### **Job Hazard Analysis (JHA): Chlorine Tank Replacement at Water Well Houses**

**Date:** [Insert Date]
**Location:** [Insert Location]
**Prepared By:** [Insert Name]
**Approved By:** [Insert Name]

#### **Job Steps**

1. **Preparation and Planning**
	1. Review the location and procedures.
	2. Gather necessary tools, equipment, and personal protective equipment (PPE).
	3. Conduct a pre-job briefing with the team.
2. **Changing the Chlorine Tank**
	1. Identify and mark hazardous areas.
	2. Ensure proper ventilation in the work area.
	3. Disconnect the empty chlorine tank safely.
	4. Connect the new chlorine tank following the manufacturer's instructions.
	5. Check for any leaks and ensure the system is functioning correctly.
3. **Final Inspection and Cleanup**
	1. Conduct a final inspection to ensure all hazards are addressed.
	2. Clean up the work area.
4. **Preparation and Planning**
	1. Review the location and procedures.
	2. Gather necessary tools, equipment, and personal protective equipment (PPE).
	3. Conduct a pre-job briefing with the team.
5. **Changing the Chlorine Tank**
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6. **Final Inspection and Cleanup**
	1. Conduct a final inspection to ensure all hazards are addressed.
	2. Clean up the work area.

#### **Hazards and Controls**

| **Potential Hazards** | **Control Measures** |
| --- | --- |
| **Chemical Exposure:** Exposure to chlorine, which can cause respiratory issues, skin irritation, and eye damage. | Use appropriate PPE such as gloves, goggles, and respirators. Follow safety data sheets (SDS) guidelines and ensure proper ventilation. |
| **Musculoskeletal Injuries:** Strain from lifting and maneuvering heavy tanks and equipment. | Use proper lifting techniques, take frequent breaks, and use mechanical aids such as hoists or dollies when possible. Stretch before starting work. |
| **Slips, Trips, and Falls:** Wet or uneven surfaces, tools, and materials in the work area. | Wear slip-resistant footwear, keep the work area clean and organized, and be cautious of uneven terrain. |
| **Confined Spaces:** Limited entry and exit points, poor ventilation. | Conduct air quality tests, use proper PPE, and have a rescue plan in place. |

#### **Personal Protective Equipment (PPE)**

* Gloves
* Goggles
* Respirators
* Slip-resistant footwear
* High-visibility clothing (if working near roadways)

#### **Emergency Procedures**

* In case of chlorine exposure, move to fresh air immediately and seek medical attention.
* In case of a spill, follow the spill response plan and use appropriate containment measures.

**Equipment**

* Chlorine tank
* Tools for disconnecting and connecting the tank
* Ventilation equipment
* Hoists or dollies for lifting

#### **Training Requirements**

* Chlorine Handling Safety
* Hazard Communication/New Jersey Right to Know
* Personal Protective Equipment (PPE)
* Hazard Recognition and Control Measures

Feel free to adjust this JHA to fit the specific requirements and conditions. Safety is paramount!