

# 1. PROJECT INFORMATION

Project Name: **Solar PPA**

Date of review: **5/27/2014 2:53:49 PM**

Project Category: **Energy Storage, Production, and Transfer, Energy Production (generation), Solar Power Facility -- new or expansion**

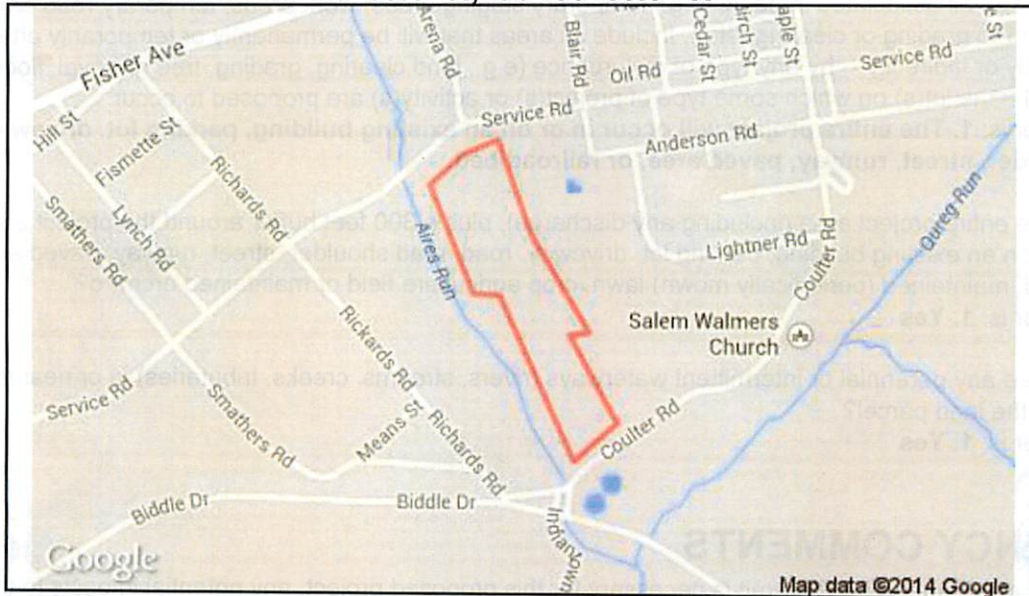
Project Area: **17.5 acres**

County: **Lebanon Township/Municipality: Union**

Quadrangle Name: **INDIANTOWN GAP ~ ZIP Code: 17003**

Decimal Degrees: **40.430591 N, -76.555169 W**

Degrees Minutes Seconds: **40° 25' 50.1" N, -76° 33' 18.6" W**



# 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	Potential Impact	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
PA Department of Conservation and Natural Resources	Conservation Measure	<b>No Further Review Required, See Agency Comments</b>
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	Avoidance Measure	<b>See Agency Response</b>

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASPGP.

## RESPONSE TO QUESTION(S) ASKED

**Q1:** Accurately describe what is known about wetland presence in the project area or on the land parcel by selecting ONE of the following. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.

Your answer is: **1. The entire project will occur in or on an existing building, parking lot, driveway, road, road shoulder, street, runway, paved area, or railroad bed.**

**Q2:** "Will the entire project area (including any discharge), plus a 300 feet buffer around the project area, all occur in or on an existing building, parking lot, driveway, road, road shoulder, street, runway, paved area, railroad bed, maintained (periodically mown) lawn, crop agriculture field or maintained orchard?"

Your answer is: **1. Yes**

**Q3:** Are there any perennial or intermittent waterways (rivers, streams, creeks, tributaries) in or near the project area, or on the land parcel?

Your answer is: **1. Yes**

## 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:** Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

## PA Department of Conservation and Natural Resources

**RESPONSE:** Conservation Measure: Please avoid the introduction of invasive species in order to protect the

integrity of nearby plant species of special concern. Voluntary cleaning of equipment/vehicles, using clean fill and mulch, and avoiding planting invasive species (<http://www.dcnr.state.pa.us/forestry/invasivetutorial/index.htm>) will help to conserve sensitive plant habitats.

**DCNR Species:** (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here: [http://www.gis.dcnr.state.pa.us/hgis-er/PNDI\\_DCNr.aspx](http://www.gis.dcnr.state.pa.us/hgis-er/PNDI_DCNr.aspx).)

**Scientific Name:** *Triosteum angustifolium*

**Common Name:** Horse-gentian

**Current Status:** Special Concern Species\*

**Proposed Status:** Endangered

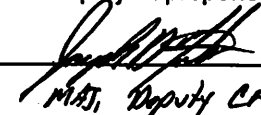
## PA Fish and Boat Commission

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

## U.S. Fish and Wildlife Service

**RESPONSE:** Avoidance Measure: Do not conduct this project/activity within 50 feet of any streams, rivers, creeks, or tributaries. This includes both perennial and intermittent waterways.

As the project proponent or applicant, I certify that I will implement the above Avoidance Measure:

  
\_\_\_\_\_(Signature)  
M.A.S. Deputy CFMO

**SPECIAL NOTE:** If you agree to implement the above Avoidance Measure, no further coordination with this agency regarding threatened and endangered species and/or special concern species and resources is required. If you are not able to comply with the Avoidance Measures, you are required to coordinate with this agency - please send project information to this agency for review (see "What to Send" section).

\* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

\*\* Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

## WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

**Check-list of Minimum Materials to be submitted:**

- SIGNED** copy of this Project Environmental Review Receipt
- Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

**The inclusion of the following information may expedite the review process.**

- A basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams

#### **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. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

### 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  
Fax:(717) 772-0271

**U.S. Fish and Wildlife Service**  
Endangered Species Section  
315 South Allen Street, Suite 322, State College, PA.  
16801-4851  
NO Faxes Please.

**PA Fish and Boat Commission**  
Division of Environmental Services  
450 Robinson Lane, Bellefonte, PA. 16823-7437  
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  
Fax:(717) 787-6957

### 7. PROJECT CONTACT INFORMATION

Name: Emily Shertzer →  
Company/Business Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Phone:( ) \_\_\_\_\_ Fax:( ) \_\_\_\_\_  
Email: \_\_\_\_\_



**Emily J. Shertzer**  
Environmental Planner

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eshertzer@state.pa.us

[www.dmva.state.pa.us](http://www.dmva.state.pa.us)

### 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.

Emily Shertzer MAT Deputy CEMO      28 May 14  
applicant/project proponent signature      date

## Solar Farm Lease/Purchase Power Agreement

### Project Narrative

The proposed project is to construct a 3MW Solar Photo-Voltaic (PV) electricity generation system at Fort Indiantown Gap (FTIG) via a Purchase Power Agreement (PPA). The PPA will include a lease of a 17 acre site/parcel at FTIG for at least 10 but less than 20 years. The PPA might also include supplemental agreement for the PV firm/contractor team to also provide FTIG's entire electricity requirement for up to five years.

The site is currently a grass field, which is maintained by periodic mowing. It is located in Area 4 of FTIG, Union Township, Lebanon County. The site is bounded by Service Rd. to the north, Aires Run to the west, and Coulter Rd. to the south. See attached maps.

Photos (taken 18 April 2014)



View from "top" of site looking north toward Service Rd.



View from "top" of site looking south toward Coulter Rd.



View from "top" of site looking east



View from "top" of site looking northwest, along Service Rd.



View from "center" of site looking west toward Aires Run





View from "center" of site looking south toward Coulter Rd.



View from "center" of site looking north



View from “bottom” of site looking south toward Coulter Rd.



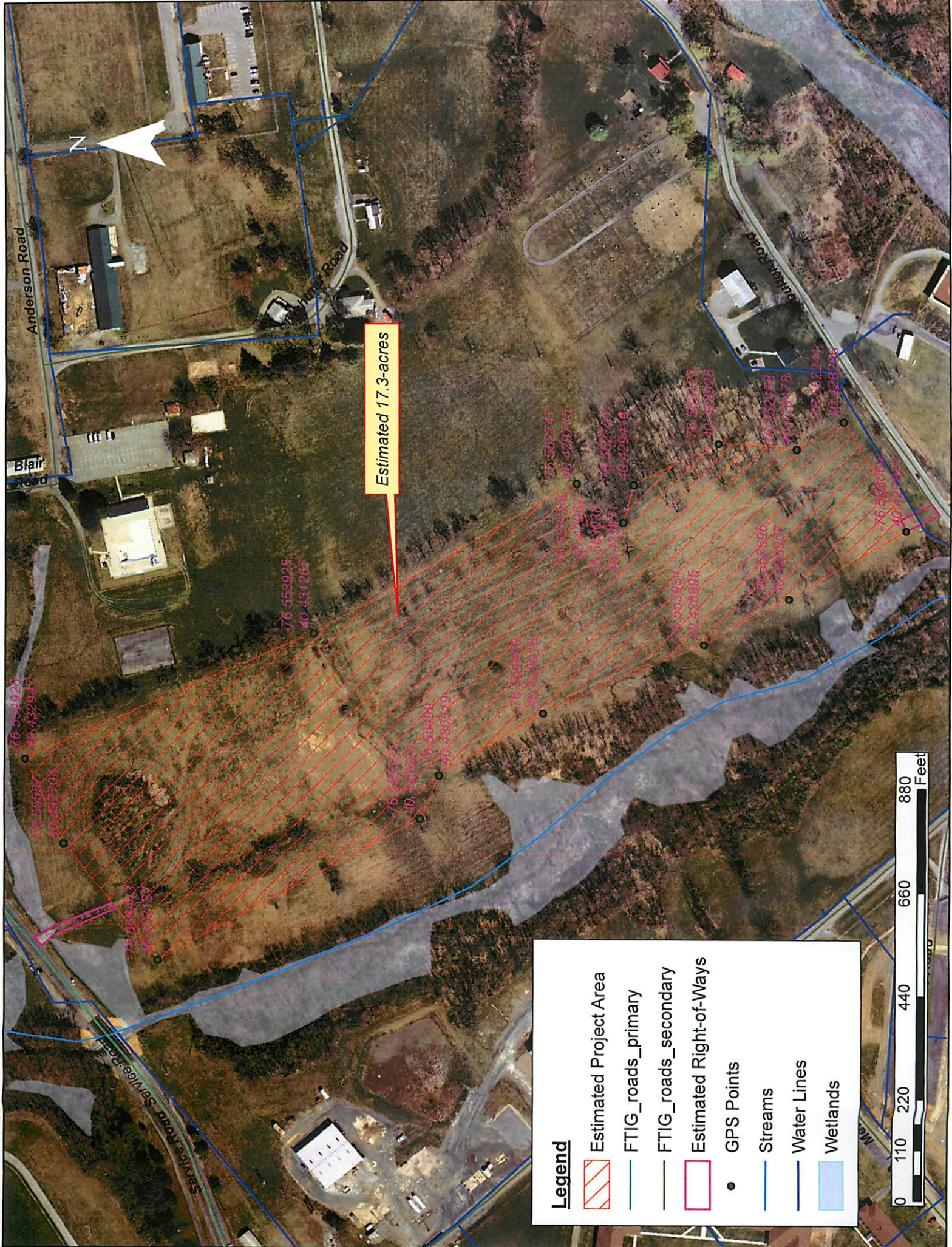
View from “bottom” of site looking northeast



View from "bottom" of site looking east











View from "bottom" of site looking northwest

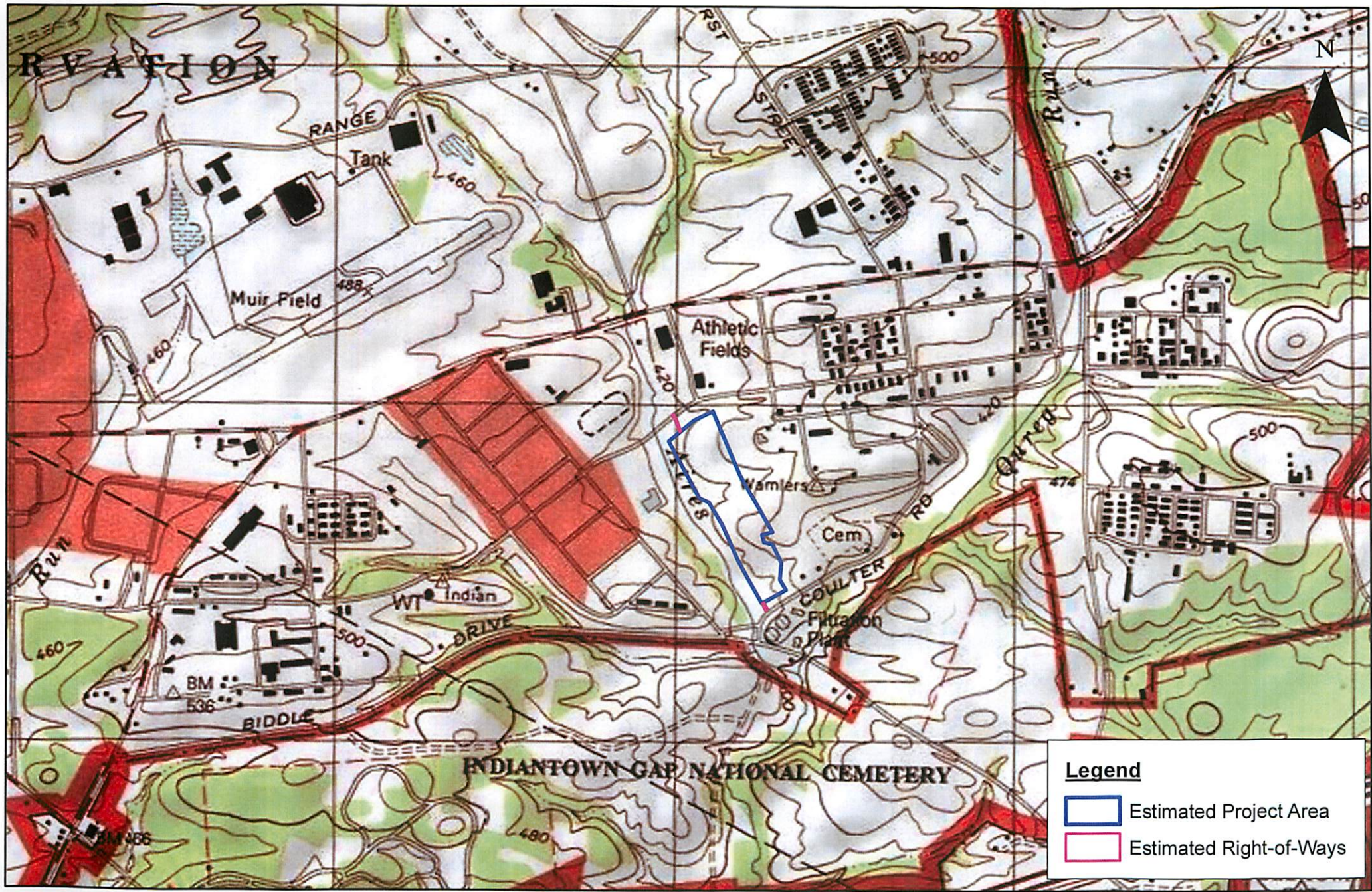


Estimated 17.3-acres

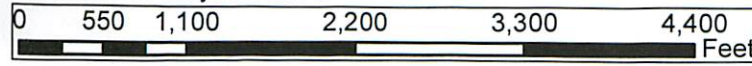
**Legend**

-  Estimated Project Area
-  FTIG\_roads\_primary
-  FTIG\_roads\_secondary
-  Estimated Right-of-Ways
-  GPS Points
-  Streams
-  Water Lines
-  Wetlands





PENNSYLVANIA  
 NAD 1983 UTM Zone 18N  
 Prepared by PADMVA-OFE-BEM  
 COMM: (717) 861-2634 DSN: 491-2634  
 Created: 28 May 2014 drv



**Topographic Map**  
 USGS 7.5-minute Indiantown Gap, Pennsylvania  
 Topographic Map  
 Date: 1999  
 Fort Indiantown Gap  
 Union Township, Lebanon County, Pennsylvania

**Legend**

- Estimated Project Area
- Estimated Right-of-Ways

The information on this map is for planning purposes only. This information is not intended for use for legal boundary definitions, regulatory interpretation, or parcel-level analysis. This map is a living document, in that it is intended to change as new data become available and are incorporated into the Enterprise GIS database.