

## MAXIMUM PERMITTED AIR EMISSIONS FROM SELECTED HERMISTON AREA SOURCES



State of Oregon  
Department of  
Environmental  
Quality

**Office of the Director  
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Program**

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Area Source	Maximum Permitted Air Emissions <sup>(1)</sup> (Tons/Year)				
	TSP <sup>(2)</sup>	NO <sub>x</sub> <sup>(3)</sup>	SO <sub>2</sub> <sup>(4)</sup>	CO <sup>(5)</sup>	VOC <sup>(6)</sup>
Lamb Weston (Food Processing Facility, Hermiston)	35	80	39	99	39
Umatilla Chemical Agent Disposal Facility (chemical weapons incineration facility) (July 2002 Air Permit)	<b>45</b>	<b>129</b>	<b>22</b>	<b>55</b>	<b>4.8</b>
Hermiston Generating (natural gas-fired co-generation plant, Hermiston)	64	272	11	447	34
Portland General Electric—Coyote Springs (natural gas-fired co-generation plant, Boardman)	48	287	39	452	26
Portland General Electric (coal-fired power Plant, Tower Road, Boardman)	1,056	12,687	30,450	767	92
<b>“Significant” Emission Rates<sup>(7)</sup></b>	<b>25</b>	<b>40</b>	<b>40</b>	<b>100</b>	<b>40</b>

- (1) Emission limits are from the “Plant Site Emission Limits” in each facility’s  
 (2) Air Contaminant Discharge Permit issued by the Oregon DEQ. Note that most sources do not emit pollutants at their maximum permitted rate.

- (2) TSP = Total Suspended Particulates  
 (3) NO<sub>x</sub> = Oxides of Nitrogen  
 (4) SO<sub>2</sub> = Sulfur Dioxide  
 (5) CO = Carbon Monoxide  
 (6) VOC = Volatile Organic Compound

(7) “Significant” Emission Rates reflect the pollutant emission levels at which certain regulatory provisions apply, such as requirements for installation of “lowest achievable” or “best available” pollution control technology. The rates given above are for “attainment” areas (areas of the state that are within attainment of air quality goals). Significant Emission Rates for “non-attainment” areas are often established at much lower rates than shown above.

## How many weapons are stored at the Umatilla Chemical Depot?

Chemical Warfare Agent	Item	Quantity	Pounds
HD (blister)	ton containers	2,635	4,679,040
GB (nerve)	155 mm projectiles	47,406	308,140
	8-inch projectiles	14,246	206,560
	M55 rockets	91,375	977,720
	M56 rocket warheads	67	720
	500 lb. bombs	27	2,920
	750 lb. bombs	2,418	531,960
	ton containers	4	7,104
VX (nerve)	155 mm projectiles	32,313	193,880
	8-inch projectiles	3,752	54,400
	mines	11,685	122,700
	M55 rockets	14,513	145,140
	M56 rocket warheads	6	60
	Spray tanks	156	211,540
	ton containers	1	1,776

### Fast Facts

There are three types of incinerators at the Umatilla Chemical Agent Disposal Facility; two liquid incinerators for disposal of liquid agent, a deactivation furnace to dispose of explosives and propellants as they are disassembled during the process and the metal parts furnace where bomb cases, emptied projectiles and other metal containers are destroyed.

All the chemical agent stored at the Umatilla Chemical Depot is stored in liquid form. Of the three types of agent, the GB (nerve) is considered the most volatile and rockets containing this agent will be incinerated first, followed by the VX munitions, then the blister (called mustard) agent ton containers.

**Oregon Department of Environmental Quality's Chemical Demilitarization  
Program Mission:**

*“Protect people and the environment by overseeing the safe destruction of the chemical agents at the Umatilla Chemical Depot as soon as possible.”*

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