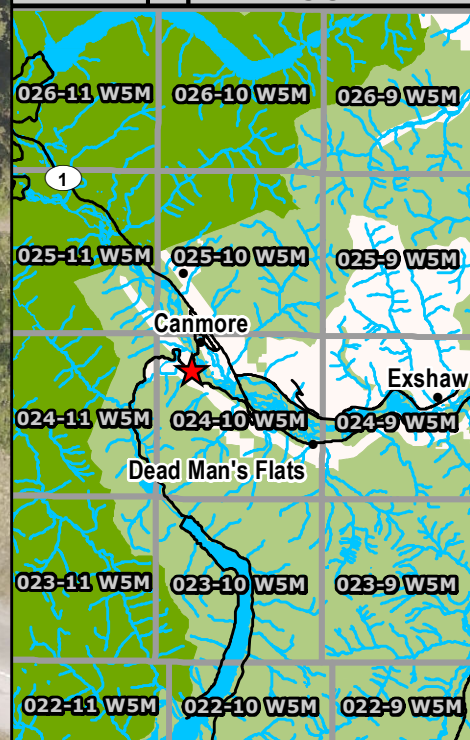
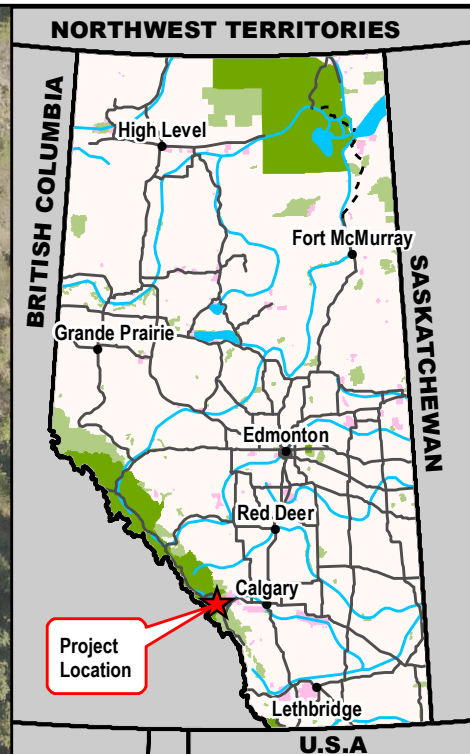


SITE NUMBER AND NAME: <b>S012 Spray Lakes Road</b>		HIGHWAY & KM: 742:02, 4.319	PREVIOUS INSPECTION DATE: May 7, 2019	INSPECTION DATE: <b>July 6, 2020</b>
LEGAL DESCRIPTION 11-29-024-10 W5M	NAD 83 COORDINATES: UTM Northing Easting 11 5659724 614296		RISK ASSESSMENT: PF: 11 CF: 7 TOTAL: 77	
AVERAGE ANNUAL DAILY TRAFFIC (AADT): 1202 (north); 1202 (south), (Ref. No. 67429980)			CONTRACTOR MAINTENANCE AREA (CMA): 28	

SUMMARY OF SITE INSTRUMENTATION:  None  LAST READING DATE: N/A	INSPECTED BY: Chris Morgan (KCB) Margot Lederman (KCB) Kristen Tappenden (AT) Alex Frotten (AT)
PRIMARY SITE ISSUE: Voids from old coal mines under road, 3.5 m to 6 m below highway.	
APPROXIMATE DIMENSIONS: Coal mine voids present below 80 m to 100 m of highway and below adjacent areas.	
DATE OF ANY REMEDIAL ACTION: Geophysical investigation completed in September 2017, followed by drilling investigation in April 2018. Final tender and drawings submitted for tendering in June 2019.	

ITEM	CONDITION EXISTS		DESCRIPTION AND LOCATION	NOTICABLE CHANGE FROM LAST INSPECTION	
	YES	NO		YES	NO
Pavement Distress	X		Previously patched headboxes have settled slightly. Pavement cracking over entire width of highway		X
Slope Movement		X	Shallow bedrock present at site, bedrock exposed in backslope to the south of the highway.		X
Erosion		X			X
Seepage		X			X
Culvert Distress		X	Depression noted in ditch at outlet of culvert.		X

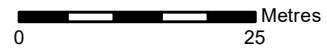
<b>COMMENTS</b>
No observable changes to the site when compared to 2019 inspection.
Pavement surface has some subtle depressions, indicating movement of subgrade. Bedrock is exposed to the south of the subject site. Subtle depression noted at outlet of culvert to east of site, may indicate infiltration of culvert discharge into an underlying void.
Settlement of flush mounted head boxes and void formation between the head box and asphalt may indicate that seepage from the pavement surface into the void via boreholes is promoting settlement of the road surface and asphalt deformation.
The locations of the 2018 boreholes are shown on Figure 1. Repair scheduled for 2020 construction.



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**Legend**

- 2018 Borehole
- Borehole (metal cap)
- Borehole (filled)
- Borehole (covered by asphalt)
- GPS Track (July 6, 2020)
- Culvert
- Void



NOTES:  
 1. HORIZONTAL DATUM: NAD83  
 2. GRID ZONE: UTM Zone 11N  
 3. IMAGE SOURCE: World Imagery, ESRI ArcGIS Online.  
 Source date January 15, 2017 (Town of Canmore)

CLIENT

PROJECT	SOUTHERN REGION GEOHAZARD RISK MANAGEMENT PROGRAM	
TITLE	Site Plan S012 - Canmore Spray Lakes Road Hwy 742:02, km 4.319	
SCALE	PROJECT No.	FIG No.
1:800	A05115A03	1

Time: 16:53:55 PM  
 Date: August 06, 2020  
 File: Z:\AEDM\A05115A03\ABT Southern Region GRMP\A00 Drawings\2020\2. Section BIM\XDS012\_200806.mxd

**Photo 1** Patched boreholes in pavement. Photo was taken facing northeast on July 6, 2020.



**Photo 2** Pavement cracking and flush-mounted headbox for old boreholes. Photo taken facing west on July 6, 2020.

