Nutrient Trading in Maryland Informational Briefing

MDA Senior Staff November 1, 2006

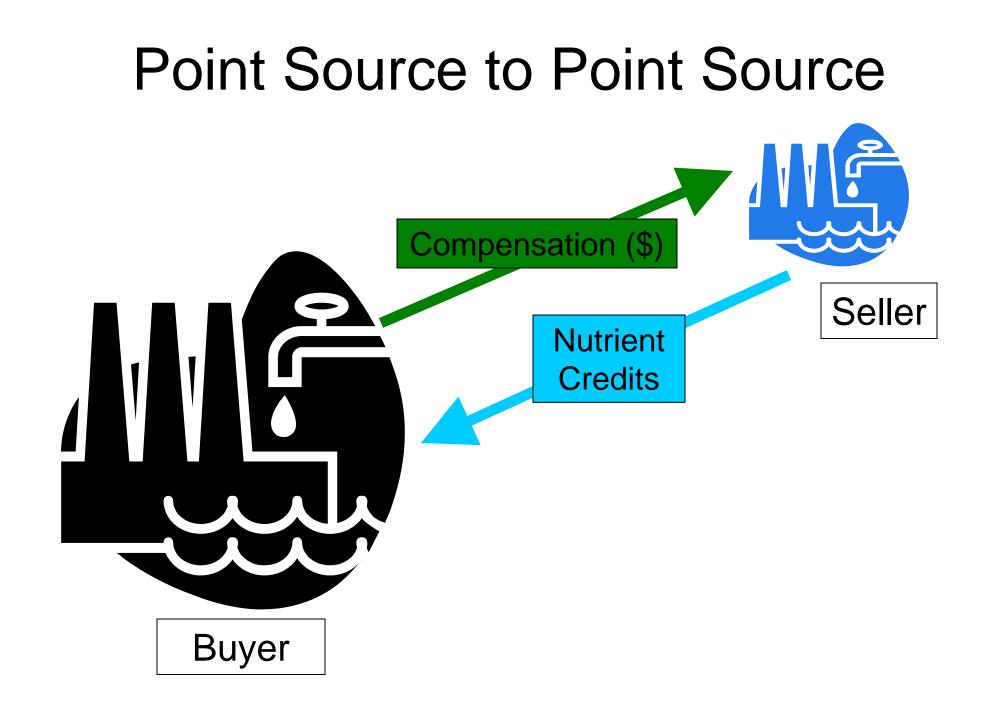
What is Nutrient Trading?

- Trading the transfer (buying and selling) of nutrient reduction credits
- Credits the amount of nutrients reduced below a given source's allowable discharge

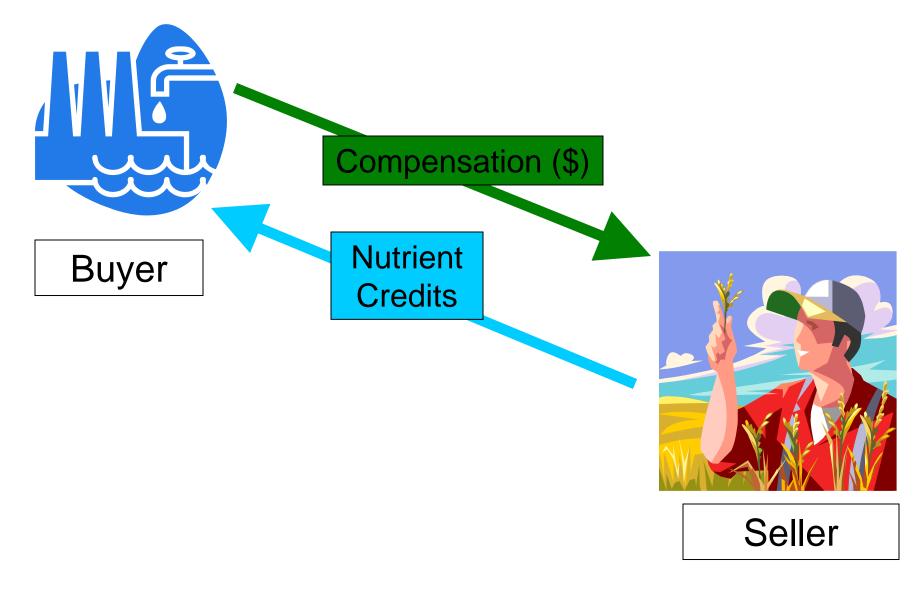
Why Trade?

 Establishes an alternative, <u>cost</u> <u>effective</u> approach to reaching water quality goals Time is of the essence.... The Trading Train is leaving the station!

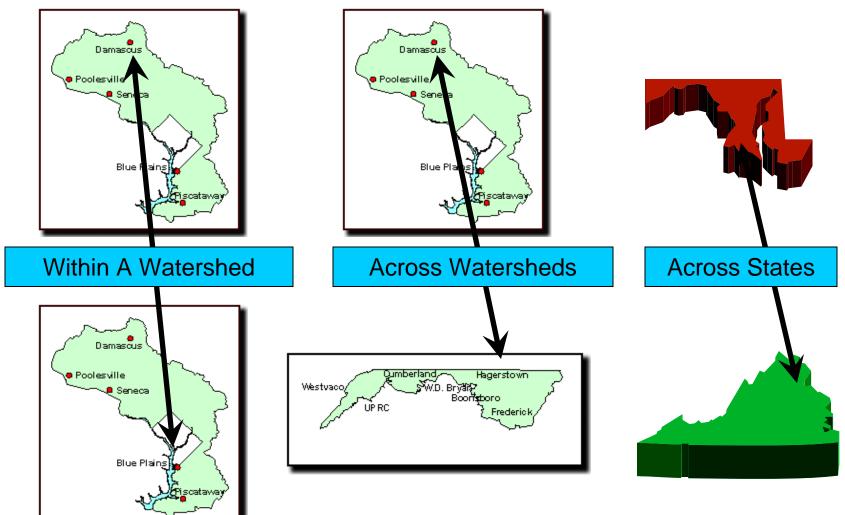
- Pennsylvania policy developed
- MDE draft Point source policy complete
- Private sector ag activity beginning
- Discussions of agricultural nutrient trading beginning in other places (DNR)
- If MDA doesn't develop the policy, someone will develop it for us.



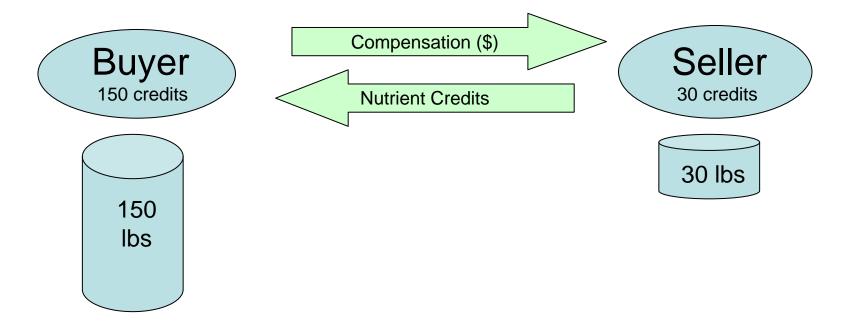
Point Source to Non-Point Source



Trading Occurs Along Various Geographic Boundaries



Market-like Nutrient Trading



Government

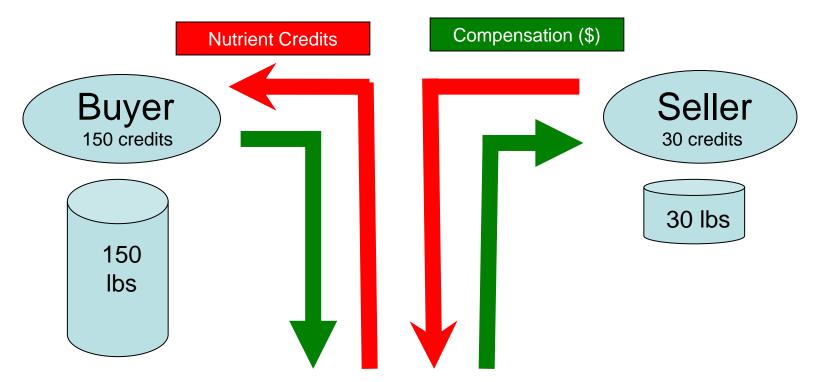
Facilitate Trade (standardize commodity-credits Address Third Party Effects (Caps and localized effects) Monitor and Enforce

Market-like Nutrient Trading

- <u>Pros</u>
 - Simple
 - Direct

- <u>Cons</u>
 - Less accountability
 - Results
 - Performance
 - Terms
 - Less consistency
 - More difficult to determine eligibility
 - Very difficult to manage statewide

Regulator-directed Trading



Government

Identify and approve acceptable nutrient controls Approve Trade (standardize commodity-credits) Reallocate nutrient control responsibility Monitor and Enforce

Regulator-directed Nutrient Trading

- Pros
 - More accountability
 - Performance
 - Terms
 - Efficiency
 - Fair, Equitable,
 Consistent approach
 - Centralized administration
 - More acceptable to general public and policy makers

<u>Cons</u> – More involved processes

Who are the players?

- Buyers
 - Large utilities (low performance)
 - Developers
 - NGOs (retiring credits)
- Sellers
 - Farmers, high performance utilities
- Brokers- facilitating trades
 - 3rd parties
- Aggregators- bundling practices from multiple owners
 - NGOs,
 - States
 - 3rd parties

Trading is not a new concept... Recent Initiatives

1996 USEPA-

Draft Framework for Watershed-Based Trading

1997 MDE – Concept Paper for a Nutrient Trading

<u>Policy</u>

2001 – WERF – <u>Project on Trading in Maryland</u>

2001 – CBP – *Fundamental Principles and Guidelines* June 2006 – MDE-

<u>Draft Policy on Point Source to Point Source Trading</u> Oct 2006 – NRCS &USEPA –

Water Quality Credit Trading Agreement

Maintaining Equity

- In 2002, Maryland Bay Cabinet agencies (MDA, MDE, DNR, MDP, UMD) said that trading could used to <u>maintain</u> the capped loading goals, but not to <u>achieve</u> the goals.
- E.g. –Each sector must do their respective part to meet nutrient reduction goals prior to being eligible to trade.

Trading Guidelines Policy decisions that lie ahead

- Determining <u>eligibility</u>
- Performing trade administration
- Ensuring <u>accountability</u>
- Measuring progress

MDA-Resource Conservation Developing a leadership role in agricultural nutrient trading

- 15.02 Program Planning and Development
 - Policy development
 - SSCC
 - Ag Nutrient Trading Oversight Committee
- 15.03 Resource Conservation Operations
 - Ag BMP implementation, validation and verification
 - SCD network
 - CBP coordination role
 - Tributary Strategies
 - BMP implementation reporting
- 15.04 Maryland Agricultural Water Quality Cost Share Program
 - BMP implementation
 - Contract management (recordation, payment, penalty management)
 - On site performance monitoring

Roles and Responsibilities MDA

- Determine program direction
- Establish Oversight Committee
- Establish program guidance
- Develop trade eligibility (BMPs & traders)
- Track credits
- Monitor and enforce compliance
- Evaluate performance

Roles and Responsibilities Farmers

- Complete, update, Soil Conservation Water Quality Plans
- Provide and sell nutrient credits for BMPs providing environmental benefits
- Enter into contractual agreements with MDA
- Implement, manage and maintain practices
- Allow for monitoring and verification

Roles and Responsibilities SCDs

- Complete and update Soil Conservation Water Quality Plans with farmers
- Promote and educate all potential participants and the general public
- Aggregate practices; compile nutrient credits
- Enroll farmers
- Facilitate contracts
- Monitor implementation and maintenance

Next steps....

- Maryland Bay Cabinet:
 - Reaffirm 2002 policy on using trading to maintain the cap.
 - Establish statewide coordinating committee to define the State's role in Nutrient Trading Oversight and Management
- MDA ORC to initiate their role in agricultural nutrient reduction trading oversight and management
- Develop draft roles, responsibilities, and structure document
- Pursue resource opportunities to develop trading program guidelines and banking system
- Assemble Maryland Agricultural Nutrient Trading Coordination Committee
- Refine roles, responsibilities, structure using stakeholder input

Questions????