

### 2.3 MAJOR CONCERNS

The 2013 Health and Safety goals include completion of corrective actions on time. Stoller exceeded the 80 percent target in January but did not reach the target in February and March 2013. Senior managers continue to focus on corrective action completion.

### 3.0 ENVIRONMENTAL COMPLIANCE

LMS Environmental Compliance (EC) deliverables and regulatory reports were completed on or ahead of schedule, including National Environmental Policy Act (NEPA) documents. In addition, the quarterly regulatory review report of new and proposed regulations was submitted, and monthly National Pollutant Discharge Elimination System (NPDES) discharge monitoring reports were submitted on or ahead of schedule. Project/Activity Evaluations and Job Safety Analysis (JSA) reviews were conducted routinely and in a timely fashion to support project work.

#### 3.1 KEY ACCOMPLISHMENTS

- Reports delivered:
  - Quarterly Regulatory Review Report.
  - 2012 Emergency Planning and Community Right to Know Act Tier II Hazardous Chemical Inventory Report for the Tuba City site.
  - 2012 Water Use Report for DOE Monticello water right no. 09-2347.
  - Rocky Flats Quarterly Report of Site Surveillance and Maintenance Activities.
  - Rocky Flats Surface Water Configuration Adaptive Management Plan Annual Report Calendar Year 2012.
  - 2012 Rocky Flats Annual Wetland Mitigation Monitoring Report for wetland areas disturbed during cleanup and closure and post closure projects.
  - Grand Junction, Colorado, Site Emergency Planning and Community Right-to-Know Act report.
  - The 2012 Annual Report on Migratory Birds was prepared on behalf of DOE, who provided it to the Council for the Conservation of Migratory Birds.
  - The 2012 Annual NEPA Planning Summary was provided to LM ahead of schedule for this task order milestone.
  - Management assessment report MA-13-03, Acid Ordering and Receipt, Tuba City, Arizona, Disposal Site.
  - The 2012 Questionnaire on Federal Archeology Program Activities was provided ahead of schedule for this task order milestone.

- NEPA support provided for:
  - Initial draft of NEPA Manual, A Handbook of NEPA Processes, was completed on schedule to meet a Rating Plan 11 milestone. The Handbook provides a comprehensive explanation of how LM and the LMS contractor meet LM's and the Council of Environmental Quality's requirements related to NEPA.
  - Real Property team meetings and completing NEPA review on seven Requests for Realty Service forms.
  - An amended checklist for additional environmental effects considerations at the Grand Junction site.
  - A checklist for well-related activities at the Pinellas site.
  - A Determination of NEPA Adequacy was prepared for installation of 17 groundwater monitoring wells on the Old Rifle site under the Integrated Field Research Challenge program.
  - A Determination of NEPA Adequacy was prepared for each of 4 sites in the process of transitioning: Gas Hills East, Gas Hills North, Split Rock, and Bear Creek.
  - A Determination of NEPA Adequacy was prepared for a prescribed burn at the Weldon Spring Site.
  - A Determination of NEPA Adequacy was prepared for the power upgrade at the Morgantown Office.
- Miscellaneous EC activities/support:
  - EC staff attended McCoy's 2-day Resource Conservation and Recovery Act refresher training.
  - EC staff attended a ½-day workshop that provided an overview of Colorado's hazardous waste regulations.
  - Status report for water rights owned by DOE in the Monticello, Utah, area.
  - Conducted hazardous material evaluations for Buildings 46 and 12A at the Grand Junction, site to ensure that asbestos, lead, mercury, Freon, and other potentially hazardous materials are removed and managed in accordance with applicable regulations prior to construction and demolition activities.
  - Modification to Rocky Flats Legacy Management Agreement (RFLMA) Attachment 2, Legacy Management Requirements, approved by RFLMA regulators to incorporate changes to surface water standards and changes to surface water configuration from the dam breach project completed in 2012.
  - Conducted NPDES storm water inspections and completed annual inspection report (milestone) at the Weldon Spring site.
  - Presented a paper at the Waste Management Conference (“Visible, Endurable, Enforceable Institutional Controls: Weldon Spring Site—A 10-Year Journey”).

- Provided a presentation and written review of the Mound Development Corporation’s General Construction Permit showing potential compliance issues with the Clean Water Act from storm water discharged from DOE property. Photographic documentation, calculations, and a review of the Mound Reuse document were also provided. All of the information was given to LM and EM as hard copy and in electronic format.
- Provided the Bluewater, New Mexico, Disposal Site artesian well drilling project with quick well permit changes, additional permit applications, and timely well abandonment reports by working directly with the New Mexico Office of the State Engineer to ensure transparency through early notifications of necessary changes and clear communication of activities; encouraged regulators to visit the site.
- Assisted with a draft position paper for the Highland site located in Wyoming to develop a regulatory argument for not accepting the mining pit lake within the long-term care boundary for the Highland disposal site.
- Revised the online Adobe Connect training course EC400 “Managing Universal Wastes at LM Sites.”
- Completed quarterly radon and gamma air monitoring at the Grand Junction disposal site.

Progress against targets established for significant environmental aspects is presented in Table 1

*Table 1. Significant Environmental Aspect Targets*

Aspect	Target	Performance
1. Land Use	Perform institutional controls surveillances and site inspections at 20 sites.	Inspections were performed at Falls City, Texas; Fernald, Ohio; Gnome-Coach, New Mexico; Grand Junction, Colorado; Green River, Utah; Maxey Flats, Kentucky; and Rocky Flats, Colorado.
2. Releases to the Environment	Continue to treat and monitor groundwater at Bluewater, Fernald, Monticello, Mound, Pinellas, Rocky Flats, Shiprock, Tuba City, and Weldon Spring.  NOTE: Targets for Bluewater, Pinellas and Weldon are to monitor, so no volumes are reported as treated.	Gallons of groundwater treated during the reporting period: <ul style="list-style-type: none"> <li>• 275,289 at Fernald</li> <li>• 3,233,351 at Tuba City</li> <li>• 1,200,000 at Monticello</li> <li>• 4,623,821 at Mound</li> <li>• 430,371 at Rocky Flats</li> <li>• 3,732,000 at Shiprock</li> </ul> At the Bluewater, New Mexico Site contamination has been detected offsite. Continuing to work with State of New Mexico to expand monitoring network and collect more data.
3. Resource Consumption, Use, and Storage	Update Universal Waste Training for the LMS employee training system.	Complete.
4. Waste Generation and Minimization	Promote recycling and waste diversion through an event or activity.  Complete draft “Guidance on Solid Waste and Construction Debris Diversion Strategies”.	Considering waste minimization options that might be possible for an upcoming event or activity. Coordinating with event planners.  In progress.

### 3.2 90-DAY LOOK AHEAD

- Assist in the annual review of general JSAs.
- Complete Rocky Flats Surface Water Configuration Adaptive Management Plan (AMP) biennial review in cooperation with stakeholders and issue revised AMP, due May 15, 2013.
- Support development of Rocky Flats Annual Report of Site Surveillance and Maintenance Activities for 2012, due April 30, 2013.
- Provide NEPA and cultural resource support related to installation of a groundwater monitoring well at the Central Nevada Test Area.
- Review and revise as necessary a JSA related to Class III Cultural Resource Inventories.
- Initiate review of Environmental Aspect Procedure.
- Revise training course HM 400, Hazardous Material Transportation to include “Materials of Trade” and identify the target audience.
- Develop and finalize “Guidance on Solid Waste and Construction Debris Diversion Strategies.”
- Provide Notices of Intent and Construction Well reports to the State and obtain well permits for 17 wells at the Old Rifle site.

## 4.0 ENVIRONMENTAL MANAGEMENT SYSTEM

The nine Environmental Management System (EMS) core programs continue to evolve as EMS teams promote awareness of the EMS principles throughout LM and move aggressively toward meeting goals identified within the programs.

### 4.1 KEY ACCOMPLISHMENTS

- LMS participated in the annual EMS internal audit of the joint LM/LMS program. The assessment evaluated three parts of the EMS: the Water Conservation program; Environmental Aspects, Objectives, and Targets; and the Management Review process. The three processes examined in this assessment are well-defined and meet the regulatory requirements mandated for each process and the EMS. The application of the Plan-Do-Check-Act cycle to these processes is also apparent. This assessment resulted in 4 commendations, 2 findings, and 10 observations (positive and negative).
- New 262-kilowatt photovoltaic solar grid installation at Tuba City completed and on-line.
- At the Rocky Flats site new solar panels were installed on existing footings and additional batteries were added to increase the power available so that the Mound Site Plume Treatment System (MSPTS) air stripper could operate 24 hours a day with battery reserves to permit operation for up to 3 days without solar recharge. The upgraded system produces approximately 3.4 kW.
- Solar power is required for operation of the pump and instrumentation associated with the East Trenches Plume Treatment System (ETPTS) air stripper at the Rocky Flats site. An innovative design/build proposal for a modular solar photovoltaic system to power the air stripper was selected and installed using a conex which allows the solar system to be moved

Table 2. Sustainability Team Targets and Initiatives

Team	Targets/Initiatives	Performance
Energy Efficiency & Scope 1 and 2 Greenhouse Gases Reduction	Increase energy efficiency at Fernald Preserve.	<ul style="list-style-type: none"> <li>On track to meet.</li> </ul>
Renewable Energy	Meet renewable energy goal of 7.5 percent through onsite generation at LM sites.	<ul style="list-style-type: none"> <li>On track to meet.</li> <li>New 262-kilowatt photovoltaic solar grid installation at Tuba City completed and on-line.</li> <li>Additional solar panels and batteries were installed on MSPTS air stripper at Rocky Flats, increasing power available to 3.4 kW.</li> </ul>
Water Conservation	Implement two water efficiency improvements: (1) elimination of multiple water fixtures at the Weldon Spring site due to demolition of Administration Building; (2) install WaterSense aerators on two faucets located at the Converted Advanced Wastewater Treatment (CAWWT) building at the Fernald site.	<ul style="list-style-type: none"> <li>On track to meet.</li> </ul>
Sustainable Acquisition	Advance sustainable acquisition by striving for 95 percent of new contract actions, including task/release and blanket orders, but excluding all credit card purchases, for products and services to be environmentally preferable in accordance with <i>Executive Order 13514, Federal Leadership in Environmental, Energy, and Economic Performance</i> (subject to certain qualifications and limitations).	<ul style="list-style-type: none"> <li>On track to meet goals for the year.</li> <li>Met the goals for the first and second quarters.</li> </ul>
Waste Minimization & Pollution Prevention & Scope 3 Greenhouse Gas Reduction	Achieve 50 percent waste diversion for two waste streams: construction and demolition debris, and nonhazardous solid waste.  Initiative: Support the continued success of an LM-wide 13 percent reduction in the generation of Scope 3 greenhouse gas emissions.	<ul style="list-style-type: none"> <li>On track to meet.</li> <li>On track to meet.</li> </ul>
Vehicle and Fuel Use	Increase the ratio of alternative fuel use to conventional fuel use by 25 percent compared to the FY 2010 values.	<ul style="list-style-type: none"> <li>Target met with a 114 percent increase.</li> </ul>
Sustainable Buildings	Develop an occupant training outline that can be filled in on a site-specific basis and as necessary to create an occupant training manual.	<ul style="list-style-type: none"> <li>On track to meet.</li> <li>2<sup>nd</sup> draft sent out for review and comments. Review audience expanded to include several Facility Managers.</li> </ul>
Electronic Stewardship	Configure all LM data centers with separate power-metering capability.	<ul style="list-style-type: none"> <li>On track to meet. All sites except Weldon Spring have been configured at no additional charge by using in-place uninterruptible power supplies configured to perform separate metering.</li> </ul>
Land Stewardship	Complete grazing management proposal for the Monticello, Utah, Disposal Site with emphasis on habitat improvement, cover performance enhancement, and land reuse acreage.	<ul style="list-style-type: none"> <li>On track to meet.</li> </ul>