

Biofuels Releases

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**Petroleum Remediation Program
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Minnesota
Pollution
Control
Agency

Presentation Outline

- Biodiesel
- Ethanol-blended fuels
- Guidance Document 1-06
- Who to contact

Biodiesel

- MN requires 2% added to all diesel (B2)
- All blends up to B100 are Petrofund eligible
- No additional investigation requirements in place
 - Low solubility
 - No analytical methods to quantify
 - No human health standards

Ethanol-Blended Fuels

- E10 (10% ethanol) – current state mandate
 - No special PRP investigation requirements
- E20 – to take affect in 2013
- E85 (range of 70 to 85% ethanol)
- E95 (range of 95 to 98% ethanol)
 - Denatured or fuel-grade, transported

High Ethanol-Blended Fuels

- Guidance Document 1-06 *Ethanol-Blended Fuel Releases*
 - Introduction
 - Site applicability
 - Investigation requirements
 - Policy development
 - Who to contact

Introduction

- No drinking water standard
- Ethanol degradation can produce high concentrations of methane
- Ethanol is completely miscible in water and can present surface water problems
- Delayed natural attenuation of petroleum
- Larger ground water plumes
- Remobilize existing, stable contamination

Site Applicability

- Confirmed releases ethanol-blended fuels containing more than 10% ethanol
 - E20, E85, E95
- Releases at sites that store high ethanol-blended fuels

Investigation Requirements

- Contact us immediately after Duty Officer
- Site-specific conditions will dictate what is required
- Additional sampling parameters
 - Ethanol, methane, natural attenuation
- Potential for long-term monitoring (RI vs. LSI)

Policy Development

- Petroleum Remediation and Emergency Response programs are working together to evaluate future policy needs
- Ethanol pilot project
 - Field sites (E95, E85, E10) – What do we do and how do we do it?
 - Laboratory column studies – At what percent do changes occur?
 - Lab certification
 - Coordinating with outside partners

Who to Contact

Petroleum Remediation Program

Tom Higgins and Adam Sekely

Emergency Response Program

Mark Toso or site responder

Large Facility Remediation Program

Mark Toso

In Summary ...

- Biodiesel
- Ethanol-blended fuels
- Guidance Document 1-06
- Who to contact

- Be aware of what's out there