



Colorado Department
of Public Health
and Environment

OPERATION AND MAINTENANCE INSPECTION

Conducted by
Colorado Department of Public Health & Environment
February 16, 2012

Rocky Flats Site
EPA I.D. No. CO7890010526

Background

The purpose of this inspection was to observe the methods and procedures for sampling groundwater wells at the Rocky Flats Site. Inspections are required by RCRA inspection national core program requirements for Land Disposal Facilities, which the Colorado Department of Public Health and Environment has agreed to implement in a CDPHE/EPA RCRA Hazardous Waste Program Memorandum of Agreement (September 11, 2000). Groundwater sampling is conducted at Rocky Flats according to the general monitoring requirements in Attachment 2 of the *Rocky Flats Legacy Management Agreement* and the specific sampling criteria in the *Rocky Flats Site Operations Guide*.

During this inspection, sampling was observed at Well 70693, an upgradient RCRA well for the Present Landfill. Carl Spreng was the inspector for the Colorado Department of Public Health and Environment; John Boylan of S.M. Stoller was site representative; Heidi Frasure and Michelle Hanson of JGMS, Inc. were the samplers; Scott Surovchak observed as DOE-LM site manager. The weather was clear and sunny with an air temperature about 35° F and a slight to moderate breeze.

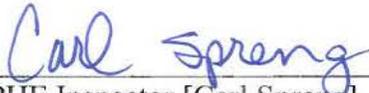
Well No. 70693 (RCRA well)

- Monitoring/sampling began at about 12:30 PM using a dedicated bladder pump and tubing.
- Observed water samples being collected for laboratory analyses of VOCs and metals. Volatile organic samples were kept at 4°C; metals samples were filtered using a 0.45 micron filter and preserved with nitric acid.
- The following field parameters were measured and recorded:
 - Water level (feet)
 - Water temperature (°C)
 - Total alkalinity (mg/L CaCO₃)
 - Turbidity (NTU)
 - Specific conductivity (µmhos/cm)
 - pH (s.u.)

- The field parameters were checked every 3 minutes and the well was sampled after field parameters stabilized. Well #70693 is designated as a Category 1, i.e., having a stable water level.
- Purge water is collected and disposed of at one of the Site's ground water treatment systems designed to treat the well-specific contaminants of concern.

Summary of Findings

All field measurement and sample handling procedures were conducted in accordance with approved monitoring requirements in the *Rocky Flats Legacy Management Agreement*, and with the quality assurance and quality control requirements in the *Legacy Management CERCLA Sites Quality Assurance Project Plan* and in current EPA guidance.



CDPHE Inspector [Carl Spreng]

Date: February 16, 2012