SITE AND SAFETY PLAN FOR

' UNDERGROUND STORAGE TANK- REPAIRS, REMOVAL, INSTALLATIONS '

· INVESTIGATION/REMEDIATION OF CONTAMINATED SITES · MONITORING WELL & SOIL BORING ·

As indicated throughout the plan, selected sections should only be filled out by people with technical expertise in health and safety issues. In addition, State organizations using this plan should set up a system to ensure that: (1) The plan is used properly; and (2) staff follows proper safety procedures. Attach copies of employee certification in hazardous waste/hazardous materials/underground storage tanks. Certifications are for employees who will be working at the job site. All selections are to be completed as appropriate.

PART I - (Sections I-IV) should be completed prior to the site visit and turned in with permit application.

SECTION I. GENERAL SITE INFORMATION SITE NAME AND ADDRESS: CONTACT PERSON AND PHONE NUMBER:

SITE IDENTIFICATION NUMBER:

PROPOSED DATE(S) OF SITE WORK:

SECTION II. DESCRIPTION OF ACTIVITY

New Tank Installation	Tank Closure
Tank/Pipe Removal	Tank/Pipe Disposal
Site Investigation/Mitigation	Tank/Pipe Repair
Leak Detection Testing	Installation of Monitor Wells/Sampling
Other	

PROVIDE A BRIEF NARRATIVE DESCRIPTION OF THE PROPOSED ACTIVITIES:

SECTION III. SPECIFIC SITE INFORMATION

SPECIFIC TANK SYSTEM INFORMATION:

Age/Size/Capacity of Tanks and

Piping:

Contents of Tank:

Other (Specify):

TYPE OF SITE	
CHECK ALL APPROPRIATE:	
Active	TSDF
Inactive	R & D Facility
Industrial facility	Military base
Gas Station	Other (Specify)
RELEASE HISTORY	
No evidence of leaks or soil contamination	n Suspected or known leaks and soil
contamination	
Known groundwater contamination	
BACKGROUND AND DESCRIPTION OF ANY	PREVIOUS INVESTIVATIONS OR INCIDENCE:
BACKGROUND INFORMATION STATUS:	COMPLETE - INCOMPLETE
SECTION IV. POTENTIAL HEALTH AND SAFE	TY HAZARDS
ANTICIPATED PHYSICAL HAZARDOUS DESCRIBE)	OF CONCERN: (CHECK ALL THAT APPLY AND
Heat (high ambient temp.)	Heavy equipment
	Physical injury and trauma
Noise	resulting from moving machinery
Oxygen depletion	
Asphyxiation	General construction
Excavation	Physical injury and trauma
Cave-ins	Electrical Hazards
Falls, trips, slipping	
Handling and transfer	Confined space entry
of petroleum products	Explosions
Fire Explosions	Other (Specify):
ANTICIPATED BIOLOGICAL HAZARDS: (LI	
Snakes	Poisonous plants
Insects	Other
Insects Rodents	Other
Rodents	impact Health and Safety – e.g., power lines, integrity of dikes,
Rodents	

ANTICIPATED CHEMICAL HAZARDS: (LIST BELOW ALL CHEMICALS PRESENT ON SITE; ATTACH MATERIAL SAFETY DATA SHEETS-MSDS)

1.	
2.	
3.	
4.	
5.	
6.	
-	

PART II Section V should only be completed by persons with technical expertise in health and safety.

SECTION V. EVALUATION OF POTENTIAL HAZARDS

CHEMICALS OF CONCERN			
	Highest Observable		Symptoms/Effects of
Chemical	Concentration(media)	PEL/TLV	Acute Exposure

PART III Sections VI and VII should be completed by the applicant prior to the site visit.

SECTION VI. METHODS TO CONTROL POTENTIAL HEALTH AND SAFETY HAZARDS

MONITORING INSTRUMENTATION: (NOTE: MONITORING INSTRUMENTS MUST BE USED FOR ALL OPERATIONS UNLESS APPROPRIATE RATIONALE OR RESTRICTIONS ARE PROVIDED)

Organic Vapor Analyzer
 Photoionization Detector
 Combustible Gas Indicator (CGI)
 Oxygen Meter
 Hydrogen Sulfide Meter
 Detector Tubes (specify)
 Other, specify (toxic gas, air sampling pumps, etc.)

IF MONITORING INSTRUMENTS ARE NOT USED, SPECIFY RATIONALE OR JUSTIFICATION <u>OR</u> ACTICITY/AREA RESTRICTIONS.

ACTION LEVELS (breathing zone):

Combustible Gas Indicator

0-10%	LEL	No Explosion Hazard
10-25%	LEL	Potential Explosion Hazard, Notify Site Health and Safety Officer
>25%	LEL	Explosion Hazard; Interrupt Task/Evacuate

Oxygen Meter

<21.0%	O_2	Oxygen Normal
<21.0%	O_2	Oxygen Deficient; Notify Site Health and Safety Officer
<19.5%	O_2	Oxygen Deficient; Interrupt Task/Evacuate

ACTION LEVELS (breathing zone)_____

Photo: Detect	ionization tor	Specify:		
	11.7 ev			
	10.2 ev			
	9.8 eve			
Type:				
Flame Detect	Ionization tor	Specify:		
Type:				
Detect	tor Tubes	Specify:		
Type:				
Type:				
Type:				
PERS	ONAL PROTECTIVI	E EQUIPMENT: List all app	licable items	
		Minimum personal p	protective equipment	
2. 3. 4.	Hardhat Safety glasses/goggle Steel toed/shank shoe Flame retardant cover Hearing protection (m	s or boots ralls		
Is add	itional PPE required?	Yes see below	No	
PERS			Full face respirators type of cartridge:	

 Rubber boots Over boots Surgical (inner) gloves Butyl/neoprene/viton/nitrile/outer gloves 	 SCBA/SAR ELSAs Decontamination/eyewash/hand wash es Other (specify)
SECTION VII. EMERGENCY INFORMATION	
Emergency Contact:	
Emergency Contact: Fire/Rescue:	
Ambulance:	
Police:	
Hazardous Waste/	
Material Response Units:	
Hazardous Waste/Material Response Units:	
Health and Safety Director:	
Poison Control Center:	
Onsite medical facility (clinic): Yes No	Facility health and safety officer: Yes
No	
Name:	Phone Number:
Hospital Name and Address: Directions to hospital (include a map):	
Directions to nospital (include a map)	

PART IV.

SECTION VIII. PLAN APPROVAL

Plan prepared by:		
	Signature	(Date)
Plan approved by:		
r ian approved ey.	Signature	(Date)
Plan approved by:		
•••••	Signature	(Date)

HEALTH AND SAFETY REMINDERS

Activity	Potential Hazard
Is excavation going to be performed?	If so, hazards associated with construction machinery are possible.
Is excavation in a "known" clean area?	If not, toxic exposure could occur.
Have underground utilities and overhead power lines been identified and marked?	If not, the potential for electrocution, toxic Exposure and flooding exist.
Are excavations shored/supported properly?	If not, slope failure could result in physical injury and asphyxiation
Has air monitoring been conducted in the excavation prior to entrance?	If not exposure to toxic chemicals explosive and oxygen deficient atmospheres could occur.
Is the crane (or other lifting equipment) designed for the specific lift in question at the given boom angle?	If, not catastrophic equipment failure could occur.
Is the wire used for the lift appropriate and has it been inspected for integrity?	If not, wire breakage can occur, resulting in serious injury or fatality.
Is the tank integrity testing being performed correctly? Is pressurization to the maximum of 5 psi? Has the integrity of the pressure gauge been checked? Is someone assuring that the gauge is functioning properly (not sticking)?	If not, over pressurization could lead to tank rupture and subsequent injury.
Is entry/work in a confined area being performed? Is it necessary to enter sewers, manholes, basements, excavations, tanks?	If so, potential hazards associated with injury, exposure, fire/explosion, asphyxiation and biological hazard exists.
Is appropriate monitoring being performed prior to and during confined space entry/work?	If not, potential for fire/explosions, asphyxiation and toxic exposure potential exist.
Is product handling/transfer being performed?	If so, the potential for fire/explosion, toxic exposure and spills exist.
Is appropriate caution being taken to eliminate all sources of sparks including static electricity? Have personnel working in potential explosive atmospheres left all potential spark producing materials (lighters, matches, keys, etc.) behind?	If not, incidental sparks could initiate a fire/explosion. If not, the potential for fires, explosions, and toxic exposure exists.
Is appropriate monitoring being performed during product transfer?	If not, the potential for exposure exists.
Is appropriate protective clothing being used to prevent exposures? Is the UST inert or ventilated?	If not, the potential for explosion, fire and asphyxiation exist.