

# Kennecott Utah Copper

## Standard work instruction

### Copperfield Wash Bay (2 Attendants)

Controlled document #:	MNSWI160-0024.1	Revision #:	1
File name:	Truck Wash SWI	Task #:	
Effective date:	11-10-2014	Document owner:	Maintenance
Site name:	Bingham Canyon Mine	Department:	Truck Wash

### Job description

The purpose of this Standard Work Procedure is to improve Safety and Reduce Hazards by improving Efficiency and Standardizing the Copperfield Truck Wash process across all crews. Prior to the beginning of Shift, the Supervisor is expected to ensure Truck Wash attendants are assigned, inspections are performed, and prep-work is complete prior to the arrival of the Truck to be washed to facilitate a Safe and Efficient Truck Wash procedure.

### Prep - work

#### Parts & Materials Required

- Wash Bay Checklist
- Fuel Level Acceptable
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#### Equipment Required

- Skidsteer
- Bucket Attachment
- Fork Attachment
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#### Tools Required

- Sledge Hammer
- Flat Head Shovel
- Round Head Shovel
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#### Permits Required

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#### PPE Required

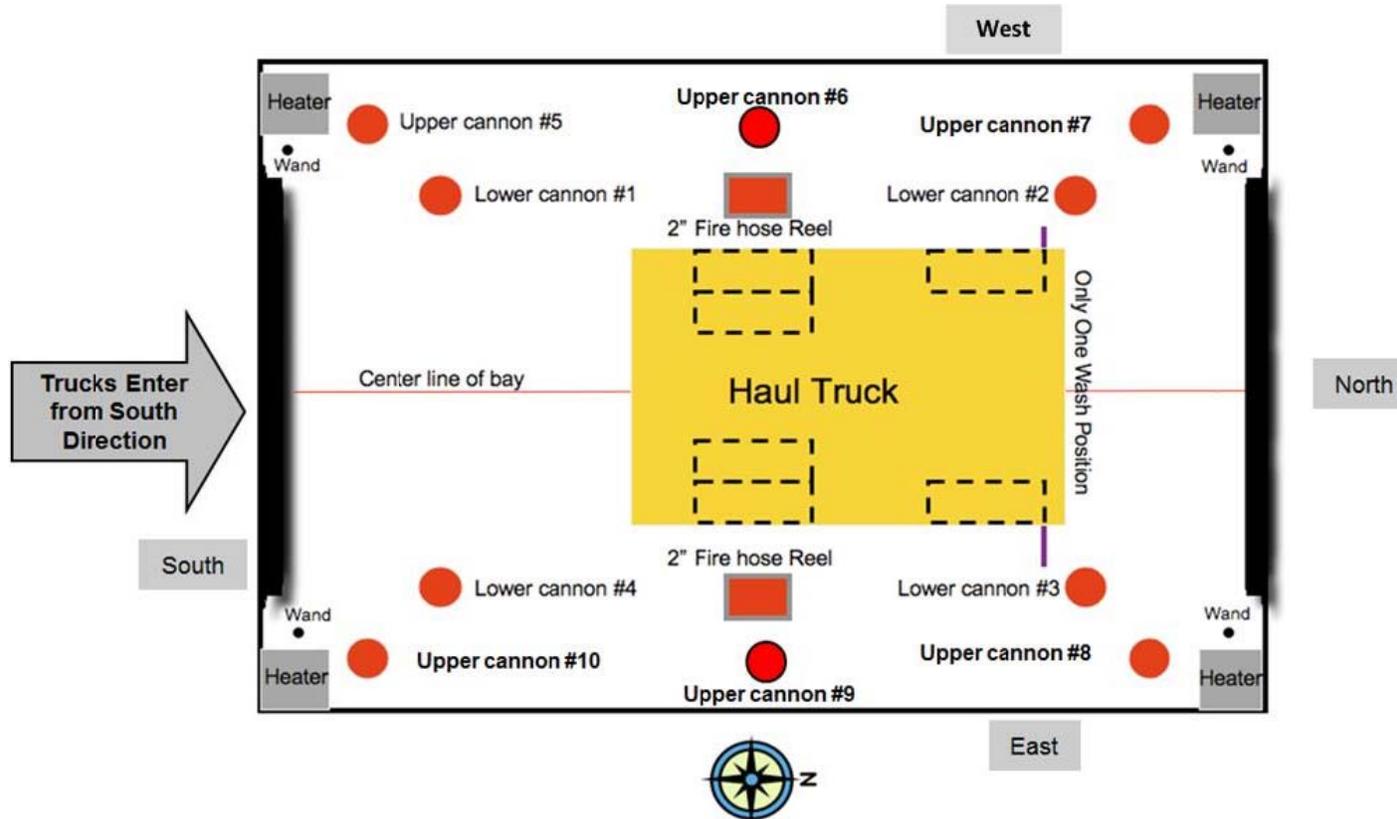
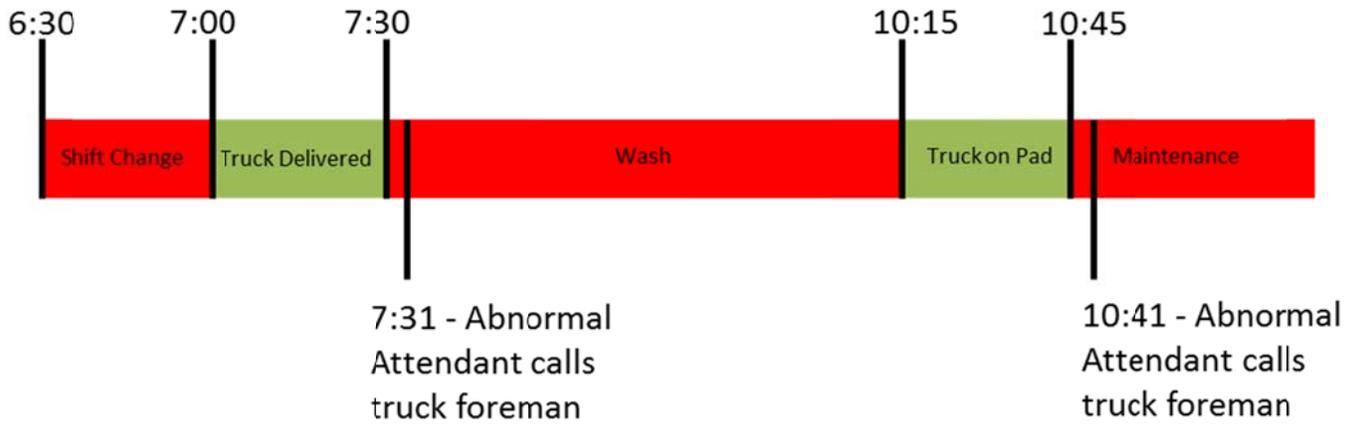
- Hard Hat
- Full seal Eye Protection
- Ear Protection
- Gloves
- Raingear (optional)
- Tyvex suit (optional)
- Rubber steel toe boots (optional)
- Over boots with cut heal (optional)
- Face Mask (optional)

## HSE hazards

All HSE hazards are analysed in a risk assessment, and the operational controls are identified in the appropriate work step.

Kennecott Risk Analysis Tool (KRAT):	RA #8481
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## Work instructions

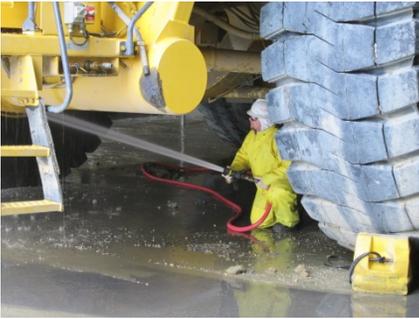


Step	Work Steps	Cycle time	Value add/ Non-value add	Visuals
1	Wash bay Preparation-Pre-Operation Inspections	20 min	NVA	
1.1	Inspect Wash bay  Note-Inspection book located inside Pumphouse near south door.		NVA	
1.2	Inspect Light Vehicle Wash bay  Note-Same Inspection sheet as above.		NVA	
1.3	Inspect Support Equipment (Skidsteer)  Note-Inspection book on the Skidsteer.		NVA	

Step	Work Steps	Cycle time	Value add/ Non-value add	Visuals
1.4	Inspect Support Equipment (Skidsteer) Attachments <ul style="list-style-type: none"> <li>- Bucket</li> <li>- Forks</li> </ul>		NVA	
<b>2</b>	<b>Haul Truck Arrival For Wash</b>		NVA	
2.1	Truck arrives to wash bay entrance pad. <p>Notes:</p> <ol style="list-style-type: none"> <li>1. Production should have wash tied in field unloaded above the crusher with <math>\geq 50\%</math> fuel.</li> <li>2. If safety meeting or weather will impact delivery of truck, truck supervisor must notify shop.</li> <li>3. Attendants required at the wash bay before truck arrives.</li> <li>4. Operator stays on truck if at all possible</li> <li>5. If no operator on the truck a wash attendant will man the truck.</li> <li>6. Operator on truck will call production to place haul truck on wash delay</li> <li>7. Truck should arrive by 7:30 and is late at 7:31. Call truck supervisor if truck is late.</li> </ol> <p>ATTD #2 Instructs the Truck Operator to raise and lower the bed emptying loose material from the bed to the ground before entering the Truck Wash.</p>		NVA	

Step	Work Steps	Cycle time	Value add/ Non-value add	Visuals
2.2	ATTD #1 Will Open Bay Door and Guide Haul Truck into the wash bay and instruct the operator on the truck to raise the bed.	6 min	NVA	 
2.3	Operator on the truck will shut haul truck down and exit cab.			
2.4	Once haul truck is in place ATTD# 2 will place wheel chocks. ATTD #1 will close bay door, enter wash bay and both attendants will place lock and tags on haul truck with operator performing try step. At this time operator will exit off the haul truck and leave the wash bay.	5 min	NVA	 
2.5	Both attendants will assist in securing the dump bed in place using an approved securing strap or cable.	5 min	NVA	

Step	Work Steps	Cycle time	Value add/ Non-value add	Visuals
2.6	ATTD# 1 will then place covers on haul truck exhaust and traction alternator intake vents.	2 min	NVA	
3	<b>Washing Outer Sides of Haul Truck</b>		NVA	*AVOID HITTING CO-ATTD AND FABRICATING TRANSDUCTIONS SHOOTSAT ALL COSTS*
3.1	ATTD# 1 will operate cannons on cab side of haul truck. ATTD# 2 will operate cannons on the blind side of the truck Starting from the front of the haul truck moving towards the rear in a sequential manner. Starting with the top half of the haul truck to moving to the bottom half.  <b>Note-Avoid Spraying co-attd and Fabric Transduction shoot's (Accordion Pipes). This causes immediate damage.</b>	52 min	NVA	
3.2	Once top of haul truck is complete both attendants will go to ground level and repeat the process. ATTD# 1 will operate cannons on cab side of truck. ATTD# 2 will operate cannons on blind side of truck.	25 min	NVA	

Step	Work Steps	Cycle time	Value add/ Non-value add	Visuals
	Note-Before proceeding on to the next step review wash check list provided by the maintenance department.			
<b>4</b>	<b>Washing Underneath Haul Truck</b>		NVA	
4.1	Set Cannons to soak the heavily soiled area while unattended. ATTD# 1 will set cannon on cab side of truck. ATTD# 2 will set cannon on blind side of truck.	15 min		
4.2	Both attendants will dress in needed (preferred) attire for operating fire hose and high pressure heated wands. ATTD# 1: High Pressure Heated Wands ATTD# 2: Fire Hose	15 min	NVA	
4.3	Attendants will start back to back starting from the middle of the haul truck working in a forward motion. ATTD# 1: Working from the middle moving towards the front of truck. ATTD# 2: Working from the middle moving towards the rear of the truck. Then reversing roles attending as needed.	46 min	NVA	
<b>5</b>	<b>Delivering Finished Truck To Copperfield</b>		NVA	

Step	Work Steps	Cycle time	Value add/ Non-value add	Visuals
5.1	Attendants at this time will make final inspection of work performed. If the work complete is acceptable and meeting “clean” standards both attendants will assist in the removal of the bed cable, exhaust and traction alternator intake covers, and remove lock and tags. Truck should be delivered to shop by 10:30. If wash will run late, let shop know & note contributing factors (damaged wash bay equipment, late delivery, etc.)	10 min	NVA	
5.2	ATTD# 1: Open entry door to wash bay. ATTD# 2: Open exit door to wash bay.	3 min	NVA	
5.3	ATTD# 1: Starts haul truck (leave idling 20 min if needed for alternator housing. Mechanic will determine this) ATTD# 2: Turns on cannons # 1&2 pointing both cannons towards the centre to begin clean up.	20 min	NVA	
5.4	ATTD# 1: Delivers haul truck to necessary bay at Copperfield Truck Shop. ATTD# 1: Call production control on Channel #1 “Mine Ops” to have haul truck placed on proper delay code.	6 min	NVA	
<b>6</b>	<b>Wash Bay Cleaning</b>		NVA	
6.1	ATTD# 2 will resume cleaning by using cannons 2 and 4 spraying all material and debris towards the East side of the bay.		NVA	
6.2	ATTD#1 upon returning from delivering haul truck will operate skidsteer with bucket attachment equipped pushing all large material out of the wash bay thru the entry door. If there is a large quantity of material, call for the grader to remove it.		NVA	
6.3	Check the Trash bin, and empty if it is full. Replace bucket attachment with fork attachment and empty out trash bin in the refuse container on the east side of the Copperfield shop.		NVA	

Step	Work Steps	Cycle time	Value add/ Non-value add	Visuals
6.4	At this time both attendants will assist with clean-up of wash bay using cannons # 1,2,5,6,&7 pushing all left over material thru the drainage hole located on the East wall.		NVA	
6.5				
<b>7</b>	<b>Shutting Down Wash Bay</b>		NVA	
7.1	Shut off all cannons and sprayers		NVA	
7.2	Shut off all lights		NVA	
7.3	Shut off heater or A/C		NVA	
7.4	Shut off all pumps		NVA	
7.5	All notifications entered. Water Service is responsible for all hardline plumbing, pump house & cannons. KOS is responsible for hotsys, fans, & building.		NVA	

## Responsibilities

Role	Responsibilities
Operator	Follow this work instruction and inform leader of improvements or inability to perform work.
Supervisor/Leader	Create the work standard and teach it to operators. Ensure that operators follow the work standard. Take action when operators ask for help and suggest improvements. Revise the work standard.
Superintendent	Confirm that line leaders are implementing standard work.

## Reference material

Document reference	Document title
MNSOP160-0024 Copperfield Haul Truck Wash	STANDARD OPERATING PROCEDURE COPPERFIELD HAUL TRUCK WASH
MNSOP10340-0033 COPPERFIELD SHOP WASH FACILITY PUMP HOUSE	STANDARD OPERATING PROCEDURE COPPERFIELD SHOP WASH FACILITY PUMP HOUSE

## Revision history

MOC #	Description of change	Prepared by	Date
26318	Develop SWI	Lean Team #13 Gordon Eckersley	6/18/2014
26662	Add traction alternator cover instructions. <b>Next review by 10-2019.</b>	Kyle Hymas	8/18/2014