

Workplace Health and Safety Fatality Report



WORKER RUN OVER BY GRAVEL TRUCK

Date of Incident: June 22, 2007

Type of Incident: Fatal

TABLE OF CONTENTS

PAGE NUMBER

SECTION 1.0	DATE AND TIME OF INCIDENT	3
SECTION 2.0	NAME & ADDRESS OF PRINCIPAL PARTIES - Owner(s) - Prime Contractor - Employer(s) - Worker(s) - Others	3
SECTION 3.0	DESCRIPTION OF PRINCIPAL PARTIES	3
SECTION 4.0	LOCATION OF INCIDENT	4
SECTION 5.0	EQUIPMENT, MATERIAL AND OBSERVATIONS	4
SECTION 6.0	NARRATIVE DESCRIPTION OF INCIDENT	4
SECTION 7.0	ANALYSIS	6
SECTION 8.0	FOLLOW-UP/ACTION TAKEN	6
SECTION 9.0	SIGNATURES	8
SECTION 10.0	ATTACHMENTS	8

Section 1.0 DATE AND TIME OF INCIDENT

1.1 June 22, 2007 at approximately 4:15 p.m.

Section 2.0 NAME & ADDRESS OF PRINCIPAL PARTIES

2.1 Owner/ Employer

2.1.1 Four Star Gravel & Concrete Ltd.
9816 – 44 Street S.E.
Calgary, Alberta
T2C 2N4

2.2 Worker

2.2.1 (Names and personal details were removed before distribution of this report)
Calgary, Alberta
T2A 5N5

2.3 Others

2.3.1 Calgary Police Services
133-6th Avenue S.E.
Calgary, Alberta
T2G 4Z1

Section 3.0 DESCRIPTION OF PRINCIPAL PARTIES

3.1 Four Star Gravel & Concrete Ltd. specializes in basement preparation and other concrete work in the residential construction industry. It is a Calgary based company with approximately 50 employees.

At the time of the incident the Four Star Gravel & Concrete Ltd's crew was in the process of pulling a stuck gravel truck out of a mud pool near a residential construction site

3.2 The worker was a general labourer who had been with Four Star Gravel & Concrete Ltd for three months. He had performed similar work pulling stuck gravel trucks out of mud pools at other locations.

Section 4.0 LOCATION OF INCIDENT

- 4.1 The incident occurred in the backyard of newly constructed houses located near Saddle Crest Blvd. and 68 Street in North East Calgary (Refer to Appendix A-Map and Appendix B-Photographs 1 and 2).

Section 5.0 EQUIPMENT, MATERIAL AND OBSERVATIONS

5.1 Equipment and Material

- 5.1.1 The gravel truck involved in the incident was a Mack Granite CV713 equipped with a Stoneslinger and was loaded with gravel. The vehicle owned by Four Star Gravel & Concrete Ltd. had identification number 1M2AGA2C05M025215. The gross weight of the gravel truck was 27300 Kilograms (Refer to Appendix B-Photographs 3 and 4).
- 5.1.2 The Vehicle Mechanical Report prepared by the Calgary Police Service did not identify any mechanical defects in the gravel truck, related to the incident.
- 5.1.3 The towing strap used to pull the gravel truck out of the mud pool was two ply, 5.8 metres long, 10.2 centimetres wide (Refer to Appendix B- Photograph 5).
- 5.1.4 A freightliner dump truck was used to pull the stuck gravel truck out of the mud pool.

5.2 Observations

- 5.2.1 The bracket that attached the towing strap to the gravel truck was half way open.
- 5.2.2 It was a clear and sunny day with a temperature of approximately 25 °C

Section 6.0 NARRATIVE DESCRIPTION OF INCIDENT

- 6.1 On June 22, 2007, approximately at 3:50 p.m., the gravel truck arrived in the back alley of a row of houses under construction to deliver a load of gravel to 156 Saddlecrest Gardens in North East Calgary. The lead hand and the labourer were waiting at the location to receive the load of gravel.
- 6.2 The driver backed the gravel truck along the back alley and into a mud pool. The gravel truck got stuck in mud pool. The driver managed to move the truck forward and laid some gravel over the mud pool. He then proceeded to back the gravel truck again into position to deliver the gravel to the house. The lead hand told the driver

that the gravel truck was too far away from the house to deliver the gravel.

- 6.3 The driver moved the gravel truck forward and backed up again to get closer to the house. The driver was backing up the gravel truck over the mud pool where no gravel had been laid over the mud. The gravel truck got stuck and the driver could not drive it out of mud pool.
- 6.4 A dump truck that was on location was brought into the back alley, and positioned nose to nose with the gravel truck stuck in mud. The labourer connected the front end of the stuck gravel truck to the front end of the dump truck with a tow strap. The dump truck driver backed up and the gravel truck was pulled out of the mud pool.
- 6.5 The labourer removed the tow strap from the front end of the dump truck. He then signalled the driver of the dump truck to move his dump truck. The dump truck driver backed his dump truck out of the back alley.
- 6.6 The driver watched the dump truck moving out of the back alley and moved his gravel truck forward without looking at the labourer. The labourer was removing the tow strap attached to the gravel truck under the front end.
- 6.7 The driver noticed that he could not see the labourer in his rear view mirror. After moving forward approximately 5 metres, he stopped the gravel truck and walked to the back of the gravel truck. He saw the labourer lying dead on ground.
- 6.8 The driver ran over to the dump truck which was parked on the paved road and told the dump truck driver that the labourer had been run over by his gravel truck. The dump truck driver called the Emergency Medical Services (EMS) who arrived on the scene and found the labourer dead at the scene.

Section 7.0 ANALYSIS

7.1 Direct Cause:

The labourer was run over by the gravel truck.

7.2 Contributing Factors:

- 7.2.1 There was no communication between the gravel truck driver and the labourer before the driver moved his gravel truck forward.
- 7.2.2 The driver, prior to moving his gravel truck forward, did not see the labourer who was removing the tow strap from the front end of his gravel truck.

- 7.2.3 No hazard assessment had been performed for pulling a stuck gravel truck, out of a mud pool.

Section 8.0 FOLLOW-UP/ACTION TAKEN

8.1 Alberta Employment, Immigration and Industry

- 8.1.1 On June 22, 2007, Workplace Health and Safety (WHS) received an incident notification. Occupational Health and Safety Officers responded to the scene and commenced an incident investigation on the same day.
- 8.1.2 WHS issued an order requiring the employer to conduct an incident investigation and prepare a report.
- 8.1.3 WHS issued an order requiring the employer to conduct a hazard assessment for pulling a stuck gravel truck out of a mud pool.
- 8.1.4 WHS issued a stop work order until employer conducted a hazard assessment for pulling a stuck gravel truck out of a mud pool and workers are trained in safe work procedures for similar situations

8.2 Industry

- 8.2.1 The employer conducted an incident investigation and submitted a report to WHS for review.
- 8.2.2 The employer conducted a hazard assessment for pulling a stuck gravel truck out of a mud pool.
- 8.2.3 Employer developed safe work procedures for pulling a stuck gravel truck out of a mud pool.
- 8.2.4 The employer complied with all orders issued by WHS.

8.3 Additional Measures

- 8.3.1 WHS reviewed the Vehicle Mechanical Report of the gravel truck involved in the incident prepared by the Calgary Police Service, after the incident.

Section 9.0 SIGNATURES

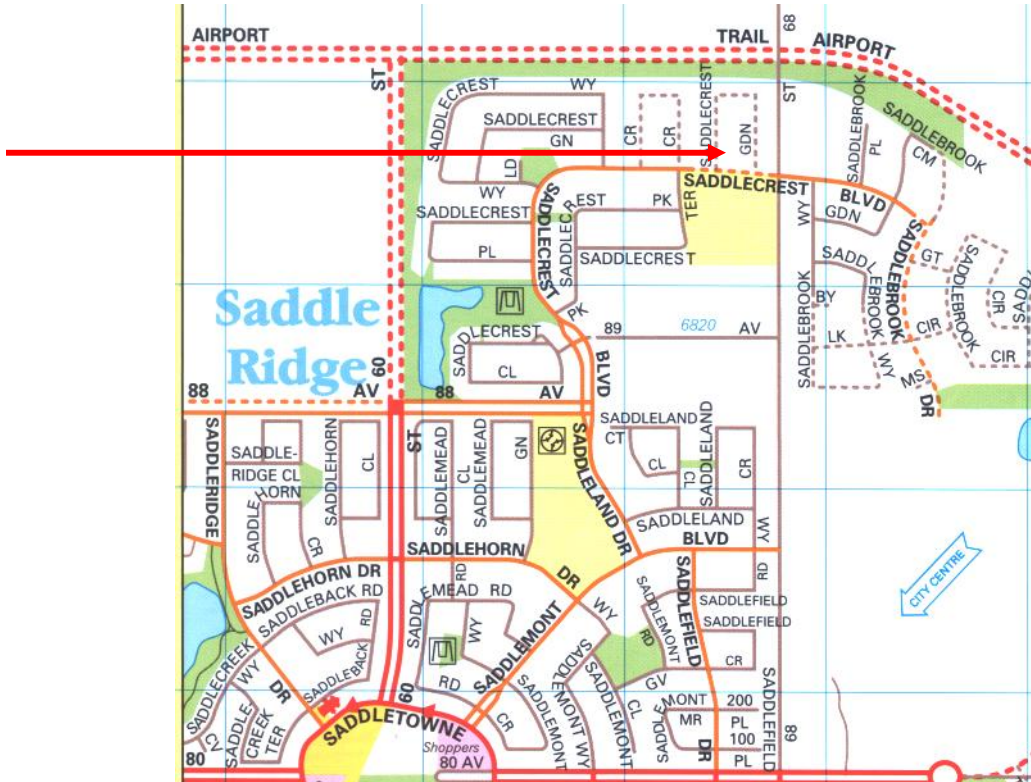
Original Report Signed _____
Lead Investigator **Date**

Original Report Signed _____
Reviewer **Date**

Original Report Signed _____
Senior Manager, South **Date**

Section 10.0 ATTACHMENTS

- Attachment "A" - Map
- Attachment "B" - Photographs



Map: Shows the location of the incident.



Photograph 1: Shows the location of the incident. Arrow shows the mud pool where the gravel truck was stuck.



Photograph 2: Shows a close up view of the mud pool where the gravel truck was stuck.



Photograph 3: Shows the gravel truck involved in the incident.



Photograph 4: Shows front view of the gravel truck involved in the incident.