

PERMIT – REQUIRED CONFINED SPACE PROGRAM**PERMIT - REQUIRED CONFINED SPACE PROGRAM****SECTION I - GENERAL INFORMATION****A. Purpose:**

It is the responsibility of the Town of Collierville to provide the employees a place of employment which is free from recognized hazards that may cause death or serious harm. In providing services to the citizens of the Town of Collierville, employees may be required to enter spaces considered hazardous. This procedure is designed to provide the minimum safety requirements in accordance with the Occupational Safety and Health Administration's (OSHA) Confined Space Standard, 1910.146.

B. Coverage:

The policy is intended to protect all workers from toxic, explosive or asphyxiating atmospheres and from possible engulfment from small particles such as liquids, grain, or sawdust. Those high-risk occupations include but are not limited to:

1. Paramedics and Emergency Medical Technicians;
2. Public Works Employees;
3. Water and Wastewater Employees;
4. Any other employee deemed to be at high risk per the permit-required confined space determination.

Each confined space entry site must also have Attendants and Authorized Entrants. The Attendant is an individual stationed outside one or more permit spaces, who monitors the Authorized Entrant and who performs all attendants' duties in the permit space program. The Authorized Entrant is a person who is authorized to enter a permit space.

C. Definitions:

1. **Acceptable Entry Conditions:** The conditions that must exist in a permit space to allow entry and to insure that employees involved can safely enter and work within the space.
2. **Confined Space:**

PERMIT – REQUIRED CONFINED SPACE PROGRAM

- a. Large enough and so configured that employees can bodily enter and perform assigned work and;
 - b. Has a limited or restricted means for entry or exit, and;
 - c. Is not designed for continuous occupancy.
3. **Engulfment:** The surrounding and effective capture of a person by a liquid or finely divided (flowable) solid substance that can be aspirated to cause death by filling or plugging the respiratory system or that can exert enough force on the body to cause death by strangulation, constriction, or crushing.
4. **Entry:** Means the action by which a person passes through an opening into a permit-required confined space. Entry includes ensuing work activities in that space and is considered to have occurred as soon as any part of the entrant's body breaks the plane of an opening into the space.
5. **Entry Permit:** Means the written or printed document that is provided by the employer to allow and control entry into a permit space and that contains the information specified by this standard.
6. **Hazardous Atmosphere:** An atmosphere that may expose employees to a risk of death, incapacitation, impairment of ability to self-rescue, injury, or acute illness from one or more of the following:
 - a. Flammable gas, vapor, or mist in excess of 10 percent of its lower flammable limit (LFL);
 - b. Airborne combustible dust at a concentration that meets or exceeds its LFL;
 - c. Atmosphere oxygen concentration below 19.5 percent or above 23.5 percent;
 - d. Atmosphere concentration of any substance for which a dose or permissible exposure limit;
 - e. Any other atmospheric condition that is immediately dangerous to life or health.
7. **Non-Permit Confined Space:** A confined space that does not contain hazards or has the potential to contain any hazard capable of causing death or serious physical harm.

PERMIT – REQUIRED CONFINED SPACE PROGRAM

EFFECTIVE DATE: NOVEMBER 1, 2022

8. Permit-Required Confined Space: A confined space that has one or more of the following characteristics:
 - a. Contains or has the potential to contain a hazardous atmosphere;
 - b. Contains a material that has the potential for engulfing an entrant;
 - c. Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross-section; or
 - d. Contains any other recognized serious safety or health hazard.
9. Permit-Required Confined Space Program: The employer's overall program for controlling, and, where appropriate, for protecting employees from permit space hazards and for regulating employee entry into permit spaces.

SECTION II - GENERAL POLICIES AND PROCEDURES**A. Assignment of Responsibilities:****Risk Management and Safety Program Coordinator**

1. Risk Management and Safety Program Coordinator shall be responsible for the development, documentation, and administration of the Town of Collierville's Confined Space Entry Program. In fulfilling these responsibilities, the Risk Management and Safety Program Coordinator shall carry out the following tasks:
 - a) Develop the Written Confined Space Entry Program.
 - b) Maintain records of employee training.
 - c) Provide guidance for the proper selection and use of appropriate air monitoring equipment, respiratory protection, and personal protective equipment to meet the requirements of this program.
 - d) Periodically audit work operations and documentation using cancelled permit to evaluate the overall effectiveness of the Confined Space Entry Program and ensure that employees participating in entry operations are protected from permit space hazards.
 - e) Assist each Manager/Supervisor in identifying confined spaces encountered by his/her employees.

PERMIT – REQUIRED CONFINED SPACE PROGRAM

- f) Provide guidance for the proper selection and use of the appropriate safety and rescue equipment to meet the requirements of the Confined Space Entry Program.

Entry Managers/Supervisors

- 2. Managers and Supervisors shall also serve as the Entry Supervisor and shall be qualified and authorized to approve confined space permits. The Entry Manager or Supervisor shall be responsible for identifying and reporting all job areas and locations that are or may be confined spaces. A list of confined spaces that are identified shall be submitted to the Risk Management and Safety Program Coordinator. In addition to this, the designated Entry Manager shall carry out the following tasks:
 - a) Classify confined spaces as “permit required” or “non-permit required.”
 - b) Identify personnel who will enter confined spaces.
 - c) Identify the personnel under their supervision required to wear respirators.
 - d) Advise personnel on routine measurement of respiratory hazards in confined spaces.
 - e) Provide detailed instruction and training on confined space hazards and entry procedures to those who may enter confined spaces.
 - f) Provide instruction to personnel on the proper use of equipment required for confined space entry.
 - g) Maintain equipment that is used to enter confined spaces.
 - h) Conduct work site inspections to review unit compliance with confined space entry procedures.
 - i) Maintain records of equipment maintenance and employee training.
 - j) Inform employees who may enter the permit confined space by posting danger signs or by training.
 - k) Issuance and cancellation of entry permits.
 - l) Identify and evaluate the hazards of permit spaces before employees can enter them.
 - m) Conduct a pre-entry briefing to inform entrants of possible hazards that may be encountered.
 - n) Identify the people who will enter the confined spaces.
 - o) Identify the people who will be attendants.
 - p) Take the necessary measures to prevent entrance into prohibited permit spaces.

Attendants

- 3. Designated trained personnel shall function as Attendant(s) and shall be stationed outside of the confined workspace. The Attendant(s) shall:
 - a) Be knowledgeable of and be able to recognize potential confined space hazards.

PERMIT – REQUIRED CONFINED SPACE PROGRAM

EFFECTIVE DATE: NOVEMBER 1, 2022

- b) Maintain a sign-in/sign-out log with a count of all persons in the confined space, and ensure all entrants sign in and out.
- c) Monitor surrounding activities to ensure the safety of personnel.
- d) Maintain effective and continuous communication with personnel during confined space entry, work, and exit.
- e) Order personnel to evacuate the confined space if he/she:
 - 1) Observe a condition which is not allowed on the entry permit;
 - 2) Notices the entrants acting strangely, possibly as a result of exposure to hazardous substances;
 - 3) Notices a situation outside the confined space which could endanger personnel;
 - 4) Notices a hazard within the confined space that has not been previously recognized or taken into consideration.
 - 5) Must leave his/her workstation; or
 - 6) Must focus attention on the rescue of personnel in some other confined space that he/she is monitoring.
- f) Immediately summon the Rescue Team if crew rescue becomes necessary.
- g) Keep unauthorized persons out of the confined space, order them out, or notify personnel of an unauthorized entry.

Employees

- 4. Employees who may enter confined spaces shall comply with the confined space entry and procedures contained herein and with those procedures stipulated by their supervisor. To comply, employees shall carry out the following tasks:
 - a) Store, clean, maintain and guard against damage, equipment used for confined space entry.
 - b) Report any deficiencies or malfunctions of equipment to a supervisor.
 - c) Understand emergency procedures in case of an accident in a confined space.
 - d) Under no circumstances enter a confined space that is suspected of having a non-respirable atmosphere, even to rescue a fellow employee.

Each department will have the responsibility for identifying the employee that will oversee implementing the permit required confined space program within that department. The responsible person identified for each department will be accountable for enforcing the program and ensuring compliance with the procedures in their department.

In compliance with the Confined Space Entry Program, the departments, shall identify all permit-required confined spaces in the workplace, prevent unauthorized entry into them, protect authorized workers from hazards, establish entry procedures, establish appropriate training for authorized entrants, entry supervisors, attendants, and document compliance.

PERMIT – REQUIRED CONFINED SPACE PROGRAM

EFFECTIVE DATE: NOVEMBER 1, 2022

Provide each authorized entrant or employee representative with the opportunity to observe any monitoring or testing of permit spaces and make available to all affected employees and authorized representatives all information required to be developed as required by the confined space standard.

B. General Guidelines:

1. Where permit spaces are located, notice of danger shall be posted where appropriate. Signs reading "**DANGER - PERMIT REQUIRED CONFINED SPACE, DO NOT ENTER**" will be posted.
2. It shall be a violation of the Town of Collierville safety procedures for employees to enter confined space without proper authorization. Violation of this policy shall result in disciplinary action up to and including possible termination.
3. If the entry supervisor can demonstrate that the only hazard posed by the permit space is an actual or potential hazardous atmosphere and if it can be demonstrated that continuous forced air ventilation alone is sufficient to maintain the permit space safe for entry and if monitoring and inspection data support such conditions, then entry can be made according to the following requirements.
 - a. A condition making it unsafe to remove an entrance cover shall be eliminated before the cover is removed;
 - b. When entrance covers are removed, the opening shall be promptly guarded by a railing, temporary cover, or other temporary barrier that will protect employees working in the space from foreign objects from entering the space.
 - c. Before an employee enters the space, the internal atmosphere shall be tested, with a calibrated direct reading instrument for oxygen content, flammable gases and vapors, and potential toxic air contaminations.
 - d. There may be no hazardous atmosphere within the space whenever any employee is inside the space.
 - e. Continuous forced air ventilation shall be used and the atmosphere within the space shall be periodically tested as necessary to ensure the continuous forced air ventilation is preventing the accumulation of hazardous atmosphere or the forced air ventilation is so directed as to ventilate the immediate areas where an employee is or will be present within the space and shall continue until all employees have left the space. The forced air ventilation shall be from a clean source and cannot increase the hazards in the space.

PERMIT – REQUIRED CONFINED SPACE PROGRAM

- f. The atmosphere within the space shall be periodically tested, as necessary, to ensure that the continuous forced air ventilation is preventing the accumulation of hazardous atmosphere.
 - g. If a hazardous atmosphere is detected during entry, each employee shall leave the space immediately, the space shall be evaluated to determine how the hazardous atmosphere developed; and measures shall be implemented to protect the employees from the hazardous atmosphere before any subsequent entry takes place.
 4. The Town of Collierville shall provide the following equipment, as needed, at no cost to the employees, and shall maintain the equipment properly, and ensure the equipment is used properly:
 - a. Testing and monitoring equipment;
 - b. Ventilating equipment needed to obtain acceptable entry conditions;
 - c. Communications equipment needed for compliance;
 - d. Personal protective equipment;
 - e. Lighting equipment needed to enable employees to see well enough to work safely and to exit the space quickly in an emergency;
 - f. Barriers and shields;
 - g. Equipment such as ladders, needed for safe entry and exit;
 - h. Rescue and emergency equipment;
 - i. Any other equipment needed for safe entry into and rescue from permit spaces.
 5. The Entry Supervisor shall evaluate permit space conditions when entry operations begin by:
 - a. Testing conditions in the permit space to determine if acceptable entry conditions exist before an entry is authorized to begin;

PERMIT – REQUIRED CONFINED SPACE PROGRAM

EFFECTIVE DATE: NOVEMBER 1, 2022

- b. Testing or monitoring the permit space as necessary to determine if acceptable entry conditions are being maintained during entry operations.
6. When testing for atmospheric hazards, test first for oxygen, then for combustible gases and vapors, and then toxic gases and vapors.
7. The Entry Supervisor shall provide at least one attendant outside the permit space into which entry is authorized for the duration of the entry operations.
8. When multiple spaces are to be monitored by a single attendant, the appropriate communication equipment shall be available to enable the attendant to respond to an emergency affecting one or more of the permit spaces being monitored without distraction from the attendant's responsibilities.
9. If at any time there is a questionable action or non-movement by the worker inside, there will be a verbal check made. If there is no response, the worker will be removed immediately. **EXCEPTION:** If the worker is disabled due to falling or impact, he/she shall not be removed from the confined space unless there is immediate danger to his/her life.
10. Chest harness with attached lifeline shall be used by all workers entering the space with the free end of the line secured outside the entry opening. The attendant (standby worker) shall attempt to remove a disabled worker via his lifeline. The attendant is not permitted to enter the workspace to perform rescue.
11. When practical, confined spaces will be entered through side openings - those with 3 1/2 ft. or (1.07 m) of the bottom. When entry must be made through a top opening, the safety belt shall be of the approved type that suspends a person upright and an approved hoisting device or similar apparatus shall be available for lifting workers out of the space.
12. In any situation where the use of the harness equipment may endanger the worker, use of a hoisting device or safety belt and attachment lifeline may be disconnected.
13. When dangerous air contamination is attributable to flammable and/or explosive substance, lighting and electrical equipment shall be Class 1, Division 1 rated per National Electrical Code and no ignition source shall be introduced into the space.
14. Continuous gas monitoring shall be performed during all confined space operations. If alarm conditions change adversely, entry personnel shall exit the confined space and a new confined space permit issued.

PERMIT – REQUIRED CONFINED SPACE PROGRAM

15. A permit-required space may be reclassified as a non-permit space if:
 - a. The permit space possesses no potential or actual atmospheric hazards and if all hazards within the space are eliminated;
 - b. If testing and inspection during that entry demonstrates that the hazard within the space have been eliminated, the permit may be reclassified as a non-permit confined space for as long as the hazard remains eliminated.
16. When there are changes in the use or configuration of a non-permit confined space that might increase the hazard to entrants, the employer shall re-evaluate that space and if necessary, reclassify it as a permit-required confined space.
17. A space classified as a permit-required confined space may be reclassified as a non-permit confined space if the permit required space poses no actual or potential atmosphere hazards and if all hazards within the space eliminated without entry into the space, the permit space may be reclassified as a non-permit confined space as long as the non-atmospheric hazards remain eliminated.
18. When the department manager arranges to have employees, of another employer (contractor) perform work that involves permit space entry, the department manager shall:
 - a. Inform the contractor that the workplace contains permit spaces and that permit space entry is allowed only through compliance with the permit space entry program;
 - b. Apprise the contractor of the elements, including the hazards identified and the department's experience with the space, that make the space in question permit required;
 - c. Apprise the contractor of any precautions or procedures that the host employer has implemented for the protection of employees in or near permit spaces where contractor personnel will be working;
 - d. Coordinate entry operations with contractor when both Town of Collierville employees and contractor personnel will be working in or near permit spaces;
 - e. Debrief the contractor at the conclusion of the entry operations regarding the permit space program followed and regarding any hazard confronted or created in permit spaces during entry operations.

PERMIT – REQUIRED CONFINED SPACE PROGRAM**SECTION III - PRE-ENTRY****A. Policy Statement:**

Before entry is authorized, the supervisor shall document the completion of measures to ensure safe permit space entry operations by specifying acceptable entry conditions, isolating the permit space, ventilating the space to eliminate or control atmospheric hazards, providing barriers as necessary and verifying that conditions in the permit space are acceptable for entry.

B. General Guidelines:

1. Equipment preparation prior to isolation of the equipment requiring an entry is required. Every effort must be made to clean and purge the area of any hazardous contents. This should be done until atmospheric testing indicates levels are below any concentration which could cause physical or health hazards.
2. Equipment isolation is to be accomplished by utilization of appropriate lockout/tagout and line breaking procedures.
3. Testing before entry for oxygen levels, flammability, and/or any contaminants that might have a potential to be present is required. The test must be performed by qualified personnel using equipment that has been checked for proper functions.
4. Testing must be done throughout the entire portion of the space that work will occupy during the entry. This testing must be done without the use of a ventilation system. The atmosphere must be tested at various levels since some gases and vapors are lighter or heavier than air which can result in a layering effect.
5. The following conditions must be met before the atmosphere is considered safe:
 - a. An "LFL" reading between 0 and 10 percent;
 - b. An oxygen level between 19.5 percent and 23.5 percent;
 - c. An airborne combustible dust at a concentration that obscures vision at a distance greater than 5 feet;
 - d. An atmospheric concentration of a substance less than the permissible exposure limit.

PERMIT – REQUIRED CONFINED SPACE PROGRAM

EFFECTIVE DATE: NOVEMBER 1, 2022

6. Entry into the confined space is prohibited until these conditions are all met, or until special protective measures are provided.
7. Testing must be performed just prior to commencement of the entry and before re-entry if the workers have left the site for an extended time period (15-20 minutes).

SECTION IV - PERMIT SYSTEM**A. Policy Statement:**

Before entry into a confined space is authorized, an entry form must be completed, documenting compliance with the standard and authorizing entry into the space. The entry permit shall identify the space; the purpose of entry; the date and duration of entry; authorized entrants; attendants; entry supervisor; the hazards of the permit space and measures to isolate/eliminate the hazards. The permit shall also contain the results of initial and periodic tests accompanied by the names of the testers.

The permit shall also contain the rescue and emergency services that can be summoned and the means for summoning, in addition to a list of personal protective and communication equipment.

B. General Guidelines:

1. Before entry is authorized, the entry supervisor must document the completion of an entry permit. Before entry begins, the entry supervisor identified on the permit must sign the entry permit to authorize entry.
2. The complete permit shall be made available at the time of entry, to all authorized entrants, by posting it at the entry portal.
3. The duration of the permit may not exceed the time required to complete the assigned task or job identified on the permit.
4. The entry supervisor shall terminate or cancel the permit when:
 - a. The entry operations covered by the permit have been completed; or
 - b. A condition that is not allowed under the permit arises in or near the permit space.

C. Employer shall review permit space program within one year.

PERMIT – REQUIRED CONFINED SPACE PROGRAM**SECTION V - SEWER SYSTEM ENTRY**

A. Policy Statement:

Though sewer entry differs from other permit entries, because of the difficulty in completely isolating the space, the provision of the Standard continues to apply.

B. General Guidelines:

1. Only employees who are thoroughly trained in the Town of Collierville sewer entry procedures can be named entrants.
2. Entrants must be trained in the use of atmospheric monitoring equipment.
3. The confined space administrator shall develop and maintain liaison with local weather bureau and fire and emergency services so that sewer work can be delayed or interrupted whenever sewer lines might be flooded by rain or fire suppression activities, or when flammable or other hazardous material are released into sewers during emergencies by industrial or transportation accidents.
4. Because conditions are subject to change, employees who enter sewer systems must conduct continuous atmospheric monitoring of the space at the employee's work location.

SECTION VI - TRAINING

A. Policy Statement:

All employees of the Town of Collierville, who may encounter confined spaces in the course of their work, must be made aware of the appropriate procedures and controls for entry and that unauthorized entry into such spaces is forbidden. They must be made to realize that an unauthorized entry could be fatal; and that their senses may be unable to detect and evaluate the severity of atmospheric hazards.

B. General Trainings

1. The Department Manager shall provide training so that all employees acquire the understanding, knowledge, and skills necessary for the safe performance of the duties assigned them. Training shall contain hazard recognition, use of personal

PERMIT – REQUIRED CONFINED SPACE PROGRAM

protective equipment, self-rescue techniques, any special work practices or procedures needed to perform work in the confined space safely, lockout/tagout procedures for equipment and use of atmospheric equipment.

2. Training shall be provided to each affected employee before the employee is first assigned duties under this policy; before there is a change in assigned duties; whenever there is a change in permit space operations that present a hazard about which an employee has not been previously trained and whenever the Department Manager has reason to believe either that there are deviations from the permit space entry procedures or that there are inadequacies in the employee's knowledge or use of the procedures.
3. Training shall establish employee proficiency in the duties required and shall introduce new and revised procedures as necessary for compliance with the program.
4. The Risk Management and Safety Program Coordinator will certify that the training has been accomplished. The certification shall contain each employee's name, the signature or initials of the trainers, and dates of training. The certification shall be available for inspection by employees and their authorized representatives.
5. Any employee required or permitted to pre-check or enter an enclosed/confined space shall have successfully completed, as a minimum, the training as required by this section of the procedures.
6. Employees shall not perform any entry space tasks until the employee has been certified as posing the appropriate skills.
 - a. Authorized Entrants must be trained to recognize confined space hazards, including the information on the mode of exposure, signs or symptoms, and consequences of exposure, proper use of personal protective equipment, use of communication equipment, and procedures for exiting a permit space.
 - b. Attendants must be trained to remain outside permit spaces during operations; perform non-entry rescues; recognize existing and potential hazards; use of communication devices; when to order evacuation of a permit space; and when to summon rescue and other emergency services.
 - c. Entry Supervisor must be trained to recognize space hazards; verification of emergency plans, testing, permits, procedures, and equipment; when to terminate entry and when to cancel permits.

PERMIT – REQUIRED CONFINED SPACE PROGRAM

EFFECTIVE DATE: NOVEMBER 1, 2022

SECTION VII - RESCUE AND EMERGENCY**A. Policy Statement:**

It is the responsibility of the Fire Department Chief of Operations to ensure that rescue services personnel are provided with and trained in the proper use of personal protective and rescue equipment, first aid and CPR.

B. General Guidelines:

1. In the event of emergency or situation requiring emergency medical attention, the Town of Collierville will utilize the emergency services of:
 - a. Town of Collierville Fire Department
2. The designated Attendant shall be the individual responsible for monitoring activities inside and outside the confined space and summoning emergency and rescue services. If necessary, the Attendant shall perform non-entry rescue as appropriate.
3. Each member of the rescue and emergency services shall be trained to use properly, the personal protective equipment and rescue equipment necessary for making rescues from permit spaces.
4. Each member must be trained in basic first aid and in CPR.
5. Each member of the rescue service shall practice making permit space rescues at least once every 12 months, by means of simulated rescue operations in which they remove dummies, manikins, or actual persons from the actual permit spaces. Each member must be trained in basic first aid and in CPR. At least one member of the rescue service holding current certification in first aid and in CPR shall be available.
6. When retrieving injured or unconscious worker, members of the rescue unit shall use a chest or full body harness, with retrieval lines attached at the center of the entrants back. The other end of the retrieval line shall be attached at the mechanical device in such a manner that the rescue can begin as soon as the rescuer becomes aware.
7. A mechanical retrieval device shall be available to retrieve personnel from vertical type permit spaces more than 5 feet deep.
8. Material Safety Data Sheets (MSDS) maintained by the Risk Management and Safety Program Coordinator shall be made available to medical facilities treating entrants exposed to hazardous materials.

PERMIT – REQUIRED CONFINED SPACE PROGRAM

SUPERSEDES No.:

EFFECTIVE DATE: NOVEMBER 1, 2022

PAGE No.: 15 of 20

CONFINED SPACE ENTRY PERMIT

Date and time issued: _____ Expiration date and time: _____

Job site/ Space I.D.: _____ Job supervisor: _____

Work to be performed: _____

Entrant has received training Yes NoAttendant has received training Yes NoSupervisor has received training Yes NoAttendant personnel: _____

_____**Atmospheric Checks (Testing Results)**Oxygen level: _____ **Oxygen levels are safe**—they are between 19.5 and 23.5 percent. Yes NoFlammable gas, vapor or mist level: _____ **Flammable gas, vapor or mist levels are safe**—they are not over 10 percent of LFL. Yes NoAirborne combustible dust level: _____ **Airborne combustible dust levels are safe**—they do not meet or exceed LFL.* Yes NoOther toxic and hazardous substance level: _____ **Other toxic and hazardous substance levels are safe**—they do not exceed PEL. Yes No**Other atmospheric conditions are safe**—there is no other atmospheric condition that is immediately dangerous to life or health. Yes NoIf “No”, describe: _____

Tester’s signature _____ Date and time of testing _____

PERMIT – REQUIRED CONFINED SPACE PROGRAM

EFFECTIVE DATE: NOVEMBER 1, 2022

* Concentration can be approximated as a condition in which the combustible dust obscures vision at a distance of 5 feet (1.52 meters) or less.

Space Preparation (Blanking, Lockout, Tagout, etc.)

<u>Hazard</u>	<u>Preparation/Isolation</u>	<u>Date Completed</u>

Ventilation

Mechanical N/A Yes No

Natural ventilation only N/A Yes No

Means of detecting an increase in atmospheric hazard levels if the ventilation system malfunctions:

Atmospheric Checks AFTER Isolation and Ventilation (Testing Results)

Oxygen level: _____	Oxygen levels are safe —they are between 19.5 and 23.5 percent.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Flammable gas, vapor or mist level: _____	Flammable gas, vapor or mist levels are safe —they are not over 10 percent of LFL.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Airborne combustible dust level: _____	Airborne combustible dust levels are safe —they do not meet or exceed LFL.*	<input type="checkbox"/> Yes <input type="checkbox"/> No

PERMIT – REQUIRED CONFINED SPACE PROGRAM

EFFECTIVE DATE: NOVEMBER 1, 2022

Other toxic and hazardous substance level:

Other toxic and hazardous substance levels are safe—they do not exceed PEL.

() Yes () No

Other atmospheric conditions are safe—there is no other atmospheric condition that is immediately dangerous to life or health.

() Yes () No

If "No", describe:

Tester's signature

Date and time of testing

* Concentration can be approximated as a condition in which the combustible dust obscures vision at a distance of 5 feet (1.52 meters) or less.

Communication Procedures

Rescue Team Contact Procedure

Procedure reviewed by:

Review date:

Equipment Check (Equipment is Available and Functional)

- Direct reading, calibrated meter () N/A () Yes () No
Ventilation equipment () N/A () Yes () No
Safety harness and lifelines for entry personnel () N/A () Yes () No
Retrieval device () N/A () Yes () No
Communications () N/A () Yes () No

PERMIT – REQUIRED CONFINED SPACE PROGRAM

EFFECTIVE DATE: NOVEMBER 1, 2022

Access equipment N/A Yes No
 Protective clothing N/A Yes No
 All electric equipment listed for area classification N/A Yes No

Periodic Atmospheric Tests (by Substance Type)

Oxygen	_____ %	Test time: _____	Oxygen	_____ %	Test time: _____
Oxygen	_____ %	Test time: _____	Oxygen	_____ %	Test time: _____
Flammable	_____ %	Test time: _____	Flammable	_____ %	Test time: _____
Flammable	_____ %	Test time: _____	Flammable	_____ %	Test time: _____
Combustible	_____ %	Test time: _____	Combustible	_____ %	Test time: _____
Combustible	_____ %	Test time: _____	Combustible	_____ %	Test time: _____
Toxic	_____ %	Test time: _____	Toxic	_____ %	Test time: _____
Toxic	_____ %	Test time: _____	Toxic	_____ %	Test time: _____

Certification

We have reviewed the work authorized by this permit and the information contained herein. Affected employees, entrants, attendants and supervisors have received and understand written instructions and safety procedures. Entry cannot be approved if any items are marked in the "No" column. This permit is valid **only if** all appropriate items are completed.

Permit prepared (Supervisor)
 by: _____

All entry procedures have been followed: _____

Entry supervisor: _____ Date: _____
 Entrant: _____ Date: _____
 Attendant: _____ Date: _____

PERMIT – REQUIRED CONFINED SPACE PROGRAM**Permit Required Confined Space Inventory****PUBLIC SERVICES DEPARTMENT**

<u>Space</u>	<u>Location</u>	<u>Hazard</u>
Manholes	Various locations throughout Town	Atmospheric, engulfment, falling objects communication, egress impediment
Drainage Pipes	Various locations throughout Town	Atmospheric, engulfment, falling objects, communication, egress impediment
Inlet Boxes	Various locations throughout Town	Atmospheric, engulfment, falling objects, communication, egress impediment

SHELTON RD. WASTEWATER TREATMENT PLANT

Manhole	Effluent Flow Meter Sensor	Atmospheric, engulfment, communication, egress impediment
Wet well	Screw Pumps	Atmospheric, engulfment, falling objects, electrical, egress impediment
Wet well	Influent Pump Station	Atmospheric, engulfment, falling objects, communication, egress impediment

NORTHWEST WASTEWATER TREATMENT PLANT

Wet well	Screw Pumps	Atmospheric, engulfment, falling objects, communication, electrical, egress impediment
Wet well	Influent Pump Station	Atmospheric, engulfment, falling objects, communication, egress impediment
Wet well	Grit Chamber	Atmospheric, engulfment, falling objects, communication, egress impediment

WATER TREATMENT PLANT #1

Tank	Elevated Water Tank	Engulfment, communication, egress impediment
Pit	Flow Meter Pit	Communication, egress impediment

WATER TREATMENT PLANT #2

Tanks	Above Ground Tank	Engulfment, communication, egress impediment
Pit	Flow Meter Pit	Communication, egress impediment
Pit	Autovalve Pit	Communication, egress impediment

WATER TREATMENT PLANT #3

Reservoir	Water Reservoir	Engulfment, communication, egress impediment
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PERMIT – REQUIRED CONFINED SPACE PROGRAM

SUPERSEDES No.:

EFFECTIVE DATE: NOVEMBER 1, 2022

PAGE No.: 20 of 20

Permit Required Confined Space Inventory**WATER PLANT #4**

<u>Space</u>	<u>Location</u>	<u>Hazard</u>
Reservoir	Water Reservoir	Engulfment, communication, egress impediment
Pit	Flow Meter Pit	Communication, egress impediment
Pit	Electrical Pit	Communication, egress impediment

WATER PLANT #5

Tank	Above ground tank	Engulfment, communication, egress impediment
Tank	Flash mix tank	Engulfment, communication, egress impediment
Pit	Flow Meter Pit	Communication, egress impediment