

Inspection Number: 169306
File Number:
Permit Number: G-4-188
Total Orders: 0
Mine Number: 1620313

Report of Inspector of Mines - Health and Safety

Issued pursuant to Section 15 of the Mines Act

Mine Name/Number	Westside Pit 1620313	Visit Date	2021-05-12
Type of Mining	BCL	Location	
Latitude/Longitude	51.02194, -118.2227	Northing/Easting/Zone	414245, 5652976, 11U
		Permittee	Terus Construction Ltd.
Inspector	Jerrold Jewsbury, INSPECTOR	Accompanying Inspector	Haley Kuppers, Inspector;
Address	202-100 Cranbrook Street North Cranbrook, B.C. V1C 3P9		
In Attendance	Corey Rokosh, Site manager, TERUS; Jordan Leroy, New Site Manager, TERUS		
Copies to			

The Mine Manager is required to provide a written response within 15 business days of receiving the inspection report. The Manager's response must outline the remedial steps taken by a specified date and the work still outstanding. A copy must be provided to the inspector, and in the case of health and safety matters, the occupational health and safety committee and the local union. Appeals to a decision, order or ruling must be made in writing to the Chief Inspector within 30 days after the issue date of the inspection report. In this document, Code means Health, Safety and Reclamation Code for Mines in British Columbia.

Introduction

This inspection report is the result of a health and safety compliance verification at Westside pit on May 12th, 2021

Preamble

During this inspection I, Jerrold Jewsbury inspector of mines was accompanied by Inspector Haley Kuppers. Together we were following up on a number of residential complaints that have occurred over the years and more over the recent weeks as projects start their seasonal work. At site we met up with Mr. Rokosh and Mr. Leroy to discuss current operations and the upcoming summer's activity.

Area Inspected 1: The gravel pit and surrounding stock piles

Latitude/Longitude:	Northing/Easting/Zone:
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It was observed at the time of the visit there was no active crushing plant on site, through discussion with the site manager it was stated there will not be anymore crushing activity at the Westside S&G pit and only material will be removed from the existing stockpile until they are exhausted. Once complete, managers will work with the permitting groups over the next approx. 3 year period with the reclamation process.

Current operations will see the stockpiles sprayed with an organic compound to mitigate dust from migrating off the piles as well the roads that are required will be sprayed with Mag-chloride to help suppress the dust off the roads that will be travelled by haul trucks as they are loaded and leaving site. Delineation barriers will be placed in locations to minimize wide use of the site and minimize dust.



Image #1 - overview of pit and stock piles.



Image #2 - showing dust suppression material on the roads.



Date & Time: Fri, Jul 30, 2021, 07:53:19 PDT
Position: +051°1.3831' / -118°13.3525' (Error)
Altitude: 455m (Error)
Datum: WGS-84
Azimuth/Bearing: 088° N88E 1564mils True ($\pm 35^\circ$)
Elevation Angle: -05.0°
Horizon Angle: -00.7°
Zoom: 1.0X
gate was open at time of visit

A photograph of a dirt road leading into a forest. The road is made of light-colored gravel or dirt and has tire tracks. On either side of the road, there are yellow wooden gates. The forest is composed of tall, dark evergreen trees. The sky is overcast and grey. In the foreground, there are some concrete blocks or barriers on the right side of the road.

Inspector	Manager Initials	Report Date: 2021-08-04
Jerrold Jewsbury		



Image #5 - Signage in place as per code.



Image #6 - more dust suppression



Image #7 - Dust suppression continued.

Received by _____ on _____
[Mine Manager Name, Title] [Date]

Signature: _____

Inspection Number: 178143
File Number:
Permit Number: G-4-188
Total Orders: 0
Mine Number: 1620313

Report of Inspector of Mines - Health and Safety

Issued pursuant to Section 15 of the Mines Act

Mine Name/Number Westside Pit 1620313

Visit Date 2021-09-22

Type of Mining BCL

Location

Latitude/Longitude 51.02194, -118.2227

Northing/Easting/Zone 414245, 5652976, 11U

Permittee Terus Construction Ltd.

Inspector Joel Woodfin, INSPECTOR

Accompanying Inspector Matthew Rota, Inspector;

Address 202-100 Cranbrook Street North
Cranbrook, B.C. V1C 3P9

In Attendance

Copies to Matthew Rota

The Mine Manager is required to provide a written response within 15 business days of receiving the inspection report. The Manager's response must outline the remedial steps taken by a specified date and the work still outstanding. A copy must be provided to the inspector, and in the case of health and safety matters, the occupational health and safety committee and the local union. Appeals to a decision, order or ruling must be made in writing to the Chief Inspector within 30 days after the issue date of the inspection report. In this document, Code means Health, Safety and Reclamation Code for Mines in British Columbia.

Introduction

An inspection of mine # 1620313 (Westside Pit) was conducted by the Ministry of Energy, Mines and Low Carbon Innovation on September 22, 2021. This was a planned inspection conducted by Joel Woodfin-Inspector of Mines and Matthew Rota-Inspector of Mines. This report contains observations made by the inspectors. There are no outstanding requirements of the Permittee and/or Mine Manager at this time.

General Area Observations: The entire mine site

Latitude/Longitude:

Northing/Easting/Zone:

The site was in active and in good condition. Pit walls and stockpiles were sloped appropriately. Signage was in place and there were appropriate access controls in place. The weather was rainy and dust was not a concern on site.

Area Inspected Attachments:

Inspector

Manager Initials

Report Date: 2021-10-06

Westside Pit

Joel Woodfin

Mine No. 1620313



Westside Pit



Westside Pit



Westside Pit



Westside Pit

Closure

Please provide responses, initial and sign the report, and return to Joel Woodfin, Inspector of Mines (joel.woodfin@gov.bc.ca).

Received by _____ on _____
[Mine Manager Name, Title] [Date]

Signature: _____

Inspection Number: 188318
File Number:
Permit Number: G-4-188
Total Orders: 0
Mine Number: 1620313

Report of Inspector of Mines - Health and Safety

Issued pursuant to Section 15 of the Mines Act

Mine Name/Number	Westside Pit 1620313	Visit Date	2022-05-09
Type of Mining	BCL	Location	
Latitude/Longitude	51.02194, -118.2227	Northing/Easting/Zone	414245, 5652976, 11U
		Permittee	Terus Construction Ltd.

Inspector Jerrold Jewsbury, INSPECTOR **Accompanying Inspector**

Address 202-100 Cranbrook Street North
Cranbrook, B.C. V1C 3P9

In Attendance Jordan Leroy, Mine Manager, Terus

Copies to

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Introduction

This report is the result of a health and safety compliance verification conducted at the (Terus Construction) West side Pit on Monday, May 9th, 2022

Preamble

During the inspection I, Jerrold Jewsbury inspector of mines met up with the mine manager (Jordan LeRoy) to discuss the summer activities regarding hauling from stock piles, fugitive dust management and activity in the newly permitted area closest to the main road.

General Area Observations: Entrance to the operation

Latitude/Longitude:	Northing/Easting/Zone:
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It was observed;

1. Terus has moved the weight scale closer to the entrance of the operation to encompass both operations that material could be leaving. It was discussed to ensure the Cranbrook office is made aware of the move in case there could be possible issues with the permit and an amendment is required.
2. Trees in the newly permitted area have been fallen and piled up for removal
3. The plan as discussed for dust control will be calcium being put down in the areas of travel. This will be happening as soon as possible when the site gets a break from the rain.

Inspector	Manager Initials	Report Date: 2023-01-11
Jerrold Jewsbury	<div></div>	

Westside Pit
Mine No. 1620313

Received by _____ on _____
[Mine Manager Name, Title] [Date]

Signature: _____

A wide-angle photograph of a large, barren, light-brown hillside, likely a former quarry or construction site. The hillside shows signs of erosion and is devoid of vegetation. In the background, a dark, forested mountain range is visible under a cloudy sky. The foreground is a flat, sandy area with tire tracks.

A white Ford pickup truck is shown from a front-three-quarter view. The front end is severely damaged, with the hood crumpled and the grille area crushed. The truck has a yellow 'SPL' decal and the word 'SALES' below it on the driver's side door. An orange emergency light is mounted on the roof. The truck is parked on a dirt surface, and a large pile of gravel is visible in the background.

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[illegible]

Advisory 189898-S1-A1

Start/Stop notice:

Be advised that the HSRC places expectations on the manager to notify this Ministry regarding the Start or Stop of work at a mine site. To be clear; the intermittent removal of stockpiled material does not warrant a Start notification.

Pursuant to Section 6.2.1 of the HSRC; the manager shall give 10 days notice to an inspector of intention to start work in, at, or about a mine, including seasonal reactivation.

Pursuant to Section 6.2.2 of the HSRC; the manager shall give notice to an inspector of intention to stop work in, at, or about a mine, permanently, indefinitely, or for a defined period.

The Start/Stop notification can be sent to MMD-Cranbrook@gov.bc.ca or 250-417-6134

Advisory Response:

Respond Date:

Advisory 189898-S1-A2

The height of a few of the stockpiles are nearing the point where it is beyond 2 meters of the reach of the equipment on site.

Surface Mine Faces and Bench Heights:

HSRC Section 6.23.3 - No part of a face or wall of a surface mine shall overhang.

HSRC Section 6.23.4 - Where material is being worked or removed, the vertical component of the mining face shall not be greater than 2 meters beyond the reach of the loading equipment.

Advisory Response:

Respond Date:

Request 189898-S1-R1

A pick-up truck, #104928, was observed to have extensive damage inside the mine site. Please clarify by June 29th, 2022, as to how and when this damage happened. See images 1 --> 3.

Request Response:

Respond Date:

Closure

Please initial, provide comments if necessary and sign the report. Return the report within 15 business days to Matthew.Rota@gov.bc.ca. Please provide photos when responding to orders.

Received by _____ on _____
[Mine Manager Name, Title] [Date]

Signature: _____

Inspection Number: 196456
File Number:
Permit Number: G-4-188
Total Orders: 5
Mine Number: 1620313

Report of Inspector of Mines - Health and Safety

Issued pursuant to Section 15 of the Mines Act

Mine Name/Number Westside Pit 1620313

Visit Date 2022-09-14

Type of Mining BCL

Location

Latitude/Longitude 51.02194, -118.2227

Northing/Easting/Zone 414245, 5652976, 11U

Permittee Terus Construction Ltd.

Inspector Jerrold Jewsbury, INSPECTOR

Accompanying Inspector Chris LeClair, Inspector;

Address 202-100 Cranbrook Street North
Cranbrook, B.C. V1C 3P9

In Attendance

Copies to

The Mine Manager is required to provide a written response within 15 business days of receiving the inspection report. The Manager's response must outline the remedial steps taken by a specified date and the work still outstanding. A copy must be provided to the inspector, and in the case of health and safety matters, the occupational health and safety committee and the local union. Appeals to a decision, order or ruling must be made in writing to the Chief Inspector within 30 days after the issue date of the inspection report. In this document, Code means Health, Safety and Reclamation Code for Mines in British Columbia.

Introduction

During the inspection I was accompanied by Chris LeClair- Senior Inspector of Mines, Cynthia Robinson- Inspector of Mines in training.

Preamble

- Site was gated but unlocked upon our arrival to site.
- Notice to this effect signage was in place and clearly visible. (at the gate and posted around the entire perimeter of the site)
- Scales at the front gate for measuring the weight of trucks as they leave site.
- Speed limit signs were in place and radio communication channel
- Site was very clean and organized
- all stock piles were well sloped, free flowing and at rest
- Only one piece of equipment on site at the time of inspection - (CAT 950F Loader) Loader being used by truck drivers as they load themselves when they arrive to the sites stockpiles
- Met with Truck driver s.22 from Elite Excavation as he arrived to load his truck.

General Area Observations: General Pit Inspection

Latitude/Longitude:

Northing/Easting/Zone:

During the Inspection the inspector Noted

- Areas of the site lacked code compliant shoulder barriers / Berms
- 950 Cat Loader on site without a handheld fire extinguisher

Inspector

Manager Initials

Report Date: 2023-01-25

Westside Pit

Jerrold Jewsbury

Mine No. 1620313

- 950 Cat Loaders Pre op book was outdated to Sept 2021 (inspector intervened with Elite Excavation arrived and asked for a pre trip inspection to take place)
- Loaders back up alarm and Horn does not work / Missing articulation lock out pin and the secondary egress safety ladder is broken off.
- Truck driver was not wearing code compliant PPE. (Inspector intervened and had discussion on site)

Order 196456-S1-O1 (Inspection Mines):

Status: Closed

Issued Pursuant To: Mines Act Section 15(4)

Section 6.9.1, Health, Safety and Reclamation Code for Mines in BC (MA), Haulage Road Width

Observation of Contravention:

During the inspection the Inspector Noted that there were areas that needed shoulder barriers / berms in place.

HSRC 6.9.1 The manager shall prepare a plan pursuant to section 10 (1) of the Mines Act which

- (1) Shows the type and method of construction for haulage roads that are to be constructed at the mine site.
- (2) Except for roads constructed prior to 1990, the manager shall ensure that haulage roads are designed, constructed and maintained to provide
 - (a) a travel width where dual lane traffic exists, of not less than 3 times, or where single lane traffic exists, of not less than 2 times the width of the widest haulage vehicle used on the road, and
 - (b) a shoulder barrier
 - (i) at least 3/4 of the height of the largest tire on any vehicle hauling on the road,
 - (ii) of a construction or a specification that is in general conformance to accepted engineering practice,
 - (iii) located and maintained along the edge of the haulage road wherever a drop-off greater than 3 m exists, and
 - (iv) incorporating breaks that do not exceed the width of the blade of the equipment constructing and maintaining the breaks to allow for drainage and snow clearance.
- (3) For the purpose of subsection
 - (2) (a), the width of the barrier referred to in subsection
 - (2) (b) shall be excluded from the travel width.

Remedial Action/Results To Be Obtained:

order Pursuant to HSRC 6.9.1 (b) a shoulder barrier

- (i) at least 3/4 of the height of the largest tire on any vehicle hauling on the road,
- (ii) of a construction or a specification that is in general conformance to accepted engineering practice,
- (iii) located and maintained along the edge of the haulage road wherever a drop-off greater than 3 m exists, and
- (iv) incorporating breaks that do not exceed the width of the blade of the equipment constructing and maintaining the breaks to allow for drainage and snow clearance.

To be rectified by Sept 24 -2022 Photo required upon completion

(Inspector reached out to manager Jordan Laroy and discussed areas of concerns and sent photographs).

Rectify By/Completion Date: 2022-09-24

Order 196456-S1-O3 (Inspection Mines):

Status: Closed

Issued Pursuant To: Mines Act Section 15(4)

Section 4.9.15, Health, Safety and Reclamation Code for Mines in BC (MA), Securing of Equipment

Observation of Contravention:

During the inspection the inspector noted that the pin for the articulation lock out bar was missing for the 950f Cat Loader.

Securing of equipment

HSRC 4.9.15 No person shall place themselves under the raised box of a dump truck, bulldozer blade, scraper blade, loader bucket or similar equipment unless it is securely and adequately blocked or otherwise secured independently of normal operating controls with suitable equipment that is designed for that purpose.

Remedial Action/Results To Be Obtained:

Order pursuant to HSRC 4.9.15 Them mine manager shall ensure that the piece of equipment can be adequately blocked or otherwise secured independently of normal operating controls with suitable equipment that is designed for that purpose.

To be rectified by Oct 5-2022

Rectify By/Completion Date: 2022-10-05

Manager Response:

(If your response doesn't fit here, please attach a document.)

Order 196456-S1-O4 (Inspection Mines):

Status: Closed

Issued Pursuant To: Mines Act Section 15(4)

Section 6.19.2, Health, Safety and Reclamation Code for Mines in BC (MA), Logbook to be Maintained

Observation of Contravention:

During the inspection The inspector noted that the entry into the pre trip log book in the 950F Cat loader was outdated to Sept 2021.

Logbook to be Maintained

HSRC 6.19.2 - The manager shall provide and maintain an effective logbook system for each unit of mobile equipment over 7000 kg gross vehicle weight where

- (a) the vehicle operator notes the operating condition prior to operating of the vehicle
- (b) note any unsafe conditions, and
- (c) a qualified person making repairs, notes any repairs made and if the vehicle is safe to operate.

Remedial Action/Results To Be Obtained:

Order pursuant to HSRC 6.19.2 - The manager shall provide and maintain an effective logbook system for each unit of mobile equipment over 7000 kg gross vehicle weight.

To be rectified by Oct 5-2022

Rectify By/Completion Date: 2022-10-05

Manager Response:

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(If your response doesn't fit here, please attach a document.)

Order 196456-S1-O5 (Inspection Mines):

Status: Closed

Issued Pursuant To: Mines Act Section 15(4)

Observation of Contravention:

During the inspection the inspector note that the horn and backup alarm was not working on the Cat 950f loader.

Back-up Alarm

HSRC 4.9.1 (1) The manager shall ensure that every unit of rubber tired mobile equipment in regular use at a mine in excess of 7000 kg gross vehicle weight is equipped with a back-up alarm which meets the requirements of SAE J-1446 and SAE J-994. Underground mobile equipment designed for bi-directional use shall be excluded from this requirement.

(2) The alarm shall be clearly audible above the background noise at the workplace and it shall continue as long as the equipment is moving in reverse.

(3) Mobile equipment operating in a mine may use a visual back-up alarm in place of an audible back-up alarm providing that the visual back-up alarm complies with the following criteria:

- (a) the light shall be clearly visible above the usual daily light levels,
- (b) actuation of the alarm shall be completely independent of the operator, and
- (c) the light shall flash as long as the vehicle transmission is in the reverse position.

Remedial Action/Results To Be Obtained:

order pursuant to HSRC 4.9.1 (1) The manager shall ensure that every unit of rubber tired mobile equipment in regular use at a mine in excess of 7000 kg gross vehicle weight is equipped with a back-up alarm which meets the requirements of SAE J-1446 and SAE J-994. Underground mobile equipment designed for bi-directional use shall be excluded from this requirement.

To be rectified by Oct 12 - 2022

Rectify By/Completion Date: 2022-10-12

Manager Response:

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(If your response doesn't fit here, please attach a document.)

Advisory 196456-S1-A1

During the inspection the Inspector noted that the contractor on site was not wearing the code compliant PPE for a mine site. Please be advised to have a PPE discussion with contractors.

Workers Responsibility

HSRC 1.8.2 All persons shall wear the personal protective equipment as required by the code.

Protective Hat

HSRC 1.8.3 A protective hat complying with the relevant requirements of CSA Standard Z94.1-M 1977 Industrial Protective Headgear, and suitable for the type of work or activity being performed, shall be worn by persons where there is a risk of head injury or where required by the manager or an inspector. Where conditions may cause the hat to be accidentally dislodged

- (1) a device shall be incorporated into the hat and worn in order to prevent the hat being dislodged during a fall, and
- (2) in the case of underground work, a chin strap and hearing protection muffs attached to the hat shall be worn.

Protective Footwear

HSRC 1.8.4 Protective footwear complying with the relevant requirements of CSA Standard Z195-M1984 Protective Footwear, and suitable for the type of work or activity being performed, shall be worn by persons where there is a risk of foot injury or where required by the manager or an inspector.

Eye Protection

HSRC 1.8.5 Properly fitting goggles, face shields, or other eye protective equipment complying with the relevant requirements of CAN/CSA Standard Z94.3-M88 Industrial Eye and Face Protectors, and suitable for the type of work or activity being performed, shall be worn by a person who

- (1) is handling or is exposed to any material which is likely to injure or irritate the eyes,
- (2) is engaged in any work in which there is a risk of eye injury,
- (3) has 20/200 vision or is blind in either eye, or
- (4) is working or passing through an area which the manager or inspector has designated as requiring such protection

Advisory Response:

Respond Date:

Received by _____ on _____
[Mine Manager Name, Title] [Date]

Signature: _____

2021-06-15	???	Inspection/Visit	JEWSBURY /HENNING/RITCHIE		Inspections in the Revelstoke area, Complaint came through while inspectors were on Westside Pit location	JEWSBURY					
2021-09-13	???	Inspection/Visit	JEWSBURY		JEWSBURY was in Revelstoke area conducting other site inspections, a drive by was completed and a brief discussion with the mine manager.	JEWSBURY	Jewsbury was in Revelstoke for (x3) days conducting inspections in the surrounding area				
2021-10-05	???	Inspection/Visit	JEWSBURY		JEWSBURY was in Revelstoke area conducting other site inspections, a drive by was completed and a brief discussion with the mine manager.	JEWSBURY	JEWSBURY was in Revelstoke conducting surrounding area inspections				
2022-05-13	???	Inspection/Visit	JEWSBURY		Inspector JEWSBURY, Drive by of the West side pit before proceeding through Revelstoke to Cranbrook	JEWSBURY					
2022-06-08	???	Inspections/Visit	ROTA		Inspector ROTA was in the Revelstoke area conducting inspections on multiple sites. One of which was the KIRKUP Pit which is operated by TERUS Construction	ROTA					
2022-07-28	???	Inspections/Visit	ROTA		Inspector ROTA was conducting inspections in the Revelstoke area. Part of the regional protocols in place when in the area is to conduct a drive by of the TERUS pits.	ROTA					
2022-08-09	???	Inspection/Visit	JEWSBURY		Inspector JEWSBURY in Revelstoke prepare for SE region Inspection blitz (X2)days, Site drive by	JEWSBURY					
2022-09-12	ALL WEEK	INSPECTION BLITZ	EMLI		During this week multiple inspectors were in the Revelstoke area as part of the SE region inspection blitz. (x2) inspector were assigned as part of their blitz prep to both TERUS sites (65 inspectors in total)	JEWSBURY	September 12-16, 2022				
2022-11-03	???	Inspection/Visit	JEWSBURY		Inspector JEWSBURY conducted a drive by of the pit on the way through before proceeding to Cranbrook from Kamloops (Blasting Conference)	JEWSBURY					