



BOLTON & MENK, INC.

Consulting Engineers & Surveyors

12224 Nicollet Avenue • Burnsville, MN 55337

Phone (952) 890-0509 • Fax (952) 890-8065

www.bolton-menk.com

MEMORANDUM

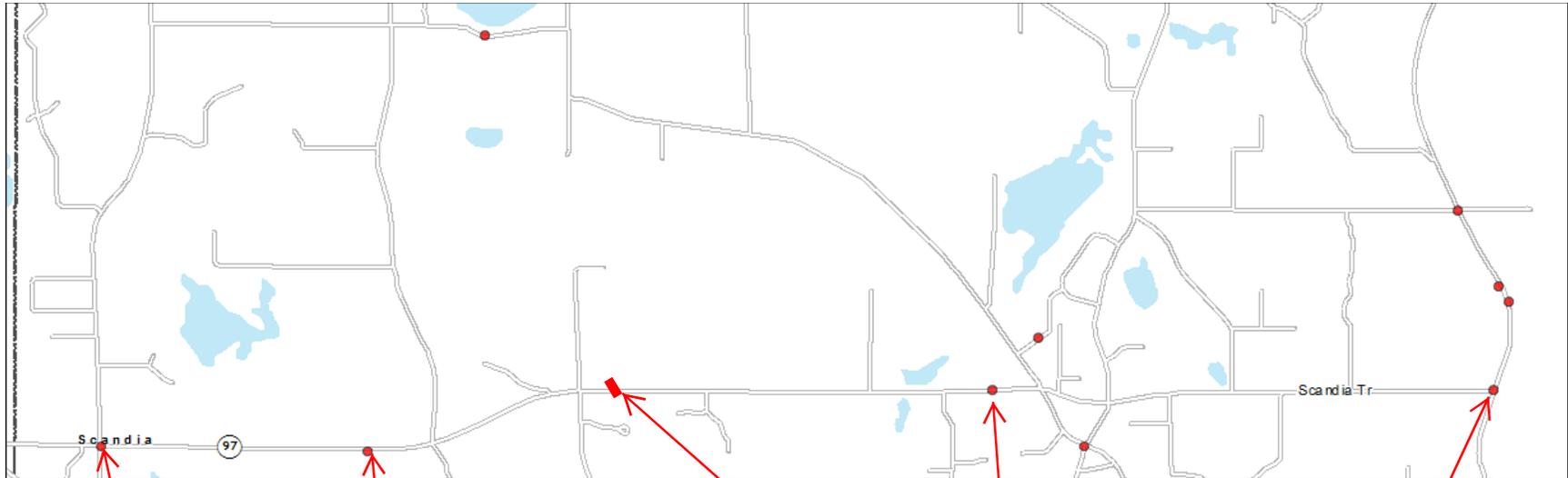
Date: August 15, 2014
To: Kristina Handt
City of Scandia
From: Chris Chromy, P.E., P.T.O.E.
Jeremy Melquist, EIT
Subject: Trunk Highway 97 Corridor – Crash Update
Scandia, MN

At the request of the City of Scandia, crashes on the Trunk Highway (TH) 97 corridor are being monitored every 6 months. Crashes are being reviewed along TH 97, between CSAH 15 (Manning Trail) and TH 95, and along CR 91 (Lofton Ave), between TH 97 and 228th St.

The tool used to review crashes, The Minnesota Crash Mapping Analysis Tool, has crashes up until August 1, 2014. Since the mine opened (November 25th, 2013), there have been a total of five crashes on the TH 97 corridor and no crashes on the CR 1 (Lofton Ave) corridor. None of these crashes involved the hauling trucks. The attached figure outlines the crashes on this corridor since the mine has opened. The individual crash reports are also included. One crash was a right angle crash at the CSAH 15 & TH 97 intersection that involved two passenger vehicles. The other four crashes were single vehicle accidents (2 collisions with deer, 1 rollover, and 1 collision with a sign pole).

Another crash update will be provided in 6 months.

TH 97 Corridor - Crash Update



3/20/14 11:40 AM
- Right Angle
- 2 Passenger Cars (SB & EB)
- Property Damage

1/14/14 12:10 PM
- Collision with Sign pole
- Passenger Car (WB)
- Illegal Speed
- Property Damage

12/19/13 12:10 PM
- Collision with deer
- Passenger Car
- Possible Injury

4/27/14 11:58 PM
- Collision with deer
- Passenger Car
- Property Damage

4/16/14 4:40 PM
- Rollover
- Pickup Truck (NB)
- Illegal Speed
- Property Damage



Crash Detail Report

2013 Crashes

Report Version 1.0 March 2010

Crash ID: 140050152	Date: 12/19/2013	Time: 1722	Sys: 03-MN
County: WASHINGTON	City: SCANDIA	Route: 00000097	009+00.519

Severity: POSSIBLE INJURY	First Event: ON ROADWAY
Road Type: 2 LANES UNDIV 2_WAY	To Junction: NON-JUNCTION
Road Char: STRAIGHT AND GRADE	Traffic Device: NOT APPLICABLE
Crash Type: COLL W/DEER	Speed Limit: 55
Surf Cond: SNOW	Diagram: OTHER
Light Cond: DARK - NO STREET LIGHTS	Officer:
Weather 1: CLOUDY	Reliability: LESS CONFIDENT
Weather 2: NOT SPECIFIED	# of Vehicles: 1.00

<table border="1"> <tr><th>Unit 1</th></tr> <tr><td>Trav Dir: EAST</td></tr> <tr><td>Veh Act: STRAIGHT AHEAD</td></tr> <tr><td>Veh Type: SPORT UTILITY VEHICLE</td></tr> <tr><td>Age: 50</td></tr> <tr><td>Gender: F</td></tr> <tr><td>Cond: NORMAL</td></tr> <tr><td>Cont Fact NO IMPROPER DRIVING</td></tr> <tr><td>Cont Fact NOT SPECIFIED</td></tr> </table>	Unit 1	Trav Dir: EAST	Veh Act: STRAIGHT AHEAD	Veh Type: SPORT UTILITY VEHICLE	Age: 50	Gender: F	Cond: NORMAL	Cont Fact NO IMPROPER DRIVING	Cont Fact NOT SPECIFIED	<table border="1"> <tr><th>Unit 2</th></tr> <tr><td> </td></tr> </table>	Unit 2		<table border="1"> <tr><th>Unit 3</th></tr> <tr><td> </td></tr> </table>	Unit 3	
Unit 1															
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Gender: F															
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Unit 2															
Unit 3															

Selection Filter:

WORK AREA: COUNTY_CODE('82') - FILTER: CRASH_YEAR('2013') - SPATIAL FILTER APPLIED

Analyst: Jeremy Melquist	Notes:
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Crash Detail Report

2014 Crashes

Report Version 1.0 March 2010

Crash ID: 140150291	Date: 01/14/2014	Time: 1211	Sys: 03-MN
County: WASHINGTON	City: SCANDIA	Route: 00000097	008+00.488

Severity: PROPERTY DAMAGE	First Event: OFF ROADWAY ON ROADSIDE
Road Type: 3 LANES UNDIVIDED	To Junction: NON-JUNCTION
Road Char: CURVE AND GRADE	Traffic Device: NOT APPLICABLE
Crash Type: COLL W/SIGN POLE	Speed Limit: 55
Surf Cond: SNOW	Diagram: OTHER
Light Cond: DAYLIGHT	Officer:
Weather 1: CLOUDY	Reliability: LESS CONFIDENT
Weather 2: NOT SPECIFIED	# of Vehicles: 1.00

<table border="1"> <tr><th style="background-color: #cccccc;">Unit 1</th></tr> <tr><td>Trav Dir: W</td></tr> <tr><td>Veh Act: STRAIGHT AHEAD</td></tr> <tr><td>Veh Type: VAN OR MINIVAN</td></tr> <tr><td>Age: 19</td></tr> <tr><td>Gender: F</td></tr> <tr><td>Cond: NORMAL</td></tr> <tr><td>Cont Fact ILLEGAL SPEED</td></tr> <tr><td>Cont Fact WEATHER</td></tr> </table>	Unit 1	Trav Dir: W	Veh Act: STRAIGHT AHEAD	Veh Type: VAN OR MINIVAN	Age: 19	Gender: F	Cond: NORMAL	Cont Fact ILLEGAL SPEED	Cont Fact WEATHER	<table border="1"> <tr><th style="background-color: #cccccc;">Unit 2</th></tr> <tr><td> </td></tr> </table>	Unit 2		<table border="1"> <tr><th style="background-color: #cccccc;">Unit 3</th></tr> <tr><td> </td></tr> </table>	Unit 3	
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Veh Type: VAN OR MINIVAN															
Age: 19															
Gender: F															
Cond: NORMAL															
Cont Fact ILLEGAL SPEED															
Cont Fact WEATHER															
Unit 2															
Unit 3															

Crash ID: 140790167	Date: 03/20/2014	Time: 1143	Sys: 03-MN
County: WASHINGTON	City: SCANDIA	Route: 00000097	007+00.363

Severity: PROPERTY DAMAGE	First Event: ON ROADWAY
Road Type: 2 LANES UNDIV 2_WAY	To Junction: 4-LEGGED INTERSECTION
Road Char: STRAIGHT AND LEVEL	Traffic Device: STOP SIGN 4-WAY
Crash Type: COLL W/MV IN TRANSPORT	Speed Limit: 55
Surf Cond: DRY	Diagram: RIGHT ANGLE
Light Cond: DAYLIGHT	Officer:
Weather 1: CLOUDY	Reliability: CONFIDENT
Weather 2: NOT SPECIFIED	# of Vehicles: 2.00

<table border="1"> <tr><th style="background-color: #cccccc;">Unit 1</th></tr> <tr><td>Trav Dir: S</td></tr> <tr><td>Veh Act: STRAIGHT AHEAD</td></tr> <tr><td>Veh Type: PASSENGER CAR</td></tr> <tr><td>Age: 72</td></tr> <tr><td>Gender: F</td></tr> <tr><td>Cond: NORMAL</td></tr> <tr><td>Cont Fact NO IMPROPER DRIVING</td></tr> <tr><td>Cont Fact NOT SPECIFIED</td></tr> </table>	Unit 1	Trav Dir: S	Veh Act: STRAIGHT AHEAD	Veh Type: PASSENGER CAR	Age: 72	Gender: F	Cond: NORMAL	Cont Fact NO IMPROPER DRIVING	Cont Fact NOT SPECIFIED	<table border="1"> <tr><th style="background-color: #cccccc;">Unit 2</th></tr> <tr><td>Trav Dir: E</td></tr> <tr><td>Veh Act: STRAIGHT AHEAD</td></tr> <tr><td>Veh Type: PASSENGER CAR</td></tr> <tr><td>Age: 58</td></tr> <tr><td>Gender: M</td></tr> <tr><td>Cond: NORMAL</td></tr> <tr><td>Cont Fact FAIL TO YIELD ROW</td></tr> <tr><td>Cont Fact NOT SPECIFIED</td></tr> </table>	Unit 2	Trav Dir: E	Veh Act: STRAIGHT AHEAD	Veh Type: PASSENGER CAR	Age: 58	Gender: M	Cond: NORMAL	Cont Fact FAIL TO YIELD ROW	Cont Fact NOT SPECIFIED	<table border="1"> <tr><th style="background-color: #cccccc;">Unit 3</th></tr> <tr><td> </td></tr> </table>	Unit 3	
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Gender: M																						
Cond: NORMAL																						
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Cont Fact NOT SPECIFIED																						
Unit 3																						

Crash ID: 141070232 **Date:** 04/16/2014 **Time:** 1641
County: WASHINGTON **City:** SCANDIA

Sys: 03-MN
Route: 00000095 088+00.563

Severity: PROPERTY DAMAGE	First Event: ON ROADWAY
Road Type: 2 LANES UNDIV 2_WAY	To Junction: T-INTERSECTION
Road Char: STRAIGHT AND GRADE	Traffic Device: STOP SIGN OTHER
Crash Type: OVERTURN / ROLLOVER	Speed Limit: 55
Surf Cond: WET	Diagram: NOT APPLICABLE
Light Cond: DAYLIGHT	Officer:
Weather 1: CLOUDY	Reliability: CONFIDENT
Weather 2: SNOW	# of Vehicles: 1.00

Unit 1	Unit 2	Unit 3
Trav Dir: N		
Veh Act: STRAIGHT AHEAD		
Veh Type: PICKUP TRUCK		
Age: 24		
Gender: M		
Cond: NORMAL		
Cont Fact DISTRACTION		
Cont Fact ILLEGAL SPEED		

Crash ID: 141270098 **Date:** 04/27/2014 **Time:** 2358
County: WASHINGTON **City:** SCANDIA

Sys: 03-MN
Route: 00000097 011+00.119

Severity: PROPERTY DAMAGE	First Event: ON ROADWAY
Road Type: 2 LANES UNDIV 2_WAY	To Junction: NON-JUNCTION
Road Char: STRAIGHT AND LEVEL	Traffic Device: NOT APPLICABLE
Crash Type: COLL W/DEER	Speed Limit: 55
Surf Cond: WET	Diagram: HEAD ON
Light Cond: DARK - STREET LIGHTS ON	Officer:
Weather 1: CLEAR	Reliability: CONFIDENT
Weather 2: RAIN	# of Vehicles: 1.00

Unit 1	Unit 2	Unit 3
Trav Dir: W		
Veh Act: STRAIGHT AHEAD		
Veh Type: PASSENGER CAR		
Age: 33		
Gender: F		
Cond: NORMAL		
Cont Fact NO IMPROPER DRIVING		
Cont Fact NOT SPECIFIED		