


	CONFINED SPACE HAZARD ASSESSMENT		HA # 10
	CONFINED SPACE NAME: 14 th Street Plaza Fountain Pit	ID # N/A	LOCATION: 14 th Street Plaza

Confined Space?	YES	
YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> Enclosed or partially enclosed?		
YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> Limited or restricted entry/exit?		
YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> Intended for continuous human occupancy?		
YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> Large enough that a worker can enter?		

SPACE INFORMATION/DETAILS (IN OPERATION):			
SPACE DESCRIPTION: Below ground vertical shaped pit. Access point for maintenance of the 14 th street plaza fountain.			
CONTENTS: Piping (copper, PVC) containing municipal potable water (contains dilute chlorine in sub ppm concentration), gate valves and isolation valves. Pipes run through the space – no pipes terminate in the space. <i>Equipment:</i> None			
PROCESS/FUNCTION/USE DESCRIPTION: Storage pit for piping and valves for the 14 th Street Plaza Fountain Pond.			
PHYSICAL CHARACTERISTICS: Vertical rectangular shaped pit			
DIMENSIONS: Approximate range (feet - 'ft'): 4 ft (W) x 8 ft (L) x 8 ft (D)		VOLUME: 256 ft ³	
SPACE MATERIAL: Concrete			
ENTRY CHARACTERISTICS: Bilco steel double hatch door			
LOCATIONS: 1 – top entry		SIZE: 3 ft x 6 ft	
SECURING MECHANISM: Gravity			
ADJACENT VESSELS/SPACES/PIPING:			
<u>NAME OF SPACE/PIPE</u>	<u>CONTENTS</u>	<u>TEMPERATURE</u>	<u>PRESSURE</u>
Inlets (2" to 3" Ø)	Water	No concern	No concern
Outlets (2" to 3" Ø)	Water	No concern	No concern

SCOPE OF WORK:
This Hazard Assessment (HA) refers to entry for the purpose of inspection and minor repairs with manual tools on valves/piping. Works tasks are less than 15 minutes. <i>Hot work and other atmospheric contaminant generating activities are not included in this Hazard Assessment.</i>

HAZARDOUS ATMOSPHERIC RATING (LOW, MOD. HIGH)	Low	JUSTIFICATION: No contaminants present in the space and no contaminant generating tasks will occur during the entry
COMPLETED BY:	Prepared by: Peter Bergholz, BSc, CIH, AMEC, November 2012 Reviewed by: Victor Leung, MSc, CIH, ROH, CRSP, AMEC, November 2012	INFO. SOURCE: Paul Elsoff & Richard Howard

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CONFINED SPACE NAME:

ID #

LOCATION:

HA # 10

14th Street Plaza Fountain Pit

N/A

14th Street Plaza

DATE: November 2012

HAZARDS		UNDISTURBED SPACE POTENTIAL HAZARDS	WORK TASKS POTENTIAL HAZARDS	CONTROL MEASURES
ATMOSPHERE	Oxygen (O ₂) Deficiency	No	No	
	O ₂ Enrichment	No	No	
	Chemical	No	No	
	Biological	Yes Bacteria/fungi growth/sludge is possible in spaces that are wet or are not opened for prolonged periods.	No	If required and if practicable, rinse space prior to entry if space contains visible amounts of bacteria/fungi/sludge. If required, remove water/sludge from outside the space at all times with sucker truck. General PPE: Coveralls, safety boots, work gloves and safety glasses with side shields.
	Fire/Explosion	No	No	
SAFETY	Structural Hazard	No	No	
	Engulfment	No	No	
	Entrapment	No	No	
	Electrical	No	No	
	Access/Egress	Yes No fixed ladder present	No	Portable ladder required. Maintain 3 points of contact on the ladder at all times.
	Fall	No	No	
	Slip/Trip	Yes Interior of space and floor surface may be wet and slippery.	No	Wear General PPE (safety boots) and work with care.
	Visibility/Light Level	Yes Insufficient lighting	No	Portable lighting (flashlight or portable light with GFCI) required.
	Baffles/Internal Arrangement	Yes Piping present inside space	No	Work with care
	Floor Openings in Space	No	No	
PHYSICAL	Noise/Vibration	No	No	
	Temperature	Yes Entry into space may occur during hot/cold weather conditions (space is located outside).	No	Wear General PPE and dress appropriate for outside weather conditions. Provide heat stress awareness sessions to work crews if working during hot summer days.
	Non/Ionizing Radiation	No	No	

**HAZARDOUS
ATMOSPHERIC RATING
(LOW, MOD. HIGH)**

Low

JUSTIFICATION: No contaminants present in the space and no contaminant generating tasks will occur during the entry

**COMPLETED
BY:**

Prepared by: Peter Bergholz, BSc, CIH, AMEC, November 2012
Reviewed by: Victor Leung, MSc, CIH, ROH, CRSP, AMEC, November 2012

**INFO.
SOURCE:**

Paul Elsoff & Richard Howard

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HAZARDS		UNDISTURBED SPACE POTENTIAL HAZARDS	WORK TASKS POTENTIAL HAZARDS	CONTROL MEASURES
	Laser	No	No	
OTHERS	Ingestion/Skin Contact Hazard	No	No	
	Mechanical Hazard	No	No	
	Traffic Hazard	Yes Fountain pit exists in public location behind trees and shrubs.	No	Entrance to space must be physically isolated from pedestrian traffic. Standby person must monitor pedestrian traffic in the area.
	Hydraulic/ Pneumatic Hazard	No	No	

CONTROL MEASURES REQUIRED:	
Confined Space Permit:	Yes
Atmospheric Testing:	Gas monitor with sensors for O ₂ , LEL, CO & H ₂ S.
Ventilation Requirements:	Not required as per OHSR 9.31 – continuous atmospheric monitoring will be conducted.
PPE Requirements:	General PPE: Coveralls, safety boots, work gloves and safety glasses with side shields.
Lockout/Isolation:	Space must be isolated and locked-out prior to entry.
Standby Person:	Yes, at or near entrance
Communication Procedures:	Radio, voice
Rescue Procedures:	Standby person calls 911 and calls Entry Supervisor. Entry Supervisor will respond to scene. Self rescue (if possible) or entry rescue by Standby Person with assistance from Entry Supervisor.
Required Rescue and Safety Equipment	Two-way radio, cellular telephone, tripod, winch, harness (worn) and lifeline – required to lift the entrant out of the space
Other:	If required and if practicable, rinse space prior to entry if space contains visible amounts of bacteria/fungi/sludge. If required, remove water/sludge from outside the space at all times with sucker truck. Portable ladder required. Maintain 3 points of contact on the ladder at all times. Portable lighting (flashlight or portable light with GFCI) required. Wear General PPE and dress appropriate for outside weather conditions. Provide heat stress awareness sessions to work crews if working during hot summer days. Entrance to space must be physically isolated from pedestrian traffic. Standby person must monitor pedestrian traffic in the area.

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