

Stormwater Manhole (Greywater Manhole)-- Permit Required Confined Space Entry Permit

1. Stormwater manhole -- ENTRY PROCEDURE AND PERMIT **All Shaded areas must be completed by Entry Supervisor or Entrant**		7. Communication method used by attendants and entrants (Check all that apply)	
2. Work to be Performed:		<input type="checkbox"/> Radio	<input type="checkbox"/> Voice
3. Date Issued: / /		<input type="checkbox"/>	<input type="checkbox"/>
Time Issued: : <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.		Other:	
		8. Confined Space Rescue	
		<input type="checkbox"/> The assigned confined space attendant is responsible for evacuating entrants in the event of an emergency by means of vocal communication or retrieval equipment used for the entry. At no time will the attendant enter the confined space. In the event the attendant is unable to evacuate the entrant(s) the Charlotte Fire Department will be notified by UNC Charlotte Police Dispatch at 704-687-2200 to provide rescue assistance. Upon the arrival of rescue personal the attendant should brief the rescuers of any notable information.	

4. Permit Space Hazards (X = Potential Hazard or Testing Rqmt.)		9. Authorized Entrants (List by name or attach roster)	
<input checked="" type="checkbox"/> Oxygen - hazardous when less than or equal to 19.5% OR 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			
<input checked="" type="checkbox"/> 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: _____			
Mechanical Hazards (Pneumatic, Hydraulic, Electrical, Chemical, Steam, Falling Objects, Etc.)			
<input checked="" type="checkbox"/> Engulfment Potential			
<input type="checkbox"/> Physical Hazards - (bees, insects, spiders, heat during summer).		10. Authorized Attendants (List by name)	
<input checked="" type="checkbox"/> Confined Space Configuration, Layout or Arrangement			

5. Additional Permits or Forms (Please attach if required)

Hot Work Permit: YES NO N/A

LOTO / Hazardous Energy Control Procedure: YES NO N/A

Other:

6. Equipment Required for Entry & Work (Check box when complete)

<input type="checkbox"/> PPE	Eye Protection, Tyvek Suit, Rubber Gloves, Rubber Boots, Body Harness, Entrant must have HEPATITIS B series if any sanitary wastewater is discharged to storm sewer
<input type="checkbox"/> Atmospheric Testing	4 Gas Meter is required in all Permit Required Confined Spaces. Continuous monitoring is required throughout the duration of the entry.
<input type="checkbox"/> Respiratory Protection	Not required for this space under normal atmospheric conditions. If levels are outside limits, ventilate space before entry.
<input type="checkbox"/> Ventilation Equipment	Check atmosphere by prior to and during entry. Ventilation must be used on this space if sewer gas is present
<input type="checkbox"/> Rescue Equipment	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

11. Preparation for Entry (Check boxes when complete)

<input type="checkbox"/>	Notify affected departments of service interruption and complete the Confined Space Entry Permit and other related permits or forms. (Service on a storm water manhole or catch basin should be completed on a day with no precipitation or chance of precipitation. Stormwater coming into a manhole / catch basin can be a serious hazard during entry. If necessary, use a pump within the stormwater manhole to remove excess water.)
<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"/>	Ensure that all Hazardous Energy is isolated per the specific Hazardous Energy Control Procedure.
<input type="checkbox"/>	Sign in Authorized Entrants in Step 9 and Sign in Attendants in Step 10.
<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. Ventilate as necessary. Test atmosphere from the bottom to the top of the manhole so that all levels are checked.
<input type="checkbox"/>	Upon eliminating or controlling all hazards and the Entry Supervisor signing Step 13, proceed to make entry.

12. Atmosphere Testing Record Acceptable Conditions	Time:	Time:	Time:	Time:	Time:	Time:
	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:						
Tester Initials						

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 stormwater manhole confined space.

Printed Name	Signature	Date	Time	<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)

Date	Time	<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)