April 8, 2022

DTC File No: J22-02110

Okanagan Gondola Development Highway 97 & Bailey Road Vernon, BC C/O Ridge North America

Attention: Sean Wilson, Development Manager

Re: Preliminary Sewage Dispersal System Assessment Okanagan Gondola Development Bailey Road, Vernon, BC

DeansTech Consulting Ltd. (DTC) was retained by Okanagan Gondola Development, property owner, to comment on the feasibility for sewage dispersal to ground for the above noted project. We understand that the owner, plans to build a tourist gondola on the property and there will be three stations. The main base station will be located near the lower end of the property, the mid station will be located in the upper south portion of the property and the top station will be located in the northwest part of the property. The property is located with-in the North Okanagan Regional District boundary. We understand there will be washrooms for visitors and employees at each of the station locations. We also understand there will be food amenities available at the stations.

DTC attended the site on March 11, 2022 to review the property boundaries and to view the locations for the stations. We attended the site again on March 17 to view the excavation of testpits to examine the soil profile at various locations across the site.

Property Size: 120.004 hectares Legal Description: PART N1/2, SECTION 36, TOWNSHIP 14, OSOYOOS DIV OF YALE LAND DISTRICT, EXCEPT PLAN B826 37599 H823 Folio: 19-722-02090.000 PID: 013-561-235

General Property Description

The property is presently undeveloped and is mostly in a natural state with the exception of a gravel access road, an overhead powerline and an underground gas line that crosses the property. The gravel access road traverses the property from the northeast part of the lot winding its way up to the southwest area of the lot. Along the access road there are several areas where the road cut is exposed and in most areas, the exposed material appears to be granular soil in nature. Some of the road cuts were examined during the site visit and found to contain loamy sand and gravel. There is a gravel extraction quarry located on the adjacent property to the south. Along the road cut there were zones of bedrock outcropping. Areas of bedrock will be avoided when considering potential sewage dispersal areas. While areas of sufficient soil depth of greater than 1m will be considered during the next phase of assessments.

The Province of British Columbia Geographic Soil Survey Map dated July 16, 2018, was consulted regarding the dominant soils found on the property. Based on the Soil Survey Map the site soils are classified as Orthic Black Chernozem and the soil material is primarily composed of mineral particles and is considered well drained. The area consists of "morainal material (till) deposited by glacial ice: a mixture of boulders, sand, silt, and clay". Typically, soils encountered in this area have a moderately coarse texture and may consist of loamy sand & sand & gravel deposits.

During the site visit on March 17 there were 14 testpits excavated to various depths across the property but mainly concentrated near the proposed stations. The soils observed in the testpits were logged by Aaron Trenn, E.I.T. of Geopacific Consultants Ltd. The soil logs were provided to DTC for consideration of ground dispersal of treated effluent. The testpits were dug to depths ranging from 0.2m to 2.8m below grade. The soil is described by Mr. Trenn as being "Gravel and Sand, angular gravel to cobble, coarse grained sand, some silt, tan brown, damp, compact to dense with depth." The plan showing the testpit locations and the soil logs are presented in the geotechnical report provided by Geopacific and they are attached to this report for reference.

The soil types observed on the property during the initial testpit investigation are considered suitable to ground dispersal of treated sewage wastewater. Based on the soil type visual description we have estimated the soil permeability to be in the range of 550 to 2000 mm/day. This is equivalent to a 4 to 15 minute percolation rate. Detailed soil testing will be carried out during the next phase of assessment to determine the actual hydraulic loading rate near each of the three stations.

During the site visits we did not observe any issues with regard to the function of an onsite sewage treatment and dispersal system for the proposed operation. We understand onsite water wells will likely be used for the domestic water supply. We suggest the locations of the wells be coordinated with the potential location of the sewage dispersal fields.

Photo #1 – testpit location bottom station.



Photo #2 – bottom station testpit 2.0m deep with sand & gravel



DTC 10553 Okanagan Centre Road West, Lake Country, B.C. V4V 2H8 Phone: (250) 766-0533 þ Fax: (250) 766-0513 þ Cell: (250) 317-6728 þ e-mail: deans1@shaw.ca



Photo #3 – exposed sand & gravel in road cut near lower portion of property.

Photo #4 – possible dispersal field location for the mid station.





Photo #5 – testpit near the mid station, 2.8 m deep.

Photo #6 – testpit near upper station, 1.8m below grade.





Recommendations

It is recommended that a detailed assessment be carried out to determine the most suitable locations for the sewage systems at each of the proposed stations.

Conclusions

Based on the site visits, it is our opinion that onsite dispersal to ground of treated sewage effluent is possible for the proposed development.

Use of this report is subject to the attached General Conditions. The reader's attention is specifically drawn to these conditions, as it is essential that they be followed for the proper use and interpretation of this report.

We trust this report meets with your approval. Should you have any questions or comments, please contact the undersigned.

DTC

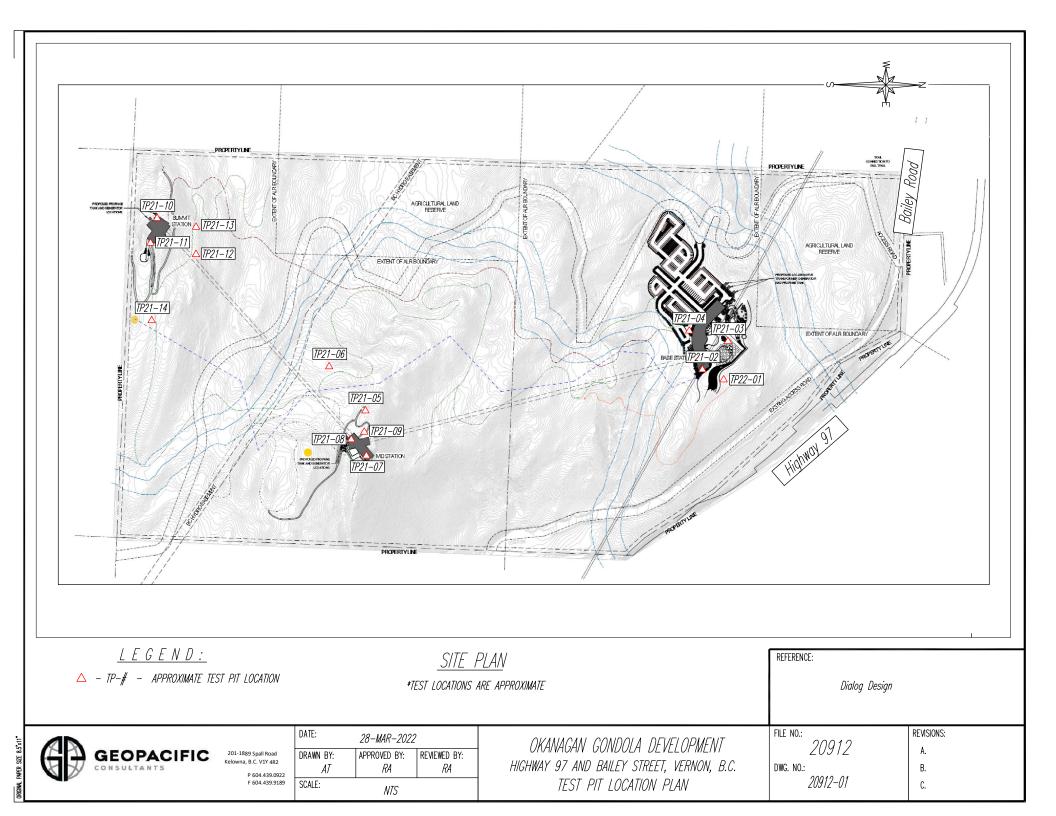
Yours truly, DEANSTECH CONSULTING LTD.

Prepared by,



Richard Deans, C. Tech, ROWP # 0340 Groundwater Technician

Attachments: Site Photographs x 7 Figure 1, Geopacific Site Plan with Testing Locations Figure 2 to 15, Geopacific Soil Logs Province of British Columbia Geographic Soil Description General Conditions





201-1889 Spall Road, Kelowna, BC V1R 4R2 Tel: 604-439-0922

File: 20912 Project: Okanagan Gondola Development *Client:* Ridge North America *Site Location:* Highway 97 and Bailey Road, Vernon

						1
		INFERRED PROFILE				
Depth	Symbol	SOIL DESCRIPTION	Depth (m)/Elev (m)	Sample Number	Moisture Content (%)	Remarks
$0 \frac{\text{ft}}{0} \frac{\text{m}}{0}$		Ground Surface	0.0			
	±_±_±	TOPSOIL silty, gravelly, sandy, dark brown, damp, loose to compact	0.0 -0.2			
		SAND and GRAVEL medium to coarse grained sand, angular gravel to cobble, some silt, copper brown, damp, compact to dense with depth	-0.2			
2		END OF TEST PIT AT 2.0 METRES	-2.0 2.0			
7		-refusal of material -no groundwater encountered -no sloughing of sidewalls				
8						
9						
103						
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File: 20912 Project: Okanagan Gondola Development *Client:* Ridge North America *Site Location:* Highway 97 and Bailey Road, Vernon

	<u>т</u> т	INFERRED PROFILE				
Depth	Symbol	SOIL DESCRIPTION	Depth (m)/Elev (m)	Sample Number	Moisture Content (%)	Remarks
0 ^{ft} m	141.141.14	Ground Surface	0.0	-		
0 - 0 - 0 - 1 2 1 1 1 1 2 2 2 2 2 2 		TOPSOIL silty, gravelly, sandy, dark brown, damp, loose to compact SAND and GRAVEL medium to coarse grained sand, angular gravel to cobble, some silt, copper brown, damp, compact to dense with depth BEDROCK BEDROCK END OF TEST PIT AT 2.2 METRES -refusal of material -no groundwater encountered -no sloughing of sidewalls	0.0 -0.2 0.2 0.2			
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File: 20912 Project: Okanagan Gondola Development *Client:* Ridge North America *Site Location:* Highway 97 and Bailey Road, Vernon

		INFERRED PROFILE				
Depth	Symbol	SOIL DESCRIPTION	Depth (m)/Elev (m)	Sample Number	Moisture Content (%)	Remarks
0 ^{ft} m		Ground Surface	0.0 0.0			
	<u>*,*,*</u>	TOPSOIL				
- - - - - - - - - - - - - - - - - - -		silty, gravelly, sandy, dark brown, damp, loose to compact GRAVEL and SAND angular gravel to cobble, coarse grained sand, some silt, tan brown, damp, compact to dense with depth	-0.2			
		END OF TEST PIT AT 2.0 METRES -refusal of material	-2.0 2.0			
		-no groundwater encountered -no sloughing of sidewalls				
8 - - -						
9						
10 - 3						
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201-1889 Spall Road, Kelowna, BC V1R 4R2 Tel: 604-439-0922

File: 20912 Project: Okanagan Gondola Development *Client:* Ridge North America *Site Location:* Highway 97 and Bailey Road, Vernon

	INFERRED PROFILE				
Depth Symbol	SOIL DESCRIPTION	Depth (m)/Elev (m)	Sample Number	Moisture Content (%)	Remarks
0 t m	Ground Surface	0.0			
	TOPSOIL silty, gravelly, sandy, dark brown, damp, loose to compact GRAVEL and SAND angular gravel, medium to coarse grained sand, some silt, yellowish brown to tan brown with depth, damp, compact to dense with depth	0.0 0.0 -0.3 0.3 -2.5 2.5	SA-01	6.9	
Logged: A	-no sloughing of sidewalls				Datum: Figure Number: A 04

Method: John Deere 75 Tracked Excavator Date: March 17, 2022 Datum: Figure Number: A.04 Page: 1 of 1



201-1889 Spall Road, Kelowna, BC V1R 4R2 Tel: 604-439-0922

File: 20912 Project: Okanagan Gondola Development *Client:* Ridge North America *Site Location:* Highway 97 and Bailey Road, Vernon

		INFERRED PROFILE				
Depth	Symbol	SOIL DESCRIPTION	Depth (m)/Elev (m)	Sample Number	Moisture Content (%)	Remarks
$0 \frac{\text{ft}}{0} 0$		Ground Surface	0.0			
		TOPSOIL silty, gravelly, roots throughout, dark brown, damp, loose to compact BEDROCK (WEATHERED) angular rock, some fines, copper brown to medium grey, compact	-0.5			
6 		END OF TEST PIT AT 1.8 METRES -no groundwater encountered -no sloughing of sidewalls	-1.8			
	Logged: AT Datum: Method: John Deere 75 Tracked Excavator Eigure Number: A 05					

Method: John Deere 75 Tracked Excavator Date: March 17, 2022 Datum: Figure Number: A.05 Page: 1 of 1



201-1889 Spall Road, Kelowna, BC V1R 4R2 Tel: 604-439-0922

File: 20912 Project: Okanagan Gondola Development *Client:* Ridge North America *Site Location:* Highway 97 and Bailey Road, Vernon

		INFERRED PROFILE				
Depth	Symbol	SOIL DESCRIPTION	Depth (m)/Elev (m)	Sample Number	Moisture Content (%)	Remarks
$0 \frac{\text{ft}}{0} \frac{\text{m}}{0}$		Ground Surface	0.0			
0 - 0 - 0 - 1 2 - 1 - 2 7 - 2		TOPSOIL silty, gravelly, roots throughout, dark brown, damp, loose to compact SAND and GRAVEL medium to coarse grained sand, angular gravel, some silt to silty, medium grey brown, moist, compact to dense with depth BEDROCK BEDROCK Provide a structure of material -no groundwater encountered -no sloughing of sidewalls	-1.0 -1.2 1.2			-minor groundwater seepage at 1.0 metres
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201-1889 Spall Road, Kelowna, BC V1R 4R2 Tel: 604-439-0922

File: 20912 Project: Okanagan Gondola Development *Client:* Ridge North America *Site Location:* Highway 97 and Bailey Road, Vernon

INFERRED PROFILE	
Depth Depth (m)/Elev (m) Noisture Content (%) Benth (m)/Elev (m) Moisture Content (%)	
0 ti m 0 ti m	
0 ftmo 0.0 1 silv, gravely, roots throughout, dark brown, damp, loose to compact 0.0 2 0.3 0.3 2 0.6 0.6 -refusal of material -no groundwater encountered -no sloughing of sidewalls 0.6 3 1 0.6 4 -1 0.6 3 -1 0.6 -1 -0.6 0.6 -1 -0.6 0.6 -1 -0.6 0.6 -1 -0.6 0.6 -1 -0.6 0.6 -1 -0.6 0.6 -1 -0.7 0.6 -1 -0.6 0.6 -1 -0.7 0.6 -2 -1 -1 -3 -1 -1 -2 -1 -1 -3 -1 -1 -3 -1 -1	

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201-1889 Spall Road, Kelowna, BC V1R 4R2 Tel: 604-439-0922

File: 20912 Project: Okanagan Gondola Development *Client:* Ridge North America *Site Location:* Highway 97 and Bailey Road, Vernon

		INFERRED PROFILE				
Depth	Symbol	SOIL DESCRIPTION	Depth (m)/Elev (m)	Sample Number	Moisture Content (%)	Remarks
0 ^{ft} m	- <u>]-</u>]-	Ground Surface	0.0			
	****	TOPSOIL silty, gravelly, sandy, roots throughout, dark brown, damp, loose to compact				
1		GRAVEL and SAND sub-round to sub-angular gravel, fine to coarse grained sand, silty, medium grey, moist, loose to compact	-0.3			
2		SAND and GRAVEL medium to coarse grained sand, angular gravel to cobble, some silt, copper brown, damp, compact to dense	-0.6 0.6			
3- 1 1						
4						
5			-1.8			
6- ⁻ - 2		GRAVEL and SAND sub-round to sub-angular gravel to boulders, fine to coarse grained sand, silty, medium grey, moist, compact to dense	1.8			-boulders up to 0.6 metres in diameter @ 2.0 metres
7						
8 - - -						
9			-2.8 2.8			
 3 10 3		END OF TEST PIT AT 2.8 METRES	2.8			
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201-1889 Spall Road, Kelowna, BC V1R 4R2 Tel: 604-439-0922

File: 20912 Project: Okanagan Gondola Development *Client:* Ridge North America *Site Location:* Highway 97 and Bailey Road, Vernon

	INFERRED PROFILE				
Depth Symbol	SOIL DESCRIPTION	Depth (m)/Elev (m)	Sample Number	Moisture Content (%)	Remarks
	Ground Surface TOPSOIL silty, gravelly, roots throughout, dark brown, damp, loose to compact BEDROCK (WEATHERED) angular, some fines, compact	0.0 0.0 -0.3 0.3			
	BEDROCK Prefusal of material -no groundwater encountered -no sloughing of sidewalls	-0.8 0.8 -0.9 0.9			

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201-1889 Spall Road, Kelowna, BC V1R 4R2 Tel: 604-439-0922

File: 20912 Project: Okanagan Gondola Development *Client:* Ridge North America *Site Location:* Highway 97 and Bailey Road, Vernon

		INFERRED PROFILE				
Depth	Symbol	SOIL DESCRIPTION	Depth (m)/Elev (m)	Sample Number	Moisture Content (%)	Remarks
0 ^{ft} m	10.730.730	Ground Surface	0.0			
0 - 0 - 0		Ground Surface Silty, gravelly, rootlets throughout, dark brown, damp, loose to compact BEDROCK END OF TEST PIT AT 0.3 METRES -refusal of material -no groundwater encountered -no sloughing of sidewalls	0.0 0.0 -0.2 0.2			

Logged: AT Method: John Deere 75 Tracked Excavator Date: March 17, 2022 Datum: Figure Number: A.10 Page: 1 of 1



201-1889 Spall Road, Kelowna, BC V1R 4R2 Tel: 604-439-0922

File: 20912 Project: Okanagan Gondola Development *Client:* Ridge North America *Site Location:* Highway 97 and Bailey Road, Vernon

			INFERRED PROFILE				
Denth		Symbol	SOIL DESCRIPTION	Depth (m)/Elev (m)	Sample Number	Moisture Content (%)	Remarks
0 ^{ft}	m - 0		Ground Surface	0.0			
			Ground Surrace Sitty, gravelly, rootlets throughout, dark brown, damp, loose to compact BEDROCK END OF TEST PIT AT 0.3 METRES -refusal of material -no groundwater encountered -no sloughing of sidewalls	0.0 0.0 -0.2 0.2			
10-	Ŭ						

Logged: AT Method: John Deere 75 Tracked Excavator Date: March 17, 2022 Datum: Figure Number: A.11 Page: 1 of 1



201-1889 Spall Road, Kelowna, BC V1R 4R2 Tel: 604-439-0922

File: 20912 Project: Okanagan Gondola Development Client: Ridge North America Site Location: Highway 97 and Bailey Road, Vernon

		INFERRED PROFILE				
Depth	Symbol	SOIL DESCRIPTION	Depth (m)/Elev (m)	Sample Number	Moisture Content (%)	Remarks
$0 \frac{\text{ft}}{0} 0$	24126126	Ground Surface	0.0			
	**** ****	TOPSOIL silty, gravelly, roots throughout, dark brown, damp, loose to compact	0.0			
1-		GRAVEL and SAND	-0.3 0.3			
-		sub-angular gravel, fine to coarse grained sand, some silt to silty, moist to wet with depth, loose to compact				
2						-moderate to heavy groundwater seepage at 0.6 metres
3-1						
-						
4						
-			-1.5			
5-		END OF TEST PIT AT 1.5 METRES	1.5			
-		-groundwater encountered -no sloughing of sidewalls				
6						
2						
7-						
8-						
9						
Logo	ged: AT					Datum:
Meth	nod: <mark>Jo</mark> ł	nn Deere 75 Tracked Excavator				Figure Number: A.12 Page: 1 of 1

Date: March 17, 2022

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201-1889 Spall Road, Kelowna, BC V1R 4R2 Tel: 604-439-0922

File: 20912 Project: Okanagan Gondola Development *Client:* Ridge North America *Site Location:* Highway 97 and Bailey Road, Vernon

			1					
		INFERRED PROFILE						
Depth	Symbol	SOIL DESCRIPTION	Depth (m)/Elev (m)	Sample Number	Moisture Content (%)	Remarks		
0 ft m 0 0		Ground Surface	0.0					
		TOPSOIL silty, gravelly, roots throughout, dark brown, damp, loose to compact	-0.5					
		SAND and GRAVEL	0.5					
2		medium to coarse grained sand, angular gravel, some silt to silty, tan brown, moist, compact to dense with depth						
-			-0.8 0.8			-minor groundwater seepage at 0.75		
3-	.	BEDROCK	-0.9 0.9			metres		
		 END OF TEST PIT AT 0.9 METRES -refusal of material -minor groundwater encountered -no sloughing of sidewalls 	0.9					

Logged: AT Method: John Deere 75 Tracked Excavator Date: March 17, 2022 Datum: Figure Number: A.13 Page: 1 of 1



201-1889 Spall Road, Kelowna, BC V1R 4R2 Tel: 604-439-0922

File: 20912 Project: Okanagan Gondola Development *Client:* Ridge North America *Site Location:* Highway 97 and Bailey Road, Vernon

INFERRED PROFILE				
	1			
SOIL DESCRIPTION	Depth (m)/Elev (m)	Sample Number	Moisture Content (%)	Remarks
oft m Ground Surface	0.0			
0 1 Ground Surface 1 TOPSOIL silty, gravelly, rootlets, dark brown, damp, loose 1 SAND and GRAVEL fine to medium grained sand, sub-angular gravel, some silt to silty, golden yellow brown, damp, compact 3 1 4 1 5 1 6 END OF TEST PIT AT 1.8 METRES - no groundwater encountered -no sloughing of sidewalls	0.0 0.0 -0.3 0.3 -1.8 1.8			
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Description of soil BCAMGli~~~N (ARMSTRONG)

General Characteristics

Classification	O.BLC Orthic Black Chernozem
Profile	Native soil profile The soil is in native condition (undisturbed by agriculture).
<u>Kind of material</u>	Mineral The soil material is primarily composed of mineral particles.
Water table	Never The water table is not present in the soil at any time.
Root restrictions	Seventh layer The growth of plant roots is restricted by the seventh layer.
<u>Type of root</u> restricting layer	Lithic Lithic (consolidated bedrock)
<u>Drainage</u>	Well drained Water is removed from the soil readily but not rapidly. Excess water flows downward readily into underlying pervious material or laterally as subsurface flow. Soils have intermediate available water storage capacity (4-5 cm) within the control section, and are generally intermediate in texture and depth. Water source is precipitation. On slopes subsurface flow may occur for short durations, but additions are equaled by losses.

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Parent Materials

Mode of Deposition	Texture	Chemical properties		
Till (Morainal)	Moderately Coarse	Moderately / Very		
Morainal material (till) deposited by	Moderately Coarse (USDA Texture Classes:	Strongly Calcareous		
glacial ice: a mixture of boulders, sand, silt, and clay.	VFS,LVFS,CSL,SL,FSL,GSL,CBSL,GFSL).	6 - 40 CaCO ₃ equivalent (%)		

Soil Layer Characteristics

<u>Layer</u> Number	<u>Upper</u> depth		Classification				Physical						
			hzn_lit	hzn_mas	<u>hzn_suf</u>	hzn_mod	bd	<u>cofrag</u>	tsand	tsilt	<u>tclay</u>	domsand	vfsa
1	-3	0		LFH			0.11	5	-9	-9	-9		-9
2	0	18		А	h	1	1.24	15	54	36	10	F	14
3	18	31		А	h	2	1.4	15	53	36	11	F	13
4	31	46		AB			1.6	20	54	37	9	F	14
5	46	75		В	m		1.65	30	56	35	9	F	14
6	75	83		С	k		1.75	35	52	39	9	F	13
7	83	100		R			2.65	-9	-9	-9	-9		-9

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This report incorporates and is subject to these "General Conditions".

1. USE OF REPORT AND OWNERSHIP

This sewage dispersal report pertains to a specific site, a specific development and a specific scope of work. It is not applicable to any other sites nor should it be relied upon for types of development other than that to which it refers. Any variation from the site or development would necessitate a supplementary assessment. This report and the recommendations contained in it are intended for the sole use of DeansTech's client. DeansTech does not accept any responsibility for the accuracy of any of the data, the analyses or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than DeansTech's client unless otherwise authorized in writing by DeansTech. Any unauthorized use of the report is at the sole risk of the user. This report is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of DeansTech. Additional copies of the report, if required, may be obtained upon request.

2. NATURE AND EXACTNESS OF DATA

Some data reviewed during this assessment was produced by others and has been relied upon by DeansTech to form opinions of the site. The accuracy of the data reviewed has not been confirmed. Some data was collected from sources readily available to the public. Other data and information was obtained from the client for use in this report.

3. LOGS OF TEST HOLES AND WATER WELL RECORDS

The test hole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples carried out by others. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive. Any circumstance, which requires precise definition of soil or rock zone transition elevations, may require further investigation and review.

4. STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from the information reviewed. Stratigraphy is known only at the location of the drill hole/testpit or other drill holes/testpits in the area. Actual geology and stratigraphy between drill holes/testpits and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historic environment. DeansTech does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional investigation and review may be necessary.

5. SURFACE WATER AND GROUNDWATER CONDITIONS

Surface and groundwater conditions mentioned in this report are those observed at the times recorded in the report. These conditions vary with geological detail between observation sites; annual, seasonal and special meteorologic conditions; and with development activity. Interpretation of water conditions from observations and records is judgmental and constitutes an evaluation of circumstances as influenced by geology, meteorology and development activity. Deviations from these observations may occur during the course of development activities.

6. WATER QUALITY

Water quality information was based on the results of water samples obtained from the well(s). The chemical analysis results can very from season to season and at different depths within a well.

7. STANDARD OF CARE

Services performed by DeansTech for this report have been conducted in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practising under similar conditions in the jurisdiction in which the services are provided. Technical judgment has been applied in developing the conclusions and/or recommendations provided in this report. No warranty or guarantee, express or implied, is made concerning the test results, comments, recommendations, or any other portion of this report.

