

**Mechanical Sumps and Pits -- Permit Required Confined Space Entry Permit**

<b>1. Mechanical Sumps &amp; Pits ENTRY PROCEDURE AND PERMIT</b> <b>**All Shaded areas must be completed by Entry Supervisor or Entrant**</b>		<b>7. Communication method used by attendants and entrants (Check all that apply)</b>	
<b>2. Work to be Performed:</b>		<input type="checkbox"/>	Radio
		<input type="checkbox"/>	Voice
<b>3. Date Issued:</b> /        /  <b>Time Issued:</b> : <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.		<input type="checkbox"/>	Other:
		<b>8. Confined Space Rescue</b>	
<b>4. Permit Space Hazards (X = Potential Hazard or Testing Rqmt. )</b>		<b>9. Authorized Entrants (List by name or attach roster)</b>	
<input checked="" type="checkbox"/>	Oxygen - hazardous when less than or equal to 19.5% <b>OR</b> greater than or equal to 23.5 %.		
<input checked="" type="checkbox"/>	Flammable Gases or Vapors - hazardous when greater than 10% of LFL / LEL.		
<input checked="" type="checkbox"/>	Hydrogen Sulfide - hazardous when greater than 10 PPM		
	Carbon Monoxide - hazardous when greater than 50 PPM ( always look for when welding or near a fuel combustion source (cars, utility carts ,etc)		
	Other Toxics: _____		
<input checked="" type="checkbox"/>	Mechanical Hazards (Pneumatic, Hydraulic, Electrical, Chemical, Steam, Falling Objects, Etc.)		
	Engulfment Potential		
<input checked="" type="checkbox"/>	Physical Hazards - (bees, insects, spiders, heat during summer).		
	Confined Space Configuration, Layout or Arrangement		
<b>5. Additional Permits or Forms (Please attach if required)</b>			
Hot Work Permit: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A			
LOTO / Hazardous Energy Control Procedure: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A			
Other:			
<b>6. Equipment Required for Entry &amp; Work (Check box when complete)</b>		<b>11. Preparation for Entry (Check boxes when complete)</b>	
<input type="checkbox"/>	<b>PPE</b> Eye Protection, Body Harness, other PPE for heat if necessary (gloves, long sleeves, etc)	<input type="checkbox"/>	Notify affected department of service interruption and complete the Confined Space Entry Permit and any other required permits and forms.
<input type="checkbox"/>	<b>Atmospheric Testing</b> 4 Gas Meter required for testing, test atmosphere in sump/pit by checking the atmosphere at all levels from the bottom to the top of the space.	<input type="checkbox"/>	Inspect all required equipment, tools and PPE prior to entry. Barricade the area to prevent unauthorized entry or access. Setup necessary equipment for entry operations
<input type="checkbox"/>	<b>Respiratory Protection</b> Not required for this space under normal atmospheric conditions. If levels are outside limits, ventilate space before entry.	<input type="checkbox"/>	Ensure that all Hazardous Energy is isolated per the specific Hazardous Energy Control Procedure. All energy sources (steam, electrical, natural gas, hydraulic) within the sump/pit are fully controlled so that safe entry can be completed with no risk of energy release to the entrant.
<input type="checkbox"/>	<b>Ventilation Equipment</b> Full ventilation is required before and during entry unless the space is proven to be free of atmospheric hazards or no atmospheric changes will occur due to work operations or sump/pit conditions.	<input type="checkbox"/>	Sign in Authorized Entrants in Step 9 and Sign in Attendants in Step 10.
<input type="checkbox"/>	<b>Rescue Equipment</b> Set up rescue tripod with 4 way hauling system to pull out entrant in the event of emergency. Entrant must wear harness and be connected to the 4 way hauling system.	<input type="checkbox"/>	Take a preliminary atmospheric reading with approved 4 gas meter and record reading on Step 12. Atmosphere should be continuously tested during entry. Periodically record sample readings in Step 12. Air ventilation is required before and during entry into the tank.
		<input type="checkbox"/>	Upon eliminating or controlling all hazards and the Entry Supervisor signing Step 13, proceed to make entry.

	Time:	Time:	Time:	Time:	Time:	Time:
<b>12. Atmosphere Testing Record Acceptable Conditions</b>	Entry #1 Results	Entry #2 Results	Entry #3 Results	Entry #4 Results	Entry #5 Results	Entry #6 Results
CH4 - Less than 10% of LEL / LFL						
OXY - Oxygen Range - Minimum allowable = 19.6% to Maximum allowable = 23.4%						
H2S - Hydrogen Sulfide - < than 10 PPM						
CO - Carbon Monoxide - < than 35 PPM						
Other Toxic:						
<b>Tester Initials</b>						

**13. Authorization by Entry Supervisors**  
I certify that all required precautions have been taken and necessary equipment is provided for safe entry and work in this mechanical sump/pit confined space.

<b>Printed Name</b>	<b>Signature</b>	<b>Date</b>	<b>Time</b>	<input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
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**14. Permit Cancellation (Complete at the end of job not to exceed 24 hours)**

	<b>Date</b>	<b>Time</b>	<input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
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**This permit must be posted at the job site -- One Copy to Dept File and One Copy to EH&S Office (Fax 7-5302 or EHS Building)**