

# The Benefits of a Routine Inspection Program

How a Local Program Works  
to Achieve and Maintain  
Compliance at Solid Waste  
Disposal Facilities

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# Introduction

- History of Tri-County's solid waste program
- Overview of Tri-County's current solid waste program
- Benefits of routine inspection program
- Other program activities

# **History of Tri-County's Solid Waste Program**

# History

- Various agreements with Adams County to conduct construction oversight in late 1980's to early 1990's
  - Hwy 36 Hazardous Waste Landfill
  - Conservation Services, Inc.
- Multiple staff involved with solid waste issues

- In 1999 a landfill was annexed from the county into the local municipality
  - City Staff lacked expertise in solid waste issues
  - 1<sup>st</sup> agreement with City in June 2000 for oversight services
- Funding allowed for creation of solid waste position

# **Overview of Tri-County's Current Solid Waste Program**

# Oversight Services

- Review significant changes to Engineering Design & Operations Plan (EDOP) for governing body
- Consultation services upon request
- Waste characterization & disposal plan oversight
- Operational oversight
- Construction oversight
- Provide Semi-Annual Reports to governing body

# Operational Oversight Program

- Two Types of inspections
  - Full-Scope Inspection (4/year)
  - Limited-Scope Inspection (8/year)



## ■ Full-Scope Inspections

- Review operating records for facility at site
  - » Groundwater monitoring records
  - » Landfill gas monitoring records
- Site Inspection
  - » Provisions for stormwater runoff, windblown refuse, bird mitigation procedures, etc.
  - » Observe waste placement at working face
  - » Employee training
  - » Random load inspections
- Exit briefing with facility personnel
- Contact governing body to discuss findings

# Limited Scope Inspections

## ■ Operational Procedures

- Litter control
- Dust control
- Bird hazard control
- Observe routine sampling procedures
- Respond to complaints



# Construction Oversight

We all have the same goal.....



**PRODUCT QUALITY**

- Provide field observations during construction
  - Ensure conformance with the approved Construction Quality Assurance Plan (CQAP)
  - Construction is in accordance with approved drawings and specs
- Independent “3<sup>rd</sup> party” opinion

# Construction Observations



# Potential Non-Conformance Observations

- TCHD visually identified area of clay liner that appeared inconsistent with surrounding materials



- On-site CQA tech left site to deliver samples to lab while contractor was still placing clay liner





- On-site CQA tech did not observe trial seams on geomembrane as required in CQAP

- Improper storage of geomembrane



# **Benefits of Routine Inspection Program**

# Benefits

- Allows us to speak confidently about facility compliance
  - Colorado Department of Public Health & Environment
  - Governing Body
  - Public Meetings
- Creates a working relationship
- Proactive approach to issues
- Provide expertise to the governing body

- Early Identification of potential problems
  - Correct before costly repairs are required
  - Can “fix” mistakes on the spot
  - Extra set of eyes
- Shorten review time of Construction Quality Assurance Engineer's (CQAE) Construction Observation Report

# **TCHD Acknowledgement As Quoted by CDPHE**

“Based on the information in this document, and on information contained in the approval letter from Tri-County Health Department dated October 30, 2003, it appears that all appropriate documentation has been provided to ensure that construction of the new cell was performed in accordance with the approved Construction Quality Assurance & Specification Plan (CQASP).”

# Other Program Activities



# Other Program Activities

## ■ Other Active Facilities

- We use list of Active Solid Waste Facilities available from CDPHE
- Facilities in TCHD Jurisdiction
  - » 11 Solid Waste Facilities (Municipal Solid Waste & Construction/Demolition)
  - » 10 Transfer Stations

# Methane Investigation



# In Summary

- History of Tri-County's solid waste program
- Overview of Tri-County's current solid waste program
- Benefits of a routine inspection program
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# Questions?

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