



Complying with the WPDES Nonmetallic Mining Permit in Wisconsin May 11, 2017

1. Introduction (Split)
 - a. Introduce speakers
 - b. Overview of nonmetallic mining in Wisconsin
 - i. Industrial Sand
 - ii. Aggregate
 - c. Types of operations, locations, general background, operations challenges, “community”, water management basics
 - d. Permitting Overview:
 - i. General WPDES permit vs. individual permits
 - ii. Revised Nonmetallic Mining WPDES General Permits Effective August 1, 2016
 1. Nonmetallic Mining Operations For Non-Industrial Sand and Other Aggregates
 2. Nonmetallic Mining Operations For Industrial Sand Mining and Processing
2. WDNR Regulatory Perspective (Roberta Walls, WDNR)
 - a. WPDES permit clarifications, compliance schedules, and other FAQ’s
 - b. Status of Ground Water Study schedule and focus
3. What’s new in water management requirements and permits? (Foth)
 - a. Emphasis on storm water/wastewater discharge effects on groundwater and surface water.
 - b. WDNR Groundwater study – evaluating the potential release of metals to groundwater from sandstone.
 - c. Background geology and hydrology influence wastewater and stormwater quality.
 - d. Water management structures, process water ponds, hydrology - review and possible modifications.
 - e. Overview of analytical data collection requirements.
 - f. Schedule of compliance
 - g. Water treatment additive and discharge flow recordkeeping
4. Hydrology (GZA)
 - a. Water management: where does your facility drainage go?
 - b. Receiving waters and groundwater infiltration
 - c. Wastewater/storm water evaluation
5. Understanding Your Site Local Conditions (Foth)
 - a. Geology – are you in an area where local geology affects the water quality characteristics of groundwater and surface and storm water?
 - b. General water quality and category of your facility’s receiving waters, annual review of receiving waters – Impaired water bodies, TMDL, OWR/EWR
 - c. Ground water and surface water geochemistry evaluation process
 - d. Local community issues
6. Permit compliance – (GZA)
 - a. Documentation and reporting
7. Maintaining a General Permit (Foth)
 - a. Evaluate general facility, water management, site geology and hydrology
 - b. Identify opportunities for process modifications and improvements
 - c. Trade off studies to identify approach for cost effective compliance
8. Q&A (Split)