September 2013 Flood and the Oil and Gas Industry

Colorado SWANA Rocky Mountain Chapter

October 4, 2013
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AGENDA
- FLOOD EVENT
- PHASE I RESPONSE
- PHASE II RESPONSE

Flood Event Information

2013, EVANS, CO
2011, EVANS, CO
PHASE I RESPONSE

- Preparation
- Operations and Logistics
- Interagency Communications
- Outreach

Preparation
- Planning
  - Reconnaissance - field inspectors 9-12 to 9-15
  - GIS and database assessments
    - Map buffers of major drainages
    - Database identified wells within buffer
- Operational plan developed
- Command center set up in Denver office
- Communications with oil and gas operators
Operations and Logistics
- Field inspections
  - 2 person teams
    - Inspector, engineer or environmental specialist
    - 9-17-2013: six 2 person teams
    - 9-23-2013: nine 2 person teams
  - 75% sites inspected by 9-26-2013
  - Some areas remain inaccessible

Operations
- Remote Data
  - 3 helicopter surveys
  - EPA aerial photography
  - Landsat imagery, USGS spatial analysis
- Operator communications
  - Data submittals
    - Well status reporting
    - Spill release reporting – NRC, Form 19
  - Form 42 Notice of Start Up
  - Operators shut in well starting 9-11-2013
Logistics

- Interagency
  - FEMA OGCC in field office
  - EPA coordination
  - Local Governments
  - CDPHE
    - Oil and gas liaison
    - Air Pollution Control Division
    - Water Quality
    - Public Health
    - Solid and Hazardous waste

Logistics

- Outreach
  - Local governmental contacts
  - Web tools
    - Public information gathering tool
    - Flood information page
  - Daily media briefings
  - Tours for news reporters

Moving forward

PHASE II
Phase II
- Preliminary Data
- Additional Assessments
- Oilfield Orphan Tank and Drum Program

Preliminary Data (10-02-2013)
- 15 notable releases spills of crude oil:
  - 1,027 Barrels or 43,134 gallons
- 13 produced water releases:
  - 430 barrels or 18600 gallons
- 16 locations with evidence of minor releases

Preliminary Data (10-02-2013)
- 57 locations with some evidence of minor release
- 1000 wells and tank batteries inspected
- Some remain inaccessible
- CDPHE Sampling
  - 34 sample locations on major rivers
  - No VOCs (high e coli)

Additional Assessments
- Follow up inspections
  - Spills
  - Major Equipment damage
  - Site construction activities
  - Start up operations
  - Engineering, environmental, field
- Inaccessible sites – ongoing
Notice to Operators

- Reporting
- Detailed start up procedures
  - Inspections
  - Integrity testing
  - Modification of equipment
- Data analysis

Safety Alert

- Damaged Oil Field Equipment and Tanks
  - 9-30-2013
  - Tanks/equipment: flammable materials, pressurized, unstable
  - To Report
    - Contact OGCC (3030) 894-2100
    - Email notification system on COGCC website
    - OGCC will inspect

Oilfield Tank Identification
Drums

- Unlikely to be many oilfield drums
- Contact Local Office Emergency Management
- Contact manufacturer if identifiable

Information

http://floods.state.co.us/