

**Waste Isolation Pilot Plant  
 Necessary Information for the Hazardous Waste Facility Permit  
 Renewal Application — Part B  
 Maps and Illustrations  
 § 40 CFR 270.14(b)(19)**

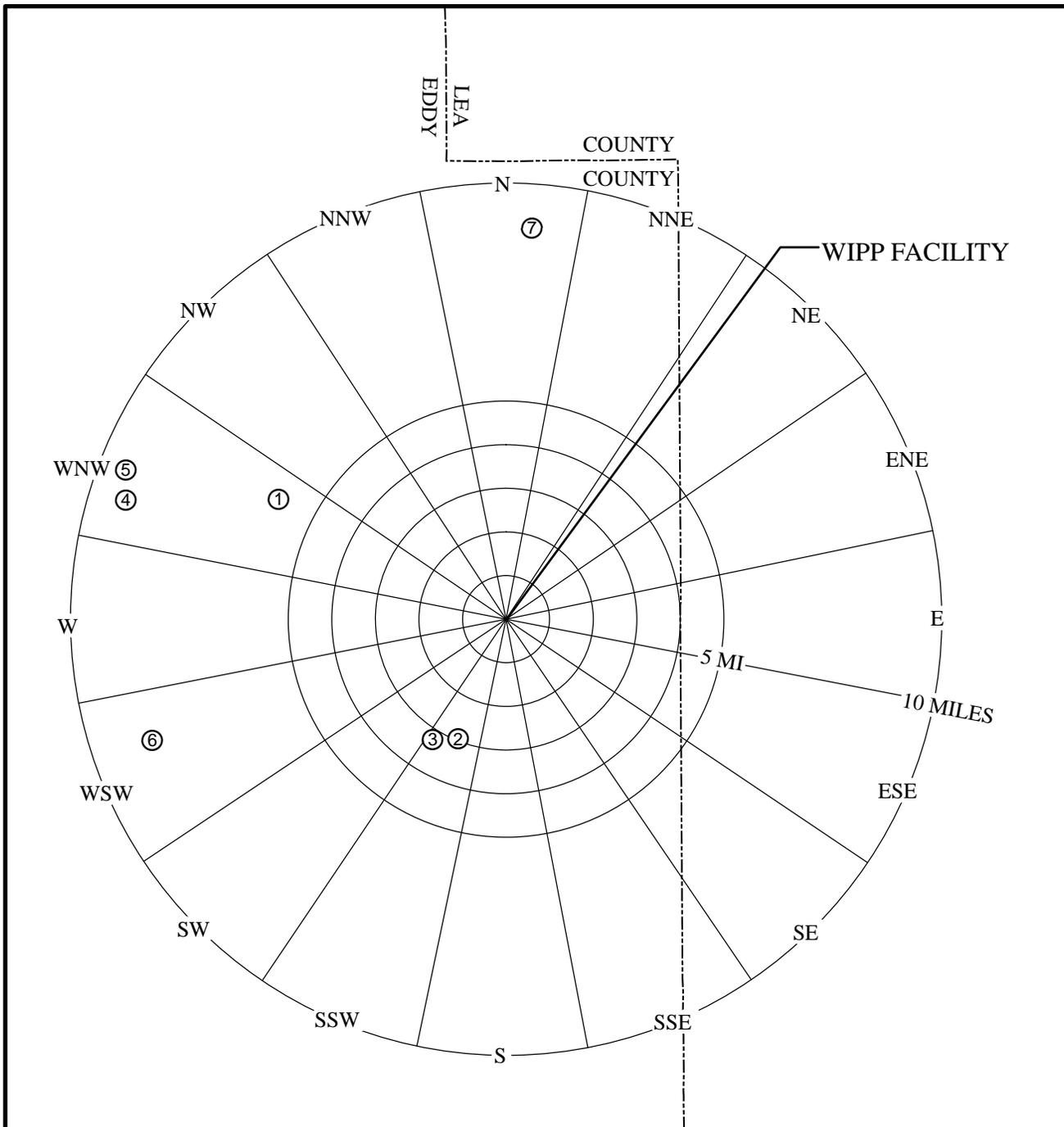
Regulatory Citation	Requirement	Comment	Identification No
§ 40 CFR 270.14(b)(19)	A topographic map showing a distance of 1,000 feet around the facility at a scale of 2.5 centimeters (1 inch) equal to not more than 61.0 meters (200 feet). Contours must be shown on the map. The contour interval must be sufficient to clearly show the pattern of surface water flow in the vicinity of and from each operational unit of the facility. For example, contours with an interval of 1.5 meters (5 feet), if relief is greater than 6.1 meters (20 feet), or an interval of 0.6 meters (2 feet), if relief is less than 6.1 meters (20 feet). Owners and operators of HWM facilities located in mountainous areas should use large contour intervals to adequately show topographic profiles of facilities. The map shall clearly show the following:	As the Waste Isolation Pilot Plant (WIPP) facility is a large facility consisting of 16 sections (each section containing 640 acres) several maps and figures were employed so that the information that is required by § 40 CFR 270.14(19) <i>et seq.</i> can be better illustrated. Map scale and contours are noted on the appropriate figures and maps. To place all information on one topographic map would make it difficult to review.  This table was provided to make it easier for the reviewer to locate the information.	Figure 2-3 This figure is shown under Tab Part A
§ 40 CFR 270.14(b)(19)(i)	Map scale and date	There are multiple maps and figures provided to illustrate the required information. All appropriate maps and figures depict map scale, date.	NA
§ 40 CFR 270.14(b)(19)(ii)	100-year floodplain area	The WIPP facility is not in the 100-year floodplain	NA
§ 40 CFR 270.14(b)(19)(iii)	Surface waters including intermittent streams	There are no surface waters or intermittent streams	NA

Regulatory Citation	Requirement	Comment	Identification №
§ 40 CFR 270.14(b)(19)(iv)	Surrounding land uses	2007 CY - Mines and Inhabited Ranches within a 10-mile Radius of the WIPP Facility 2007 CY - Maximum Yearly Cattle Density within a 50-mile Radius of the WIPP Facility 2007 CY - Natural Gas Pipelines within a 5-mile Radius of the WIPP Facility 2000 CY – Population within a 50-mile Radius of the WIPP Facility 2007 CY – Acres Planted in Edible Agriculture and Commercial Crops within a 50-mile Radius of the WIPP Facility	Demographic A  Demographic B  Demographic C  Demographic D  Demographic E
§ 40 CFR 270.14(b)(19)(v)	A wind rose	Wind Speed Report (meters/second), January 1, 2006 to December 31, 2006, Elevation 10.0 meters	Wind Rose
§ 40 CFR 270.14(b)(19)(vi)	Orientation of the map	Each map contains a north orientation compass	All maps and appropriate figures
§ 40 CFR 270.14(b)(19)(vii)	Legal boundaries of the HWM facility site	Topographic Map with Underground Facilities and Land Withdrawal Area/Location of Facilities	Part A Application Figure 2-3 and 23-C-007-W
§ 40 CFR 270.14(b)(19)(viii)	Access control	WIPP Site Facility Master Plant	24-C-022-W
§ 40 CFR 270.14(b)(19)(ix)	Injection and withdrawal wells both on-site and off-site	Topographic Map with Underground Facilities	Part A Application Figure 2-3
§ 40 CFR 270.14(b)(19)(x)	Buildings; treatment, storage, or disposal operations; or other structure	WIPP Site Facility Master Plant and Underground Mine Plan Structure of Base of Orange Marker Band	24-C-022-W 22-V-001-W
§ 40 CFR 270.14(b)(19)(xi)	Barriers for drainage or flood control	Infiltration Controls Unit and WIPP Site Finish Grading and Paving	23-C-011-W1 and 24-C-028-W1
§ 40 CFR 270.14(b)(19)(xii)	Location of operational units within the HWM facility site, where hazardous waste is treated, stored, or disposed	Surface: Storage Units/Parking Area Unit Underground: Hazardous Waste Disposal Units ( <b>HWDUs</b> )	24-C-022-W 22-V-001-W Part A Application

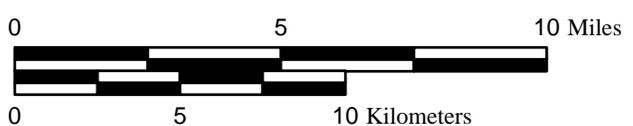
Regulatory Citation	Requirement	Comment	Identification №
			Part A Application Figure 2-3
<b>The Following Drawings Contain New/Revised Information and Are Being Submitted With the Renewal Application – Part B</b>			
§ 40 CFR 270.14(b)(19)(x)	Buildings; treatment, storage, or disposal operations; or other structure (recreation areas, runoff control systems, access and internal roads, storm, sanitary, and process sewerage systems, loading and unloading areas, fire control facilities, etc.)	Salt Pile Infiltration Controls New Design Sanitary Sewage Lagoon Liner Replacement Project Site Plan and Details	23-C-011-W1 24-C-066-W1
§ 40 CFR 270.14(b)(19)(xi)	Barriers for drainage or flood control.	WIPP Site Finish Grading and Paving, Rev. AC	24-C-028-W1 24-C-028-W2
§ 40 CFR 270.14(b)(8)	A description of procedures, structures, or equipment used at the facility.	WIPP Site Primary Power – One Line Selected Load System Interrupter Lineup Surface and Underground, Rev. N	25-J-020-W6
§ 40 CFR 270.14(b)(19)(x)	Buildings; treatment, storage, or disposal operations; or other structure (recreation areas, runoff control systems, access and internal roads, storm, sanitary, and process sewerage systems, loading and unloading areas, fire control facilities, etc.)	Waste Handling Building 411 Firewater Collection Sprinkler System P & ID, Rev. H	41-S-003-W1
§ 40 CFR 270.14(b)(19)(x)	Buildings; treatment, storage, or disposal operations; or other structure (recreation areas, runoff control systems, access and internal roads, storm, sanitary, and process sewerage systems, loading and unloading areas, fire control facilities, etc.)	Waste Handling Building 411 Firewater Collection Sprinkler System P & ID, Rev. N	41-S-003-W2
§ 40 CFR 270.14(b)(19)(x)	Buildings; treatment, storage, or disposal operations; or other structure (recreation areas, runoff control systems, access and internal roads, storm, sanitary, and process sewerage systems, loading and unloading areas, fire control facilities, etc.)	Waste Handling Building 411 Firewater Collection Sprinkler System P & ID, Rev. C	41-S-003-W3
§ 40 CFR 270.14(b)(19)(x)	Buildings; treatment, storage, or disposal operations; or other structure (recreation areas, runoff control systems, access and internal roads, storm, sanitary, and process sewerage systems, loading and unloading	Waste Handling Building 411 Firewater Collection Sprinkler System P & ID, Rev. H	41-S-003-W4

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Regulatory Citation	Requirement	Comment	Identification №
	areas, fire control facilities, etc.)		
§ 40 CFR 270.14(b)(19)(x)	Buildings; treatment, storage, or disposal operations; or other structure (recreation areas, runoff control systems, access and internal roads, storm, sanitary, and process sewerage systems, loading and unloading areas, fire control facilities, etc.)	Underground Utilities Fire Panel 534-FP-0320, Rev. P	53-J-039-W
§ 40 CFR 270.14(b)(19)(x)	Buildings; treatment, storage, or disposal operations; or other structure (recreation areas, runoff control systems, access and internal roads, storm, sanitary, and process sewerage systems, loading and unloading areas, fire control facilities, etc.)	Underground Utilities Fire Panel 534-FP-00601, Rev. U	53-J-042-W
§ 40 CFR 270.14(b)(19)(x)	Buildings; treatment, storage, or disposal operations; or other structure (recreation areas, runoff control systems, access and internal roads, storm, sanitary, and process sewerage systems, loading and unloading areas, fire control facilities, etc.)	Waste Handling Facilities TRUPACT Dock Equipment Arrangement, Rev E	41-M-001-W
§ 40 CFR 270.14(b)(19)(x)	Buildings; treatment, storage, or disposal operations; or other structure (recreation areas, runoff control systems, access and internal roads, storm, sanitary, and process sewerage systems, loading and unloading areas, fire control facilities, etc.)	CH Area Constant Volume CH Area HVAC Flow Diagram Supply Air, Rev. J	41-B-010-W1
§ 40 CFR 270.14(d)(1)(iii)	General dimensions and structural description.	Underground Mine Plan Shaft and Drift Dimensions, Rev. F	54-W-009-W

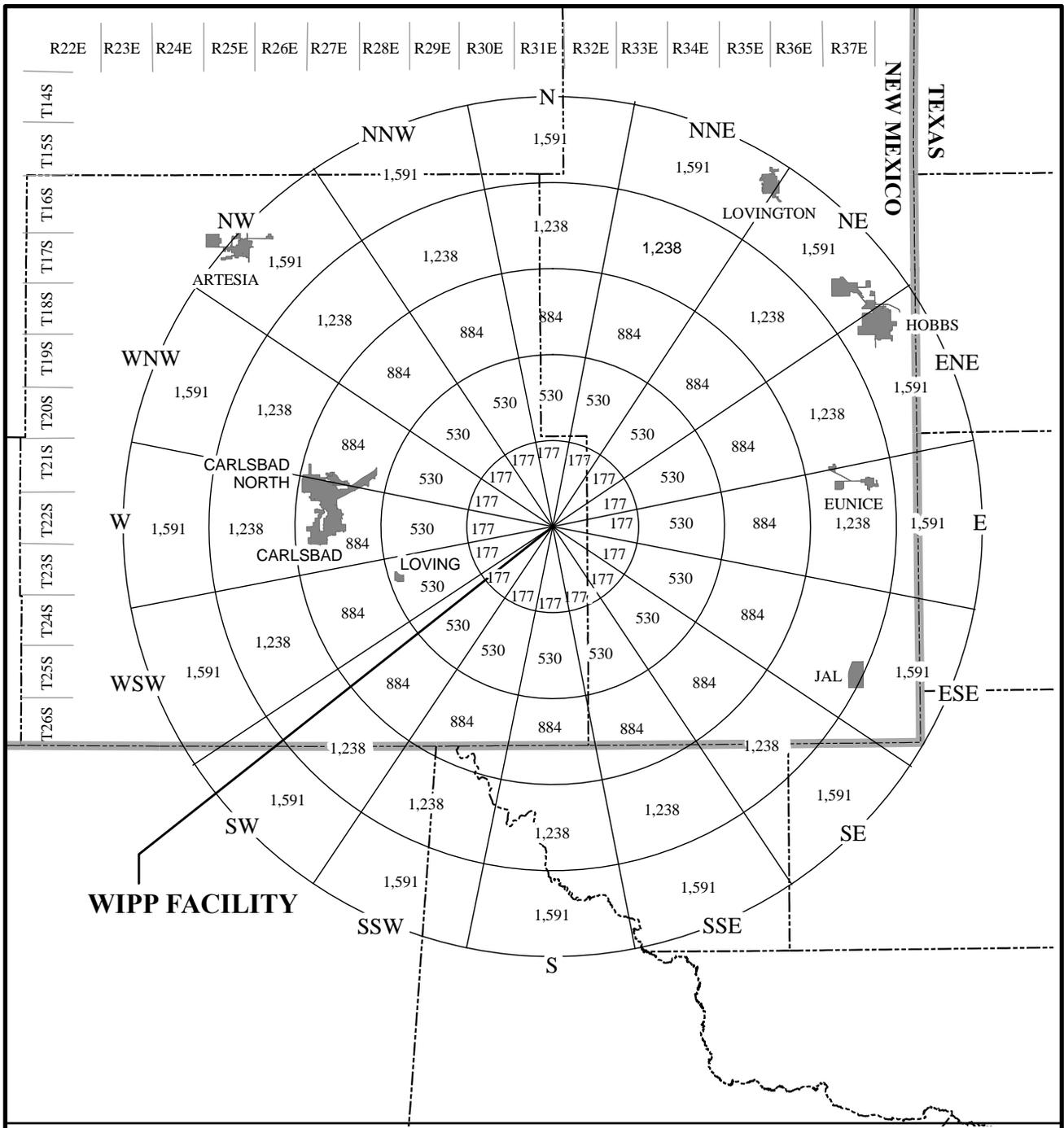


- 1. Smith Ranch
- 2. James Ranch
- 3. Mills Ranch
- 4. Mosaic Potash (Main facility)
- 5. United Salt Corp.
- 6. Mosaic – Shaft #5
- 7. Intrepid Potash – East Facility



Sources: Hughes, D.L., Delaware Basin Drilling Surveillance; USA PHOTOMAPS; GOOGLE Earth; Eddy County Planning Department; New Mexico Cattle Growers Association; Artesia Alfalfa Growers

Demographic A  
**2007 CY - Active Mines and Inhabited Ranches  
 within a 10-Mile Radius of the WIPP Facility**



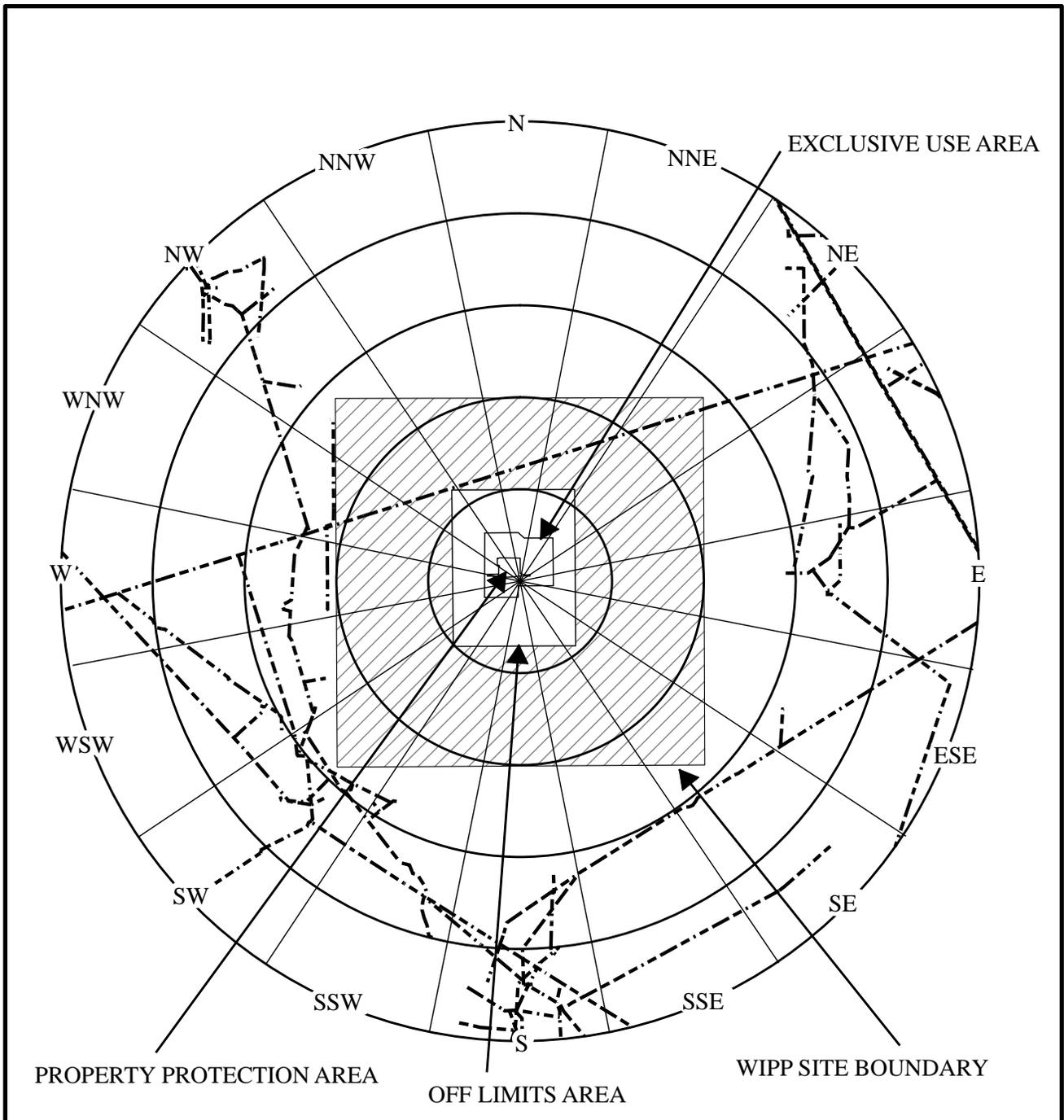
- Legend**
- County
  - ==== State
  - Township/Range
  - 10-50 Mile Rings

9 head per section are allowed within a 50 mile (80 km) radius of WIPP



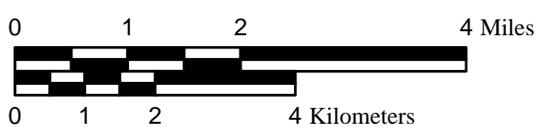
Sources: Pavelik, B. Bureau of Land Management; New Mexico Cattle Growers Association; Artesia Alfalfa Growers

**Demographic B**  
**2007 CY - Maximum Yearly Cattle Density within a 50-Mile Radius of the WIPP Facility**



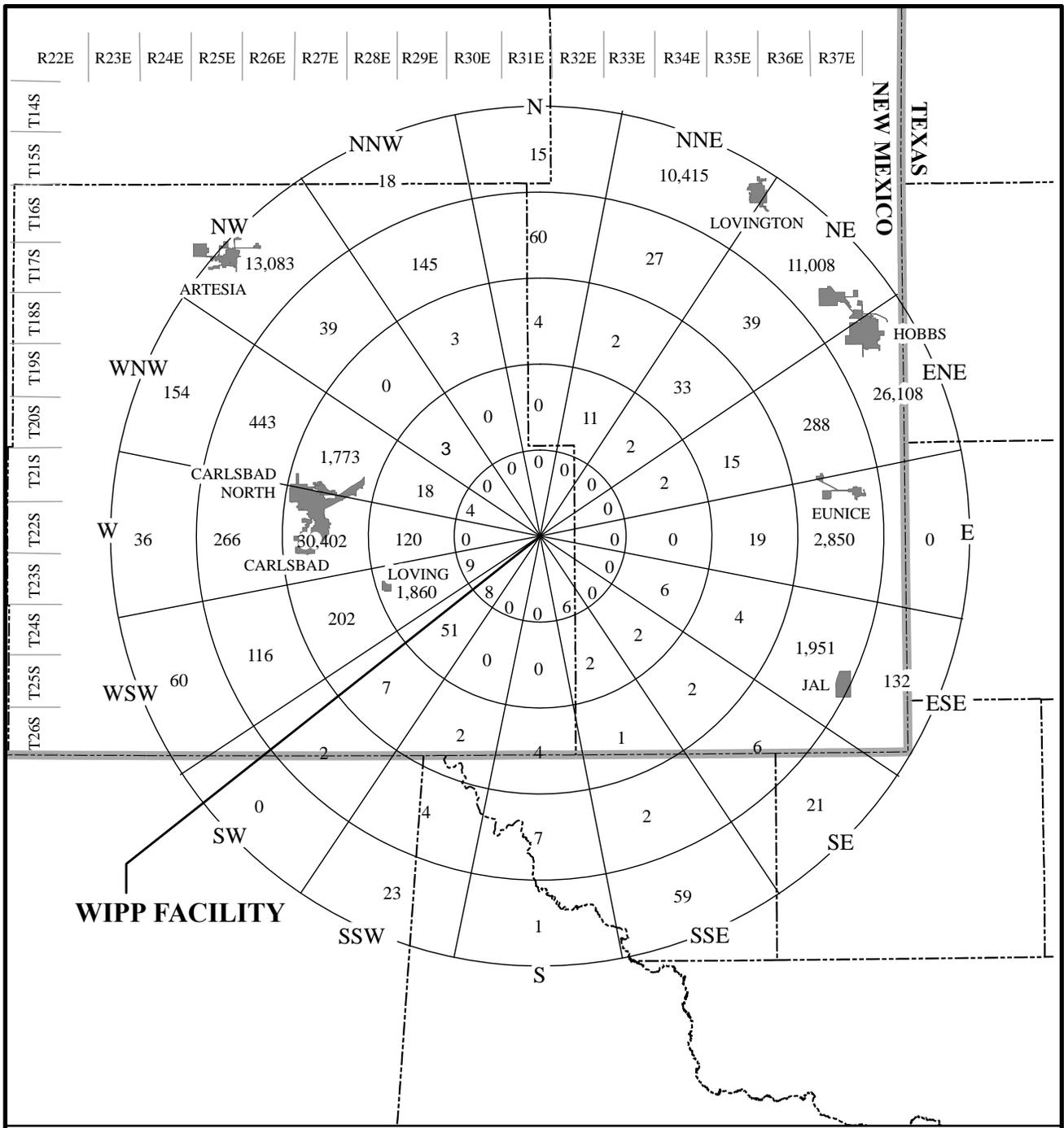
**Legend**

-  WIPP Site Boundary
-  Pipelines



Sources: Bureau of Land Management; El Paso Natural Gas/Mohave Pipeline; Hughes, D.L., Delaware Basin Drilling Surveillance

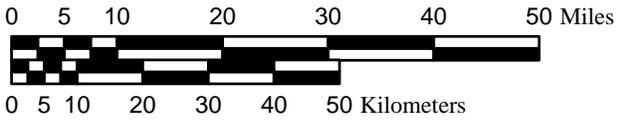
Demographic C  
**2007 CY - Natural Gas Pipelines within a 5-Mile Radius of the WIPP Facility**



**Legend**

Based on 2000 Census block point data

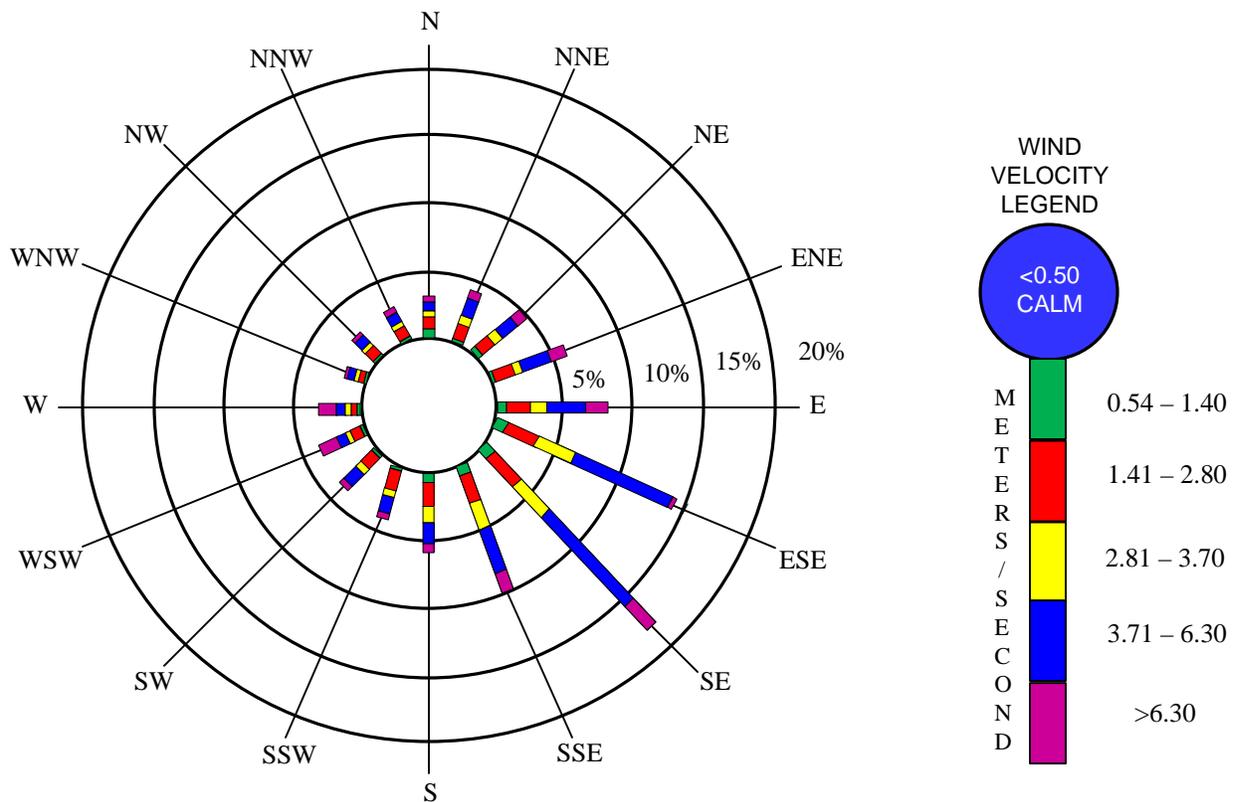
- County
- ==== State
- Township/Range
- 10-50 Mile Rings



Source: U.S. Census Bureau

**Demographic D**  
**2000 CY - Population within a 50-Mile Radius of the WIPP Facility**





**Wind Rose**  
**Wind Speed Report (Meters/Second)**  
**January 1, 2007, to December 31, 2007 - Elevation 10.0 Meters**