

Environmental Restoration Project



ER Site No. 77: Oil Surface Impoundment (South of TA-IV)

ADS: 1309

Operable Unit: Tijeras Arroyo

Site History	1
Constituents of Concern.....	2
Current Hazards	2
Current Status of Work	2
Future Work Planned	2
Waste Volume Estimated/Generated	2

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Site History

ER Site 77 is a lined storm-water impoundment regulated by the New Mexico Environmental Department (NMED) under "Surface Water Discharge Plan 530" (DP-530) pursuant to NM Water Quality Control Commission Section 3. DP-530 was submitted in 1988. ER Site 77 covers 0.17 acres and is located outside the southwestern corner of TA-IV. With research operation beginning in 1980, TA-IV is the newest SNL technical area and has always operated using modern environmental, safety, and health procedures and considerations.

The impoundment stores surface-water runoff from precipitation that collects in the sump of the TA-IV transformer-oil tank farm spill-containment area. The impoundment is lined with a synthetic membrane. The runoff is pumped to the impoundment by a manually-operated sump pump. If visible oil is present in the sump, a manually-operated skimmer is used to transfer the skimmed oil to an oil storage tank. The sump also receives non-routine water and transformer oil spills from floor trenches in Buildings 981 and 983. The capacity of the impoundment is 137,000 gallons.

In 1987, soil samples were taken before the impoundment was lined with the synthetic membrane. No PCBs or organic compounds were detected in the soil samples.

In 1994, eight soil samples were collected along the perimeter of the impoundment. The samples were analyzed for Polychlorinated Biphenyls (PCBs) and volatile organic compounds (VOCs). No PCBs or VOCs were detected in the soil samples.

The SNL/NM Water Quality Program conducts semi-annual inspections that include the measurement of the water level and the collection of water samples. To date, water has not

overflowed onto the ground surface. The water is analyzed for major ions, total dissolved solids, volatile organics, and extractable organics. Water quality results have not necessitated the pumping of the water for off-site disposal. NMED inspected the surface impoundment twice in 1995; no deficiencies were noted. The SNL/NM Water Quality Program submits a monitoring report to NMED on a semi-annual basis. The report includes water level measurements and analytical data.

Additional soil sampling will be performed after the impoundment is removed from service. The closure and soil sampling activities will be the responsibility of the user organization in TA-IV.

Because NMED regulates the impoundment under DP-530, the SNL/NM ER Project requested in October 1996 that the site not be regulated under the HSWA permit.

Constituents of Concern

No COCs are applicable to ER Site 77.

Current Hazards

No chemical or radioactive hazards are present at ER Site 77.

Current Status of Work

SNL/NM proposed ER Site 77 for No Further Action (NFA) in June 1995. SNL/NM submitted a response to Notice of Deficiency (NOD) comments to NMED in October 1996. ER Site 77 was accepted for NFA in October 1999. NMED approved the Class 3 Permit on July 21, 2000.

Future Work Planned

No future work is planned for ER Site 77.

Waste Volume Estimated/Generated

No waste was generated at ER Site 77.

Information for ER Site 77 was last updated Jun 27, 2001.