COAL ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: **Coal assessment report for the Hudette Main coal property, British Columbia**

TOTAL COST: **$1,143,072.87**

AUTHOR(S): **C.G. Cathyl-Huhn**

SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): **CX9-051 / Mine number 1641004 'Hudette Expansion' / Approval number 20-1641004-0212**

YEAR OF WORK: **2019-2020 work term**

PROPERTY NAME: **Hudette Main, areas 'A' and 'B'**

COAL LICENSE(S) AND/OR LEASES ON WHICH PHYSICAL WORK WAS DONE: **Coal Licences 392476, 392550, and 392552**

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: **093O 060**

MINING DIVISION: **Liard**

NTS / BCGS: **NTS 093O/8; BCGS 093O.050**

LATITUDE: **55° 28' 22" North**; LONGITUDE: **122° 05' 17" West** (at centre of work)

UTM Zone: 10N EASTING: **557649** NORTHING: **6147791**

OWNER(S): **Conuma Coal Resources Limited**

MAILING ADDRESS: **200-235 Front St. (PO Box 2140), Tumbler Ridge, BC, V0C 2W0**

OPERATOR(S) [who paid for the work]: **Conuma Coal Resources Limited**

MAILING ADDRESS: **200-235 Front St. (PO Box 2140), Tumbler Ridge, BC, V0C 2W0**

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralisation, size and attitude). **bituminous coal, Early Cretaceous, Fort St. John Group, Moosebar Formation, Green Marker, Bullhead Group, Bluesky Formation, Gething Formation, Gaylard Member, anticlines, synclines, thrust faults**

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: **Coal Assessment Reports 989 (principal reference); 522, 523, 524, 525, 526, 582, 583, 584, 585, 586, 587, 588, and 888**

SUMMARY OF TYPES OF WORK IN THIS REPORT		EXTENT OF WORK (in metric units)	ON WHICH TENURES
GEOLOGICAL (scale, area)			
	Ground, mapping	**nil**	**n/a**
	Photo interpretation	**nil**	**n/a**
GEOPHYSICAL (line-kilometres)			
	Ground (Specify types)	**nil**	**n/a**
	Airborne	**nil**	**n/a**
	(Specify types)		
	Borehole geophysical logging		
	Gamma, Resistivity, Density, and Caliper in 4 boreholes	**613.68 m**	**392476, 392550, and 392552**
	Gamma and Neutron in 4 boreholes	**613.50 m**	**392476, 392550, and 392552**
	Deviation in 4 boreholes	**606.88 m**	**392476, 392550, and 392552**
	Dipmeter in 4 boreholes	**612.38 m**	**392476, 392550, and 392552**
	Full wave sonic in 1 borehole	**249.76 m**	**392476, 392550, and 392552**
	Core partial or complete	**nil**	**not applicable**
	Non-core (rotary) in 5 boreholes	**652.22 m**	**392476, 392550, and 392552**

SAMPLING AND ANALYSES			
Total number of samples **(cuttings)**		**37**	**392476, 392550, and 392552**
	Proximate	**nil**	**n/a**
	Ultimate	**nil**	**n/a**
	Petrographic	**nil**	**not yet analysed**
	Vitrinite reflectance	**nil**	**not yet analysed**
	Coking	**nil**	**n/a**
	Wash tests - single-point at 1.50 s.g	**nil**	**not yet analysed**
PROSPECTING (scale/area)		**nil**	**n/a**
PREPARATORY/PHYSICAL			
Line/grid (km)		**nil**	**n/a**
Trench (number, metres)		**nil**	**n/a**
Bulk sample(s)		**nil**	**n/a**

Chapters 5 and 6 remain confidential under the terms of the Coal Act Regulation and have been removed from the public version.

http://www.bclaws.ca/civix/document/id/complete/statreg/251_2004

1 Table of contents

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2 Introduction

This Coal Assessment Report documents physical and non-physical work on Conuma Coal Resources Limited's (Conuma's) Hudette Main (Areas 'A' and 'B') coal tenures, comprising eight coal licences with anniversary dates in April of each year. This report updates and partially replaces a previous report (Sultan, 2015) compiled by Walter Canadian Coal Partnership, the previous owner of the tenures.

No work was done on the property during the 2015-2019 work terms. During the 2019-2020 work term (the subject of the present report), 5 non-cored boreholes were drilled, in support of groundwater investigations. Drilling is ongoing within the newly-commenced 2020-2021 work term, but is not discussed within the present report.

2.1 Scope of report

This report has been prepared and submitted by Conuma, in keeping with Conuma's annual reporting obligations under the *Coal Act*. The effective date of this report is April 8, 2020, in keeping with the later of the Hudette 'A' and Hudette 'B' coal tenures' anniversary dates (April 3 and April 8, respectively).

Work done since the previous anniversaries (April 3rd and 8th, 2019) is here-discussed, up to and including April 8, 2020. Non-physical work included reconnaissance of access roads, reinterpretation of selected historic boreholes, and a brief desktop study of property-scale geology. Physical work comprised a hydrogeological drilling programme which commenced in March of 2020 and was still in-progress as of this report's effective date.

2.2 Objectives of 2019-2020 work

The objectives of the work comprise reconnaissance of recently-constructed logging roads (conducted in the summer of 2019) and drilling of hydrogeological boreholes along those roads(commenced in March of 2020, and ongoing as of this report's effective date).

2.3 Property description

The Hudette 'A' and 'B' coal tenures, which are the subject of this report, comprise eight Coal Licences, numbered inclusively 392474 through 392476 (anniversary date of April 3), and 392549 through 392553 (anniversary date of April 8). Tenure details are presented below as **Table 2-1**, together with a cross-reference to physical work.

2.4 Location and access

Map 2-1 shows regional location of the property, and **Map 2-2** presents the location of these eight tenures, in the context of adjoining lands held by Conuma.

2.4.1 Road access

Access to the Hudette Main coal tenures is via the gravelled, two-lane, all-weather Falling Creek Connector Road, which connects northward to the Willow Creek Forest Service Road (Willow Creek FSR), and southeastward to the Hasler Forest Service Road (Hasler FSR). Both FSRs in turn connect to the paved Pine Pass segment of the Hart Highway (route BC-97). To the west on BC-97 are the town of Mackenzie and the city of Prince George, whilst to the east are the towns of Chetwynd and Dawson Creek.

The northern Willow Creek route is preferred for access to Hudette, as the Hudette property is currently managed as a southward extension of the presently-operating Willow Creek Mine, and contractor check-in / check-out has been established at Willow Creek Mine's security office.

2.4.2 Radio communications

The Hasler and Willow Creek Forest Service Roads, and the Falling Creek Connector Road, are radio-assisted, with signage indicating mandatory call-in points on assigned radio channels. Vehicles which are not equipped with a radio must arrange to form convoys led by a vehicle which does have the appropriate radio.

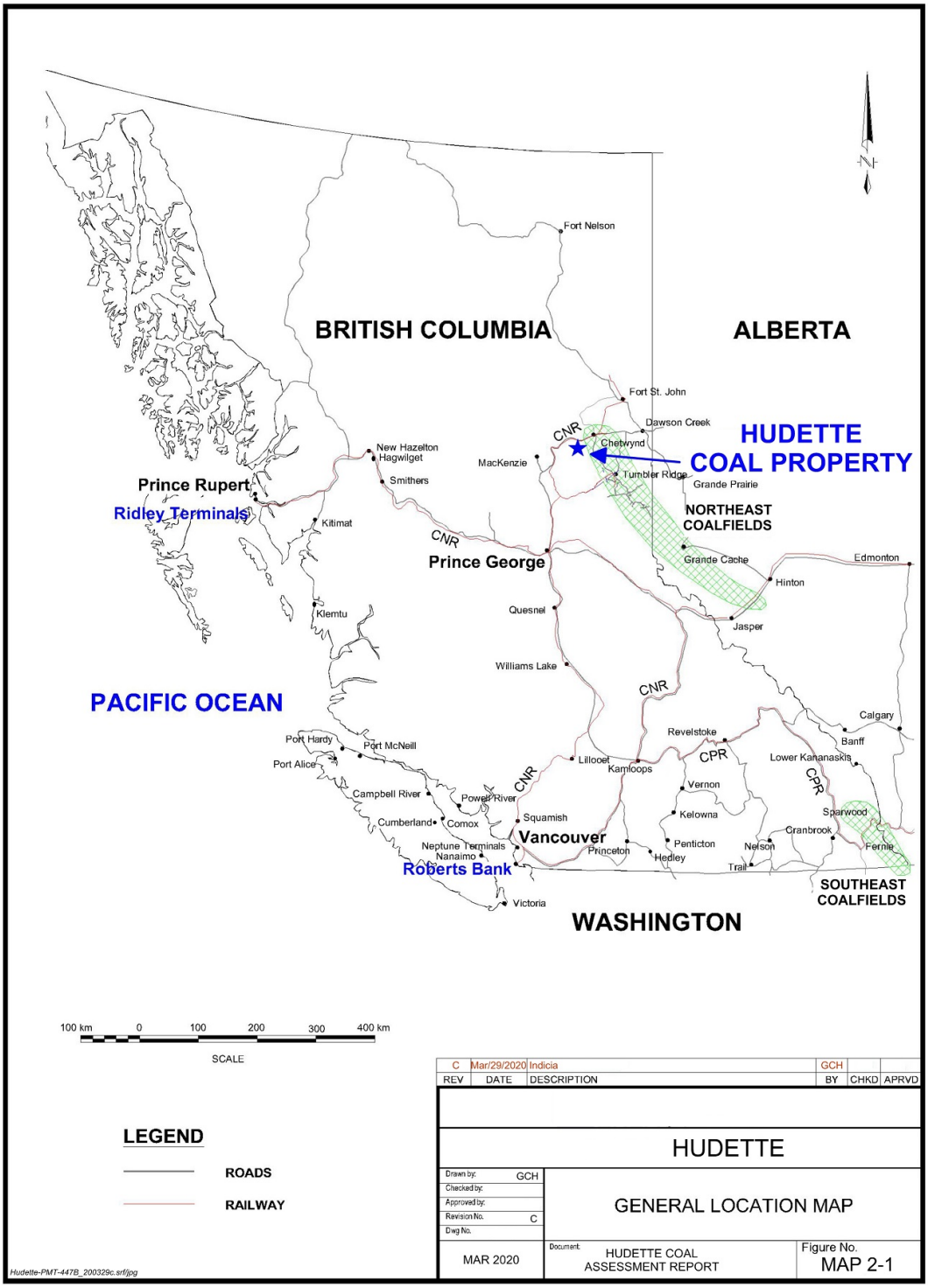
During the 2019-2020 work programme, radios were used to maintain internal communications between vehicles and heavy equipment operating within the Hudette Main logging-road network.

2.4.3 Cellular telephone coverage

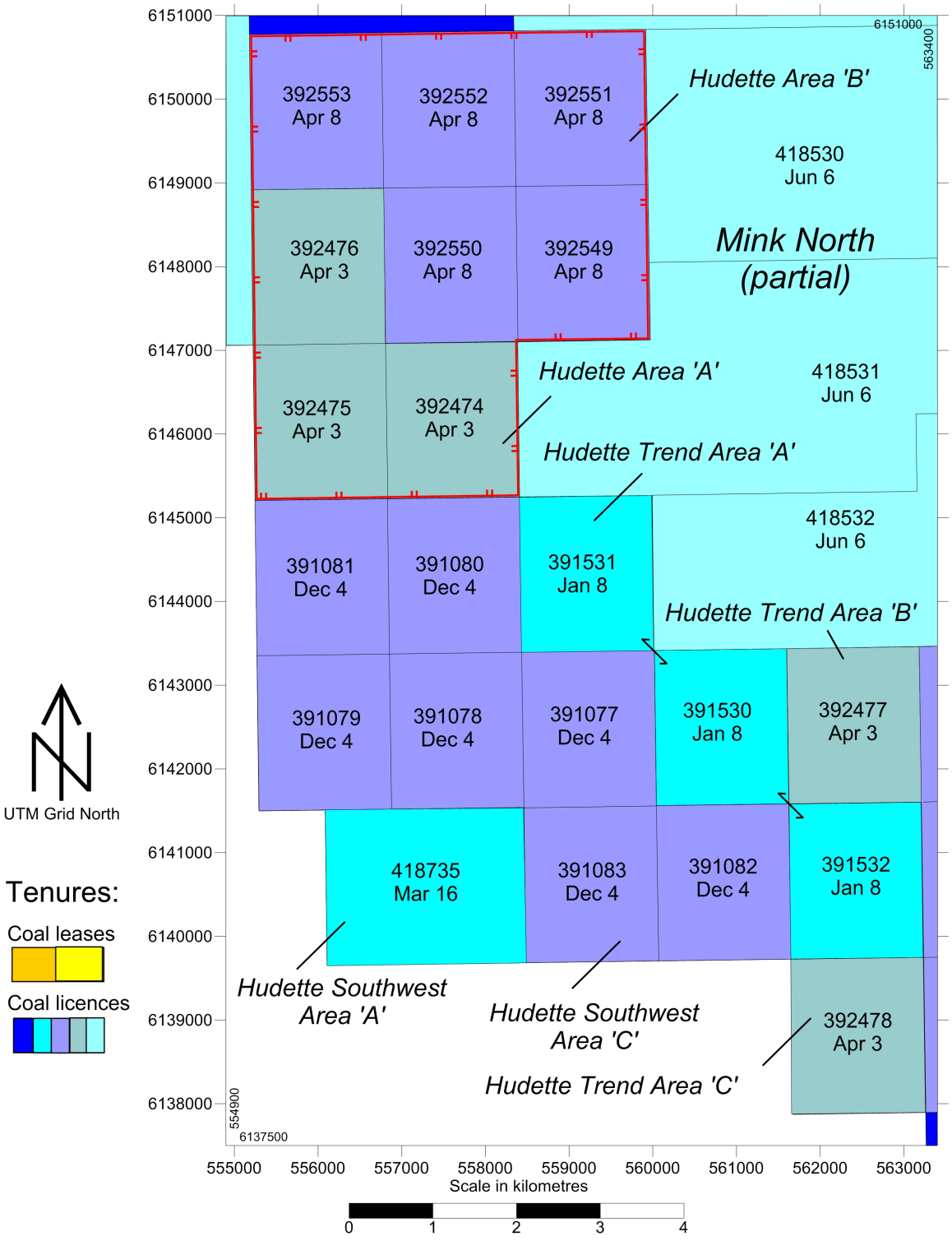
Cellular telephone service is fair to moderately-good at Hudette Main, with most reliable access from high ground such as the Kilometre 26 road-junction of the Falling Creek Connector Road with the logging-road network. Conversely, service from valley-bottoms tends to be poor.

Table 2-1: Tenure details for Hudette 'A' and Hudette 'B' coal licences

Tenure	Anni-versary	Approx-imate area in hectares	Conuma block designation	Property description	Historic drilling?	Current drilling?	Current borehole numbers
392474	April 3	294	Hudette 'A'	93 O/8 Block I, Units 47, 48, 57, and 58	yes	no	
392475	April 3	294	Hudette 'A'	93 O/8 Block I, Units 49, 50, 59, and 60	no	no	
392476	April 3	294	Hudette 'A'	93 O/8 Block I, Units 69, 70, 79, and 80	yes	yes	MW20-01D MW20-01S
392549	April 8	294	Hudette 'B'	93 O/8 Block I, Units 65, 66, 75, and 76	no	no	
392550	April 8	294	Hudette 'B'	93 O/8 Block I, Units 67, 68, 77, and 78	yes	yes	VW20-01
392551	April 8	294	Hudette 'B'	93 O/8 Block I, Units 85, 86, 95, and 96	yes	no	
392552	April 8	294	Hudette 'B'	93 O/8 Block I, Units 87, 88, 97, and 98	yes	yes	MW20-02D MW20-02S
392553	April 8	294	Hudette 'B'	93 O/8 Block I, Units 89, 90, 99, and 100	yes	no	
8 ten-ures		*2352 hectares*		*32 units*			



Regional location map: **Map 2-1**



Drawing: NEBC-land-Hudette-Main_200329c.srf/jpg
Date: 29. March, 2020 Scale: as shown by bar scale
Drawn: C.G. Cathyl-Huhn, P.Geo.(BC) Lic.Geol.(WA) RMSME
Grid: UTM (NAD83) Zone 10, in metres

Map 2-2:
Hudette coal lands

Map 2-3 shows the existing logging-road network at Hudette Main. These roads were built by Canfor's Chetwynd timber supply division, between 2014 and 2018. The logging roads have generally been constructed to a good standard of width, gradient, and curvature. An older network of seismic lines (shown in orange on the map) and drilling trails (shown as double black lines on the map) was used for purposes of historic drill programmes, providing access to those of the older drill sites which were not accessed by helicopters. Not shown on the map are short skidder-trails or backspar trails whose geometry and gradient are solely amenable to tracked access.

Road and trail names such as 'Hudette 26', '26A2', or 'A3B' have been designated by Conuma technical staff for purposes of internal reference and field use, and thus do not correspond with any prior forestry designations. Likewise, planned drill pads have been designated by one- or two-letter alphabetic codes, reserving the application of borehole numbers to those sites which have actually been drilled within the work term.

The five current boreholes, drilled within the 2019-2020 tenure-rental term, were accessed by means of the Canfor logging roads. Since drilling was conducted during the late winter and early spring, snowpack up to 4 metres deep required clearance from the roads. Although the underlying road base was generally found to be in good condition, water-bar ditches and access-barrier 'tank traps' needed to be knocked-down before the roads could be put in use.

2.5 Climate, physiography, and forest cover

2.5.1 Climate

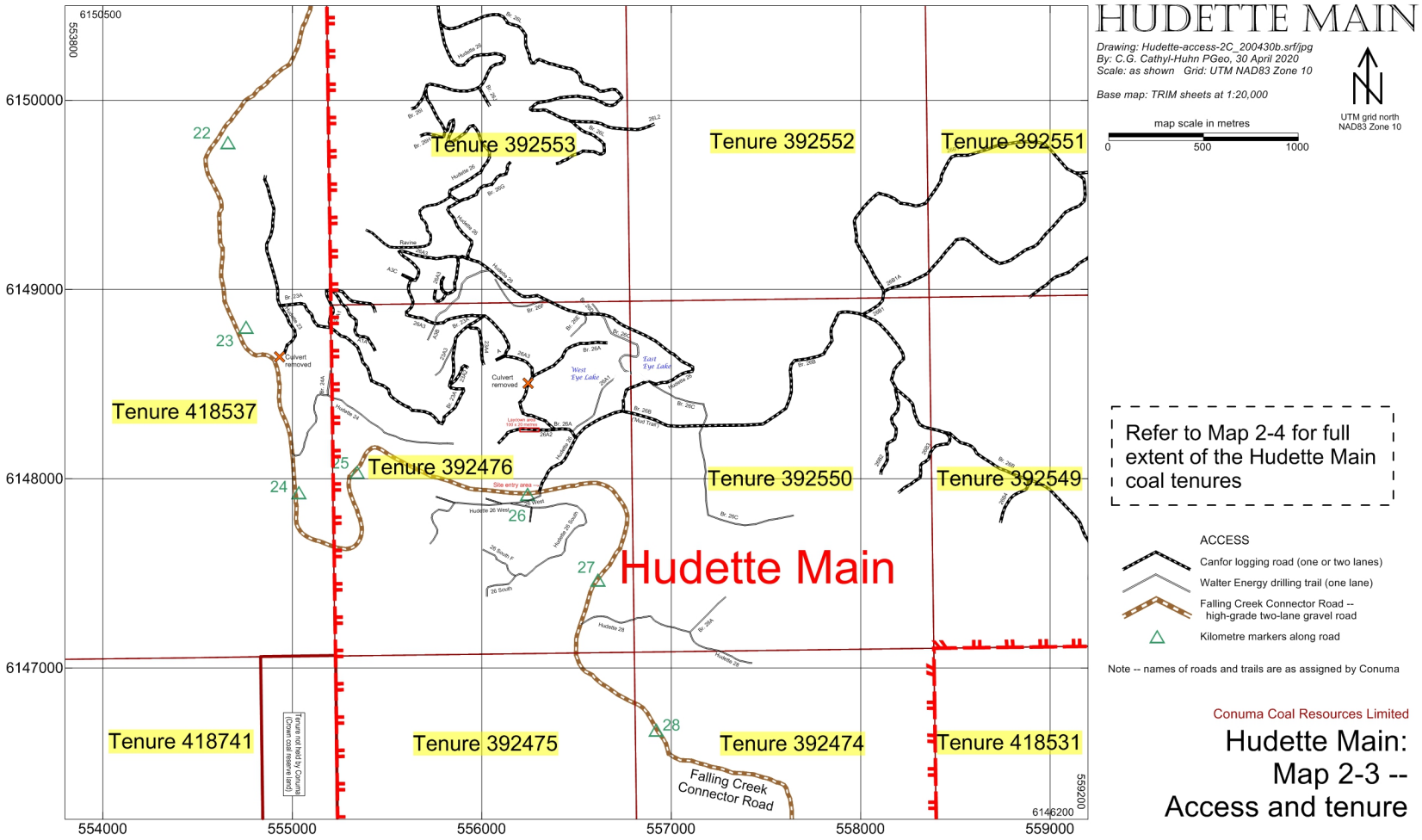
The nearest climate station to Hudette Main is the town of Chetwynd, whose climate is 'cool continental', with frigid winters and warm summers. Average annual rainfall and snowfall at Chetwynd are 306 millimetres and 169 centimetres respectively. The average frost free period ranges from 84 to 91 days, and about 30 days with some fog are expected per year. The mean daily temperature at Chetwynd is 15.4 C in July and -10.7 C in January. Winter temperatures occasionally drop below -40C, with the coldest weather occurring in January and February of most years.

2.5.2 Physiography

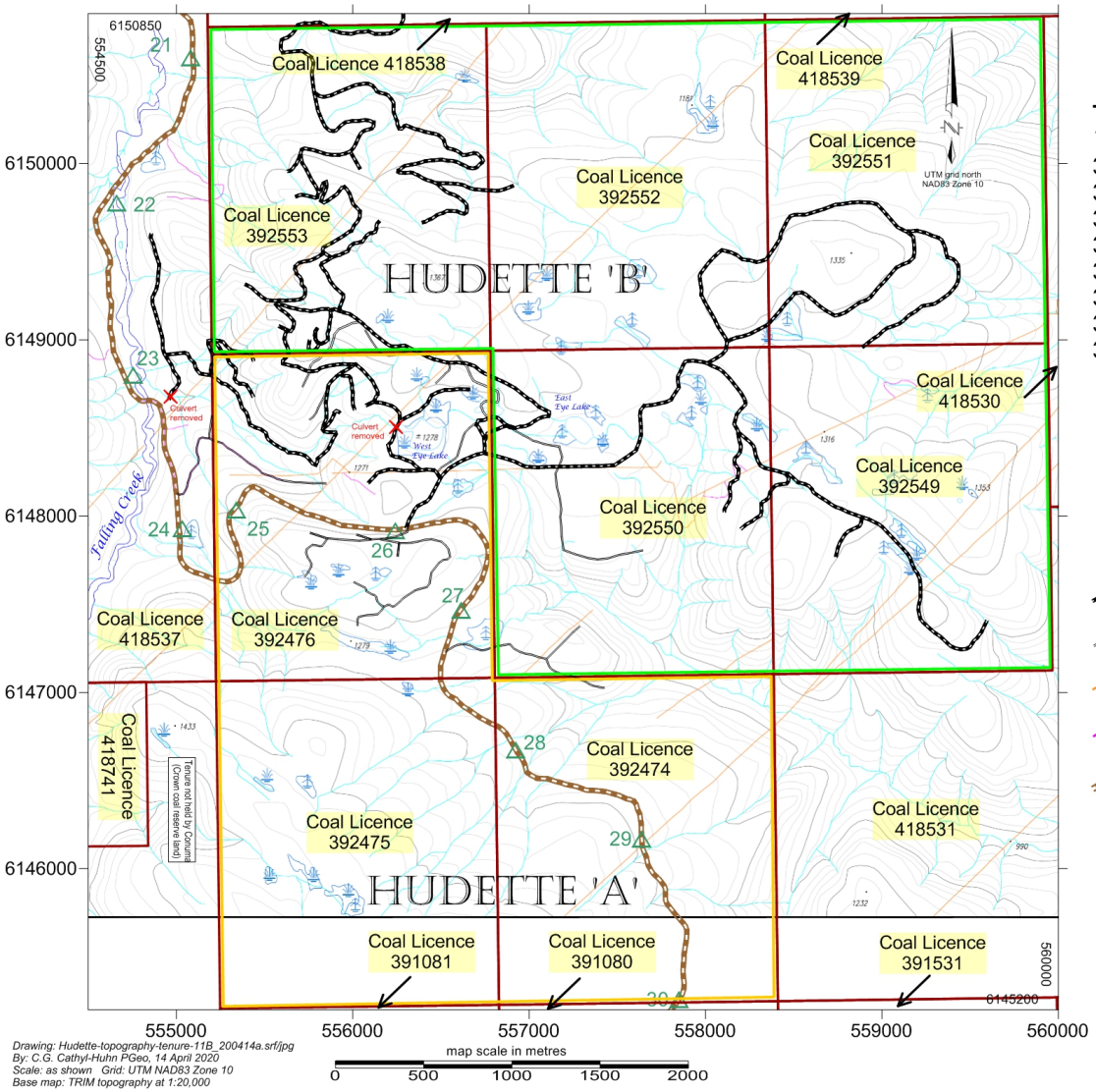
Physiographically, the Hudette Main coal tenures within the Inner Foothills of the Canadian Rocky Mountains. Topography comprises deeply-dissected, steep-sided, rounded hills and mountains, with elevations ranging from 910 to 1367 metres above sea level. Topographic contours at 20-metre intervals, based upon provincial government mapping, are shown on **Map 2-4**.

2.5.3 Forest cover and biogeoclimatic zonation

The property is heavily forested, chiefly with spruce and fir, with lesser amounts of willow and larch. A considerable proportion of the hillside and hilltop areas has been logged within the past fifteen years, with most of the cutblocks at Hudette Main having been logged within the past five years.



Hudette Main logging roads and historic drill trails: **Map 2-3**



Drawing: Hudette-topography-tenure-11B_200414a.srf/jpg
By: C.G. Cathyl-Huhn PGeo, 14 April 2020
Scale: as shown Grid: UTM NAD83 Zone 10
Base map: TRIM topography at 1:20,000

HUDETTE MAIN

Tenures which are the subject of this report

Tenure	*Property name*	*Anniversary*
392474	Hudette 'A'	April 3rd
392475	Hudette 'A'	April 3rd
392476	Hudette 'A'	April 3rd
392549	Hudette 'B'	April 8th
392550	Hudette 'B'	April 8th
392551	Hudette 'B'	April 8th
392552	Hudette 'B'	April 8th
392553	Hudette 'B'	April 8th

Coal Licence 392551

All coal tenures shown on this this map are currently held by Conuma Coal Resources Limited

ACCESS

- Canfor logging road (one or two lanes)
- Walter Energy drilling trail (one lane)
- Seismic line (unclassified as to driveability)
- Dirt or gravel trail (unclassified - from TRIM)
- Falling Creek Connector Road -- high-grade two-lane gravel road
- △ Kilometre markers along road

Conuma Coal Resources Limited

Hudette Main tenures:
Map 2-4 --
Topography and tenure

Tenure and topography: **Map 2-4**

Hudette Main lies within three biogeoclimatic zones and subzones (MFLNRORD, 2018):

- upland areas above approximately 1250 metres' elevation lie within the Cariboo variant of the wet cold subzone of the Engelmann Spruce - Subalpine Fir (ESSFwc3) zone (DeLong *et al.*, 1984);
- hillside areas between approximately 1000 and 1250 metres' elevation lie within the Misinchinka variant of the wet cool subzone of the Engelmann Spruce - Subalpine Fir (ESSFwk2) zone (DeLong *et al.*, 1984); and
- valley bottoms below approximately 1000 metres' elevation lie within the Finlay-Peace variant of the wet cool subzone of the Sub-Boreal Spruce (SBSwk2) zone (DeLong, 2004).

2.6 Acknowledgements and professional responsibility

Acknowledgements are due to Eugene Tucker P.Eng., Ian Squair P.Eng., Sam Payment GIT and Julia McGillivray EIT for technical discussions and base-mapping support. Jerry Holmes P.Geo. masterfully conducted the drilling programme, and the necessary (and frequently-repeated) snow-clearing operations.

This report was written by C.G. Cathyl-Huhn PGeo(BC) LicGeol(WA) RMSME, a qualified person and a competent person with respect of coal-mining geology. The author accepts responsibility for technical content presented herein.

3 Exploration

Exploration to date at Hudette has consisted primarily of drilling, supported by reconnaissance-level geological mapping (the latter work being conducted by prior owners of the tenures).

3.1 Discovery of coal

The occurrence of coal within the Peace River coalfield was known at least as far back at 1793, with the reported discovery within the Peace River canyon, by Alexander MacKenzie's exploring expedition (MacKenzie, 1801). Available geological literature does not address the possibility of prior knowledge of coal's properties and use by First Nations people.

3.2 Historic exploration at Hudette Main

Historic exploration at Hudette Main commenced with geological mapping, and proceeded to exploratory drilling, most of it done between 2011 and 2013.

3.2.1 Geological mapping

Regional-scale geological mapping of the Hudette area commenced in or about 1973 (Dyson, 1973; 1975a; 1975b; 1977; Panchy, 1979; Newson, 1980a; 1980b) and continued until 2008. This work was followed by detailed mapping by geological staff of Western Coal Corporation and Walter Energy (Sultan, 2015) in response to road-builders' discovery of coal (colloquially known as the 'Whiskey Coal') between kilometres 25 and 27 of the Whiskey Road segment of the newly-constructed Falling Creek Connector industrial road.

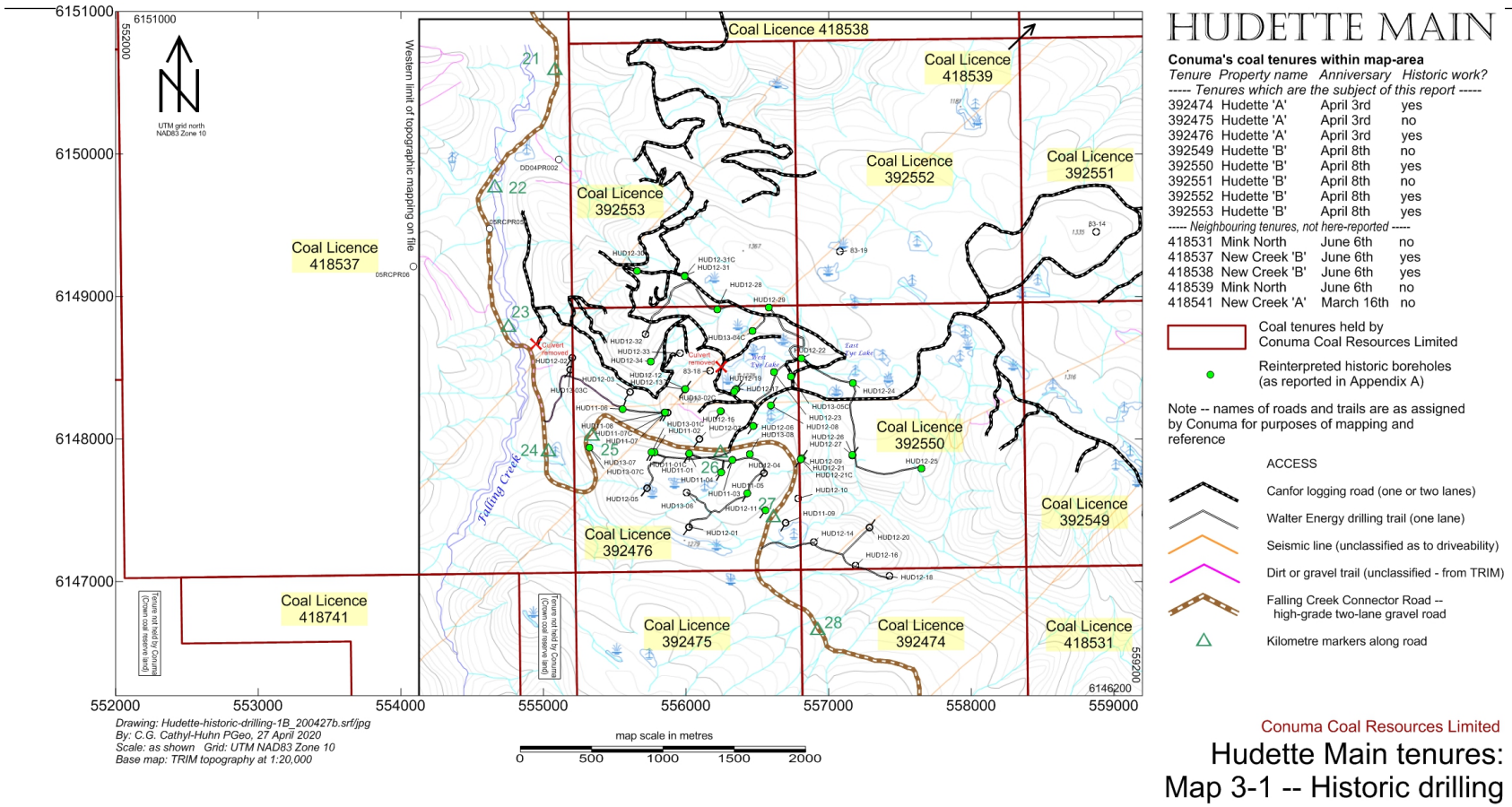
3.2.2 Exploratory drilling

Widely-spaced exploratory drilling was conducted in the Hudette area from the 1980s onward (Klatzel-Mudry *et al.*, 1982; 1984; Hovis *et al*., 2006), with indifferent results. Drilling appears to have focussed on establishing the near-surface stratigraphy of areas interpreted to have low bedding dips. Subsequently, Walter Energy conducted three drilling programmes at Hudette in 2011, 2012, and 2013, as reported by Sultan (*op.cit.*).

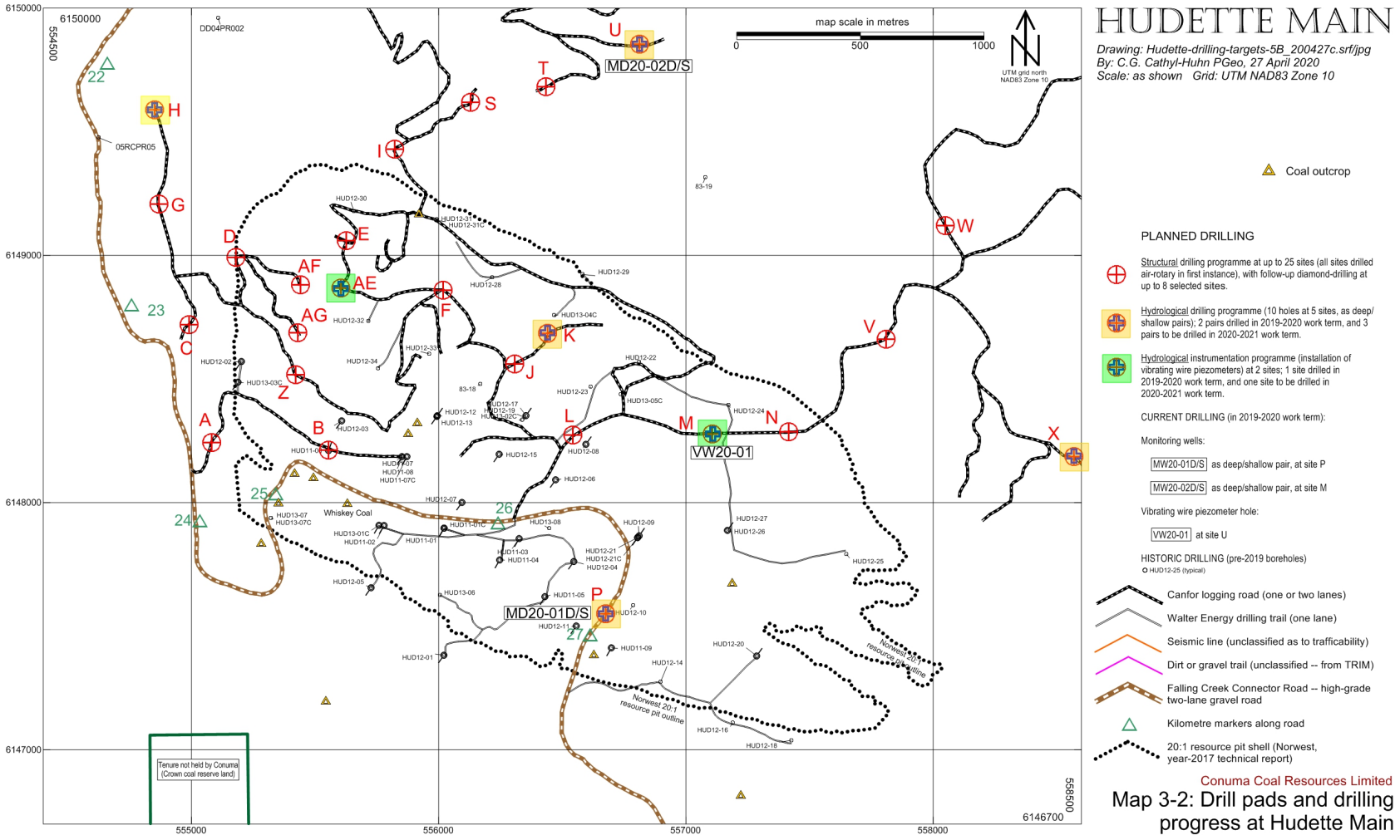
For the purposes of the present report, drilling of year-2013 or older vintage is considered as 'historic', and year-2020 drilling (up to April 8th) is considered as 'current'. Lithological interpretations of geophysical logs of historic and current boreholes are presented within **Appendix A** of this report.

Map 3-1 shows the extent of historic drilling at Hudette Main. In all, 58 boreholes (totalling 12075.04 metres) were drilled within the area currently covered by the Hudette 'A' and Hudette 'B' coal tenures (which taken together comprise the Hudette Main property), whereas another 6 boreholes (totalling 1386.31 metres) were drilled nearby, in two cases only a few metres west of the property boundary. The latter two boreholes were perhaps erroneously-located at the time of layout, but they are covered by other coal tenures currently held by Conuma.

Shown in green on **Map 3-1** are those of the historic boreholes whose geophysical logs have been recently reinterpreted (as documented in **Appendix A**).



Historic drilling at Hudette Main: **Map 3-1**



Drill pads and current drilling at Hudette Main: **Map 3-2**

Table 3-1: References, tenure, and location of historic boreholes

Borehole	Coal assessment report reference	Coal licence in which situated	UTM coordinates (NAD83 Zone 10)		Elevation (metres)	Depth of borehole (metres)
			Easting	Northing		
05RCPR03	888	418538	556051	6151213	1200	262.13
05RCPR05	888	418537	554624	6149476	1100	204.22
05RCPR06	888	418537	554087	6149209	1161	259.08
83-14	525	392551	558878.64	6149455.22	1335	336.11
83-18	525	392476	556168.64	6148480.22	1282	201.77
83-19	525	392552	557078.64	6149315.22	1292	251.66
DD04PR002	888	418537	555108	6149960	1067	290.93
HUD11-01	989	392476	556021.56	6147896.61	1305.62	176.78
HUD11-01C	989	392476	556021.56	6147896.61	1305.62	122.50
HUD11-02	989	392476	555778.77	6147907.19	1327.85	220.06
HUD11-03	989	392476	556325.25	6147854.24	1306.72	177.00
HUD11-04	989	392476	556246.55	6147767.82	1314.87	170.68
HUD11-05	989	392476	556429.40	6147619.50	1319.34	171.29
HUD11-06	989	392476	555554.41	6148210.30	1187.06	65.53
HUD11-07	989	392476	555851.18	6148185.77	1190.4	243.84
HUD11-07C	989	392476	555871.18	6148185.77	1190.4	160.02
HUD11-08	989	392476	555854.23	6148187.48	1191.95	216.46
HUD11-09	989	392476	556698.39	6147412.51	1277.83	144.78
HUD11-10	*not drilled*		pad: 556898.30	6147283.46	*not drilled*	
HUD12-01	989	392476	556020.76	6147382.28	1292.96	234.69
HUD12-01C	989	392476	556020.76	6147382.28	1292.96	122.50
HUD12-02	989	418537	555201.89	6148570.56	1126.99	187.45
HUD12-03	989	392476	555607.38	6148330.32	1149.07	225.52
HUD12-04	989	392476	556546.29	6147761.42	1321.64	248.00
HUD12-05	989	392476	555726.24	6147655.42	1303.01	124.96
HUD12-06	989	392476	556472.89	6148092.22	1291.30	240.79
HUD12-07	989	392476	556093.89	6148000.29	1257.6	192.02
HUD12-08	989	392476	556595.16	6148235.57	1279.57	213.36
HUD12-09	989	392550	556810.65	6147865.62	1298.99	210.31
HUD12-10	989	392476	556786.64	6147584.11	1279.68	249.93
HUD12-11	989	392476	556556.22	6147500.80	1275.18	240.79
HUD12-12	989	392476	555993.80	6148351.07	1240.79	184.40
HUD12-13	989	392476	555992.61	6148348.66	1235.37	259.08
HUD12-14	989	392550	556897.63	6147275.75	1263.06	243.84
HUD12-15	989	392476	556244.41	6148195.49	1299.05	195.07
HUD12-16	989	392550	557189.43	6147110.07	1210.34	252.98
HUD12-17	989	392476	556352.74	6148351.25	1277.60	97.53
HUD12-18	989	392474	557426.68	6147037.93	1179.42	210.31
HUD12-19	989	392476	556347.50	6148344.64	1277.42	251.46
HUD12-20	989	392550	557286.16	6147379.65	1257.96	249.93
HUD12-21	989	392550	556804.52	6147858.59	1299.37	251.46
HUD12-21C	989	392550	556804.47	6147858.81	1299.62	116.43
HUD12-22	989	392550	556810.57	6148567.99	1289.63	243.84
HUD12-23	989	392476	556614.91	6148468.00	1279.37	237.74

Table 3-1: References, tenure, and location of historic boreholes (concluded)

Borehole	Coal assessment report reference	Coal licence in which situated	UTM coordinates (NAD83 Zone 10)		Elevation (metres)	Depth of borehole (metres)
			Easting	Northing		
HUD12-24	989	392550	557172.41	6148394.41	1283.04	298.70
HUD12-25	989	392550	557649.18	6147791.68	1236.42	259.08
HUD12-26	989	392550	557167.47	6147887.06	1259.73	210.31
HUD12-27	989	392550	557167.94	6147887.62	1259.93	84.20
HUD12-28	989	392476	556217.07	6148910.58	1312.71	252.98
HUD12-29	989	392476	556580.85	6148922.98	1327.38	230.72
HUD12-30	989	392553	555657.31	6149178.54	1311.24	249.93
HUD12-31	989	392553	555992.22	6149146.73	1329.01	249.93
HUD12-31C	989	392553	555989.39	6149141.16	1328.29	249.93
HUD12-32	989	392476	555714.73	6148735.36	1305.79	249.93
HUD12-33	989	392476	555960.62	6148601.76	1246.39	249.93
HUD12-34	989	392476	555754.25	6148542.78	1236.93	249.94
HUD13-01C	989	392476	555758.30	6147908.00	1325.07	110.00
HUD13-02C	989	392476	556337.40	6148335.00	1281.20	252.00
HUD13-03C	989	418537	555187.90	6148487.00	1139.78	182.50
HUD13-04	989	392476	556466	6148758	1308	197.45
HUD13-05	989	392476	556737	6148438	1288	188.97
HUD13-06	989	392476	556004.29	6147626.20	1317.12	207.70
HUD13-07	989	392476	555321.78	6147938.35	1191.23	240.79
HUD13-07C	989	392476	555321.78	6147938.35	1191.23	58.53
HUD13-08	989	392476	556446.23	6147895.16	1311.11	213.36

Notes: locations of HUD11-01C, 11-05, 11-07C, 13-04, and 13-07C were not surveyed; as a survey crew was not available. Only hand-held GPS coordinates were available. HUD11-07C is situated a few metres from HUD11-07, and HUD13-07C is situated a few metres from HUD13-07.

Tenure numbers listed are those which currently exist. Pre-2011 drilling (i.e. boreholes not given HUD prefix) was on previously-extant tenures which had expired prior to the granting of the current tenures. Further note that boreholes 05RCPR03, -04, and -06, HUD12-02, and HUD13-03C were drilled outside the boundaries of the Hudette Main coal tenures.

Cross-references to coal assessment reports are as follow:

CAR-525: Klatzel-Mudry *et al,* (1984) report on behalf of Esso Resources Ltd.

CAR-888: Hovis *et al.* (2006) report on behalf of Kennecott Canada Exploration Inc.

CAR-989: Sultan (2015) report on behalf of Walter Canadian Coal Partnership

3.2.2.1 Comment on borehole spacing

Coal licence 392476 is the most intensely-explored tenure at Hudette Main. Forty boreholes have been drilled within this coal licence's 294-hectare area, thus 7.35 hectares per borehole, equivalent to 271-metre spacing if the boreholes had been drilled on a square grid.

3.3 Current exploration

Current exploration comprises year-2019 site reconnaissance and year-2020 (up to April 8th) drilling.

3.3.1 Year-2019 site reconnaissance

In the summer of 2019, access to some of the potential drill pads was investigated by means of vehicle-borne reconnaissance of the Hudette Main area. Closely-spaced water bars, cross-ditches, and substantial berms (colloquially, 'tank traps') were observed along existing logging roads, particularly on climbing or descending gradients, or at sites where branch roads had been blocked-off.

3.3.2 Year-2020 drilling programme

Map 3-2 depicts the planned and permitted first phase ('NOW-1') of drilling at Hudette Main. Drill pads are lettered from A through AG, with some gaps in the lettering.The majority of the drill pads are programmed for rotary drilling (with geologically-contingent diamond-drilling) in the 2020-2021 work term. Practically speaking, this drilling will be a continuation of the current work done so far. Determination of which drill pads are used, orientations and lengths of boreholes, and whether or not coring is conducted, will await the completion of ongoing structural and coal-correlation studies.

Studies are underway for a further extension (designated as 'NOW-2') of drilling, proposed for later in the 2020-2021 work term. Recommendations for such an extension are briefly discussed in **Chapter 11** of this report, and illustrated as **Map 11-1**.

3.3.2.1 Summary of work accomplished prior to April 3rd / 8th

The year-2020 drilling programme commenced with mechanised snow-clearing operations beginning on March 11th. Two bulldozers and a tracked excavator were used to knock down snowdrifts up to four metres deep, clear snow from existing roads, and level-out deep water bars and road-blocking 'tank traps' while maintaining drainage-ways for snowmelt.

Roads were cleared to provide access to three of the permitted drill pads (sites M, P, and U), where the year-2020 groundwater drilling was to commence.

Boreholes have been serially-numbered by type, year of commencement, and order of drilling. 'VW' designates vibrating-wire piezometer holes, and 'MW' denotes monitoring wells. Thus, during the 2019-2020 work term, borehole VW20-01 was drilled at site M, boreholes MW20-01D and -01S were drilled at site P, and boreholes MW20-02D and -02S were drilled at site U. Map 3-1 depicts the locations of these sites.

Table 3-2: Record source, tenure, and location of current boreholes

Borehole	Record location within this report	Coal licence in which situated	UTM coordinates (NAD83 Zone 10)		Elevation (metres)	Casing base (logger) (metres)	Depth of borehole (metres)
			Easting	Northing			
MW20-01D	Appendix A	392476	556703.80	6147634.83	1300.34	15.53	150.07
MW20-01S	Appendix A	392476	556703.76	6147642.16	1300.74	16.15	61.76
MW20-02D	Appendix A	392552	556824.72	6149847.64	1211.53	43.0	153.16
MW20-02S	Appendix A	392552	556833.52	6149848.27	1210.97	20.9 (driller)	37.34
VW20-01	Appendix A	392550	557121.36	6148270.48	1285.20	6.1	250.00
5 boreholes							*652.22 (driller)*

Note: borehole locations from high-precision GPS.

3.3.2.2 Sampling of core and open-hole cuttings

No cores were cut during the 2019-2020 work term; therefore, no core samples were collected.

Borehole cuttings from open-hole drilling were sampled and examined by Lorax Environmental's field staff, who collected cuttings in multi-compartment plastic boxes for subsequent study.

Lorax staff also collected bag samples of cuttings from coaly zones (inventoried in **Table B-1**, within **Appendix B**), for future single-point floating (at 1.5 s.g.), and for petrographic and reflectometric studies. As of the effective date of this report, such analytical work has not yet commenced.

3.3.2.3 Geophysical logging

An industry standard suite of geophysical logs was run on four of the five boreholes drilled during the 2019-2020 work term. Borehole MW20-01S was excluded from logging, on account of the potential of getting a logging sonde stuck within the hole.

As was the case in the 2011-2013 exploration programmes, Century Wireline provided logging service from their Canadian base in Red Deer, Alberta. Standard logs run were:

- Compensated Density-Caliper-Resistivity (Century 9239C1 tool); along with the customary composite presentation density-derived (and where available, sonic-derived) porosity curves were also presented.
- Gamma-Neutron (Century 9058A tool);
- Deviation (Century 9411A tool, at combined declination of 17.3 degrees east); and
- Dipmeter analysis (Century 9411A tool, at combined declination of 17.29 degrees east).

In one borehole, the following additional log was run:

- Full wave sonic (Century 9325A2 tool).

Geophysical log depths are summarised within **Table A-2** (presented within **Appendix A**) and the logs themselves are presented as digital files in LAS (Log ASCII Standard), PDF (Portable Document Format), and TIF (Tagged Image Format) files, accompanying this report.

3.3.3 Lithological interpretations of historic and current geophysical logs

During the 2019-2020 work term, geophysical logs were interpreted, as concerns selected historic boreholes along with the four geophysically-logged current boreholes.

3.3.3.1 Lithological interpretations of selected historic geophysical logs

Table A-3 (presented within **Appendix A**) presents interpretations of geophysical logs from selected historic boreholes. **Map 3-1** depicts the locations of these boreholes within the Hudette Main exploration area. Interpretive work commenced in the summer of 2019, and has proceeded as time permits. Abbreviations of interpreted lithologies are presented at the commencement **of Table A-3**.

3.3.3.2 Lithological interpretations of year-2020 geophysical logs

Table A-4 (within **Appendix A**) presents lithological interpretations of geophysical logs run within the four current (2019-2020 work term) boreholes which were logged. For convenience, a list of lithological abbreviations is presented at the beginning of this table; the list is identical with the one presented in **Table A-3.**

No anomalies of apparent stratigraphic succession are interpreted to occur within current boreholes.

Table 4-4 (in **Chapter 4** of this report) presents the span of horizons interpreted to have been intersected by each of the current boreholes.

3.3.3.3 Apparent stratigraphic inversion within certain historic boreholes

Some of the re-examined historic boreholes are interpreted to have intersected sequences of apparently-inverted stratigraphy. Actual structural overturning is regarded as rare (if present at all), and the appearance of stratigraphic inversion is considered to be an artefact of substantially-deviated boreholes having locally or completely travelled up-section within folded strata.

Table 3-3 presents details of anomalies of apparent stratigraphic succession, as observed in selected historic boreholes, whereas **Table 4-3** (in **Chapter 4** of this report) presents the span of horizons tested by those of the historic boreholes which have been reinterpreted to date.

Table 3-3: Instances of apparent stratigraphic inversion as observed in selected historic boreholes

Borehole	*Depth range*	*Anomalies of apparent stratigraphic succession*
HUD 11-07	155.30 to 155.31	Apparent fold: normal succession up-hole, inverted succession down-hole
HUD 12-06	93.00 to 93.01	Apparent fold: normal succession up-hole, inverted succession down-hole
HUD 12-09	111.10 to 111.11	Apparent fold: normal succession up-hole, inverted succession down-hole
HUD 12-13	82.50 to 82.51	Apparent fold: normal succession up-hole, inverted succession down-hole
HUD 12-15	157.50 to 157.51	Apparent fold: normal succession up-hole, inverted succession down-hole
HUD 12-19	188.60 to 188.61	Apparent fold: normal succession up-hole, inverted succession down-hole
HUD 12-19	188.95	Begin normal succession down-hole; beneath possible fault
HUD 12-21	72.85 to 72.86	Apparent fold: normal succession up-hole, inverted succession down-hole
HUD 12-21C	80.30 to 80.31	Apparent fold: normal succession up-hole, inverted succession down-hole
HUD 12-31C	32.30 to 32.31	Apparent fold: normal succession up-hole, inverted succession down-hole
HUD 12-31C	55.2	Begin normal succession down-hole; beneath probable fault

*Note: depth ranges as presented in **Table A-3**; not all historic boreholes have been re-examined.*

4 Geological synthesis

Map 4-1 presents the interpreted bedrock geology of the Hudette Main property. This map is based upon structural studies conducted by Norwest Corporation (Allen and Minev, 2017) on behalf of Walter Energy, the property's previous owner, and also upon the present author's re-examination of geophysical logs from selected historic boreholes. The vintage of the map is ca. July, 2019; updates are planned as the currently-operating drilling programme continues onward.

4.1 Regional and property-scale stratigraphy

Regional and property-scale stratigraphy of the Hudette area has been established by means of gross lithostratigraphic correlation of laterally-extensive coarse-grained (mostly non-marine) and fine-grained (mostly marine, but locally non-marine) sedimentary rock-units. Although some preliminary broadly-spaced studies (Kilby, 1985) have been done to establish compositional trends of aerially-deposited tuff ('ash' bands or tonsteins), this work has not yet extended to direct radiometric dating of tuff beds, and as such, the identity and continuity of strata have been established mainly by means of pattern-recognition of geophysical-log responses in boreholes drilled within and adjacent to the Hudette Main area.

Table 4-1 presents a table of formations for the Hudette Main area. Two formations (the Moosebar Formation and the older Gething Formation) form bedrock at Hudette Main. As well, unconsolidated Drift covers much of the property, limiting the exposures of bedrock.

Table 4-1: Table of formations

Group	*Formation*	*Member*	*Map-unit*	*lithology*	*thick-ness*	*notes*
Quaternary Drift			D	talus, colluvium, alluvium; ?glaciolacustrine silty sand; till; peat and muck	2 to 40 m	
Fort St. John Group	Moose-bar Fm.	Spieker Mb.	4c	marine siltstone and sandstone; overall coarsening-upward sequence	40 to 70 m	
		Cowmoose Mb.	4b	marine mudstone; minor tuff and ironstone	50 to ?120 m	
		Green Marker	4a	glauconitic gritstone and silty sandstone; locally pebbly; erosional base	0.45 to 4 m	
		Bullmoose Mb.	3c	siltstone and silty mudstone; minor sandstone and tuff; gradational or abrupt base	25 to 50 m	
	Bluesky Fm.		3b	glauconitic, variably-muddy, pebbly gritstone; erosional base	0.25 to 7 m	
Bullhead Group	Gething Fm.	Gaylard Mb.	3a	fining-upward cycles of sandstone, mudstone, siltstone, and coal; coals are concentrated in uppermost 150 metres of the Gething Formation; basal sandy sub-unit lacks coals	460 to 485 m	
	Cadomin Fm.		2	gritty sandstone and pebble-conglomerate with distinctive block gamma-neutron log response; minor siltstone	25 to 35 m	*these horizons have not been reached by bore-holes at Hudette Main*
Minnes Group	Bickford Fm.		1d	siltstone, sandstone, mudstone and coal	285 to 300 m	
	Monach Fm.		1c	sandstone and conglomerate; siltstone	*thick-nesses not known*	
	Beattie Peaks Fm.		1b	siltstone, sandstone, and mudstone; minor coal		
	Monteith Fm.		1a	quartzite and sandstone; minor siltstone		

4.1.1 Quaternary and Recent deposits

To date, no published surficial (non-bedrock) geological mapping is known to have been done in the Hudette Main area.

Logging-road cuts at Hudette Main expose a range of Drift lithologies: silty sand, stony till, rock rubble, bouldery gravel, and wetland-associated peaty muck. Silty sands appear to occur as flat-topped terrace deposits; these sands may be glaciolacustrine deposits. As a result of the pervasive extent of Drift cover, unambiguous exposures of bedrock were seldom seen during the year-2019 reconnaissance of the logging road network, except near the tops of ridges.

The age of Drift at Hudette is postulated to range from Quaternary to Recent, with till being the oldest material and peaty muck, rock rubble, and streambed gravel being the youngest materials. No site-specific age-dating has yet been done.

4.1.2 Lower Cretaceous bedrock

Bedrock in the Hudette area has been mapped at regional scale by officers of the Geological Survey of Canada (Stott, 1968; 1973) and at local scale by geologists from several exploration companies (Dyson, 1973; 1975a; 1975b; 1977; Klatzel-Mudry *et al.*, 1982; 1984; Hovis *et al*., 2006; Ryan, 2010; Sultan, 2015). Conuma's most recent geological compilation (**Map 4-1**) was assembled in July 2019.

Rocks of three formal stratigraphic groups are mapped as forming bedrock at or near the Hudette area: from youngest to oldest, these are:

- Early Albian rocks of the Moosebar and Bluesky formations within the Fort St John Group;
- Hauterivian to Early Albian rocks of the Gething and Cadomin formations within the Bullhead Group; and
- Valanginian and ?older rocks of the Bickford Formation within the Minnes Group.

Of these five formations, the Moosebar, Bluesky, and Gething formations are mapped as forming bedrock within the Hudette Main coal tenures. The older Cadomin and Bickford formations are mapped as forming bedrock to the southwest and east of the tenures, but likely do not extend laterally to form the immediate bedrock at Hudette Main.

4.1.2.1 Moosebar Formation

The Moosebar Formation consists chiefly of shelfal to deep marine siltstone and mudstone, with minor sandstone, ironstone, and volcanic tuff (colloquially, 'ash bands') and very minor glauconitic, variably-muddy, pebbly gritstone. On the whole, the Moosebar records two or more shallowing-upward, coarsening-upward sequences passing from basal silty mudstone to topmost sandy siltstone and very fine-grained silty sandstone. The overall thickness of the Moosebar Formation is estimated to be at least 180 metres, with its upper contact having not been found within the Hudette Main area.

Four members are recognised within the Moosebar Formation by past and current workers at Walter Energy and Conuma. From the top down, these are:

- Spieker Member: sandy siltstone (40 to 70 metres thick),
- Cowmoose Member: locally-pyritic silty mudstone (50 to ?120 metres thick),
- Green Marker: glauconitic gritstone and silty sandstone (0.45 to 4 metres thick), and
- Bullmoose Member: silty mudstone (25 to 50 metres thick).

The Green Marker and the Cowmoose Member are informal stratonyms, developed between 2014 and 2016 by Walter Energy's geological staff. These two rock-units have not yet been formally-established according to the stratigraphic code, but they are now entering common use within the local coal industry.

The basal contact of the Moosebar Formation with the underlying Bluesky Formation is gradational to abrupt. Gradational contacts are often marked by the presence of isolated aggregates of glauconite within the basal Moosebar mudstone.

4.1.2.2 Bluesky Formation

The Bluesky Formation consists of dark green to dark greenish-grey, glauconitic, variably-muddy pebbly gritstone, with a conspicuous erosional basal contact with the underlying Gething Formation.

Where the Bluesky gritstones overlie Gething sandstones, their mutual contact is difficult to unambiguously demarcate on the basis of geophysical logs alone, except that the neutron-log response of the Bluesky is in some instances more muted, perhaps associated with increased amounts of muddy matrix within the Bluesky gritstones.

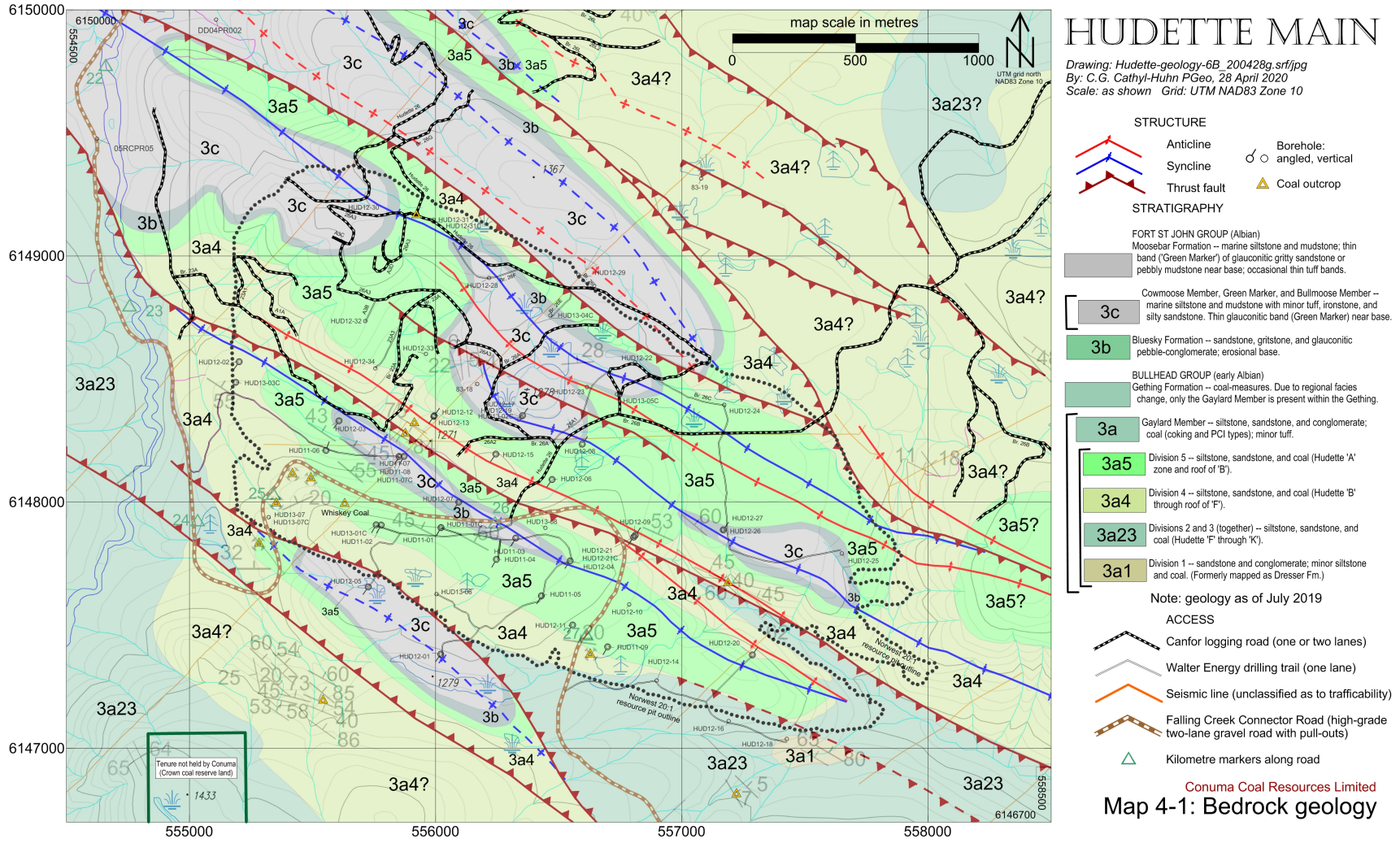
Judging by the variable thickness of preserved Gething strata above the uppermost Gething coal, the erosional relief at the Bluesky / Gething contact may be as great as five to ten metres.

4.1.2.3 Gething Formation

Although the Gething Formation comprises three or four well-documented members within more southwesterly portions of the Peace River coalfields (Gibson, 1992), only the basal Gaylard Member of the formation is recognised at Hudette.

The Gething Formation at Hudette consists principally of non-marine (alluvial, fluvial, and possibly lacustrine) variably-sandy siltstone, variably-carbonaceous mudstone, lenticular (channel-filling or bar-form) sandstone, and coal ranging from dirty 'barcode'-types interbanded with coaly and carbonaceous mudstone, to massive coals with few or no associated rock partings.

Gething sandstones at Hudette typically display bell-shaped gamma-neutron geophysical log responses, consistent with fining-upward passage from channelised sandstones to silty bar-form sandstones.



Bedrock geology of Hudette Main: **Map 4-1**

Ironstone and tuff form very minor proportions of the Gething Formation. The tuff bands, where associated with major coal zones, may have some lateral continuity and therefore utility as stratigraphic and structural marker beds, as has been observed at Conuma's Willow Creek Mine, and as less-frequently observed at Conuma's Brule Mine.

Marine bands have not yet been established as present within the Gething coal-measures at Hudette, although trace fossils ('burrows') have been seen in cores from the basal parts of some sandstone channel-fills. Such occurrences may stem from the presence of tidal salt-water wedges within the channels.

4.2 Regional and local tectonics

The Hudette Main coal tenures lie within a regional-scale northeast-directed fold-thrust belt, which extends at least 1000 kilometres northwesterly from northern Montana through Alberta to northeastern British Columbia.

Steep open folds take up most of the tectonic shortening at Hudette, with lesser (but still significant) extent of thrust-faulting (as depicted in **Map 4-1**). Most of the thrusts at Hudette are inferred to verge northeastward, consistent with the overall sense of regional tectonic transport. However, southwest-verging thrusts are inferred to occur within the southwestern corner of the Hudette Main tenures, where they juxtapose Gething coal-measures over tightly-folded non-coaly Moosebar rocks. Although numerous faults (the majority of which are interpreted to have 'possible' level-of-assurance) are interpreted to have been intersected by boreholes at Hudette Main, these faults are considered to mostly be bedding-plane shear zones, as they have little or no apparent stratigraphic displacement.

Precise location and geometric details of thrusts and folds remains unproven, owing to the patchy distribution of bedrock outcrops, and the sparse drilling within most of the Hudette Main property. Further structural drilling, planned for late spring and summer of 2020, is aimed at improving Conuma's understanding of the structural configuration of the coal-measures.

4.3 Stratigraphic distribution of coals at Hudette Main

Coals at Hudette Main may be grouped into twelve zones (Sultan, 2015), most of which contain more than one coal bed. Zones are designated by letters, from A zone near the top of the Gething Formation, to K zone at a stratigraphic distance of approximately 150 metres below the top of the Gething. Owing to steep dips and thrust-faulting (the effects of which factors are further complicated by angled borehole trajectories), the Hudette Main coal zones are typically spread-out over drilled intervals up to 250 metres long.

Geophysical-log correlation at Hudette Main is by now sufficiently-robust to allow consistent recognition of major coal zones within the property, but does not yet allow reliable correlation of coals between properties (*e.g.* Willow Creek Mine to Hudette Main, and onward to Brule Mine), largely on account of the profoundly non-uniform spatial distribution of high-quality geophysical logs.

Table 4-2: Stratigraphic schema of coals at Hudette Main

	Coal zone	*Coal beds*	*Plies of coal beds*		*Markers (mainly carbonaceous or coaly shale, or dirty coal)*
Gething Formation (Gaylard Member)	A zone	A			
	B zone	B			
			CG, CK, CN, CQ: carbonaceous shales		
	C zone	CT	each of these coals may locally be split into plies; not yet detailed		
		CU			
		C			
	D zone	DU	each of these coals may locally be split into plies; not yet detailed		
		DR			
		D			
			DE: carbonaceous shale		
	E zone	E	EU: thin dirty coal; locally coaly shale		
			E	EM	possibly a medial ash band between EM and EL
				EL	
			EF: carbonaceous shale		
	F zone	F	FU: coaly or carbonaceous shale; dirty coal when near F coal		
			F	FM	possibly a medial ash band between FM and FL
				FL	
			FG: carbonaceous shale		
	G zone	G	GU	two or three of these plies may locally conjoin	possibly a Z-shaped split, wherein GM ply laterally approaches GU or GL
			GM		
			GL		
	H zone	H	H	possibly a split; HL might be local lens	
			HL		
	I zone	I			
			IJ: carbonaceous or coaly shale		
	J zone	J	J: locally thick coal with rock partings, could be mapped as individual coal plies?		
			JK: coal shale or dirty coal		
	K zone	K	KR	K zone locally consists of three or four plies; few boreholes intersections so not yet detailed	
			KU		
			KM		
			KL		

At Hudette Main, with 55 historic and 5 current boreholes having been drilled within the property as of the effective date of this report, confidence in borehole-to-borehole correlations of coal beds ranges from fair to excellent. Part of this variance may be due to the sedimentological interaction between the coals' precursory wetland peats and nearby stream-channels, but significant complicating factors are the presence of thrust-faults and folds within the coal-measures, and the scarcity of outcrops of coals and other rocks.

Table 4-3: Orientation and horizons tested by historic boreholes

Borehole	Borehole set-up orientation		Horizon in which bore-hole started	Horizon in which borehole ended	Coal licence in which situated	UTM coordinates (NAD83 Zone 10)		Depth of borehole
	Azimuth	Dip				Easting	Northing	
83-14	0	-90	Gaylard	Gaylard	392551	558878.64	6149455.22	336.11
83-18	0	-90	Cowmoose	Gaylard	392476	556168.64	6148480.22	201.77
83-19	0	-90	Gaylard	Gaylard	392552	557078.64	6149315.22	251.66
HUD11-01	210	-60	above CG	within K?	392476	556021.56	6147896.61	176.78
HUD11-01C	210	-60	above CG	below FG	392476	556021.56	6147896.61	122.50
HUD11-02	210	-60	above B	below KL	392476	555778.77	6147907.19	220.06
HUD11-03	210	-60	above A?	below GL?	392476	556325.25	6147854.24	177.00
HUD11-04	210	-60	above B	below IJ	392476	556246.55	6147767.82	170.68
HUD11-05	210	-75	above B	below J	392476	556429.40	6147619.50	171.29
HUD11-06	210	-60	above B	below E	392476	555554.41	6148210.30	65.53
HUD11-07	210	-60	Green Mkr.	below J	392476	555851.18	6148185.77	243.84
HUD11-07C	210	-60	Cowmoose	below FU	392476	555871.18	6148185.77	160.02
HUD11-08	0	-90	Cowmoose	below JK	392476	555854.23	6148187.48	216.46
HUD11-09	210	-75			392476	556698.39	6147412.51	144.78
HUD12-01	215	-60	Cowmoose	below F	392476	556020.76	6147382.28	234.69
HUD12-01C	215	-60	above B?	below F	392476	556020.76	6147382.28	122.50
HUD12-02	215	-60			418537	555201.89	6148570.56	187.45
HUD12-03	215	-60			418537	555607.38	6148330.32	225.52
HUD12-04	215	-75			392476	556546.29	6147761.42	248
HUD12-05	215	-60			392476	555726.24	6147655.42	124.96
HUD12-06	035	-60	Bluesky	OT Bullmoose	392476	556472.89	6148092.22	240.79
HUD12-07	215	-60			392476	556093.89	6148000.29	192.02
HUD12-08	035	-60	Bullmoose	below I	392476	556595.16	6148235.57	213.36
HUD12-09	035	-60	above DE?	below GL	392550	556810.65	6147865.62	210.31
HUD12-10	0	-90			392476	556786.64	6147584.11	249.93
HUD12-11	215	-75	above CU	below K	392476	556556.22	6147500.80	240.79
HUD12-12	035	-60	above FU	below I?	392476	555993.80	6148351.07	184.40
HUD12-13	215	-60	above GU	below OT FU	392476	555992.61	6148348.66	259.08
HUD12-14	0	-90			392550	556897.63	6147275.75	243.84
HUD12-15	215	-60	above D	below OT I	392476	556244.41	6148195.49	195.07
HUD12-16	0	-90		below H	392550	557189.43	6147110.07	252.98
HUD12-17	035	-60	Cowmoose	below A	392476	556352.74	6148351.25	97.53
HUD12-18	0	-90			392474	557426.68	6147037.93	210.31
HUD12-19	0	-90	Cowmoose	below KM	392476	556347.50	6148344.64	251.46
HUD12-20	035	-75			392550	557286.16	6147379.65	249.93
HUD12-21	215	-60	above F	below GL	392550	556804.52	6147858.59	251.46
HUD12-21C	215	-60	above FU	below OT FU	392550	556804.47	6147858.81	116.43
HUD12-22	0	-90	above B	below IJ	392550	556810.57	6148567.99	243.84
HUD12-23	0	-90	above B	below J	392476	556614.91	6148468.00	237.74
HUD12-24	0	-90	Cowmoose	below K	392550	557172.41	6148394.41	298.70
HUD12-25	0	-90	above C	below J	392550	557649.18	6147791.68	259.08
HUD12-26	0	-90	above D	below IJ	392550	557167.47	6147887.06	210.31
HUD12-27	035	-60	above D?	below DE?	392550	557167.94	6147887.62	84.20
HUD12-28	0	-90		below E?	392476	556217.07	6148910.58	252.98
HUD12-29	0	-90	Spieker?	Cowmoose?	392476	556580.85	6148922.98	230.72
HUD12-30	0	-90	Cowmoose?	below F	392553	555657.31	6149178.54	249.93

Table 4-3: Orientation and horizons tested by historic boreholes (concluded)

Borehole	Borehole set-up orientation		Horizon in which bore-hole started	Horizon in which borehole ended	Coal licence in which situated	UTM coordinates (NAD83 Zone 10)		Depth of borehole
	Azimuth	Dip				Easting	Northing	
HUD12-31	0	-90	above B	within FU?	392553	555992.22	6149146.73	249.93
HUD12-31C	0	-90	above B	below E	392553	555989.39	6149141.16	249.93
HUD12-32	0	-90			392476	555714.73	6148735.36	249.93
HUD12-33	0	-90			392476	555960.62	6148601.76	249.93
HUD12-34	0	-90	above EU	below IJ	392476	555754.25	6148542.78	249.94
HUD13-01C	210	-60	above DU	below IJ	392476	555758.30	6147908.00	110.00
HUD13-02C	035	-60	Cowmoose	below KL	392476	556337.40	6148335.00	252.00
HUD13-03C	215	-60	above DE	below J	418537	555187.90	6148487.00	182.50
HUD13-04	0	-90	Cowmoose	below J	392476	556466	6148758	197.45
HUD13-05	0	-90	above A?	below JK	392476	556737	6148438	188.97
HUD13-06	0	-90	above A?	Cowmoose?	392476	556004.29	6147626.20	207.70
HUD13-07	0	-90	above CT	below B	392476	555321.78	6147938.35	240.79
HUD13-07C	0	-90	above CT	below D	392476	555321.78	6147938.35	58.53
HUD13-08	0	-90	above CU?	below JK	392476	556446.23	6147895.16	213.36

Note: blank entries indicate that correlation studies are still underway.

As noted above, coal zones generally contain more than one coal bed, and some of the coal beds may contain more than one recognisable coal ply, separated by laterally-persistent rock partings. **Table 4-2** presents an updated schema for the coals and variably-carbonaceous shale markers at Hudette Main. All of the coal zones contain at least one coal bed with gross thickness greater that one metre, with the exception of zones H and I, which are characteristically single thinner coals.

The 'marker' bands noted in the rightmost column of **Table 4-2** generally display strong lateral persistence on geophysical density logs, but they have not yet been consistently-catalogued within the lithological interpretations presented in **Table A-4**, in favour of concentrated efforts to correlate potentially-mineable coals.

Tables 4-3 and **4-4** summarise the ranges of coal beds and other stratigraphic units interpreted to have been intersected by historic and current boreholes respectively.

Table 4-4: Orientation and horizons tested by current boreholes

Borehole	Borehole set-up orientation		Horizon in which bore-hole started	Horizon in which bore-hole ended	Coal licence in which situated	UTM coordinates (NAD83 Zone 10)		Depth of borehole
	Azimuth	Dip				Easting	Northing	
MW20-01D	0	-90	above B	below J	392476	556703.80	6147634.83	150.07
MW20-01S	0	-90	below B	below DE	392476	556703.76	6147642.16	61.76
MW20-02D	0	-90	above B?	below EF?	392552	556824.72	6149847.64	153.16
MW20-02S	0	-90	below B?	below B?	392552	556833.52	6149848.27	37.34
VW20-01	0	-90	above EU	below KL	392550	557121.36	6148270.48	250.00

Note: borehole locations from high-precision GPS. Grey-shaded horizons are fine-grained marine units within the Moosebar Formation

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7 Reclamation

Reclamation of the Spring 2020 borehole pads has not yet commenced, other than to remove drilling machinery, materials, and trash from completed sites.

Inasmuch as access to the borehole sites has been via existing logging roads, and these roads are needed for ongoing use, reclamation work on those roads will consist principally of restoring water-bars and access-barring cross-berms.

8 Statement of costs

Cost data for the 2019-2020 work term have been accumulated on a daily spreadsheet maintained by Hudette's project geologist, Jerry Holmes PGeo. Ancillary items such as first aid and security attendants. and provision of vacuum-truck and water-truck services, were sub-contracted out through the drilling contractor, Anderson Water Services Ltd.

Major contractors were as follow in **Table 8-1**. Unit costs on a per-metre basis are presented in **Table 8-2**. Note again that costs are derived from a daily spreadsheet, and are preliminary in light of most invoices having not yet arrived.

Table 8-1: Contractors and expenditures to April 8, 2019

		Expenditure
Catwork, including ploughing of snow, and assistance with rig moves	Can-West Exploration Ltd.	$171,366.66
Drilling contractor, and sub-contracted support services	Anderson Water Services Ltd.	$552,408.31
-- subcontractor, security/first aid	All Nations Security and Medics	n/a
-- subcontractor, vacuum trucks	Compass Tanker Services	n/a
Environmental monitoring services	Plan B Technical Services Inc.	$30,750.00
Gas hazard consulting	DMT	$16,400.00
Geological supervision and site management	Apex Geoscience Ltd.	$32,040.00
Geophysical borehole logging	Century Wireline Services Ltd.	$56,820.00
Hydrogeological consulting and groundwater test installations	Lorax Environmental Services Ltd.	$283,287.90
	Total amount	*$1,143,072.87*

Note: although coal samples have been collected, analytical work has not yet commenced. Similarly, although five boreholes have been drilled, surveying had not yet been done as of April 8th, the end of the 2019-2020 work term.

Breakdown of total and unit costs by activity: **Table 8-2**

Year	Boreholes	Number of holes	Metreages		Estimated drilling costs		Estimated non-drilling costs						Totals
			Open-hole drilling	Diamond drilling	Open-hole drilling (including sub-contracted services	Diamond drilling	Geophysical logging	Coal assays	Catwork (including snow clearing)	Personnel (geological, environmental, and gas hazard support by contractors)	Hydro-geological supervision and well installations	Photo-geo-logical mapping	
2019-2020	MW20-01D, MW20-01S, MW20-02D, MW20-02S, VW20-01	5 holes	652.22 metres	nil	$552,408.31	nil	$56,820.00	nil	$171,366.66	$79,190	$283,287.90	nil	$1,143,072.87
Year			Metreages		unit costs per metre of drilling								
			Open-hole drilling	Diamond drilling									
2019-2020	as above	5 holes	652.22 metres		$846.97 / m	n/a	$87.12 / m	n/a	$262.74 / m	$121.42 / m	$434.34 / m	n/a	$1752.59 / m
British Columbia average unit costs / metre, for comparison			n/a	n/a	$201.53 / m	$210.34 / m	$17.56 /m	n/a	$23.30 / m	$20.49 / m	n/a	n/a	n/a

8.1 Discussion

Unit and total costs were unusually high in the Hudette Main 2019-2010 work programme. Several factors may have contributed to the high costs:

- initial 'front-end loading' of snow-clearing costs, from a road network which in places was covered by four metres of snow;
- onset of the vernal 'break-up' season, with prevalent thawing of the roads during daytime, and considerable input of meltwater into roadside ditches;
- unexpected large ditches across existing roads, not seen during the summer 2019 reconnaissance, and further unseen beneath the deep snowpack;
- slow rate of drilling progress, occasioned by the need to frequently halt drilling in order to undertake necessary hydro-geological testwork; and
- mechanical breakdown of one of the drilling rigs.

Despite these cost issues, drilling of Hudette Main during the 2019-2020 work term was successful in meeting its technical (hydrogeological) and exploratory objectives.

9 References

Allen, M. and Minev, I.

2017: Technical report - Hudette Coal Property, British Columbia, Canada*; Norwest Corporation*, unpublished report 973-16 dated August 30, 2017, for Conuma Coal Resources Limited.

British Columbia Ministry of Forests, Lands, Natural Resource Operations and Rural Development

2018: Biogeoclimatic ecosystem classification subzone/variant map for the Dawson Creek Subunit, Peace Resource District, Northeast Region; map dated August 2018.

Cathyl-Huhn, C.G.

2015a: Coal assessment report for the Mink North coal property, British Columbia, Canada; *Walter Canadian Coal Partnership*, unpublished report dated February 19, 2015; *British Columbia Geological Survey Branch*, Coal Assessment Report 972.

2015b: Coal assessment report for the Hudette Trend coal property, British Columbia; *Walter Canadian Coal Partnership*, unpublished report dated March 18, 2015; *British Columbia Geological Survey Branch*, Coal Assessment Report 979.

DeLong, C.

2004: A field guide to site identification and interpretation for the Northern Central portion of the Northern Interior Forest Region; *British Columbia Ministry of Forests*, Forest Science Program, Land Management Handbook 54.

DeLong, C., Tanner, D., and Jull, M.

1984: A field guide for site identification and interpretation for the Northern Rockies portion of the Prince George Forest Region; *British Columbia Ministry of Forests*, Research Branch, Land Management Handbook 29.

Dyson, P.

1973: Pine Pass coal project, northeast British Columbia (phase I); Paul Dyson Consultants, on behalf of *Pan Ocean Oil Ltd*., unpublished report PR - Pine Pass 73(1)A, dated June 1973; *British Columbia Geological Survey Branch*, Coal Assessment Report No. 583.

1975a: Falls Mountain coal project, northeast British Columbia: 1975 program; Paul Dyson Consultants, on behalf of *McIntyre Mines Ltd*.; unpublished report PR - Falls Mountain 75(1)A, dated October 1975; *British Columbia Geological Survey Branch*, Coal Assessment Report No. 526.

1975b: Pine Pass coal project, N.E. British Columbia; Paul Dyson Consultants, on behalf of *Pan Ocean Oil Ltd*.; unpublished report PR - Pine Pass 75(1)A, dated October 1975; *British Columbia Geological Survey Branch*, Coal Assessment Report No. 584.

1977: Pine Pass coal project, northeast British Columbia: 1976 - 1977; Paul Dyson Consultants, on behalf *of Pan Ocean Oil Ltd*.; unpublished report PR - Pine Pass 77(1)A, dated December 1977; *British Columbia Geological Survey Branch*, Coal Assessment Report No. 585.

Gibson, D.
1992: Stratigraphy, sedimentology, coal geology and depositional environments of the Lower Cretaceous Gething Formation, northeastern British Columbia and west-central Alberta; *Geological Survey of Canada*, Bulletin 431, 127 pages.

Hovis, S.T., Crawford, J. and Coombes, S.F.
2006: Assessment report for the Falling Creek coal property, Peace River District; *Kennecott Canada Exploration Inc*., unpublished report dated January 3, 2006, *British Columbia Geological Survey Branch*; Coal Assessment Report No. 888.

Hughes, J.D., Klatzel-Mudry, L., and Nikols, D.J.
1989: A standardised coal resource/reserve reporting system for Canada; *Geological Survey of Canada*, Paper 88-21.

Hughes, J.E.
1963: The Peace and Pine River Foothills (structures and tectonics); *McGill University*, unpublished Ph.D. dissertation dated September 1963.

1964: Jurassic and Cretaceous strata of the Bullhead succession in the Peace and Pine River Foothills; *British Columbia Department of Mines and Petroleum Resources*, Bulletin 51.

Kilby, W.E.
1985: Tonstein and bentonite correlations in northeast British Columbia (93O, P, I; 94A)*; British Columbia Ministry of Energy, Mines and Petroleum Resources*, Geological Fieldwork 1984, pages 257 to 278.

Klatzel-Mudry, L., Horgan, J. and Hallas, D.
1982: Geology of the Falling Creek property; *Esso Resources Canada Ltd*., unpublished report PR - Falling Creek 82(1)A; *British Columbia Geological Survey Branch*; Coal Assessment Report No. 524.

Klatzel-Mudry, L., Horgan, J., Hallas, D. and Wright, B.
1984: Geology of the Falling Creek property; *Esso Resources Ltd*., unpublished report PR - Falling Creek 83(1)A; *British Columbia Geological Survey Branch*, Coal Assessment Report No. 525.

MacKenzie, A.
1801: Voyages from Montreal on the River St. Lawrence, through the continent of North America, to the Frozen and Pacific Oceans in the years 1789 and 1793; Cadell, London, 412 pages.

Newson, A.C.
1980a: Pine Pass coal project, 1978, N.E. British Columbia; unpublished report PR - Pine Pass 79(2)A; dated January, 1980 on behalf of *Norcen Energy Resources Ltd*.; *British Columbia Geological Survey Branch*, Coal Assessment Report No. 587.

1980b: Pine Pass coal project, 1980, N.E. British Columbia; unpublished report PR - Pine Pass 80(1)A; dated July, 1980 on behalf of *Norcen Energy Resources Ltd*.; *British Columbia Geological Survey Branch*, Coal Assessment Report No. 588.

Okuyama, Y., Miyazu, T., Sugimura, H. and Kumagai, M.
1970: Prediction of the coking property of coal by microscopic analysis: *Nenryō Kyōkai-shi* [*Journal of the Fuel Society of Japan*], volume 49, no.522, pages 736 to 743; accessed on 26 March 2014 from *https://www.jstage.jst.go.jp/article/jie1922/49/10/49_10_736/_pdf*

Panchy, E.G.
1979: Pine Pass coal property 1979; unpublished report PR - Pine Pass 79(1)A, dated December 28, 1979, on behalf of *Shell Canada Resources Limited*; *British Columbia Geological Survey Branch*, Coal Assessment Report No. 586.

Pearson, D.E.
1980: The quality of western Canadian coking coal*; Canadian Mining and Metallurgical Bulletin*, January 1980, pages 1 to 15.

Ryan, B.
2010: Technical report: Hasler Creek coal property, unpublished report on behalf of *Unicorn International Mines Group Inc*., dated March 1st, 2010; 77 pages.

Stott, D.F.
1968: Lower Cretaceous Bullhead and Fort St. John groups, between Smoky and Peace rivers, Rocky Mountain Foothills, Alberta and British Columbia; *Geological Survey of Canada*, Bulletin 152, 279 pages.

1973: Lower Cretaceous Bullhead Group between Bullmoose Mountain and Tetsa River, Rocky Mountain Foothills, Northeastern British Columbia; *Geological Survey of Canada*, Bulletin 219, 228 pages.

Sultan, M.
2015: Coal assessment report for the Hudette coal property, British Columbia*; Walter Canadian Coal Partnership*, unpublished report dated June 24, 2015*; British Columbia Geological Survey Branch*, Coal Assessment Report 989.

Sultan, M. and Cathyl-Huhn, C.G.
2014: Coal assessment report for the Mink Creek coal property, British Columbia*; Walter Canadian Coal Partnership*, unpublished report dated December 30, 2014*; British Columbia Geological Survey Branch*, Coal Assessment Report 966.

10 Conclusions

The Hudette Main coal property contains indicated and inferred coal resources (as enumerated in **Chapter 6** of this report) hosted by coal-measures of Early Cretaceous age, within the Gething Formation. Hudette Main coals are Group 2 and Group 3 medium-volatile bituminous coals, as indicated by their composition and mean maximum vitrinite reflectance (as discussed **in Chapter 5** of this report).

The coal-measures of the Hudette Main property are deformed by folded, imbricate thrust faults and associated steep-dipping folds, consistent with an overall thin-skinned structural style. Normal stratigraphic sequences are preserved within the coal-measures, and their contained coal beds present recognisable and readily-correlatable geophysical log responses. Overturned strata have not thus far been recognised, and would be expected to be rare. Stratigraphic inversions within substantially-angled boreholes are occasionally found, where the borehole trajectory 'climbs' stratigraphically with increasing depth.

Closely-spaced drilling (ca. 175 m spacing) will be required to establish the extent of structural disruption of the Gething coal-measures. This disruption is further complicated by the vertically-anastomosing nature of closely-associated coal beds and coal-plies within broader coal zones.

Physical work at Hudette Main during the 2019-2020 work programme comprised drilling of 5 hydrogeological test holes, with total length of 652.22 metres. Including historic work conducted between 1983 and 2013, total drilling to date within the Hudette Main property comprises 58 boreholes with an aggregate length of 12727.26 metres.

Cost of the 2019-2020 work programme (involving 652.22 metres of drilling) was $1,143,072.87, equivalent to a unit cost of $1,752.59 per metre drilled. Deep snow cover, and the inherent complexity of the hydrogeological testing and installation programme, are among possible factors contributing to the high cost of work done.

The Hudette Main drilling programme has continued onward into the 2020-2021 work term. As such, its further results will be presented in a forthcoming Coal Assessment Report.

11 Recommendations

A work permit is in hand for continued physical exploration work at Hudette Main, under the rubric of the 'NOW-1' drilling programme. Further permitting work is under way to expand the drilling programme further as 'NOW-2', anticipating that work will continue until some time in 2021.

11.1 NOW-1 recommendations

The remainder of the currently-planned and currently-permitted borehole sites are shown as black cross-dots on **Map 11-1**, and outlined in **Table 11-1**. Borehole sites are lettered, whereas the resultant boreholes themselves will be numbered. Not every site may be drilled; conversely, more than one borehole may be drilled (at different orientations) on any given site.

Lengths of boreholes are anticipated to range from 100 to 250 metres, with selection of final depths to be based upon drilling results. Orientations of the boreholes are expected to mostly be vertical, but some angled drilling will likely be required to assess structure within areas expected or already-known to have steep-dipping strata or other structural complexities.

Table 11-1: Recommended NOW-1 borehole sites

Drill pad	UTM NAD83 Zone 10		Drill pad	UTM NAD83 Zone 10		Drill pad	UTM NAD83 Zone 10	
	Easting	Northing		Easting	Northing		Easting	Northing
A	555082	6148242	J	556308	6148561	U	556813	6149853
B	555554	6148212	K	556441	6148684	V	557810	6148660
C	554991	6148720	L	556542	6148272	W	558050	6149120
D	555180	6148991	M	557107	6148277	X	558570	6148185
E	555627	6149059	N	557416	6148285	Z	555421	6148516
F	556019	6148858	P	556675	6147549	AE	555604	6148868
G	554868	6149207	S	556130	6149619	AF	555441	6148880
H	554851	6149589	T	556434	6149682	AG	555431	6148687
I	555821	6149428						
Total	*25 sites*							

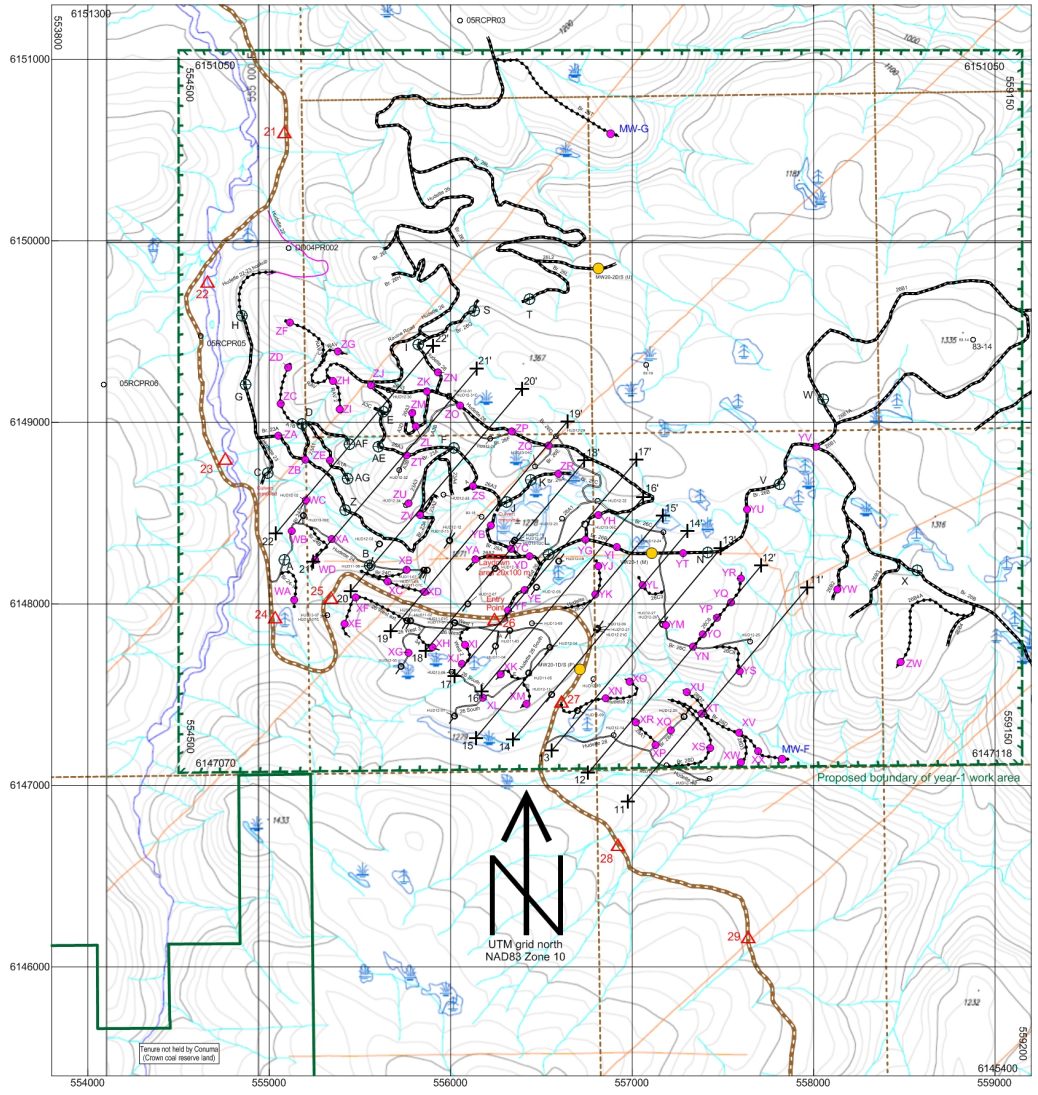
11.2 NOW-2 proposals

Proposed follow-up borehole sites are shown as magenta dots on **Map 11-1**, and outlined in **Table 11-2**. Seventy-three borehole sites are proposed for permitting. These sites cover locations where infill drilling is presently expected to be beneficial to understanding of geological structure.

As with NOW-1, NOW-2 borehole sites are lettered, whereas those holes eventually drilled will be serially-numbered. Again, not every site may be drilled, and more than one borehole might be drilled at differing orientations from any single drill pad. Orientations of these boreholes are anticipated to be mostly angled, with dip and azimuth guided by an updated geological model of the Hudette Main coal deposit.

Table 11-2: Proposed NOW-2 borehole sites

Drill pad	UTM NAD83 Zone 10		Drill pad	UTM NAD83 Zone 10		Drill pad	UTM NAD83 Zone 10	
	Easting	Northing		Easting	Northing		Easting	Northing
WA	555138	6148022	XV	557588	6147292	YV	558012	6148867
WB	555123	6148403	XW	557598	6147128	YW	558131	6148079
WC	555201	6148570	XX	557695	6147189	ZA	555050	6148926
WD	555251	6148242	YA	556138	6148245	ZB	555199	6148794
XA	555343	6148356	YB	556220	6148431	ZC	555062	6149104
XB	555757	6148188	YC	556333	6148305	ZD	555103	6149302
XC	555652	6148125	YD	556435	6148264	ZE	555334	6148790
XD	555854	6148065	YE	556406	6148076	ZF	555113	6149551
XE	555415	6147890	YF	556317	6147965	ZG	555378	6149391
XF	555475	6148035	YG	556744	6148353	ZH	555349	6149229
XG	555766	6147731	YH	556813	6148491	ZI	555387	6149071
XH	555899	6147763	YI	556915	6148314	ZJ	555559	6149203
XI	556078	6147776	YJ	556813	6148207	ZK	555870	6149172
XJ	556063	6147669	YK	556798	6148052	ZL	555807	6148976
XK	556274	6147611	YL	557059	6148103	ZM	555789	6149053
XL	556176	6147485	YM	557185	6147885	ZN	555929	6149276
XM	556419	6147451	YN	557334	6147765	ZO	556050	6149093
XN	556855	6147480	YO	557391	6147833	ZP	556336	6148951
XO	556986	6147573	YP	557466	6147923	ZQ	556539	6148872
XP	557128	6147223	YQ	557545	6148009	ZR	556595	6148716
XQ	557214	6147305	YR	557598	6148141	ZS	556123	6148650
XR	557019	6147347	YS	557593	6147631	ZT	555757	6148820
XS	557431	6147207	YT	557282	6148280	ZU	555767	6148554
XT	557381	6147394	YU	557632	6148520	ZV	555830	6148489
XU	557302	6147513						
Total:	*73 sites*							



HUDETTE MAIN

Drawing: Hudette-NOW_2-10B_200426j.srf/jpg
By: C.G. Cathyl-Huhn PGeo, 26 April 2020 Scale: as shown
Grid: UTM NAD83 Zone 10 Base map: TRIM sheets at 1:20,000

Pad	Easting	Northing
WA	555138	6148022
WB	555123	6148403
WC	555201	6148570
WD	555251	6148242
XA	555343	6148356
XB	555757	6148188
XC	555652	6148125
XD	555854	6148065
XE	555415	6147890
XF	555475	6148035
XG	555766	6147731
XH	555899	6147763
XI	556078	6147776
XJ	556063	6147669
XK	556274	6147611
XL	556176	6147485
XM	556419	6147451
XN	556855	6147480
XO	556986	6147573
XP	557128	6147223
XQ	557214	6147305
XR	557019	6147347
XS	557431	6147207
XT	557381	6147394
XU	557302	6147513
MW-F	557828	6147147

Pad	Easting	Northing
XV	557588	6147292
XW	557598	6147128
XX	557695	6147189
YA	556138	6148245
YB	556220	6148431
YC	556333	6148305
YD	556435	6148264
YE	556406	6148076
YF	556317	6147965
YG	556744	6148353
YH	556813	6148491
YI	556915	6148314
YJ	556813	6148207
YK	556798	6148052
YL	557059	6148103
YM	557185	6147885
YN	557334	6147765
YO	557391	6147833
YP	557466	6147923
YQ	557545	6148009
YR	557598	6148141
YS	557593	6147631
YT	557282	6148280
YU	557632	6148520
YV	558012	6148867
MW-G	556882	6150589

Pad	Easting	Northing
YW	558131	6148079
ZA	555050	6148926
ZB	555199	6148794
ZC	555062	6149104
ZD	555103	6149302
ZE	555334	6148790
ZF	555113	6149551
ZG	555378	6149391
ZH	555349	6149229
ZI	555387	6149071
ZJ	555559	6149203
ZK	555870	6149172
ZL	555807	6148976
ZM	555789	6149053
ZN	555929	6149276
ZO	556050	6149093
ZP	556336	6148951
ZQ	556539	6148872
ZR	556595	6148716
ZS	556123	6148650
ZT	555757	6148820
ZU	555767	6148554
ZV	555830	6148489
ZW	558479	6147683

Canfor logging road (one or two lanes, gravel)
Walter Energy drilling trail (one lane, dirt)
Seismic line (unclassified as to driveability)
Dirt or gravel trail (unclassified - from TRIM)
Falling Creek Connector Road -- high-grade two-lane gravel road
Proposed new access trail
Kilometre markers along road

Historic borehole
Current borehole (NOW-1)
NOW-1 drill site (permitted)
NOW-2 drill site (proposed)

Note -- names of roads and trails are as assigned by Conuma

map scale in metres
0 400 800

Map 10-B

Conuma Coal Resources Limited

Hudette coal property: 2020 NOW-1 / -2 drilling programme

Recommended borehole locations: **Map 11-1**

12 Statement of qualifications

I, C.G. Cathyl-Huhn P.Geo.(BC) Lic.Geol.(WA) RMSME, do hereby certify that:

a) I am currently employed on a full-time basis as Chief Geologist, by Conuma Coal Resources Limited, in their Canadian head office in Tumbler Ridge, British Columbia.

b) This certificate applies to the current report, titled *Coal Assessment Report for the Hudette Main coal property, British Columbia*, dated April 30, 2020.

c) I am a member (Professional Geoscientist, Licence No.20550) of the Association of Professional Engineers and Geoscientists of British Columbia, licensed as a geologist (Licence No.2089) in Washington State, a member (No.152081) of the Association for Iron & Steel Technology, and a founding Registered Member of the Society for Mining, Metallurgy and Exploration (SME, Registered Member No.518350). I have worked as a colliery geologist in four countries for over 41 years since my graduation from university.

d) I certify that by reason of my education, affiliation with professional associations, and past relevant work experience, having written numerous published and private geological reports and technical papers concerning coalfield geology, coal-mining geology and coal-resource estimation, that I am qualified as a Qualified Person as defined by Canadian *National Instrument 43-101* and a Competent Person as defined by the Australian *JORC Code*.

e) I have worked as Chief Geologist for Conuma Coal Resources Limited since September of 2016. I previously worked as Senior Mine Geologist and Chief Geologist for Walter Energy Western Coal and successor firms, from November 2011 to August 2016.

f) My most recent visit to the Hudette Main coal property was in March of 2020.

g) I am the sole author of this report, titled *Coal Assessment Report for the Hudette Main coal property*, *British Columbia*, dated April 30, 2020, concerning the Hudette Main coal property.

h) I accept professional responsibility for this report.

i) As of the date of this report, I am not independent of Conuma Coal Resources Limited, pursuant to the tests in Section 1.4 of *National Instrument 43-101*, for the reason that I am a full-time employee of Conuma Coal Resources Limited.

j) The effective date of this report is April 8, 2020.

“original signed and sealed by”

Dated this 30th day of April, 2020.
Cumberland, British Columbia

C.G. Cathyl-Huhn P.Geo. Lic.Geol. RMSME

Appendix A Borehole data, geophysical details, and lithological interpretations

Construction details of current boreholes, including dates of commencement, attaining total depth, and geophysical logging, along with interpreted rockhead depth and borehole set-up geometry, are presented as **Table A-1**. Total drilling length and amount of casing installed (in both cases, as reported by the drillers) are 652.22 metres and 104.28 metres respectively.

Details of geophysical logging, including tool type, logs run, and depths reached, are presented in **Table A-2**.

Lithological interpretations of the gamma-density logs of selected historic and current boreholes are presented in **Tables A-3** and **A-4** respectively. Logs were not obtained in current borehole MW20-02S, on account of unstable borehole conditions.

Abbreviations used for lithology are as follow:

ASH:	Inferred volcanic ash (tonstein or bentonite) band (high gamma response)
C:	Coal (log-indicated density ca.1.3 to 1.5)
CBSH:	Carbonaceous shale or siltstone (log-indicated density 1.9 to 2.2)
CR:	Coaly rock (log-indicated density 1.7 to 1.9)
DC:	Dirty coal (log-indicated density 1.5 to 1.7)
DRIFT:	Unconsolidated to semi-consolidated materials overlying rockhead
IRST:	Ironstone (log-indicated density greater than ca. 2.7)
ND:	No data (interval between base of useful log curve and depth reached)
R:	Rock, undifferentiated (log indicated density greater than 2.2)

Abbreviations indicative of inferred structure are as follow:

BEGINS AS NORMAL:	Indication that strata are apparently in normal (i.e. not inverted) stratigraphic sequence relative to the borehole's trajectory. This indication is given as appropriate beneath interpreted faults.
FAULT:	Fault (further classified as 'possible', 'probable', or 'established')
FOLD:	Inflection point between normal/inverted (normal over inverted) and inverted/normal (inverted over normal) stratigraphic sequences, relative to the borehole's trajectory. Bedding is inferred to parallel borehole at these points.

Construction details of current boreholes: **Table A-1**

Borehole	Site details					Drilling event dates			Rockhead depth (m)	Casing base (m)		Total depth (m)		Bit size (mm)	Setup (degrees)	
	.Easting	Northing	Collar (m)	Pad	Coal license	Started drilling	At total depth	Logs run		Logger	Driller	Logger	Driller		Azimuth	Dip
MW 20-01D	556703.80	6147634.83	1300.34	P	392476	200316	200321	200322	15.4	15.53	18	150.07	150	152.4	0	90
MW 20-01S	556703.76	6147642.16	1300.74	P	392476	200325	200326	200326	15.7	16.15	16.15	61.68	61.76	152.4	0	90
MW 20-02D	556824.72	6149847.64	1211.53	U	392552	200401	200406	200406	23.6	43.0	43.13	153.15	153.16	139.7	0	90
MW 20-02S	556833.52	6149848.27	1210.97	U	392552	200328	200331	not logged	20.9	not logged	20.9	not logged	37.3	139.7	0	90
VW 20-01	557121.36	6148270.48	1285.20	M	392550	200317	200406	200407	5.3	5.7	6.1	249.86	250	152.4	0	90
5 holes											104.28		652.22			

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Geophysical logging details of current boreholes: **Table A-2**

	9239C1 tool		9058A tool		9411A tool		9411A tool		9325A tool	
Borehole	Density-Gamma-Caliper-Resistivity	Log bottom (m)	Gamma-Neutron	Log bottom (m)	Deviation	Log bottom (m)	Dipmeter	Log bottom (m)	Sonic	Log bottom (m)
MW 20-01D	yes	149.80	yes	149.62	yes	149.88	yes	149.88	no	
MW 20-01S	yes	61.40	yes	61.40	yes	56.00	yes	61.00	no	
MW 20-02D	yes	152.88	yes	152.88	yes	152.00	yes	152.50	no	
MW 20-02S	*Logs not run*									
VW 20-01	yes	249.60	yes	249.60	yes	249.00	yes	249.00	yes	249.76
	4 boreholes	613.68	4 boreholes	613.50	4 boreholes	606.88	4 boreholes	612.38	1 borehole	249.76

Lithological interpretation of selected historic boreholes: **Table A-3**

HUD11-01									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	3.85	3.85	DRIFT	DRIFT	556021.56	6147896.61	1305.62	178	yes
3.85	12.7	8.85	R						
12.7	13.15	0.45	CBSH	CG					
13.15	22.2	9.05	R						
22.2	22.65	0.45	CBSH	CK					
22.65	30.85	8.2	R						
30.85	31.3	0.45	CBSH	CN					
31.3	37.1	5.8	R						
37.1	37.15	0.05	FAULT	POSSIBLE					
37.15	37.3	0.15	CBSH	CQ					
37.3	37.7	0.4	R						
37.7	38.3	0.6	CBSH						
38.3	38.7	0.4	CR	CT					
38.7	39.05	0.35	DC	CU					
39.05	39.45	0.4	C	CU					
39.45	39.55	0.1	DC	CU					
39.55	39.75	0.2	CR						
39.75	40.2	0.45	CBSH						
40.2	40.35	0.15	CR						
40.35	40.7	0.35	DC	C					
40.7	40.9	0.2	C	C					
40.9	41	0.1	DC	C					
41	41.3	0.3	CBSH						
41.3	41.4	0.1	R						
41.4	41.6	0.2	CR						
41.6	41.75	0.15	FAULT	PROBABLE					
41.75	42.9	1.15	C	C					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
42.9	43.05	0.15	DC	C					
43.05	43.3	0.25	CR						
43.3	44.35	1.05	CBSH						
44.35	44.65	0.3	R						
44.65	45.45	0.8	CBSH						
45.45	45.65	0.2	CR						
45.65	46.05	0.4	CBSH						
46.05	46.3	0.25	CR						
46.3	47.4	1.1	C	DU					
47.4	47.45	0.05	FAULT	POSSIBLE					
47.45	49.4	1.95	C	DU					
49.4	49.6	0.2	DC	DU					
49.6	50.15	0.55	CBSH						
50.15	50.6	0.45	R						
50.6	50.8	0.2	CBSH						
50.8	51.1	0.3	DC	DR					
51.1	51.25	0.15	CR	DR					
51.25	51.4	0.15	DC	DR					
51.4	51.7	0.3	CR						
51.7	52.25	0.55	CBSH						
52.25	53.6	1.35	R						
53.6	53.85	0.25	CBSH						
53.85	54.3	0.45	R						
54.3	55.5	1.2	CBSH						
55.5	56.5	1	R						
56.5	56.9	0.4	CBSH						
56.9	56.95	0.05	FAULT	POSSIBLE					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
56.95	57.4	0.45	CBSH						
57.4	60.3	2.9	R						
60.3	60.5	0.2	CBSH						
60.5	61	0.5	CR						
61	61.1	0.1	DC	D					
61.1	61.8	0.7	C	D					
61.8	61.9	0.1	FAULT	PROBABLE					
61.9	62.3	0.4	CR	D					
62.3	62.75	0.45	DC	D					
62.75	63.2	0.45	CBSH						
63.2	63.7	0.5	R						
63.7	64.1	0.4	CR						
64.1	64.5	0.4	CBSH						
64.5	64.8	0.3	R						
64.8	65.5	0.7	CBSH						
65.5	66.1	0.6	R						
66.1	66.55	0.45	CBSH						
66.55	67.65	1.1	R						
67.65	68.15	0.5	IRST						
68.15	68.9	0.75	R						
68.9	69.4	0.5	CR	DE					
69.4	90.5	21.1	R						
90.5	90.9	0.4	DC	EU					
90.9	91.05	0.15	CR						
91.05	91.5	0.45	CBSH						
91.5	91.55	0.05	FAULT	POSSIBLE					
91.55	91.7	0.15	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
91.7	93.15	1.45	R						
93.15	94.65	1.5	C	E					
94.65	94.9	0.25	CBSH						
94.9	95.75	0.85	R						
95.75	95.9	0.25	CBSH						
95.9	97.6	1.7	R						
97.6	98.65	1.05	CBSH						
98.65	99.95	1.3	R						
99.95	100.3	0.35	CBSH						
100.3	100.6	0.3	R						
100.6	101.05	0.45	CBSH	EF					
101.05	101.6	0.55	CBSH						
101.6	101.8	0.2	R						
101.8	103.15	1.35	CBSH						
103.15	103.5	0.35	R						
103.5	103.7	0.2	CBSH						
103.7	104.6	0.9	R						
104.6	104.8	0.2	IRST						
104.8	106.05	1.25	R						
106.05	106.55	0.5	CBSH						
106.55	107.1	0.55	R						
107.1	107.35	0.25	CBSH						
107.35	107.7	0.35	DC	FU					
107.7	107.9	0.2	FAULT	POSSIBLE					
107.9	108.25	0.35	CBSH						
108.25	109	0.75	R						
109	109.25	0.25	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
109.25	109.5	0.25	C	F					
109.5	109.6	0.1	DC	F					
109.6	109.7	0.1	C	F					
109.7	109.9	0.2	DC	F					
109.9	110.05	0.15	C	F					
110.05	110.25	0.2	DC	F					
110.25	110.45	0.2	C	F					
110.45	110.65	0.2	DC	F					
110.65	111.5	0.85	C	F					
111.5	114.6	3.1	R						
114.6	114.85	0.25	CBSH						
114.85	129.35	14.5	R						
129.35	129.8	0.45	CBSH						
129.8	131.4	1.6	R						
131.4	131.5	0.1	CR						
131.5	131.85	0.35	DC	GU					
131.85	132	0.15	FAULT	POSSIBLE					
132	132.05	0.05	CR						
132.05	132.4	0.35	DC	GM					
132.4	132.6	0.2	C	GM					
132.6	132.8	0.2	DC	GL					
132.8	133	0.2	C	GL					
133	133.35	0.35	CR						
133.35	137.15	3.8	R						
137.15	137.75	0.6	CBSH	H					
137.75	141.85	4.1	R						
141.85	142.15	0.3	DC	I					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
142.15	142.35	0.2	C	I					
142.35	142.6	0.25	CBSH						
142.6	152.6	10	R						
152.6	153.15	0.55	IRST						
153.15	153.55	0.4	R						
153.55	153.7	0.15	DC	IJ					
153.7	153.85	0.15	FAULT	POSSIBLE					
153.85	154.1	0.25	DC	IJ					
154.1	168.2	14.1	R						
168.2	168.5	0.3	CBSH						
168.5	168.7	0.2	CR						
168.7	169.1	0.4	CBSH						
169.1	171.2	2.1	R						
171.2	171.75	0.55	CBSH						
171.75	172	0.25	DC						
172	172.3	0.3	CR						
172.3	172.5	0.2	DC						
172.5	173	0.5	CR						
173	173.21	0.21	R						
HUD11-01C									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	5.65	5.65	DRIFT	DRIFT	556021.56	6147896.61	1305.62	123	yes
5.65	12.95	7.3	R						
12.95	13.55	0.6	CBSH	CG					
13.55	22.65	9.1	R						
22.65	23.05	0.4	CBSH	CK					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
23.05	31.2	8.15	R						
31.2	31.35	0.15	CBSH						
31.35	31.6	0.25	CR	CN					
31.6	31.75	0.15	CBSH						
31.75	31.95	0.2	R						
31.95	32.3	0.35	CBSH						
32.3	32.35	0.05	FAULT	POSSIBLE					
32.35	32.7	0.35	CBSH						
32.7	37.75	5.05	R						
37.75	38.1	0.35	CBSH	CQ					
38.1	38.8	0.7	R						
38.8	39.05	0.25	CBSH						
39.05	39.25	0.2	R						
39.25	39.5	0.25	CBSH						
39.5	39.9	0.4	DC	CT					
39.9	40	0.1	CR						
40	40.3	0.3	DC	CU					
40.3	40.45	0.15	C	CU					
40.45	40.7	0.25	DC	CU					
40.7	41.15	0.45	CR						
41.15	41.75	0.6	C	C					
41.75	42	0.25	CR						
42	42.2	0.2	R						
42.2	42.5	0.3	CR						
42.5	42.6	0.1	FAULT	PROBABLE					
42.6	44.2	0.6	C	C					
44.2	44.4	0.2	DC	C					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
44.4	45	0.6	CBSH						
45	45.15	0.15	R						
45.15	46	0.85	CBSH						
46	46.85	0.85	R						
46.85	47.8	0.95	CBSH						
47.8	48.15	0.35	CR						
48.15	48.6	0.45	CBSH						
48.6	49.9	1.3	C	DU					
49.9	50.25	0.35	DC	DU					
50.25	50.5	0.25	C	DU					
50.5	50.7	0.2	DC	DU					
50.7	51.35	0.65	CBSH						
51.35	51.7	0.35	R						
51.7	51.9	0.2	CBSH						
51.9	52.25	0.35	CR	DR					
52.25	52.5	0.25	CBSH						
52.5	53.45	0.95	R						
53.45	53.7	0.25	CBSH						
53.7	54.3	0.6	R						
54.3	54.9	0.6	CBSH						
54.9	56.6	1.7	R						
56.6	56.75	0.15	CBSH						
56.75	57	0.25	FAULT	POSSIBLE					
57	57.8	0.8	CBSH						
57.8	61	3.2	R						
61	61.3	0.3	CBSH						
61.3	61.75	0.45	C	D					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
61.75	62.35	0.6	CBSH						
62.35	62.6	0.25	R						
62.6	63.05	0.45	CR						
63.05	63.45	0.4	CBSH						
63.45	64.95	1.5	R						
64.95	65.4	0.45	CBSH						
65.4	67.6	2.2	R						
67.6	68.15	0.55	CR	DE					
68.15	87.7	19.55	R						
87.7	88.1	0.4	DC	EU					
88.1	88.5	0.4	CBSH						
88.5	88.6	0.1	CR						
88.6	88.7	0.1	FAULT	POSSIBLE					
88.7	88.9	0.2	CBSH						
88.9	89.35	0.45	R						
89.35	89.6	0.25	CBSH						
89.6	89.85	0.25	CR						
89.85	90.2	0.35	C	E					
90.2	90.6	0.4	DC	E					
90.6	91.5	0.9	C	E					
91.5	91.8	0.3	CBSH						
91.8	94.3	2.5	R						
94.3	95.45	1.15	CBSH						
95.45	95.8	0.35	R						
95.8	96	0.2	CBSH						
96	96.4	0.4	R						
96.4	96.85	0.45	CR	EF					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
96.85	97.7	0.85	CBSH						
97.7	97.85	0.15	R						
97.85	98.6	0.75	CBSH						
98.6	99.6	1	R						
99.6	99.9	0.3	IRST						
99.9	100.6	0.7	R						
100.6	100.8	0.2	CBSH						
100.8	100.85	0.05	FAULT	POSSIBLE					
100.85	101.3	0.45	CR	FU					
101.3	101.45	0.15	CBSH						
101.45	104.3	2.85	R						
104.3	104.6	0.3	CBSH						
104.6	104.7	0.1	DC	F					
104.7	105.2	0.5	C	F					
105.2	105.35	0.15	FAULT	POSSIBLE					
105.35	105.55	0.2	C	F					
105.55	105.7	0.15	DC	F					
105.7	106.6	0.9	C	F					
106.6	108.3	1.7	R						
108.3	108.5	0.2	CBSH						
108.5	121.25	12.75	R						
121.25	121.65	0.4	CBSH	FG					
121.65	122.5	0.85	R						
HUD11-02									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	4.3	4.3	DRIFT	DRIFT	555778.77	6147907.19	1327.85	220	yes

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
4.3	11.15	6.85	R						
11.15	11.4	0.25	CR						
11.4	13.35	1.95	C	B					
13.35	13.8	0.45	DC	B					
13.8	13.85	0.05	FAULT	PROBABLE					
13.85	14.25	0.4	CBSH						
14.25	14.6	0.35	R						
14.6	15.2	0.6	CBSH						
15.2	15.9	0.7	CR	CT					
15.9	16.4	0.5	C	CU					
16.4	16.5	0.1	DC	CU					
16.5	16.6	0.1	CR						
16.6	17	0.4	CBSH						
17	18.2	1.2	C	C					
18.2	18.4	0.2	DC	C					
18.4	18.9	0.5	CR						
18.9	19	0.1	CBSH						
19	19.3	0.3	R						
19.3	20.05	0.75	CBSH						
20.05	21	0.95	C	DU					
21	21.4	0.4	DC	DU					
21.4	22.1	0.7	C	DU					
22.1	22.3	0.2	CR						
22.3	22.4	0.1	CBSH						
22.4	22.7	0.3	CR						
22.7	23.05	0.35	CBSH						
23.05	23.55	0.5	CR	DR					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
23.55	23.7	0.15	DC	DR					
23.7	23.9	0.2	CR	DR					
23.9	24.15	0.25	CBSH						
24.15	25.15	1	R						
25.15	25.55	0.4	CBSH						
25.55	26.55	1	R						
26.55	26.9	0.35	CBSH						
26.9	28.5	1.6	R						
28.5	28.9	0.4	CBSH						
28.9	29.5	0.6	R						
29.5	30.45	0.95	CBSH						
30.45	31.1	0.65	R						
31.1	31.5	0.4	CR	D					
31.5	36.4	4.9	R						
36.4	36.45	0.05	CBSH	DE					
36.45	49.6	13.15	R						
49.6	49.95	0.35	DC	EU					
49.95	50.3	0.35	CBSH						
50.3	50.55	0.25	FAULT	PROBABLE					
50.55	50.8	0.25	CR	EU					
50.8	51.6	0.8	R						
51.6	51.8	0.2	CBSH						
51.8	52.05	0.25	CR						
52.05	52.85	0.8	C	E					
52.85	53.05	0.2	CBSH						
53.05	64.6	11.55	R						
64.6	65.45	0.85	CBSH	EF					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
65.45	69.75	4.3	R						
69.75	70.05	0.3	CBSH						
70.05	70.55	0.5	CR	FU					
70.55	71.85	1.3	R						
71.85	72.3	0.45	C	F					
72.3	72.65	0.35	DC	F					
72.65	73.1	0.45	C	F					
73.1	73.25	0.15	FAULT	PROBABLE					
73.25	73.55	0.3	C	F					
73.55	73.7	0.15	DC	F					
73.7	74.45	0.75	C	F					
74.45	78.2	3.75	R						
78.2	78.35	0.15	ASH						
78.35	86	7.65	R						
86	86.4	0.4	CBSH	FG					
86.4	87.95	1.55	R						
87.95	88.05	0.1	CBSH						
88.05	88.5	0.45	DC	GU					
88.5	88.6	0.1	FAULT	POSSIBLE					
88.6	88.7	0.1	CBSH						
88.7	88.85	0.15	CR	GM					
88.85	89.25	0.4	CBSH						
89.25	89.8	0.55	C	GL					
89.8	92.9	3.1	R						
92.9	93.4	0.5	CBSH	H					
93.4	93.5	0.1	CR	H					
93.5	93.75	0.25	CBSH	H					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
93.75	95.9	2.15	R						
95.9	96.45	0.55	C	I					
96.45	96.7	0.25	R						
96.7	96.75	0.05	ASH						
96.75	108.25	11.5	R						
108.25	108.55	0.3	CBSH						
108.55	108.6	0.05	FAULT	POSSIBLE					
108.6	109	0.4	C	I					
109	109.8	0.8	R						
109.8	109.9	0.1	ASH						
109.9	119	9.1	R						
119	119.1	0.1	ASH						
119.1	119.3	0.2	R						
119.3	119.5	0.2	CBSH						
119.5	120.2	0.7	R						
120.2	120.6	0.4	CBSH	IJ					
120.6	120.85	0.25	CR	IJ					
120.85	121.2	0.35	CBSH	IJ					
121.2	125.9	4.7	R						
125.9	126.2	0.3	CR						
126.2	126.45	0.25	CBSH						
126.45	127.8	1.35	R						
127.8	128.65	0.85	C	J					
128.65	128.8	0.15	DC	J					
128.8	129.15	0.35	CR						
129.15	130	0.85	R						
130	130.35	0.35	CR						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
130.35	146.3	15.95	R						
146.3	146.6	0.3	CBSH						
146.6	161.8	15.2	R						
161.8	161.9	0.1	ASH						
161.9	164.2	2.3	R						
164.2	164.7	0.5	IRST						
164.7	164.8	0.1	R						
164.8	165.35	0.55	CBSH						
165.35	169.3	3.95	R						
169.3	169.4	0.1	ASH						
169.4	169.55	0.15	R						
169.55	170.05	0.5	CBSH						
170.05	170.4	0.35	CR	KR					
170.4	170.6	0.2	CBSH						
170.6	174.8	4.2	R						
174.8	175.1	0.3	CBSH	KU					
175.1	180.15	5.05	R						
180.15	180.75	0.6	C	KM					
180.75	185.9	5.15	R						
185.9	186.15	0.25	CBSH						
186.15	188	1.85	R						
188	188.35	0.35	CBSH						
188.35	191.1	2.75	R						
191.1	191.45	0.35	CR	KL					
191.45	199.6	8.15	R						
199.6	199.95	0.35	CR						
199.95	200.15	0.2	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
200.15	200.4	0.25	CR						
200.4	200.5	0.1	CBSH						
200.5	204.8	4.3	R						
204.8	205.2	0.4	DC						
205.2	205.6	0.4	CBSH						
205.6	206	0.4	CR						
206	206.2	0.2	CBSH						
206.2	206.35	0.15	R						
206.35	207	0.65	CBSH						
207	207.5	0.5	R						
207.5	207.8	0.3	CBSH						
207.8	209.2	1.4	R						
209.2	209.7	0.5	DC						
209.7	212	2.3	R						
212	212.45	0.45	DC						
212.45	212.95	0.5	CBSH						
212.95	216.2	3.25	R						
216.2	216.5	0.3	CBSH						
216.5	216.79	0.29	R						
HUD11-03									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	12.85	12.85	DRIFT	DRIFT	556325.25	6147854.24	1306.72	177	yes
12.85	13.15	0.3	R						
13.15	13.25	0.1	DC	A					
13.25	13.35	0.1	CR	A					
13.35	13.5	0.15	DC	A					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
13.5	13.75	0.25	CBSH						
13.75	13.85	0.1	FAULT	POSSIBLE					
13.85	33.95	20.1	R						
33.95	34	0.05	FAULT	POSSIBLE					
34	39.7	5.7	R	Bluesky					
39.7	40	0.3	R						
40	40.3	0.3	CBSH						
40.3	42.4	2.1	R						
42.4	43.55	1.15	CBSH						
43.55	49.55	6	R						
49.55	50.7	1.15	CBSH						
50.7	58.25	7.55	R						
58.25	59.4	1.15	CBSH						
59.4	61.25	1.85	R						
61.25	61.5	0.25	CBSH						
61.5	62	0.5	DC	A					
62	62.35	0.35	R						
62.35	63.05	0.7	CBSH						
63.05	73.4	10.35	R						
73.4	74	0.6	CBSH						
74	75.9	1.9	R						
75.9	76.3	0.4	CBSH						
76.3	82.1	5.8	R						
82.1	82.85	0.75	CBSH						
82.85	96	13.15	R						
96	98.35	2.35	C	B					
98.35	98.6	0.25	FAULT	POSSIBLE					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
98.6	98.8	0.2	DC	B					
98.8	101.5	2.7	R						
101.5	102.1	0.6	CBSH						
102.1	106.5	4.4	R						
106.5	107.65	1.15	CBSH						
107.65	108	0.35	C	CT					
108	108.35	0.35	DC	CU					
108.35	108.65	0.3	C	CU					
108.65	108.9	0.25	CBSH						
108.9	109.25	0.35	R						
109.25	110.7	1.45	C	C					
110.7	111.1	0.4	DC	C					
111.1	111.6	0.5	CR						
111.6	111.95	0.35	R						
111.95	112.25	0.3	CBSH						
112.25	112.75	0.5	R						
112.75	113.1	0.35	CBSH						
113.1	113.35	0.25	R						
113.35	114.25	0.9	CBSH						
114.25	114.45	0.2	R						
114.45	115.45	1	CBSH						
115.45	115.75	0.3	DC	DU					
115.75	115.95	0.2	C	DU					
115.95	116.1	0.15	DC	DU					
116.1	116.5	0.4	C	DU					
116.5	116.85	0.35	DC	DU					
116.85	117.4	0.55	C	DU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
117.4	117.6	0.2	DC	DU					
117.6	118.1	0.5	CBSH						
118.1	118.35	0.25	DC	DR					
118.35	118.8	0.45	C	DR					
118.8	119.25	0.45	CBSH						
119.25	119.75	0.5	C	D					
119.75	119.9	0.15	DC	D					
119.9	120	0.1	FAULT	PROBABLE					
120	120.6	0.6	CBSH						
120.6	122.4	1.8	R						
122.4	123.85	1.45	C	DU					
123.85	124	0.15	DC	DU					
124	124.25	0.25	CR						
124.25	125	0.75	C	DR					
125	125.8	0.8	CBSH						
125.8	126.55	0.75	R						
126.55	127	0.45	DC	D					
127	127.7	0.7	CBSH						
127.7	129	1.3	R						
129	129.5	0.5	CBSH						
129.5	129.7	0.2	R						
129.7	130.15	0.45	CBSH						
130.15	130.8	0.65	R						
130.8	131.7	0.9	CBSH						
131.7	132.8	1.1	R						
132.8	134	1.2	CBSH						
134	136.3	2.3	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
136.3	136.6	0.3	CBSH						
136.6	137	0.4	DC	DE					
137	141.4	4.4	R						
141.4	142.1	0.7	CBSH						
142.1	153.75	11.65	R						
153.75	154.25	0.5	C	EU					
154.25	154.55	0.3	CR						
154.55	155	0.45	CBSH						
155	155.75	0.75	R						
155.75	156	0.25	CBSH						
156	156.75	0.75	DC	E					
156.75	157.05	0.3	C	E					
157.05	157.2	0.15	DC	E					
157.2	158	0.8	C	E					
158	159.45	1.45	R						
159.45	160	0.55	CBSH						
160	160.2	0.2	CR						
160.2	160.4	0.2	CBSH						
160.4	160.9	0.5	R						
160.9	161.15	0.25	CR						
161.15	161.4	0.25	CBSH						
161.4	161.7	0.3	CR						
161.7	162.5	0.8	CBSH						
162.5	163.4	0.9	R						
163.4	163.95	0.55	DC	EF					
163.95	165.3	1.35	R						
165.3	165.6	0.3	DC	FU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
165.6	165.95	0.35	CR						
165.95	166.2	0.25	CBSH						
166.2	167.3	1.1	R						
167.3	169.3	2	C	F					
169.3	175.3	6	R						
175.3	175.5	0.2	CR	GU					
175.5	175.85	0.35	CBSH						
175.85	176.1	0.25	CR	GM					
176.1	176.25	0.15	CBSH						
176.25	176.4	0.15	CR	GL					
176.4	176.63	0.23	R						
HUD11-04									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	15.3	15.3	DRIFT	DRIFT	556246.55	6147767.82	1314.87	171	yes
15.3	16.55	1.25	R						
16.55	16.95	0.4	CBSH						
16.95	19.3	2.35	R						
19.3	19.85	0.55	CBSH						
19.85	23.15	3.3	R						
23.15	23.5	0.35	CBSH						
23.5	24.45	0.95	R						
24.45	24.75	0.3	CBSH						
24.75	32.2	7.45	R						
32	2	32.65	0.45	CBSH					
32.65	34.4	1.75	R						
34.4	34.85	0.45	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
34.85	40	5.15	R						
40	40.7	0.7	CBSH						
40.7	51.1	10.4	R						
51.1	51.15	0.05	FAULT	POSSIBLE					
51.15	55.5	4.35	R						
55.5	56.1	0.6	CBSH						
56.1	68.4	12.3	R						
68.4	69.85	1.45	C	B					
69.85	70.25	0.4	DC	B					
70.25	70.7	0.45	C	B					
70.7	71.1	0.4	DC	B					
71.1	72.55	1.45	R						
72.55	72.95	0.4	CBSH						
72.95	74.6	1.65	R						
74.6	74.9	0.3	CBSH						
74.9	75.45	0.55	CR	CT					
75.45	75.8	0.35	CBSH						
75.8	75.9	0.1	CR						
75.9	76.45	0.55	C	CU					
76.45	76.55	0.1	CR						
76.55	76.9	0.35	CBSH						
76.9	77.85	0.95	C	C					
77.85	78.05	0.2	DC	C					
78.05	78.15	0.1	CBSH						
78.15	78.95	0.8	R						
78.95	79.3	0.35	CBSH						
79.3	79.45	0.15	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
79.45	79.5	0.05	FAULT	POSSIBLE					
79.5	79.6	0.1	R						
79.6	80.5	0.9	CBSH						
80.5	80.65	0.15	CR						
80.65	81.1	0.45	R						
81.1	81.85	0.75	C	DU					
81.85	82.2	0.35	CR	DU					
82.2	82.7	0.5	C	DU					
82.7	83.2	0.5	CBSH						
83.2	83.7	0.5	R						
83.7	84	0.3	DC	DR					
84	84.7	0.7	CBSH						
84.7	85.7	1	R						
85.7	86	0.3	CBSH						
86	86.45	0.45	R						
86.45	86.8	0.35	CBSH	D					
86.8	88	1.2	R						
88	88.05	0.05	FAULT	POSSIBLE					
88.05	91	2.95	R						
91	91.4	0.4	CBSH	DE					
91.4	92.55	1.15	R						
92.55	92.9	0.35	IRST						
92.9	103.7	10.8	R						
103.7	104.35	0.65	C	EU					
104.35	104.75	0.4	CBSH						
104.75	105.15	0.4	CR						
105.15	105.8	0.65	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
105.8	106.3	0.5	CBSH						
106.3	107	0.7	C	E					
107	107.35	0.35	DC	E					
107.35	107.9	0.55	C	E					
107.9	109.4	1.5	R						
109.4	110.05	0.65	CBSH						
110.05	110.8	0.75	R	EF					
110.8	111.15	0.35	DC						
111.15	112.35	1.2	R						
112.35	112.7	0.35	IRST						
112.7	113.2	0.5	R						
113.2	113.5	0.3	DC	FU					
113.5	114.1	0.6	CR	FU					
114.1	115.9	1.8	R						
115.9	116.6	0.7	DC	F					
116.6	117	0.4	C	F					
117	117.15	0.15	FAULT	POSSIBLE					
117.15	118.4	1.25	C	F					
118.4	118.7	0.3	CR						
118.7	126.1	7.4	R						
126.1	126.4	0.3	CBSH						
126.4	136.2	9.8	R						
136.2	136.6	0.4	IRST						
136.6	141.8	5.2	R						
141.8	141.95	0.15	CBSH						
141.95	142.3	0.35	DC	GU					
142.3	142.65	0.35	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
142.65	142.8	0.15	FAULT	POSSIBLE					
142.8	143.2	0.4	C	GM					
143.2	143.4	0.2	DC	GL					
143.4	143.6	0.2	D	GL					
143.6	143.8	0.2	DC	GL					
143.8	152.05	8.25	R						
152.05	152.35	0.3	CBSH	H					
152.35	152.7	0.35	R						
152.7	153.4	0.7	CBSH	HL					
153.4	157	3.6	R						
157	157.6	0.6	C	I					
157.6	157.8	0.2	DC	I					
157.8	161.2	3.4	R						
161.2	161.5	0.3	CBSH						
161.5	162.15	0.65	R						
162.15	162.9	0.75	CBSH						
162.9	163.55	0.65	R						
163.55	163.9	0.35	CBSH						
163.9	164.15	0.25	R						
164.15	164.85	0.7	CBSH						
164.85	169.8	4.95	R						
169.8	170.2	0.4	CBSH	IJ					
170.2	170.44	0.24	R						
HUD11-05									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	15.2	15.2	DRIFT	DRIFT	556429.4	6147619.5	1319.34	171	yes

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
15.2	16.45	1.25	R						
16.45	16.75	0.3	CBSH						
16.75	18	1.25	R						
18	18.4	0.4	CBSH						
18.4	23.8	5.4	R						
23.8	24	0.2	CBSH						
24	31.3	7.3	R						
31.3	32.7	1.4	C	B					
32.7	32.9	0.2	DC	B					
32.9	33.1	0.2	C	B					
33.1	33.4	0.3	CR						
33.4	33.6	0.2	CBSH						
33.6	35.3	1.7	R						
35.3	35.6	0.3	CBSH						
35.6	36.7	1.1	R						
36.7	37	0.3	CBSH						
37	54.9	17.9	R						
54.9	55.3	0.4	CBSH						
55.3	55.7	0.4	R						
55.7	56.05	0.35	CBSH	CU					
56.05	58.5	2.45	R						
58.5	59.1	0.6	CR						
59.1	59.8	0.7	C	C					
59.8	59.95	0.15	DC	C					
59.95	60.5	0.55	CBSH						
60.5	62	1.5	R						
62	62.45	0.45	CBSH	DU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
62.45	63.25	0.8	R						
63.25	63.85	0.6	CBSH						
63.85	64.05	0.2	DC	DR					
64.05	65.45	1.4	C	D					
65.45	65.65	0.2	DC	D					
65.65	66	0.35	CBSH						
66	66.95	0.95	R						
66.95	67.5	0.55	CBSH						
67.5	67.85	0.35	CR						
67.85	68.4	0.55	R						
68.4	68.9	0.5	CBSH						
68.9	69.3	0.4	R						
69.3	69.5	0.2	CBSH						
69.5	69.9	0.4	CR						
69.9	70.8	0.9	R						
70.8	71.6	0.8	CBSH						
71.6	72.85	1.25	R						
72.85	73.25	0.4	CR	DE					
73.25	78.45	5.2	R						
78.45	78.6	0.15	CBSH						
78.6	79.3	0.7	C	EU					
79.3	79.4	0.1	CR						
79.4	79.9	0.5	CBSH						
79.9	80.5	0.6	R						
80.5	81.05	0.55	CBSH						
81.05	81.4	0.35	R						
81.4	81.95	0.55	DC	E					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
81.95	82.25	0.3	C	E					
82.25	82.4	0.15	DC	E					
82.4	83.35	0.95	C	E					
83.35	84.3	0.95	R						
84.3	85.05	0.75	CR						
85.05	85.45	0.4	R						
85.45	85.75	0.3	CR						
85.75	86.05	0.3	CBSH						
86.05	86.3	0.25	CR						
86.3	86.7	0.4	CBSH						
86.7	86.85	0.15	R						
86.85	87.05	0.2	CBSH						
87.05	87.4	0.35	DC	FU					
87.4	87.6	0.2	CR						
87.6	87.9	0.3	CBSH						
87.9	89.9	2	R						
89.9	90.1	0.2	CBSH						
90.1	90.7	0.6	C	F					
90.7	91.1	0.4	DC	F					
91.1	92.2	1.1	C	F					
92.2	94.35	2.15	R						
94.35	94.6	0.25	IRST						
94.6	94.8	0.2	ASH						
94.8	101.6	6.8	R						
101.6	101.8	0.2	CBSH	FG					
101.8	107.6	5.8	R						
107.6	108	0.4	DC	GU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
108	108.5	0.5	R						
108.5	108.8	0.3	CBSH						
108.8	109	0.2	DC	GM					
109	109.4	0.4	C	GL					
109.4	109.7	0.3	CBSH						
109.7	112.15	2.45	R						
112.15	112.4	0.25	CR	H					
112.4	113.1	0.7	CBSH	H					
113.1	113.7	0.6	R						
113.7	113.9	0.2	CR	I					
113.9	114.25	0.35	DC	I					
114.25	119.7	5.45	R						
119.7	119.9	0.2	ASH						
119.9	120	0.1	R						
120	120.4	0.4	CBSH						
120.4	120.8	0.4	R						
120.8	121.1	0.3	DC	IJ					
121.1	121.5	0.4	CR	IJ					
121.5	121.85	0.35	C	IJ					
121.85	122.15	0.3	DC	IJ					
122.15	131.9	9.75	R						
131.9	132.4	0.5	CBSH						
132.4	138.3	5.9	R						
138.3	139.15	0.85	C	J					
139.15	139.3	0.15	DC	J					
139.3	139.45	0.15	ASH						
139.45	141.75	2.3	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
141.75	142.1	0.35	CBSH						
142.1	142.7	0.6	R						
142.7	143.75	1.05	CBSH						
143.75	144.3	0.55	R						
144.3	145.1	0.8	CBSH						
145.1	163.8	18.7	R						
163.8	164.1	0.3	CBSH						
164.1	164.6	0.5	CR						
164.6	165.05	0.45	CBSH						
165.05	166.8	1.75	R						
166.8	167.1	0.3	CBSH						
167.1	167.4	0.3	R						
167.4	167.7	0.3	CBSH						
167.7	169.45	1.75	R						
HUD11-06									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	3.8	3.8	DRIFT	DRIFT	555554.41	6148210.3	1187.06	66	yes
3.8	17.65	13.85	R						
17.65	17.8	0.15	CBSH						
17.8	19.7	1.9	C	B					
19.7	20.2	0.5	DC	B					
20.2	20.4	0.2	FAULT	POSSIBLE					
20.4	20.45	0.05	CBSH						
20.45	20.75	0.3	R						
20.75	20.95	0.2	CBSH						
20.95	21.2	0.25	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
21.2	21.45	0.25	CBSH						
21.45	22.35	0.9	CR	CT					
22.35	22.5	0.15	FAULT	POSSIBLE					
22.5	22.7	0.2	CBSH						
22.7	22.85	0.15	CR						
22.85	22.95	0.1	R						
22.95	23.15	0.2	CR						
23.15	23.65	0.5	CBSH						
23.65	24.4	0.75	CR	CT					
24.4	24.7	0.3	C	CU					
24.7	24.8	0.1	DC	CU					
24.8	25	0.2	CBSH						
25	25.35	0.35	ASH						
25.35	25.6	0.25	DC	C					
25.6	25.75	0.15	C	C					
25.75	25.9	0.15	DC	C					
25.9	26.6	0.7	C	C					
26.6	26.8	0.2	CR	C					
26.8	27.05	0.25	DC	C					
27.05	27.25	0.2	CR						
27.25	27.5	0.25	ASH						
27.5	27.7	0.2	CBSH						
27.7	28.5	0.8	CR						
28.5	29.8	1.3	C	DU					
29.8	30	0.2	DC	DU					
30	30.15	0.15	CR	DU					
30.15	30.65	0.5	DC	DU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
30.65	30.85	0.2	CBSH						
30.85	31.05	0.2	ASH						
31.05	31.7	0.65	CBSH						
31.7	31.9	0.2	CR	DR					
31.9	32.25	0.35	CBSH						
32.25	34.8	2.55	R						
34.8	34.95	0.15	CBSH						
34.95	36.1	1.15	R						
36.1	36.6	0.5	CBSH	D					
36.6	36.95	0.35	R						
36.95	37.2	0.25	CBSH						
37.2	37.65	0.45	R						
37.65	38	0.35	CBSH	DE					
38	40	2	R						
40	40.35	0.35	IRST						
40.35	48.95	8.6	R						
48.95	49.3	0.35	CBSH						
49.3	51.2	1.9	R						
51.2	51.6	0.4	CBSH	EU					
51.6	51.9	0.3	R						
51.9	52	0.1	ASH						
52	52.4	0.4	CBSH						
52.4	52.6	0.2	CR						
52.6	53	0.4	C						
53	53.4	0.4	DC						
53.4	54.45	1.05	C						
54.45	54.7	0.25	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
54.7	59.36	4.66	R						
HUD11-07									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	25.6	25.6	DRIFT	DRIFT	555851.18	6148185.77	1190.4	243.84	yes
25.6	26.05	0.45	R	Green Marker					
26.05	35.6	9.55	R	Bullmoose					
35.6	35.7	0.1	FAULT	POSSIBLE					
35.7	39.9	4.2	R	Bullmoose					
39.9	40.1	0.2	CBSH	Bullmoose					
40.1	40.6	0.5	R	Bullmoose					
40.6	40.7	0.1	ASH	Bullmoose					
40.7	41.8	1.1	R	Bullmoose					
41.8	41.9	0.1	ASH	Bullmoose					
41.9	42	0.1	R	Bullmoose					
42	43.15	1.15	R	Bluesky					
43.15	45.1	1.95	R						
45.1	45.35	0.25	CR						
45.35	45.6	0.25	DC	A					
45.6	46	0.4	R						
46	46.4	0.4	CBSH						
46.4	46.6	0.2	R						
46.6	46.8	0.2	CBSH						
46.8	56.1	9.3	R						
56.1	56.6	0.5	CBSH						
56.6	57.7	1.1	R						
57.7	58.1	0.4	IRST						
58.1	74.4	16.3	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
74.4	74.5	0.1	FAULT	POSSIBLE					
74.5	75.7	1.2	C	B					
75.7	76.1	0.4	DC	B					
76.1	76.4	0.3	C	B					
76.4	76.6	0.2	DC	B					
76.6	76.8	0.2	CR						
76.8	77	0.2	CBSH						
77	77.1	0.1	R						
77.1	77.25	0.15	FAULT	POSSIBLE					
77.25	77.75	0.5	R						
77.75	78.15	0.4	CBSH						
78.15	78.9	0.75	CR	CT					
78.9	79.1	0.2	DC	CU					
79.1	79.65	0.55	C	CU					
79.65	79.95	0.3	R						
79.95	80.15	0.2	CR						
80.15	81.05	0.9	C	C					
81.05	81.25	0.2	DC	C					
81.25	81.35	0.1	CR						
81.35	82.1	0.75	CBSH						
82.1	82.35	0.25	R						
82.35	82.7	0.35	CBSH						
82.7	82.85	0.15	FAULT	POSSIBLE					
82.85	83.3	0.45	CR						
83.3	83.35	0.05	FAULT	POSSIBLE					
83.35	83.6	0.25	DC	DU					
83.6	84.65	1.05	C	DU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
84.65	85.1	0.45	DC	DU					
85.1	85.45	0.35	C	DU					
85.45	85.7	0.25	CR						
85.7	85.75	0.05	ASH						
85.75	86.45	0.7	CBSH						
86.45	86.6	0.15	CBSH	DR					
86.6	86.7	0.1	CR	DR					
86.7	87.05	0.35	CBSH	DR					
87.05	87.75	0.7	R						
87.75	88.1	0.35	CBSH						
88.1	88.75	0.65	R						
88.75	89.15	0.4	CBSH	D					
89.15	92.5	3.35	R						
92.5	92.55	0.05	CBSH	DE					
92.55	92.65	0.1	FAULT	POSSIBLE					
92.65	92.9	0.25	CBSH	DE					
92.9	112.4	19.5	R						
112.4	112.55	0.15	CBSH						
112.55	113.1	0.55	CR	EU					
113.1	113.3	0.2	CBSH						
113.3	114	0.7	R						
114	115.25	1.25	C	E					
115.25	115.45	0.2	CBSH						
115.45	116.6	1.15	R						
116.6	116.75	0.15	IRST						
116.75	116.85	0.1	R						
116.85	117	0.15	IRST						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
117	125.85	8.85	R						
125.85	126.25	0.4	CBSH	EF					
126.25	126.4	0.15	R						
126.4	126.6	0.2	IRST						
126.6	126.75	0.15	R						
126.75	127	0.25	CBSH						
127	128.8	1.8	R						
128.8	129.2	0.4	CBSH						
129.2	131.6	2.4	R						
131.6	131.8	0.2	CBSH						
131.8	131.9	0.1	CR	FU					
131.9	132.05	0.15	CBSH	FU					
132.05	132.2	0.15	CR	FU					
132.2	132.3	0.1	FAULT	PROBABLE					
132.3	133.3	1	R						
133.3	133.6	0.3	C	EU					
133.6	133.8	0.2	CBSH						
133.8	134.15	0.35	R						
134.15	135.85	1.7	C	E					
135.85	144.4	8.55	R						
144.4	144.8	0.4	CBSH	EF					
144.8	146.85	2.05	R						
146.85	147.3	0.45	CBSH	FU					
147.3	147.7	0.4	R						
147.7	148	0.3	CBSH						
148	148.45	0.45	CR						
148.45	148.95	0.5	DC	F					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
148.95	150.2	1.25	C	F					
150.2	150.6	0.4	DC	F					
150.6	150.8	0.2	CR						
150.8	150.9	0.1	CBSH						
150.9	151.2	0.3	FAULT	PROBABLE					
151.2	151.45	0.25	DC	FU					
151.45	151.9	0.45	CBSH						
151.9	152	0.1	R						
152	152.4	0.4	CR						
152.4	153	0.6	C	F					
153	153.4	0.4	DC	F					
153.4	155.3	1.9	C	F					
155.3	155.31	0.01	FOLD	Normal/Inverted					
155.31	156.9	1.59	C	F					
156.9	157	0.1	DC	F					
157	157.35	0.35	C	F					
157.35	157.65	0.3	DC	F					
157.65	157.85	0.2	CR	F					
157.85	158.2	0.35	DC	F					
158.2	158.55	0.35	FAULT	PROBABLE					
158.55	158.65	0.1	CR	Begins as Normal					
158.65	158.75	0.1	CBSH						
158.75	161.3	2.55	R						
161.3	162	0.7	CBSH	FU					
162	162.1	0.1	R	FU					
162.1	162.45	0.35	CBSH	FU					
162.45	167	4.55	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
167	167.2	0.2	CBSH						
167.2	170.8	3.6	C	F					
170.8	171	0.2	CBSH						
171	171.25	0.25	R						
171.25	171.55	0.3	CBSH						
171.55	173.1	1.55	R						
173.1	173.2	0.1	ASH						
173.2	179.2	6	R						
179.2	179.4	0.2	CBSH						
179.4	179.65	0.25	DC	GU					
179.65	179.95	0.3	C	GU					
179.95	180.4	0.45	DC	GM					
180.4	180.6	0.2	C	GM					
180.6	180.85	0.25	DC	GL					
180.85	181.1	0.25	C	GL					
181.1	181.3	0.2	CBSH						
181.3	183.95	2.65	R						
183.95	184.4	0.45	CBSH	H					
184.4	187.4	3	R						
187.4	187.9	0.5	C	I					
187.9	188	0.1	FAULT	POSSIBLE					
188	201.8	13.8	R						
201.8	201.95	0.15	FAULT	POSSIBLE					
201.95	202.25	0.3	CR	IJ					
202.25	202.35	0.1	CBSH						
202.35	206.1	3.75	R						
206.1	206.5	0.4	IRST						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
206.5	213.1	6.6	R						
213.1	213.25	0.15	ASH						
213.25	215	1.75	R						
215	215.4	0.4	CBSH						
215.4	219.25	3.85	R						
219.25	219.65	0.4	CBSH						
219.65	223.5	3.85	R						
223.5	223.7	0.2	CBSH						
223.7	223.9	0.2	C	J					
223.9	224.5	0.6	DC	J					
224.5	224.65	0.15	C	J					
224.65	224.85	0.2	DC	J					
224.85	225.7	0.85	R						
225.7	226	0.3	CBSH						
226	242.58	16.58	R						
HUD11-07C									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	18.95	18.95	DRIFT	DRIFT	555871.18	6148185.77	1190.4	160.02	yes
18.95	21.65	2.7	R	Cowmoose					
21.65	25	3.35	R	Green Marker					
25	39.3	14.3	R	Bullmoose					
39.3	39.7	0.4	CBSH	Bullmoose					
39.7	41.4	1.7	R	Bullmoose					
41.4	41.45	0.05	ASH	Bullmoose					
41.45	42.05	0.6	R	Bullmoose					
42.05	42.55	0.5	R	Bluesky					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
42.55	44.45	1.9	R						
44.45	44.8	0.35	DC	A					
44.8	44.95	0.15	CBSH						
44.95	45.2	0.25	R						
45.2	45.55	0.35	CBSH						
45.55	56.35	10.8	R						
56.35	56.65	0.3	CBSH						
56.65	73	16.35	R						
73	73.45	0.45	CBSH						
73.45	73.55	0.1	DC	B					
73.55	74.85	1.3	C	B					
74.85	75	0.15	DC	B					
75	75.25	0.25	C	B					
75.25	75.6	0.35	DC	B					
75.6	75.85	0.25	R						
75.85	76.05	0.2	FAULT	POSSIBLE					
76.05	76.15	0.1	R						
76.15	76.6	0.45	CBSH						
76.6	77.2	0.6	DC	CT					
77.2	77.6	0.4	CR						
77.6	78	0.4	C	CU					
78	78.45	0.45	R						
78.45	79.8	1.35	C	C					
79.8	80.15	0.35	R						
80.15	80.45	0.3	CR						
80.45	80.75	0.3	R						
80.75	81.55	0.8	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
81.55	81.75	0.2	CR						
81.75	81.8	0.05	FAULT	POSSIBLE					
81.8	82	0.2	R						
82	83.5	1.5	C	DU					
83.5	83.7	0.2	R						
83.7	83.75	0.05	ASH						
83.75	84.65	0.9	CBSH						
84.65	84.9	0.25	CR	DR					
84.9	85.3	0.4	CBSH						
85.3	86.65	1.35	R						
86.65	87.4	0.75	CBSH	D					
87.4	90.1	2.7	R						
90.1	90.45	0.35	CR	DE					
90.45	109.45	19	R						
109.45	109.8	0.35	DC	EU					
109.8	110.4	0.6	CBSH						
110.4	111.05	0.65	R						
111.05	112.35	1.3	C	E					
112.35	118.9	6.55	R						
118.9	119.2	0.3	CBSH						
119.2	122.35	3.15	R						
122.35	122.8	0.45	CR	EF					
122.8	127.85	5.05	R						
127.85	128.15	0.3	CBSH						
128.15	128.45	0.3	CR	FU					
128.45	128.65	0.2	CBSH						
128.65	130.15	1.5	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
130.15	130.6	0.45	C	F					
130.6	130.95	0.35	DC	F					
130.95	133.5	2.55	C	F					
133.5	134.05	0.55	R	F					
134.05	139.15	5.1	C	F					
139.15	139.45	0.3	FAULT	PROBABLE					
139.45	140	0.55	DC	F					
140	143.3	3.3	C	F					
143.3	144.15	0.85	CR	F					
144.15	144.65	0.5	DC	F					
144.65	146.95	2.3	C	F					
146.95	147.25	0.3	DC	F					
147.25	147.5	0.25	CBSH						
147.5	153.3	5.8	R						
153.3	153.5	0.2	FAULT	POSSIBLE					
153.5	153.8	0.3	R						
153.8	153.9	0.1	CBSH						
153.9	155.1	1.2	DC	FU					
155.1	155.4	0.3	C						
155.4	155.5	0.1	FAULT	PROBABLE					
155.5	155.8	0.3	R						
155.8	156.6	0.8	CBSH						
156.6	157.5	0.9	CR						
157.5	157.8	0.3	DC	FU					
157.8	158	0.2	CR	FU					
158	158.25	0.25	CBSH	FU					
158.25	158.75	0.5	DC	FU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
158.75	159.44	0.69	R						
HUD11-08									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	19.3	19.15	DRIFT	DRIFT	555854.23	6148187.48	1191.95	216.46	yes
19.3	22.1	2.8	R	Cowmoose					
22.1	25.5	3.4	R	Green Marker					
25.5	39.1	13.6	R	Bullmoose					
39.1	39.35	0.25	CBSH	Bullmoose					
39.35	39.85	0.5	R	Bullmoose					
39.85	40.45	0.6	R	Bluesky					
40.45	41.65	1.2	R						
41.65	42.2	0.55	DC	A					
42.2	42.55	0.35	CBSH						
42.55	72.65	30.1	R						
72.65	72.9	0.25	CBSH						
72.9	74.1	1.2	C	B					
74.1	74.55	0.45	DC	B					
74.55	74.95	0.4	C	B					
74.95	75.05	0.1	CR						
75.05	75.9	0.85	CBSH						
75.9	76.8	0.9	R						
76.8	76.85	0.05	FAULT	PROBABLE					
76.85	77.1	0.25	CBSH						
77.1	77.95	0.85	R						
77.95	78.5	0.55	CBSH						
78.5	79	0.5	CR	CT					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
79	79.1	0.1	DC	CT					
79.1	79.3	0.2	CR	CT					
79.3	79.9	0.6	CBSH						
79.7	79.95	0.25	DC	CU					
79.95	80.4	0.45	C	CU					
80.4	80.65	0.25	CBSH						
80.65	80.8	0.15	R						
80.8	80.9	0.1	CBSH						
80.9	82.2	1.3	C	C					
82.2	82.5	0.3	DC	C					
82.5	83.25	0.75	CBSH						
83.25	83.6	0.35	R						
83.6	83.95	0.35	CBSH						
83.95	84.4	0.45	CR						
84.4	84.7	0.3	R						
84.7	84.8	0.1	FAULT	POSSIBLE					
84.8	84.9	0.1	CR						
84.9	85.1	0.2	DC	DU					
85.1	87.3	2.2	C	DU					
87.3	87.55	0.25	DC	DU					
87.55	89.2	1.65	CBSH						
89.2	90.7	1.5	R						
90.7	91.05	0.35	CBSH	DR					
91.05	94.3	3.25	R						
94.3	94.7	0.4	CBSH	D					
94.7	97.5	2.8	R						
97.5	97.6	0.1	FAULT	POSSIBLE					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
97.6	99.3	1.7	R						
99.3	99.5	0.2	CBSH	DE					
99.5	121.4	21.9	R						
121.4	121.8	0.4	CR	EU					
121.8	122.4	0.6	CBSH						
122.4	123.05	0.65	R						
123.05	123.3	0.25	CR						
123.3	124.65	1.35	C	E					
124.65	124.85	0.2	CBSH						
124.85	125.4	0.55	R						
125.4	125.8	0.4	IRST						
125.8	130.4	4.6	R						
130.4	130.9	0.5	CBSH	EF					
130.9	134.4	3.5	R						
134.4	134.5	0.1	FAULT	POSSIBLE					
134.5	134.75	0.25	CBSH	EF					
134.75	139.9	5.15	R						
139.9	140.1	0.2	CBSH	FU					
140.1	140.2	0.1	CR	FU					
140.2	140.5	0.3	CBSH	FU					
140.5	141.5	1	R						
141.5	141.7	0.2	CBSH						
141.7	142.1	0.4	C	F					
142.1	142.5	0.4	DC	F					
142.5	144.2	1.7	C	F					
144.2	144.3	0.1	CBSH						
144.3	145.9	1.6	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
145.9	146.3	0.4	CBSH						
146.3	153.95	7.65	R						
153.95	154.25	0.3	DC	GU					
154.25	154.45	0.2	C	GU					
154.45	154.6	0.15	DC	GU					
154.6	155.1	0.5	CR						
155.1	155.45	0.35	DC	GM					
155.45	155.7	0.25	C	GL					
155.7	156	0.3	DC	GL					
156	159.1	3.1	R						
159.1	159.45	0.35	CBSH	H					
159.45	161.85	2.4	R						
161.85	162.7	0.85	C	I					
162.7	167.8	5.1	R						
167.8	168.15	0.35	CBSH						
168.15	172.7	4.55	R						
172.7	173.2	0.5	CR	IJ					
173.2	173.45	0.25	CBSH						
173.45	174.25	0.8	R						
174.25	174.3	0.05	FAULT	POSSIBLE					
174.3	184.25	9.95	R						
184.25	184.65	0.4	CBSH						
184.65	185.85	1.2	R						
185.85	186.7	0.85	CBSH						
186.7	188.7	2	R						
188.7	188.85	0.15	FAULT	POSSIBLE					
188.85	190.1	1.25	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
190.1	190.4	0.3	CBSH						
190.4	193.4	3	R						
193.4	194.1	0.7	C	J					
194.1	196.45	2.35	R						
196.45	196.9	0.45	CBSH						
196.9	205.45	8.55	R						
205.45	205.5	0.05	FAULT	POSSIBLE					
205.5	205.6	0.1	R						
205.6	205.9	0.3	CR	JK					
205.9	206.05	0.15	CBSH						
206.05	212.35	6.3	R						
HUD12-01									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	17.7	17.7	DRIFT	DRIFT	556020.76	6147382.28	1292.96	234.69	yes
17.7	28.95	11.25	R	Cowmoose					
28.95	29.4	0.45	R	Green Marker					
29.4	47.85	18.45	R	Bullmoose					
47.85	48	0.15	ASH	Bullmoose					
48	67.8	19.8	R	Bullmoose					
67.8	68.1	0.3	FAULT	PROBABLE					
68.1	72.45	4.35	R	Bullmoose					
72.45	72.5	0.05	FAULT	POSSIBLE					
72.5	89.85	17.35	R	Bullmoose					
89.85	96.2	6.35	R	Bluesky					
96.2	114.5	18.3	R						
114.5	114.75	0.25	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
114.75	116.2	1.45	R						
116.2	116.75	0.55	CBSH	A					
116.75	116.9	0.15	FAULT	POSSIBLE					
116.9	117.1	0.2	CBSH	A					
117.1	126	8.9	R						
126	126.2	0.2	CBSH						
126.2	153.9	27.7	R						
153.9	156.65	2.75	C	B					
156.65	156.9	0.25	DC	B					
156.9	157.1	0.2	CBSH						
157.1	157.3	0.2	R						
157.3	157.5	0.2	CBSH						
157.5	157.6	0.1	CR						
157.6	157.7	0.1	CBSH						
157.7	157.9	0.2	CR						
157.9	158.1	0.2	DC	CU					
158.1	158.35	0.25	C	CU					
158.35	158.5	0.15	DC	CU					
158.5	158.9	0.4	CBSH						
158.9	160	1.1	C	C					
160	160.1	0.1	FAULT	POSSIBLE					
160.1	160.3	0.2	DC	C					
160.3	160.4	0.1	CR						
160.4	160.6	0.2	CBSH						
160.6	160.8	0.2	R						
160.8	161.45	0.65	CBSH						
161.45	161.7	0.25	CR						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
161.7	162.05	0.35	CBSH						
162.05	162.4	0.35	R						
162.4	164.55	2.15	C	D					
164.55	165.05	0.5	R						
165.05	165.3	0.25	CBSH						
165.3	165.5	0.2	DC	DE					
165.5	165.8	0.3	D	DE					
165.8	166.25	0.45	CBSH						
166.25	169.65	3.4	R						
169.65	169.85	0.2	CBSH						
169.85	171.95	2.1	R						
171.95	172.4	0.45	CBSH						
172.4	175	2.6	R						
175	175.3	0.3	CBSH						
175.3	205.9	30.6	R						
205.9	206.3	0.4	DC	EU					
206.3	207.2	0.9	R						
207.2	207.7	0.5	CBSH						
207.7	208.35	0.65	R						
208.35	209.7	1.35	CBSH						
209.7	211.8	2.1	C	E					
211.8	212.15	0.35	R						
212.15	212.4	0.25	CBSH						
212.4	212.9	0.5	R						
212.9	213	0.1	CR						
213	213.05	0.05	FAULT	POSSIBLE					
213.05	213.3	0.25	C	E					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
213.3	213.6	0.3	DC	E					
213.6	214.05	0.45	R						
214.05	214.85	0.8	CR						
214.85	215.15	0.3	CBSH						
215.15	215.3	0.15	CR						
215.3	215.55	0.25	DC	FU					
215.55	215.8	0.25	C	FU					
215.8	216	0.2	DC	FU					
216	216.3	0.3	CR						
216.3	219	2.7	R						
219	219.2	0.2	CBSH						
219.2	220.1	0.9	C	F					
220.1	221.6	1.5	C	F					
221.6	222.1	0.5	CBSH						
222.1	222.3	0.2	CR						
222.3	222.5	0.2	FAULT	POSSIBLE					
222.5	223.3	0.8	C	F					
223.3	223.45	0.15	DC	F					
223.45	223.65	0.2	CBSH						
223.65	223.85	0.2	R						
223.85	224.05	0.2	CBSH						
224.05	225.1	1.05	R						
225.1	225.7	0.6	CBSH						
225.7	227.4	1.7	R						
227.4	227.9	0.5	CBSH						
227.9	229.85	1.95	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
HUD12-06									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	9.05	9.05	DRIFT	DRIFT	556472.89	6148092.22	1291.30	240.79	yes
9.05	10.2	1.15	R	Bluesky					
10.2	12.7	2.5	R						
12.7	13	0.3	C	A					
13	13.45	0.45	DC	A					
13.45	14.75	1.3	C	A					
14.75	15.15	0.4	CR	A					
15.15	15.4	0.25	C	A					
15.4	15.7	0.3	DC	A					
15.7	17.85	2.15	R						
17.85	18.15	0.3	CBSH						
18.15	24.8	6.65	R						
24.8	25.05	0.25	CBSH						
25.05	33.8	8.75	R						
33.8	34.75	0.95	IRST						
34.75	47.55	12.8	R						
47.55	47.6	0.05	FAULT	POSSIBLE					
47.6	66.05	18.45	R						
66.05	66.2	0.15	CBSH						
66.2	66.8	0.6	R						
66.8	67.2	0.4	DC						
67.2	71.2	4	R						
71.2	71.55	0.35	C						
71.55	71.9	0.35	CBSH						
71.9	72.3	0.4	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
72.3	76.3	4	C	B					
76.3	76.5	0.2	DC	B					
76.5	76.6	0.1	CR	B					
76.6	77.05	0.45	DC	B					
77.05	77.7	0.65	CBSH						
77.7	78.5	0.8	R						
78.5	78.75	0.25	CBSH						
78.75	79.5	0.75	R						
79.5	79.7	0.2	CBSH						
79.7	80.9	1.2	R						
80.9	81.15	0.25	CBSH						
81.15	81.7	0.55	R						
81.7	82.1	0.4	CR						
82.1	84.7	2.6	R						
84.7	84.9	0.2	CBSH						
84.9	85.3	0.4	R						
85.3	85.4	0.1	FAULT	POSSIBLE					
85.4	85.6	0.2	R						
85.6	85.8	0.2	CBSH						
85.8	87.45	1.65	R						
87.45	87.7	0.25	CBSH						
87.7	89.4	1.7	R						
89.4	89.7	0.3	CBSH						
89.7	90.7	1	R						
90.7	90.85	0.15	CBSH						
90.85	91.25	0.4	DC						
91.25	92.1	0.85	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
92.1	92.35	0.25	CBSH						
92.35	92.8	0.45	CR						
92.8	93	0.2	R						
93	93.01	0.01	FOLD	Normal/Inverted					
93.01	93.6	0.59	R						
93.6	94	0.4	CR						
94	94.4	0.4	CBSH						
94.4	94.65	0.25	CR						
94.65	95.35	0.7	CBSH						
95.35	95.75	0.4	DC						
95.75	95.95	0.2	R						
95.95	96.35	0.4	IRST						
96.35	96.6	0.25	R						
96.6	96.9	0.3	CBSH						
96.9	97.55	0.65	R						
97.55	97.8	0.25	CBSH						
97.8	98.1	0.3	CR						
98.1	98.35	0.25	CBSH						
98.35	98.8	0.45	R						
98.8	99.05	0.25	DC	B					
99.05	99.4	0.35	C	B					
99.4	99.5	0.1	FAULT	POSSIBLE					
99.5	101.05	1.55	C	B					
101.05	101.1	0.05	FAULT	POSSIBLE					
101.1	102.8	1.7	C	B					
102.8	103.4	0.6	DC	B					
103.4	103.6	0.2	FAULT	POSSIBLE					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
103.6	104.3	0.7	DC	B					
104.3	104.6	0.3	CR						
104.6	105.8	1.2	R						
105.8	106.1	0.3	IRST						
106.1	108.35	2.25	R						
108.35	108.8	0.45	CBSH						
108.8	109.9	1.1	R						
109.9	110.1	0.2	CBSH						
110.1	111	0.9	R						
111	111.3	0.3	CBSH						
111.3	116.2	4.9	R						
116.2	116.55	0.35	IRST						
116.55	124.4	7.85	R						
124.4	124.6	0.2	CBSH						
124.6	125.2	0.6	CR						
125.2	125.5	0.3	CBSH						
125.5	127.4	1.9	R						
127.4	127.65	0.25	CBSH						
127.65	128.25	0.6	CR						
128.25	129.05	0.8	CBSH						
129.05	133.3	4.25	R						
133.3	133.55	0.25	CR						
133.55	133.8	0.25	FAULT	PROBABLE					
133.8	134.2	0.4	R						
134.2	135.05	0.85	C	A					
135.05	135.7	0.65	DC	A					
135.7	136	0.3	CR						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
136	143.4	7.4	R						
143.4	144.9	1.5	R	Bluesky?					
144.9	232	87.1	R	Bullmoose					
232	232.3	0.3	CR	Bullmoose					
232.3	234	1.7	R	Bullmoose					
234	234.35	0.35	CR	Bullmoose					
234.35	239.24	4.89	R	Bullmoose					
HUD12-08									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	10.6	10.6	DRIFT	DRIFT	556595.16	6148235.57	1279.57	213.36	yes
10.6	11.55	0.95	R	Bullmoose					
11.55	11.7	0.15	IRST	Bullmoose					
11.7	25.6	13.9	R	Bullmoose					
25.6	26	0.4	R	Bluesky					
26	27.4	1.4	R						
27.4	27.75	0.35	DC	A					
27.75	28.15	0.4	CR	A					
28.15	29.05	0.9	C	A					
29.05	29.7	0.65	CBSH						
29.7	34.7	5	R						
34.7	34.8	0.1	CBSH						
34.8	41.4	6.6	R						
41.4	41.7	0.3	CBSH						
41.7	46.9	5.2	R						
46.9	47	0.1	IRST						
47	62.4	15.4	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
62.4	62.85	0.45	CBSH						
62.85	73.8	10.95	R						
73.8	74.1	0.3	CBSH						
74.1	74.3	0.2	CR						
74.3	74.65	0.35	C	B					
74.65	74.9	0.25	DC	B					
74.9	75.05	0.15	CR	B					
75.05	75.35	0.3	C	B					
75.35	78.7	3.35	R						
78.7	79.15	0.45	CBSH						
79.15	87.45	8.3	R						
87.45	87.75	0.3	CR	CU					
87.75	88.05	0.3	R						
88.05	88.3	0.25	C	C					
88.3	88.8	0.5	DC	C					
88.8	89.2	0.4	CBSH						
89.2	91.2	2	R						
91.2	92.05	0.85	CBSH						
92.05	93.2	1.15	R						
93.2	93.6	0.4	C	D					
93.6	93.75	0.15	DC	D					
93.75	94.3	0.55	C	D					
94.3	94.8	0.5	CBSH						
94.8	94.9	0.1	R						
94.9	95.15	0.25	IRST						
95.15	101.1	5.95	R						
101.1	101.35	0.25	DC	EU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
101.35	102.3	0.95	C	EU					
102.3	102.65	0.35	R						
102.65	103.15	0.5	CBSH						
103.15	103.55	0.4	R						
103.55	103.85	0.3	C	E					
103.85	104.2	0.35	DC	E					
104.2	104.5	0.3	C	E					
104.5	119.7	15.2	R						
119.7	120.15	0.45	IRST						
120.15	121.4	1.25	R						
121.4	121.9	0.5	CBSH						
121.9	122.95	1.05	R						
122.95	123.25	0.3	CBSH						
123.25	134.85	11.6	R						
134.85	135.2	0.35	C	FU					
135.2	135.4	0.2	DC	FU					
135.4	135.65	0.25	CBSH						
135.65	136.3	0.65	R						
136.3	136.6	0.3	CBSH						
136.6	138.55	1.95	R						
138.55	139	0.45	C	F					
139	139.35	0.35	DC	F					
139.35	140.3	0.95	C	F					
140.3	142.2	1.9	R						
142.2	143.05	0.85	CBSH						
143.05	147.45	4.4	R						
147.45	147.8	0.35	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
147.8	155.9	8.1	R						
155.9	156.05	0.15	IRST						
156.05	175.7	19.65	R						
175.7	176.1	0.4	IRST						
176.1	180.4	4.3	R						
180.4	181	0.6	CBSH						
181	181.25	0.25	R						
181.25	182	0.75	CBSH						
182	182.4	0.4	CR	FG					
182.4	186.8	4.4	R						
186.8	187	0.2	DC	GU					
187	187.8	0.8	C	GU					
187.8	188.15	0.35	DC	GM					
188.15	188.7	0.55	C	GM					
188.7	191.5	2.8	R						
191.5	191.9	0.4	DC	GL					
191.9	192.4	0.5	CBSH						
192.4	192.7	0.3	DC	H					
192.7	192.9	0.2	CR						
192.9	193.3	0.4	DC	HL					
193.3	196.6	3.3	R						
196.6	197.3	0.7	C	I					
197.3	205.7	8.4	R						
205.7	205.9	0.2	IRST						
205.9	211.52	5.62	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
HUD12-09									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	39.9	39.9	DRIFT	DRIFT	556810.65	6147865.62	1298.99	210	yes
39.9	46.5	6.6	R						
46.5	46.9	0.4	CBSH						
46.9	47.5	0.6	R						
47.5	47.8	0.3	CBSH						
47.8	48.3	0.5	R						
48.3	48.6	0.3	CBSH						
48.6	49.4	0.8	R						
49.4	49.6	0.2	CBSH						
49.6	50.5	0.9	R						
50.5	50.85	0.35	CBSH						
50.85	54.1	3.25	R						
54.1	54.55	0.45	CBSH						
54.55	55.2	0.65	R						
55.2	55.4	0.2	CBSH						
55.4	57.3	1.9	R						
57.3	58.05	0.75	CBSH						
58.05	59.1	1.05	R						
59.1	59.4	0.3	CBSH						
59.4	59.85	0.45	R						
59.85	60.25	0.4	CBSH						
60.25	60.7	0.45	R						
60.7	61	0.3	CBSH						
61	61.6	0.6	R						
61.6	61.9	0.3	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
61.9	62.3	0.4	R						
62.3	62.45	0.15	CR						
62.45	62.9	0.45	DC	DE					
62.9	63.25	0.35	CR						
63.25	70.1	6.85	R						
70.1	70.6	0.5	CBSH						
70.6	77.7	7.1	R						
77.7	78	0.3	CBSH						
78	78.1	0.1	DC	EU					
78.1	80.2	2.1	C	EU					
80.2	80.4	0.2	DC	E					
80.4	81.85	1.45	C	E					
81.85	82	0.15	DC	E					
82	82.2	0.2	CR						
82.2	82.6	0.4	CBSH						
82.6	83.05	0.45	CR						
83.05	83.35	0.3	CBSH						
83.35	85.2	1.85	R						
85.2	85.45	0.25	CBSH						
85.45	85.65	0.2	CR						
85.65	86.2	0.55	DC						
86.2	86.55	0.35	CR						
86.55	86.7	0.15	CBSH						
86.7	97.8	11.1	R						
97.8	98.05	0.25	CBSH						
98.05	104.6	6.55	R						
104.6	104.75	0.15	FAULT	PROBABLE					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
104.75	105.2	0.45	CR						
105.2	106.15	0.95	DC	FU					
106.15	106.5	0.35	C	FU					
106.5	106.8	0.3	DC	FU					
106.8	111.1	4.3	R						
111.1	111.11	0.01	FOLD	Normal/Inverted					
111.11	112.7	1.59	R						
112.7	112.95	0.25	CBSH						
112.95	116.95	4	C	FU					
116.95	117.3	0.35	DC	FU					
117.3	117.8	0.5	CR	FU					
117.8	118.6	0.8	DC	FU					
118.6	119	0.4	CR						
119	119.15	0.15	FAULT	POSSIBLE					
119.15	119.5	0.35	CBSH						
119.5	119.85	0.35	CR						
119.85	120.15	0.3	DC	F					
120.15	132.2	12.05	C	F					
132.2	132.7	0.5	DC	F					
132.7	132.9	0.2	C	F					
132.9	133	0.1	DC	F					
133	133.45	0.45	C	FU					
133.45	133.55	0.1	FAULT	POSSIBLE					
133.55	138.35	4.8	C	F					
138.35	138.7	0.35	DC	F					
138.7	140.85	2.15	C	FU					
140.85	140.9	0.05	FAULT	POSSIBLE					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
140.9	144.25	3.35	C	F					
144.25	145.45	1.2	DC	F					
145.45	145.8	0.35	FAULT	POSSIBLE					
145.8	147.1	1.3	C	F					
147.1	147.25	0.15	DC	F					
147.25	147.5	0.25	C	F					
147.5	148.6	1.1	DC	F					
148.6	149.7	1.1	C	FU					
149.7	150	0.3	DC	FU					
150	150.5	0.5	CR						
150.5	150.65	0.15	FAULT	POSSIBLE					
150.65	151.1	0.45	CBSH						
151.1	162.2	11.1	R						
162.2	162.6	0.4	DC	FG					
162.6	162.85	0.25	CR	FG					
162.85	163.15	0.3	R						
163.15	163.3	0.15	CBSH						
163.3	163.8	0.5	R						
163.8	163.9	0.1	FAULT	POSSIBLE					
163.9	165.3	1.4	R						
165.3	165.65	0.35	CBSH						
165.65	166	0.35	CR	FG					
166	166.3	0.3	DC	FG					
166.3	166.55	0.25	CR	FG					
166.55	167.9	1.35	R						
167.9	168.2	0.3	CBSH						
168.2	168.95	0.75	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
168.95	170.05	1.1	CBSH						
170.05	170.35	0.3	DC	GU					
170.35	171.75	1.4	C	GU					
171.75	172.65	0.9	C	GM					
172.65	173.05	0.4	C	GL					
173.05	182.6	9.55	R						
182.6	182.7	0.1	FAULT	POSSIBLE					
182.7	189.4	6.7	R						
189.4	190.4	1	CBSH						
190.4	190.7	0.3	CR						
190.7	191	0.3	DC	GU					
191	193.3	2.3	C	GU					
193.3	193.55	0.25	R						
193.55	193.9	0.35	IRST						
193.9	194.55	0.65	R						
194.55	196.3	1.75	C	GM					
196.3	197.05	0.75	CBSH						
197.05	197.85	0.8	R						
197.85	198.4	0.55	CBSH						
198.4	200.45	2.05	R						
200.45	200.6	0.15	CBSH						
200.6	200.9	0.3	DC	GL					
200.9	201.15	0.25	C	GL					
201.15	201.4	0.25	CBSH						
201.4	206.04	4.64	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
HUD12-11									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	11.4	11.4	DRIFT	DRIFT	556556.22	6147500.80	1275.18	241	yes
11.4	18.2	6.8	R						
18.2	18.45	0.25	CBSH						
18.45	21.35	2.9	R						
21.35	21.6	0.25	CBSH	CU					
21.6	26.25	4.65	R						
26.25	27.2	0.95	CR						
27.2	27.5	0.3	C	C					
27.5	27.75	0.25	DC	C					
27.75	28	0.25	CBSH						
28	31.8	3.8	R						
31.8	32	0.2	CBSH	DU					
32	32.3	0.3	R						
32.3	32.95	0.65	CBSH						
32.95	33.2	0.25	CR	DR					
33.2	35.1	1.9	C	D					
35.1	35.4	0.3	CBSH						
35.4	36.5	1.1	R						
36.5	36.65	0.15	CBSH						
36.65	36.9	0.25	CR						
36.9	37.25	0.35	CBSH						
37.25	37.75	0.5	R						
37.75	38.7	0.95	CBSH						
38.7	40.4	1.7	R						
40.4	40.75	0.35	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
40.75	41.4	0.65	R						
41.4	41.8	0.4	CBSH						
41.8	43.8	2	R						
43.8	44.2	0.4	CR	DE					
44.2	46.05	1.85	R						
46.05	47	0.95	C	EU					
47	48.8	1.8	R						
48.8	49.05	0.25	DC						
49.05	49.25	0.2	CBSH						
49.25	49.55	0.3	R						
49.55	49.85	0.3	CBSH						
49.85	50.1	0.25	C	E					
50.1	50.4	0.3	DC	E					
50.4	51.9	1.5	C	E					
51.9	52.1	0.2	R						
52.1	52.25	0.15	FAULT	POSSIBLE					
52.25	52.7	0.45	R						
52.7	53.2	0.5	CR						
53.2	53.6	0.4	CBSH						
53.6	53.85	0.25	CR						
53.85	54.2	0.35	CBSH						
54.2	54.35	0.15	DC						
54.35	54.7	0.35	CR						
54.7	54.95	0.25	CBSH						
54.95	55.1	0.15	CR	FU					
55.1	55.3	0.2	DC	FU					
55.3	55.5	0.2	CR	FU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
55.5	56.05	0.55	CBSH						
56.05	57.95	1.9	R						
57.95	59.15	1.2	C	F					
59.15	59.25	0.1	DC	F					
59.25	59.45	0.2	C	F					
59.45	59.55	0.1	DC	F					
59.55	60.25	0.7	C	F					
60.25	60.5	0.25	CBSH						
60.5	69.55	9.05	R						
69.55	69.6	0.05	CBSH	FG					
69.6	75.6	6	R						
75.6	75.9	0.3	CBSH	GU					
75.9	76.35	0.45	R						
76.35	76.45	0.1	CR	GM					
76.45	76.65	0.2	DC	GM					
76.65	76.8	0.15	C	GM					
76.8	76.9	0.1	DC	GL					
76.9	77.25	0.35	C	GL					
77.25	77.35	0.1	CBSH						
77.35	79.7	2.35	R						
79.7	79.75	0.05	CBSH	H					
79.75	94.2	14.45	R						
94.2	94.4	0.2	IRST						
94.4	98.8	4.4	R						
98.8	99.05	0.25	CBSH	I					
99.05	99.8	0.75	R						
99.8	99.9	0.1	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
99.9	100.3	0.4	DC	IJ					
100.3	100.5	0.2	C	IJ					
100.5	100.9	0.4	CBSH						
100.9	117.9	17	R						
117.9	118.5	0.6	C	J					
118.5	118.7	0.2	DC	J					
118.7	118.9	0.2	CBSH						
118.9	119.4	0.5	R						
119.4	119.8	0.4	CR						
119.8	120.1	0.3	R						
120.1	120.4	0.3	CBSH						
120.4	121	0.6	R						
121	121.15	0.15	CBSH						
121.15	122	0.85	R						
122	122.45	0.45	CBSH						
122.45	122.95	0.5	R						
122.95	123.3	0.35	CBSH						
123.3	127.85	4.55	R						
127.85	128.25	0.4	CBSH						
128.25	138.5	10.25	R						
138.5	138.95	0.45	CR	JK					
138.95	139.7	0.75	R						
139.7	139.9	0.2	CBSH						
139.9	140.5	0.6	R						
140.5	140.75	0.25	CBSH						
140.75	141	0.25	R						
141	141.2	0.2	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
141.2	145.9	4.7	R						
145.9	146.1	0.2	CR						
146.1	146.5	0.4	CBSH						
146.5	146.85	0.35	C	K					
146.85	147.2	0.35	CBSH						
147.2	147.6	0.4	R						
147.6	148.05	0.45	CBSH						
148.05	159.8	11.75	R						
159.8	160.1	0.3	CBSH						
160.1	168	7.9	R						
168	168.4	0.4	CBSH						
168.4	168.55	0.15	FAULT	PROBABLE					
168.55	174.15	5.6	R						
174.15	174.45	0.3	CBSH						
174.45	174.7	0.25	R						
174.7	174.95	0.25	CBSH						
174.95	196.7	21.75	R						
196.7	196.95	0.25	CBSH						
196.95	234.1	37.15	R						
234.1	234.8	0.7	CBSH						
234.8	240.79	5.99	ND						
HUD12-12									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	8.5	8.5	DRIFT	DRIFT	555993.80	6148351.07	1240.79	184	yes
8.5	23.7	15.2	R						
23.7	24.3	0.6	C	FU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
24.3	24.65	0.35	CBSH						
24.65	25	0.35	FAULT	POSSIBLE					
25	26	1	R						
26	26.3	0.3	CBSH						
26.3	28.1	1.8	R						
28.1	30.7	2.6	C	F					
30.7	30.95	0.25	DC	F					
30.95	31.25	0.3	C	F					
31.25	31.4	0.15	DC	F					
31.4	34.9	3.5	C	F					
34.9	35.4	0.5	CR						
35.4	35.95	0.55	R						
35.95	36.6	0.65	CBSH						
36.6	36.9	0.3	CR						
36.9	39.25	2.35	R						
39.25	39.85	0.6	CBSH						
39.85	41.1	1.25	R						
41.1	41.3	0.2	FAULT	POSSIBLE					
41.3	60.2	18.9	R						
60.2	61.15	0.95	CBSH						
61.15	62.75	1.6	R						
62.75	64	1.25	CBSH	FG					
64	65.15	1.15	R						
65.15	65.5	0.35	CBSH						
65.5	73.35	7.85	R						
73.35	73.9	0.55	DC	GU					
73.9	74.3	0.4	CBSH	GU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
74.3	75.7	1.4	C	GU					
75.7	76.3	0.6	CBSH						
76.3	76.7	0.4	C						
76.7	77.05	0.35	R						
77.05	77.4	0.35	DC	GM					
77.4	78.2	0.8	C	GM					
78.2	78.85	0.65	C	GL					
78.85	79.3	0.45	CR						
79.3	106.2	26.9	R						
106.2	106.5	0.3	CBSH						
106.5	106.75	0.25	CR	H					
106.75	107.55	0.8	R						
107.55	107.7	0.15	FAULT	POSSIBLE					
107.7	114.15	6.45	R						
114.15	114.5	0.35	FAULT	POSSIBLE					
114.5	115.7	1.2	R						
115.7	116.05	0.35	CBSH						
116.05	123	6.95	R						
123	123.2	0.2	CBSH						
123.2	124.6	1.4	R						
124.6	124.75	0.15	FAULT	POSSIBLE					
124.75	124.9	0.15	CBSH						
124.9	154.2	29.3	R						
154.2	154.65	0.45	CBSH	I					
154.65	160.45	5.8	R						
160.45	160.8	0.35	CBSH						
160.8	183.54	22.74	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
HUD12-13									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	9.65	9.65	DRIFT	DRIFT	555992.61	6148348.66	1235.37	259	yes
9.65	10.7	1.05	R						
10.7	10.85	0.15	CBSH						
10.85	11.1	0.25	DC	GU					
11.1	11.4	0.3	C	GU					
11.4	11.8	0.4	CBSH						
11.8	12	0.2	DC	GM					
12	12.3	0.3	DC	GL					
12.3	12.6	0.3	C	GL					
12.6	20.9	8.3	R						
20.9	21.5	0.6	C	H					
21.5	21.8	0.3	CR						
21.8	22.1	0.3	R						
22.1	22.7	0.6	CBSH						
22.7	23.15	0.45	R						
23.15	23.7	0.55	CBSH						
23.7	28.3	4.6	R						
28.3	28.6	0.3	CBSH						
28.6	33.7	5.1	R						
33.7	34.1	0.4	DC	I					
34.1	39	4.9	R						
39	39.2	0.2	CBSH						
39.2	40.8	1.6	R						
40.8	41.15	0.35	CBSH						
41.15	43.3	2.15	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
43.3	43.65	0.35	CBSH						
43.65	76	32.35	R						
76	76.25	0.25	CR						
76.25	76.5	0.25	DC	IJ					
76.5	76.7	0.2	CR						
76.7	82.5	5.8	R						
82.5	82.51	0.01	FOLD	Normal/Inverted					
82.51	91.15	8.64	R						
91.15	91.4	0.25	CBSH						
91.4	91.65	0.25	FAULT	POSSIBLE					
91.65	91.9	0.25	CR						
91.9	92.4	0.5	DC	IJ					
92.4	92.7	0.3	CR						
92.7	93.8	1.1	R						
93.8	94.1	0.3	CBSH						
94.1	100.5	6.4	R						
100.5	100.7	0.2	CBSH						
100.7	101.1	0.4	R						
101.1	101.35	0.25	CBSH						
101.35	102.55	1.2	R						
102.55	102.9	0.35	CBSH						
102.9	104.8	1.9	R						
104.8	105.5	0.7	CBSH						
105.5	107.9	2.4	R						
107.9	108.4	0.5	CBSH						
108.4	108.6	0.2	CR						
108.6	109.3	0.7	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
109.3	109.6	0.3	CBSH						
109.6	110.25	0.65	R						
110.25	110.6	0.35	CBSH						
110.6	111	0.4	DC	I					
111	111.2	0.2	CR						
111.2	111.55	0.35	CBSH						
111.55	116.2	4.65	R						
116.2	116.3	0.1	IRST						
116.3	119.55	3.25	R						
119.55	119.7	0.15	IRST						
119.7	125.8	6.1	R						
125.8	126.2	0.4	CSBH						
126.2	126.75	0.55	CR						
126.75	130.05	3.3	R						
130.05	130.35	0.3	CBSH						
130.35	133.4	3.05	R						
133.4	134.1	0.7	CBSH						
134.1	134.5	0.4	CR						
134.5	135.7	1.2	R						
135.7	136.5	0.8	CBSH						
136.5	137	0.5	R						
137	137.5	0.5	CBSH						
137.5	138.3	0.8	R						
138.3	138.6	0.3	IRST						
138.6	139.7	1.1	R						
139.7	140	0.3	CBSH						
140	140.55	0.55	C	H					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
140.55	143.8	3.25	R						
143.8	143.95	0.15	CBSH						
143.95	144.2	0.25	CR						
144.2	144.5	0.3	CBSH						
144.5	153.1	8.6	R						
153.1	153.95	0.85	C	GL					
153.95	154.6	0.65	DC	GM					
154.6	154.85	0.25	CBSH						
154.85	155.7	0.85	C	GU					
155.7	156	0.3	DC	GU					
156	156.4	0.4	CR						
156.4	159.5	3.1	R						
159.5	159.85	0.35	CBSH						
159.85	170.7	10.85	R						
170.7	171	0.3	CBSH						
171	171.4	0.4	R						
171.4	171.55	0.15	ASH						
171.55	172.8	1.25	R						
172.8	173.2	0.4	CBSH						
173.2	173.65	0.45	R						
173.65	173.8	0.15	DC	F					
173.8	175.2	1.4	C	F					
175.2	175.3	0.1	FAULT	POSSIBLE					
175.3	175.45	0.15	C	F					
175.45	175.6	0.15	DC	F					
175.6	176.3	0.7	C	F					
176.3	176.65	0.35	DC	F					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
176.65	177.2	0.55	C	F					
177.2	177.3	0.1	CR						
177.3	178.2	0.9	R						
178.2	178.6	0.4	CR	FU					
178.6	179	0.4	CBSH						
179	183.4	4.4	R						
183.4	183.8	0.4	CBSH						
183.8	184.75	0.95	R						
184.75	184.95	0.2	FAULT	PROBABLE					
184.95	185.25	0.3	CR						
185.25	185.8	0.55	CBSH						
185.8	186.4	0.6	R						
186.4	187.2	0.8	CBSH						
187.2	189	1.8	R						
189	189.2	0.2	CBSH						
189.2	189.7	0.5	R						
189.7	191	1.3	C	F					
191	191.1	0.1	FAULT	POSSIBLE					
191.1	191.3	0.2	C	F					
191.3	191.4	0.1	DC	F					
191.4	192.4	1	C	F					
192.4	192.5	0.1	DC	F					
192.5	193	0.5	C	F					
193	193.25	0.25	CR						
193.25	194.35	1.1	R						
194.35	194.8	0.45	CR	FU					
194.8	195.2	0.4	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
195.2	201.1	5.9	R						
201.1	201.3	0.2	CR						
201.3	201.5	0.2	CBSH						
201.5	208.03	6.53	R						
HUD12-15									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	5.1	5.1	DRIFT	DRIFT	556244.41	6148195.49	1299.05	195	yes
5.1	5.45	0.35	DC	D					
5.45	5.65	0.2	CR	D					
5.65	5.95	0.3	DC	D					
5.95	6.15	0.2	CR	D					
6.15	6.35	0.2	C	D					
6.35	6.5	0.15	DC	D					
6.5	6.8	0.3	C	D					
6.8	6.9	0.1	DC	D					
6.9	7.7	0.8	C	D					
7.7	9.6	1.9	R						
9.6	9.85	0.25	CR						
9.85	10.1	0.25	CBSH						
10.1	10.95	0.85	R						
10.95	11.15	0.2	CBSH						
11.15	11.8	0.65	R						
11.8	12.15	0.35	CBSH						
12.15	12.5	0.35	R						
12.5	12.8	0.3	CR						
12.8	13.75	0.95	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
13.75	14.7	0.95	R						
14.7	14.9	0.2	CBSH						
14.9	15.2	0.3	DC	DE					
15.2	15.6	0.4	CBSH	DE					
15.6	16.05	0.45	DC	DE					
16.05	16.3	0.25	CBSH						
16.3	16.75	0.45	R						
16.75	16.8	0.05	FAULT	POSSIBLE					
16.8	37.5	20.7	R						
37.5	37.75	0.25	DC						
37.75	37.9	0.15	FAULT	POSSIBLE					
37.9	39.35	1.45	R						
39.35	40.2	0.85	CBSH						
40.2	41.2	1	R						
41.2	41.6	0.4	C	EU					
41.6	41.75	0.15	DC	E					
41.75	41.9	0.15	C	E					
41.9	42	0.1	DC	E					
42	43.1	1.1	C	E					
43.1	45.2	2.1	R						
45.2	46.3	1.1	CBSH						
46.3	46.7	0.4	R						
46.7	47	0.3	CBSH						
47	47.3	0.3	R						
47.3	47.6	0.3	DC						
47.6	48.5	0.9	CBSH						
48.5	58.1	9.6	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
58.1	58.55	0.45	CBSH						
58.55	58.9	0.35	CR	FU					
58.9	59.65	0.75	R						
59.65	61	1.35	C	F					
61	61.15	0.15	FAULT	POSSIBLE					
61.15	62.3	1.15	C	F					
62.3	62.6	0.3	R						
62.6	62.8	0.2	CBSH						
62.8	63.85	1.05	R						
63.85	64	0.15	ASH						
64	64.25	0.25	R						
64.25	64.55	0.3	CBSH						
64.55	68.1	3.55	R						
68.1	68.5	0.4	CBSH						
68.5	70.45	1.95	R						
70.45	70.8	0.35	CBSH						
70.8	71.1	0.3	C	GU					
71.1	71.85	0.75	CR						
71.85	72	0.15	C	GM					
72	72.35	0.35	C	GL					
72.35	83.7	11.35	R						
83.7	84.2	0.5	CBSH						
84.2	85.85	1.65	R						
85.85	86.65	0.8	C	H					
86.65	87.85	1.2	R						
87.85	88.2	0.35	CBSH						
88.2	88.85	0.65	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
88.85	89.25	0.4	CBSH						
89.25	91.45	2.2	R						
91.45	91.7	0.25	CBSH						
91.7	92.3	0.6	CR						
92.3	92.5	0.2	CBSH						
92.5	94.2	1.7	R						
94.2	94.45	0.25	CBSH						
94.45	95.95	1.5	R						
95.95	96.6	0.65	DC	I					
96.6	99.3	2.7	R						
99.3	99.55	0.25	CBSH						
99.55	100.5	0.95	R						
100.5	100.8	0.3	CBSH						
100.8	101.3	0.5	R						
101.3	101.55	0.25	CBSH						
101.55	102.9	1.35	R						
102.9	103.45	0.55	CR						
103.45	105.1	1.65	R						
105.1	105.3	0.2	CBSH						
105.3	105.7	0.4	CR						
105.7	115.45	9.75	R						
115.45	115.8	0.35	CR						
115.8	116.9	1.1	R						
116.9	117.2	0.3	CBSH						
117.2	136.8	19.6	R						
136.8	137.4	0.6	CBSH						
137.4	137.85	0.45	DC	IJ					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
137.85	137.95	0.1	FAULT	POSSIBLE					
137.95	157.5	19.55	R						
157.5	157.51	0.01	FOLD	Normal/Inverted					
157.51	163.6	6.09	R						
163.6	164.1	0.5	DC	IJ					
164.1	164.3	0.2	CBSH						
164.3	177.95	13.65	R						
177.95	178.65	0.7	CBSH						
178.65	186.75	8.1	R						
186.75	187.05	0.3	CR						
187.05	190.15	3.1	R						
190.15	190.5	0.35	DC	I					
190.5	190.7	0.2	CBSH	I					
190.7	191	0.3	DC	I					
191	191.2	0.2	CBSH						
191.2	193.05	1.85	R						
HUD12-17									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	5.9	5.9	DRIFT	DRIFT	556352.74	6148351.25	1277.60	97.53	yes
5.9	11.4		R	Cowmoose					
11.4	11.6	0.2	IRST	Cowmoose					
11.6	37.7	26.1	R	Cowmoose					
37.7	41.7	4	R	Green Marker					
41.7	58.7	17	R	Bullmoose					
58.7	58.9	0.2	FAULT	POSSIBLE					
58.9	62.5	3.6	R	Bullmoose					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
62.5	66.15	3.65	R	Bluesky					
66.15	67.9	1.75	R						
67.9	68.1	0.2	DC	A					
68.1	69.9	1.8	C	A					
69.9	70.3	0.4	CR						
70.3	70.6	0.3	CBSH						
70.6	70.75	0.15	CR						
70.75	71	0.25	CBSH						
71	79.1	8.1	R						
79.1	79.3	0.2	CBSH						
79.3	79.9	0.6	R						
79.9	80.2	0.3	CBSH						
80.2	88.95	8.75	R						
88.95	89.6	0.65	CBSH						
89.6	92.34	2.74	R						
HUD12-19									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	5.5	5.5	DRIFT	DRIFT	556347.50	6148344.64	1277.42	251.46	yes
5.5	21.3	15.8	R	Cowmoose					
21.3	21.9	0.6	R	Green Marker					
21.9	36.6	14.7	R	Bullmoose					
36.6	38.2	1.6	R	Bluesky					
38.2	38.8	0.6	R						
38.8	40	1.2	C	A					
40	40.15	0.15	CR						
40.15	40.3	0.15	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
40.3	40.6	0.3	CR						
40.6	46.1	5.5	R						
46.1	46.3	0.2	CBSH						
46.3	59.75	13.45	R						
59.75	59.9	0.15	CBSH						
59.9	60.65	0.75	C	B					
60.65	61	0.35	DC	B					
61	61.35	0.35	C	B					
61.35	82.05	20.7	R						
82.05	82.35	0.3	CBSH						
82.35	84.1	1.75	R						
84.1	84.5	0.4	CR	CU					
84.5	84.85	0.35	CBSH						
84.85	85.6	0.75	C	C					
85.6	85.95	0.35	CR						
85.95	86.45	0.5	R						
86.45	87.1	0.65	CBSH						
87.1	87.4	0.3	R						
87.4	87.85	0.45	CR						
87.85	88.75	0.9	R						
88.75	89.1	0.35	CR						
89.1	90.5	1.4	C	D					
90.5	99.8	9.3	R						
99.8	100.15	0.35	CBSH						
100.15	100.25	0.1	FAULT	POSSIBLE					
100.25	100.45	0.2	CBSH						
100.45	101.4	0.95	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
101.4	101.85	0.45	CR	DE					
101.85	123.5	21.65	R						
123.5	123.9	0.4	CR	EU					
123.9	124.6	0.7	CBSH						
124.6	124.95	0.35	R						
124.95	125.3	0.35	CBSH						
125.3	125.85	0.55	R						
125.85	127.5	1.65	C	E					
127.5	132.4	4.9	R						
132.4	133	0.6	CBSH						
133	134.6	1.6	R						
134.6	135.2	0.6	CBSH						
135.2	135.4	0.2	R						
135.4	135.45	0.05	FAULT	POSSIBLE					
135.45	135.9	0.45	R						
135.9	136.3	0.4	CR						
136.3	137.2	0.9	CBSH						
137.2	141.1	3.9	R						
141.1	141.45	0.35	CBSH						
141.45	142	0.55	R						
142	142.75	0.75	CBSH						
142.75	144.75	2	R						
144.75	145.5	0.75	C	FU					
145.5	147.2	1.7	C	F					
147.2	148.4	1.2	C	F					
148.4	148.85	0.45	CBSH						
148.85	149.2	0.35	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
149.2	149.8	0.6	CBSH						
149.8	155.55	5.75	R						
155.55	155.8	0.25	CBSH						
155.8	156.1	0.3	CR	FG					
156.1	160.7	4.6	R						
160.7	160.95	0.25	CBSH						
160.95	161.3	0.35	R						
161.3	162.1	0.8	C	GU					
162.1	162.5	0.4	CBSH						
162.5	162.95	0.45	C	GM					
162.95	163.05	0.1	DC	GL					
163.05	163.4	0.35	C	GL					
163.4	163.55	0.15	CBSH						
163.55	166.2	2.65	R						
166.2	166.5	0.3	CBSH						
166.5	168	1.5	R						
168	168.2	0.2	CBSH						
168.2	179.85	11.65	R						
179.85	180.4	0.55	CBSH						
180.4	180.6	0.2	R						
180.6	180.85	0.25	CBSH						
180.85	181.25	0.4	CR						
181.25	181.65	0.4	CBSH						
181.65	184.35	2.7	R						
184.35	184.6	0.25	DC	H					
184.6	185.5	0.9	C	H					
185.5	186.3	0.8	DC	H					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
186.3	186.45	0.15	CR						
186.45	186.65	0.2	DC	HL					
186.65	186.9	0.25	CBSH						
186.9	187.05	0.15	R						
187.05	187.7	0.65	CBSH						
187.7	188.1	0.4	CR						
188.1	188.25	0.15	CBSH						
188.25	188.6	0.35	R						
188.6	188.61	0.01	FOLD	Normal/Inverted					
188.61	188.85	0.24	R						
188.85	189.2	0.35	CR						
189.2	189.9	0.7	CBSH						
188.9	188.95	0.05	FAULT	POSSIBLE					
188.95	193.3	3.35	R	Begins as Normal					
193.3	193.6	0.3	CBSH						
193.6	194.15	0.55	DC	I					
194.15	194.4	0.25	CBSH						
194.4	194.8	0.4	R						
194.8	195.25	0.45	CBSH						
195.25	196.3	1.05	R						
196.3	196.55	0.25	CBSH						
196.55	196.9	0.35	R						
196.9	197.2	0.3	CBSH						
197.2	197.45	0.25	CR						
197.45	197.6	0.15	CBSH						
197.6	197.95	0.35	R						
197.95	198.3	0.35	DC	IJ					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
198.3	198.7	0.4	R						
198.7	199.6	0.9	CBSH						
199.6	203.2	3.6	R						
203.2	203.55	0.35	CBSH						
203.55	204.1	0.55	R						
204.1	205.05	0.95	CBSH						
205.05	207.55	2.5	R						
207.55	208	0.45	DC	J					
208	210.7	2.7	C	J					
210.7	210.85	0.15	CR						
210.85	211.35	0.5	R						
211.35	211.8	0.45	CBSH						
211.8	219.15	7.35	R						
219.15	220.2	1.05	CBSH						
220.2	221.15	0.95	R						
221.15	221.55	0.4	CBSH						
221.55	227	5.45	R						
227	227.3	0.3	IRST						
227.3	228.95	1.65	R						
228.95	229.35	0.4	CBSH						
229.35	229.5	0.15	R						
229.5	229.7	0.2	IRST						
229.7	232	2.3	R						
232	232.5	0.5	CBSH						
232.5	236.7	4.2	R						
236.7	237.05	0.35	CBSH						
237.05	238.95	1.9	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
238.95	239.3	0.35	CBSH						
239.3	241.3	2	R						
241.3	241.5	0.2	DC	KR					
241.5	242.4	0.9	C	KR					
242.4	242.9	0.5	R						
242.9	243.1	0.2	DC	KU					
243.1	244.9	1.8	C	KU					
244.9	245.25	0.35	DC	KM					
245.25	246.3	1.05	C	KM					
246.3	246.7	0.4	R						
246.7	247.35	0.65	CR						
247.35	248.35	1	CBSH						
248.35	248.6	0.25	R						
248.6	248.9	0.3	CBSH						
248.9	251.46	2.56	R						
HUD12-21									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	37.4	37.4	DRIFT	DRIFT	556804.52	6147858.59	1299.37	160.06	yes
37.4	38.1	0.7	R						
38.1	38.45	0.35	CBSH						
38.45	41.65	3.2	R						
41.65	41.8	0.15	CBSH						
41.8	42	0.2	C	F					
42	42.7	0.7	DC	F					
42.7	43.45	0.75	C	F					
43.45	44	0.55	DC	F					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
44	44.1	0.1	FAULT	POSSIBLE					
44.1	44.2	0.1	C	F					
44.2	44.35	0.15	DC	F					
44.35	44.5	0.15	C	F					
44.5	44.8	0.3	DC	F					
44.8	47.3	2.5	C	F					
47.3	49.4	2.1	R						
49.4	49.8	0.4	DC	GU					
49.8	50.05	0.25	CR						
50.05	50.3	0.25	DC	GM					
50.3	50.6	0.3	CR						
50.6	51.6	1	CBSH						
51.6	52	0.4	CR	GL					
52	52.2	0.2	CBSH						
52.2	56.8	4.6	R						
56.8	57.15	0.35	CBSH						
57.15	60.5	3.35	R						
60.5	60.8	0.3	CBSH						
60.8	61.55	0.75	R						
61.55	61.8	0.25	CBSH						
61.8	64.1	2.3	R						
64.1	64.3	0.2	CBSH						
64.3	72.85	8.55	R						
72.85	72.86	0.01	FOLD	Normal/Inverted					
72.86	90.2	17.34	R						
90.2	90.7	0.5	CR	GL					
90.7	91.05	0.35	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
91.05	91.6	0.55	CR	GM					
91.6	91.8	0.2	CBSH						
91.8	92.1	0.3	CR	GU					
92.1	95.9	3.8	R						
95.9	96.2	0.3	CBSH	FG					
96.2	100.65	4.45	R						
100.65	101.3	0.65	C	F					
101.3	101.75	0.45	DC	F					
101.75	102.3	0.55	C	F					
102.3	102.6	0.3	FAULT	POSSIBLE					
102.6	103.2	0.6	C	F					
103.2	103.35	0.15	FAULT	POSSIBLE					
103.35	106.05	2.7	C	F					
106.05	106.7	0.65	CBSH						
106.7	107.7	1	R						
107.7	108.1	0.4	CBSH						
108.1	110.5	2.4	R						
110.5	110.8	0.3	CBSH						
110.8	112.5	1.7	R						
112.5	112.7	0.2	CBSH						
112.7	112.85	0.15	CR	FU					
112.85	113	0.15	FAULT	POSSIBLE					
113	113.2	0.2	CBSH	Begins as Normal					
113.2	117.1	3.9	R						
117.1	117.6	0.5	DC	F					
117.6	119	1.4	C	F					
119	119.4	0.4	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
119.4	124.55	5.15	R						
124.55	125	0.45	CR	FG					
125	129	4	R						
129	129.35	0.35	DC	GU					
129.35	129.75	0.4	R						
129.75	130.1	0.35	C	GM					
130.1	130.3	0.2	DC	GL					
130.3	130.6	0.3	C	GL					
130.6	146.54	15.94	R						
HUD12-21C									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	37.85	37.85	DRIFT	DRIFT	556804.47	6147858.81	1299.62	116	yes
37.85	38.1	0.25	R						
38.1	38.55	0.45	CR						
38.55	39.2	0.65	R						
39.2	39.6	0.4	DC	FU					
39.6	40.95	1.35	R						
40.95	41.1	0.15	CBSH						
41.1	41.3	0.2	CR						
41.3	42.9	1.6	R						
42.9	43.5	0.6	C	F					
43.5	43.9	0.4	CR	F					
43.9	45.2	1.3	C	F					
45.2	45.45	0.25	DC	F					
45.45	46.8	1.35	C	F					
46.8	47.1	0.3	DC	F					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
47.1	48.7	1.6	C	F					
48.7	49.2	0.5	DC	F					
49.2	49.9	0.7	R						
49.9	50.2	0.3	CBSH						
50.2	52.15	1.95	R						
52.15	52.3	0.15	CBSH						
52.3	52.4	0.1	CR						
52.4	52.9	0.5	DC	GU					
52.9	53.15	0.25	CR						
53.15	53.6	0.45	DC	GM					
53.6	54.1	0.5	CBSH						
54.1	54.2	0.1	R						
54.2	54.7	0.5	CBSH						
54.7	55.25	0.55	CR	GL					
55.25	57.2	1.95	R						
57.2	57.4	0.2	CBSH						
57.4	62.1	4.7	R						
62.1	62.4	0.3	CBSH						
62.4	63.15	0.75	R						
63.15	63.8	0.65	CBSH						
63.8	64.4	0.6	R						
64.4	64.85	0.45	CBSH						
64.85	65.55	0.7	R						
65.55	65.7	0.15	CBSH						
65.7	80.3	14.6	R						
80.3	80.31	0.01	FOLD	Normal/Inverted					
80.31	97.4	17.09	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
97.4	97.7	0.3	CR	GL					
97.7	97.9	0.2	CBSH						
97.9	98.15	0.25	R						
98.15	98.55	0.4	CR	GM					
98.55	98.85	0.3	R						
98.85	99.1	0.25	CBSH						
99.1	99.45	0.35	CR	GU					
99.45	101.6	2.15	R						
101.6	101.95	0.35	CBSH	FG					
101.95	104.7	2.75	R						
104.7	105.05	0.35	C	F					
105.05	105.2	0.15	DC	F					
105.2	105.95	0.75	C	F					
105.95	106.15	0.2	FAULT	PROBABLE					
106.15	112.1	5.95	C	F					
112.1	112.3	0.2	DC	F					
112.3	112.5	0.2	CR						
112.5	113.1	0.6	CBSH						
113.1	113.4	0.3	CR						
113.4	114.8	1.4	CBSH						
114.8	115.15	0.35	CR	FU					
115.15	115.9	0.75	R						
HUD12-22									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	5.6	5.6	DRIFT	DRIFT	556810.57	6148567.99	1289.63	244	yes
5.6	35.5	29.9	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
35.5	35.7	0.2	CBSH						
35.7	36.9	1.2	C	B					
36.9	37.8	0.9	R						
37.8	38.3	0.5	DC						
38.3	48.45	10.15	R						
48.45	48.95	0.5	FAULT	PROBABLE					
48.95	49.15	0.2	R						
49.15	49.6	0.45	CBSH	C					
49.6	57.35	7.75	R						
57.35	57.8	0.45	CR	CU					
57.8	70.65	12.85	R						
70.65	71.1	0.45	CBSH	C					
71.1	94.3	23.2	R						
94.3	94.6	0.3	CBSH	DR					
94.6	95.5	0.9	R						
95.5	96	0.5	CBSH	D					
96	110.35	14.35	R						
110.35	110.7	0.35	CBSH	EU					
110.7	122.6	11.9	R						
122.6	123.1	0.5	CBSH	E					
123.1	132.65	9.55	R						
132.65	133.05	0.4	DC	FU					
133.05	133.4	0.35	CBSH						
133.4	133.55	0.15	CR						
133.55	134	0.45	DC	F					
134	134.3	0.3	CR						
134.3	136.6	2.3	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
136.6	137.1	0.5	CBSH						
137.1	137.3	0.2	R						
137.3	137.5	0.2	CBSH						
137.5	144.05	6.55	R						
144.05	144.3	0.25	CBSH	FG					
144.3	149.5	5.2	R						
149.5	149.65	0.15	FAULT	POSSIBLE					
149.65	150.05	0.4	CBSH						
150.05	155.9	5.85	R						
155.9	156.2	0.3	CBSH	EU					
156.2	157.5	1.3	R						
157.5	158.15	0.65	CBSH						
158.15	158.5	0.35	CR						
158.5	158.8	0.3	DC	E					
158.8	170.65	11.85	R						
170.65	170.95	0.3	CR	FU					
170.95	177.2	6.25	R						
177.2	177.45	0.25	CBSH						
177.45	179.8	2.35	R						
179.8	180.1	0.3	CBSH						
180.1	185.7	5.6	R						
185.7	186.1	0.4	DC	F					
186.1	186.5	0.4	CR	F					
186.5	186.95	0.45	C	F					
186.95	187.1	0.15	DC	F					
187.1	187.4	0.3	CR						
187.4	188.15	0.75	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
188.15	188.35	0.2	FAULT	PROBABLE					
188.35	188.7	0.35	DC	F					
188.7	189	0.3	R						
189	189.25	0.25	CBSH						
189.25	189.55	0.3	R						
189.55	189.75	0.2	CR						
189.75	190.55	0.8	CBSH						
190.55	198.2	7.65	R						
198.2	198.4	0.2	CBSH	FG					
198.4	202.6	4.2	R						
202.6	203.1	0.5	CBSH	GU					
203.1	203.45	0.35	R						
203.45	203.75	0.3	CR	GM					
203.75	204.7	0.95	R						
204.7	205.05	0.35	CBSH	GL					
205.05	207.55	2.5	R						
207.55	207.85	0.3	CBSH	H					
207.85	213	5.15	R						
213	213.2	0.2	CBSH						
213.2	214.8	1.6	R						
214.8	215.05	0.25	CBSH						
215.05	215.25	0.2	R						
215.25	215.4	0.15	CBSH						
215.4	216.8	1.4	R						
216.8	217.25	0.45	CR	I					
217.25	217.5	0.25	CBSH						
217.5	218.1	0.6	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
218.1	218.8	0.7	CBSH						
218.8	219.1	0.3	R						
219.1	220	0.9	IRST						
220	226.3	6.3	R						
226.3	227.3	1	CBSH						
227.3	227.65	0.35	CR	IJ					
227.65	228	0.35	CBSH						
228	235.6	7.6	R						
235.6	236.15	0.55	CBSH						
236.15	240.19	4.04	R						
HUD12-23									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	6.25	6.25	DRIFT	DRIFT	556614.91	6148468.00	1279.37	238	yes
6.25	15.5	9.25	R						
15.5	16	0.5	CBSH						
16	28	12	R						
28	28.3	0.3	CR						
28.3	28.85	0.55	CBSH						
28.85	30.9	2.05	R						
30.9	31.3	0.4	DC	B					
31.3	31.55	0.25	CR	B					
31.55	31.9	0.35	C	B					
31.9	32.1	0.2	CBSH						
32.1	33.2	1.1	R						
33.2	33.6	0.4	CBSH						
33.6	33.8	0.2	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
33.8	34.85	1.05	CBSH						
34.85	36.2	1.35	R						
36.2	36.6	0.4	CBSH						
36.6	46	9.4	R						
46	46.3	0.3	CBSH						
46.3	48.4	2.1	R						
48.4	48.7	0.3	CR	CU					
48.7	49.2	0.5	R						
49.2	49.65	0.45	C	C					
49.65	50.3	0.65	R						
50.3	50.4	0.1	FAULT	PROBABLE					
50.4	50.6	0.2	CR	CU					
50.6	50.8	0.2	R						
50.8	51.05	0.25	DC	C					
51.05	55.65	4.6	R						
55.65	56.1	0.45	DC	D					
56.1	61.4	5.3	R						
61.4	61.5	0.1	FAULT	PROBABLE					
61.5	61.7	0.2	CBSH						
61.7	61.95	0.25	CR	D					
61.95	63.1	1.15	CBSH						
63.1	66.4	3.3	R						
66.4	66.75	0.35	CBSH	EU					
66.75	68.5	1.75	R						
68.5	69.15	0.65	CBSH						
69.15	69.5	0.35	DC	E					
69.5	70.6	1.1	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
70.6	71.1	0.5	CBSH						
71.1	75.7	4.6	R						
75.7	75.9	0.2	CBSH	FU					
75.9	76	0.1	CR	FU					
76	76.6	0.6	CBSH	FU					
76.6	78.7	2.1	R						
78.7	79.1	0.4	CBSH						
79.1	79.5	0.4	R						
79.5	79.9	0.4	CBSH						
79.9	80.65	0.75	C	F					
80.65	110	29.35	R						
110	110.5	0.5	CBSH						
110.5	111.8	1.3	R						
111.8	112.2	0.4	CBSH	FG					
112.2	112.3	0.1	R						
112.3	112.35	0.05	FAULT	PROBABLE					
112.35	119.1	6.75	R						
119.1	119.5	0.4	C	FU					
119.5	119.7	0.2	CR						
119.7	120.05	0.35	CBSH						
120.05	120.3	0.25	R						
120.3	120.65	0.35	CBSH						
120.65	123.6	2.95	R						
123.6	124	0.4	CBSH						
124	124.5	0.5	R						
124.5	125.2	0.7	DC	F					
125.2	125.8	0.6	C	F					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
125.8	127.35	1.55	R						
127.35	128.25	0.9	CBSH						
128.25	138.15	9.9	R						
138.15	138.25	0.1	CBSH						
138.25	140.4	2.15	R						
140.4	140.55	0.15	CBSH	FG					
140.55	154.75	14.2	R						
154.75	155.5	0.75	C	GU					
155.5	156.5	1	C	GM					
156.5	156.6	0.1	FAULT	POSSIBLE					
156.6	156.9	0.3	DC	GM					
156.9	157.1	0.2	CBSH						
157.1	157.5	0.4	R						
157.5	157.8	0.3	C	GL					
157.8	157.9	0.1	FAULT	POSSIBLE					
157.9	165.2	7.3	R						
165.2	165.55	0.35	CBSH	FU					
165.55	166.5	0.95	R						
166.5	166.8	0.3	CBSH						
166.8	167	0.2	R						
167	167.4	0.4	CBSH						
167.4	167.7	0.3	DC	F					
167.7	167.9	0.2	C	F					
167.9	168	0.1	DC	F					
168	168.3	0.3	C	F					
168.3	169.15	0.85	R						
169.15	169.5	0.35	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
169.5	190.1	20.6	R						
190.1	191.1	1	C	GU					
191.1	191.2	0.1	DC	GU					
191.2	191.4	0.2	R						
191.4	191.55	0.15	CR	GM					
191.55	191.7	0.15	FAULT	POSSIBLE					
191.7	191.75	0.05	CR	GM					
191.75	192	0.25	R						
192	192.2	0.2	CR	GL					
192.2	192.55	0.35	CBSH						
192.55	196.3	3.75	R						
196.3	196.75	0.45	DC	H					
196.75	200.05	3.3	R						
200.05	200.85	0.8	CBSH						
200.85	201.3	0.45	R						
201.3	201.65	0.35	DC	I					
201.65	216.8	15.15	R						
216.8	217.05	0.25	IRST						
217.05	219.3	2.25	R						
219.3	219.6	0.3	CBSH						
219.6	220.25	0.65	DC	J					
220.25	220.9	0.65	C	J					
220.9	221.5	0.6	R						
221.5	221.8	0.3	DC						
221.8	222.1	0.3	CBSH						
222.1	228	5.9	R						
228	228.3	0.3	CR	JK					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
228.3	232.85	4.55	R						
HUD12-24									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	8.9	8.9	DRIFT	DRIFT	557172.41	6148394.41	1283.04	299	yes
8.9	11.5	2.6	R	Cowmoose					
11.5	13.5	2	R	Green Marker					
13.5	33.7	20.2	R	Bullmoose					
33.7	33.9	0.2	CBSH	Bullmoose					
33.9	34.05	0.15	FAULT	POSSIBLE					
34.05	34.8	0.75	R	Bullmoose?					
34.8	35.25	0.45	R	Bluesky?					
35.25	37.1	1.85	R						
37.1	37.35	0.25	CBSH						
37.35	37.6	0.25	DC	A					
37.6	37.85	0.25	CBSH						
37.85	45.85	8	R						
45.85	46.2	0.35	CBSH						
46.2	49.2	3	R						
49.2	49.5	0.3	CBSH						
49.5	54.7	5.2	R						
54.7	55.05	0.35	CBSH						
55.05	59	3.95	R						
59	59.3	0.3	CBSH						
59.3	70.3	11	R						
70.3	70.6	0.3	CBSH						
70.6	71.5	0.9	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
71.5	71.85	0.35	CBSH						
71.85	72.8	0.95	R						
72.8	73.4	0.6	CR	B					
73.4	73.7	0.3	DC	B					
73.7	73.9	0.2	CBSH						
73.9	74.65	0.75	R						
74.65	76	1.35	CBSH						
76	76.4	0.4	R						
76.4	76.7	0.3	CBSH						
76.7	77.7	1	R						
77.7	78.5	0.8	CBSH						
78.5	81	2.5	R						
81	81.5	0.5	CBSH						
81.5	82.4	0.9	R						
82.4	83	0.6	IRST						
83	97.2	14.2	R						
97.2	97.55	0.35	CBSH						
97.55	101.2	3.65	R						
101.2	101.55	0.35	CR	C					
101.55	106.15	4.6	R						
106.15	106.5	0.35	IRST						
106.5	116.5	10	R						
116.5	116.7	0.2	FAULT	PROBABLE					
116.7	117.7	1	R						
117.7	118.9	1.2	CBSH						
118.9	128.85	9.95	R						
128.85	129.4	0.55	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
129.4	138.35	8.95	R						
138.35	138.95	0.6	CBSH						
138.95	139.35	0.4	CR	D					
139.35	143.35	4	R						
143.35	143.85	0.5	CBSH						
143.85	145.7	1.85	R						
145.7	145.9	0.2	IRST						
145.9	158.7	12.8	R						
158.7	159	0.3	IRST						
159	179.25	20.25	R						
179.25	179.6	0.35	IRST						
179.6	199.2	19.6	R						
199.2	199.5	0.3	CBSH	EU					
199.5	205.6	6.1	R						
205.6	205.95	0.35	CBSH	E					
205.95	215.2	9.25	R						
215.2	215.65	0.45	IRST						
215.65	246	30.35	R						
246	246.5	0.5	C	FU					
246.5	247.8	1.3	C	F					
247.8	250.5	2.7	R						
250.5	251	0.5	CBSH						
251	251.55	0.55	R						
251.55	251.85	0.3	CBSH	FG					
251.85	254.2	2.35	R						
254.2	254.4	0.2	CR						
254.4	254.75	0.35	C	GU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
254.75	254.95	0.2	DC	GU					
254.95	255.1	0.15	CR						
255.1	255.3	0.2	DC	GM					
255.3	255.65	0.35	C	GM					
255.65	256	0.35	R						
256	256.2	0.2	DC	GL					
256.2	256.5	0.3	CR	GL					
256.5	256.7	0.2	DC	GL					
256.7	256.9	0.2	CR						
256.9	258.7	1.8	R						
258.7	259.15	0.45	DC	H					
259.15	260.85	1.7	R						
260.85	261.15	0.3	CR						
261.15	261.4	0.25	DC	I					
261.4	261.85	0.45	C	I					
261.85	264.55	2.7	R						
264.55	264.9	0.35	CBSH						
264.9	267.3	2.4	R						
267.3	267.8	0.5	C	IJ					
267.8	268.3	0.5	CBSH						
268.3	268.85	0.55	R						
268.85	269.3	0.45	CBSH						
269.3	269.55	0.25	C	J					
269.55	269.65	0.1	FAULT	POSSIBLE					
269.65	270.3	0.65	C	J					
270.3	271.35	1.05	C	J					
271.35	271.95	0.6	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
271.95	272.25	0.3	CBSH						
272.25	272.65	0.4	CR						
272.65	272.85	0.2	CBSH						
272.85	273.1	0.25	R						
273.1	274.1	1	CBSH						
274.1	275.45	1.35	R						
275.45	275.6	0.15	IRST						
275.6	282.65	7.05	R						
282.65	283.4	0.75	C	JK					
283.4	283.6	0.2	CBSH						
283.6	291.5	7.9	R						
291.5	291.9	0.4	C	K					
291.9	292.3	0.4	DC	K					
292.3	293.55	1.25	C	K					
293.55	294	0.45	CR	K					
294	294.4	0.4	DC	K					
294.4	294.7	0.3	CR	K					
294.7	295	0.3	C	K					
295	296.31	1.31	R						
HUD12-25									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	8.8	8.8	DRIFT	DRIFT	557649.18	6147791.68	1236.42	259	yes
8.8	10.1	1.3	R						
10.1	10.3	0.2	CBSH						
10.3	10.75	0.45	R						
10.75	11.7	0.95	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
11.7	12.6	0.9	R						
12.6	13.05	0.45	CBSH						
13.05	13.4	0.35	CR						
13.4	15.2	1.8	R						
15.2	15.55	0.35	CBSH						
15.55	19.25	3.7	R						
19.25	19.5	0.25	CBSH						
19.5	22.55	3.05	R						
22.55	23.2	0.65	C	C					
23.2	23.6	0.4	CBSH	C					
23.6	24.25	0.65	C	C					
24.25	24.55	0.3	CR						
24.55	24.7	0.15	DC						
24.7	25.15	0.45	CR						
25.15	25.5	0.35	DC						
25.5	26.2	0.7	CBSH						
26.2	26.35	0.15	CR						
26.35	26.8	0.45	DC						
26.8	37.1	10.3	R						
37.1	37.3	0.2	CBSH	DU					
37.3	37.7	0.4	R						
37.7	38.25	0.55	C	D					
38.25	38.6	0.35	DC	D					
38.6	39.3	0.7	R						
39.3	39.55	0.25	CBSH						
39.55	47.25	7.7	R						
47.25	47.9	0.65	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
47.9	48	0.1	DC	EU					
48	49.4	1.4	C	E					
49.4	49.5	0.1	FAULT	POSSIBLE					
49.5	49.6	0.1	CBSH						
49.6	61.55	11.95	R						
61.55	61.8	0.25	CR						
61.8	68.3	6.5	R						
68.3	68.75	0.45	IRST						
68.75	78.35	9.6	R						
78.35	78.6	0.25	CBSH						
78.6	79.05	0.45	C	EF					
79.05	81.9	2.85	R						
81.9	82.25	0.35	CBSH						
82.25	86.25	4	R						
86.25	86.65	0.4	CBSH						
86.65	87.3	0.65	R						
87.3	87.7	0.4	CR	FU					
87.7	88.2	0.5	R						
88.2	88.35	0.15	CBSH						
88.35	90.65	2.3	R						
90.65	92	1.35	CBSH						
92	92.4	0.4	C	F					
92.4	92.9	0.5	R	F					
92.9	93.5	0.6	DC	F					
93.5	94.3	0.8	CBSH						
94.3	94.6	0.3	C						
94.6	94.8	0.2	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
94.8	95.6	0.8	R						
95.6	95.9	0.3	CBSH						
95.9	96.15	0.25	CR						
96.15	96.5	0.35	CBSH						
96.5	96.55	0.05	FAULT	POSSIBLE					
96.55	106.4	9.85	R						
106.4	106.7	0.3	IRST						
106.7	114.3	7.6	R						
114.3	114.8	0.5	CBSH						
114.8	115.3	0.5	R						
115.3	115.4	0.1	FAULT	POSSIBLE					
115.4	118	2.6	R						
118	118.25	0.25	IRST						
118.25	124.75	6.5	R						
124.75	125.1	0.35	CBSH						
125.1	129.65	4.55	R						
129.65	130.35	0.7	DC	FU					
130.35	130.6	0.25	CBSH	FU					
130.6	131	0.4	R	FU					
131	131.5	0.5	DC	FU					
131.5	132.15	0.65	R						
132.15	132.35	0.2	CBSH						
132.35	137.55	5.2	R						
137.55	137.8	0.25	CBSH						
137.8	138.2	0.4	CR						
138.2	138.3	0.1	DC	F					
138.3	139.9	2.6	C	F					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
139.9	140.1	0.2	CBSH						
140.1	142.5	2.4	R						
142.5	143	0.5	CR	GU					
143	143.5	0.5	R						
143.5	143.8	0.3	CBSH						
143.8	145.8	2	R						
145.8	146.5	0.7	DC	GM					
146.5	146.75	0.25	CBSH						
146.75	149.15	2.4	R						
149.15	149.5	0.35	DC	GL					
149.5	150	0.5	CBSH						
150	167.3	17.3	R						
167.3	167.7	0.4	DC	H					
167.7	179.7	12	R						
179.7	180.05	0.35	DC	I					
180.05	182	1.95	R						
182	182.3	0.3	CBSH						
182.3	186.4	4.1	R						
186.4	186.7	0.3	CBSH						
186.7	192.05	5.35	R						
192.05	192.8	0.75	CBSH						
192.8	193.9	1.1	R						
193.9	194.25	0.35	IRST						
194.25	194.85	0.6	R						
194.85	195.8	0.95	CBSH						
195.8	196.35	0.55	R						
196.35	196.65	0.3	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
196.65	196.85	0.2	R						
196.85	198.6	1.75	CBSH						
198.6	199.25	0.65	R						
199.25	199.7	0.45	DC	IJ					
199.7	207	7.3	R						
207	207.1	0.1	CBSH						
207.1	207.2	0.1	FAULT	POSSIBLE					
207.2	207.35	0.15	CBSH						
207.35	228	20.65	R						
228	228.15	0.15	FAULT	POSSIBLE					
228.15	228.4	0.25	CBSH						
228.4	228.85	0.45	R						
228.85	229	0.15	CBSH						
229	245	16	R						
245	245.2	0.2	DC	IJ					
245.2	245.4	0.2	C	IJ					
245.4	245.7	0.3	DC	IJ					
245.7	245.9	0.2	CR						
245.9	246.35	0.45	R						
246.35	246.9	0.55	CBSH						
246.9	247	0.1	FAULT	PROBABLE					
247	247.45	0.45	R						
247.45	247.9	0.45	DC	IJ					
247.9	248.4	0.5	R						
248.4	248.75	0.35	CBSH						
248.75	251.2	2.45	R						
251.2	252.55	1.35	C	J					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
252.55	253.4	0.85	DC	J					
253.4	253.8	0.4	CR	J					
253.8	254	0.2	DC	J					
254	254.5	0.5	C	J					
254.5	257.84	3.34	R						
HUD12-26									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	8.7	8.7	DRIFT	DRIFT	557167.47	6147887.06	1259.73	210	yes
8.7	22.45	13.75	R						
22.45	22.7	0.25	CBSH						
22.7	24.65	1.95	C	D					
24.65	24.95	0.3	CBSH						
24.95	28.7	3.75	R						
28.7	28.85	0.15	IRST						
28.85	49	20.15	R						
49	49.5	0.5	IRST						
49.5	54.7	5.2	R						
54.7	54.75	0.05	FAULT	POSSIBLE					
54.75	69.35	14.6	R						
69.35	69.65	0.3	CBSH						
69.65	69.7	0.05	FAULT	POSSIBLE					
69.7	72.4	2.7	R						
72.4	72.65	0.25	IRST						
72.65	77.05	4.4	R						
77.05	77.2	0.15	IRST						
77.2	80.7	3.5	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
80.7	81.2	0.5	CBSH						
81.2	81.55	0.35	DC	EU					
81.55	83.1	1.55	C	E					
83.1	83.2	0.1	CBSH						
83.2	83.3	0.1	R						
83.3	84.6	1.3	CBSH						
84.6	86.5	1.9	R						
86.5	86.8	0.3	FAULT	PROBABLE					
86.8	87	0.2	DC	EU					
87	87.25	0.25	CR						
87.25	87.4	0.15	CBSH						
87.4	87.7	0.3	CR						
87.7	88.2	0.5	DC	E					
88.2	88.4	0.2	CR	E					
88.4	88.7	0.3	DC	E					
88.7	91.2	2.5	C	E					
91.2	91.4	0.2	CR						
91.4	91.95	0.55	R						
91.95	92.55	0.6	CBSH						
92.55	93.05	0.5	R						
93.05	93.4	0.35	CR	EF					
93.4	93.55	0.15	CBSH						
93.55	95	1.45	R						
95	95.5	0.5	CBSH						
95.5	106	10.5	R						
106	106.2	0.2	CBSH						
106.2	107.7	1.5	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
107.7	108.15	0.45	CBSH						
108.15	108.55	0.4	R						
108.55	108.75	0.2	CBSH						
108.75	109.7	0.95	R						
109.7	110.15	0.45	CR	FU					
110.15	114	3.85	R						
114	114.5	0.5	CBSH						
114.5	115.4	0.9	R						
115.4	115.9	0.5	DC	F					
115.9	116.85	0.95	C	F					
116.85	117.2	0.35	DC	F					
117.2	117.35	0.15	CR	F					
117.35	118.3	0.95	C	F					
118.3	118.6	0.3	CR						
118.6	119.4	0.8	CBSH						
119.4	120	0.6	CR						
120	120.55	0.55	CBSH						
120.55	120.95	0.4	DC						
120.95	127.7	6.75	R						
127.7	128.15	0.45	CBSH	GU					
128.15	129.35	1.2	R						
129.35	129.7	0.35	CBSH						
129.7	130.35	0.65	C	GM					
130.35	130.65	0.3	C	GL					
130.65	130.85	0.2	CBSH						
130.85	136.2	5.35	R						
136.2	136.35	0.15	IRST						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
136.35	151.4	15.05	R						
151.4	151.55	0.15	C	H					
151.55	151.75	0.2	FAULT	POSSIBLE					
151.75	152	0.25	DC	H					
152	159.8	7.8	R						
159.8	160.2	0.4	CBSH						
160.2	163.4	3.2	R						
163.4	163.6	0.2	CBSH						
163.6	163.9	0.3	CR	I					
163.9	168	4.1	R						
168	168.3	0.3	CBSH						
168.3	169.25	0.95	R						
169.25	169.75	0.5	DC	IJ					
169.75	170.65	0.9	R						
170.65	170.95	0.3	CBSH						
170.95	173.43	2.48	R						
HUD12-27									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	8.7	8.7	DRIFT	DRIFT	557167.94	6147887.62	1259.93	84.2	yes
8.7	31.1	22.4	R						
31.1	31.5	0.4	IRST						
31.5	42	10.5	R						
42	42.4	0.4	CBSH						
42.4	43.3	0.9	R						
43.3	43.85	0.55	CBSH						
43.85	44.75	0.9	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
44.75	45.7	0.95	CBSH						
45.7	46.1	0.4	R						
46.1	47	0.9	CBSH						
47	48.05	1.05	CR	D					
48.05	48.45	0.4	CBSH	D					
48.45	49.7	1.25	CR	D					
49.7	49.95	0.25	CBSH	D					
49.95	50.5	0.55	CR	D					
50.5	51.15	0.65	CBSH						
51.15	52	0.85	R						
52	53.25	1.25	CBSH						
53.25	82.85	29.6	R						
82.85	83.8	0.95	CBSH	DE					
83.8	84.2	0.4	R						
HUD12-28									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	3	3	DRIFT	DRIFT	556217.07	6148910.58	1312.71	252.98	yes
3	5.6	2.6	R						
5.6	6.4	0.8	C	Unknown					
6.4	11.65	5.25	R						
11.65	11.85	0.2	ASH						
11.85	11.95	0.1	DC	Unknown					
11.95	12.45	0.5	C	Unknown					
12.45	12.75	0.3	R						
12.75	13.1	0.35	C	Unknown					
13.1	13.75	0.65	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
13.75	14.35	0.6	FAULT	POSSIBLE					
14.35	96.35	82	R	Cowmoose					
96.35	97.8	1.45	R	Green Marker					
97.8	108.85	11.05	R	Bullmoose					
108.85	109.3	0.45	IRST	Bullmoose					
109.3	110.75	1.45	R	Bullmoose					
110.75	113.4	2.65	R	Bluesky					
113.4	140.65	27.25	R						
140.65	144.95	4.3	C	A					
144.95	145.3	0.35	FAULT	POSSIBLE					
145.3	145.7	0.4	CBSH						
145.7	179	33.3	R						
179	179.9	0.9	CBSH						
179.9	185.9	6	R						
185.9	186.2	0.3	CBSH						
186.2	219.9	33.7	R						
219.9	220.55	0.65	CBSH						
220.55	225.75	5.2	R						
225.75	227.05	1.3	C	B					
227.05	227.55	0.5	DC	B					
227.55	227.9	0.35	C	B					
227.9	242.4	14.5	R						
242.4	242.85	0.45	CBSH	D					
242.85	246.3	3.45	R						
246.3	247.6	1.3	CBSH	EU					
247.6	247.95	0.35	CR	E					
247.95	252.13	4.18	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
HUD12-29									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	4.6	4.6	DRIFT	DRIFT	556580.85	6148922.98	1327.38	230.76	yes
4.6	16.4	11.8	R	Spieker					
16.4	16.6	0.2	CBSH	Spieker					
16.6	16.8	0.2	FAULT	PROBABLE					
16.8	28.6	11.8	R	Spieker					
28.6	28.9	0.3	CBSH	Spieker					
28.9	29.25	0.35	FAULT	PROBABLE					
29.25	30	0.75	R	Spieker					
30	30.1	0.1	FAULT	POSSIBLE					
30.1	47	16.9	R	Spieker					
47	94.7	47.7	R	Cowmoose					
94.7	95.1	0.4	R	Sandstone Marker					
95.1	150.35	55.25	R	Cowmoose					
150.35	150.5	0.15	IRST	Cowmoose					
150.5	151.45	0.95	R	Cowmoose					
151.45	151.55	0.1	FAULT	POSSIBLE					
151.55	158.3	6.75	R	Cowmoose					
158.3	159.1	0.8	R	Sandstone Marker					
159.1	176.85	17.75	R	Cowmoose					
176.85	176.95	0.1	IRST	Cowmoose					
176.95	181.2	4.25	R	Cowmoose					
181.2	181.35	0.15	IRST	Cowmoose					
181.35	194.2	12.85	R	Cowmoose					
194.2	194.45	0.25	IRST	Cowmoose					
194.45	201.8	7.35	R	Cowmoose					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
201.8	202.05	0.25	IRST	Cowmoose					
202.05	211.95	9.9	R	Cowmoose					
211.95	212.3	0.35	IRST	Cowmoose					
212.3	220.85	8.55	R	Cowmoose					
220.85	221	0.15	ASH	Cowmoose					
221	227.55	6.55	R	Cowmoose					
227.55	227.7	0.15	IRST	Cowmoose					
227.7	230.72	3.02	R	Cowmoose					
HUD12-30									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	8	8	DRIFT	DRIFT	555657.31	6149178.54	1311.24	227.76	yes
8	14.45	6.45	R	Cowmoose					
14.45	14.6	0.15	IRST	Cowmoose					
14.6	26.1	11.5	R	Cowmoose					
26.1	26.4	0.3	CR	Cowmoose					
26.4	29.4	3	R	Cowmoose					
29.4	29.6	0.2	FAULT	PROBABLE					
29.6	29.8	0.2	R	Cowmoose					
29.8	29.9	0.1	CBSH	Cowmoose					
29.9	40.15	10.25	R	Cowmoose					
40.15	40.3	0.15	CBSH	Cowmoose					
40.3	46.7	6.4	R	Cowmoose					
46.7	47	0.3	IRST	Cowmoose					
47	54.35	7.35	R	Cowmoose					
54.35	54.7	0.35	IRST	Cowmoose					
54.7	63.9	9.2	R	Cowmoose					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
63.9	64.05	0.15	IRST	Cowmoose					
64.05	77.8	13.75	R	Cowmoose					
77.8	78	0.2	IRST	Cowmoose					
78	86.5	8.5	R	Cowmoose					
86.5	86.9	0.4	IRST	Cowmoose					
86.9	105.65	18.75	R	Cowmoose					
105.65	107.4	1.75	R	Green Marker					
107.4	107.5	0.1	FAULT	POSSIBLE					
107.5	108.75	1.25	R	Green Marker					
108.75	119.55	10.8	R	Bullmoose					
119.55	119.8	0.25	R	Bluesky					
119.8	120.85	1.05	R						
120.85	121.3	0.45	C	A					
121.3	121.85	0.55	CBSH						
121.85	139.4	17.55	R						
139.4	140.4	1	C	B					
140.4	141.4	1	C	B					
141.4	141.9	0.5	DC	B					
141.9	147	5.1	R						
147	147.3	0.3	IRST						
147.3	150.45	3.15	R						
150.45	150.5	0.05	FAULT	POSSIBLE					
150.5	150.65	0.15	R						
150.65	150.95	0.3	CBSH	CU					
150.95	151.95	1	R						
151.95	152.15	0.2	CBSH	C					
152.15	155.4	3.25	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
155.4	155.55	0.15	ASH						
155.55	156.2	0.65	R						
156.2	156.4	0.2	FAULT	POSSIBLE					
156.4	156.6	0.2	CBSH	C					
156.6	162.7	6.1	R						
162.7	162.9	0.2	CBSH	DU					
162.9	163.2	0.3	R						
163.2	163.4	0.2	IRST						
163.4	167.3	3.9	R						
167.3	168.1	0.8	C	DR					
168.1	168.7	0.6	CBSH						
168.7	169.2	0.5	CR						
169.2	169.35	0.15	DC	D					
169.35	170.55	1.2	C	D					
170.55	170.8	0.25	CBSH						
170.8	170.85	0.05	ASH						
170.85	176.3	5.45	R						
176.3	176.6	0.3	CBSH	EU					
176.6	177.05	0.45	R						
177.05	177.6	0.55	CBSH	E					
177.6	179.35	1.75	R						
179.35	179.7	0.35	CBSH	EF					
179.7	188.6	8.9	R						
188.6	188.8	0.2	CR	FU					
188.8	189	0.2	R						
189	189.1	0.1	CR	F					
189.1	189.35	0.25	CBSH	F					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
189.35	189.7	0.35	R	F					
189.7	190.05	0.35	CBSH	F					
190.05	191.2	1.15	R						
191.2	191.45	0.25	CBSH						
191.45	210.46	19.01	R						
HUD12-31C									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	5	5	DRIFT	DRIFT	555992.22	6149146.73	1329.01	240.79	yes
5	10.55	5.55	R						
10.55	10.95	0.4	CBSH						
10.95	14.7	3.75	C	B					
14.7	14.85	0.15	DC	B					
14.85	15.95	1.1	C	B					
15.95	16.2	0.25	CBSH						
16.2	23.1	6.9	R						
23.1	24.65	1.55	CBSH						
24.65	24.95	0.3	CR						
24.95	27.95	3	R						
27.95	28.1	0.15	CBSH						
28.1	29.1	1	R						
29.1	29.2	0.1	CBSH						
29.2	29.4	0.2	FAULT	PROBABLE					
29.4	32.3	2.9	R						
32.3	32.31	0.01	FOLD	Normal/Inverted					
32.31	44.15	11.84	R						
44.15	44.3	0.15	FAULT	POSSIBLE					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
44.3	44.5	0.2	CR						
44.5	45	0.5	R						
45	45.25	0.25	FAULT	PROBABLE					
45.25	45.5	0.25	C	B					
45.5	45.7	0.2	DC	B					
45.7	45.85	0.15	CR	B					
45.85	46	0.15	DC	B					
46	46.45	0.45	CBSH	B					
46.45	48.2	1.75	C	B					
48.2	48.65	0.45	DC	B					
48.65	54.85	6.2	C	B					
54.85	55.05	0.2	DC	B					
55.05	55.2	0.15	FAULT	PROBABLE					
55.2	83.2	28	R	Begins as Normal					
83.2	83.35	0.15	ASH	Cowmoose					
83.35	113.35	30	R	Cowmoose					
113.35	113.7	0.35	IRST	Cowmoose					
113.7	120.5	6.8	R	Cowmoose					
120.5	121.55	1.05	R	Green Marker					
121.55	131.7	10.15	R	Bullmoose					
131.7	132	0.3	IRST	Bullmoose					
132	132.4	0.4	R	Bullmoose					
132.4	136.4	4	R	Bluesky					
136.4	147.15	10.75	R						
147.15	148.7	1.55	C	A					
148.7	148.85	0.15	DC	A					
148.85	163.1	14.25	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
163.1	163.55	0.45	CBSH						
163.55	171.55	8	R						
171.55	171.9	0.35	CR						
171.9	177.9	6	R						
177.9	178.3	0.4	C						
178.3	184.85	6.55	R						
184.85	185.45	0.6	CR						
185.45	188.55	3.1	C	B					
188.55	188.8	0.25	DC	B					
188.8	189.1	0.3	FAULT	PROBABLE					
189.1	190.05	0.95	C	B					
190.05	190.15	0.1	FAULT	POSSIBLE					
190.15	191.45	1.3	C	B					
191.45	191.7	0.25	DC	B					
191.7	191.85	0.15	CBSH						
191.85	192.2	0.35	R						
192.2	194.4	2.2	CBSH						
194.4	194.8	0.4	R						
194.8	196.8	2	CBSH						
196.8	199.45	2.65	R						
199.45	199.7	0.25	CBSH						
199.7	208.1	8.4	R						
208.1	208.6	0.5	CBSH	CU					
208.6	209	0.4	R						
209	209.35	0.35	CBSH	C					
209.35	219.3	9.95	R						
219.3	219.75	0.45	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
219.75	220.25	0.5	C	D					
220.25	220.45	0.2	DC	D					
220.45	221	0.55	CBSH						
221	224.45	3.45	R						
224.45	224.8	0.35	CR	EU					
224.8	225.05	0.25	R	EU					
225.05	225.4	0.35	CR	EU					
225.4	226.1	0.7	CBSH	EU					
226.1	226.45	0.35	CR	EU					
226.45	226.9	0.45	R						
226.9	227.05	0.15	CBSH						
227.05	228.15	1.1	C	E					
228.15	228.6	0.45	CBSH						
228.6	236.69	8.09	R						
HUD12-34									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	7.1	7.1	DRIFT	DRIFT	555754.25	6148542.78	1236.93	250	yes
7.1	32.9	25.8	R						
32.9	33.1	0.2	C	EU					
33.1	33.4	0.3	FAULT	POSSIBLE					
33.4	33.8	0.4	CBSH	E					
33.8	42.7	8.9	R						
42.7	43.15	0.45	CBSH	FU					
43.15	43.8	0.65	R						
43.8	44.4	0.6	C	F					
44.4	44.8	0.4	FAULT	POSSIBLE					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
44.8	45	0.2	C	F					
45	45.2	0.2	DC	F					
45.2	45.9	0.7	C	F					
45.9	46.25	0.35	FAULT	POSSIBLE					
46.25	47	0.75	CBSH						
47	47.5	0.5	CR						
47.5	48.4	0.9	R						
48.4	48.75	0.35	CBSH						
48.75	49.1	0.35	R						
49.1	49.25	0.15	CBSH						
49.25	49.4	0.15	FAULT	POSSIBLE					
49.4	54.6	5.2	R						
54.6	54.9	0.3	CBSH						
54.9	55.25	0.35	C	GU					
55.25	55.6	0.35	DC	GU					
55.6	55.9	0.3	CR						
55.9	56.6	0.7	R						
56.6	56.8	0.2	CBSH						
56.8	57	0.2	C	GM					
57	57.3	0.3	DC	GM					
57.3	70	12.7	R						
70	70.5	0.5	CR	GL					
70.5	70.8	0.3	CBSH						
70.8	72	1.2	R						
72	72.2	0.2	CBSH						
72.2	73.65	1.45	C	H					
73.65	74.3	0.65	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
74.3	75	0.7	CBSH						
75	75.3	0.3	R						
75.3	75.7	0.4	CBSH						
75.7	76.05	0.35	R						
76.05	76.9	0.85	CBSH	HL					
76.9	77.1	0.2	CR	HL					
77.1	77.35	0.25	CBSH	HL					
77.35	84.25	6.9	R						
84.25	84.65	0.4	CR						
84.65	84.85	0.2	CBSH						
84.85	87.6	2.75	R						
87.6	88.05	0.45	IRST						
88.05	89.5	1.45	R						
89.5	89.75	0.25	CBSH						
89.75	90	0.25	CR						
90	90.3	0.3	CBSH						
90.3	92.75	2.45	R						
92.75	93.2	0.45	DC	I					
93.2	93.35	0.15	FAULT	POSSIBLE					
93.35	93.55	0.2	CBSH						
93.55	100.15	6.6	R						
100.15	100.7	0.55	DC	I					
100.7	100.8	0.1	FAULT	POSSIBLE					
100.8	101.4	0.6	DC	I					
101.4	101.7	0.3	CR						
101.7	112.85	11.15	R						
112.85	113.35	0.5	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
113.35	113.4	0.05	FAULT	POSSIBLE					
113.4	113.5	0.1	CBSH						
113.5	113.9	0.4	R						
113.9	114.2	0.3	DC						
114.2	114.45	0.25	CBSH						
114.45	123.2	8.75	R						
123.2	123.6	0.4	DC	IJ					
123.6	127.1	3.5	R						
127.1	127.2	0.1	FAULT	POSSIBLE					
127.2	160.5	33.3	R						
160.5	160.7	0.2	CBSH						
160.7	163.2	2.5	C	J					
163.2	163.4	0.2	CBSH						
163.4	168.65	5.25	R						
168.65	169.6	0.95	CBSH						
169.6	187	17.4	R						
187	187.1	0.1	FAULT	POSSIBLE					
187.1	187.65	0.55	C	I					
187.65	187.85	0.2	CR						
187.85	197.9	10.05	R						
197.9	198.3	0.4	CBSH						
198.3	208.9	10.6	R						
208.9	209.1	0.2	CBSH						
209.1	209.25	0.15	C	IJ					
209.25	206.65	-2.6	DC	IJ					
206.65	211.9	5.25	R						
211.9	212.15	0.25	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
212.15	212.45	0.3	CR						
212.45	214	1.55	R						
214	214.4	0.4	CBSH						
214.4	217.1	2.7	R						
217.1	218.4	1.3	CBSH						
218.4	226.1	7.7	R						
226.1	226.4	0.3	CBSH						
226.4	226.6	0.2	R						
226.6	226.75	0.15	IRST						
226.75	240.4	13.65	R						
240.4	240.9	0.5	CR						
240.9	243.05	2.15	R						
243.05	243.97	0.92	CBSH						
HUD13-01C									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	3.75	3.75	DRIFT	DRIFT	555758.30	6147908.00	1325.07	110	yes
3.75	5.4	1.65	R						
5.4	5.7	0.3	CBSH						
5.7	7.3	1.6	C	DU					
7.3	7.35	0.05	FAULT	POSSIBLE					
7.35	7.8	0.45	C	DU					
7.8	8.15	0.35	CBSH						
8.15	8.4	0.25	R						
8.4	8.6	0.2	CBSH						
8.6	8.75	0.15	CR						
8.75	8.8	0.05	FAULT	PROBABLE					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
8.8	9.65	0.85	DC	CU					
9.65	10.15	0.5	C	CU					
10.15	10.4	0.25	DC	CU					
10.4	10.5	0.1	ASH						
10.5	10.65	0.15	DC	C					
10.65	11.8	1.15	C	C					
11.8	11.9	0.1	DC	C					
11.9	12.4	0.5	CR						
12.4	13.95	1.55	CBSH						
13.95	15.9	1.95	C	DU					
15.9	16.7	0.8	CBSH						
16.7	17	0.3	CR						
17	17.3	0.3	DC	DR					
17.3	17.5	0.2	CBSH						
17.5	18.15	0.65	R						
18.15	18.35	0.2	CBSH						
18.35	19.05	0.7	R						
19.05	19.6	0.55	CBSH						
19.6	20.35	0.75	R						
20.35	20.85	0.5	CBSH						
20.85	22.2	1.35	R						
22.2	22.7	0.5	CBSH	D					
22.7	29.1	6.4	R						
29.1	29.35	0.25	CBSH	DE					
29.35	44.9	15.55	R						
44.9	45.2	0.3	CBSH						
45.2	45.3	0.1	FAULT	POSSIBLE					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
45.3	45.4	0.1	CR	EU					
45.4	45.5	0.1	CBSH						
45.5	45.85	0.35	FAULT	PROBABLE					
45.85	46.15	0.3	CR	EU					
46.15	46.3	0.15	CBSH						
46.3	46.6	0.3	R						
46.6	46.9	0.3	CR						
46.9	47.6	0.7	C	E					
47.6	47.75	0.15	CBSH						
47.75	49.4	1.65	R						
49.4	49.65	0.25	IRST						
49.65	49.85	0.2	R						
49.85	49.95	0.1	ASH						
49.95	59	9.05	R						
59	59.6	0.6	CBSH	EF					
59.6	59.8	0.2	R						
59.8	60.4	0.6	CBSH						
60.4	63.8	3.4	R						
63.8	64.05	0.25	CBSH						
64.05	64.45	0.4	CR	FU					
64.45	64.7	0.25	CBSH						
64.7	65.75	1.05	R						
65.75	66	0.25	CBSH						
66	67.05	1.05	C	F					
67.05	68.4	1.35	C	F					
68.4	72.2	3.8	R						
72.2	72.3	0.1	ASH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
72.3	80.2	7.9	R						
80.2	80.45	0.25	CBSH						
80.45	80.7	0.25	CR	FG					
80.7	80.9	0.2	CBSH						
80.9	82.3	1.4	R						
82.3	82.8	0.5	DC	GU					
82.8	83.15	0.35	CR						
83.15	83.7	0.55	DC	GM					
83.7	84	0.3	C	GL					
84	84.25	0.25	CBSH						
84.25	87.25	3	R						
87.25	88.1	0.85	CBSH	H					
88.1	90	1.9	R						
90	90.2	0.2	CBSH						
90.2	90.75	0.55	C	I					
90.75	99.85	9.1	R						
99.85	100.2	0.35	CBSH						
100.2	100.45	0.25	R						
100.45	100.55	0.1	ASH						
100.55	102.45	1.9	R						
102.45	102.9	0.45	CR	IJ					
102.9	103	0.1	CBSH						
103	103.6	0.6	R						
103.6	103.65	0.05	ASH						
103.65	109.1	5.45	R						
109.1	109.4	0.3	CBSH						
109.4	109.63	0.23	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
HUD13-02C									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	7.15	7.15	DRIFT	DRIFT	556337.40	6148335.00	1281.20	252	yes
7.15	19.55	12.4	R	Cowmoose					
19.55	20.3	0.75	R	Green Marker					
20.3	35.3	15	R	Bullmoose					
35.3	36.7	1.4	R	Bluesky					
36.7	37.6	0.9	R						
37.6	37.8	0.2	CR						
37.8	39.1	1.3	C	A					
39.1	39.35	0.25	DC	A					
39.35	39.6	0.25	CR						
39.6	39.95	0.35	CBSH						
39.95	45.4	5.45	R						
45.4	45.8	0.4	CBSH						
45.8	58.85	13.05	R						
58.85	59.2	0.35	CR						
59.2	60.5	1.3	C	B					
60.5	60.6	0.1	DC	B					
60.6	60.65	0.05	CR						
60.65	60.8	0.15	FAULT	POSSIBLE					
60.8	78.8	18	R						
78.8	79.3	0.5	CBSH						
79.3	82.4	3.1	R						
82.4	82.85	0.45	CBSH						
82.85	84.55	1.7	R						
84.55	84.75	0.2	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
84.75	84.85	0.1	CR						
84.85	85.05	0.2	DC	CU					
85.05	85.5	0.45	CBSH						
85.5	86.4	0.9	C	C					
86.4	86.7	0.3	CR						
86.7	87	0.3	CBSH						
87	87.8	0.8	R						
87.8	89.75	1.95	CBSH						
89.75	89.85	0.1	CR						
89.85	90.15	0.3	DC	D					
90.15	91.3	1.15	C	D					
91.3	91.45	0.15	DC	D					
91.45	91.65	0.2	CBSH						
91.65	100.5	8.85	R						
100.5	101	0.5	CBSH						
101	101.5	0.5	R						
101.5	102.4	0.9	CBSH						
102.4	103.05	0.65	R						
103.05	103.6	0.55	CR	DE					
103.6	127.5	23.9	R						
127.5	127.8	0.3	CBSH						
127.8	128	0.2	CR	EU					
128	128.7	0.7	CBSH						
128.7	129.05	0.35	R						
129.05	129.5	0.45	CBSH						
129.5	129.95	0.45	R						
129.95	130.2	0.25	DC	E					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
130.2	130.75	0.55	C	E					
130.75	130.9	0.15	DC	E					
130.9	131.8	0.9	C	E					
131.8	136	4.2	R						
136	137.15	1.15	CBSH						
137.15	138	0.85	R						
138	139.8	1.8	CBSH						
139.8	144.15	4.35	R						
144.15	145	0.85	CBSH						
145	145.45	0.45	R						
145.45	146.4	0.95	CBSH						
146.4	148.2	1.8	R						
148.2	148.4	0.2	CR						
148.4	148.6	0.2	DC	FU					
148.6	148.9	0.3	C	FU					
148.9	149.1	0.2	DC	F					
149.1	149.85	0.75	C	F					
149.85	150.9	1.05	C	F					
150.9	151.2	0.3	CR						
151.2	152.25	1.05	CBSH						
152.25	156.6	4.35	R						
156.6	156.9	0.3	CBSH						
156.9	157.2	0.3	CR	FG					
157.2	160.85	3.65	R						
160.85	161.4	0.55	CBSH						
161.4	161.55	0.15	CR						
161.55	161.65	0.1	DC	GU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
161.65	162.1	0.45	C	GU					
162.1	162.3	0.2	CR						
162.3	162.5	0.2	CBSH						
162.5	162.7	0.2	CR						
162.7	163.15	0.45	C	GM					
163.15	163.5	0.35	C	GL					
163.5	163.6	0.1	DC	GL					
163.6	163.8	0.2	CR						
163.8	174.3	10.5	R						
174.3	174.85	0.55	CBSH						
174.85	175.4	0.55	R						
175.4	176.25	0.85	CBSH						
176.25	178.2	1.95	R						
178.2	178.4	0.2	DC	H					
178.4	179.55	1.15	C	H					
179.55	179.9	0.35	CBSH						
179.9	180.2	0.3	R						
180.2	180.8	0.6	DC	HL					
180.8	183.2	2.4	R						
183.2	183.3	0.1	CBSH	I					
183.3	183.5	0.2	CR	I					
183.5	183.75	0.25	CBSH	I					
183.75	196	12.25	R						
196	196.95	0.95	CBSH						
196.95	197.25	0.3	CR	IJ					
197.25	197.3	0.05	DC	IJ					
197.3	197.5	0.2	CR	IJ					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
197.5	197.65	0.15	CBSH						
197.65	197.9	0.25	R						
197.9	198.25	0.35	CBSH						
198.25	200	1.75	R						
200	200.15	0.15	CBSH						
200.15	201.3	1.15	R						
201.3	201.8	0.5	C	J					
201.8	202.3	0.5	DC	J					
202.3	203.1	0.8	C	J					
203.1	203.3	0.2	CR						
203.3	208.6	5.3	R						
208.6	209.1	0.5	CBSH						
209.1	209.75	0.65	R						
209.75	211.7	1.95	CBSH						
211.7	213.35	1.65	R						
213.35	214.45	1.1	CBSH						
214.45	219.5	5.05	R						
219.5	219.7	0.2	IRST						
219.7	224.05	4.35	R						
224.05	224.6	0.55	CBSH						
224.6	225.55	0.95	R						
225.55	226	0.45	IRST						
226	226.5	0.5	R						
226.5	227.05	0.55	CBSH						
227.05	229.65	2.6	R						
229.65	230.1	0.45	IRST						
230.1	231.3	1.2	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
231.3	231.6	0.3	CBSH						
231.6	233.4	1.8	R						
233.4	233.6	0.2	CBSH						
233.6	235.55	1.95	R						
235.55	236.35	0.8	C	KR					
236.35	236.8	0.45	CBSH						
236.8	238.7	1.9	C	KU					
238.7	240.6	1.9	C	KM					
240.6	240.8	0.2	DC	KM					
240.8	241.5	0.7	CR						
241.5	241.7	0.2	CBSH						
241.7	241.85	0.15	CR						
241.85	242.1	0.25	CBSH						
242.1	242.2	0.1	CR						
242.2	242.6	0.4	CBSH						
242.6	244.9	2.3	R						
244.9	245.05	0.15	CBSH	KL					
245.05	245.4	0.35	DC	KL					
245.4	245.6	0.2	CBSH	KL					
245.6	251.12	5.52	R						
HUD13-04									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	5.5	5.5	DRIFT	DRIFT	556466	6148758	1308	197.45	yes
5.5	10.9	5.4	R	Cowmoose					
10.9	12.9	2	R	Green Marker					
12.9	30.2	17.3	R	Bullmoose					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
30.2	30.55	0.35	R	Bluesky					
30.55	30.8	0.25	R						
30.8	30.95	0.15	DC	A					
30.95	32.4	1.45	C	A					
32.4	32.6	0.2	DC	A					
32.6	45.2	12.6	R						
45.2	45.6	0.4	CBSH						
45.6	62.1	16.5	R						
62.1	62.45	0.35	CBSH						
62.45	71.55	9.1	R						
71.55	71.9	0.35	CBSH						
71.9	77.2	5.3	R						
77.2	77.45	0.25	CBSH						
77.45	78.3	0.85	R						
78.3	78.6	0.3	CBSH						
78.6	78.85	0.25	CR						
78.85	81.1	2.25	C	B					
81.1	81.45	0.35	DC	B					
81.45	81.8	0.35	C	B					
81.8	82.35	0.55	CBSH						
82.35	82.9	0.55	R						
82.9	83.8	0.9	CBSH						
83.8	97.25	13.45	R						
97.25	97.6	0.35	CBSH						
97.6	97.8	0.2	ASH						
97.8	97.95	0.15	R						
97.95	98.4	0.45	DC	CU					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
98.4	99	0.6	CR						
99	99.2	0.2	C	C					
99.2	99.4	0.2	DC	C					
99.4	100.15	0.75	CBSH						
100.15	113.95	13.8	R						
113.95	114.7	0.75	CBSH	DU					
114.7	115	0.3	ASH						
115	115.4	0.4	CR	DR					
115.4	115.95	0.55	CBSH						
115.95	117.25	1.3	R						
117.25	117.35	0.1	CBSH						
117.35	117.9	0.55	CR	D					
117.9	118.1	0.2	CBSH						
118.1	125.25	7.15	R						
125.25	125.35	0.1	CBSH	DE					
125.35	125.55	0.2	R						
125.55	125.6	0.05	CBSH	EU					
125.6	131.7	6.1	R						
131.7	132	0.3	CBSH	E					
132	133.35	1.35	R						
133.35	133.6	0.25	CBSB						
133.6	133.9	0.3	CR	EF					
133.9	134.6	0.7	CBSH						
134.6	134.9	0.3	R						
134.9	135.1	0.2	CBSH						
135.1	135.3	0.2	DC	FU					
135.3	136.1	0.8	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
136.1	136.85	0.75	R						
136.85	137.45	0.6	CBSH						
137.45	139.3	1.85	R						
139.3	139.6	0.3	CBSH						
139.6	139.9	0.3	R						
139.9	140.15	0.25	CBSH						
140.15	140.35	0.2	DC	F					
140.35	141	0.65	C	F					
141	141.05	0.05	DC	F					
141.05	141.7	0.65	C	F					
141.7	141.9	0.2	CBSH						
141.9	146.7	4.8	R						
146.7	146.8	0.1	FAULT	POSSIBLE					
146.8	163.8	17	R						
163.8	164.05	0.25	IRST						
164.05	165.95	1.9	R						
165.95	166.3	0.35	ASH						
166.3	166.7	0.4	R						
166.7	167.1	0.4	ASH						
167.1	179.6	12.5	R						
179.6	179.85	0.25	CBSH	GM					
179.85	180	0.15	R						
180	180.35	0.35	CBSH	GL					
180.35	181.95	1.6	R						
181.95	182.35	0.4	CR	H					
182.35	184.4	2.05	R						
184.4	184.75	0.35	CBSH	I					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
184.75	194.55	9.8	R						
194.55	194.9	0.35	CBSH						
194.9	195.1	0.2	CR						
195.1	196.45	1.35	C	J					
196.45	196.9	0.45	CBSH	J					
196.9	197.25	0.35	DC	J					
197.25	197.45	0.2	R						
HUD13-05									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	9.3	9.3	DRIFT	DRIFT	556737	6148438	1288	189	yes
9.3	17.35	8.05	R						
17.35	17.8	0.45	CBSH						
17.8	18.2	0.4	DC						
18.2	18.8	0.6	R						
18.8	19.6	0.8	CBSH						
19.6	25	5.4	R						
25	25.9	0.9	CBSH						
25.9	26.05	0.15	R						
26.05	26.6	0.55	CBSH						
26.6	28.95	2.35	R						
28.95	29.6	0.65	CBSH						
29.6	29.9	0.3	R						
29.9	31	1.1	C	B					
31	66.05	35.05	R						
66.05	66.8	0.75	CBSH	EU					
66.8	68.75	1.95	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
68.75	68.85	0.1	FAULT	POSSIBLE					
68.85	69.25	0.4	CBSH	EU					
69.25	72.4	3.15	R						
72.4	72.85	0.45	C	E					
72.85	73.4	0.55	DC	E					
73.4	73.7	0.3	CBSH						
73.7	74.25	0.55	R						
74.25	74.5	0.25	CBSH						
74.5	77.95	3.45	R						
77.95	78.35	0.4	CBSH	FU					
78.35	78.85	0.5	R						
78.85	79.1	0.25	DC	F					
79.1	79.3	0.2	C	F					
79.3	79.5	0.2	DC	F					
79.5	80.35	0.85	C	F					
80.35	80.5	0.15	DC	F					
80.5	80.6	0.1	FAULT	POSSIBLE					
80.6	82	1.4	R						
82	82.4	0.4	CR	C					
82.4	92.4	10	R						
92.4	92.7	0.3	CBSH	D					
92.7	112.45	19.75	R						
112.45	112.8	0.35	CBSH						
112.8	113.5	0.7	C	EU					
113.5	114.6	1.1	C	EU					
114.6	114.9	0.3	FAULT	POSSIBLE					
114.9	115.55	0.65	DC	E					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
115.55	115.95	0.4	CR	E					
115.95	116.35	0.4	C	E					
116.35	117.3	0.95	R						
117.3	117.6	0.3	IRST						
117.6	123.6	6	R	FU					
123.6	124	0.4	CBSH						
124	125.2	1.2	R						
125.2	125.4	0.2	CBSH						
125.4	125.7	0.3	CR						
125.7	126.5	0.8	C	F					
126.5	127.3	0.8	R						
127.3	127.6	0.3	CR						
127.6	144.9	17.3	R						
144.9	146	1.1	C	GU					
146	146.2	0.2	DC	GU					
146.2	146.7	0.5	R						
146.7	147	0.3	FAULT	POSSIBLE					
147	147.4	0.4	R						
147.4	147.85	0.45	CBSH	GL					
147.85	150.95	3.1	R						
150.95	151.4	0.45	DC	H					
151.4	156.8	5.4	R						
156.8	157.25	0.45	CR						
157.25	157.8	0.55	R						
157.8	158.15	0.35	DC	I					
158.15	172.8	14.65	R						
172.8	173	0.2	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
173	174.65	1.65	R						
174.65	175.2	0.55	DC	J					
175.2	175.5	0.3	R	J					
175.5	176.1	0.6	C	J					
176.1	176.6	0.5	R	J					
176.6	176.95	0.35	DC	J					
176.95	177.3	0.35	R						
177.3	177.65	0.35	CR						
177.65	184.6	6.95	R						
184.6	185.1	0.5	DC	JK					
185.1	185.5	0.4	R						
185.5	185.75	0.25	CBSH						
185.75	188.07	2.32	R						
HUD13-07									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	2.3	2.3	DRIFT	DRIFT	555321.78	6147938.35	1191.23	240.79	yes
2.3	15.3	13	R						
15.3	15.7	0.4	CR	CT					
15.7	17.3	1.6	R						
17.3	18.55	1.25	C	C					
18.55	18.8	0.25	FAULT	POSSIBLE					
18.8	20	1.2	C	C					
20	20.3	0.3	CBSH						
20.3	22.2	1.9	R						
22.2	22.5	0.3	ASH						
22.5	25.05	2.55	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
25.05	25.45	0.4	CBSH						
25.45	26.7	1.25	R						
26.7	27.15	0.45	CBSH						
27.15	28.2	1.05	R						
28.2	28.4	0.2	CR						
28.4	28.45	0.05	FAULT	PROBABLE					
28.45	28.6	0.15	CR						
28.6	29.9	1.3	R						
29.9	30	0.1	CBSH						
30	30.5	0.5	DC	DU					
30.5	33.1	2.6	C	DU					
33.1	33.4	0.3	FAULT	POSSIBLE					
33.4	33.9	0.5	DC	DU					
33.9	46.5	12.6	R						
46.5	46.65	0.15	CBSH						
46.65	48.1	1.45	R						
48.1	48.35	0.25	FAULT	PROBABLE					
48.35	48.55	0.2	DC	DU					
48.55	49.95	1.4	C	DU					
49.95	50.2	0.25	FAULT	POSSIBLE					
50.2	50.7	0.5	C	DU					
50.7	50.95	0.25	DC	DU					
50.95	51.15	0.2	CBSH						
51.15	55.45	4.3	R						
55.45	55.8	0.35	CBSH	DR					
55.8	58.3	2.5	R						
58.3	58.5	0.2	CBSH	D					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
58.5	76.05	17.55	R						
76.05	76.2	0.15	IRST						
76.2	76.4	0.2	R						
76.4	76.5	0.1	IRST						
76.5	78	1.5	R						
78	78.1	0.1	FAULT	POSSIBLE					
78.1	99	20.9	R						
99	99.1	0.1	FAULT	POSSIBLE					
99.1	119.5	20.4	R						
119.5	119.75	0.25	CBSH						
119.75	121.8	2.05	R						
121.8	122.05	0.25	CR						
122.05	122.4	0.35	FAULT	PROBABLE					
122.4	128.15	5.75	R	Cowmoose					
128.15	128.4	0.25	CBSH	Cowmoose					
128.4	151.7	23.3	R	Cowmoose					
151.7	152.7	1	R	Green Marker					
152.7	164.35	11.65	R	Bullmoose					
164.35	164.65	0.3	IRST	Bullmoose					
164.65	168.5	3.85	R	Bullmoose					
168.5	175.4	6.9	R	Bluesky					
175.4	184	8.6	R						
184	184.65	0.65	CR	A					
184.65	185.7	1.05	R						
185.7	185.8	0.1	FAULT	POSSIBLE					
185.8	190.7	4.9	R						
190.7	191.15	0.45	CR	A					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
191.15	200.5	9.35	R						
200.5	200.9	0.4	CBSH						
200.9	204.4	3.5	R						
204.4	204.5	0.1	CBSH						
204.5	204.85	0.35	DC	B					
204.85	205.2	0.35	FAULT	PROBABLE					
205.2	206.1	0.9	CBSH						
206.1	206.25	0.15	DC	B					
206.25	208.05	1.8	C	B					
208.05	208.15	0.1	DC	B					
208.15	208.3	0.15	CBSH						
208.3	226	17.7	R						
226	226.5	0.5	IRST						
226.5	234.6	8.1	R						
234.6	234.9	0.3	IRST						
234.9	240.75	5.85	R						
HUD13-08									
From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	18.6	18.6	DRIFT	DRIFT	556446.23	6147895.16	1311.11	213	yes
18.6	19.7	1.1	R						
19.7	20.4	0.7	CBSH						
20.4	25.7	5.3	R						
25.7	26.6	0.9	CBSH						
26.6	29.7	3.1	R						
29.7	29.85	0.15	CBSH						
29.85	30	0.15	FAULT	POSSIBLE					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
30	30.2	0.2	C						
30.2	30.5	0.3	CR						
30.5	31.65	1.15	R						
31.65	32.45	0.8	CBSH						
32.45	32.55	0.1	CR						
32.55	32.8	0.25	DC	C					
32.8	32.95	0.15	C	C					
32.95	33.3	0.35	DC	C					
33.3	33.5	0.2	CR	C					
33.5	33.75	0.25	DC	C					
33.75	34.05	0.3	CBSH						
34.05	34.55	0.5	R						
34.55	35.2	0.65	CBSH						
35.2	35.8	0.6	R						
35.8	36.05	0.25	CBSH						
36.05	36.65	0.6	C	DU					
36.65	36.85	0.2	DC	DU					
36.85	36.95	0.1	C	DU					
36.95	37.25	0.3	DC	DU					
37.25	37.45	0.2	R						
37.45	37.7	0.25	CR						
37.7	37.95	0.25	C	DR					
37.95	38.45	0.5	CBSH						
38.45	38.75	0.3	DC	D					
38.75	39.7	0.95	C	D					
39.7	40.1	0.4	CBSH						
40.1	40.8	0.7	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
40.8	40.95	0.15	CBSH						
40.95	41.6	0.65	R						
41.6	41.8	0.2	CBSH						
41.8	44.15	2.35	R						
44.15	44.9	0.75	CBSH						
44.9	45.6	0.7	R						
45.6	46.15	0.55	CBSH						
46.15	46.5	0.35	FAULT	POSSIBLE					
46.5	47.1	0.6	CBSH						
47.1	54.7	7.6	R						
54.7	55.4	0.7	CBSH						
55.4	56.7	1.3	R						
56.7	57.6	0.9	CBSH						
57.6	58.45	0.85	R						
58.45	58.9	0.45	CBSH						
58.9	59.5	0.6	R						
59.5	59.9	0.4	IRST						
59.9	62.5	2.6	R						
62.5	62.75	0.25	CBSH						
62.75	63.95	1.2	C	EU					
63.95	64.35	0.4	C	E					
64.35	64.5	0.15	DC	E					
64.5	64.8	0.3	C	E					
64.8	65.15	0.35	CR						
65.15	65.35	0.2	CBSH						
65.35	65.9	0.55	R						
65.9	66.65	0.75	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
66.65	68.75	2.1	R						
68.75	69.15	0.4	CBSH						
69.15	73.35	4.2	R						
73.35	73.8	0.45	CR						
73.8	75.4	1.6	R						
75.4	75.7	0.3	IRST						
75.7	77.5	1.8	R						
77.5	77.95	0.45	CBSH						
77.95	81.85	3.9	R						
81.85	82.8	0.95	CBSH						
82.8	83.1	0.3	CR	EF					
83.1	84	0.9	CBSH						
84	86.9	2.9	R						
86.9	87.3	0.4	CBSH						
87.3	87.7	0.4	R						
87.7	88.15	0.45	CBSH						
88.15	89.4	1.25	R						
89.4	90.8	1.4	CBSH						
90.8	91	0.2	R						
91	92.15	1.15	CBSH						
92.15	93.2	1.05	R						
93.2	93.4	0.2	CBSH						
93.4	93.7	0.3	R						
93.7	93.85	0.15	CBSH						
93.85	94.05	0.2	CR	FU					
94.05	94.3	0.25	CBSH						
94.3	96.25	1.95	R						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
96.25	96.75	0.5	DC	F					
96.75	98.05	1.3	R						
98.05	98.1	0.05	FAULT	POSSIBLE					
98.1	98.4	0.3	CBSH						
98.4	98.6	0.2	CR	F					
98.6	98.8	0.2	CBSH						
98.8	99.75	0.95	R						
99.75	100.15	0.4	CBSH						
100.15	108.85	8.7	R						
108.85	108.95	0.1	CBSH						
108.95	114.2	5.25	R						
114.2	114.4	0.2	CBSH	GU					
114.4	117.15	2.75	R						
117.15	117.4	0.25	CBSH	GM					
117.4	118	0.6	R						
118	118.45	0.45	CBSH	GL					
118.45	133	14.55	R						
133	133.5	0.5	CBSH	H					
133.5	146.5	13	R						
146.5	146.8	0.3	CBSH						
146.8	147	0.2	CR						
147	147.45	0.45	C	I					
147.45	147.65	0.2	CBSH						
147.65	160.6	12.95	R						
160.6	160.8	0.2	CBSH						
160.8	161	0.2	CR	IJ					
161	161.3	0.3	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
161.3	175.95	14.65	R						
175.95	176.15	0.2	CBSH						
176.15	177.6	1.45	R						
177.6	178.45	0.85	CBSH						
178.45	178.85	0.4	DC						
178.85	179.5	0.65	CBSH						
179.5	179.8	0.3	CR						
179.8	180.05	0.25	C						
180.05	180.4	0.35	CR						
180.4	181.3	0.9	CBSH						
181.3	181.8	0.5	C						
181.8	182.85	1.05	CBSH						
182.85	183.5	0.65	C	J					
183.5	183.6	0.1	DC	J					
183.6	183.9	0.3	C	J					
183.9	184.3	0.4	DC	J					
184.3	186.25	1.95	C	J					
186.25	186.5	0.25	CR	J					
186.5	186.75	0.25	DC	J					
186.75	189	2.25	C	J					
189	189.25	0.25	DC	J					
189.25	189.55	0.3	CBSH	J					
189.55	189.95	0.4	R	J					
189.95	190.9	0.95	C	J					
190.9	191	0.1	DC	J					
191	191.15	0.15	C	J					
191.15	191.3	0.15	DC	J					

Lithological interpretation of selected historic boreholes: **Table A-3 (continued)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
191.3	191.9	0.6	C	J					
191.9	192.85	0.95	FAULT	POSSIBLE					
192.85	192.9	0.05	DC						
192.9	193.15	0.25	C						
193.15	193.65	0.5	CBSH						
193.65	193.8	0.15	R						
193.8	194.1	0.3	CBSH						
194.1	194.25	0.15	CR						
194.25	194.6	0.35	C						
194.6	194.75	0.15	CR						
194.75	195	0.25	CBSH						
195	195.25	0.25	CR						
195.25	195.4	0.15	DC						
195.4	195.65	0.25	CR						
195.65	196.2	0.55	CBSH						
196.2	196.3	0.1	CR						
196.3	196.9	0.6	DC	J					
196.9	197.1	0.2	C	J					
197.1	197.2	0.1	DC	J					
197.2	197.45	0.25	C	J					
197.45	197.6	0.15	FAULT	POSSIBLE					
197.6	197.95	0.35	C	J					
197.95	198.4	0.45	DC	J					
198.4	198.8	0.4	C	J					
198.8	199	0.2	CBSH						
199	199.6	0.6	R						
199.6	199.85	0.25	CBSH						

Lithological interpretation of selected historic boreholes: **Table A-3 (concluded)**

From	To	Thick	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
199.85	200.1	0.25	R						
200.1	200.2	0.1	CBSH						
200.2	200.35	0.15	CR						
200.35	200.7	0.35	CBSH						
200.7	201.9	1.2	R						
201.9	202.1	0.2	CBSH						
202.1	202.5	0.4	R						
202.5	203.5	1	CBSH						
203.5	203.85	0.35	R						
203.85	204.15	0.3	CBSH						
204.15	204.45	0.3	DC	JK					
204.45	204.6	0.15	C	JK					
204.6	204.9	0.3	DC	JK					
204.9	205.15	0.25	CR						
205.15	205.4	0.25	CBSH						
205.4	209.85	4.45	R						
209.85	210.2	0.35	CBSH						
210.2	210.5	0.3	CR						
210.5	210.72	0.22	R						

file source: 200329a.doc

Lithological interpretation of current boreholes: **Table A-4**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
MW20-01D									
From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	15.4	15.4	DRIFT	DRIFT	556703.80	6147634.83	1300.34	150.07	Yes
15.4	18	2.6	R						
18	18.25	0.25	CBSH						
18.25	18.4	0.15	CR						
18.4	18.65	0.25	CBSH						
18.65	19.4	0.75	R						
19.4	20.75	1.35	CBSH						
20.75	21.2	0.45	R						
21.2	21.35	0.15	CBSH						
21.35	21.85	0.5	R						
21.85	22	0.15	CBSH						
22	22.15	0.15	CR	B					
22.15	22.25	0.1	CBSH	B					
22.25	22.45	0.2	CR	B					
22.45	22.6	0.15	DC	B					
22.6	22.8	0.2	CR	B					
22.8	22.95	0.15	DC	B					
22.95	23.35	0.4	CR	B					
23.35	23.7	0.35	CBSH						
23.7	23.9	0.2	CR						
23.9	24.1	0.2	CBSH						
24.1	24.65	0.55	R						
24.65	24.75	0.1	CBSH						
24.75	24.9	0.15	R						

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
24.9	25	0.1	CBSH						
25	25.65	0.65	R						
25.65	25.8	0.15	CBSH						
25.8	27.5	1.7	R						
27.5	27.65	0.15	CBSH						
27.65	28.6	0.95	R						
28.6	28.8	0.2	CBSH						
28.8	29.3	0.5	R						
29.3	29.4	0.1	CBSH						
29.4	29.5	0.1	R						
29.5	29.7	0.2	CBSH						
29.7	30.2	0.5	R						
30.2	30.5	0.3	CBSH						
30.5	30.75	0.25	R						
30.75	30.85	0.1	CBSH						
30.85	31.25	0.4	R						
31.25	31.5	0.25	CBSH						
31.5	31.95	0.45	R						
31.95	32.7	0.75	CBSH						
32.7	32.95	0.25	R						
32.95	33.25	0.3	CBSH						
33.25	34.4	1.15	R						
34.4	34.55	0.15	CBSH						
34.55	34.7	0.15	R						
34.7	34.9	0.2	CBSH						
34.9	35	0.1	CR	CT					
35	35.1	0.1	CBSH	CT					

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
35.1	35.25	0.15	CR	CT					
35.25	35.7	0.45	CBSH						
35.7	36.45	0.75	R						
36.45	36.6	0.15	CBSH						
36.6	36.8	0.2	CR						
36.8	37.35	0.55	R						
37.35	37.5	0.15	DC	CU					
37.5	37.6	0.1	CBSH						
37.6	37.7	0.1	CR						
37.7	37.9	0.2	CBSH						
37.9	38.05	0.15	C	C					
38.05	38.3	0.25	DC	C					
38.3	38.7	0.4	CBSH						
38.7	39	0.3	R						
39	39.1	0.1	CBSH	DU					
39.1	40.55	1.45	R						
40.55	40.75	0.2	CBSH						
40.75	41.05	0.3	CR	DR					
41.05	41.35	0.3	DC	D					
41.35	41.7	0.35	C	D					
41.7	42	0.3	DC	D					
42	42.25	0.25	C	D					
42.25	42.4	0.15	CR	D					
42.4	42.55	0.15	DC	D					
42.55	43.4	0.85	R						
43.4	43.6	0.2	CR	DE					
43.6	44	0.4	DC	DE					

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
44	57.6	13.6	R						
57.6	57.9	0.3	CBSH						
57.9	58.1	0.2	CR	EU					
58.1	58.45	0.35	DC	EU					
58.45	58.7	0.25	CR	EU					
58.7	59.1	0.4	CBSH						
59.1	59.5	0.4	CR	E					
59.5	60.75	1.25	C	E					
60.75	61	0.25	DC	E					
61	61.25	0.25	CR	E					
61.25	61.6	0.35	CBSH						
61.6	62.4	0.8	R						
62.4	62.6	0.2	CR	FU					
62.6	62.7	0.1	DC	FU					
62.7	62.9	0.2	C	FU					
62.9	63.5	0.6	CR	FU					
63.5	76.4	12.9	R						
76.4	76.55	0.15	CBSH						
76.55	87.5	10.95	R						
87.5	87.75	0.25	CBSH						
87.75	88.4	0.65	CR	FM					
88.4	88.95	0.55	CBSH						
88.95	89.45	0.5	CR	FL					
89.45	89.8	0.35	CBSH						
89.8	99.4	9.6	R						
99.4	99.6	0.2	CBSH						
99.6	112.75	13.15	R						

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
112.75	113	0.25	CBSH	GU					
113	113.55	0.55	R						
113.55	113.8	0.25	CBSH						
113.8	114.05	0.25	CR	GM					
114.05	114.25	0.2	CR	GL					
114.25	114.7	0.45	CBSH						
114.7	114.8	0.1	R						
114.8	115	0.2	CBSH						
115	115.3	0.3	R						
115.3	115.5	0.2	CBSH						
115.5	115.65	0.15	R						
115.65	116.2	0.55	CBSH						
116.2	119.1	2.9	R						
119.1	120.6	1.5	CBSH						
120.6	120.7	0.1	CR	H					
120.7	121.8	1.1	CBSH						
121.8	130.4	8.6	R						
130.4	131.05	0.65	CBSH						
131.05	131.3	0.25	DC	I					
131.3	131.8	0.5	C	I					
131.8	131.95	0.15	DC	IJ					
131.95	132.85	0.9	C	IJ					
132.85	133	0.15	FAULT	POSSIBLE					
133	135.7	2.7	C	J					
135.7	135.9	0.2	DC	J					
135.9	149.55	13.65	R						
149.55	150.07	0.52	ND						

Lithological interpretation of current boreholes: **Table A-4 (continued)**

MW20-01S									
From (m)	To (m)	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	15.7	15.7	DRIFT	DRIFT	556703.76	6147642.16	1300.74	61.68	No
15.7	16.05	0.35	R						
16.05	16.2	0.15	IRST						
16.2	16.7	0.5	R						
16.7	17	0.3	CBSH						
17	18.2	1.2	R						
18.2	18.45	0.25	CBSH						
18.45	21.05	2.6	R						
21.05	21.6	0.55	CBSH						
21.6	22.25	0.65	R						
22.25	22.8	0.55	CBSH						
22.8	27.1	4.3	R						
27.1	27.3	0.2	CBSH						
27.3	27.4	0.1	CR						
27.4	27.55	0.15	CBSH						
27.55	27.8	0.25	CR	CT					
27.8	27.9	0.1	CBSH	CT					
27.9	28.05	0.15	CR	CT					
28.05	28.2	0.15	R						
28.2	28.7	0.5	CBSH						
28.7	29	0.3	R						
29	29.15	0.15	CR						
29.15	29.6	0.45	CBSH						
29.6	29.7	0.1	CR						
29.7	30.3	0.6	CBSH						
30.3	30.45	0.15	CR						

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
30.45	31.8	1.35	CBSH						
31.8	32	0.2	DC	CU					
32	32.1	0.1	C	CU					
32.1	32.4	0.3	CR						
32.4	32.85	0.45	CBSH						
32.85	33.05	0.2	ASH						
33.05	33.3	0.25	CR						
33.3	33.6	0.3	DC	C					
33.6	33.85	0.25	CR						
33.85	35.3	1.45	R						
35.3	35.5	0.2	CBSH						
35.5	37.4	1.9	R						
37.4	37.5	0.1	CR						
37.5	37.7	0.2	R						
37.7	38	0.3	CBSH						
38	38.1	0.1	CR						
38.1	38.3	0.2	CBSH						
38.3	38.45	0.15	CR						
38.45	38.7	0.25	DC	DR					
38.7	38.95	0.25	CR						
38.95	39.4	0.45	CBSH						
39.4	39.65	0.25	CR						
39.65	39.8	0.15	C	D					
39.8	40.05	0.25	DC	D					
40.05	40.3	0.25	CR	D					
40.3	40.4	0.1	DC	D					
40.4	40.95	0.55	CR						

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
40.95	41.4	0.45	CBSH						
41.4	41.65	0.25	R						
41.65	41.8	0.15	CBSH						
41.8	42.2	0.4	R						
42.2	42.3	0.1	CBSH						
42.3	42.55	0.25	DC	DE					
42.55	42.95	0.4	C	DE					
42.95	43.2	0.25	DC	DE					
43.2	43.4	0.2	CBSH						
43.4	61.15	17.75	R						
61.15	61.68	0.53	ND						
MW20-02D									
From (m)	To (m)	Thick (m)	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	23.6	23.6	DRIFT	DRIFT	556824.72	6149847.64	1211.53	153.15	Yes
23.6	33.1	9.5	R						
33.1	33.65	0.55	C	BR					
33.65	34.55	0.9	R						
34.55	34.7	0.15	CBSH						
34.7	36.2	1.5	C	BU					
36.2	36.65	0.45	DC	BM					
36.65	39.4	2.75	C	BM					
39.4	39.5	0.1	CBSH						
39.5	39.95	0.45	R						
39.95	40.7	0.75	DC	BL					
40.7	41.1	0.4	CBSH						
41.1	41.5	0.4	CR						

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
41.5	41.9	0.4	CBSH						
41.9	43.1	1.2	R						
43.1	44.6	1.5	R						
44.6	44.85	0.25	CBSH						
44.85	49.25	4.4	R						
49.25	49.7	0.45	CBSH						
49.7	50.2	0.5	R						
50.2	50.5	0.3	CBSH						
50.5	50.9	0.4	R						
50.9	51.15	0.25	CBSH						
51.15	77.75	26.6	R						
77.75	78.05	0.3	IRST						
78.05	79.05	1	R						
79.05	79.4	0.35	CR						
79.4	81.95	2.55	C	CU					
81.95	82.2	0.25	DC	CU					
82.2	82.4	0.2	CBSH						
82.4	82.6	0.2	DC	C					
82.6	83.4	0.8	C	C					
83.4	83.5	0.1	DC	C					
83.5	83.9	0.4	CR						
83.9	84.2	0.3	CBSH						
84.2	124.15	39.95	R						
124.15	124.3	0.15	CBSH						
124.3	124.5	0.2	DC	DU					
124.5	124.75	0.25	CR						
124.75	124.95	0.2	R						

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
124.95	125.1	0.15	CBSH						
125.1	125.4	0.3	C	DR					
125.4	125.5	0.1	DC	DR					
125.5	125.7	0.2	CR	DR					
125.7	125.85	0.15	DC	DR					
125.85	126.15	0.3	C	DR					
126.15	126.25	0.1	CR						
126.25	128.2	1.95	R						
128.2	128.3	0.1	CBSH						
128.3	128.5	0.2	DC						
128.5	128.7	0.2	CBSH						
128.7	129	0.3	R						
129	129.15	0.15	CR						
129.15	130.05	0.9	C	D					
130.05	130.25	0.2	CR						
130.25	130.4	0.15	CBSH						
130.4	130.9	0.5	CR						
130.9	131.05	0.15	CBSH						
131.05	132.85	1.8	R						
132.85	133.3	0.45	CBSH	DE					
133.3	133.45	0.15	CR	DE					
133.45	133.65	0.2	CBSH	DE					
133.65	138.1	4.45	R						
138.1	138.45	0.35	CBSH						
138.45	139.75	1.3	R						
139.75	140	0.25	CBSH						
140	140.15	0.15	CR						

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
140.15	140.5	0.35	CBSH						
140.5	141.25	0.75	R						
141.25	141.45	0.2	CR	EU					
141.45	141.65	0.2	DC	EU					
141.65	142.1	0.45	CR	EU					
142.1	142.35	0.25	CBSH						
142.35	142.85	0.5	R						
142.85	143.05	0.2	CBSH						
143.05	144.6	1.55	C	E					
144.6	144.8	0.2	DC	E					
144.8	145.35	0.55	CBSH						
145.35	146.35	1	R						
146.35	146.6	0.25	CBSH						
146.6	146.9	0.3	C	EF					
146.9	147	0.1	DC	EF					
147	147.15	0.15	C	EF					
147.15	147.3	0.15	DC	EF					
147.3	147.5	0.2	CR						
147.5	152.6	5.1	R						
152.6	153.15	0.55	ND						
MW20-02S									
From (m)	To (m)	Thick (m)	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	20.9	20.9	DRIFT	DRIFT	556833.52	6149848.27	1210.97	37.34	No
20.9	32.9	12							
32.9	33.2	0.3	FAULT	POSSIBLE					
33.2	37.34	4.14	R						

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
VW20-01									
From (m)	To (m)	Thick (m)	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
0	5.3	5.3	DRIFT	DRIFT	557121.36	6148270.48	1285.20	249.86	No
5.3	9.75	4.45	R						
9.75	10.1	0.35	CBSH						
10.1	10.2	0.1	R						
10.2	10.35	0.15	CBSH						
10.35	12.4	2.05	R						
12.4	12.65	0.25	CBSH						
12.65	13.35	0.7	R						
13.35	13.8	0.45	CBSH						
13.8	13.95	0.15	R						
13.95	14.2	0.25	CBSH						
14.2	14.5	0.3	R						
14.5	14.7	0.2	CR						
14.7	15.75	1.05	C	EU					
15.75	18.4	2.65	C	E					
18.4	18.8	0.4	CR						
18.8	25.05	6.25	R						
25.05	25.3	0.25	CBSH						
25.3	25.5	0.2	CR						
25.5	25.85	0.35	CBSH						
25.85	26	0.15	CR						
26	26.15	0.15	DC						
26.15	26.45	0.3	CR						
26.45	26.6	0.15	CBSH						
26.6	26.85	0.25	DC	EF					

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
26.85	27	0.15	C	EF					
27	27.45	0.45	DC	EF					
27.45	27.9	0.45	CR						
27.9	35.1	7.2	R						
35.1	35.2	0.1	CBSH						
35.2	54.55	19.35	R						
54.55	54.8	0.25	CR						
54.8	55.25	0.45	C	FU					
55.25	55.5	0.25	DC	FU					
55.5	55.65	0.15	CR						
55.65	55.85	0.2	DC	F					
55.85	56.7	0.85	C	F					
56.7	57	0.3	CR						
57	57.6	0.6	CBSH						
57.6	58	0.4	R						
58	58.3	0.3	CBSH						
58.3	58.5	0.2	CR						
58.5	58.75	0.25	CBSH						
58.75	60.6	1.85	R						
60.6	60.8	0.2	CBSH						
60.8	61.15	0.35	DC	FG					
61.15	61.35	0.2	CBSH						
61.35	62.5	1.15	R						
62.5	62.95	0.45	CBSH						
62.95	68.1	5.15	R						
68.1	68.25	0.15	CBSH						
68.25	76	7.75	R						

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
76	77.35	1.35	CBSH						
77.35	77.6	0.25	R						
77.6	78.65	1.05	CBSH						
78.65	81.5	2.85	R						
81.5	81.9	0.4	CBSH						
81.9	82	0.1	CR						
82	82.4	0.4	DC	GU					
82.4	82.7	0.3	CR						
82.7	82.85	0.15	DC	GM					
82.85	84.65	1.8	C	GM					
84.65	86.55	1.9	C	GL					
86.55	86.7	0.15	DC	GL					
86.7	87.15	0.45	CBSH						
87.15	87.85	0.7	R						
87.85	88.3	0.45	CBSH						
88.3	90.5	2.2	R						
90.5	91	0.5	CR	H					
91	111.35	20.35	R						
111.35	111.7	0.35	IRST						
111.7	132.5	20.8	R						
132.5	132.8	0.3	DC	I					
132.8	133.3	0.5	C	I					
133.3	133.5	0.2	DC	I					
133.5	140.5	7	R						
140.5	140.7	0.2	CR	IJ					
140.7	140.9	0.2	FAULT	POSSIBLE					
140.9	151.85	10.95	R						

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
151.85	152	0.15	CBSH						
152	152.25	0.25	DC	GU					
152.25	153.4	1.15	C	GM					
153.4	155.2	1.8	C	GL					
155.2	155.3	0.1	DC	GL					
155.3	155.4	0.1	FAULT	POSSIBLE					
155.4	155.5	0.1	DC	GL					
155.5	155.7	0.2	CBSH						
155.7	156	0.3	DC						
156	156.4	0.4	CR						
156.4	156.7	0.3	DC						
156.7	156.9	0.2	CR						
156.9	157.05	0.15	DC						
157.05	157.5	0.45	CBSH						
157.5	157.9	0.4	C	H					
157.9	158	0.1	DC	H					
158	158.2	0.2	CBSH						
158.2	159.6	1.4	R						
159.6	160	0.4	IRST						
160	178.2	18.2	R						
178.2	178.4	0.2	CBSH	I					
178.4	178.65	0.25	R						
178.65	178.7	0.05	CBSH						
178.7	185.95	7.25	R						
185.95	186.15	0.2	CR						
186.15	186.3	0.15	DC	IJ					
186.3	186.4	0.1	FAULT	POSSIBLE					

Lithological interpretation of current boreholes: **Table A-4 (continued)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
186.4	193.6	7.2	R						
193.6	193.9	0.3	CBSH						
193.9	194.2	0.3	CR						
194.2	194.35	0.15	CBSH						
194.35	194.45	0.1	CR						
194.45	195.05	0.6	CBSH						
195.05	195.3	0.25	DC	JU					
195.3	196.9	1.6	C	JU					
196.9	197	0.1	DC	JU					
197	197.9	0.9	R						
197.9	198.2	0.3	CBSH						
198.2	198.7	0.5	C	JM					
198.7	200.75	2.05	R						
200.75	200.95	0.2	CR						
200.95	201.3	0.35	DC	JL					
201.3	201.5	0.2	CR	JL					
201.5	202.5	1	C	JL					
202.5	202.8	0.3	DC	JL					
202.8	203.4	0.6	CBSH						
203.4	203.7	0.3	CR						
203.7	203.9	0.2	DC						
203.9	204.4	0.5	CBSH						
204.4	204.8	0.4	CR						
204.8	205.2	0.4	CBSH						
205.2	210.15	4.95	R						
210.15	210.4	0.25	CBSH						
210.4	210.85	0.45	DC	JK					

Lithological interpretation of current boreholes: **Table A-4 (concluded)**

From	To	Thickness	Lithology	Bed name	Easting	Northing	Collar	TD	Revised?
210.85	211	0.15	C	JK					
211	211.2	0.2	DC	JK					
211.2	211.4	0.2	CBSH						
211.4	226.4	15	R						
226.4	226.6	0.2	ASH						
226.6	227.3	0.7	R						
227.3	227.5	0.2	CBSH						
227.5	227.6	0.1	CR						
227.6	227.9	0.3	CBSH						
227.9	228.55	0.65	R						
228.55	228.8	0.25	CBSH						
228.8	228.95	0.15	CR						
228.95	229.2	0.25	C						
229.2	229.45	0.25	CBSH						
229.45	231.2	1.75	R						
231.2	231.55	0.35	CBSH						
231.55	242.8	11.25	R						
242.8	243	0.2	CBSH						
243	245.2	2.2	R						
245.2	245.45	0.25	CBSH						
245.45	246.2	0.75	DC	KU					
246.2	247	0.8	C	KU					
247	247.7	0.7	CBSH						
247.7	248.3	0.6	DC	KL					
248.3	248.6	0.3	CBSH	KL					
248.6	248.8	0.2	DC	KL					
248.8	249	0.2	CBSH						
249	249.35	0.35	R						
249.35	249.86	0.51	ND						

Appendix B Sample inventory

Samples of drill cuttings were collected from coaly or carbonaceous zones encountered in three of the groundwater-investigation boreholes: VM20-01, MW20-01D, and MW20-02D. Sample depths and intervals are as recorded by Lorax Environmental staff. Assignment of coal bed names is by the author of this report, based upon comparison with gamma-density geophysical logs of the boreholes. As of the date of report submission, samples have not yet been sent for analysis.

Sample inventory of drill cuttings: **Table B-1**

Borehole	*Sample date*	*Sample number*	*Coal bed*	*From (feet)*	*To (feet)*	*From (metres)*	*To (metres)*	*Sample date*	*Sampler*	*Notes*
VW 20-01	18-Mar-20	1		60		18.3		18-Mar-20	JH	
	18-Mar-20	2		65		19.8		18-Mar-20	JH	
	18-Mar-20	3		80		25.9		18-Mar-20	JH	
	18-Mar-20	4		180		54.9		18-Mar-20	JH	
	20-Mar-20	5		270		82.3		20-Mar-20	JH	
	20-Mar-20	6		275		83.8		20-Mar-20	JH	
	20-Mar-20	7		280		85.3		20-Mar-20	JH	
	20-Mar-20	8		285		86.9		20-Mar-20	JH	siltstone with some coal
	20-Mar-20	9		290		88.4		20-Mar-20	JH	siltstone with some coal
	22-Mar-20	10		435		132.6		22-Mar-20	JH	
	26-Mar-20	11		515		157.0		26-Mar-20	JH	
	26-Mar-20	12		520		158.5		26-Mar-20	JH	
	30-Mar-20	13		645		196.6		30-Mar-20	JH	
	30-Mar-20	14		665		202.7		30-Mar-20	JH	
MW20-01D	18-Mar-20	1		60	62	18.3	18.9	18-Mar-20	CB	
	18-Mar-20	2		70	75	21.3	22.9	18-Mar-20	CB	
	18-Mar-20	3		75	80	22.9	24.4	18-Mar-20	CB	
	18-Mar-20	4		136	139	41.5	42.4	18-Mar-20	CB	
	18-Mar-20	5		195	200	59.4	61.0	18-Mar-20	CB	
	18-Mar-20	6		200	205	61.0	62.5	18-Mar-20	CB	
	18-Mar-20	7		205	210	62.5	64.05	18-Mar-20	CB	
	18-Mar-20	8		289	296	88.1	90.2	18-Mar-20	CB	

Sample inventory of drill cuttings: **Table B-1 (concluded)**

Borehole	*Sample date*	*Sample number*	*Coal bed*	*From (feet)*	*To (feet)*	*From (metres)*	*To (metres)*	*Sample date*	*Sampler*	*Notes*
MW20-01D (continued)	20-Mar-20	9		400	402	121.9	122.5	20-Mar-20	CB	
	20-Mar-20	10		430	440	131.1	134.1	20-Mar-20	CB	
	21-Mar-20	11		445	450	135.6	137.2	21-Mar-20	CB	
MW20-02D	2-Apr-20	1		115	120	35.1	36.6	2-Apr-20	CB	
	4-Apr-20	2		258	260	78.6	79.2	4-Apr-20	CB	
	4-Apr-20	3		265		80.8		4-Apr-20	CB	
	4-Apr-20	4		270		82.3		4-Apr-20	CB	
	4-Apr-20	5		275		83.8		4-Apr-20	CB	
	5-Apr-20	6		406	410	123.7	125.0	5-Apr-20	JY	
	5-Apr-20	7		415	418	126.5	127.4	5-Apr-20	JY	
	5-Apr-20	8		436	440	132.9	134.1	5-Apr-20	JY	
	5-Apr-20	9		442	445	134.7	135.6	5-Apr-20	JY	
	5-Apr-20	10		456	460	139.0	140.2	5-Apr-20	JY	
	5-Apr-20	11		472	478	143.9	145.7	5-Apr-20	JY	
	6-Apr-20	12		491	495	149.7	150.9	6-Apr-20	JY	

Note: number of samples is 37. Samplers' names are as follow: CB: Chris Borque; JH: Jordi Helsen JY: Joshua Young

Appendix C: Daily exploration reports

Following in the hardcopy version of this report are daily exploration reports issued to Conuma by Jerry Holmes P. Geo. on behalf of APEX Geoscience Ltd. In the digital version of this report, daily exploration reports are provided as PDF documents.

Daily reports presented in this appendix commence with March 15th and continue until April 8th, inclusive. Subsequent reports will be provided with the next coal assessment report for Hudette Main.

Appendix D: Daily environmental monitoring reports

Following in the hardcopy version of this report are copiously-illustrated daily environmental monitoring reports issued to Conuma by environmental monitors Laura Beer, Franz Kirschbaum, and Nola Chaplin. on behalf of Plan B Technical Services Inc. In the digital version of this report, daily environmental reports are provided as PDF documents.

Daily reports presented in this appendix commence with March 19th and continue until April 8th, inclusive. Subsequent reports will be provided with the next coal assessment report for Hudette Main.