Sanitary Sewer Manholes Permit Required Confined Space Entry Permit											
1. Sanitary Sewer Manholes Entry Procedure and Permit **All shaded areas must be completed by the Entry Supervisor or Entrant**											
2. Work t	o be	Performed and L	ocation:			3. Date Issued: / /					
						Time Issued: : □ a.m. □ p.m.					
4. Permit	Spac	e Hazards (X = F	Potential Hazard o	r Testing Requireme	nt)						
Х	Oxygen - hazardous when less that than or equal to 23.5 %.			an or equal to 19.5%	OR greater			cal Hazards (Pneuma alling Objects, Etc.)	atic, Hydraulic, Electri	ical, Chemical,	
X Flammable Gases or Vapors - haz LFL / LEL.			ardous when greater	than 10% of	Х	Engulfme	ent Potential				
X Hydrogen Sulfide - hazardous whe			en greater than 10 PF	er than 10 PPM		Physical	Physical Hazards - (bees, insects, spiders, heat during the summer)				
X Carbon Monoxide - hazardous when for when welding or near a fuel comb					Х	Confined	Confined Space Configuration, Layout or Arrangement				
Other Toxics:											
5. Additi	onal	Permits or Form	ıs (Please attach								
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)											
				Tyvek suit, rubber gloves, rubber boots, and body harness.							
			quired for testing. Test atmosphere in manhole by using stratified method of checking atmosphere at different levels within tinuous monitoring is required throughout the duration of the entry.								
			this space under normal atmospheric conditions. If contaminant levels are outside limits, ventilate space before entry.								
			ere by 4-gas meter prior to and during entry. Ventilation must be used on sanitary sewer manholes due to sewage gas. and downstream manhole covers, if possible, to help improve the fresh air ventilation of the sewer system.								
□ Rescu	ıe Equ	uipment		ripod with 4-way haul e 4-way hauling syst		out entra	nt in the even	t of an emergency. E	ntrant must wear har	ness and be	
7. Commu	unicat	ion method used	by attendants and	entrants (Check all that apply) 8. Confined Space Rescue					ant in reaponaible for a	vocuoting entrents in	
	Rad	dio			the event of a	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					
□ Voice						space. In the Charlotte Fire	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				
Other						personnel, the attendant should brief the					
9. Author	rized	Entrants (List by	name)			10. Autho	orized Attend	ants (List by name)			
11. Prepa	aratio	n for Entry (Chec	k boxes when cor	mplete)	olete)						
	Notify affected departments of service interruption and complete the Co						Confined Space Entry Permit and other related permits or forms. Service on a sanitary tation or chance of precipitation. Storm water coming into the sanitary sewer system the sanitary manhole to remove excess water.				
			ools and PPE prior to entry. Barricade the area to prevent unauthorized entry or access. Setup necessary equipment for								
Ensure that all hazardous energy				is isolated per the specific Hazardous Energy Control Procedure. If possible, stop water discharges to the sanitary sewer ervicing period. De-energize any pump equipment that discharges to the sewer prior to making entry into the sewer.							
		Open upstream and downstream manhole covers, if possible, to help improve the fresh air ventilation of the sewer system. 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.									
		Upon eliminating or controlling all hazards and the Entry Supervisor signing Step 13, proceed to make entry.									
12. Atmosphere Testing Record Acceptable Conditions			Pre-Entry Results	Entry #1 Result	s Entry	/ #2 Results	Entry #3 Results	Entry #4 Results	Entry #5 Results		
Time of Sampling											
CH ₄ – Methane - Less than 10% of LEL / LFL											
O ₂ - Oxygen Range - Minimum allowable = 19.6% to Maximum allowable = 23.4%											
H ₂ S - Hydrogen Sulfide - < than 10 PPM											
CO - Carbon Monoxide - < than 35 PPM											
Other To	xic:										
Tester In											
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 sanitary sewer manhole confined space.										ed space.	
Printed N				gnature				Date	Time	□a.m. □p.m.	
14. Perm	it Car	ncellation (Comp	lete at the end of	job not to exceed 2	24 hours)		ı	Date	Time	□a.m. □p.m.	
This permit must be posted at the job site One Copy to Department's File and One Copy to EHS Office (Fax 7-5302 or EHS Building)											