



What Makes a Good Project, a *Good Project?*

319 Grantee Annual Meeting
April 12, 2016

Characteristics of a *Good Project*

1. Directly connected to the **WIP**.
2. Accomplishes **goals/objectives** of the NPS Program (**Management Plan**).
3. Directly addresses **sources of impairment (Integrated List)**.
4. Incorporates talents from **numerous partners**.
5. Accomplishes goals for those partners.
6. **Builds on** previous **work** at a functional **watershed scale** (2mi² to 10mi²).
7. Is **cost effective**.
8. Low **maintenance**.

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WIP

Concept

1. Project referenced in the WIP; WIP referenced in the project.
2. Accomplishes a **known “amount”** of the WIP.
 - consider GRTS

Application

- Applicable Grant Application sections:
 - Executive Summary
 - Work Plan
- State **which project** (as described in the WIP) is being proposed.
- State **what priority** the project is as described in the WIP.

WIP

Concept

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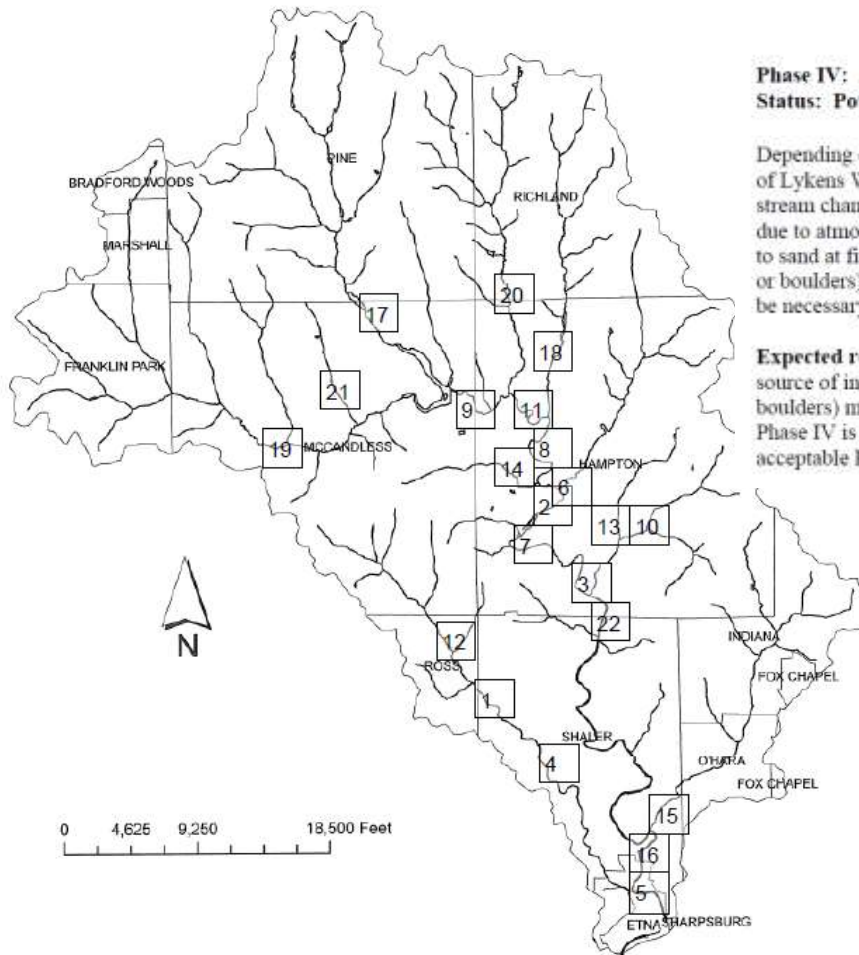
Example Statements:

“This project will be the 5th project implemented in this sub-watershed and the 15th of this WIP.”

“With the completion of this project, we will achieve 80% of our goal to implement [X quantity] of [BMP].”

Application

- Applicable Grant Application sections:
 - Executive Summary
 - Work Plan
- State which project (as described in the WIP) is being proposed.
- State what priority the project is as described in the WIP.



Phase IV: Addition of limestone to Bear Creek and Unnamed Tributary.
Status: Potential Future Project if found to be necessary

Depending on the results of investigations as to the source(s) of acidity in Bear Creek upstream of Lykens Water Level Tunnel and the Unnamed Tributary, the addition of limestone to the stream channel(s) may prove useful at these sites as a way to treat the diffuse source of acidity due to atmospheric deposition. The size of the limestone placed in the channel may be similar to sand at first but may transition to larger sizes that last much longer in the stream (ie. Cobble or boulders) once the initial desired effect is achieved. Periodic replenishing of limestone may be necessary.

Expected results: If atmospheric deposition or small acidic discharges are found to be the source of increased acidity/ depressed pH, the addition of the limestone (sand, cobble, or boulders) may increase the buffering capacity of the affected areas. It is anticipated that if Phase IV is required and then completed, pH levels in these affected areas would rise to acceptable levels.

No two WIPs look exactly the same, but most will have some specific projects detailed in the document. Some may be in map form, others in list or table form. A *Good Project* will state which project is being implemented.

Map 4-2: Potential Pine Creek Stream Restoration Projects

Management Plan

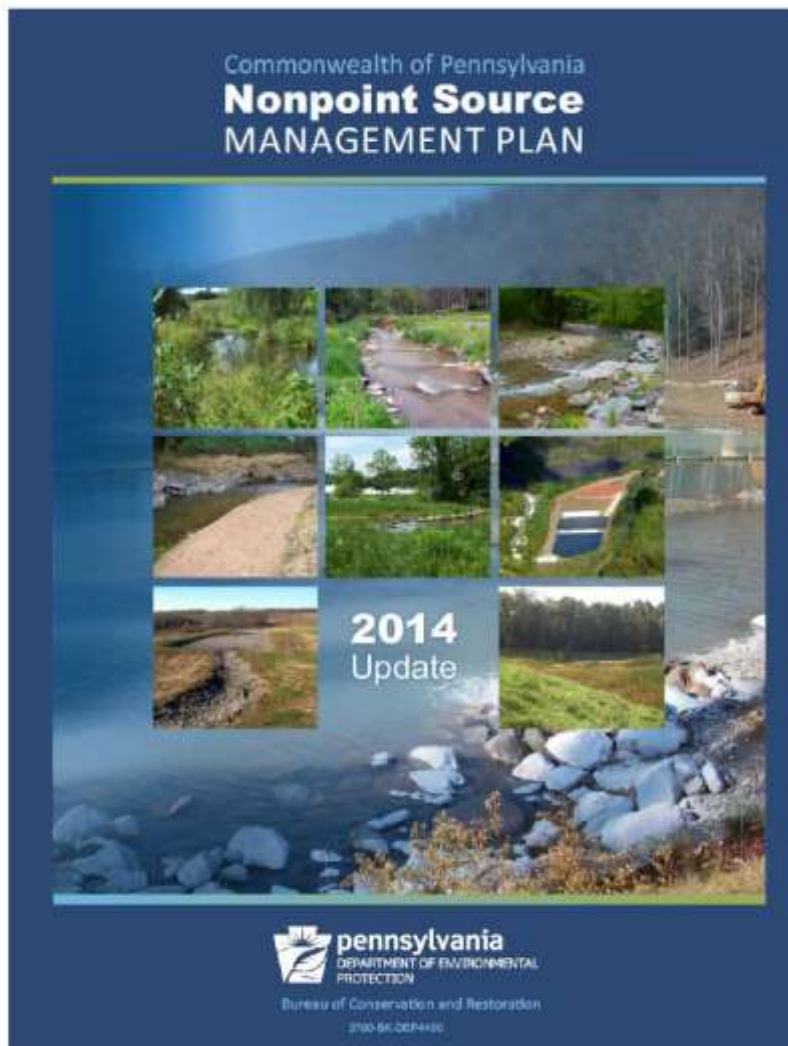
Concept

1. Project should work to accomplish ***a “goal” of the Management Plan.***
2. Project should work to accomplish a quantitative **“objective” of the Management Plan**
 - See Appendix A of the Management Plan
 - See Appendix A and B of the 2015 NPS Annual Report.

Application

- Applicable Grant Application sections:
 - Executive Summary
 - Work Plan
- State which Goal and Objective are being considered
- Include quantities

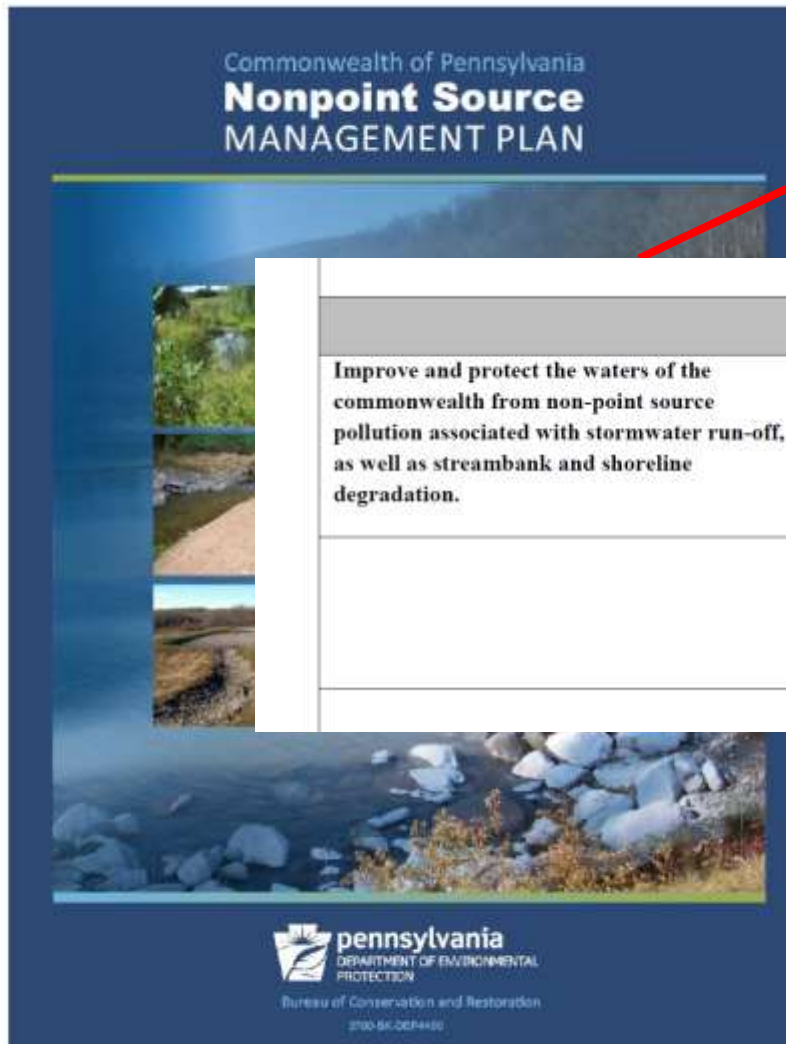
Management Plan



Appendix A: Tracking Table

| Goal | Objective | 2015 2014 | 2015 2014 | 2015 2014 | 2015 2014 | 2015 2014 |
|--|---|-------------------------|--------------|--------------|--------------|--------------|
| | | Percent Amount Achieved | | | | |
| Improve and protect the waters of the Commonwealth from non-point source pollution associated with Abandoned Mine Drainage and other legacy resource restoration activities. | 1.1 Provide for the operation and maintenance of all Pennsylvania-operated ADEM treatment systems each year for the next five years. | | | | | |
| | 1.2 Engage in land retirement projects resulting in the retirement of 100 acres of abandoned mine lands (ADML) each year for the next five years. | | | | | |
| | 1.3 Provide funding and other resources for the installation of five new ADEM treatment systems annually for the next 5 years. | | | | | |
| | 1.4 Accelerate TSPC-ADML Quick Response projects each year for the next five years. | | | | | |
| | 1.5 Flag 50 rd and gas wells each year for the next five years. | | | | | |
| | 1.6 Through land-reduction efforts with the installation of five new ADEM treatment systems, an additional 18,000 pounds of silt will be reduced from the non-point source pollutant stream each year. | | | | | |
| | 1.7 Through land-reduction efforts with the installation of five new ADEM treatment systems, an additional 5,000 pounds of sediment will be reduced from the non-point source pollutant stream each year. | | | | | |
| | 1.8 Through land-reduction efforts with the installation of five new ADEM treatment systems, an additional 18,000 pounds of acidity will be reduced from the non-point source pollutant stream each year. | | | | | |
| | 1.9 Through land-reduction efforts with the current operational practice treatment systems, 1,000,000 pounds of silt will continue to be reduced from the non-point source pollutant stream each year. | | | | | |

Management Plan



Improve and protect the waters of the commonwealth from non-point source pollution associated with stormwater run-off, as well as streambank and shoreline degradation.

3.1 Conduct 11 Chapter 102 and annually for the

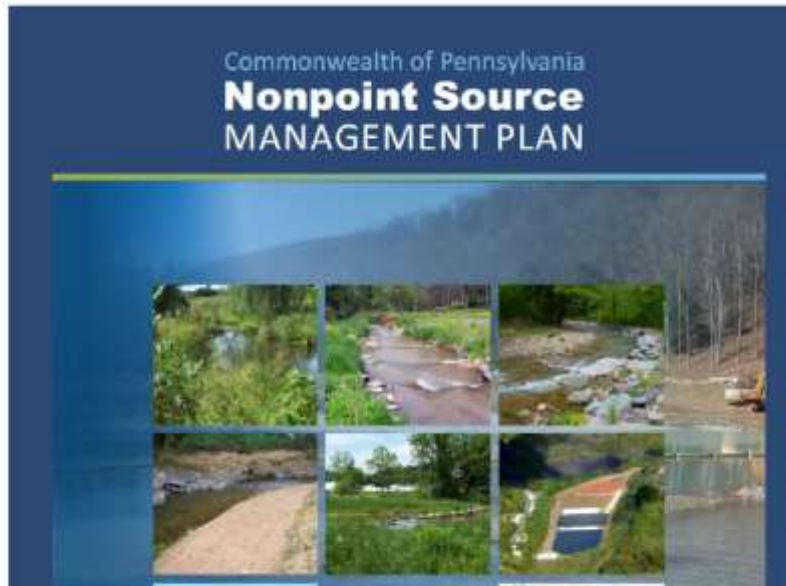
3.2 Continue to program through verification that by their permit

3.3 Continue to

Appendix A Tracking Table

| Goal | Objective | FY 2014 | FY 2015 | FY 2016 | FY 2017 | FY 2018 | FY 2019 |
|--|--|------------------------|---------|---------|---------|---------|---------|
| | | Actual Amount Achieved | | | | | |
| Improve and protect the waters of the commonwealth from non-point source pollution associated with Abandoned Mine Drainage and other legacy resource restoration activities. | Provide for the operation and maintenance of all Pennsylvania approved A/D treatment systems each year for the next five years. | | | | | | |
| | 1.1 Engage in land retirement projects resulting in the retirement of 100 acres of abandoned mine lands (AML) each year for the next five years. | | | | | | |
| | 1.2 Provide funding and other resources for the installation of five new A/D treatment systems annually for the next 3 years. | | | | | | |
| | 1.4 Accelerate TSP/ADSR (Quick Response) projects each year for the next five years. | | | | | | |
| | 1.7 Plug 60 oil and gas wells each year for the next five years. | | | | | | |
| | 1.8 Through land-reduction efforts with the installation of five new A/D treatment systems, an additional 10,000 pounds of silt will be reduced from the non-point source pollutant stream each year. | | | | | | |
| | 1.9 Through land-reduction efforts with the installation of five new A/D treatment systems, an additional 5,000 pounds of sediment will be reduced from the non-point source pollutant stream each year. | | | | | | |
| | 1.8 Through land-reduction efforts with the installation of five new A/D treatment systems, an additional 10,000 pounds of silt will be reduced from the non-point source pollutant stream each year. | | | | | | |
| | 1.9 Through land-reduction efforts with the retirement of five new A/D treatment systems, 5,000,000 pounds of silt will continue to be reduced from the non-point source pollutant stream each year. | | | | | | |

Management Plan



3.4 Implement 40 new, state-funded stream restoration and/or stormwater management projects annually for the next five years.

3.5 Address 500 new Dirt, Gravel, and Low Volume (DGLV) Road sites each

Appendix A: Tracking Table

| Goal | Objective | Fiscal Amounts Achieved | | | | |
|---|---|-------------------------|---------|---------|---------|---------|
| | | FY 2014 | FY 2015 | FY 2016 | FY 2017 | FY 2018 |
| Improve and protect the waters of the Commonwealth from non-point source pollution associated with Abandoned Mine Drainage and other legacy resource extraction activities. | 1.1 Provide for the operation and maintenance of all Pennsylvania-operated ADEM treatment systems each year for the next five years. | | | | | |
| | 1.2 Engage in land restoration projects resulting in the reclamation of 100 acres of abandoned mine lands (AML) each year for the next five years. | | | | | |
| | 1.3 Provide funding and other resources for the installation of five new ADEM treatment systems annually for the next 5 years. | | | | | |
| | 1.4 Accelerate TSPC-ADSR Quick Response projects each year for the next five years. | | | | | |
| | 1.5 Flag 50 oil and gas wells each year for the next five years. | | | | | |
| | 1.6 Through land restoration efforts with the installation of five new ADEM treatment systems, an additional 10,000 pounds of sediment will be reduced from the non-point source pollution stream each year. | | | | | |
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| | 1.10 Through land restoration efforts with the installation of five new ADEM treatment systems, an additional 10,000 pounds of sediment will be reduced from the non-point source pollution stream each year. | | | | | |

Integrated List

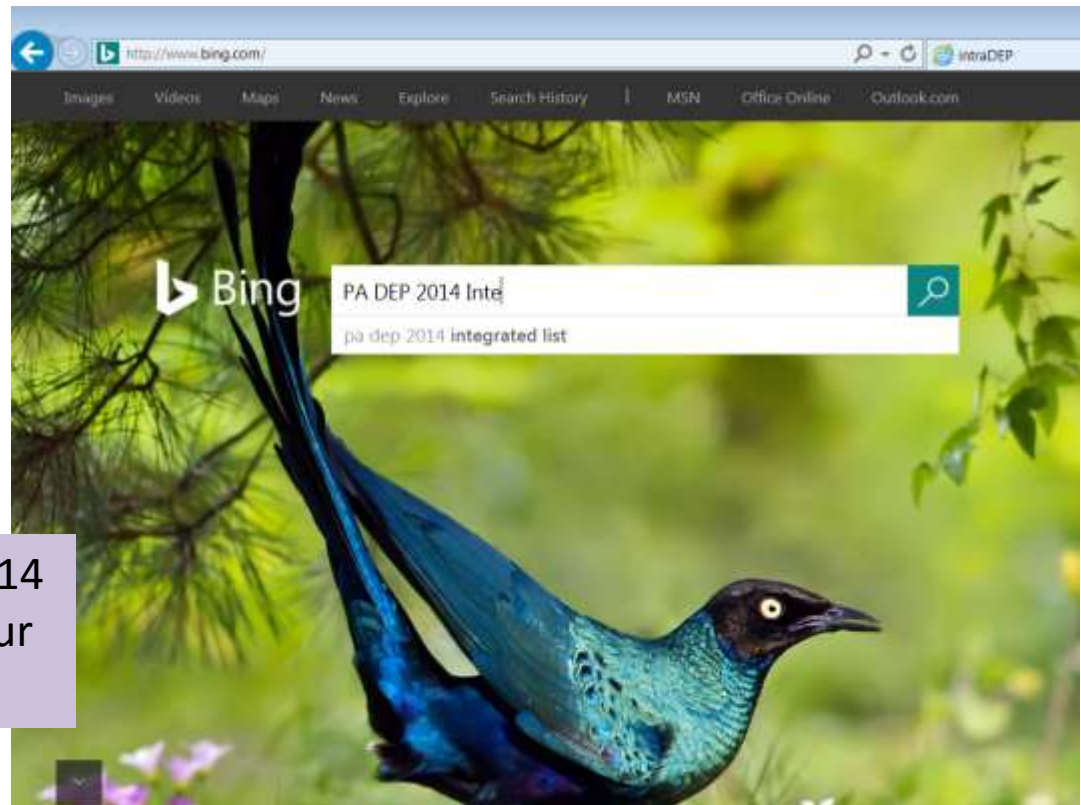
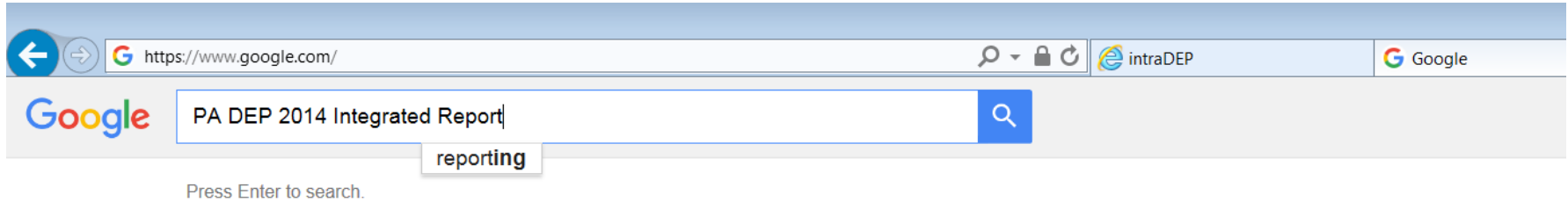
Concept

1. Reference the integrated list
 - Can be found as a document (Google “PA DEP 2014 Integrated List”)
 - Can be found as a map (eMapPA)

Application

- Applicable Grant Application sections:
 - Executive Summary
 - Work Plan
- State on which list the receiving waters are found
- State which designated uses are impaired
- State the listed sources of impairment.

Integrated List



If you Google (or Bing etc.) “PA DEP 2014 Integrated Report”, you should find your way to...

Integrated List

The screenshot displays the PA.GOV website interface. The top navigation bar includes links for CITIZENS, BUSINESSES, PUBLIC PARTICIPATION, and DATA AND TOOLS. A search bar is positioned in the center of the header. The main banner features a scenic image of a river with the Pennsylvania Department of Environmental Protection logo and the text "TOM WOLF, GOVERNOR | JOHN GUGLEY, SECRETARY". On the right side of the banner, there are links for SITE MAP, REGIONAL RESOURCES, and REPORT AN INCIDENT. Below the banner, a breadcrumb trail reads: DEP > Businesses > Water > Bureau of Clean Water > Water Quality Standards > Integrated Water Quality Report 2014. The main content area is titled "INTEGRATED WATER QUALITY REPORT - 2014" and includes the subtitle "2014 PENNSYLVANIA INTEGRATED WATER QUALITY MONITORING AND ASSESSMENT REPORT". To the right, a "RELATED INFORMATION" section contains links for FISH CONSUMPTION and CONTINUOUS INSTREAM MONITORING (CIM) REPORTS. The footer contains links for Contact Us, About, Newsroom, and a social media section with icons for Facebook, Twitter, and YouTube.

PA.GOV

CITIZENS BUSINESSES PUBLIC PARTICIPATION DATA AND TOOLS

Enter Search Term Here

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

TOM WOLF, GOVERNOR | JOHN GUGLEY, SECRETARY

SITE MAP
REGIONAL RESOURCES
REPORT AN INCIDENT

Facebook Twitter YouTube

DEP > Businesses > Water > Bureau of Clean Water > Water Quality Standards > Integrated Water Quality Report 2014

INTEGRATED WATER QUALITY REPORT - 2014

2014 PENNSYLVANIA INTEGRATED WATER QUALITY MONITORING AND ASSESSMENT REPORT

RELATED INFORMATION

FISH CONSUMPTION
CONTINUOUS INSTREAM MONITORING (CIM) REPORTS

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...this screen.

Integrated List

Scroll down till you see
the Integrated List:


Integrated List

 <http://www.dep.pa.gov/Business/Water/PointNonPointMgmt/WaterQuality/Pages/Integrated-Water-Quality-Rep>   

Scroll down till you see
the Integrated List:

| 2014 Pennsylvania Integrated Monitoring and Assessment Report Narrative (formerly 305(b) Report) Narrative Report (PDF) | |
|--|---|
| 2014 Integrated List of All Waters (formerly 303(d) Report) | |
| Category determinations are based on consideration of data and information consistent with the methods outlined in the Assessment Methodology | |
| List | Description |
| List 1: All Uses Attained | |
| Streams (PDF) | Attaining all designated uses |
| Lakes (PDF) | |
| List 2: At least One Use Attained | |
| Streams (PDF) | Attaining some designated uses and insufficient or no data available for remaining uses |
| Lakes (PDF) | |
| List 3: Unassessed | |
| Streams (PDF) | Insufficient data or no data to determine if designated uses are met |
| Lakes | |
| List 4: Impaired For One or More Designated Uses, Not Needing a TMDL | |
| 4a: | |
| Streams (PDF) | TMDL Has Been Completed |
| Lakes (PDF) | |

Integrated List

 <http://www.dep.pa.gov/Business/Water/PointNonPointMgmt/WaterQuality/Pages/Integrated-Water-Quality-Rep>   

Scroll down till you see the Integrated List:

Review each list looking for your waterbodies, impaired uses, and sources of impairment.

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Insider's tip: when searching the IL, CTRL + F is your friend. (aka: using "find" is a great way to save time).

Integrated List

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| Lakes (PDF) | |

List 2: At least C

[Streams \(PDF\)](#)
[Lakes \(PDF\)](#)

List 3: Unassessed

[Streams \(PDF\)](#)
Lakes

List 4: Impaired

4a:
[Streams \(PDF\)](#)
[Lakes \(PDF\)](#)

2014 Pennsylvania Integrated Water Quality Monitoring and Assessment Report - Streams, Category 5 Waterbodies, Pollutants Requiring a TMDL

Stream Name

HUC

Use Assessed (Assessment ID) - Miles
Source Cause

Date Listed TMDL Date

Buffalo Run

HUC: 05010009

Aquatic Life (6814) - 1.5 miles

On site Wastewater

Nutrients

2006

2019

Crouse Run

HUC: 05010009

Aquatic Life (10944) - 4.21 miles

Urban Runoff/Storm Sewers

Nutrients

2002

2015

Crouse Run Unnamed Of (ID:123972143)

HUC: 05010009

Aquatic Life (10946) - 0.89 miles

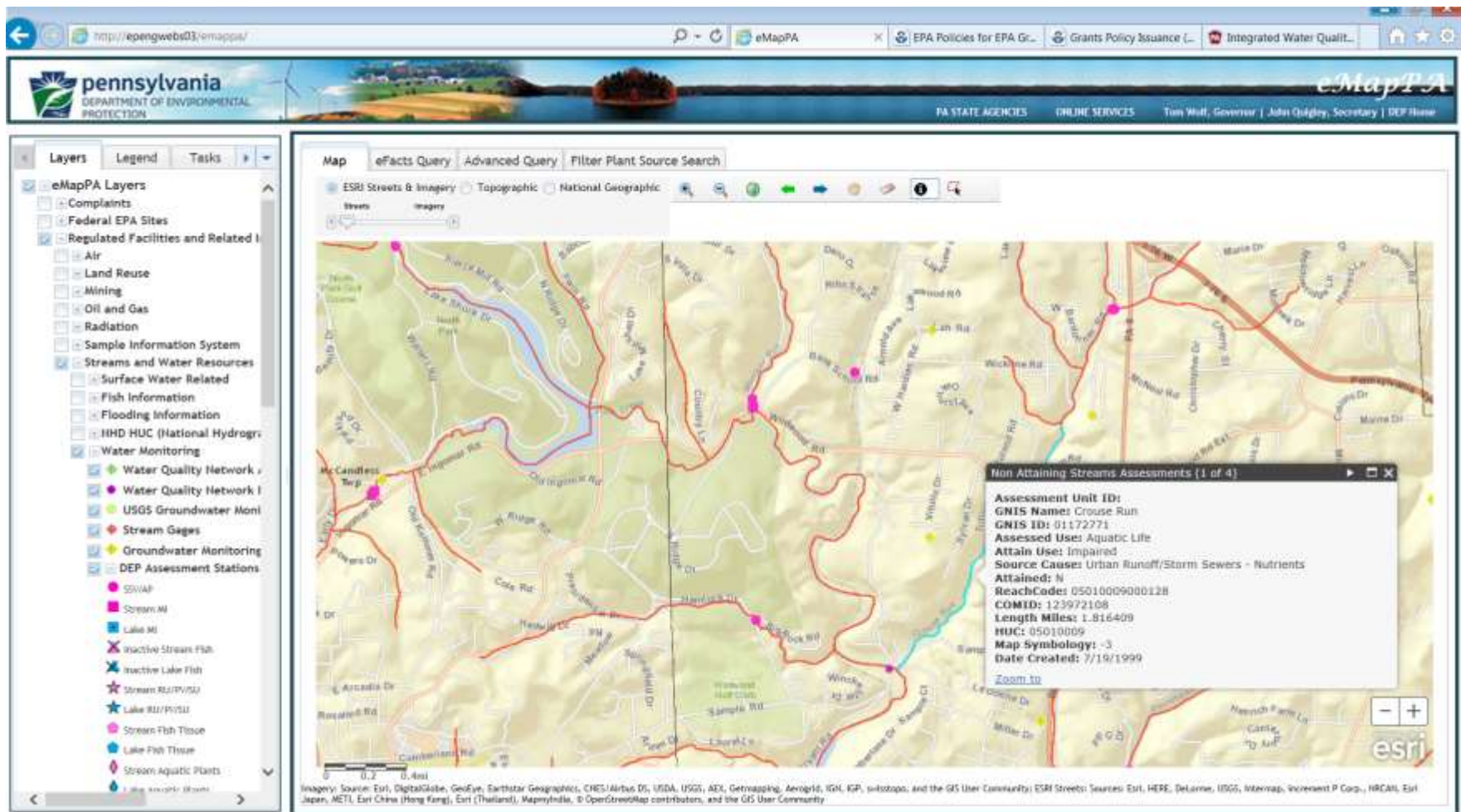
Urban Runoff/Storm Sewers

Nutrients

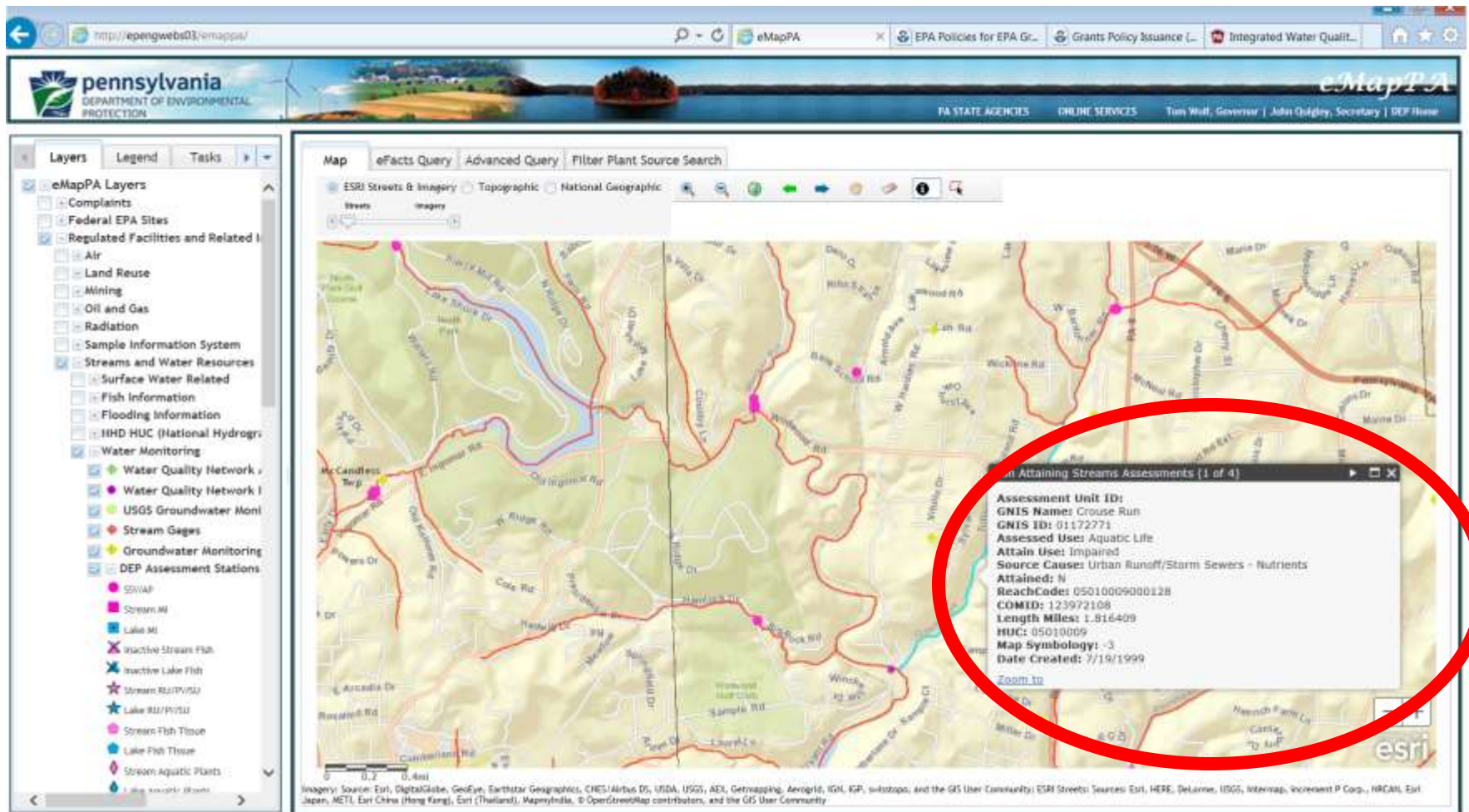
2002

2015

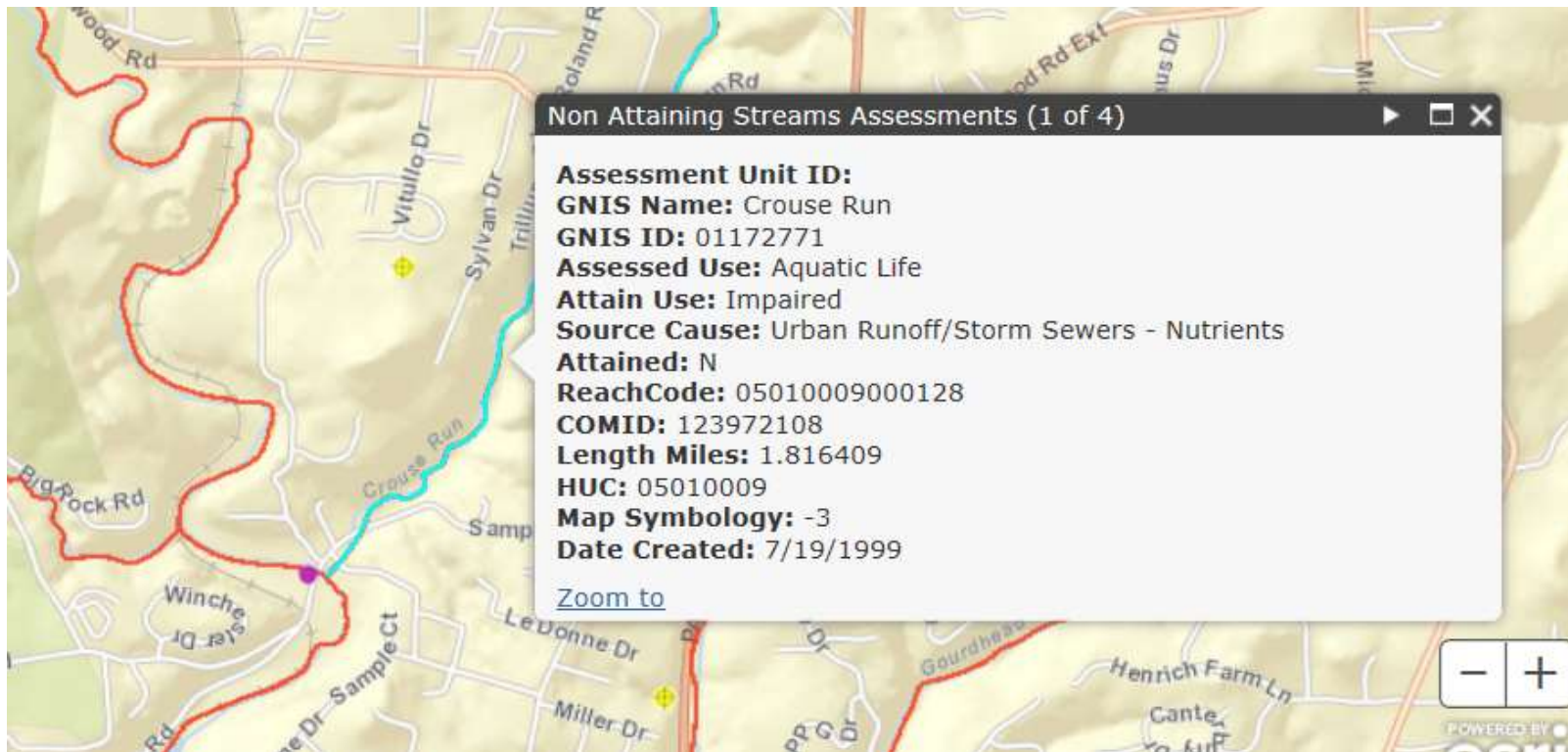
Integrated List



Integrated List

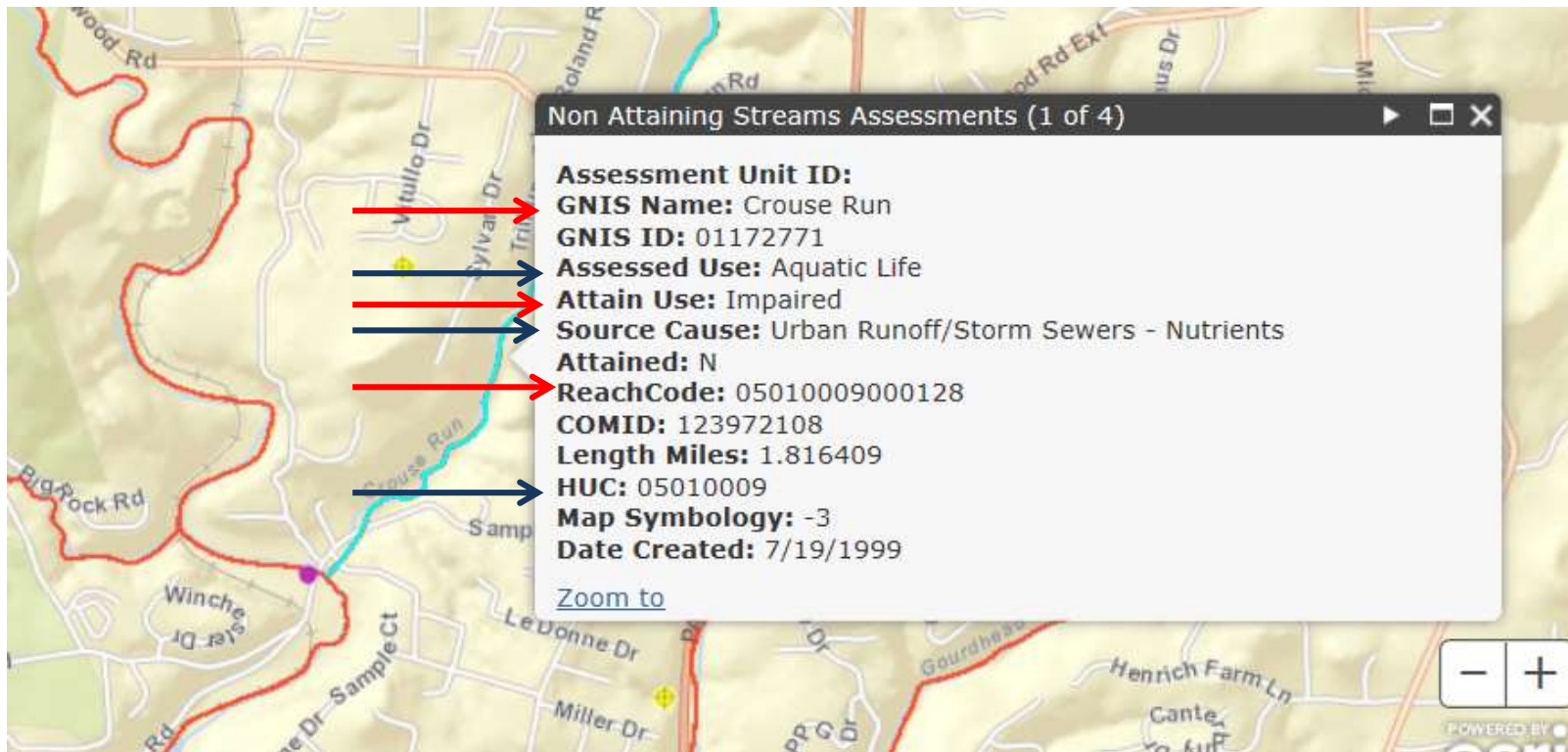


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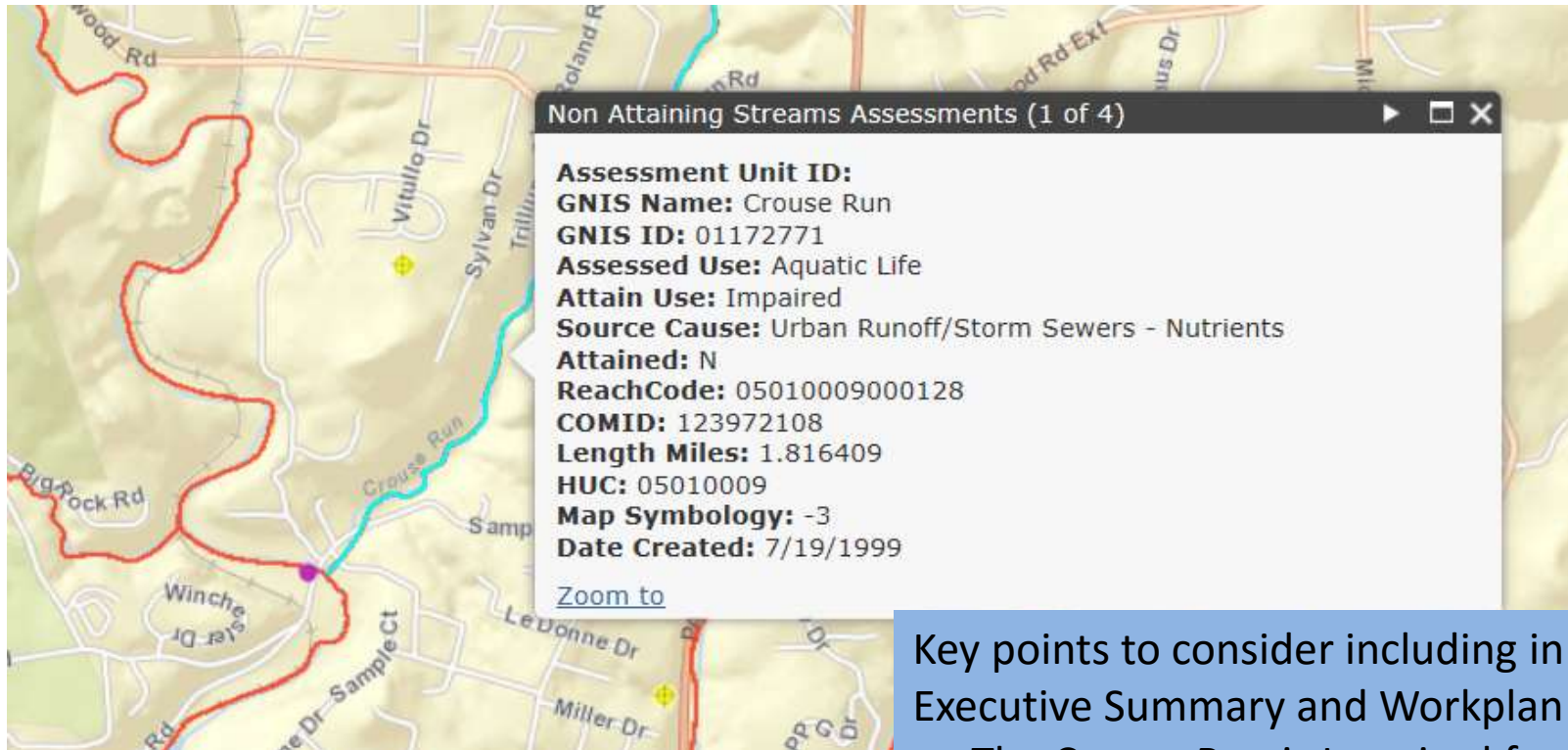
Use of eMap may make locating Integrated List information considerably easier.

Integrated List



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Integrated List

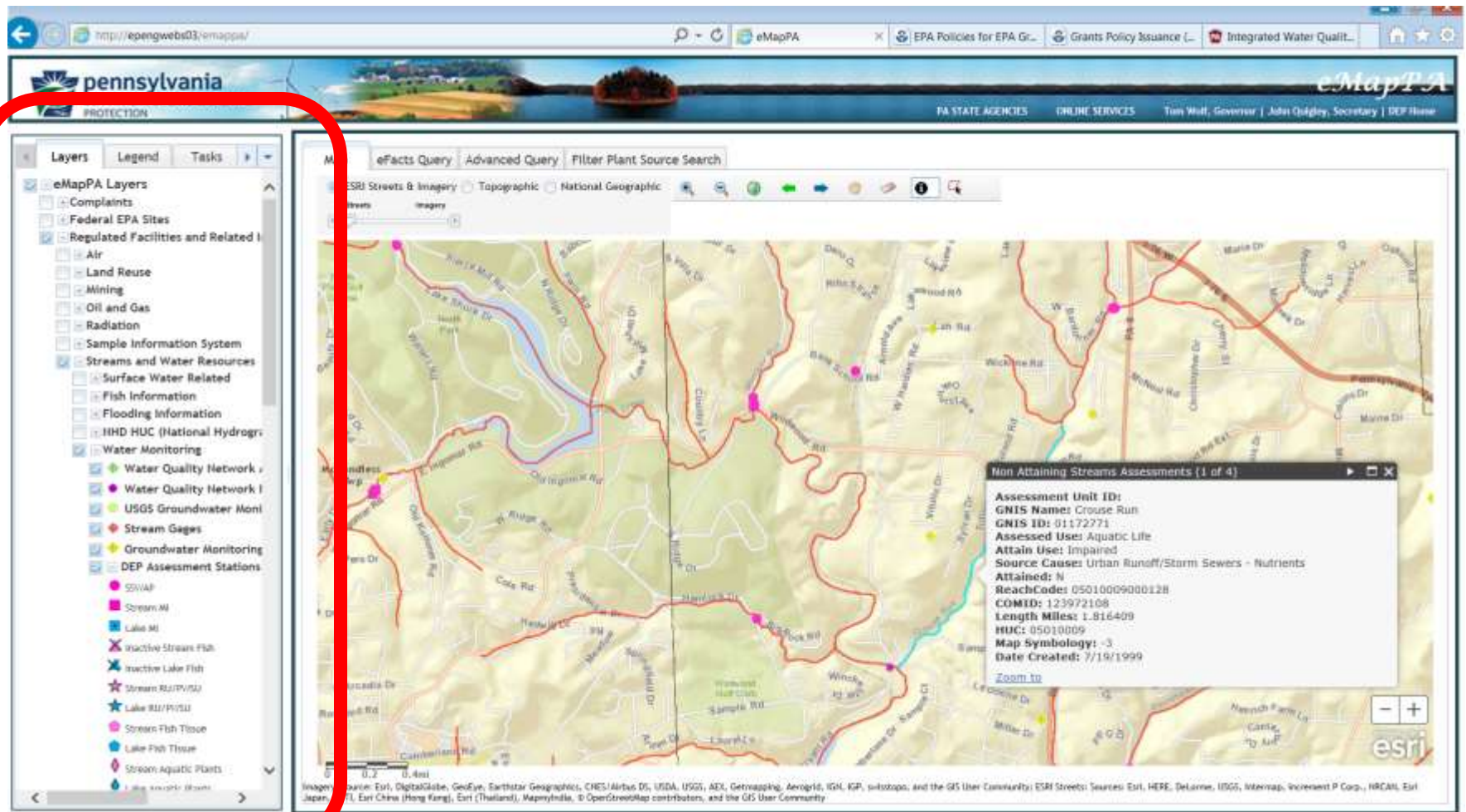


Use of eMap may make locating Integrated List information considerably easier (but may not have all the info you're looking for).

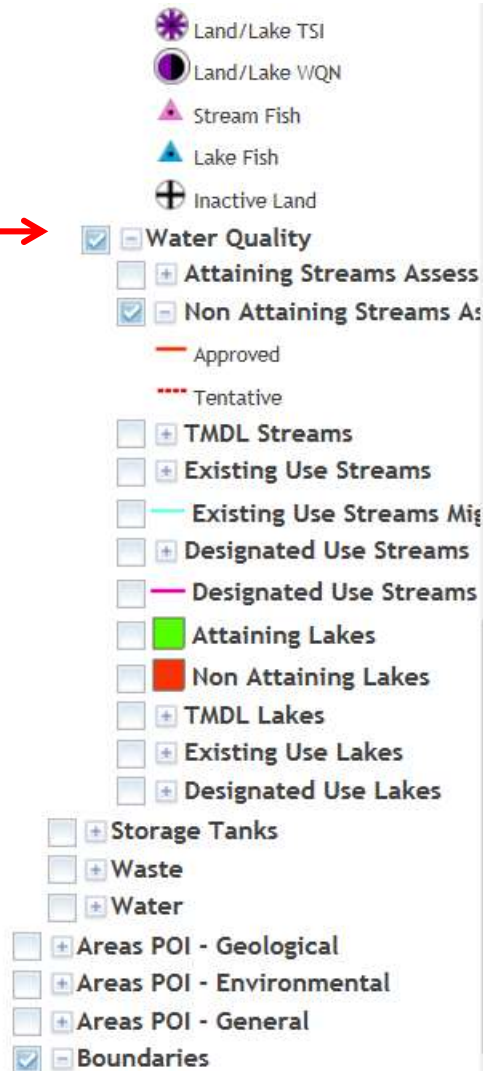
Key points to consider including in your Executive Summary and Workplan are:

- The Crouse Run is Impaired for the Aquatic Life use,
- by nutrients as a result of Urban Runoff/Storm sewers,
- and is found on Lists 4a & 5 of the IL.

Integrated List



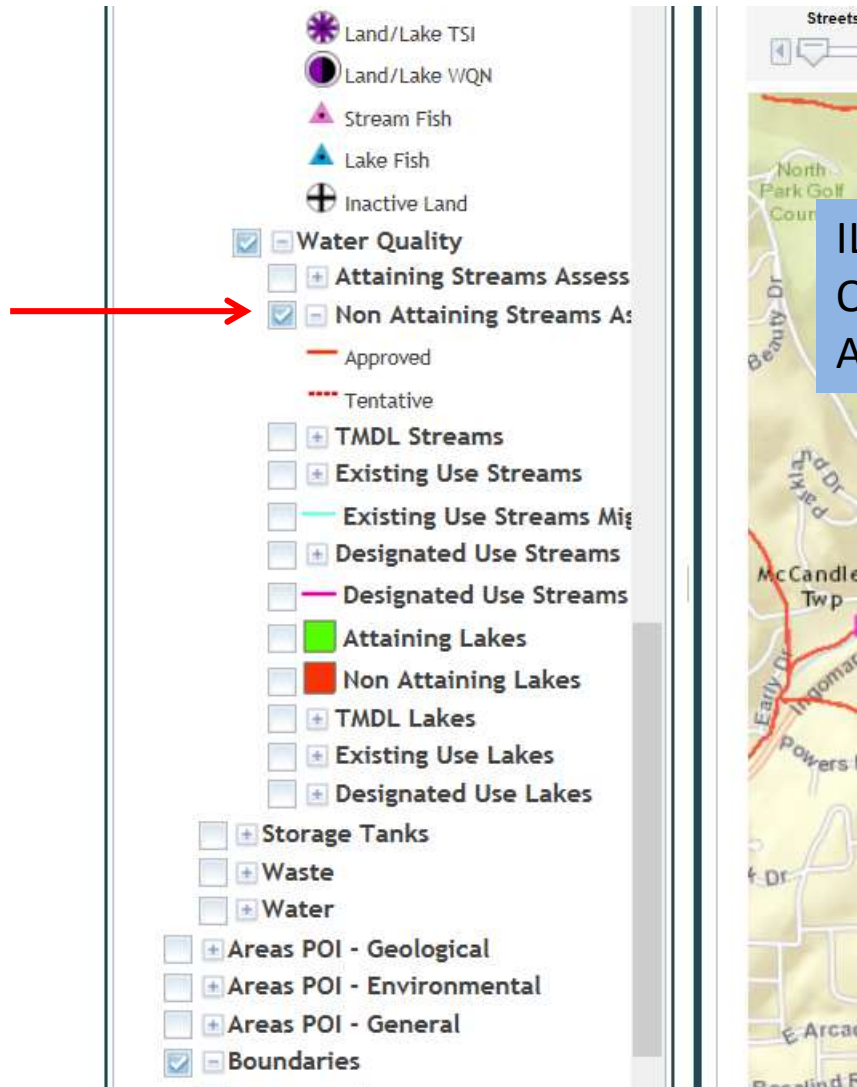
Integrated List



IL info can be found by activating the “Water Quality” set of layers, specifically the “Non Attaining Streams Assessments” layer.



Integrated List



IL info can be found by activating the “Water Quality” set of layers, specifically the “Non Attaining Streams Assessments” layer.

Partnering

Concept

1. Since we all benefit from healthy waters, many partners may be involved with a project.
2. Logical partners include:
 1. Local Governments
 2. Watershed Associations/NGOs
 3. State agencies (DCNR, FBC, PGC)
 4. Schools (ES, MS, HS, College/Univ.)
 5. Businesses
 6. Places of worship
 7. Individual citizens

Application

- Applicable Grant Application sections:
 - Executive Summary
 - Work Plan
- Clearly and succinctly state each partner and the role of each partner.
- Know that some partners offer land or funds, others may offer labor, technical resources etc.

Partnering

ALLEGHENY COUNTY | LIVE | WORK | EXPLORE | GOVERNMENT | NEWS AND EVENTS | ABOUT

PARKS

Type what you're looking for

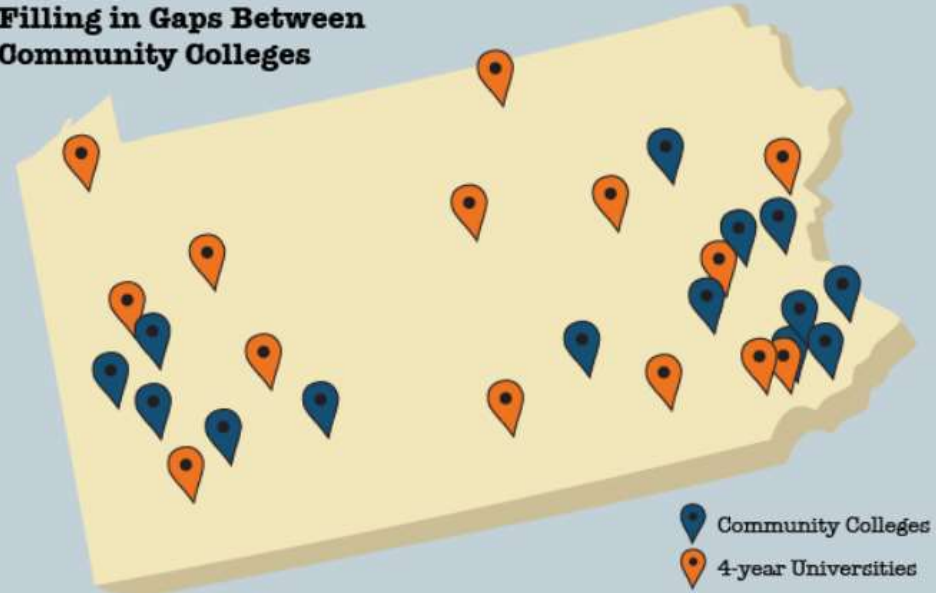


Government > Parks

9 Beautiful Parks. 12,000 Acres.



Pennsylvania's State Universities: Filling in Gaps Between Community Colleges



Source: Pennsylvania State System of Higher Education;
Pennsylvania Commission for Community Colleges

Community Colleges
4-year Universities

Designed by Lauren Rouppas

Partnering

Concept


1. **Different partners** may have **different goals**.
2. Schools may want hands-on learning, students may want work experience, DCNR and FBC may have unique program-specific objectives (as does DEP).
3. While we all want healthy waters, we may not all be working off the same document. (**ex: WIP/RCP**)

Application

- Applicable Grant Application sections:
 - Work Plan
- Clearly and succinctly state how the project will **benefit each unique partner** (if there is a clear benefit for each partner).

(Note: This applies more to agency and ed partners (DCNR, FBC, colleges etc. and may apply less to other partners).

Partnering



Pennsylvania Fish & Boat Commission

pennsylvania PA

PA STATE AGENCIES ONLINE SERVICES

Get Your Fishing License | Register/Title a Boat

Google Custom Search Search

HOME

Fish

Boat

Habitat/Non-game

Maps & Reports

About the PFBC

Careers

Commissioners

FAQs

Grants

Learning Center

Partners & Links

Permits & Forms

Pubs. & Products

Regs. & Laws

Right-to-Know

Habitat Improvement

FORMS

Lakes — Streams

Habitat is the place where a plant or animal is naturally found. Improving around waterways results in healthier, more diverse aquatic communities for those of us who enjoy Pennsylvania's water resources and their home. The Fish and Boat Commission works to improve habitat from assisting sportsmen groups and conservation on projects to improve lakes and streams, coordinating the removal of dams and other block movement and providing technical guidance on designing riparian buffers.

Lakes / Impoundments

Lake Habitat Management

- Lake Habitat Improvement Maps
- Our Habitat Activities Story map
- 2016 Field Schedule


COUNTY GUIDE

REGIONAL REPORTS

BIOLOGIST REPORTS

2015 Pennsylvania River of the Year

Conewango Creek



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Rivers Registry

Funded in part by grants from the Keystone Recreation, Park and Conservation Fund, the Rivers Registry is a component of the Community Conservation Partnerships Program. These rivers conservation plans have been approved for placement on the registry by DCNR because they meet or exceed the minimum standards in our Rivers Conservation Planning Program.

To view plans from the Pennsylvania Rivers Registry click on the individual plans from the list below.

Rivers Registry Map

for a more detailed look, please take a look at the interactive rivers registry map.



Synergism, locally.

Concept

1. In most cases, a proposed project isn't the first project in a WIP watershed.
2. *Not all projects/BMPs are 319 funded projects and BMPs.*
3. **Functional watershed scale** is, in most cases, between 2 mi² and 10 mi²

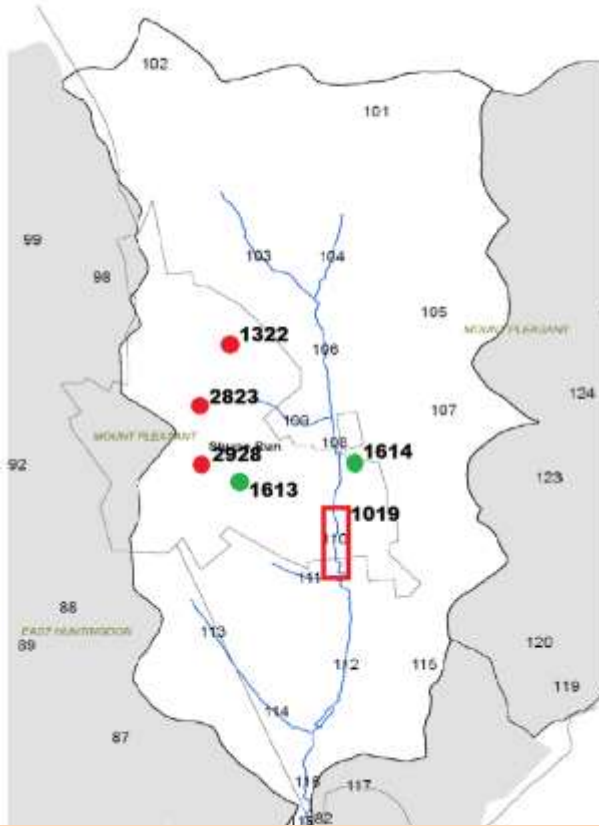
Synergism: *"interaction of [items, entities, or conditions] such that the total effect is greater than the sum of the individual effects."* –Merriam-Webster

Application

- Applicable Grant Application sections:
 - Work Plan
- Clearly and succinctly list and/or describe other work which has already been done in this watershed and **how the proposed project will compliment that earlier work.**

Synergism, locally.

Shupe Run Watershed



Including a map showing locations of completed work and proposed work is a great way to show how the proposed projects will compliment existing/completed projects.

GRANTS ISSUED IN SHUPE RUN:

2823: Mount Pleasant Boro Stormwater Retrofit Project (Design and Construction)

2928: Mount Pleasant Boro Stormwater Retrofit Ph II

1019: Shupe Run Streambank Restoration Ph II

1222: Mount Pleasant/Shupe Run Stormwater Retrofits (design)

1322: Green Infrastructure development in Mount Pleasant (design and construction)

1419: Mount Pleasant/Shupe Run Stormwater Retrofit Project (Construction)

1613: Mount Pleasant Plaza Storm Water Retrofit

1614: Mount Pleasant Shop N Save

Grant Funds and Results

| Grant Number | Grant Amount | BMPs/Project Description |
|----------------|--------------------|--|
| 2823 | \$72,327 | Raingardens in Muni and public parking areas |
| 2928 | \$475,250 | D&C for bioretention and infiltration BMPs (rain gardens) Frick Hospital and Boro building |
| 1019 | \$88,250 | Restore 1,000 of Shupe Run (Site #110 in WIP) |
| 1222 | \$60,000 | Design for BMPs in and around the MHP |
| 1322 | \$131,250 | 3 Tasks, Design Work (Rt 31, Shop n Save, and Kennedy Ave) |
| 1419 | \$545,399 | Polish Falcons parking lot and MHP |
| 1613 | | Porous Pavt, Water Quality Inlets, ... |
| 1614 | | Porous Pavt, Water Quality Inlets, ... |
| Running Total: | \$1,372,476 | |

Including a list of previous projects in the subwatersheds and/or brief descriptions of completed work is helpful.

GRTS may be a good site to gather this info.

Cost Effective and Low Maintenance

Concept

1. Relative to the BMP, pollutant source and possibly the location of the project.

Application

- Applicable Grant Application sections:
 - Work Plan
- Applicants can refer to previous work, previous quotes and other sources to make the case that the proposed BMPs are cost effective and low maintenance.
- Cost effective may be expressed in terms of \$/unit of pollution reduced and can include consideration of positive externalities.
- Maintenance burden can be described in O&M Plan.

Characteristics of a *Good Project*

- Connected to/with:
 - WIP
 - Management Plan
 - Integrated List
- Leverages partnerships
- Make wise use of grant funding today and in the future.

Characteristics of a Good Application

- A good application:
 - References the:
 - The **WIP**
 - The **Management Plan**
 - The **Integrated List**
 - Includes adequate:
 - **Maps**
 - **Photos**
 - **Details** (plans & specs)
 - **Load reductions**
- **Other information** that may be useful in understanding and rating the project.
 - Cost to construct/maintain
 - Benefits to citizens/other partners

Resources for Grant Applicants

- The WIP
- The Integrated List
- The NPS Management Plan (2014 update)
- On-line GIS resources (GIS for non-GIS techs).
 - eMapPA
 - Google earth
 - Acme mapper
- GRTS (which we didn't even begin to discuss)

Recommendations for a quality application:

- Be **succinct** and direct.
- Include modeled or estimated **pollutant load reductions**.
- Make liberal use of **maps, diagrams, and photos**.
- **Directly connect** the proposed project **to previous projects**.
- **Directly connect** the proposed project **to projects listed in the WIP** (and their level of urgency).
- **Directly connect** the proposed project **to the Integrated List** and listed sources of impairment.
- **Directly connect** the proposed project **to the Management Plan**.

Recommendations for a quality application (the “don’ts”)

- Avoid **hyperbole**.
- Avoid **repetition**.
- Don’t assume the reviewers are **familiar with the area**.
- Don’t omit **critical information** (land use, land ownership, BMP make/model, previous research and supporting info etc.).
- **Don’t forget** pollutant **load reductions**.



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