (Plot size: <u>2,827 sq ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>90</u></td> <td>x 4 = <u>360</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>380</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.80</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>90</u>	x 4 = <u>360</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>380</u> (B)	Prevalence Index = B/A = <u>3.80</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>10</u>	x 2 = <u>20</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>90</u>	x 4 = <u>360</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>380</u> (B)																			
Prevalence Index = B/A = <u>3.80</u>																				
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>707 sq ft</u>)																				
1. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		=Total Cover																		
Herb Stratum (Plot size: <u>78 sq ft</u>)																				
1. <u>Dicliptera brachiata</u>	<u>10</u>	<u>No</u>	<u>FACW</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																
2. <u>Vicia sativa</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u>Poa pratensis</u>	<u>70</u>	<u>Yes</u>	<u>FACU</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
		100 =Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		=Total Cover																		

 Remarks: (Include photo numbers here or on a separate sheet.)
 Photo 4

SOIL

Sampling Point U4

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Lot 7A Hanover City/County: Luzerne County Sampling Date: 10/14/2022
 Applicant/Owner: CanDo State: PA Sampling Point: U5
 Investigator(s): J. E. Gallagher Section, Township, Range: Hanover Township
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 0-1
 Subregion (LRR or MLRA): LRR R, MLRA 140 Lat: 41.20628983 Long: -75.94185217 Datum: WGS84
 Soil Map Unit Name: Oquaga and Lordstown extremely stony silt loams steep (OXF) NWI classification: UPL
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes No X
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) 		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u>X</u> Surface Water (A1) <u>X</u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u>X</u> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>2</u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 		
Remarks: 		

Sampling Point: U5

Tree Stratum (Plot size: 2,827 sq ft)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Acer rubrum</i>	10	Yes	FAC
2.	<i>Betula nigra</i>	10	Yes	FACW
3.	<i>Robinia pseudoacacia</i>	15	Yes	FACU
4.				
5.				
6.				
7.				
		35	=Total Cover	
Sapling/Shrub Stratum (Plot size: 707 sq ft)				
1.	<i>Rosa multiflora</i>	10	Yes	FACU
2.	<i>Morus rubra</i>	5	Yes	FACU
3.				
4.				
5.				
6.				
7.				
		15	=Total Cover	
Herb Stratum (Plot size: 78 sq ft)				
1.	<i>Solidago altissima</i>	10	Yes	FACU
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		10	=Total Cover	
Woody Vine Stratum (Plot size:)				
1.				
2.				
3.				
4.				
			=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 10	x 2 = 20
FAC species 10	x 3 = 30
FACU species 40	x 4 = 160
UPL species 0	x 5 = 0
Column Totals: 60 (A)	210 (B)
Prevalence Index = B/A = 3.50	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

Remarks: (Include photo numbers here or on a separate sheet.)

Photo 5

SOIL

Sampling Point U5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 3/2							Very Channery Sandy Loam
7-15	10YR 5/6	90	10YR 5/8	5	D	M		And mottles 10YR 5/2

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Dark Surface (S7)

☐

Polyvalue Below Surface (S8) (**LRR R,**
 MLRA 149B)

☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B)**
☐ High Chroma Sands (S11) (**LRR K, L)**
☐ Loamy Mucky Mineral (F1) (**LRR K, L)**
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) (**LRR K, L)**

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B)**
☐ Coast Prairie Redox (A16) (**LRR K, L, R)**
☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R)**
☐ Polyvalue Below Surface (S8) (**LRR K, L)**
☐ Thin Dark Surface (S9) (**LRR K, L)**
☐ Iron-Manganese Masses (F12) (**LRR K, L, R)**
☐ Piedmont Floodplain Soils (F19) (**MLRA 149B)**
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B)**
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ☒ No _____

Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,
Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Lot 7A Hanover City/County: Luzerne County Sampling Date: 10/14/2022
 Applicant/Owner: CanDo State: PA Sampling Point: U6
 Investigator(s): J. E. Gallagher Section, Township, Range: Hanover Township
 Landform (hillside, terrace, etc.): Hills Local relief (concave, convex, none): Concave Slope %: 0-8
 Subregion (LRR or MLRA): LRR R, MLRA 140 Lat: 41.20720567 Long: -75.94534267 Datum: WGS84
 Soil Map Unit Name: Volusia channery silt loam (VoB) NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) 		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u> </u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 		
Remarks: 		

Sampling Point: U6

<u>Tree Stratum</u>	(Plot size: <u>2,827 sq ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				
5.				
6.				
7.				
		=Total Cover		
<u>Sapling/Shrub Stratum</u>	(Plot size: <u>707 sq ft</u>)			
1.				
2.				
3.				
4.				
5.				
6.				
7.				
		=Total Cover		
<u>Herb Stratum</u>	(Plot size: <u>78 sq ft</u>)			
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
		=Total Cover		
<u>Woody Vine Stratum</u>	(Plot size: _____)			
1.				
2.				
3.				
4.				
		=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

Total Number of Dominant Species Across All Strata: _____ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)
Prevalence Index = B/A = _____	

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation

____ 2 - Dominance Test is >50%

____ 3 - Prevalence Index is ≤3.0¹

____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point U6

[illegible]

Appendix C - Wetland Delineation Map

Hanover Lot 7A

Hanover Twp. Luzerne County, PA
Wetland Locations



Hanover Lot 7A

Hanover Twp. Luzerne County, PA
Wetland Locations




Appendix D – Site Photos

Hanover Lot 7A

Hanover Twp. Luzerne County, PA
Photo Location Map

Legend

 Wet

Google Earth



800 ft





Photo A. Typical habitat looking west from the southern property line.



Photo B. Wet area inside the treeline near the southeast corner of the site.



Photo C. View of stream looking west from the eastern property boundary.



Photo D. Wetland A looking northeast from A4.



Photo E. Wetland B looking west from B3.



Photo F. Wetland C looking west from C1.



Photo G. Typical forested upland habitat in the northern portions of the site.



Photo H. Undisturbed field along Great Valley Blvd looking northeast from the northwest corner of the property.

Appendix E - Qualifications

Joseph E. Gallagher
P.O. Box 193 1 Hillside Road
Conyngham, PA 18219
(888) 433-3267

Objective: To use my professional knowledge and experience as a means of promoting the effective management of natural resources.

P R O F E S S I O N A L E X P E R I E N C E

Ecological Solutions, Inc.

August 1, 1996 to

Present

1 Hillside Rd., Conyngham, PA

PRINCIPAL

Sole proprietor of an environmental consulting firm that offers its clients a wide range of experience performing water quality and resource management investigations.

TETHYS Consultants, Inc.

1990 to August 1996

2933 N. Front St., Harrisburg, PA

DIVISION MANAGER

1993 TO 1996

Responsible for the management and development of the Ecological Services Division. Other duties included the marketing of environmental services performed by the Division, overseeing the implementation of all ecologically related projects, and the writing and review of formal reports.

Projects include Wetland Mitigations and Environmental Assessments, Design and Construction of Wetland Mitigation Projects, Lake/Pond Management Plans, Fishery Studies, Benthic Macroinvertebrate Studies, Groundwater Sampling and Phase I Environmental Site Inspections.

PROJECT ECOLOGIST

1990 TO 1993

Responsible for conducting a variety of ecological studies including wetland habitat assessments, aquatic habitat assessments, and biological impact studies.

PA Fish & Wildlife Coop Unit

1986-1990

The Pennsylvania State University
Merkle Laboratory
State College, PA

SR. RESEARCH TECHNICIAN

Responsible for the design and implementation of studies to monitor the influence of mitigation techniques on aquatic communities. Other duties included the management of a macroinvertebrate and water chemistry laboratory, the supervision and training of work study students, input of data to a central database for further analysis, and assisting in the writing of formal reports.

E D U C A T I O N

1986 to 1989	The Pennsylvania State University University Park, PA M.S. in Wildlife and Fisheries Science Emphasis: Fisheries with an Ecology minor. Thesis Topic: The effect of neutralization on the growth of yellow perch (<i>Perca flavescens</i>) in an acidified Pennsylvania lake.
1984	King's College Wilkes Barre, PA Biology/General Science Teaching Certification
1982	University of Maine at Orono Orono, ME B.S. in Biology

C E R T I F I C A T I O N S

- Fish & Wildlife Habitat Evaluation Techniques (HEP)
- PA Modified Habitat Evaluation Techniques (PAMHEP)
- U.S. Army Corps of Engineer's Wetland Certification Program

P R O F E S S I O N A L A F F I L I A T I O N S

- Pennsylvania Association of Lake Managers (PALMS)
- North American Lake Management Society (NALMS)
- American Fisheries Society
- Society of Wetland Scientists
- Audubon Society
- Nature Conservancy

Appendix L Opinion of Probable Cost

Opinion of Probable Construction Costs					
Project:	Proposed Regional Recreational Facility			Prepared By:	WCL
	Hanover Lot 7A			Date:	12/19/23
	Hanover Township, Luzerne County, PA				
Item #	Description	Quantity	Units	Unit Cost	Total Cost
CONCEPT A					
Start-up / General Conditions					\$ 210,000
	Mobilization / Demobilization	1	LS	\$ 25,000	\$ 25,000
	Maintenance and Protection of Traffic	1	LS	\$ 15,000	\$ 15,000
	Survey / Stakeout	1	LS	\$ 20,000	\$ 20,000
	Supervision / General Conditions	1	LS	\$ 150,000	\$ 150,000
Bulk EW / Grading					\$ 1,274,030
	Clearing, grubbing, and stump grinding (if applic.)	27	AC	\$ 4,500	\$ 119,250
	Bulk earthwork to subgrade	110,000	CY	\$ 7	\$ 770,000
	Site grading	128,260	SY	\$ 3	\$ 384,780
E&S / Topsoil / Seeding / Landscaping					\$ 881,213
	Erosion & sedimentation control	1	EA	\$ 150,000	\$ 150,000
	Topsoil Strip, Haul & Stockpiling (Assume 12" Depth of Clearing Limits)	42,753	CY	\$ 4	\$ 171,013
	6" Topsoil Spread	53,240	SY	\$ 5	\$ 266,200
	Fertilize, Lime, Seed & Mulch	11	AC	\$ 4,000	\$ 44,000
	Landscaping Allowance	1	LS	\$ 250,000	\$ 250,000
Utilities / Storm / Paving / Curbing					\$ 1,439,278
	Site utility systems (water, sanitary sewer, natural gas, electric)	1	LS	\$ 150,000	\$ 150,000
	Storm water conveyance facilities	1	LS	\$ 250,000	\$ 250,000
	Storm water management basins	2	EA	\$ 75,000	\$ 150,000
	Heavy Duty Bituminous Paving	16,444	SY	\$ 40	\$ 657,778
	Concrete Curbing	5,900	LF	\$ 35	\$ 206,500
	Concrete Sidewalk	2,500	SF	\$ 10	\$ 25,000
Subsurface Stabilization / Site Remediation					\$ 8,492,900
	Allowance to Excavate unsuitables, haul and waste off-site	50,000	CY	\$ 25	\$ 1,250,000
	Allowance for compacted imported structural fill	75,000	TONS	\$ 20	\$ 1,500,000
	Subsurface Stabilization Allowance @ Indoor Facility	102,000	SF	\$ 30	\$ 3,060,000
	Dynamic compaction of (3) athletic field areas	267,300	SF	\$ 3	\$ 801,900

Item #	Description	Quantity	Units	Unit Cost	Total Cost
CONCEPT A					
	5' deep compacted 2A modified structural fill in all athletic field areas above dynamically compacted native materials	94,050	TONS	\$ 20	\$ 1,881,000
Athletic Facilities					\$ 21,037,000
	Recreational trail	8,700	LF	\$ 40	\$ 348,000
	ADD alternate for ADA surfacing of rec. trail	8,700	LF	\$ 20	\$ 174,000
	Allowance for park amenities (fitness stations, benches, etc.)	1	LS	\$ 325,000	\$ 325,000
	Allowance for ADA accessible sensory playground	1	LS	\$ 250,000	\$ 250,000
	Allowance for ADA accessible restroom facility	1	LS	\$ 200,000	\$ 200,000
	Indoor sports facility (including fit-out and all athletic appurtenances)	102,000	SF	\$ 170	\$ 17,340,000
	Natural turf field @ 225' x 330' max with lighting	3	EA	\$ 750,000	\$ 2,250,000
	ADD COST for synthetic turf @ 225' x 330' max field	0	EA	\$ 950,000	\$ -
	Allowance for misc. athletic facility specialties	1	LS	\$ 150,000	\$ 150,000
				Subtotal	\$ 33,334,421
				-20% CONTINGENCY	\$ 6,666,884
				+20% CONTINGENCY	\$ 6,666,884
LOW RANGE GRAND TOTAL					\$ 26,667,537
HIGH RANGE GRAND TOTAL					\$ 40,001,305
OVERALL COST SUMMARY					
		Low Range	Engineer's Opinion of Probable Cost		High Range
	Site Development Total:	\$26,667,537	\$33,334,421		\$40,001,305

Item #	Description	Quantity	Units	Unit Cost	Total Cost
CONCEPT A					
<u>Qualifications</u>					
1. Based on the current phase of the proposed site development, it is Engineer's opinion that this OPC be prepared according to AACE Class IV guidance					
2. As the project is considered in the conceptual phase, our recommended contingency range is between -20% to +20%					
3. The actual costs to be incurred will be dependent on the final scope of work required to construct the project; including contractor selection, owner's requests, permitting requirements, site constraints, etc.					
4. This OPC is the opinion of the engineer based on past project experience; no contractor bids or solicitations were procured for this OPC.					
5. Design, approvals, and planning costs included in this opinion of costs are limited. There will likely be additional soft costs that may include but not be limited to: design fees, application / review fees, third-party inspections, third-party testing, utility tap-in fees, bonding, etc.					

Opinion of Probable Construction Costs					
Project:	Proposed Regional Recreational Facility			Prepared By:	WCL
	Hanover Lot 7A			Date:	12/19/23
	Hanover Township, Luzerne County, PA				
Item #	Description	Quantity	Units	Unit Cost	Total Cost
CONCEPT B					
Start-up / General Conditions					\$ 210,000
	Mobilization / Demobilization	1	LS	\$ 25,000	\$ 25,000
	Maintenance and Protection of Traffic	1	LS	\$ 15,000	\$ 15,000
	Survey / Stakeout	1	LS	\$ 20,000	\$ 20,000
	Supervision / General Conditions	1	LS	\$ 150,000	\$ 150,000
Bulk EW / Grading					\$ 1,274,030
	Clearing, grubbing, and stump grinding (if applic.)	27	AC	\$ 4,500	\$ 119,250
	Bulk earthwork to subgrade	110,000	CY	\$ 7	\$ 770,000
	Site grading	128,260	SY	\$ 3	\$ 384,780
E&S / Topsoil / Seeding / Landscaping					\$ 881,213
	Erosion & sedimentation control	1	EA	\$ 150,000	\$ 150,000
	Topsoil Strip, Haul & Stockpiling (Assume 12" Depth of Clearing Limits)	42,753	CY	\$ 4	\$ 171,013
	6" Topsoil Spread	53,240	SY	\$ 5	\$ 266,200
	Fertilize, Lime, Seed & Mulch	11	AC	\$ 4,000	\$ 44,000
	Landscape Allowance	1	LS	\$ 250,000	\$ 250,000
Utilities / Storm / Paving / Curbing					\$ 1,103,036
	Site utility systems (water, sanitary sewer, natural gas, electric)	1	LS	\$ 150,000	\$ 150,000
	Storm water conveyance facilities	1	LS	\$ 250,000	\$ 250,000
	Storm water management basins	2	EA	\$ 75,000	\$ 150,000
	Heavy Duty Bituminous Paving	9,170	SY	\$ 40	\$ 366,791
	Concrete Curbing	4,607	LF	\$ 35	\$ 161,245
	Concrete Sidewalk	2,500	SF	\$ 10	\$ 25,000
Subsurface Stabilization / Site Remediation					\$ 7,221,500
	Allowance to Excavate unsuitables, haul and waste off-site	50,000	CY	\$ 25	\$ 1,250,000
	Allowance for compacted imported structural fill	75,000	TONS	\$ 20	\$ 1,500,000
	Dynamic compaction of (5) athletic field areas	445,500	SF	\$ 3	\$ 1,336,500
	5' deep compacted 2A modified structural fill in all athletic field areas above dynamically compacted native materials	156,750	TONS	\$ 20	\$ 3,135,000

Item #	Description	Quantity	Units	Unit Cost	Total Cost
CONCEPT B					
Athletic Facilities					\$ 6,163,800
	Recreational trail	8,980	LF	\$ 40	\$ 359,200
	ADD alternate for ADA surfacing of rec. trail	8,980	LF	\$ 20	\$ 179,600
	Allowance for park amenities (fitness stations, benches, etc.)	1	LS	\$ 325,000	\$ 325,000
	Allowance for ADA accessible sensory playground	1	LS	\$ 250,000	\$ 250,000
	Allowance for ADA accessible restroom facility	1	LS	\$ 200,000	\$ 200,000
	Natural turf field @ 225' x 330' max with lighting	5	EA	\$ 750,000	\$ 3,750,000
	ADD COST for synthetic turf @ 225' x 330' max field	1	EA	\$ 950,000	\$ 950,000
	Allowance for misc. athletic facility specialties	1	LS	\$ 150,000	\$ 150,000
				Subtotal	\$ 16,853,579
				-20% CONTINGENCY	\$ 3,370,716
				+20% CONTINGENCY	\$ 3,370,716
				LOW RANGE GRAND TOTAL	\$ 13,482,864
				HIGH RANGE GRAND TOTAL	\$ 20,224,295
OVERALL COST SUMMARY					
		Low Range	Engineer's Opinion of Probable Cost		High Range
	Site Development Total:	\$13,482,864	\$16,853,579		\$20,224,295
Qualifications					
1. Based on the current phase of the proposed site development, it is Engineer's opinion that this OPC be prepared according to AACE Class IV guidance					
2. As the project is considered in the conceptual phase, our recommended contingency range is between -20% to +20%					
3. The actual costs to be incurred will be dependent on the final scope of work required to construct the project; including contractor selection, owner's requests, permitting requirements, site constraints, etc.					
4. This OPC is the opinion of the engineer based on past project experience; no contractor bids or solicitations were procured for this OPC.					
5. Design, approvals, and planning costs included in this opinion of costs are limited. There will likely be additional soft costs that may include but not be limited to: design fees, application / review fees, third-party inspections, third-party testing, utility tap-in fees, bonding, etc.					

Opinion of Probable Construction Costs					
Project:	Proposed Regional Recreational Facility			Prepared By:	WCL
	Hanover Lot 7A			Date:	12/19/23
	Hanover Township, Luzerne County, PA				
Item #	Description	Quantity	Units	Unit Cost	Total Cost
CONCEPT C					
Start-up / General Conditions					\$ 210,000
	Mobilization / Demobilization	1	LS	\$ 25,000	\$ 25,000
	Maintenance and Protection of Traffic	1	LS	\$ 15,000	\$ 15,000
	Survey / Stakeout	1	LS	\$ 20,000	\$ 20,000
	Supervision / General Conditions	1	LS	\$ 150,000	\$ 150,000
Bulk EW / Grading					\$ 1,274,030
	Clearing, grubbing, and stump grinding (if applic.)	27	AC	\$ 4,500	\$ 119,250
	Bulk earthwork to subgrade	110,000	CY	\$ 7	\$ 770,000
	Site grading	128,260	SY	\$ 3	\$ 384,780
E&S / Topsoil / Seeding / Landscaping					\$ 881,213
	Erosion & sedimentation control	1	EA	\$ 150,000	\$ 150,000
	Topsoil Strip, Haul & Stockpiling (Assume 12" Depth of Clearing Limits)	42,753	CY	\$ 4	\$ 171,013
	6" Topsoil Spread	53,240	SY	\$ 5	\$ 266,200
	Fertilize, Lime, Seed & Mulch	11	AC	\$ 4,000	\$ 44,000
	Landscape Allowance	1	LS	\$ 250,000	\$ 250,000
Utilities / Storm / Paving / Curbing					\$ 1,032,897
	Site utility systems (water, sanitary sewer, natural gas, electric)	1	LS	\$ 150,000	\$ 150,000
	Storm water conveyance facilities	1	LS	\$ 250,000	\$ 250,000
	Storm water management basins	2	EA	\$ 75,000	\$ 150,000
	Heavy Duty Bituminous Paving	8,100	SY	\$ 40	\$ 323,987
	Concrete Curbing	3,826	LF	\$ 35	\$ 133,910
	Concrete Sidewalk	2,500	SF	\$ 10	\$ 25,000
Subsurface Stabilization / Site Remediation					\$ 4,538,600
	Allowance to Excavate unsuitables, haul and waste off-site	50,000	CY	\$ 25	\$ 1,250,000
	Allowance for compacted imported structural fill	75,000	TONS	\$ 20	\$ 1,500,000
	Dynamic compaction of (2) athletic field areas	178,200	SF	\$ 3	\$ 534,600
	5' deep compacted 2A modified structural fill in all athletic field areas above dynamically compacted native materials	62,700	TONS	\$ 20	\$ 1,254,000

Item #	Description	Quantity	Units	Unit Cost	Total Cost
CONCEPT C					
Athletic Facilities					\$ 3,855,045
	Recreational trail	9,872	LF	\$ 40	\$ 394,880
	ADD alternate for ADA surfacing of rec. trail	9,872	LF	\$ 20	\$ 197,440
	Allowance for park amenities (fitness stations, benches, etc.)	1	LS	\$ 325,000	\$ 325,000
	Allowance for ADA accessible sensory playground	1	LS	\$ 250,000	\$ 250,000
	Allowance for ADA accessible restroom facility	1	LS	\$ 200,000	\$ 200,000
	Natural turf field @ 225' x 330' max with lighting	2	EA	\$ 750,000	\$ 1,500,000
	ADD COST for synthetic turf @ 225' x 330' max field	0	EA	\$ 950,000	\$ -
	Allowance for misc. athletic facility specialties	1	LS	\$ 150,000	\$ 150,000
	Pavillion	2	LS	\$ 150,000	\$ 300,000
	Amphitheater / bandshell w/ seating	1	LS	\$ 200,000	\$ 200,000
	Passive Recreation Area	225,150	SF	\$ 1.50	\$ 337,725
				Subtotal	\$ 11,791,785
				-20% CONTINGENCY	\$ 2,358,357
				+20% CONTINGENCY	\$ 2,358,357
				LOW RANGE GRAND TOTAL	\$ 9,433,428
				HIGH RANGE GRAND TOTAL	\$ 14,150,142
OVERALL COST SUMMARY					
		Low Range	Engineer's Opinion of	High Range	
	Site Development Total:	\$9,433,428	\$11,791,785	\$14,150,142	
Qualifications					
1. Based on the current phase of the proposed site development, it is Engineer's opinion that this OPC be prepared according to AACE Class IV guidance					
2. As the project is considered in the conceptual phase, our recommended contingency range is between -20% to +20%					
3. The actual costs to be incurred will be dependent on the final scope of work required to construct the project; including contractor selection, owner's requests, permitting requirements, site constraints, etc.					
4. This OPC is the opinion of the engineer based on past project experience; no contractor bids or solicitations were procured for this OPC.					
5. Design, approvals, and planning costs included in this opinion of costs are limited. There will likely be additional soft costs that may include but not be limited to: design fees, application / review fees, third-party inspections, third-party testing, utility tap-in fees, bonding, etc.					

Opinion of Probable Construction Costs					
Project:	Proposed Regional Recreational Facility			Prepared By:	WCL
	Hanover Lot 7A			Date:	12/19/23
	Hanover Township, Luzerne County, PA				
Item #	Description	Quantity	Units	Unit Cost	Total Cost
CONCEPT D					
Start-up / General Conditions					\$ 210,000
	Mobilization / Demobilization	1	LS	\$ 25,000	\$ 25,000
	Maintenance and Protection of Traffic	1	LS	\$ 15,000	\$ 15,000
	Survey / Stakeout	1	LS	\$ 20,000	\$ 20,000
	Supervision / General Conditions	1	LS	\$ 150,000	\$ 150,000
Bulk EW / Grading					\$ 1,274,030
	Clearing, grubbing, and stump grinding (if applic.)	27	AC	\$ 4,500	\$ 119,250
	Bulk earthwork to subgrade	110,000	CY	\$ 7	\$ 770,000
	Site grading	128,260	SY	\$ 3	\$ 384,780
E&S / Topsoil / Seeding / Landscaping					\$ 881,213
	Erosion & sedimentation control	1	EA	\$ 150,000	\$ 150,000
	Topsoil Strip, Haul & Stockpiling (Assume 12" Depth of Clearing Limits)	42,753	CY	\$ 4	\$ 171,013
	6" Topsoil Spread	53,240	SY	\$ 5	\$ 266,200
	Fertilize, Lime, Seed & Mulch	11	AC	\$ 4,000	\$ 44,000
	Landscape Allowance	1	LS	\$ 250,000	\$ 250,000
Utilities / Storm / Paving / Curbing					\$ 1,126,959
	Site utility systems (water, sanitary sewer, natural gas, electric)	1	LS	\$ 150,000	\$ 150,000
	Storm water conveyance facilities	1	LS	\$ 250,000	\$ 250,000
	Storm water management basins	2	EA	\$ 75,000	\$ 150,000
	Heavy Duty Bituminous Paving	9,548	SY	\$ 40	\$ 381,929
	Concrete Curbing	4,858	LF	\$ 35	\$ 170,030
	Concrete Sidewalk	2,500	SF	\$ 10	\$ 25,000
Subsurface Stabilization / Site Remediation					\$ 2,750,000
	Allowance to Excavate unsuitables, haul and waste off-site	50,000	CY	\$ 25	\$ 1,250,000
	Allowance for compacted imported structural fill	75,000	TONS	\$ 20	\$ 1,500,000
Athletic Facilities					\$ 2,657,980
	Recreational trail	10,850	LF	\$ 40	\$ 434,000
	ADD alternate for ADA surfacing of rec. trail	10,850	LF	\$ 20	\$ 217,000
	Allowance for park amenities (fitness stations, benches, etc.)	1	LS	\$ 325,000	\$ 325,000

Item #	Description	Quantity	Units	Unit Cost	Total Cost
CONCEPT D					
	Allowance for ADA accessible sensory playground	1	LS	\$ 250,000	\$ 250,000
	Allowance for ADA accessible restroom facility	1	LS	\$ 200,000	\$ 200,000
	Pavillion	3	LS	\$ 150,000	\$ 450,000
	Amphitheater / bandshell w/ seating	1	LS	\$ 200,000	\$ 200,000
	Passive Recreation Area	319,583	SF	\$ 1.50	\$ 479,375
	Natural Area	102,605	SF	\$ 1.00	\$ 102,605
				Subtotal	\$ 8,900,182
			-20% CONTINGENCY		\$ 1,780,036
			+20% CONTINGENCY		\$ 1,780,036
		LOW RANGE GRAND TOTAL			\$ 7,120,145
		HIGH RANGE GRAND TOTAL			\$ 10,680,218
OVERALL COST SUMMARY					
		Low Range	Engineer's Opinion of Probable Cost		High Range
	Site Development Total:	\$7,120,145	\$8,900,182		\$10,680,218
Qualifications					
1. Based on the current phase of the proposed site development, it is Engineer's opinion that this OPC be prepared according to AACE Class IV guidance					
2. As the project is considered in the conceptual phase, our recommended contingency range is between -20% to +20%					
3. The actual costs to be incurred will be dependent on the final scope of work required to construct the project; including contractor selection, owner's requests, permitting requirements, site constraints, etc.					
4. This OPC is the opinion of the engineer based on past project experience; no contractor bids or solicitations were procured for this OPC.					
5. Design, approvals, and planning costs included in this opinion of costs are limited. There will likely be additional soft costs that may include but not be limited to: design fees, application / review fees, third-party inspections, third-party testing, utility tap-in fees, bonding, etc.					

Appendix M

Possible Funding Sources



Redevelopment Assistance Capital Program (RACP)

OVERVIEW

The Redevelopment Assistance Capital Program (RACP) is a reimbursement grant program administered by the **Governor's Office of the Budget** for the acquisition and construction of regional economic, cultural, civic, recreational, and historical improvement projects. RACP projects are authorized in the Redevelopment Assistance section of a Capital Budget Itemization Act, have a regional or multi-jurisdictional impact, and generate substantial increases or maintain current levels of employment, tax revenues, or other measures of economic activity. RACP projects are state-funded projects that cannot obtain primary funding under other state programs.

APPLICATION DEADLINE

The e-RACP application is anticipated to open in Summer 2023

AWARD DATE

Anticipated end of 2023

MAXIMUM GRANT AWARD

Grants are available for projects with a total cost of at least \$1 million. Typical award amounts range from \$500,000 – \$2 million.

MATCH REQUIREMENT

RACP is a reimbursement program with a 1 to 1 match requirement. The match must be non-state funds.

ELIGIBLE PROJECTS

RACP projects are primarily economic development projects that have a regional or multi-jurisdictional impact, and generate substantial increases or maintain current levels of employment, tax revenues or other measures of economic activity. This includes projects with cultural, historic, recreational or civic significance.

Reimbursable eligible activities include, but are not limited to: acquisition, demolition, site preparation, private infrastructure work, renovation, permit fees, vertical development, and interest costs during construction.

Other standard project costs, typically defined as “soft costs,” are also eligible as match. RACP projects are often comprised of a discrete, specifically-delineated scope of work within a larger development initiative.

Private sector projects require a partnership with an eligible applicant (see below) to serve as a “pass through” entity for the grant funds.

INELIGIBLE PROJECTS

REDEVELOPMENT ASSISTANCE CAPITAL PROGRAM

NOTICE OF FUNDING AVAILABILITY

- Projects located in a City Revitalization and Improvement Zone (CRIZ) and eligible for CRIZ benefits are not eligible RACP projects.
- Projects that are generally funded through other state programs are not eligible for Redevelopment Assistance Capital Program funds. Examples of those funding sources and projects are as follows:
 - Projects funded by PENNDOT or federal government: highways, vehicular bridges, tunnels
 - Projects funded by PENNVEST: drinking water, wastewater, stormwater and waste disposal facilities *(An exception would be; stormwater, water or sewer infrastructure or tunnels, bridges or roads when associated with a project that is part of an economic development project.)*
 - Other state funded projects

ELIGIBLE APPLICANTS

Municipalities, counties, redevelopment authorities, and industrial development authorities.

APPLICATION PROCESS

Securing a RACP award and drawing down the grants funds is a lengthy, multi-step process that includes:

- Identifying an appropriate line item in a capital budget bill through which Applicants may apply for funding;
- Identifying an appropriate Applicant, such as municipal or county governments, or industrial development or redevelopment authorities;
- Submitting an on-line e-RACP application during an open application round;
- Developing a complete RACP Application and Business Plan upon notice of award, comprised of 22 tabs of project documentation;





Local Share Account (LSA) - Statewide

OVERVIEW

The PA Race Horse Development and Gaming Act (Act 2004-71) as amended has established the Local Share Account – Statewide grant program under the Commonwealth Financing Authority (CFA) for the purpose of distributing a portion of local share assessments to support projects in the public interest.

APPLICATION WINDOW

Sept. 1 - Nov. 30, 2023

AWARD DATE

Anticipated March 2024

MAXIMUM GRANT AWARD

Typical award amounts range from \$25,000 to \$1 million.

MATCH REQUIREMENT

Matching funds are not required for this program. If a project budget includes other funding sources, copies of funding commitment letters and evidence of receipt of funds must be included.

ELIGIBLE APPLICANTS

Eligible applicants include counties, municipalities, municipal authorities, economic development agencies, redevelopment authorities, land banks, and councils of government in Pennsylvania. **A nonprofit organization may have an eligible project; however, an eligible applicant will have to apply on its behalf.**

ELIGIBLE PROJECTS

Projects that improve the quality of life in a community. Eligible projects must be owned and maintained by an eligible applicant or a nonprofit organization. Each application must include a cohesive project scope based on a singular project. This may include multiple phases of the same project. Applicants may also submit multiple applications.

ELIGIBLE USE OF FUNDS

Eligible costs include acquisition; construction; demolition; infrastructure; purchase of vehicles, machinery and/or equipment; planning, consulting and design costs related to planning projects; engineering, design and inspection, to include permitting fees, for construction projects not to exceed 10 percent of the total grant award; administrative costs of the grantee for the purposes of administering the grant, not exceeding 2 percent of the total grant award; and contingency costs not to exceed 5 percent of documented construction and infrastructure costs.

INELIGIBLE PROJECT COSTS

Ineligible project costs include operations and salary costs (with the exception of administrative costs of the grantee directly related to grant administration); consumable supplies; uniforms and personal protective equipment; furniture; training costs; consulting fees (with the exception of costs for an eligible planning project); warranty fees; public relations and marketing costs; fees for securing other financing,

interest on borrowed funds, and/or refinancing of existing debt; lobbying, reparations, fines, application preparation/consultant fees.

Costs incurred prior to the approval of CFA funding, regardless of the project's eligibility, is ineligible for reimbursement.

APPLICATION AND REVIEW CRITERIA

The application must present a project description, cost estimate, ownership notice, resolution to apply, and color-coded map, if applicable. The CFA will review and evaluate applications based on cost, strategic importance, and impact.

APPLICATION FEE

There is a \$100 fee to apply for this grant.



Local Share Account (LSA) – Luzerne County

OVERVIEW

The PA Race Horse Development and Gaming Act (Act 2004-71) as amended has established the Pennsylvania Gaming Local Share Account ("Local Share Account") under the Commonwealth Financing Authority (CFA) for the purpose of distributing 2 percent of gross terminal revenues of certain licensed gaming facilities in an orderly and timely fashion to support and enhance community and economic well-being and mitigate the impact of gaming and related activities.

DEADLINE

Applications will be received between July 1 and September 30, annually.

MAXIMUM GRANT AWARD

There is no fixed maximum grant award; however, grant awards are typically less than Statewide LSA, i.e. approximately no higher than \$500,000.

MATCH REQUIREMENT

Matching funds are not required for this program. If a project budget includes other funding sources, copies of funding commitment letters and evidence of receipt of funds must be included.

ELIGIBLE APPLICANTS

Applicants eligible to apply include:

- All Luzerne County municipalities
- Luzerne County Redevelopment Authority
- Multi-municipal applications are also eligible for funding

**The Luzerne County Redevelopment Authority may only receive funds for economic development or infrastructure projects.*

ELIGIBLE PROJECTS

Projects that improve the quality of life of citizens in the community. Eligible projects must be owned and maintained by an eligible applicant or a nonprofit organization.

ELIGIBLE USE OF FUNDS

Eligible costs include acquisition; construction; demolition; infrastructure; purchase of vehicles, machinery and/or equipment (Personal Protective Equipment is not eligible); planning, consulting and design costs related to planning projects; engineering, design and inspection, to include permitting fees, for construction projects not to exceed 10 percent of the total grant award; administrative costs of the grantee for the purposes of administering the grant, not exceeding 2 percent of the total grant award; and contingency costs not to exceed 5 percent of documented construction and infrastructure costs.

APPLICATION AND REVIEW CRITERIA

The application must present a project description, cost estimate, resolution to apply, and matching funds, if applicable. The CFA will review and evaluate applications based on cost, strategic importance, and impact.

APPLICATION FEE

There is a \$100 fee to apply for this grant.



EPA: Brownfields Assessment, Revolving Loan Fund, and Cleanup Grants

OVERVIEW

The **U.S. Environmental Protection Agency (EPA)** Brownfields Program provides funds to empower states, communities, tribes, and nonprofits to prevent, inventory, assess, clean up, and reuse brownfield sites. For the purposes of EPA's Brownfields grant program, a brownfields site is "a real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Influx of the Bipartisan Infrastructure Law (BIL) funds in 2022 has increased the amount of grant funds available and temporarily eliminated cost share requirements for cleanup and revolving loan fund grants.

DEADLINE

Nov. 13, 2023

AVAILABLE FUNDING

Assessment Grants (funded over four years)

Site-Specific Applicants: Applicants may apply for up to \$500,000 in funding for environmental site assessments, brownfield inventories and reuse or remedial planning.

Clean Up Grants (funded over four years)

Applicants, who must be the property owner, may request funding to address either a single brownfield site, or multiple brownfield sites, within each proposal. EPA offered 3 levels of funding in the 2022 round of applications ranging from \$500,000 to \$2M. This grant typically has a 20% cost share which has been waived under the BIL funding.

Revolving Loan Fund (RLF) Grants (funded over five years)

Grants of \$1M are offered for remediation of brownfield sites. Applicants are not required to own the sites to be remediated but rather will subgrant or loan their funds to site developers for remediation. The intent is that loan repayments will create a replenishing source of funds for brownfield remediation and related activities. This grant typically has a 20% cost share which has been waived under the BIL funding.

ELIGIBLE USES OF FUNDS

Assessment Grants

Assessment Grant funds can be used for the direct costs associated with the inventory, site prioritization, community involvement, site reuse planning, assessment, and cleanup planning for brownfield sites.

Clean Up Grants

In addition to direct costs associated with the cleanup of a brownfield site, Cleanup Grant funds may be used for:

- Direct costs associated with programmatic management of the grant, such as required performance reporting, cleanup oversight, and environmental monitoring of cleanup work
- A local government may use up to 10% of its grant funds for the following activities
 - Health monitoring of populations exposed to hazardous substances from a brownfield site
 - Monitoring and enforcement of any institutional control used to prevent human exposure to any hazardous substance from a brownfield site
- A portion may be used to purchase environmental insurance

RLF Grants

- In addition to subgrants and loans for remediation, once loan funds are repaid into the program, the funds can be used for site assessment, and reuse planning in addition to remediation-related activities.

ELIGIBLE APPLICANTS

Eligible applicants include:

- General Purpose Unit of Local Government
- Land Clearance Authority
- Government entity created by State legislature
- Regional Council established under governmental authority
- Redevelopment Agency that is chartered or otherwise sanctioned by a state
- States
- Indian tribe (other than in Alaska)
- Alaska Native Regional Corporation
- Alaska Native Village Corporation
- Metlakatla Indian Community
- Nonprofit organizations described in section 501(c)(3) of the Internal Revenue Code
- Limited liability corporation in which all managing members are 501(c)(3) nonprofit organizations
- Limited liability corporations whose sole members are 501(c)(3) nonprofit organizations
- Limited partnership in which all general partners are 501(c)(3) nonprofit organizations
- Limited corporations whose sole members are 501(c)(3) nonprofit organizations
- Qualified community development entity

** Clean Up Grant Applicants must own the site(s) for which they are applying.*



INDUSTRIAL SITES REUSE PROGRAM

OVERVIEW

The Industrial Sites Reuse (ISR) Program provides grants and low-interest loans for environmental assessments and remediation. The program is designed to foster the cleanup of environmental contamination at former industrial sites, thereby bringing blighted land into productive reuse. ***ISR Program funds may be used only by eligible applicants who did not cause or contribute to environmental contamination at sites where industrial activity was conducted prior to July 18, 1995.*** Industrial activity is defined as commercial, manufacturing, public utility, mining, distribution of goods and services, research and development, warehousing, stockpiling of raw materials, storage or repair and maintenance of commercial machinery and equipment, and solid waste management.

ORGANIZATION

The program is administered jointly by the Department of Community and Economic Development (DCED) and the Department of Environmental Protection (DEP).

DEADLINE

Rolling deadline as funds are made available; anticipated to be recapitalized in summer 2023

ELIGIBLE APPLICANTS

Environmental Assessment Grants: municipalities, counties, municipal authorities, redevelopment authorities, and economic development agencies that are applying for projects located in: (a) targeted communities as designated by DCED; (b) boroughs with a population large enough for the borough to qualify to be chartered as a third class city; and (c) cities of the first class, second class, second class A, and third class may apply on their own behalf or on behalf of a private company or investor/developer. Also, municipalities, counties, municipal authorities, redevelopment authorities, and economic development agencies that own the site on which the assessment is being conducted and that will oversee the cleanup of the site may apply for grants.

Environmental Remediation Grants: municipalities, counties, municipal authorities, redevelopment authorities, and economic development agencies may apply for grants to conduct environmental remediation work if they own the site and will oversee the cleanup of the site.

Environmental Assessments and Remediation Loans: municipalities, counties, municipal authorities, redevelopment authorities, economic development agencies, private companies, and investor/developers.

MAXIMUM AWARD AMOUNTS AND MATCH REQUIREMENTS

- The maximum amount to be awarded for any assessment project ***will not exceed 75% of the total cost of the assessment, or \$200,000, whichever is less,*** in a single fiscal year.
- The maximum amount to be awarded for any remediation project ***will not exceed 75% of the total cost of remediation, or \$1 million for grant recipients, whichever is less,*** in a single fiscal year. Remediation loans may exceed \$1 million based on the substantiated need for low-interest financing to maintain the validity of the remediation project.

LOAN RATE AND TERMS

- The interest rate on all industrial sites reuse loans will be 2%.
- The term for loans used for assessments shall not exceed 5 years.
- The term for loans used for remediation will depend on the nature and duration of remediation measures, but will not exceed 15 years.

ELIGIBLE PROJECTS

- Phase I Environmental Assessments
- Phase II and III Environmental Assessments
- Remediation of Hazardous Substances
 - Funds may be used for the removal and remediation of hazardous substances and contaminants in accordance with the remediation standards established under Act 2 of 1995, the Land Recycling and Environmental Remediation Standards Act.
 - Remediation activities include but are not limited to: removal of containers, regulated substances, or contaminated media; onsite and offsite treatment or incineration, or destruction or segregation of wastes; groundwater treatment, provision of alternative water supplies; storage and containment; covering; neutralization; recycling and reuse; repair or replacement of containers or collection systems; fencing and other security measures; and monitoring and maintenance.
- Remediation of Nonhazardous Waste or Debris
 - Loan funds may be used in accordance with Section IV. C. of these guidelines for the cleanup of nonhazardous waste and debris including, but not limited to, waste tires, coal refuse and other waste materials from previous mining activities, and other substances that are present at brownfields sites, but not identified as hazardous substances under Act 2 of 1995.



Greenways, Trails, and Recreation Program

OVERVIEW

Act 13 of 2012 establishes the Marcellus Legacy Fund and allocates funds to the Commonwealth Financing Authority (Authority) for planning, acquisition, development, rehabilitation and repair of greenways, recreational trails, open space, parks and beautification projects.

ORGANIZATION

Commonwealth Financing Authority (CFA)

DEADLINE

Annually, in May

MAXIMUM GRANT AWARD

\$250,000

MATCH REQUIREMENT

Projects require a 15% local cash match of the total project cost or cash equivalents for the appraised value of real estate.

ELIGIBLE PROJECTS

- **Public Park and Recreation Areas** – These projects involve the rehabilitation and development of public indoor and/or outdoor park, recreation and conservation areas and facilities. Property may be acquired for active and/or passive recreation use to create new park and recreation areas and/or expand existing recreational sites.
- **Greenways and Trails** – These projects involve the renovation and development of linear public facilities, such as bicycle, walking, equestrian, snowmobile, and nature trails; passive recreation areas; riparian forest buffers; wetland boardwalks; observation decks. Related support facilities including: access roads, parking areas, walks, comfort station, lighting, landscaping, and signage are also eligible.
- **Rivers Conservation** – These projects enhance rivers, streams, and watersheds for recreational purposes.

ELIGIBLE APPLICANTS

- Municipality, councils of governments, authorized organization, institution of higher education, watershed organization, and for profit businesses

APPLICATION REQUIREMENTS

Proposal Narrative, Detailed Cost Estimate, Funding Commitment Letters, Location Map, Planning Consistency Letters, Audited Financials, Resolution (*Public Applicants*), Government Notifications, Support Letters



Community Projects Funding (CPF)

OVERVIEW

Community Projects Funding requests, sometimes called earmarks or congressionally directed spending, are for funding requested for a specific project in a specific location. These projects must fit within Appropriations Committee guidance and are subject to rigorous review.

ORGANIZATION

U.S. House of Representatives and U.S. Senate

TIMELINE

Application deadline anticipated annually in the spring. Notification of award is announced when the annual federal budget is voted on, which is expected in the winter.

MAXIMUM GRANT AWARD

Amounts vary by congressional district.

MATCH REQUIREMENT

Match should be considered as a potential requirement depending on the nature of the project and what federal account the earmark may fall under. Match funds may not be required immediately, but rather there should be a plan in place to acquire matching funds. Congressional offices will discuss this topic on a case-by-case basis with applicants.

ELIGIBLE PROJECTS

Potentially eligible projects range from infrastructure, community programs, university research, hospitals and other local initiatives.

ELIGIBLE APPLICANTS

State, Local, and Tribal governmental entities; Nonprofits

APPLICATION PROCESS

Each member of Congress is responsible for identifying his or her own process and submission timeline. After their respective deadlines, each member will submit his or her requests to the Appropriations Committees to review the requests.



Community Conservation Partnerships Program (C2P2)

ELIGIBLE APPLICANTS

Counties, municipalities, municipal agencies, nonprofit organizations, state heritage areas, prequalified land trusts, and for-profit enterprises (for some grant types)

DEADLINE

Annually, in April

ELIGIBLE PROJECTS

Community Conservation Partnerships Program grants can fund:

- Planning, acquisition, and development of public parks
- Recreation areas
- Motorized and non-motorized trails
- River conservation and access
- Conservation of open space

Planning projects “lay the groundwork” for future land acquisition, development, and/or management of parks, recreational facilities, critical habitat, open space, natural areas, greenways, and river/watershed corridors. Examples include:

- Master Site Development Plan
- Swimming Pool Complex Feasibility Study
- Indoor Recreation Facility Feasibility Study
- Comprehensive Recreation, Park and Open Space and Greenway Plan
- Rivers Conservation Plan
- Land Conservation and Stewardship Plan
- Combination Projects

Park Rehabilitation and Development Funding projects involve the rehabilitation and development of public parks, recreation facilities, greenways, facilities and river conservation projects. Examples include:

- Pedestrian walkways
- Internal loop trails
- Amphitheaters and pavilions
- Playground installation
- Sports field installation

Land Acquisition and Conservation Funding projects involve the purchase and/or donation of land for:

- Park and recreation areas
- Greenways
- Critical habitat areas
- Open space

Trail projects include the acquisition, planning, development, rehabilitation, or maintenance of designated routes on land or water for motorized and non-motorized recreation activities. This includes

the purchase of equipment for trail construction or maintenance. Examples of project that can be funded include:

- Acquisition
- Planning
- Development, rehabilitation, or maintenance
- Purchase of equipment
- Education programs

MAXIMUM FUNDING REQUEST

Small Community (SC) Program

- Limited to Municipalities with a population of 5,000 or less
- Grants are available for the rehabilitation and/or new development of basic outdoor recreation and park facilities that provide a high level of recreational value (e.g. Playgrounds, Pavilions, etc.)
- Projects exceeding \$110,000 in value are not eligible for this Program
- Total project costs range from \$70,00 - \$110,000
- Grants will range from \$50,000 - \$70,000
- The first \$30,000 of Grant Funding does NOT require a Match; after that, the grant will require a \$1 for \$ 1 match

MATCHING REQUIREMENTS

Most programs require a minimum cash or noncash matching contribution from the applicant that is equal to 50 percent of the project cost.

ADA ACCESSIBILITY REQUIREMENT

All Development, Planning and Trail Projects, require applicants to comply with the 2010 ADA Standards for Accessible Design.



BUREAU OF RECREATION AND CONSERVATION

Title: Small Community Program Policy – Development Only		
Issued by: The Bureau of Recreation and Conservation (BRC)	Effective Date: 12/30/09 Scheduled Review: Annual	Document Number: 2300-033
Reviewed: 10/7/22	Revised: 12/5/18; 10/21/19; 9/1/20; 10/7/22	
Approved By: Tom Ford, Bureau Director	Program Area: All	

AUTHORITY

Act 18 of 1995, Section 306, Community Recreation and Heritage Conservation. The Department shall have the power to administer Federal and State programs for grants and loans to local governments, municipal authorities and nonprofit organizations for community and regional projects involving the planning, acquisition, rehabilitation and development of public park, recreation and conservation areas, facilities and programs.

SCOPE

Provides directive for administration of the Community Conservation Partnerships Grant Program

PURPOSE

The Keystone Recreation, Park and Conservation Fund Act (Act 50 of 1993) authorizes the Department of Conservation and Natural Resources (DCNR) to award grant funds with smaller match requirements to Commonwealth municipalities with a population of 5,000 or less. This policy outlines the priorities and requirements of the Small Community Program.

POLICY

Commonwealth municipalities with a population of 5,000 or less, as documented in the most recent U.S. Census, are eligible to receive grant funds for rehabilitation and/or new development of basic outdoor recreation and park facilities under the Small Community Program. Eligible municipalities may request a minimum of \$60,000 and a maximum of \$100,000 in grant funds. The required match is calculated based on the grant award amount. Eligible municipalities are strongly encouraged to request the maximum grant amount to ensure compliance with program requirements and successful completion of the project. Municipalities with large and complex projects should apply for a Park Rehabilitation and Development (PRD) grant which allows for larger grant requests and requires \$1 for \$1 match.

A. Small Community Program Priorities and Requirements:

- 1. Priorities:** Grants are available for the rehabilitation and/or new development of basic outdoor recreation and park facilities that provide a high level of recreational value. The project site must be owned or controlled by the eligible municipality and open to the public. The grant-funded project must be complete and functional and comply with current safety and ADA design standards (accessible routes, parking, amenities, etc.). These grants are best suited for rehabilitation and/or new development of basic facilities such as playgrounds, pavilions, prefabricated restrooms, and sport courts with ADA accessibility.
- 2. Separation of Project Costs:** The funding legislation requires the separation of costs for Professional Service Fees and Construction Costs. Construction Costs are comprised of Materials, Equipment, and Labor. The detailed budget form submitted with the grant application and the final project accounting must itemize all costs into these categories. Lump sums will not be accepted.

3. **Total Project Costs:** Total Project Costs under the Grant Program include all Professional Service Fees and Construction Costs (materials, equipment, and labor) associated with a complete and functional project.
4. **Match:** The required match is calculated based on the grant award amount. The required match may be all cash or a combination of cash and non-cash value. Cash match is strongly encouraged. All non-cash value proposed as match must be pre-approved to ensure program eligibility.
5. **Professional Service Fees:** Professional Service Fees may include design costs associated with the development of drawings and specifications by a licensed architect, landscape architect, or engineer; bid advertisements and postage; construction observation; property surveys; solicitor/attorney fees; permitting fees; etc.
 - a) \$10,000 of the grant award is earmarked for Professional Service Fees and does not require a match. This \$10,000 cannot be used for Construction Costs (materials, equipment, or labor). Any unused balance earmarked for Professional Service Fees will be returned to DCNR and disencumbered from the Grant Agreement.
 - b) Professional Service Fees exceeding \$10,000 may also be eligible for reimbursement. Total reimbursement of Professional Service Fees is limited to a maximum of 20% of the total eligible construction costs.
 - c) In small communities where capacity may be limited, the Professional Service Fees allowance is intended to support a greater leadership role by a design consultant to ensure compliance with program and permitting requirements for successful completion of the project. Roles and responsibilities may include community and municipal leadership engagement, grant management oversight, construction management and/or observation, etc.
6. **Construction Costs:** Construction Costs include Materials, Equipment, and Labor.
 - a) \$20,000 of the grant award is earmarked for Materials and/or Equipment Costs and does not require a match.
 - b) Grant dollars above \$30,000 may be used for Materials, Equipment, and/or Labor Costs. Additional Professional Service Fees may also be eligible but cannot exceed the maximum of 20% of total eligible construction costs.
7. **Small Community Program Grant Examples:** Eligible municipalities may request a minimum of \$60,000 and a maximum of \$100,000 in grant funds. The first \$30,000 in grant funds does not require a match. Each grant dollar above \$30,000 requires a \$1 for \$1 match. Examples are as follows:

DCNR Grant	Match Requirement	Total Project Costs (Grant + Match)
\$60,000	\$30,000	\$90,000
\$70,000	\$40,000	\$110,000
\$80,000	\$50,000	\$130,000
\$90,000	\$60,000	\$150,000
\$100,000	\$70,000	\$170,000

8. **Grant Request Less Than \$60,000:** A grant request for less than the minimum of \$60,000 will be considered on a case-by-case basis. Prior to the grant submission deadline, the Applicant must discuss the project proposal and grant program requirements with the appropriate DCNR Regional

Advisor. The DCNR Regional Advisor is then responsible for notifying Central Office Staff of the request and reaching consensus on project viability.

B. Additional Considerations:

1. Municipalities that are eligible for a Small Community Program Development grant based on population are not required to apply under the Small Community Program. Municipalities are eligible for several different funding programs offered by DCNR, each with unique requirements. Municipalities should consult the appropriate DCNR Regional Advisor to discuss potential projects and determine the most appropriate funding opportunity.
2. If an eligible municipality applies for a Small Community Program Development grant, they may not also apply for a Park Rehabilitation and Development grant in the same grant cycle.
3. The Small Community Program funding opportunity is restricted to Park Development projects. Land Acquisition, Planning, and Motorized/Non-Motorized Trail* project types are ineligible for grant funding under the Small Community Program. Development of pathways and trails within a park are eligible.

***Note:** Trail Projects include the acquisition, planning, development, rehabilitation, or maintenance of designated routes on land or water for motorized and non-motorized recreational activities. A project that has at least 75% of the total project cost related to trail activities and/or trailside facilities is classified as a Trail Project.

4. If selected for grant funding, upon receipt of a fully executed Grant Agreement, the Grantee may submit a completed Partial Payment Request form for 50% of the grant award. All payments are subject to the Grant Agreement Terms and Conditions.
5. DCNR reserves the right, at its sole discretion, to implement Small Community Program pilot projects as alternate funding sources become available.

DISCLAIMER

The policies and procedures outlined in this guidance document are intended to supplement existing requirements. The policies and procedures herein are not an adjudication or a regulation. There is no intent on the part of DCNR to give the rules in these policies that weight or deference. This document establishes the framework within which DCNR will exercise its administrative discretion in the future.

PAGE LENGTH

3 pages

EFFECTIVE DATE

Immediately. This policy is to be reviewed and updated every year.

EXPIRATION

This policy remains in effect until revised or rescinded.

Tom Ford, Bureau Director

10/7/22

Name/Title of Bureau or Office Director

Date