

Idaho Water Reuse Conference

May 19, 20, 2010

Potential Reuse Rule Changes

- DEQ currently undertaking negotiated rule making for Reuse Rules
- See DEQ website for information on changes and schedule

Class A vs. Class B

- Both:
 - 2.2 Total Coliform
 - Ground Water rule applies
 - Oxidized, coagulated, clarified, filtered
 - Turbidity requirements
 - End of pipe limits
 - Treatment operator required

Class A vs. Class B

- Class A:
 - 5 log inactivation of virus
 - Zero buffer distance for landscape irrigation
 - Unlined ponds allowed – GW rule applies
 - Distribution system operator not required
 - Treatment redundancy required
 - Typically more expensive, but required if doing unlined pond or irrigating up to houses

Class A vs. Class B

- Class B:
 - Chlorine residual required
 - Distribution system operator required
 - Buffer distances apply
 - Typically less expensive than Class A due to less redundancy and no requirement for virus inactivation
 - Golf courses, parks, playgrounds...

Class C

- 23 Total Coliform
- Oxidized
- Agronomic rate
- Buffer distance per guidance
- Contact only non-edible portion of raw food crops

Class D

- 230 Total Coliform
- Oxidized
- Agronomic rate
- Buffer distance per guidance
- Irrigate fodder, seed or processed food crops
- No grazing

Class E

- Primary effluent quality
- Agronomic rate
- Buffer distance per guidance
- Forested sites
- No grazing
- Animals not fed harvested vegetation within 4 weeks of application

Land Application of Industrial Wastewater

- Agronomic rates
- Site specific buffers
- Nuisance/odor controls may apply
- Ground Water rule applies
- Guidance rules?

DEQ Perspective on “How to do it”

- Read the Rules - <http://adm.idaho.gov/adminrules/rules/idapa58/0117.pdf>
- Read Chapter one & buffer distances in the Guidance - http://www.deq.idaho.gov/water/permits_forms/permittin/g/guidance.cfm
- Determine (with DEQ and Consultant) what is best for your project
- Follow the Rules and Guidance

DEQ Perspective on “How to do it”

- Meet with DEQ and Consultant
- Submit complete application and Preliminary Engineering Report including groundwater impact analysis as necessary
- Submit Engineering Plans and Specs

Options for Groundwater Recharge

- Class A – Unlined “Percolation” Ponds or Zero Discharge Wetlands
 - Groundwater Impact Analysis determines nitrogen limits
- Rapid Infiltration Basins
 - Load and rest cycles
 - TSS < 100 mg/L (30 day average)
 - Total Nitrogen < 20 mg/L (30 day average) unless NP study requires less
 - Ground Water Rule also applies