Primrose Creek
Bucks County
New Hope-Solebury PA
A little creek/watershed with BIG issues…
Little Primrose’s Big Issues

A quarry divides the Primrose into an upper and lower reach
  Dewatering the aquifer
  Formation of sinkholes
  Dry stream sections
    Dry wells
  Degraded water quality
    Habitat loss
  Algaecide dumping
    Invasive plants
Welcome to Lime Port, Bucks Co?
Figure 1. 2005 DVRPC Aerial Photography showing Primrose Creek Watershed in proximity to New Hope Crushed Stone quarry. Survey stations shown as red triangles, On-stream sinkhole shown as pink asterisk, channel head-cut shown as red line.
conductivity, temperature, and depth.

Show all data in the database as table or as CSV text
Get raw CSV text file

Latest readings:
At 2019-01-17 14:20:31 EST:
CTD Depth= 190.3mm, CTD Temp= 4.7 degreesC, CTD Conductivity= 434.7 uS/cm
Board Temp= 2.8 degreesC; Battery= 4.05 volts

Water Depth and Conductivity, last 48 hours

Temperature, last 48 hours
SL159 - Water Depth

Water Depth (in millimeters)

Highlight to zoom in, double-click to zoom out.
SL158 Turbidity/CTD Logger

This is data from logger SL158. The logger is equipped with a Decagon CTD which measures water conductivity, temperature, and depth.

Show all data in the database as table or as CSV text
Get raw CSV text file

Latest readings:
At 2019-04-12 10:40:46 EST:
CTD Depth= 0.7mm, CTD Temp= 19.2 degreesC, CTD Conductivity= 0 uS/cm
Board Temp= 24 degreesC; Battery= 4.11 volts

Water Depth and Conductivity, last 48 hours

Temperature, last 48 hours
SL158 Turbidity/CTD Logger

This is data from logger SL158. The logger is equipped with a Decagon CTD which measures water conductivity, temperature, and depth.

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Latest readings:

At 2019-04-14 06:30:47 EST:
CTD Depth = 280.3mm, CTD Temp = 15.5 degreesC, CTD Conductivity = 360.7 uS/cm
Board Temp = 12 degreesC; Battery = 4.06 volts
Primrose Creek Watershed Goals

Short Term

Environmental education collaboration with Stroud WRC
Stream bank buffer improvement
Awareness of septic dumping management and agricultural BMPs

Long Term

Quarry reclamation plans
Stream bed stabilization
Our Main Big Ideas  for our little community …

Citizen scientist student stewardship

Community education and awareness

These ideas give us “New Hope”  
( Our local watershed pun)
The Key Educational Outcome

Prepare the students with *transferable* environmental stewardship skills linked to their community.

“to do it on their own”
Pollution Tolerance Indexing

What is the relationship between?
Macro invertebrate PTI and water quality..
Water Quality Monitoring
PCWA