

result in a release is discussed in section 4.14, Human Health.

4.5.3 Impacts of No Action Alternative

The impacts to geology and soil due to the No Action Alternative are the same or less than those described for the Proposed Action.

4.5.4 Impacts of Pit Storage Relocation Alternative

The Pit Storage Relocation Alternative includes continued operation and maintenance activities at Pantex Plant and transportation and interim storage of pits from Pantex Plant to other DOE and/or Department of Defense facilities. Relocating the pits would not impact the geology and soils at Pantex Plant. There would be no impacts to the soil while pits are stored at Pantex Plant prior to relocation because the pits would not come in contact with the soil under normal conditions. Impacts due to erosion, subsidence, and seismic hazards are the same as those described for the Proposed Action.

4.5.5 Cumulative Impacts

The cumulative impacts presented here include impacts of the continued operations at Pantex Plant combined with impacts associated with activities described in the WM PEIS, SSM PEIS, and S&D PEIS. Since the Pantex Plant EIS Proposed Action and the SSM PEIS No Action Alternative represent a continuum of operations, the impacts associated with any new mission or facility that could be implemented at Pantex Plant are discussed in the context of that continuum. The impacts from the WM PEIS program are combined with those of the Pantex Plant EIS Proposed Action. The impacts from the S&D PEIS are combined with those of the SSM PEIS No Action Alternative. A detailed discussion of this methodology is presented in section 4.2.

4.5.5.1 Impacts of Alternatives in the Waste Management Programmatic Environmental Impact Statement

Soil disturbance due to the location of waste management facilities was not addressed in the WM PEIS. However, temporary disturbance of

TABLE 4.5.2.2–1.—Area of Temporarily Disturbed Soil Due to the Construction of New Facilities

NEW FACILITY TO BE CONSTRUCTED	LOCATION	AREA OF TEMPORARILY DISTURBED SOIL ¹
Hazardous Waste Treatment and Processing Facility	Adjacent to Zones 11 & 12	5,296 m ² (57,000 ft ²)
Pit Reuse Facility	Zone 12	987 m ² (10,628 ft ²)
Gas Analysis Lab	Adjacent to Zone 11	5,073 m ² (54,608 ft ²)
Materials Compatibility Assurance Facility	Adjacent to Zone 11	4,030 m ² (43,380 ft ²)
Nondestructive Evaluation Facility	Zone 12	7,468 m ² (80,392 ft ²)
Metrology and Health Physics Calibration and Acceptance Facility	Zone 12	8,948 m ² (96,312 ft ²)

¹Area of temporarily disturbed soil is estimated to be twice the floor area of facilities listed above.

Source: PC 1995g:7-10