



JHA - Job Hazard Assessment

No one may perform any work on this site without first reviewing, understanding, and signing off on this JHA.

Client:	Project:	JHA Assessment Date: June 2026	Task Start Date:
JHA Title: Ground Disturbance	Supervisor(s):	JHA Author: HSE Manager	

PPE Required:

- 4 head gas monitors (bumped and calibrated) to be worn on the upper portion of body
- Gloves appropriate for task
- Hearing protection when required
- CSA approved eye protection
- CSA "Green Triangle" Safety Footwear
- FR Coveralls with reflective striping
- CSA Approved Hard Hat
- Fall Protection when required

TASK	Pre Control	HAZARDS	CONTROLS	Post Control
Obtain Safe Work Permit	M	• Miscommunication, misunderstanding or lack of information. • Incomplete documentation. • Incomplete scope of work/operations.	• Inspect the permit by reviewing elements of the work scope and the written instructions. • Review the permit with workers prior to commencing work to establish that no conditions have changed or were missed, all workers involved in the task must sign on to the permit. • Verify that the worker understands the entire scope of work prior to signing the permit by actively reviewing it with them.	L
Pre-Job Planning & Communication of Hazards	M	• Incomplete or inaccurate locates • Missing permits or crossing agreements • Unverified supervisor competency • Unidentified soil instability • Poor communication between workers and contractors	• Complete Ground Disturbance Checklist before any work begins • Complete Soil Assessment Checklist to classify soil and stability • Verify Ground Disturbance Level 2 (Supervisors) training • Obtain valid One-Call and notify non-One-Call facility owners • Review drawings, maps, as-builts, and client COP requirements • Conduct pre-job tailgate meeting and FLHA • Confirm emergency response plan and communication plan • Ensure minimum PPE is being worn.	L
Travel to work task location	H	• Vehicle collisions/road accidents/ Wildlife Contact.	• Conduct pre-trip vehicle inspection (tires, lights, fluids, brakes). • Follow posted speed limits and adjust for weather/road conditions. • Maintain safe following distance (3 - 6 seconds). • Use seatbelts at all times. • No aggressive driving, passing in unsafe areas, or sudden maneuvers. • No distracted driving: pull over safely before making calls or sending messages. • Reduce speed in wildlife-dense areas, especially at Dawn/Dusk.	L
	H	• Poor weather conditions	• Reduce speed and increase following distance in snow, rain, fog, or ice. • Use winter tires during winter months. • Delay travel during severe weather advisories. • Keep emergency kit (blanket, shovel, traction aids) and cell phone charger. • Clear snow/ice from windows, mirrors, and lights before driving.	L



TASK	Pre Control	HAZARDS	CONTROLS	Post Control
Travel to work location (continued)	M	Parking: Reverse Collisions, Obstructions, Blind Spots, Pedestrian Interactions.	Spotters: - A spotter must be used when reversing into tight areas, congested zones, or anywhere visibility is restricted. - Spotter maintains continuous visual contact with the driver. - Spotter uses standardized hand signals and stands in a safe, visible location not walking backwards. - Stop immediately if visual contact is lost. Parking: - Park only in designated, approved parking zones away from haul routes, rig-move paths, and equipment swing areas. - Ensure parking areas are level, stable, and free of obstructions. - Maintain clear access for emergency vehicles. - Use backup cameras and mirrors but do not rely on them alone. - Sound horn before reversing. - Maintain slow, controlled movements.	L
Locating & Marking Buried Facilities	H	- Striking pipelines, cables, fiber optics, water lines - Incorrect locate interpretation - Unmarked abandoned lines - Miscommunication between locator and excavation crew	- Use Ground Disturbance Checklist to verify locate accuracy - Hydrovac within 5 m of any marked facility - Follow client crossing agreements and mechanical excavation limits - Re-mark exposed facilities clearly - Stop work immediately and follow incident reporting protocol if contact or near-miss occurs - Maintain communication between locator, supervisor, and equipment operator	L
Hydrovac Excavation	H	- High-pressure injection injuries - Flying debris - Water accumulation causing trench instability - Slips, trips, and falls around hydrovac area - Equipment blind spots	- Use proper wand pressure and maintain safe standoff distance - Control water accumulation; pump out as required - Keep spoil piles ≥ 1.2 m from trench edge - Establish equipment exclusion zones - Ensure PPE: face shield, gloves, hearing protection as required - Ensure workers remain outside exclusion zones and blind spots	L
Mechanical Excavation	H	- Striking buried facilities - Undercutting trench walls - Vibration causing soil collapse - Worker struck-by or caught-between equipment	- Mechanical excavation only after hydrovac confirmation - Maintain required setback distances from facilities - Keep equipment away from trench edges - Follow Soil Assessment Checklist for stability and protective system selection - Stop work if soil conditions change (rain, thaw, groundwater) - Ensure workers remain outside exclusion zones - Use a trained spotter to guide equipment movement - Maintain radio or direct line-of-sight communication - Shut down equipment when workers need to approach - Keep workers out of pinch points, swing radiuses, and blind-spot areas	L



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Worker Entry Into Excavation or Trench	H	- Cave-ins, sloughing, raveling - Groundwater pressure - Restricted access or egress - Atmospheric hazards - Falling objects or spoil collapse	- Install protective system before entry: sloping, benching, shoring, trench box, or engineered system - Place ladders within 8 m of workers - Install barricades and signage - Continuous monitoring by competent person - Conduct atmospheric testing if required (ie: when trench >1.2 m) - Keep spoil piles ≥ 1.2 m from trench edge - Reassess soil after weather changes	L
Backfilling and Site Restoration	M	- Equipment striking workers - Collapse during backfill - Poor compaction leading to future subsidence - Damage to exposed facilities	- Maintain strict exclusion zones and obey them at all times - Ensure workers are clear before backfilling - Compact backfill in lifts as required - Confirm facility protection before covering - Conduct final inspection by competent person - Remove barricades only when area is safe	L
Emergency Response	M	- Facility strike - Worker injury inside trench - Hydrovac or equipment incident	- Review emergency response plan during tailgate - Post emergency contact numbers and on the FLHA - Review and Document Muster Points and Emergency Meeting Points - Supervisor maintains communication with client and emergency services	L

Final Authorization

Ground Disturbance Checklist Completed:	☐ Yes ☐ No	Name:	Initial:
Soil Assessment Checklist Completed:	☐ Yes ☐ No	Name:	Initial:
Protective System Installed (if required):	☐ Yes ☐ No	Name:	Initial:
Safe to Proceed:	☐ Yes ☐ No	Name:	Initial:

Leadership Sign off

Supervisor Name:		Signature:		Date:	
HSE Manager Name:		Signature:		Date:	
HSE Manager Name:		Signature:		Date:	



JHA - Job Hazard Assessment - Working at Heights

Please sign your name below to acknowledge that you understand and will follow the requirements and conditions outlined in this JHA.

[illegible]



All hazard ratings in this JHA shall be validated using the Risk Assessment Matrix. Workers are required to cross-check the selected consequence and likelihood levels against the matrix to ensure compliance with Tri-Energy's risk assessment methodology.

Risk Assessment Matrix									
Potential Consequences					Increasing Likelihood				
					1	2	3	4	5
	People	Property	Environ- ment	Reputation	Negligible	Minor	Moderate	Significant	Severe
0	No injury or illness	No damage	No effect	No impact	L	L	L	L	L
1	First Aid	Damage <\$2,000	< TDG limit	Slight impact	L	L	L	L	L
2	Dr visit req.	Damage <\$10,000	< TDG limit	Concern stays at location	L	L	L	M	M
3	Modified work < 5 days	Damage <\$25,000	> TDG limit on ground	Affect ability to work at loca- tion, regulators	L	L	M	M	H
4	Missing work (LTA)	Damage <\$100,000	Any into standing water body	Public response required	L	M	M	H	H
5	Permanent dis- ability or fatality	Damage >\$100,000	Any into flowing water system	On-going public response with lasting impacts	M	M	H	H	H