





## **TASK INVENTORY**

**Division:** Production Services

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JOB PHASE	TASKS	HAZARDS	Severity (1-4)	. Probability (1-5)	Risk Before  Risk (1-20)  Green = Low Yellow = Medium Orange = High Red = Extreme	CONTROLS / STANDARDS	Severity (1-4)	Probability (1-5)	Risk After  Risk (1-20)  Green = Low Yellow = Medium Orange = High Red = Extreme	A Pipeline Spread     A Foreman     A Foreman	, Pipefitter	Equipment Operator (Dozer)	(Excavator) Equipment Operator	(Side Boom)  Pipeline Welder  General Labourers	Site Safety Coordinator Field Quality Control		
Pre Construction site tour	Travel to site	Collision, Rollover, breakdown, Stranded Collision, Rollover, breakdown, Stranded	4	4		Fleet Safety Journey Management(HSEMS-21), Working Traveling alone (SWP-21)  ATV Safety (SWP-01), OEM, helmets, ATV training	3			<del>1</del> <del>1</del>		-	*   *		· · · ·		
	Walk around location	Rolled ankle, wildlife attack, stranded		4		Proper footwear, traction aids where required, choose your path	1			7 7	7	1	1 7		<del>/                                    </del>		
МОВ	Loading/unloading trucks	Cuts, crushes, falls, strains, equipment damage	3			Loading Unloading Hauling Equipment (SWP-29), Cargo Securement (SWP-04), Material Handling (SWP-22)	2	2		- /	1	1	1 1				
	Attach dozer blade	Crushing, strains, equipment damage	4			Installing Blade onto D6 (SJP-16)	3				<u> </u>	<del>-</del>	<del>-</del>	<del>                                      </del>			
	Attach dozer blade Attach boom	Incorrect assembly, crushing, pinches, cuts, contusions		4		Removing Boom Stick (SJP-16)		1			-	*	-				
	Working around mobile equipment	crushing, fatality, amputations,		5		Mechanical Mobile Equipment Operations (SWP-44), Excavating and Trenching (SJP-30)	4			1 1	1	7	1 1	77	· / /		
Signs and Barricades	Pounding posts	Cuts, crushes, strains, contact of buried facilities		3		Ground Disturbance (COP-07), Ground Disturbance (SWP-62)		1		1				1			
	Installing goal posts	Electrocution, strains	4	3		Excavating and Trenching (SJP-30), Overhead Power Lines (SWP-24)	3			1			_	· ·			
General Labour	Attaching signs Working in heat	Cuts, pinches, Heat related illness, sunburn, severe weather, insect bites	3	2		Avoid workers in the line of fire, follow GD procedures as required  Working in Heat (SWP-68), stay hydrated, monitor weather, use sunscreen and insect repellant		1		1 1		<del>,</del>	<del>,   ,</del>	1 /	/ / /		
General Labour	Working in read	Frostbite, hypothermia, severe weather	3	4		Working in Float (GWF-06)	2			7 7	7	<del>     </del>	<del>7   7</del>	+ + + +	<del>/                                    </del>		
	Using hand and power tools	Cuts, pinches, eye injuries, excessive noise, flying debris	3	4		Tools, Equipment, Machinery (SWP-18), Wrench Use (SWP-74), Safe Knife Use (SWP-76)	3	1		7	1	7	7 7	7 7			
	Manual lifting	Strains, MSI	3	4		Ergonomics-Manual Material Handling (SWP-22)	2			1 1	1	1		· / /			
Working on hills/slope-	Traffic control	Struck by vehicle, severe weather  Runaway equipment, falling debris, rolling stones, slippery conditions		4 5		Traffic Control (SWP-09) Working on Hills and Slopes (SWP-52), chock vehicles, no workers on downhill side of equipment	4	1		7 7		$\overline{}$	<del>,   ,</del>	7 7			
Working on hills/slopes Clear ROW	Chain saw operations	Amputations/lacerations, eye injury, crushing, facility damage		4		Chain Saw Operations (SWP-13), Forestry Logging Operations (SWP-65), PPE, avoid the line of fire		1		*   *		-	一一	+ * + *			
	Felling with Excavator	Equipment damage (broken window, hoses), above and bellow ground Facility damage	3	3		Forestry Logging Operations (SWP-65), workers to avoid line of fire, spotters	2	2					1	工广			
	Felling with Dozer	Equipment damage (broken window, hoses), above and bellow ground Facility damage		3		Forestry Logging Operations (SWP-65), workers to avoid line of fire, spotters		2				1	ı				
	Stumping	Equipment damage, underground facility damage		3		ROW Preparation (SJP-28)	2					1		+			
	Piling brush Burning	Equipment damage (broken window, hoses), above and bellow ground Facility damage  Equipment fire, uncontrolled fire, Environmental & Regulator Fines, burns to workers		3		Use of equipment, PPE  ROW Preparation (SJP-28), fire extinguishers on hand, permits in place		2				7		1 /			
Prepare ROW	Top Soil/sub grade stripping with Dozer	Environmental impact, Equipment damage, underground facility damage,		4		ROW Preparation (SJP-28), GD Procedure		1				7	-	+ $+$	+-+-		
	Top Soil/sub grade stripping with Excavator	Environmental impact, Equipment damage, underground facility damage,	2	4		ROW Preparation (SJP-28), maintain three point contact, clean off boots	1	1					1	1 1			
	Mounting and dismounting (Equipment & Vehicles)	broken bones, cuts, bruising,		4		Maintain three point contact, clean off boots, avoid parking on slope or ice where possible	2			1 1			1 1	4 4			
	Rip rap install	Equipment damage (broken window, hoses), above and bellow ground Facility damage		3		Mechanical Mobile Equipment Operations (SWP-44), Manufactures Operations Manual  Mats Matting (SWP-70), spotters in place as per procedure, use of grapple where appropriate		1 2			1	1	<del>/   -</del>	+ + -			
Snow Removal	Matting install with Excavator Using Skid Steer to remove snow	Damage to facilities and equipment, injury to by standards  Damage to facilities (Above and bellow ground), injuries to other workers,		3		Mais Maturing (SWP-70), spotters in place as per procedure, use or grappie where appropriate  Mechanical Mobile Equipment Operations (SWP-44), Manufactures Operations Manual, assign spotters		2		-	-		<del>'</del> —	+ + 7			
onow romovar	Using dozer to remove snow	Damage to facilities (Above and bellow ground), injuries to other workers,		3		Mechanical Mobile Equipment Operations (SWP-44), Manufactures Operations Manual, assign spotters		2				7	+	+ + +			
	Using Excavator to remove snow	Damage to facilities (Above and bellow ground), injuries to other workers,	3	3		Mechanical Mobile Equipment Operations (SWP-44), Manufactures Operations Manual, assign spotters	2	2					1				
	Using shovel to remove snow	Strains and sprains, injury from fall		4		Mechanical Mobile Equipment Operations (SWP-44), Manufactures Operations Manual, assign spotters		2		1 1		1	1 1				
	Spreading gravel with Skidsteer	Damage to facilities (Above and bellow ground), injuries to other workers,  Damage to facilities (Above and bellow ground), injuries to other workers.		3		Mechanical Mobile Equipment Operations (SWP-44), Manufactures Operations Manual Mechanical Mobile Equipment Operations (SWP-44), Manufactures Operations Manual		2		1	1		_	<b>✓</b>	+		
	Spreading gravel with loader Spreading gravel with dozer	Damage to facilities (Above and bellow ground), injuries to other workers,  Damage to facilities (Above and bellow ground), injuries to other workers,		3		Mechanical Mobile Equipment Operations (SWP-44), Manufactures Operations Manual  Mechanical Mobile Equipment Operations (SWP-44), Manufactures Operations Manual		2			-	7	<u> </u>	+	+		
Stringing Cones/Skids	Load trucks with skids and cones	Strains, sprains, cuts,		3		Material Handling (SWP-22), Loading Unloading Hauling Equipment (SWP-29),	2						+	1 7			
-	Sting cones and skids from truck	Strains, sprains, cuts, crushing from truck,		3		Stringing Pipe (SJP-13), Material Handling (SWP-22), Driving and Journey Management (SWP-28)		1						1			
	Load sloop with Skids and cones from ROW	Strains, sprains, cuts, crushing from truck,		3		Material Handling (SWP-22)		1					_	1			
	String cones and skids from sloop Driving on Right of Way	Strains, sprains, cuts, crushing from truck,  Equipment and facility damage, being stuck, collisions, hitting bystanders		3		Stringing Pipe (SJP-13) Fleet Safety Journey Management(HSEMS-21), Working Traveling alone (SWP-21), Towing (SJP-19)	2	2		7 7	-	<del>,</del>	/ /		<del>/                                    </del>		
Pipe Hauling	Athey Wagon	Crushing, rollover, overloading, entanglement		3		Stay clear of unit, trained operator, load securement, ensure guards are in place	3	1		<u> </u>	tit		7	+	+++		
	Moving pipe with side Boom	Crushing, damaging coating, overloading boom,		4		Pipe Handling (SWP-48)		1		✓			✓				
	Tag line use Using Trailers	crushed, contact with equipment, De-Gloving Equipment damage, Regulatory violation, injury from fall, Hand injuries		4		Material Handling (SWP-22), Cranes, Hoists & Lifting Devices (SWP-34)  Cargo Securement (SWP-04), Loading Unloading Hauling Equipment (SWP-29), Fleet Safety Journey Management	3	<u> </u>		1			+				
	Transporting pipe on Truck	Equipment damage, regulatory violation, loss of load	3	4		(HSEMS-21) Cargo Securement (SWP-04)	2	2		4	1		+	1 /			
Equipment Towing	Towing Equipment	Equipment damage, failure of components, overloading, personal injury	4	4		Towing (SJP-19)	2	1				7	1 1	7	1 1		
String Pipe with hooks & Calipers	Spot equipment	Crushing, contact with other equipment/vehicles	4	4		Mechanical Mobile Equipment Operations (SWP-44)	3	1		1	1			4			
<del></del>	De-Tarp/Unstrap Climb onto Pipe truck	Crushing, equipment damage, material in eyes Falls, crushing, MSI		4		Stringing Pipe (SJP-13) Stringing Pipe (SJP-13)	2	2		· /			+	1			
	Mark centers	Falls, crushing		3		Stringing Pipe (SJP-13)	1			<del>-   }</del>			+	+ + 7			
	Hook in pipe hooks / unhook	Crushing, pinching hands	3	3		Stringing Pipe (SJP-13)	2			-			+	<del> </del>   ~			
	lift off pipe and set on cone and skid	Crushing, equipment damage, struck by swinging loads, workers crushed	4			Stringing Pipe (SJP-13), Mechanical Mobile Equipment Operations (SWP-44)	3						<				
0.1	Hook up calipers	Crushing, pinching hands Crushing, pinches, fall from trailer, struck by pipe		3		Stringing Pipe (SJP-13) Stringing Pipe With Wheels and Chute (SWP-40)	1	1		- <del>'</del>	-		$-\!$	1			
String pipe with chutes String pipe with Deckhand		Crushing, princries, rail from trailer, struck by pipe  Crushing, struck by pipe, struck by excavator		4		Establish control zone, only workers involved in stringing allowed in work area	3			<del>-  </del>	+ +		7	<del>                                     </del>			
String pipe with Vaculift	<u> </u>	Crushing, falling pipe, loss of suction	4	4		Establish control zone, only workers involved in stringing allowed in work area, inspect seals on Vaculift	3	1		7			7	7			
Pipe Bending	Use of hydraulic pipe bender	Crushing, workers pinched between pipe and machine, swinging loads	4	4		Pipe Bending (SJP-06/6A)	3			1			1				
	Use of pipe bending shoe	Crushing, equipment failure		3		Pipe Bending (SJP-06/6A)	3			· ·			· /				
Turn Seams and Pipe end prep	Pulling pig through bends Remove end caps or bags	Impact injuries, strain Cut injuries, back strain	2	3		Pipe Bending (SJP-06/6A) Pipeline Welding (SWP-49, Pipeline Welding (SJP-31)	1	1		<b>-</b>			+	· · · · ·			
	Buffing bevel	Hearing damage, eye injury, hand injury	3			Grinder Operations (SWP-26), Pipeline Welding (SWP-49, Pipeline Welding (SJP-31)	3	1					$\pm$	1 1			
	Turning seams	Strain, damage to pipe, crushing		3		Pipeline Welding (SWP-49, Pipeline Welding (SJP-31)	1			1			$\Box$	1 1			
Main line Welding	Align pipe with side boom	Crushing, pinching, struck by swinging loads		4		Pipeline Welding (SWP-49, Pipeline Welding (SJP-31)		2		1	₩.		- 1				
-	Pre-Heat Pipe Hook up clamps and space pipe	Burns, explosion, strains Pinching, strain		4		Pipeline Welding (SWP-49, Pipeline Welding (SJP-31) Pipeline Welding (SWP-49, Pipeline Welding (SJP-31)	2	2					+	4 4			
	Weld pipe	Burns, welder's flash, electric shock, eye injuries		4		Pipeline Welding (SWP-49, Pipeline Welding (SJP-31)  Pipeline Welding (SWP-49, Pipeline Welding (SJP-31)		2				-	+	<del>                                     </del>	+		
	Build skid piles	pinches, strains	2	4		Communication, keep hands clear while placing skids, safe lifting	2	1					ユ	7			
NDE X-Ray	Subcontract	Exposure to radiation		4		Radiation (SWP-15), Contractor Management (HSEMS-18)		1		17	7			7 7			
Install Pig catchers/senders	Lift pig sender/catcher with picker	Crushing, struck by swinging load, equipment damage	4	3		Pipe Handling (SWP-48), Pigging and Soap Testing (SJP-11)	2	2					1				

Segregation and   Segregation and   Segregation (Segregation (Segreg		Weld closure onto pipeline	Burns, welder's flash, electric shock, eye injuries	3 4	Pipeline Welding (SWP-49), Pigging and Soap Testing (SJP-11)	2	2			1 1	171	TT
Note   19 compared training   Control designation (seeing control factor)   2   2   3   3   3   3   3   3   4   5   5   5   5   5   5   5   5   5	Pigging/Soan teet									<del>                                     </del>	+++	+
Note   Test winds	r igging/ooap test									<del>                                     </del>	+++	+-+-
Call of glossest										<del>                                     </del>		
Perform Control (Control)   Control (Control										1 1		+
Materian functions   State	Joint Pren and Coating									1 1		1 1
Visit and dead Sincer Appealation   Dots, channel appealate, colored appealation   Dots, channel appealation   D	count i rop una couting									<del>                                     </del>	+++	+
Spring college   Control operation protect   1						2				<del>                                     </del>		
Ross and researt						2				<del>                                     </del>		
Changing Exercise Poolets   Start, apparent damage   2   3   Sequence decisions (Start Poolets   Start Sequence damage   2   3   Sequence decisions (Start Poolets   Start Sequence damage   3   3   Sequence decisions (Start Sequence damage   3   3   Sequence damage										<del>                                     </del>		
Repring with decrear	Ditching/Pinning									1		
Ripping with accurator    Ripping with accurator   Survey facilities, equipment dimage, injury from fight (self-in)   Survey facilities   Survey f	Ditering/Ripping					<u> </u>	† ·				+	+
Digging with acceptable   Surface (performed durange   3   3   Grand Distributions (COP-07), Ground Distributions (GOP-07), Ground Distributions (GOP-07)		Tupping Will dozor	Daniel Remarks, equipment damage	3 3	State Distribution (CO) or ), Crossia Distribution (CO) C2), Distributing and C Walling (CO) 40000	2	2					
Paging bell holes  Bured facilities, equipment durings  3 3 Grand Delutriance (COP-27), Ground Delutriance (SWP-46), Excending and or Trenching (SWP-46S,IP-30)  2 2 V V V V V V V V V V V V V V V V V		Ripping with excavator	Buried facilities, equipment damage, Injury from flying debris	3 3	Ground Disturbance (COP-07), Ground Disturbance (SWP-62), Excavating and or Trenching (SWP-46/SJP-30)	2	2			1		
Paging bell holes  Bured facilities, equipment durings  3 3 Grand Delutriance (COP-27), Ground Delutriance (SWP-46), Excending and or Trenching (SWP-46S,IP-30)  2 2 V V V V V V V V V V V V V V V V V		Digging with exceptor	Ruried facilities, equipment damage		Ground Disturbance (COP-07). Ground Disturbance (SWP-62). Excavating and or Trenching (SWP-46/S.IP-30).	+-	<del>  -</del>				+-+-	+-
Exposing hot line  Exposing hot line  Spotting floring mount does necessarily disrange, environmental release, explosion, federocation  4 4 Hydro Ver (SNP-20), Ground Debuthariane (SWP-40), Exceeding and or Terroching (SWP-405)P-30), 4 1 V V V V V V V V V V V V V V V V V V		Digging with excavator	Sanda taliitado, equipment damage	3 3	Stand Standards (SST ST), Standards Standards (STT -02), Exceeding and of Transming (STT -40/001 -00)	2	2			1		
Spotting bot lines  Spotti		Digging bell holes	Buried facilities, equipment damage	3 3	Ground Disturbance (COP-07), Ground Disturbance (SWP-62), Excavating and or Trenching (SWP-46/SJP-30)	2	2	1 1		7	1 /	
Spotting bot lines  Spotti				7 7		<u> </u>						+-+-
Install fincing around open exactions   Falls, strains   2   2   3   Ground Disturbance (COP-OT), Excessing and or Trenching (SWP-46S-SP-30).   2   2   2   3   4   1   4   4   4   4   4   4   4   4		Exposing hot line	Facility damage, environmental release, explosion, electrocution	4 4		4	1	1 1		1	<b> </b>	
		Spotting hot lines	Struck by equipment, explosion, falls	4 4	Ground Disturbance (COP-07), Ground Disturbance (SWP-62), Excavating and or Trenching (SWP-46/SJP-30)	2	2	1 1		4	1	
Jesping Holdey detection	Fencing	Install fencing around open exactions	Falls, strains	2 3	Ground Disturbance (COP-07), Excavating and or Trenching (SWP-46/SJP-30),	2	2				7	
pepPrimer   Tape and Prime   Chemical exposure, cuts,   2   3   Jeoging or Holding Detection (SJP-303)   1   1   1   7   7   7   7   1   2   3   3   Jeoging or Holding Detection (SJP-303)   2   2   3   Jeoging or Holding Detection (SJP-303)   3   Jeograph Weights (SWarapy Weights)   Damage to pipe, fail at same level and to lower,   3   3   3   Ground Disturbance (COP-07), Backfilling (SWP-46), Exavating and or Trenching (SWP-46), SJP-30)   2   2   2   7   7   7   7   7   7   7	Lower-In	Lower-in Pipeline	Crushing, damage pipe, Overloading equipment, fall from height	4 4	Lowering In Pipeline (SJP-02)	4	1				7	T
pe Weights Install   Pipe weights (Swamp Weights)   Damage to pipe, Injuries to personnel, was a part of the pipe of the stams the least of the personnel demands of the		Jeeping Holiday detection	Electrocution, pipe damage	2 3	Lowering In Pipeline (SJP-02), Jeeping or Holiday Detection (SJP-03)	1	1	1			7	T
Sading Damage to pipe, all at same level and to lowe.  Back fill Damage to pipe, and a same level and to lowe.  Back fill Damage to remain good for frenching (SWP-40), Excavating and or Trenching (SWP-40), Fill Damage fill D	Tape/Primer	Tape and Prime	Chemical exposure, cuts,	2 3	Jeeping or Holiday Detection (SJP-03)	1	1	1			7	T
Back fill Damage to pipe, environmental damage, pulse, environmental damage, burns, equipment (per pulsy, cuts, spring tensions) Tel- New Working in bell holds Cutting with pipe beveller Burns, Healf Radiation, Furnes, Free, Damage to pipe, Repetitive Strain Working in bell holds Executating and Tirenching (SWP-46), Ground Disturbance (COP-07) 2 2 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Pipe Weights install	Pipe weights (Swamp Weights)	Damage to pipe, injuries to personnel,	4 3		4	1			1	7	
Tech Wolds  Cutting with pipe beveller  Burns-Heal/Endation, Fumer, Free, paging to page, Repetitive Strain  Outring with pipe beveller  Burns-Heal/Endation, Fumer, Free, paging to page, Repetitive Strain  Working in bet Notes  Execution collapse, falling debries Strain  Working in bet Notes  Execution collapse, falling debries Strain  Working in bet Notes  Execution collapse, falling debries Strain  Working in bet Notes  Execution collapse, falling debries Strain  Working in bet Notes  Execution collapse, falling debries Strain  Working in bet Notes  Execution collapse, falling debries Strain  Working in bet Notes  Execution collapse, falling debries Strain  Working in bet Notes  Execution collapse, falling debries Strain  Working in bet Notes  Execution collapse, falling debries Strain  Working in bet Notes  Execution collapse, falling debries Strain  Working in bet Notes  Execution and Trenching (SIP-29),  To in to Existing Place (COP-QT)  2 2 2  V V V  Working in beth Notes  Strain Strain Strain  Working in beth Notes  Counting, supported demands, spills, collapse, falling debries  Working in beth Notes  Counting, supported demands, spills, collapse, spills, c	Shading/Backfill	Shading	Damage to pipe, fall at same level and to lower,	3 3	Ground Disturbance (COP-07), Backfilling (SWP-02), Excavating and or Trenching (SWP-46/SJP-30)	2	2			1	7	
Cutting with pipe beveller  Working in bell holes  Excavation collepse, failing debries, unever ground conditions, slips, failing  Hot Tapping  Hot Tapping  Loss of life, spiss, gas release, life, playings, facility damage  Hot Tapping  Hot Tapping  Loss of life, spiss, gas release, life, playings, facility damage  Hot Tapping  Hot Tapping  Loss of life, spiss, gas release, life, playings, facility damage  Hot Tapping  Hot Tapping  Loss of life, spiss, gas release, life, playings, facility damage  Hot Tapping  Loss of life, spiss, gas release, life, playings, facility damage  Hot Tapping  Hot Tapping  Loss of life, spiss, gas release, life, playings, facility damage  Hot Tapping  Loss of life, spiss, gas release, life, playings, facility damage  Hot Tapping  Loss of life, spiss, gas release, life, playings, facility damage  Hot Tapping  Loss of life, spiss, gas release, life, playings, facility damage  Hot Tapping  Loss of life, spiss, gas release, life, playings, facility damage  Hot Tapping  Loss of life, spiss, life, playings, facility damage  Hot Tapping  Loss of life, spiss, gas release, life, playings, facility damage  Hot Tapping  Loss of life, spiss, facility, expiss, facility, expiss, facility, expiss, facility, expiss, facility, expiss, facility, expi		Back fill	Damage to pipe, environmental damage, other equipment	3 3	Ground Disturbance (COP-07), Backfilling (SWP-02), Excavating and or Trenching (SWP-46/SJP-30)	2	2		1	<b>4</b>		
Working in bell holes Exewation collapse, failing debris, uneven ground conditions, sips, fails 4 3 Escavating and Trenching (SWP-46), Ground Disturbance (COP-07) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Line Tie-Ins	Tie-In Welds	Crushing, equipment damage, burns, engulfment, eye injury, cuts, spring tensions	4 3	Tie-In Welding (SJP-29),	3	1	1			7 7	
ht Tapping Loss of life, spills, gas release, fire, injuries, facility damage that sping (SJP-08) the Tapping (SJP		Cutting with pipe beveller	Burns, Heat/Radiation, Furnes, Fires, Damage to pipe, Repetitive Strain	3 4		2	2				7 7	
Riser Installs Riser Installs Crushing, equipment damage, burns, engulfment, eye injury, cuts, fails A 3 Pile Installation With excavator Crushing, Equipment damage, pile amage, pile ama		Working in bell holes	Excavation collapse, falling debris, uneven ground conditions, slips, falls	4 3	Excavating and Trenching (SWP-46), Ground Disturbance (COP-07)	2	2	1			7 7	7
Riser Installas	Hot Tapping	Hot Tapping	Loss of life, spills, gas release, fire, injuries, facility damage	4 4	Tie in to Existing Pipe System (SJP-25), Hot Tapping (SJP-08)	4	1	1			7 7	
The international content of the internationa		Riser Installs	Crushing, equipment damage, burns, engulfment, eye injury, cuts, falls	4 3		2	2	1			7 7	T
illway. Crossings-Water puplace Grades Use dozer to spread sub soil/sub grade Crushing, Equipment damage, spills, injuries to ground personnel 3 3 3 Ground Disturbance (COP-07), Backfilling (SWP-02) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Pile Installation with excavator	Crushing, Equipment damage, spills, cuts, buried facilities,	4 3	Pile Installation With Excavator (SJP-05)	4	1	1		1	7	T
papace Grades Use dozer to spread sub soil/sub grade Crushing, Equipment damage, spills, injuries to ground personnel Coultivating Crushing, Equipment damage, spills, injuries to ground personnel 3 3 3 Ground Disturbance (COP-07) Cuttivating Crushing, Equipment damage, spills, injuries to ground personnel 3 3 3 Ground Disturbance (COP-07) 2 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Crossings-Pipeline, Road & railway, Crossings- Water	Bore Support	Equipment damage, pipe damage, hearing damage, Environmental	3 3	Mechanical Mobile Equipment Operations (SWP-44), Cranes Hoists Lifting Devices (SWP-34)	2	2	1 1		1	1	
Cutivating Crushing, Equipment damage, spills, injuries to ground personnel, buried facilities 3 3 3 Ground Disturbance (COP-07) 2 2 2 V V V V V V V V V V V V V V V V	Replace Grades	Use dozer to spread sub soil/sub grade	Crushing, Equipment damage, spills, injuries to ground personnel	3 3	Ground Disturbance (COP-07), Backfilling (SWP-02)	2	2		1			T
Cuttivating Crushing, Equipment damage, spills, injuries to ground personnel, buried facilities 3 3 3 Ground Disturbance (COP-07) 2 2 2 V V V V V V V V V V V V V V V V			Crushing, Equipment damage, spills, injuries to ground personnel	3 3	Ground Disturbance (COP-07)	2	2	1		1	T /	
Seeding Rollover, wildfille attack, ankle injuries,  ROW cleanup Crushing, Equipment damage, spills, injuries to ground personnel 3 3 3  RTV (SWP-01) 2 2  ROW Cleanup Crushing, Equipment damage, spills, injuries to ground personnel 3 3 3  Pressure testing Pressure testing hydrostatic Spill (Regulatory), Integrity fallow, Integrity fal		Cultivating	Crushing, Equipment damage, spills, injuries to ground personnel, buried facilities	3 3	Ground Disturbance (COP-07)	2	2	<b>1</b>			<b>T</b>	T
Pressure testing Pressure testing hydrostatic Spill (Regulatory), Integrity failure, struck by hoses 4 4 4 Pressure Testing - Hydrostatic (SJP-09), QC/QA Procedures 3 1 1 7 7 7 7 1 7 7 1 7 7 7 7 7 7 7 7 7		Seeding		3 3	ATV (SWP-01)	2	2				1 1	1 1
Pressure testing Pressure testing hydrostatic Spill (Regulatory), Integrity failure, struck by hoses 4 4 4 Pressure Testing - Hydrostatic (SJP-09), OC/QA Procedures 3 1 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		ROW cleanup	Crushing, Equipment damage, spills, injuries to ground personnel	3 3		2	2	1			1 1	1 1
Pressure testing pneumatic Rupture of piping, struck by hoses 4 4 4 Pressure Testing - Pneumatic (SJP-10), CD/QA Procedures 3 1 1	Pressure testing		Spill (Regulatory), Integrity failure, struck by hoses	4 4	Pressure Testing - Hydrostatic (SJP-09), QC/QA Procedures	3	1	1 1	1		1 1	1 7
Final testing- Sizing pig & Methanol Inhibitor runs Chemical exposure, environmental impact, injury to workers,  3 4 Pressure Testing - Hydrostatic (SJP-09), QC/QA Procedures, Running Inhibitors Through Lines (SJP-26) 3 1				4 4		3	1	7 7	7		1 7	1 7
F-MOB Loading/unloading trucks Cuts, crushes, falls, strains, equipment damage 4 3 Loading Unloading Hauling Equipment (SWP-29), Cargo Securement (SWP-04), Material Handling (SWP-22) 3 1 1			Chemical exposure, environmental impact, injury to workers,	3 4	Pressure Testing - Hydrostatic (SJP-09), QC/QA Procedures, Running Inhibitors Through Lines (SJP-26)	3	1	1 1			<b>-</b>	
	DE-MOB	Loading/unloading trucks	Cuts, crushes, falls, strains, equipment damage	4 3	Loading Unloading Hauling Equipment (SWP-29), Cargo Securement (SWP-04), Material Handling (SWP-22)	3	1	1 1	1 1	<i>1</i>	, , ,	