# ATTACHMENT B HAZARDOUS WASTE PERMIT APPLICATION PART A

Waste Isolation Pilot Plant
<a href="Draft">Draft</a> Hazardous Waste Permit
<a href="February 2018">February 2018</a> January 2016

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## **ATTACHMENT B**

# **HAZARDOUS WASTE PERMIT APPLICATION PART A**

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Waste Isolation Pilot Plant
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<a href="February 2018">February 2018</a> January 2016

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OMB# 2050-0024; Expires 01/31/2017

FO The Sta	ND MPLETED RMTO: e Appropriate te or Regional ice.	United States Environmental Protection Agency RCRA SUBTITLE C SITE IDENTIFICATION FORM	The state of the s									
Casas	Reason for Submittal MARK ALL BOX(ES) THAT APPLY	Reason for Submittal:  To provide an Initial Notification (first time submitting site identification information / to obtain an EPA ID number for this location)  To provide a Subsequent Notification (to update site identification information for this location)  As a component of a First RCRA Hazardous Waste Part A Permit Application  As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment #_32)  As a component of the Hazardous Waste Report (If marked, see sub-bullet below)  Site was a TSD facility and/or generator of >1,000 kg of hazardous waste, >1 kg of acute hazardous waste, or >100 kg of acute hazardous waste spill cleanup in one or more months of the report year (or State equivalent LQG regulations)										
2.	Site EPA ID Number	EPA ID Number										
3.	Site Name	Name: Waste Isolation Pilot Plant										
4.	Site Location Information	Street Address: 30 miles east of Carlsbad on Jal Highway  City, Town, or Village: Carlsbad	County: Eddy									
		State: NM Country: USA	Zip Code: 88221									
5.	Site Land Type	☐ Private ☐ County ☐ District ☑ Federal ☐ Tribal ☐ Municipal	☐State ☐ Other									
6.	NAICS Code(s)	A. [5   6   2   2   1   ] C. [   ]										
	for the Site (at least 5-digit codes)	B D										
7.	Site Mailing	Street or P.O. Box: P.O. Box 3090										
	Address	City, Town, or Village: Carlsbad										
		State: NM Country: USA	Zip Code: 88221									
8.	Site Contact	First Name: Todd MI: A Last: Shrader										
	Person	Title: Manager, Carlsbad Field Office (CBFO)										
		Street or P.O. Box: P.O. Box 3090										
		City, Town or Village: Carlsbad	_									
		State: NM Country: USA	Zip Code: 88221									
		Email: Todd.Shrader@cbfo.doe.gov	a• <b>b</b> a atanaa a aanaa aanaa aanaa aanaa a									
		Phone: (575) 234-7300 Ext.:	Fax: (575) 234-7027									
9.	Legal Owner and Operator	A. Name of Site's Legal Owner: U.S. Department of Energy	Owner: 05/18/1981									
	of the Site	Owner Type: Private County District Federal Tribal Munic	cipal State Other									
		Street or P.O. Box: P.O. Box 3090	T									
		City, Town, or Village: Carlsbad	Phone: (575) 234-7300									
		State: NM Country: USA	Zip Code: 88221									
		B. Name of Site's Operator: U.S. Department of Energy	Date Became Operator: 05/18/1981									
		Operator Type: Private County District Federal Tribal Munic	cipal									

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EPA ID Number	OMB#: 2050-0024; Expires 01/31/2017
<ol> <li>Type of Regulated Waste Activity (at your site)</li> <li>Mark "Yes" or "No" for all current activities (as of the date submitting the</li> </ol>	form); complete any additional boxes as instructed.
A. Hazardous Waste Activities; Complete all parts 1-10.	
Y N ☐ 1. Generator of Hazardous Waste If "Yes," mark only one of the following – a, b, or c.	Y N 5. Transporter of Hazardous Waste If "Yes," mark all that apply.
Generates, in any calendar month, 1,000 kg/mo (2,200 lbs/mo.) or more of hazardous waste; or Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lbs/mo) of acute hazardous waste; or Generates, in any calendar month, or accumulates at any time, more than 100 kg/mo (220 lbs/mo) of acute hazardous spill cleanup material.	a. Transporter  b. Transfer Facility (at your site)  Y ✓ N ☐ 6. Treater, Storer, or Disposer of Hazardous Waste Note: A hazardous waste Part B permit is required for these activities.  Y ☐ N ✓ 7. Recycler of Hazardous Waste
b. SQG: non-acute hazardous waste.  c. CESQG: Less than 100 kg/mo (220 – 2,200 lbs/mo) of non-acute	Y N S Exempt Boiler and/or Industrial Furnace
hazardous waste.  If "Yes" above, indicate other generator activities in 2-10.  Y N O 2. Short-Term Generator (generate from a short-term or one-time event and not from on-going processes). If "Yes," provide an explanation in the Comments section.	If "Yes," mark all that apply.  a. Small Quantity On-site Burner Exemption b. Smelting, Melting, and Refining Furnace Exemption
Y N ✓ 3. United States Importer of Hazardous Waste Y ✓ N — 4. Mixed Waste (hazardous and radioactive) Generator	Y N Ø 9. Underground Injection Control Y Ø N ■ 10. Receives Hazardous Waste from Off-site
B. Universal Waste Activities; Complete all parts 1-2.  Y N 1. Large Quantity Handler of Universal Waste (you accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste managed at your site. If "Yes," mark all that apply.	C. Used Oil Activities; Complete all parts 1-4.  Y N 1. Used Oil Transporter If "Yes," mark all that apply.  a. Transporter b. Transfer Facility (at your site)
a. Batteries b. Pesticides c. Mercury containing equipment d. Lamps e. Other (specify) f. Other (specify) g. Other (specify)  Y N   2. Destination Facility for Universal Waste Note: A hazardous waste permit may be required for this activity.	Y

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EPA ID Number	N M 4 8	9 0 1 3 9	0 8 8		OMB#: 2050-0	024; Expires 01/31/2017
	demic Entities with I		cation for opting in	to or withdrawing fr	om managing la	boratory hazardous
	in ONLY Opt into Sub					
	are at least one of the	A an over your	or university: a teac	hing hospital that is o	wned by or has a	formal affiliation
agre		or university; or a no				ffiliation agreement with
<ul> <li>you</li> </ul>	have checked with yo	our State to determine	if 40 CFR Part 262	Subpart K is effective	e in your state	
	Opting into or currently See the item-by-item					wastes in laboratories that apply:
	a. College or Univer	100 Tel				
22_2	b. Teaching Hospita					
	c. Non-profit Institu	te that is owned by	or has a formal writ	ten affiliation agree	ment with a colle	ge or university
Y N 2. V	Withdrawing from 40 C	CFR Part 262 Subpart	K for the managem	ent of hazardous was	tes in laboratories	
1. Description	of Hazardous Waste					
your site. Lis	s for Federally Regu st them in the order th					
spaces are n	D019	D033	F001	P030	U043	U108
D005	D021	D034	F002	P098	U044	U122
D006	D022	D035 D036 D037	F003 F004 F005	P099 P106 P120 U002	U052 U070 U072 U078	U133
D007	D026					U134
D008	D027					U151
D009	D028	D038	F006			U154
D010	D029	D039	F007	U003	U079	U159
D011	D030	D040	F009	U019	U103	U196
D018	D032	D043	P015	U037	U105	More Codes Attch.
	s for State-Regulate astes handled at your eeded.					
			_			

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### EPA ID Number NM4890139088

Additional Hazardous Waste Numbers from Section 11								
U209					6			
U210								
U220								
U226								
U228								
U239				-				

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EPA ID Nun	ber N M 4 8 9 0 1	3 9 0 8 8	OMB#: 2050-0024; Expires 01/31/2017									
12. Notifica	tion of Hazardous Secondary Mater	ial (HSM) Activity										
Y N N		42 that you will begin managing, are managing 31.2(a)(2)(ii), 40 CFR 261.4(a)(23), (24), or (25										
	If "Yes," you must fill out the Addendum to the Site Identification Form: Notification for Managing Hazardous Secondary Material.											
13. Comme	3. Comments											
accorda on my in informat penalties	14. Certification. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. For the RCRA Hazardous Waste Part A Permit Application, all owner(s) and operator(s) must sign (see 40 CFR 270.10(b) and 270.11).											
	f legal owner, operator, or an representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)									
Original Sig	nature on File	Todd A. Shrader, Manager-CBFO	06/12/2017									
Original Sig	nature on File	Bruce C. Covert, Project Mgr-NWP	06/12/2017									
EPA Form 8700-12, 8700-13 A/B, 8700-23 Page 4 of £												

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	HAZ	ARD	ous	S WA	STI	E PE	RM	IT I	NFO	RMAT	ION FORM			
Facility Permit     Contact	First I	Name:	Todd				MI:	Д	Last	Name: Shrader				
1000 - 1001 - 100	Conta	ct Title	: Man	ager,	Carlst	bad F	eld Of	fice						
	Phone	e: (575)	)234-7	300				Ext			Email:Todd.Shrader@cbfo.doe.gov			
2. Facility Permit Contact Mailing	Street or P.O. Box: P.O. Box 3090													
Address	City, Town, or Village: Carlsbad													
	State: NM													
	Country: USA										e:88221			
Operator Mailing     Address and	Street	or P.C	). Box:	P.O. E	30x 30	090								
Telephone Number	City, Town, or Village: Carlsbad													
	State:	NM						Phone: (	575)234-7300					
	Count	Country: USA									e:88221			
4. Facility Existence Date	Facili	ty Exis	tence l	Date (n	nm/dd	l/yyyy)	: 05/18	3/198	31					
5. Other Environmental				-300-30740										
A. Facility Type (Enter code)			B. Per	mit Nu	mber						C. Description			
	$\sqcap$	See Pe								Permit Attachment B, Appendix B1				
					П		П							
					П									
	$\Box$	П			П	$\top$		Τ						
	$\Box$				П		$\Box$	1						
	$\Box$				П	$\top$		T						
	$\top \top$	11			$\Box$									
					П									
	11				П									
	$\top$	$\top$		П	$\Box$	$\top$	$\top$	$\top$						
L H	unloadir	ng, and ous wa	d trans ste ma	ferring anager	radio	pactive units.	e-mixe Waste	d wa	ste fro	om the su placed in	Energy facility which entails receiving, rface of the site to the underground an underground geologic repository 2,150 feet beneath the surface.			

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- 7. Process Codes and Design Capacities Enter information in the Section on Form Page 3
- A. PROCESS CODE Enter the code from the list of process codes below that best describes each process to be used at the facility. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), describe the process (including its design capacity) in the space provided in Item 8.
- B. PROCESS DESIGN CAPACITY For each code entered in Item 7.A; enter the capacity of the process.
  - 1. AMOUNT Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action)
  - enter the total amount of waste for that process.

    2. UNIT OF MEASURE For each amount entered in Item 7.B(1), enter the code in Item 7.B(2) from the list of unit of measure codes below that describes the unit of measure used. Select only from the units of measure in this list.
- C. PROCESS TOTAL NUMBER OF UNITS Enter the total number of units for each corresponding process code.

Process Code	Process	Appropriate Unit of Measure for Process Design Capacity	Process Code	Proces	Process Design Capacity				
	Disp	posal	Tr	eatment (Continu	ued) (for T81 – T94)				
D79	Underground Injection Well Disposal	Gallons; Liters; Gallons Per Day; or Liters Per Day	T81	Cement Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour;				
D80	Landfill	Acre-feet; Hectares-meter; Acres; Cubic Meters; Hectares; Cubic Yards	T82	Lime Kiln	Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; BTU Per Hour; Liters Per Hour;				
D81	Land Treatment	Acres or Hectares	T83	Aggregate Kiln	Kilograms Per Hour; or Million BTU Per				
D82	Ocean Disposal	Gallons Per Day or Liters Per Day	T84	Phosphate Kiln	Hour				
D83	Surface Impoundment Disposal	Gallons; Liters; Cubic Meters; or Cubic Yards	T85	Coke Oven					
D99	Other Disposal	Any Unit of Measure Listed Below	T86	Blast Furnace					
	Sto	rage	T87	Smelting, Meltin	g, or Refining Furnace				
S01	Container	Gallons; Liters; Cubic Meters; or Cubic Yards	T88	Titanium Dioxide	e Chloride Oxidation Reactor				
S02	Tank Storage	Gallons; Liters; Cubic Meters; or Cubic Yards	T89	Methane Reform	ning Furnace				
S03	Waste Pile	Cubic Yards or Cubic Meters	T90	Pulping Liquor F	Recovery Furnace				
S04	Surface Impoundment	Gallons; Liters; Cubic Meters; or Cubic Yards	T91	Combustion Dev Sulfuric Acid	vice Used in the Recovery of Sulfur Values from Spent				
S05	Drip Pad	Gallons; Liters; Cubic Meters; Hectares; or Cubic Yards	T92	Halogen Acid Fu	Furnaces				
S06	Containment Building Storage	Cubic Yards or Cubic Meters	T93	Other Industrial	Furnaces Listed in 40 CFR 260.10				
S99	Other Storage	Any Unit of Measure Listed Below	T94	Containment Bu Treatment	illding Cubic Yards; Cubic Meters; Short Tons Per Hour; Gallons Per Hour; Liters Per				
	Trea	tment	]		Hour; BTU Per Hour; Pounds Per Hour;				
T01 T02	Tank Treatment Surface Impoundment	Gallons Per Day; Liters Per Day Gallons Per Day; Liters Per Day			Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; Gallons Per Day; Liters Per Day; Metric Tons Per				
102	Surface impoundment	Gallons Per Day, Liters Per Day			Hour; or Million BTU Per Hour				
T03	Incinerator	Short Tons Per Hour; Metric Tons			Miscellaneous (Subpart X)				
		Per Hour; Gallons Per Hour; Liters Per Hour; BTUs Per Hour; Pounds Per Hour; Short Tons Per Day;			Open Any Unit of Measure Listed Below				
		Kilograms Per Hour; Gallons Per Day; Metric Tons Per Hour; or Million BTU Per Hour	X02	Mechanical Proc	cessing Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day; Pounds Per Hour; Kilograms Per Hour; Gallons Per Hour; Liters Per				
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric	141455-1		Hour; or Gallons Per Day				
		Tons Per Day; Short Tons Per Day; BTUs Per Hour; Gallons Per Day; Liters Per Hour; or Million BTU Per Hour	X03	Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; BTU Per Hour; or Million BTU				
T80	Boiler	Gallons; Liters; Gallons Per Hour; Liters Per Hour; BTUs Per Hour; or	X04	Geologic Repos					
	Million BTU Per Hour		X99	Other Subpart X	Hectare-meter, Gallons; or Liters  Any Unit of Measure Listed Below				
Unit of Me	assure Unit of Mo	asure Code Unit of Measure		Measure Code	Unit of Measure Unit of Measure Code				
Gallons		G Short Tons Per Hour		D	Cubic YardsY Cubic Meters				
Gallons Po Liters Liters Per	er HourHour	U Metric Tons Per HourL Metric Tons Per DayH Pounds Per Hour		 S J X	Cubic Meters				

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N M 4 8 9 0 1 3 9 0 8 8 EPA ID Number OMB#: 2050-0024; Expires 01/31/2017 7. Process Codes and Design Capacities (Continued) EXAMPLE FOR COMPLETING Item 7 (shown in line number X-1 below): A facility has a storage tank, which can hold 533.788 gallons. B. PROCESS DESIGN CAPACITY C. Process Total Line Code (From list above) For Official Use Only Number **Number of Units** (1) Amount (Specify) (2) Unit of Measure X 1 s 0 2 533.788 G 001 C X 0 4 175600.00 010 2 S C 1 194.1 001 3 S 1 C 001 0 242.0 4 5 6 7 8 9 0 1 1 1 2 Note: If you need to list more than 13 process codes, attach an additional sheet(s) with the information in the same format as above. Number the line sequentially, taking into account any lines that will be used for "other" process (i.e., D99, S99, T04, and X99) in Item 8. 8. Other Processes (Follow instructions from Item 7 for D99, S99, T04, and X99 process codes) Line **B. PROCESS DESIGN CAPACITY** Number A. Process Code C. Process Total For Official Use Only (Enter #s in (2) Unit of Measure Number of Units (From list above) (1) Amount (Specify) 2 т 0 4 100.00 001 X

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- 9. Description of Hazardous Wastes Enter Information in the Sections on Form Page 5
  - A. EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR Part 261, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
  - B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in Item 9.A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in Item 9.A, estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
  - C. UNIT OF MEASURE For each quantity entered in Item 9.B, enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	Р	KILOGRAMS	К
TONS	Т	METRIC TONS	М

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure, taking into account the appropriate density or specific gravity of the waste.

#### D. PROCESSES

#### 1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in Item 9.A, select the code(s) from the list of process codes contained in Items 7.A and 8.A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all listed hazardous wastes.

For non-listed waste: For each characteristic or toxic contaminant entered in Item 9.A, select the code(s) from the list of process codes contained in Items 7.A and 8.A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- 1. Enter the first two as described above.
- 2. Enter "000" in the extreme right box of Item 9.D(1).
- 3. Use additional sheet, enter line number from previous sheet, and enter additional code(s) in Item 9.E.
- PROCESS DESCRIPTION: If code is not listed for a process that will be used, describe the process in Item 9.D(2) or in Item 9.E(2).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER – Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- Select one of the EPA Hazardous Waste Numbers and enter it in Item 9.A. On the same line complete Items 9.B, 9.C, and 9.D by estimating the total annual quantity of the waste and describing all the processes to be used to store, treat, and/or dispose of the waste.
- In Item 9.A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In Item 9.D.2 on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING Item 9 (shown in line numbers X-1, X-2, X-3, and X-4 below) – A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operations. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Li	ine	A. EPA Hazardous Waste No.		B. Estimated Annual	C. Unit of Measure	D. PROCESSES									
Nur	nber			code)	)	Qty of Waste	(Enter code)		(1) P	ROC	ESS (	CODE	S (E	(2) PROCESS DESCRIPTION (If code is not entered in 9.D(1))	
Х	1	К	0	5	4	900	Р	Т	0	3	D	8	0		
Х	2	D	0	0	2	400	Р	Т	0	3	D	8	0		
Х	3	D	0	0	1	100	Р	Т	0	3	D	8	0		
х	4	D	0	0	2										Included With Above

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		Α. Ε	PA H	azard	ous	B. Estimated	C. Unit of	al sheet(s) as necessary; number pages as 5a, etc.)  D. PROCESSES									
Line Nu	ımber		Wast Enter	e No.		Annual Qty of Waste	Measure (Enter code)		(1) P	ROCI	ESS (	ODE		(2) PROCESS DESCRIPTION (If code is not entered in 9.D(1)			
	1	F	0	0	1 1891	М	X	0	4	s	0	1	s	0	1		
	2	F	0	0	2	1860	М	Х	0	4	S	0	1	s	0	1	
	3	F	0	0	3	1593	М	X	0	4	S	0	1	s	0	1	
	4	F	0	0	4	26	М	X	0	4	s	0	1	s	0	1	
	5	F	0	0	5	1829	М	Х	0	4	s	0	1	s	0	1	
	6	F	0	0	6	915	M	Х	0	4	s	0	1	s	0	1	
	7	F	0	0	7	915	М	X	0	4	S	0	1	s	0	1	
	8	F	0	0	9	915	М	Х	0	4	s	0	1	s	0	1	
	9	D	0	0	4	903	М	Х	0	4	s	0	1	s	0	1	
1	0	D	0	0	5	484	М	Х	0	4	s	0	1	s	0	1	
1	1	D	0	0	6	1819	М	X	0	4	s	0	1	S	0	1	
1	2	D	0	0	7	1248	М	X	0	4	s	0	1	s	0	1	
1	3	D	0	0	8	3246	М	Х	0	4	s	0	1	s	0	1	
1	4	D	0	0	9	1727	М	X	0	4	S	0	1	s	0	1	
1	5	D	0	1	0	186	М	X	0	4	s	0	1	s	0	1	
1	6	D	0	1	1	1090	М	Х	0	4	s	0	1	s	0	1	
1	7	D	0	1	8	749	М	Х	0	4	s	0	1	s	0	1	
1	8	D	0	1	9	761	М	X	0	4	s	0	1	s	0	1	
1	9	D	0	2	1	26	М	Х	0	4	s	0	1	s	0	1	
2	0	D	0	2	2	1098	М	Х	0	4	s	0	1	s	0	1	
2	1	D	0	2	6	609	М	X	0	4	S	0	1	s	0	1	
2	2	D	0	2	7	26	М	Х	0	4	S	0	1	s	0	1	
2	3	D	0	2	8	449	М	Х	0	4	s	0	1	s	0	1	
2	4	D	0	2	9	478	М	Х	0	4	s	0	1	s	0	1	
2	5	D	0	3	0	26	М	X	0	4	s	0	1	s	0	1	
2	6	D	0	3	2	26	M	X	0	4	s	0	1	s	0	1	
2	7	D	0	3	4	26	М	Х	0	4	s	0	1	s	0	1	
2	8	D	0	3	5	139	М	X	0	4	s	0	1	s	0	1	
2	9	D	0	3	6	26	М	X	0	4	s	0	1	s	0	1	
3	0	D	0	3	7	26	М	Х	0	4	s	0	1	s	0	1	
3	1	D	0	3	8	26	М	X	0	4	s	0	1	s	0	1	
3	2	D	0	3	9	26	М	X	0	4	s	0	1	s	0	1	
3	3	D	0	4	0	140	М	Х	0	4	s	0	1	s	0	1	
3	4	D	0	4	3	26	М	X	0	4	s	0	1	s	0	1	
3	5	Р	0	1	5	945	М	X	0	4	s	0	1	s	0	1	
3	6	U	0	0	2	344	М	X	0	4	s	0	1	s	0	1	

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N M 4 8 9 0 1 1 3 9 0 8 8 EPA ID Number OMB#: 2050-0024; Expires 01/31/2017 10. Map Attach to this application a topographical map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all spring, rivers, and other surface water bodies in this map area. See instructions for precise requirements. All existing facilities must include a scale drawing of the facility (see instructions for more detail). 12. Photographs All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, and disposal areas; and sites of future storage, treatment, or disposal areas (see instructions for more detail) 13. Comments See narrative to RCRA Subtitle C Site Identification Form, Section 7. PROCESS - CODES AND DESIGN CAPACITIES

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## 2 7. PROCESS—CODES AND DESIGN CAPACITIES (continued)

- 3 The Waste Isolation Pilot Plant (WIPP) geologic repository is defined as a "miscellaneous unit"
- 4 under 40 CFR §260.10. "Miscellaneous unit" means a hazardous waste management unit
- where hazardous waste is treated, stored, or disposed of and that is not a container, tank,
- surface impoundment, waste pile, land treatment unit, landfill, incinerator, containment building,
- 7 boiler, industrial furnace, or underground injection well with appropriate technical standards
- 8 under 40 CFR Part 146, corrective action management unit, or unit eligible for research,
- development, and demonstration permit under 40 CFR §270.65. The WIPP is a geologic
- repository designed for the disposal of defense-generated transuranic (TRU) waste. Some of
- the TRU wastes disposed of at the WIPP contain hazardous wastes as co-contaminants. More
- than half the waste to be disposed of at the WIPP also meets the definition of debris waste. The
- debris categories include manufactured goods, biological materials, and naturally occurring
- geological materials. Approximately 120,000 cubic meters (m³) of the 175,600 m³ of WIPP
- wastes is categorized as debris waste. The geologic repository has been divided into ten
- discrete hazardous waste management units (HWMU) which are being permitted under 40 CFR
- 17 Part 264, Subpart X.
- During the Disposal Phase of the facility, which is expected to last 25 years, the total amount of
- waste received from off-site generators and any derived waste will be limited to 175,600 m<sup>3</sup> of
- TRU waste of which up to 7,080 m<sup>3</sup> may be remote-handled (RH) TRU mixed waste. For
- purposes of this application, all TRU waste is managed as though it were mixed.
- The process design capacity for the miscellaneous unit (composed of ten underground HWMUs
- in the geologic repository) shown in Section 7 B, is for the maximum amount of waste that may
- be received from off-site generators plus the maximum expected amount of derived wastes that
- 25 may be generated at the WIPP facility. In addition, two HWMUs have been designated as
- container storage units (S01) in Section 7 B. One is inside the Waste Handling Building (WHB)
- 27 and consists of the contact-handled (CH) bay, waste shaft conveyance loading room, waste
- shaft conveyance entry room, RH bay, cask unloading room, hot cell, transfer cell, and facility
- cask loading room. This HWMU will be used for waste receipt, handling, and storage (including
- 30 storage of derived waste) prior to emplacement in the underground geologic repository. No
- treatment or disposal will occur in this S01 HWMU. The capacity of this S01 unit for storage is
- 194.1 m<sup>3</sup>, based on 36 ten-drum overpacks on 18 facility pallets, four CH Packages at the
- TRUDOCKs, one standard waste box of derived waste, two loaded casks and one 55-gallon
- drum of derived waste in the RH Bay, one loaded cask in the Cask Unloading Room, 13 55-
- gallon drums in the Hot Cell, one canister in the Transfer Cell and one canister in the Facility
- Cask Unloading Room. The second S01 HWMU is the parking area outside the WHB where the
- 37 Contact- and Remote-Handled Package trailers and the road cask trailers will be parked
- awaiting waste handling operations. The capacity of this unit is 50 Contact-Handled Packages
- and twelve Remote-Handled Packages with a combined volume of 242 m<sup>3</sup>. The HWMUs are
- 40 shown in Figures B3-2, B3-3, and B3-4.
- During the ten year period of the permit, up to 148,500 m<sup>3</sup> of CH TRU mixed waste could be
- emplaced in Panels 1 to 8 and up to 2,635 m<sup>3</sup> of RH TRU mixed waste could be emplaced in
- Panels 4 to 8. Panels 9 and 10 will be constructed under the initial term of this permit. These
- latter areas will not receive waste for disposal under this permit.

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### RCRA PART A APPLICATION CERTIFICATION

- The U.S. Department of Energy (DOE), through its Carlsbad Field Office, has signed as "owner
- and operator," and Nuclear Waste Partnership LLC, the Management and Operating Contractor
- 5 (MOC), has signed this application for the permitted facility as "co-operator."
- The DOE has determined that dual signatures best reflect the actual apportionment of Resource
- 7 Conservation and Recovery Act (RCRA) responsibilities as follows:
- The DOE's RCRA responsibilities are for policy, programmatic directives, funding and scheduling decisions, Waste Isolation Pilot Plant (WIPP) requirements of DOE generator sites, auditing, and oversight of all other parties engaged in work at the WIPP, as well as general oversight.
  - The MOC's RCRA responsibilities are for certain day-to-day operations (in accordance with general directions given by the DOE and in the Management and Operating Contract as part of its general oversight responsibility), including, but not limited to, the following: certain waste handling, monitoring, record keeping, certain data collection, reporting, technical advice, and contingency planning.
    - For purposes of the certification required by Title 20 of the New Mexico Administrative Code, Chapter 4, Part 1 (20.4.1 NMAC), Subpart IX, §270.11(d), the DOE's and the MOC's representatives certify, under penalty of law that this document and all attachments were prepared under their direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on their inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of their knowledge and belief, true, accurate, and complete for their respective areas of responsibility. We are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Nuclear Waste Partnership LLC

27 28 29 30	Owner and Operator Sign	nature: Title: for: Date:	Original signed by Todd A. Shrader  Manager, Carlsbad Field Office  U.S. Department of Energy  06/12/2017
31 32	Co-Operator Signature:	Title:	Original signed by Bruce C. Covert Project Manager

Date: 06/12/2017

for:

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APPENDIX B1
OTHER ENVIRONMENTAL PERMITS

3

Waste Isolation Pilot Plant
<a href="Draft">Draft</a> Hazardous Waste Permit
<a href="February 2018">February 2018</a> January 2016

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## Active Environmental Permits and Approvals for the Waste Isolation Pilot Plant as of June 2017

	Granting Agency	Type of Permit	Permit/Right of Way Number	Granted/ Submitted *	Expiration	Current Permit Status
1.	Department of the Interior, Bureau of Land Management	Right-of-Way for Water Pipeline	NM053809	08/17/83 (Transferred 05/15/06 to City of Carlsbad)	In Perpetuity	Active
2.	Department of the Interior, Bureau of Land Management	Right-of-Way for the North Access Road	NM055676	08/23/83	In Perpetuity	Active
3.	Department of the Interior, Bureau of Land Management	Right-of-Way for Railroad	NM055699	09/27/83	In Perpetuity	Active
4.	Department of the Interior, Bureau of Land Management	Right-of-Way for Dosimetry and Aerosol Sampling Sites	NM063136	07/03/86	12/31/40	Active
5.	Department of the Interior, Bureau of Land Management	Right-of-Way for Seven Subsidence Monuments	NM065801	11/07/86	None	Active
6.	Department of the Interior, Bureau of Land Management	Right-of-Way for Aerosol Sampling Site	NM077921	08/18/89	08/18/19	Active
7.	Department of the Interior, Bureau of Land Management	Right-of-Way for 2 Survey Monuments	NM082245	12/13/89	12/13/19	Active
8.	Department of the Interior, Bureau of Land Management	Right-of-Way for telephone cable	NM046092	09/04/81 (Valor Telecom of NM LLC)	09/04/11	Active Renewal In Process
9.	Department of the Interior, Bureau of Land Management	Right-of-Way for SPS 115 KV Powerline	NM043203	10/19/81 (Southwestern Public Service)	12/31/40	Active
10.	Department of the Interior, Bureau of Land Management	Right-of-Way for South Access Road	NM123703	01/27/10	12/31/39	Active
11.	Department of the Interior, Bureau of Land Management	Right-of-Way for Duval telephone line	NM060174	03/08/85 (Valor Telecom of NM LLC)	03/08/35	Active
12.	Department of the Interior, Bureau of Land Management	Right-of-Way for groundwater monitor wells/pads	NM108365	08/30/02	08/30/32	Active

PERMIT ATTACHMENT B Page B-17 of 52

	Granting Agency	Type of Permit	Permit/Right of Way Number	Granted/ Submitted *	Expiration	Current Permit Status
13.	Department of the Interior, Bureau of Land Management	Right-of-Way for Monitoring Well C-2664 (Cabin Baby)	NM107944	04/23/02	04/23/32	Active
14.	Department of the Interior, Bureau of Land Management	Right-of-Way for Wells C-2725 (H-4A), C-2775 (H-4B), & C-2776 (H-4C)	NM-6-5 Cooperative Agreement	04/27/78	None	Active
15.	Department of the Interior, Bureau of Land Management	Right-of-Way for Monitoring Wells C-2723 (WIPP-25), C-2724 (WIPP- 26), C-2722 (WIPP-27), C-2636 (WIPP-28), C-2743 (WIPP-29), & C-2727 (WIPP-30)	NM-6-5 Cooperative Agreement	07/14/78	None	Active
16.	New Mexico State Land Office Commissioner of Public Lands	Right-of-Way easement for accessing state trust lands in Eddy & Lea Counties	RW-25430	09/28/04	09/27/16	Inactive
17.	Department of Interior, Bureau of Land Management	Right of Way for Valor Telecom	NM113339	08/09/05 (Valor Telecom Inc)	12/31/34	Active
18.	Department of Interior, Bureau of Land Management	Right of Way for South Access Road Fence	NM094304	03/15/95	None	Active
19.	New Mexico State Land Office Commissioner of Public Lands	Right-of-Way for High Volume Air Sampler	RW-22789	10/03/85	10/03/20	Active
20.	New Mexico Environment Department Groundwater Quality Bureau	Discharge Permit	DP-831	07/29/14	07/29/19	Active
21.	New Mexico Environment Department Air Quality Bureau	Operating Permit for two backup diesel generators	310-M-2	12/07/93	None	Active
22.	New Mexico Environment Department-Petroleum Storage Tank Bureau	Storage Tank Registration Certificate	Registration Number 1767 Facility Number 31539	07/01/16	06/30/17	Active
23.	Office of New Mexico State Engineer	Monitoring Well Exhaust Shaft Exploratory Borehole	C-2801	02/23/01	None	Inactive

	Granting Agency	Type of Permit	Permit/Right of Way Number	Granted/ Submitted *	Expiration	Current Permit Status
24.	Office of New Mexico State Engineer	Monitoring Well Exhaust Shaft Exploratory Borehole	C-2802	02/23/01	None	Inactive
25.	Office of New Mexico State Engineer	Monitoring Well Exhaust Shaft Exploratory Borehole	C-2803	02/23/01	None	Inactive
26.	Office of New Mexico State Engineer	Monitoring Well	C-2811	03/02/02	None	Active
27.	Office of New Mexico State Engineer	Appropriation: WQSP-1 Well	C-2413	10/21/96	None	Active
28.	Office of New Mexico State Engineer	Appropriation: WQSP-2 Well	C-2414	10/21/96	None	Active
29.	Office of New Mexico State Engineer	Appropriation: WQSP-3 Well	C-2415	10/21/96	None	Active
30.	Office of New Mexico State Engineer	Appropriation: WQSP-4 Well	C-2416	10/21/96	None	Active
31.	Office of New Mexico State Engineer	Appropriation: WQSP-5 Well	C-2417	10/21/96	None	Active
32.	Office of New Mexico State Engineer	Appropriation: WQSP-6 Well	C-2418	10/21/96	None	Active
33.	Office of New Mexico State Engineer	Appropriation: WQSP-6a Well	C-2419	10/21/96	None	Active
34.	Office of New Mexico State Engineer	Monitoring Well AEC-7	C-2742	11/06/00	None	P&A
35.	Office of New Mexico State Engineer	Monitoring Well AEC-8	C-2744	11/06/00	None	P&A
36.	Office of New Mexico State Engineer	Monitoring Well Cabin Baby	C-2664	07/30/99	None	Active
37.	Office of New Mexico State Engineer	Monitoring Well DOE-1	C-2757	11/06/00	None	P&A
38.	Office of New Mexico State Engineer	Monitoring Well DOE-2	C-2682	04/17/00	None	Active
39.	Office of New Mexico State Engineer	Monitoring Well ERDA-9	C-2752	11/06/00	None	Active
40.	Office of New Mexico State Engineer	Monitoring Well H-1	C-2765	11/06/00	None	P&A

	Granting Agency	Type of Permit	Permit/Right of Way Number	Granted/ Submitted *	Expiration	Current Permit Status
41.	Office of New Mexico State Engineer	Monitoring Well H-2A	C-2762	11/06/00	None	P&A
42.	Office of New Mexico State Engineer	Monitoring Well H-2B1	C-2758	11/06/00	None	Active
43.	Office of New Mexico State Engineer	Monitoring Well H-2B2	C-2763	11/06/00	None	Active
44.	Office of New Mexico State Engineer	Monitoring Well H-2C	C-2759	11/06/00	None	P&A
45.	Office of New Mexico State Engineer	Monitoring Well H-3B1	C-2764	11/06/00	None	Active
46.	Office of New Mexico State Engineer	Monitoring Well H-3B2	C-2760	11/06/00	None	Active
47.	Office of New Mexico State Engineer	Monitoring Well H-3B3	C-2761	11/06/00	None	P&A
48.	Office of New Mexico State Engineer	Monitoring Well H-3D	C-3207	11/06/00	None	Active
49.	Office of New Mexico State Engineer	Monitoring Well H-4A	C-2725	11/06/00	None	P&A
50.	Office of New Mexico State Engineer	Monitoring Well H-4B	C-2775	11/06/00	None	P&A
51.	Office of New Mexico State Engineer	Monitoring Well H-4C	C-2776	11/06/00	None	Active
52.	Office of New Mexico State Engineer	Monitoring Well H-5A	C-2746	11/06/00	None	P&A
53.	Office of New Mexico State Engineer	Monitoring Well H-5B	C-2745	11/06/00	None	Active
54.	Office of New Mexico State Engineer	Monitoring Well H-5C	C-2747	11/06/00	None	Active
55.	Office of New Mexico State Engineer	Monitoring Well H-6A	C-2751	11/06/00	None	P&A

	Granting Agency	Type of Permit	Permit/Right of Way Number	Granted/ Submitted *	Expiration	Current Permit Status
56.	Office of New Mexico State Engineer	Monitoring Well H-6B	C-2749	11/06/00	None	P&A
57.	Office of New Mexico State Engineer	Monitoring Well H-6C	C-2750	11/06/00	None	Active
58.	Office of New Mexico State Engineer	Monitoring Well H-7A	C-2694	04/17/00	None	P&A
59.	Office of New Mexico State Engineer	Monitoring Well H-7B1	C-2770	11/06/00	None	Active
60.	Office of New Mexico State Engineer	Monitoring Well H-7B2	C-2771	11/06/00	None	P&A
61.	Office of New Mexico State Engineer	Monitoring Well H-8A	C-2780	11/06/00	None	Active
62.	Office of New Mexico State Engineer	Monitoring Well H-9A	C-2785	11/06/00	None	P&A
63.	Office of New Mexico State Engineer	Monitoring Well H-9B	C-2783	11/06/00	None	P&A
64.	Office of New Mexico State Engineer	Monitoring Well H-9C	C-2784	11/06/00	None	Active
65.	Office of New Mexico State Engineer	Monitoring Well H-10A	C-2779	11/06/00	None	Active
66.	Office of New Mexico State Engineer	Monitoring Well H-10B	C-2778	11/06/00	None	P&A
67.	Office of New Mexico State Engineer	Monitoring Well H-10C	C-2695	04/17/00	None	P&A
68.	Office of New Mexico State Engineer	Monitoring Well H-11B1	C-2767	11/06/00	None	P&A
69.	Office of New Mexico State Engineer	Monitoring Well H-11B2	C-2687	04/17/00	None	Active
70.	Office of New Mexico State Engineer	Monitoring Well H-11B3	C-2768	11/06/00	None	P&A

	Granting Agency	Type of Permit	Permit/Right of Way Number	Granted/ Submitted *	Expiration	Current Permit Status
71.	Office of New Mexico State Engineer	Monitoring Well H-11B4	C-2769	11/06/00	None	P&A
72.	Office of New Mexico State Engineer	Monitoring Well H-12	C-2777	11/06/00	None	P&A
73.	Office of New Mexico State Engineer	Monitoring Well H-14	C-2766	11/06/00	None	Active
74.	Office of New Mexico State Engineer	Monitoring Well H-15	C-2685	04/17/00	None	Active
75.	Office of New Mexico State Engineer	Monitoring Well H-16	C-2753	11/06/00	None	Active
76.	Office of New Mexico State Engineer	Monitoring Well H-17	C-2773	11/06/00	None	Active
77.	Office of New Mexico State Engineer	Monitoring Well H-18	C-2683	04/17/00	None	Active
78.	Office of New Mexico State Engineer	Monitoring Well H-19B0	C-2420	01/25/95	None	Active
79.	Office of New Mexico State Engineer	Monitoring Well H-19B1	C-2420	01/25/95	None	Active
80.	Office of New Mexico State Engineer	Monitoring Well H-19B2	C-2421	01/25/95	None	Active
81.	Office of New Mexico State Engineer	Monitoring Well H-19B3	C-2422	01/25/95	None	Active
82.	Office of New Mexico State Engineer	Monitoring Well H-19B4	C-2423	01/25/95	None	Active
83.	Office of New Mexico State Engineer	Monitoring Well H-19B5	C-2424	01/25/95	None	Active
84.	Office of New Mexico State Engineer	Monitoring Well H-19B6	C-2425	01/25/95	None	Active
85.	Office of New Mexico State Engineer	Monitoring Well H-19B7	C-2426	01/25/95	None	Active

	Granting Agency	Type of Permit	Permit/Right of Way Number	Granted/ Submitted *	Expiration	Current Permit Status
86.	Office of New Mexico State Engineer	Monitoring Well P-14	C-2637	01/02/99	None	P&A
87.	Office of New Mexico State Engineer	Monitoring Well P-15	C-2686	04/17/00	None	P&A
88.	Office of New Mexico State Engineer	Monitoring Well P-17	C-2774	11/06/00	None	P&A
89.	Office of New Mexico State Engineer	Monitoring Well P-18	C-2756	11/06/00	None	P&A
90.	Office of New Mexico State Engineer	Monitoring Well WIPP-12	C-2639	01/12/99	None	P&A
91.	Office of New Mexico State Engineer	Monitoring Well WIPP-13	C-2748	11/06/00	None	Active
92.	Office of New Mexico State Engineer	Monitoring Well WIPP-18	C-2684	04/17/00	None	Active
93.	Office of New Mexico State Engineer	Monitoring Well WIPP-19	C-2755	11/06/00	None	Active
94.	Office of New Mexico State Engineer	Monitoring Well WIPP-21	C-2754	11/06/00	None	P&A
95.	Office of New Mexico State Engineer	Monitoring Well WIPP-25	C-2723	07/26/00	None	P&A
96.	Office of New Mexico State Engineer	Monitoring Well WIPP-26	C-2724	11/06/00	None	P&A
97.	Office of New Mexico State Engineer	Monitoring Well WIPP-27	C-2722	11/06/00	None	P&A
98.	Office of New Mexico State Engineer	Monitoring Well WIPP28	C-2636	01/12/99	None	P&A
99.	Office of New Mexico State Engineer	Monitoring Well WIPP-29	C-2743	11/06/00	None	P&A
100.	Office of New Mexico State Engineer	Monitoring Well WIPP-30	C-2727	08/04/00	None	P&A

	Granting Agency	Type of Permit	Permit/Right of Way Number	Granted/ Submitted *	Expiration	Current Permit Status
101.	Office of New Mexico State Engineer	Monitoring Well H-6BR	C-3362	12/27/07	None	Active
102.	Office of New Mexico State Engineer	Monitoring Well H-15R	C-3361	12/27/07	None	Active
103.	Office of New Mexico State Engineer	Monitoring Well SNL-2	C-2948	02/14/03	None	Active
104.	Office of New Mexico State Engineer	Monitoring Well SNL-9	C-2950	02/14/03	None	Active
105.	Office of New Mexico State Engineer	Monitoring Well SNL-12	C-2954	02/25/03	None	Active
106.	Office of New Mexico State Engineer	Monitoring Well SNL-1	C-2953	02/25/03	None	Active
107.	Office of New Mexico State Engineer	Monitoring Well SNL-3	C-2949	02/14/03	None	Active
108.	Office of New Mexico State Engineer	Monitoring Well SNL-5	C-3002	10/01/03	None	Active
109.	Office of New Mexico State Engineer	Monitoring Well IMC-461	C-3015	11/25/03	None	Active
110.	Office of New Mexico State Engineer	Monitoring Well SNL-10	C-3221	07/26/05	None	Active
111.	Office of New Mexico State Engineer	Monitoring Well SNL-16	C-3220	07/26/05	None	Active
112.	Office of New Mexico State Engineer	Monitoring Well SNL-17	C-3222	07/26/05	None	Active
113.	US Environmental Protection Agency Region 6	Conditions of Approval for Disposal of PCB/TRU and PCB/TRU Mixed Waste at the US Department of Energy (DOE) Waste Isolation Pilot Plant (WIPP) Carlsbad, New Mexico	N/A	04/30/08	04/30/18	Active
114.	US Fish and Wildlife Service	Special Purpose – Relocate	MB155189-0	05/01/17	12/31/20	Active
115.	New Mexico Department of Game and Fish	Biotic Collection Permit	Authorization # 3293	02/02/17	12/31/19	Active
116.	Office of New Mexico State Engineer	Monitoring Well H-4bR	C-3404	01/13/09	None	Active
117.	Office of New Mexico State Engineer	Monitoring Well H-9bR	C-2783-POD2	07/14/10	None	Active

	Granting Agency	Type of Permit	Permit/Right of Way Number	Granted/ Submitted *	Expiration	Current Permit Status
118.	Office of New Mexico State Engineer	Monitoring Well C-2737	C-2737	09/27/00	None	Active
119.	Office of New Mexico State Engineer	Monitoring Well WIPP-11	C3112	12/27/07	None	Active
120.	Office of New Mexico State Engineer	Monitoring Well SNL-6	C-3151	02/10/05	None	Active
121.	Office of New Mexico State Engineer	Monitoring Well SNL-8	C-3150	02/10/05	None	Active
122.	Office of New Mexico State Engineer	Monitoring Well SNL-13	C-3139	12/17/04	None	Active
123.	Office of New Mexico State Engineer	Monitoring Well SNL-14	C-3140	12/17/04	None	Active
124.	Office of New Mexico State Engineer	Monitoring Well SNL-15	C-3152	02/10/05	None	Active
125.	Office of New Mexico State Engineer	Monitoring Well SNL-18	C-3233	10/06/05	None	Active
126.	Office of New Mexico State Engineer	Monitoring Well SNL-19	C-3234	10/06/05	None	Active
127.	Department of the Interior, Bureau of Land Management	Right-of-Way grant for SNL-18 and SNL-19 well pads	NM115315	03/21/06	12/31/35	Active
128.	Department of the Interior, Bureau of Land Management	Right-of-Way grant for SNL-11 and SNL-5	NM110735	10/17/03	10/17/33	Active
129.	Department of the Interior, Bureau of Land Management	Right-of-Way grant for SNL-12 well pad	NM109176	04/15/03	04/15/33	Active
130.	Department of the Interior, Bureau of Land Management	Right-of-Way grant for SNL-9 well pad	NM109175	04/15/03	04/15/33	Active
131.	Department of the Interior, Bureau of Land Management	Right-of-Way grant for SNL-2 well pad	NM109174	04/15/03	04/15/33	Active
132.	Department of the Interior, Bureau of Land Management	Right-of-Way grant for SNL-1 Access Road	NM109177	06/17/03	06/17/33	Active
133.	Department of the Interior, Bureau of Land Management	Right-of-Way for SPS 69KV Electric Distribution line	NM091163	12/16/94 (Southwestern Public Service)	12/15/24	Active

	Granting Agency	Type of Permit	Permit/Right of Way Number	Granted/ Submitted *	Expiration	Current Permit Status
134.	Office of New Mexico State Engineer	Monitor Well H-11b4R	C-2769-POD2	05/16/11	None	Active
135.	Office of New Mexico State Engineer	Monitor Well AEC-7R	C-3635	04/24/13	None	Active
136.	New Mexico State Land Office Commissioner of Public Lands	Right-of-Way easement for SNL-1 Access Road	RW-28535	08/27/03	08/27/38	Active
137.	New Mexico State Land Office Commissioner of Public Lands	Right-of-Way easement for SNL-3 Access Road	RW-28537	08/27/03	08/27/38	Active
138	Office of New Mexico State Engineer	Monitor Well H-12R	C-3749 POD1	06/24/14	None	Active
139	Department of the Interior, Bureau of Land Management	Right-of-Way grant for H-12R Access Road and well pad	NM-131916	06/19/14	12/31/43	Active
140	Office of New Mexico State Engineer	Monitor Well H-10cR	C-3851	07/09/15	None	Active

<sup>\*</sup>Non DOE grantee is noted P&A=Plugged and Abandoned

(APPENDIX B2 MAPS

1 2

Waste Isolation Pilot Plant
<a href="Draft">Draft</a> Hazardous Waste Permit
<a href="February 2018">February 2018</a> January 2016

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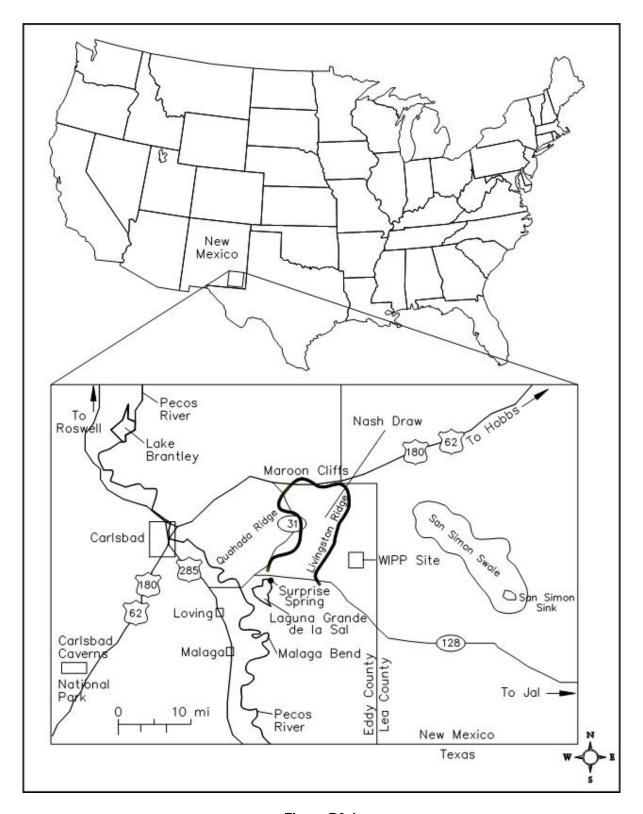


Figure B2-1
General Location of the WIPP Facility

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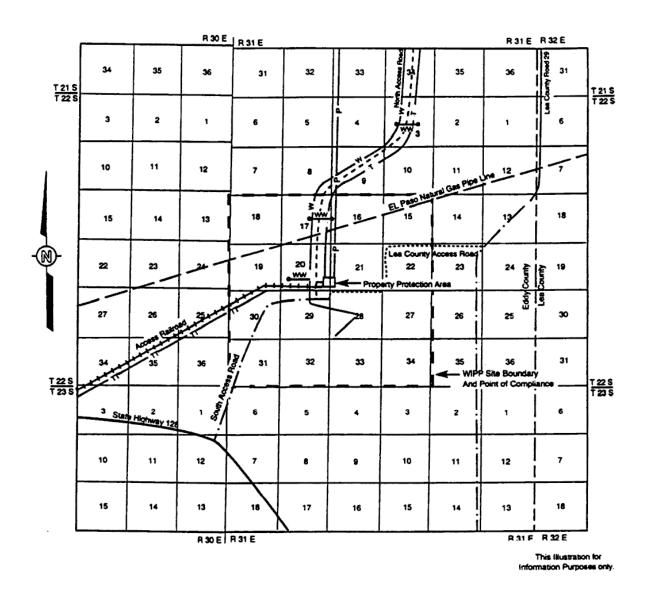


Figure B2-2 Planimetric Map-WIPP Facility Boundaries

## LEGEND

	WIPP Site Boundary 10,240 Acres.
_ w _	U.S. DOE Right of Way Number NM-53809. For Waterline, 50 Feet Wide. The DOE had Agreed with the City of Carlsbad to Allow the Individuals to Tap this Line Located within the North Access Road Right of Way.
	Stock Water Tanks and Tap Lines Connected to the Main WIPP Waterline.
	Southwestern Public Service Company Right of Way Number NM-43203 for Power 50 Feet Wide.
	General Telephone of the Southwest Right of Way for Telephone Line, 30 Feet Wide Located within the North access Road Right of Way.
	General Telephone of the Southwest Right of Way Number NM-60174 for Telephone Line, 30 Feet Wide, Located within the Railroad Right of Way.
********	U.S. DOE Right of Way Number NM-55675 for North Access Road, 170 Feet Wide.
	El Paso Natural Gas company Right of Way for Gas Pipeline, 30 Feet Wide in Section 16, 50 Feet Wide Elsewhere.
	U.S. DOE Right of Way Number NM-55699 for Access Railroad, 150 Feet Wide.  U.S. DOE Right of Way for Access Roads Includes Right of Way Number  NM-123703 for the South Access Road which is 140 Feet Wide.

# NOTES

- The Property Protection Area is a fenced area of approximately 35 acres. It contains all surface facilities with the exception of salt storage piles, parking lot, landfill and waste water stabilization lagoons.
- 2. Zone II overlies the maximum extent of the Area available for underground development.
- WiPP site boundary (WSB) provides a one mile buffer area around the area available for underground development.

Figure B2-2a Legend to Figure B2-2

# Replace this page with the Topographic Map from the earlier version of the draft Permit

Figure B2-3 Topographic Map APPENDIX B3 FACILITIES

1 2

Waste Isolation Pilot Plant
<a href="Draft">Draft</a> Hazardous Waste Permit
<a href="February 2018">February 2018</a> January 2016

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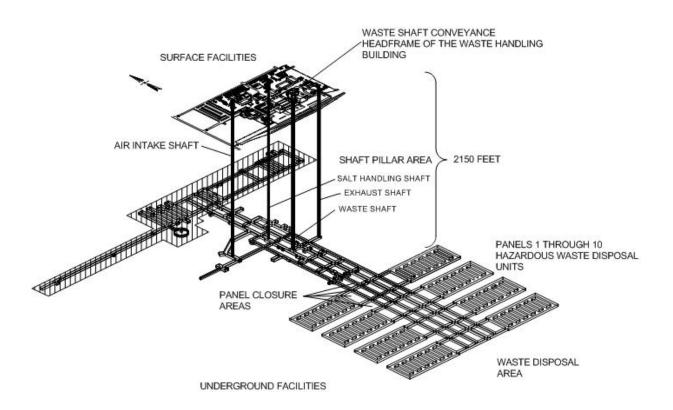
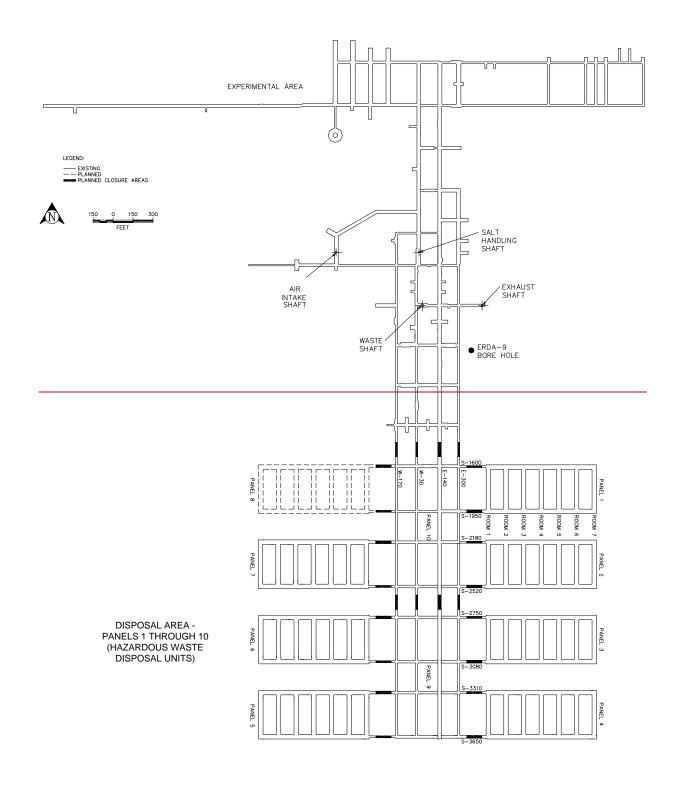


Figure B3-1
Spatial View of the WIPP Facility

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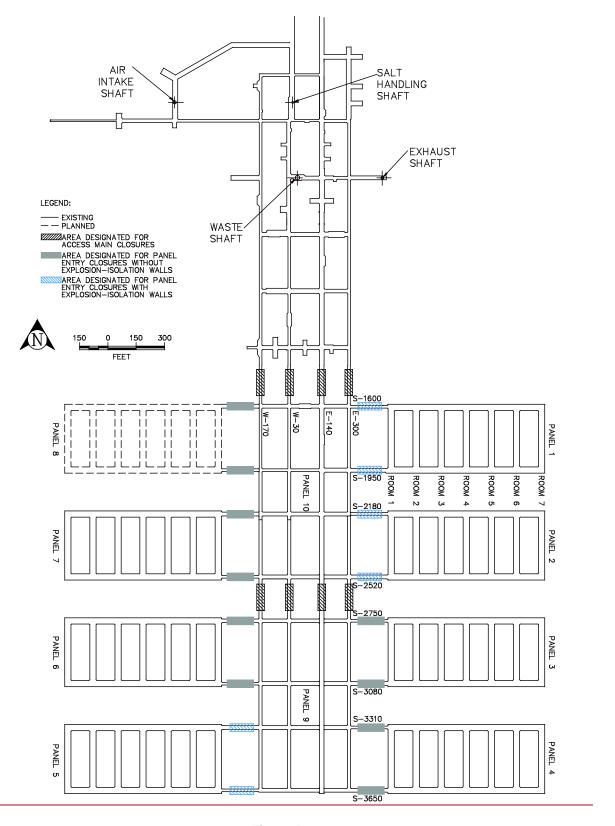


Figure B3-2 Repository Horizon

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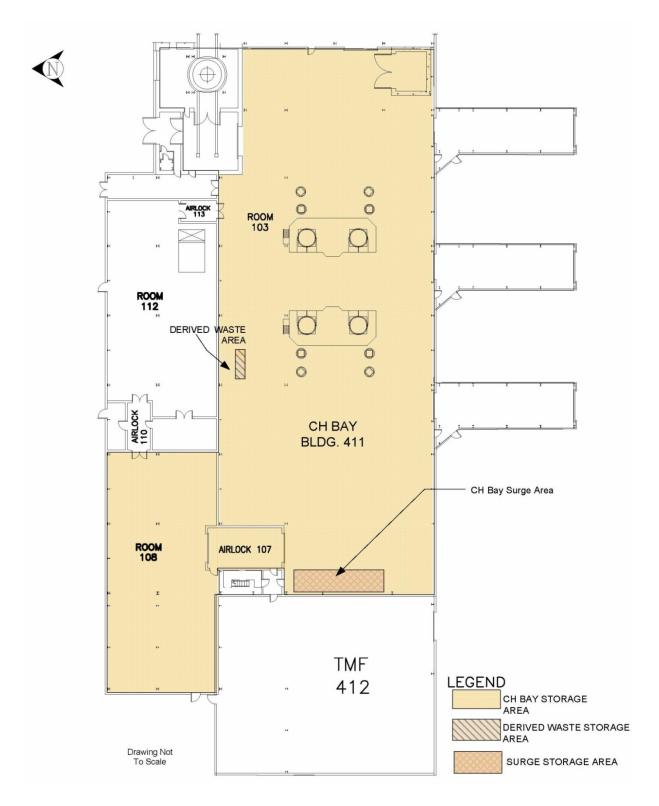


Figure B3-3
Waste Handling Building - CH TRU Mixed Waste Container Storage and Surge Areas

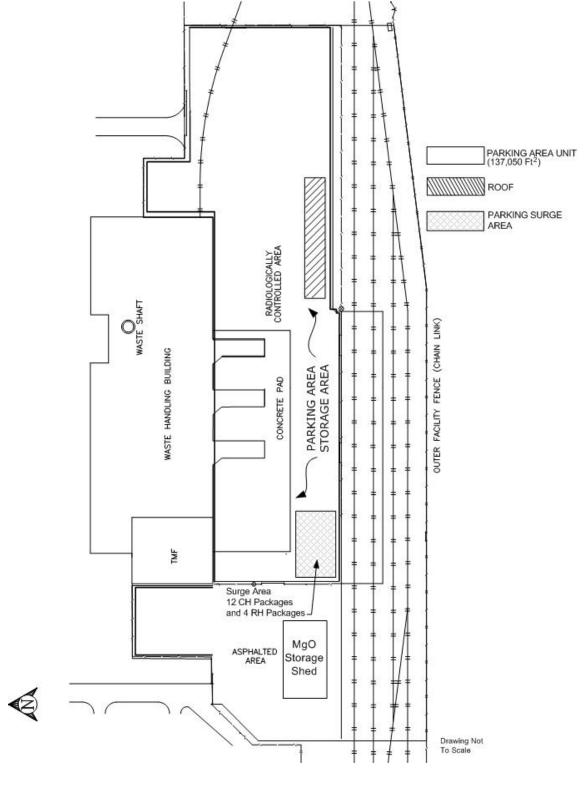


Figure B3-4
Parking Area-Container Storage and Surge Areas

APPENDIX B4 PHOTOGRAPHS

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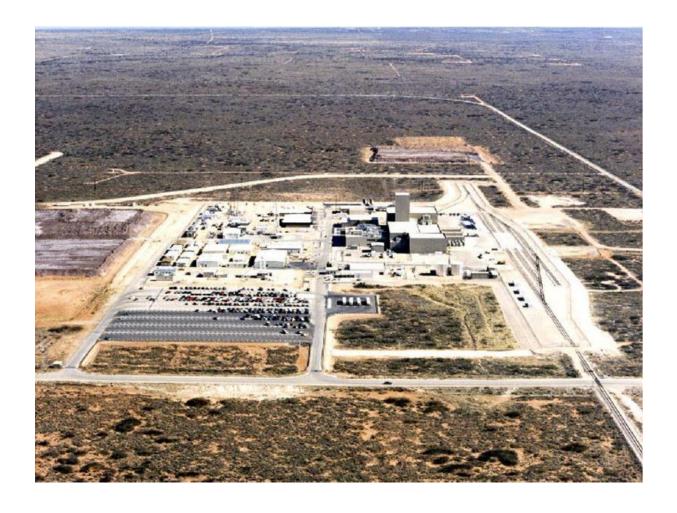


Figure B4-1 Aerial Photograph of the Waste Isolation Pilot Plant

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Figure B4-2 Underground - Panel One - Waste Disposal Room

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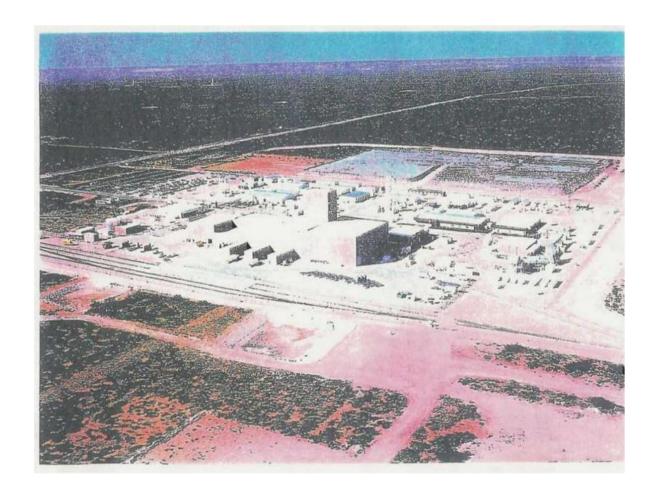


Figure B4-3 Aerial Photograph of the Waste Handling Building

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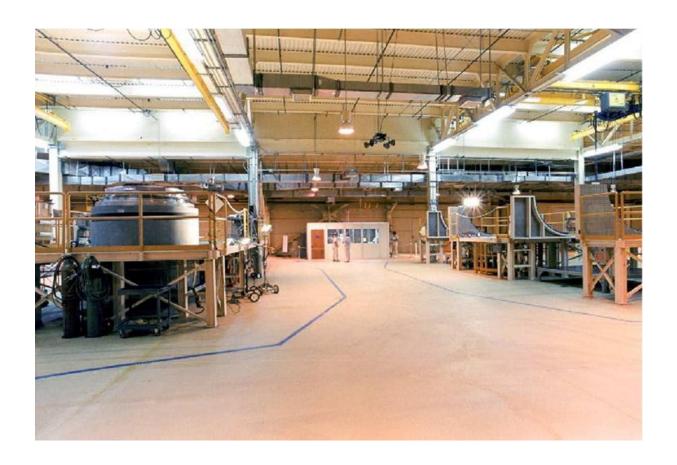


Figure B4-4
TRUDOCKs in CH Bay of the Waste Handling Building

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Figure B4-5
NE Corner of CH Bay of the Waste Handling Building

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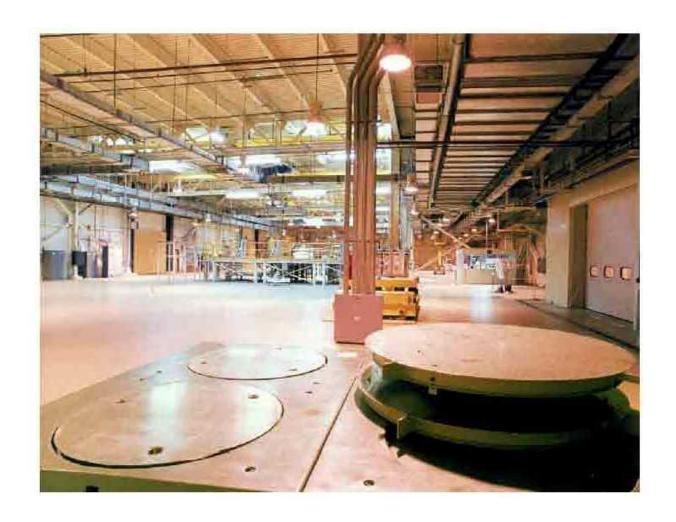


Figure B4-6
Westward View of CH Bay of the Waste Handling Building

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Figure B4-7
Waste Shaft Conveyance - Loading Facility Pallet with CH Waste, Waste Handling Building



Figure B4-8 RH Bay (Photo Taken July 2000)

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Figure B4-9 Cask Unloading Room and Bridge Crane

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Figure B4-10 Hot Cell

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Figure B4-11 Transfer Cell

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Figure B4-12 Facility Cask Loading Room and Facility Cask Rotating Device