

# Pre-Mining Survey Map (PMSM) and Form

Presentation At:  
Training for the Kentucky General Coal Permits

Chris Hart, Permit Writer  
Division of Water



# Who Must Submit

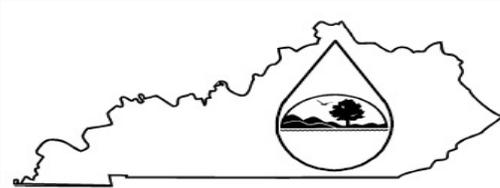
- KYGE4 – Eastern Kentucky
  - New and expanded active surface mining areas draining to an in-stream sediment control structure (for the purposes of this permit in-stream sediment control structures are those sediment control structures that are constructed within the natural drainage way of a water body or have a continuous discharge or have an average discharge duration of 96 hours or more)
  - New and expanded coal preparation plant
  - New and expanded underground mine



# PMSM Form

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## FORM PMSM



### KENTUCKY POLLUTION DISCHARGE ELIMINATION SYSTEM (KPDES)

### Pre-Mining Survey Map (PMSM) Form For In-stream Monitoring Permit Requirements

In-stream monitoring requirements are a means of determining compliance with the narrative water quality standard for specific conductance. These monitoring requirements include physical, chemical and biological data to be collected for each receiving stream impacted by the permitted activity. The permittee is required to conduct a pre-mining sampling event to establish the baseline conditions to which subsequent annual sampling events are compared to determine compliance. To ensure the data collected is complete, accurate, and representative of the receiving stream and is comparable to monitoring results obtained by the Kentucky Division of Water (KDOW) the permittee is required to develop and submit a Pre-Mining Survey Map for review and acceptance.

Physical/chemical samples are to be collected in accordance with the following Standard Operating Procedures (SOPs): (1) Sampling Surface Water Quality in Lotic Systems, (2) In situ Quality Measurements and Meter Calibration, (3) Sample Control and Management, and (4) Measuring Stream Discharge. These SOPs may be found at: <http://water.ky.gov/permitting/Pages/Mining.aspx>. Biological sampling shall be performed annually during the appropriate index period; i.e. Headwater – Feb 15th thru May 31st; Wadeable – May 1 thru Sept 30th. Biological samples shall be collected in accordance with: (1) Methods for Conducting Resource Extraction Individual Permit Intensive Surveys in Non-OSRW Streams of the Eastern Kentucky Coalfields; (2) Methods for Conducting Resource Extraction Individual Permit Intensive Surveys in Non-OSRW Streams of the Western Kentucky Coalfields. All biological activities shall be performed by a qualified biologist.

To assist the permittee in developing a Pre-Mining Survey Map and to allow for an expeditious review by DOW this form has been developed to ensure all necessary information has been included. In addition to this form the permittee shall attach copies of the following document:

A Pre-Mining Survey Map illustrating all existing and proposed outfalls, fills and instream monitoring point locations.

#### SECTION I – PERMIT INFORMATION

AI No	KPDES Permit No.	SMCRA Permit No.	DNR Actions
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#### SECTION II – PERMITTEE INFORMATION

Company Name	Contact Name
Mailing Address	Title
City	Telephone Number
State	E-mail Address
Zip Code	

#### SECTION III – INSTREAM MONITORING LOCATIONS INFORMATION

ID Number	Receiving Water Name	Latitude	Longitude	Outfalls Covered

At a minimum one in-stream monitoring point directly below the outfall along with one downstream monitoring point of the receiving stream located after the confluence but above any tributaries is required.

# PMSM Form

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## FORM PMSM

### SECTION IV – CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE

(Type or Print)

Telephone Number:

(Area Code and Number)

( ) -

SIGNATURE:

DATE:

### SECTION V – FORM PMSM PREPARER INFORMATION

Preparer Name:

Company Name

Mailing Address:

City, State, Zip Code:

Phone Number:

Work # ( ) -

e-mail Address:

This completed application form and attachments should be sent to: Surface Water Permits Branch, Division of Water, 200 Fair Oaks Lane, Frankfort, Kentucky 40601. Questions should be directed to: Surface Water Permits Branch, Operational Permits Section at (502) 564-3410.

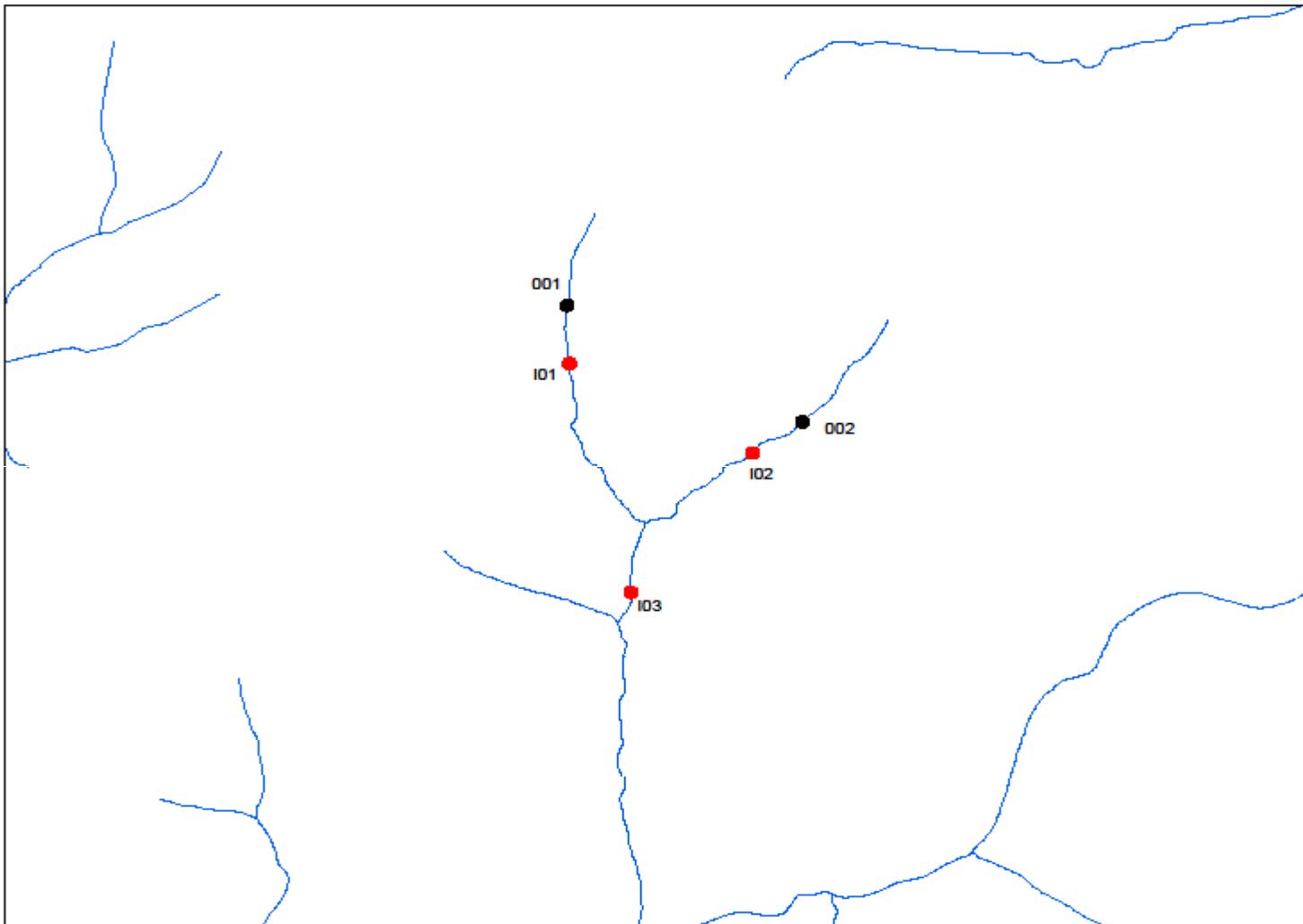


# In-stream Monitoring Points (IMP)

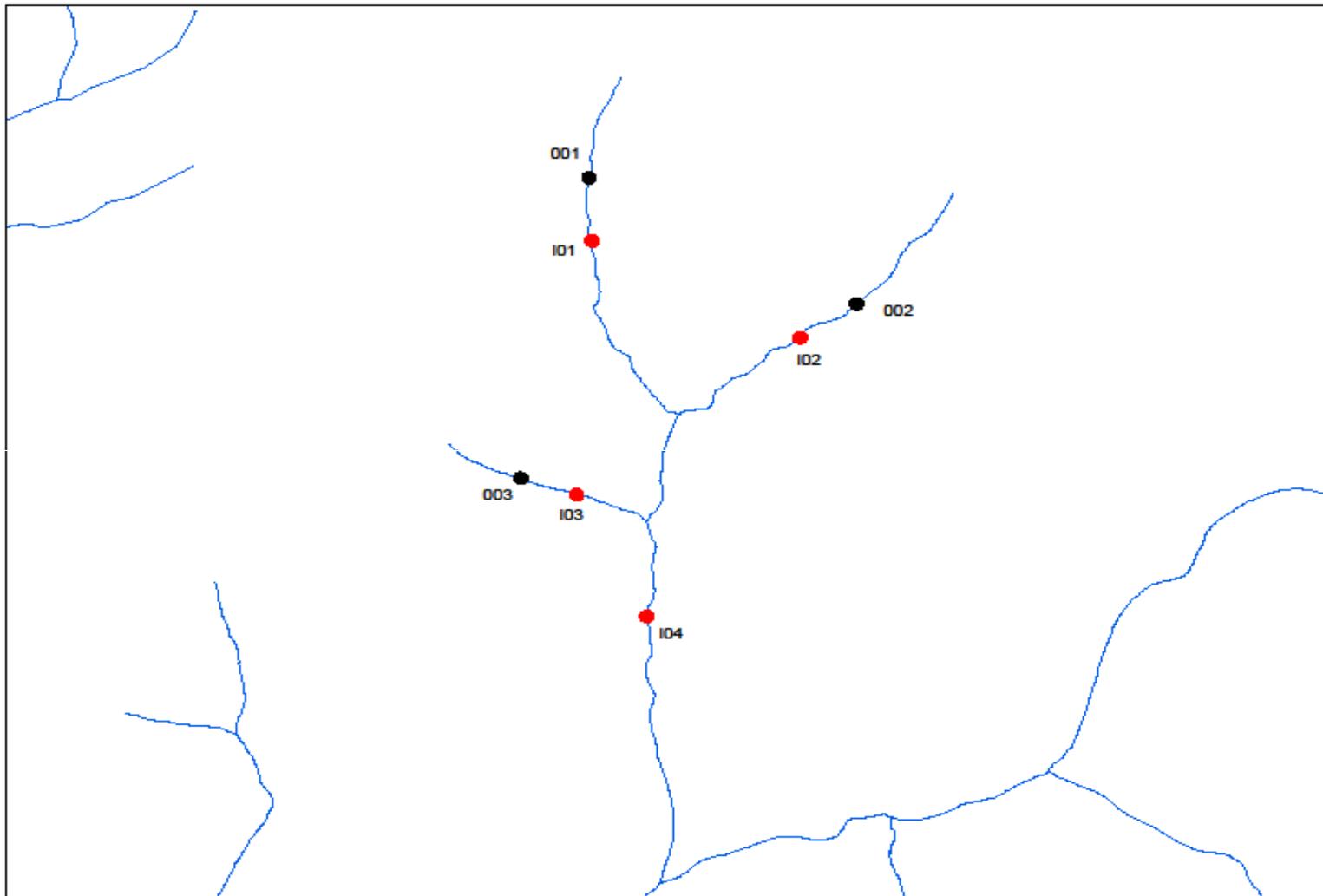
- Requirement
  - At a minimum, one in-stream monitoring point directly below the outfall along with one downstream monitoring point of the receiving stream located after the confluence but above any tributaries.
  - In-stream identification number: start with I01, I02, I03, etc.
  - Coordinates must be in decimal degrees



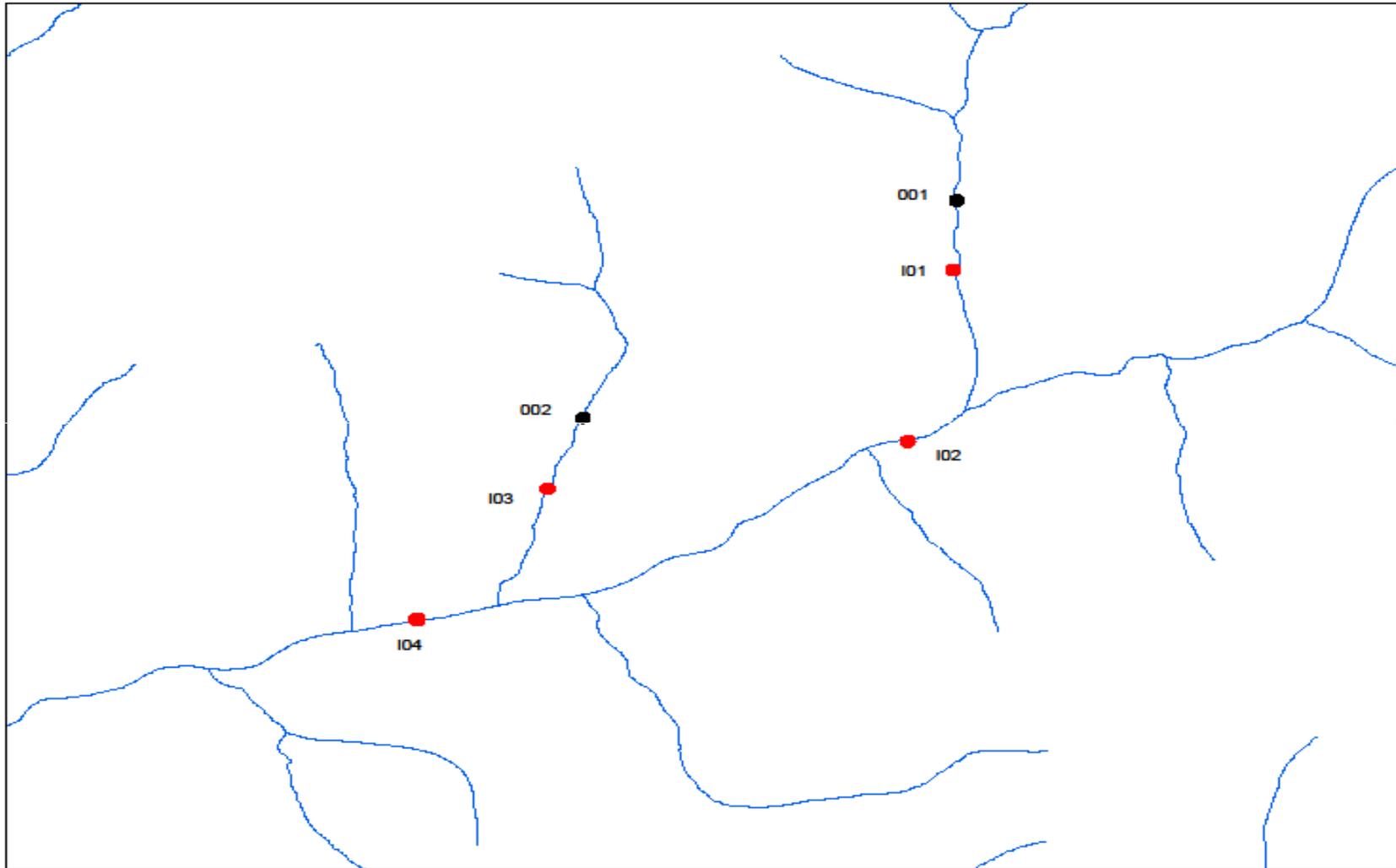
# IMP Sample #1



# IMP Sample #2



# IMP Sample #3



# Contact Information

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Division of Water

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