VILLENEUVE CONSTRUCTION CO. LTD. 2.40538 Technical Report Assessment Work Performed on Mining Claims # 4205611 in Harmon Township. Gilles Leclerc Jr FEB 12 2009 GEOSCIENCE ASSESSMENT 2009 172009 NCE ASSESSMENT OFFICE

P.O. BOX1720, 1533 HWY 11 WEST, HEARST ON, POL 1NO

<u>Technical Report</u> <u>For</u> <u>Assessment Work Performed on Mining Claim</u> #4205611

Prepared By:

Gilles Leclerc Jr

For

C. Villeneuve Construction Co. Ltd. 1533 Hwy 11 West, P.O. Box 1720 Hearst, Ontario POL 1N0

February 6th, 2009

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Summary

The holders of the land covered by the survey is C. Villeneuve Construction Co. Ltd. which is located at 1533 Hwy 11 West, Hearst, Ontario, POL 1NO.

The mining claim #4205611 on which the drilling work was performed is located in Harmon Township approximately 78 km North of Kapuskasing accessible by Fred Flatt Road.

- UTM, N.A.D. 83, Zone 17, Harmon Township

The workers accessed the site by going thru Kapuskasing using Gurney Road, then Fred Flatt Road as per figure #2.

The supervising of the survey was done by Roch Lapointe, representing C. Villeneuve Construction Co. Ltd.. The drilling runner was Kevin Martineau and drilling helper was Yvan Letourneau. The machinery was floated by Marc Gaudreau. The work was done from May 14th, 2007 to May 27th, 2008.

The Drilling consisted of a Dozer clearing a trail for the drilling machine. Then the diamond drill performed four holes in the mining claim boundaries then extracted the caissons for further analyses of the rock and overburden contained in the area. The water table was registered for future reference.

The drill holes logs

The drilling contractor, Norex Drilling Limited, drilled 4 holes within the mining claim 4205611 from the 14th to the 27th of May, 2009. The drill sample materials were stored in the Villeneuve Construction garage until they were sent to TBT Engineering on the 15th of December, 2008 for testing. TBT Engineering is located at Corporate & Engineering Office Suite 200 - 101 N. Syndicate Avenue, Thunder Bay, ON P7C 3V4, Tel: (807) 624-5160, Fax: (807) 624-5161. Below is a summary of the Bore Hole Logs, also included are the foreman daily reports filled by Kevin Martineau from appendix #1 thru #11.

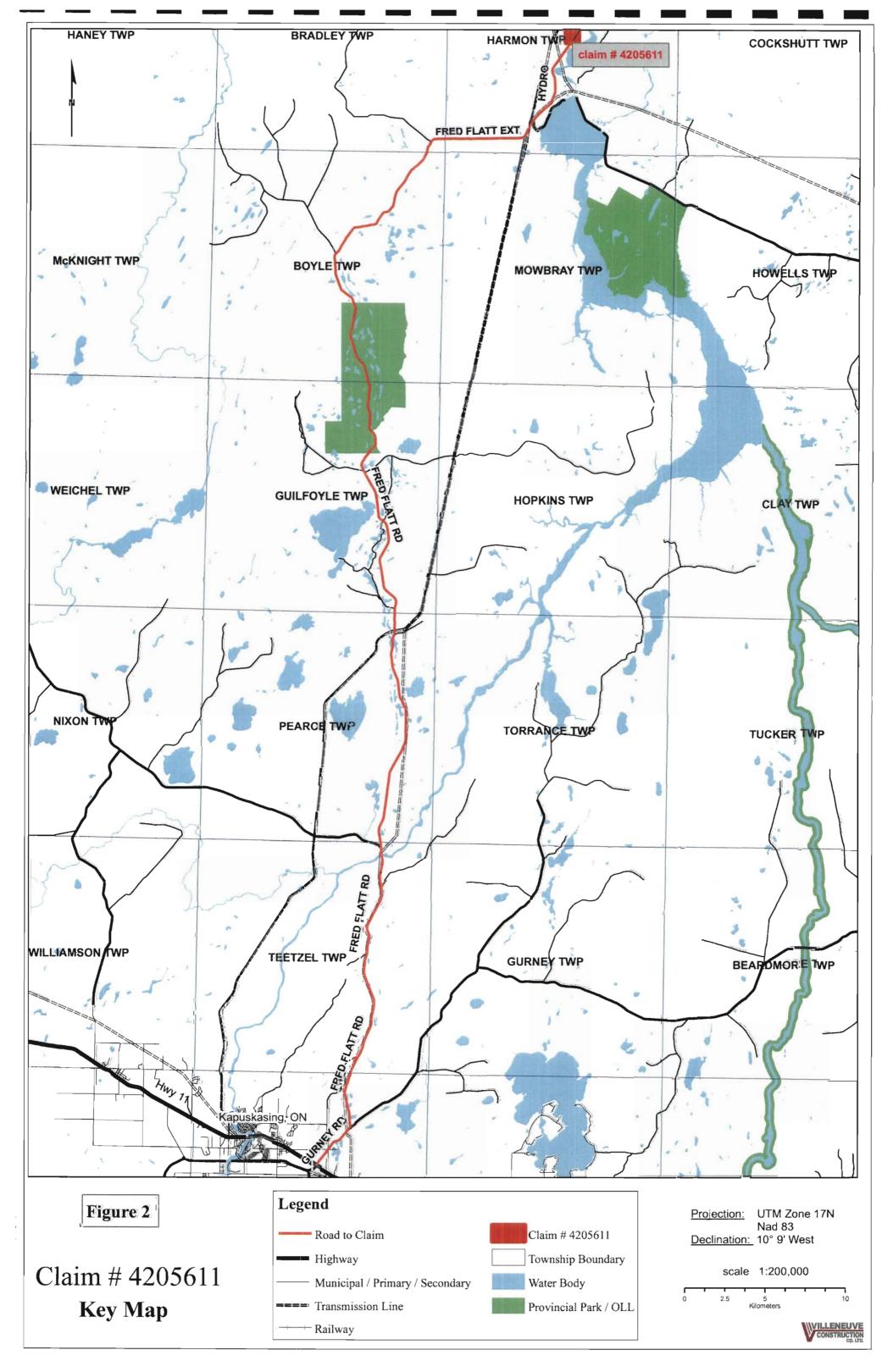
<u>Bore hole #1</u> was located at coordinates 416541E and 5543511N as per the map in figure #1. The 1-1/2" hole was drilled vertically on the 15th of May, 2007, to a depth of 29 meters from original ground. The overburden in drill hole #1 was of 2.8 meters. The penetration of the drill hole in bedrock was of 26.2m. The drill hole section are from appendix #12 to #14.

Bore hole #2 was located at coordinates 416223E and 5543772N as per the map in figure #1. The 1-1/2" hole was drilled vertically from the 17^{th} to the 23 of May, to a depth of 29m from original ground. The overburden in drill hole #2 is non- existing since the hole was done on a rock surface. The penetration of the drill hole in bedrock was of 29m. The drill hole section are from appendix #15 to #17.

Bore hole #3 was located at coordinates 416537E and 5543822N as per the map in figure #1. The 1-1/2" hole was drilled vertically on the 23rd of May, 2009, to a depth of 29m from original ground. The overburden in drill hole #3 was of 2.8 meters. The penetration of the drill hole in bedrock was of 26.2 meters. The drill hole section are from appendix #18 to #20.

<u>Bore hole #4</u> was located at coordinates 416392E and 5543640N as per the map in figure #1. The hole 1-1/2" was drilled vertically from the 16th to the 17th of May, 2009 to a depth of 41 meters from original ground. The core size was of 2" diameter. The overburden in drill hole #4 was of 9.5 meters. The penetration of the drill hole in bedrock was of 31.5m. The drill hole section are from appendix #21 to #24.







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FOREMAN'S DAILY REPORT

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7210 Highway 101 East	

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Porcupine, Ontario, Canada P0N 1C0 Tel: (705) 235-2222 - Fax (705) 235-2806 FOREMAN'S DAILY REPORT DRILL NO. 3 DATE May 1/2007 PROJECT/LOCATION: DRILLING DRILLING HELPER NAME 25 SUPPLIES TO BE CHARGED TO COMPANY REMARKS HOLE # SIZE CASING SIZE NW SIZE 3m x 1.5m x 2ft x 4 CHILDE Mud # Bags Cement Oty Polymer Qty DIAMONDS BIT NO. REASON FOR CHARGE TYPE SIZE ULFIV, NO , 1 DOZER SKIDDER MUSKEG NO. NO. MOBILE EQUIPMENT OPERATOR'S REPORT NO. 6:00 LENGTH OF WATER LINE METRES/FEET METRES/FEET DISTANCE MOVED METRES/FEET AT TESTS METRES/FEET

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CONTRACTOR REPRESENTATIVE

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COMPANY REPRESENTATIVE

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COMPANY REPRESENTATIVE

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FOREMAN'S DAILY REPORT VILLENEUVE CONSTRUCTION DRILL NO. DATE MAY 2 2007 PROJECT/LOCATION: TIME NAME SUPPLIES TO BE CHARGED TO COMPANY REMARKS HOLE# CASING SIZE SIZE SIZE 3m x 1.5m x .2ft x Mud # Bags Cement Qty Polymer Qty DIAMONDS TYPE SIZE BIT NO. REASON FOR CHARGE SKIDDER MUSKEG NO. NO. DOZER NO. MOBILE EQUIPMENT OPERATOR'S REPORT LENGTH OF WATER LINE METRES/FEET DISTANCE MOVED METRES/FEET METRES/FEET AT TESTS METRES/FEET AT

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COMPANY REPRESENTATIVE

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FOREMAN'S DAILY REPORT

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VH = Very High = >200 H = High = 50-200 M = Medium = 15-50

L = Low = 4-15 VL = Very Low = 1-4

Weathering

U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured

H = Highly = Friable C = Completely = Soil-like Discontinuity type

B ≈ Bedding joint J = Cross Joint

F = Fault S = Shear Plane

C = Close = 5-30cm VC = Very close = <5cm

RP = Rough planar

SP = Smooth planar

Roughness

W = Wide = 1-3m

VW = Very wide = >3m

M = Moderate = 0.3-1m

RU = Rough undulating

SU = Smooth undulating

Spacing

Orientation

F = Flat = 0-20°

D = Dipping = 20-50°

D = Dipping = 20-50° V = Near Vertical = >50°

> LU = Slickensided undulating

LP = Slickensided planar

Aperture

O = Open C = Closed

F = Filled

Filling

T = Tight, hard O = Oxidized

SA = Slightly altered, clay free

S = Sandy, Clay free Si = Sandy, silty, minor clay

NC = Non-softening clay SC = Swelling, softening clay TBT ENGINEERING
CONSULTING GROUP

FIELD CORE LOG

Project #: 09-016

Borehole #: 07-01 Page 1/3

Client: Villeneuve

Logger: Dave Gauthier

Site:

Date: 27 JAN 09

							£				DISC	INITIO	JITIES				
DEPTH FROM	BOX/RUN	% REC	% RQD	ОЕРТН ТО	Rock code/graphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS
		95%	87%			GNEISS (w/ garnet, biotite)				ι	F	М	RP	0	~	40 cm pegmatitic	
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		7.1	5.			<u> </u>											
		100%	85%			GNEISS (w/ garnet, biotite)				ı	F	w	RP	0	~	Some hydrothermal	
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i i		3.06 m	2.5			Variable interlocking texture				٦	D	w	~	C SA		filling/alteration	
		100%	82%			CANFIES In A course biseless				٦	F	w	RP	0	~		
6m		π 10	2.48 m 8	9m		GNEISS (w/ garnet, biotite) Med grey/white, banded,	н	U	2	J	D	w	~	C/ 0	SA	Some hydrothermal alteration, some qtz	~
		3.02 m	2.4			Variable interlocking texture										veining	
		%0	%							1	F	М	RP	٥	~	Some hydrothermal	
9m	m 6 8 12m			GNEISS (w/ garnet, biotite) Med grey/white-pink, banded,	н	U	2	J	٧	~		С	SA	alteration, qtz vein breccias, zones of	~		
	3.04 m 3.04 m			Variable interlocking texture										porphyritic garnet			

Strength (MPa)
VH = Very High = >200
H = High = 50-200
M = Medium = 15-50
L = Low = 4-15
VL = Very Low = 1-4
Weathering
U = Unweathered ≈ No signs
S = Slightly = Oxidized
M = Moderately - Discoloured

H = Highly = Friable

Discontinuity type Spacing B = Bedding joint J = Cross Joint F = Fault S = Shear Plane

Orientation

F = Flat = 0-20"

D = Dipping = 20-501

V = Near Vertical = >50°

Aperture VW = Very wide = >3m O = Open W = Wide = 1-3m M = Moderate = 0.3-1mC = Close = 5-30cm



VC = Very close : <5cm Filling Roughness T = Tight, hard RU = Rough undulating O = Oxidized RP = Rough planar SU = Smooth undulating SP = Smooth planar

SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay

Project #: 09-016

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DEPTH FROM	BOX/RUN	% REC	% 4QD	ОЕРТН ТО	Rock code/gruphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS
		%001	%98			GNEISS (w/ garnet, biotite)				١	F	M/ C	RP	0	Ŧ		
12m		3.06 m 100%	2.63 m	15m		Med grey/white-pink, banded, Variable interlocking texture	Н	U	1		<u></u>					10 cm pegmatitic qtz+plag lens (granitic)	ou.
		%66	91%							J	F	M/ C	RP	۵	Т	_	
15m		2.99 m 99	71 m 9.	18m		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded,	н	ن	1							20 cm pegmatitic granite lens	~
		2.9	2.7			Variable interlocking texture		<u>.</u>								(qtz+plag+k-spar)	
		30%	4%			GNEISS (w/ garnet, biotite)				J	F	M/ C	RP	0	Т	Numerous thin	
18m		3.00 m 100%	2.82 m 94%	21m		Med grey/white-pink, banded, Variable interlocking texture	н	U	1							pegmatitic granite (qtz+plag+k-spar)	~
		3.00	7.8			variable interrocking texture										lenses	
		93%	94%							1	F	M/ C	RP	0	Т	Hydrothermal	
21m		Ε	.62 m 94	24m		GNEISS (no garnet, w/biotite) Med-dark grey/white-pink, banded,	Н	U	2	J	D	М	RP	С	Т	alteration haloes around thin qtz veins,	~
		2.78	2.62			Variable interlocking texture										some thin pegmatitic lenses	

VH = Very High = >200 H = High = 50-200 M = Medium = 15-50

L = Low = 4-15

VL = Very Low = 1-4

Weathering

U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable

C = Completely = Soil-like

Discontinuity type

B = Bedding joint

J = Cross Joint F = Fault

S = Shear Plane

Roughness

Spacing

VW = Very wide = >3m

M = Moderate = 0.3-1m

VC = Very close = <Scm

RU = Rough undulating

SU = Smooth undulating

RP = Rough planar

SP = Smooth planar

W = Wide = 1-3m

C = Close = 5-30cm

Orientation F = Flat = 0-20* D = Dipping = 20-50°

V = Near Vertical = >50°

LU = Slickensided undulating

LP = Slickensided planar

Aperture

O ≈ Open C = Closed

F = Filled

Filling

T = Tight, hard O = Oxidized

SA = Slightly altered, clay free

S = Sandy, Clay free Si = Sandy, silty, minor clay

SC = Swelling, softening clay

NC = Non-softening clay

TBT ENGINEERING CONSULTING GROUP

FIELD CORE LOG

Project #: 09-016

Borehole #: 07-01 Page 3/3

Client: Villeneuve

Logger: Dave Gauthier

Site:

Date: 27 JAN 09

						LP = Slickensided p	olanar										
							£				DISCO	INITAC	JITIES				
DEPTH FROM	BOX/RUN	% REC	% RQD	ОЕРТН ТО	Rock code/graphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS
		%66	84%			GNEISS (no garnet, w/biotite)				J	D	M	RP	O	τ	Thin pegmatitic qtz	
24m		296 m 9	2.53 m	27m		Med-dark grey/white-pink, banded, Variable interlocking texture	н	U	1							veins, no alteration halo	
	-	-															
27m		100%	2.08 m 100%	29m		GNEISS (no garnet, w/biotite) Med-dark grey/white-yellow,	H	U	0							28.5-29.0 m pegmatitic granite zone,	
27111		2.26 m	2.08 11	EOH		banded, variable interlocking texture	•••		Ü		 					granoblastic, some potassic alteration	
			-														
													_				
			:												_		
										_			_				~

VH = Very High = >200 H = High = 50-200M = Medium = 15-50

U = Unweathered = No signs

M = Moderately = Discoloured

S = Slightly = Oxidized

H = Highly = Friable

C = Completely = Soil-like

L = Low = 4-15VL = Very Low = 1-4

Weathering

Discontinuity type B = Bedding joint

Orientation

F = Flat = 0-20°

D = Dipping = 20-50°

V = Near Vertical = >50°

J = Cross Joint F = Fault S = Shear Plane Spacing VW = Very wide = >3m W = Wide = 1-3m

M = Moderate = 0.3-1m C = Clase = 5-30cm VC = Very close = <5cm

RU = Rough undulating

SU = Smooth undulating

RP = Rough planar

SP = Smooth planar

LU = Slickensided

Roughness

Filling

T = Tight, hard O = Oxidized

Aperture

O = Open

C = Closed

F = Filled

SA = Slightly altered, clay free S = Sandy, Clay free

Si = Sandy, silty, minor clay NC = Non-softening clay

TBT ENGINEERING **CONSULTING GROUP**

FIELD CORE LOG

Project #: 09-016

Borehole #: 07-02 Page 1/3

Client: Villeneuve

Logger: Dave Gauthier

C = Comple	,	- 30		-		undulating LP = Slickensided		5		elling, s			Sit	e:		Date: 2 8	3 IAN 09
							÷				DISC	ONTIN	UITIES				
DEPTH FROM	BOX/RUN	% REC	% RQD	DEPTH TO	Rock code/graphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS
																	*Core depths marked 0m at start of bedrock - add
0m				2.6m		Overburden/Casing								-		~	2.6 m to marks in core boxes for depth from surface
		82%	40%							1	F	С	RP	0	т	Garnet grading out	
2.6m				7.6m		GNEISS (w/ garnet, bitotite, k-spar) Med grey/white-pink, banded,	н	s	1							below 4m, 10-20 cm pegmatitic granite	~
		4.10 m	1.99 m			variable interlocking texture										lenses, some felsic 'clots'	
		100%	%6/			GNEISS (no garnet, w/ bitotite, k-				j	F	С	RP	0	т	Numerous thinner	
7.6m		I۶∣	Ε	1 0.6m		spar), Med grey/white-pink, banded, variable interlocking	н	u	2	1	٧	w	RU	С	T	pegmatitic granite lenses, some coarse	~
		3.1	2.45			texture										grained qtz+plag zones	
		87%	%69			GNEISS (no garnet, w/ bitotite, k-				J	F	С	RP	0	т	Common pegmatitic	
10.6m		8 w 7	, m 6	13.6m		spar), Med grey/white, strongly banded, variable interlocking	н	U	1							qtz + plag lenses, thin quartz veins with	~
		2.62 m	2.07			texture										hydrothermal alteration halo	

VH - Very High - > 200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15

U = Unweathered = No signs

M = Moderately = Discoloured

S = Sightly = Oxidized

H = Highly = Friable

C = Comp etely = So I-like

VL " Very Low - 1-4

Weathering

Orientation

F = Flat = 0-20" D = Dipping = 20-501 V = Near Vertical = >50°

Discontinuity type

B - Bedding joint

I = Cross Icint

5 = Shear Plane

F = Fault

Spacing

Roughness

ur dula ing

VW = Very wide = 53 m W = Wide = 1-3m M = Moderate = 0.3-1mC = Clase = 5-30cm

VC - Very close - <5cm

RU = Rough undurating

SU = Smooth undulating

LP = Slickensided planer

RF = Rough planar

SP = Smooth planar

LL = Sixkensided

Aperture O - Open

C = Closed F = Filled

filling

= Tight, hard O = Oxidized

SA = Slightly altered, clay free 5 = Sandy, Clay free Si = Sandy, silty, minor clay

NC = Non-softening clay SC ~ Swe ling, suffering day

TBT ENGINEERING CONSULTING GROUP

FIELD CORE LOG

Project #: 09-016

Borehole #: 07-02 Page 2/3

Client: Villeneuve

Logger: Dave Gauthler

Site.

Date. 28 JAN 09

	_	_				El - Silekellydes	P 2.1(C)										
							77				DISC	ONIIN	ULLIES				
DEPT 4 FROV	NUF/XOB	% REC	% RQD	DEPT 4 TO	Rosk code/graphie	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (es:)	WEATHERING	# OF SETS	TYP = (S)	Orientation	SPAC NG	foughness	AFERTURE	נורחאפ	OCCASIONAL FEATURES	DRILLING OBSERVATIONS
		%36	79%			GNEISS (no garnet, w/ bitotite, <-				J	Ĺ	M/ C	RP	0	T		
13.Gm		2.93 ₪	E	15 Gm		spar), Med grey/white, banded, variable interlocking texture	1	J	1							5-15cm pegmatitic granitic lenses	~
	_	2	7.										ļ				
		100%	86%			GNEISS (no garnet, w/ bitotite, <-				ı,	F	M/	RP	Ú	τ	Nomerous thin pegmatitic lenses, rare	
16.6m		E	E	19 Gm		spar), Med grey/white-ourple, fine panding, interlocking, schistose in	-1	J	2	'	ח	W	Rij	C	SA	coarse grain zones,	~
		3.00	2.5			mafic (dark) bands										14m	
		100%	%56			Migmatitic GNEISS (no garnet_w/ o'ct'te), med grey/white, variably				j	٢	М	RP	0	T	010	
19.6m		3 10 m 1	2.95 m g	22 6m		panded, inter ocking, schistose in mafic (dark) parts, coarse grained in	-	J	2	ز	D	w	RU	С	SA	One 10cm granitic vein, ntrusive, sharp contact	
		3 1(2.9			flesic (light)										Complete	
		9%	93%			au Fine I				J	F	М	RP	o	T	Few pegma:itic granitic	
22.6m		3.08 m 100%	2.86 m 93	25 6m		GNEISS (w/ garnet, bitctite, k-spar) Med grey/wnite-pink, banded, variable interlocking texture	н <i>у</i> М	U/ S	2	1	D	w	Rü	c c	SA	lenses, fractured/altered zone 23.9- 24.1m, dipping and vertical	~

Strength (MPa) VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4

Discontinuity type B = Bedding joint J = Cross Joint F - Fault S = Shear Plane

Spacing VW = Very wide = >3m W = Wide = 1-3mM = Moderate = 0.3-1m C = Close = 5-30cm VC = Very close = <5cm

Aperture O = Open C = Closedf = Filled

TBT ENGINEERING CONSULTING GROUP FIELD CORE LOG

Weathering

U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured

H = Highly = Friable C = Completely = Soil-like Orientation

F = Flat = 0-20' $D = Dipping = 20-50^{\circ}$ V = Near Vertical = >50* Roughness RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar LU = Slickensided

undulating

Filling

T = Tight, hard O ≈ Oxidized

SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay

NC = Non-softening clay SC = Swelling, softening clay Project #: 09-016

Borehole #: 07-03 Page 1/3

Client: Villeneuve

Logger: Dave Gauthier

Site:

Date: 29 JAN 09

						LP ≈ Slickensided	planar										
					Ī		Ē				DISCO	MITNO	UITIES				
DEPTH FROM	BOX/RUN	% REC	% RQD	оертн то	Rock code/graphs	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS
Om				2.8m		Overburden/Casing											~
		100%	%			GNEISS (w/ garnet, biotite)				J	F	С	RP	0	Т	Fracturedd, oxidized Thin qtz veins w/	
2.8m		m 100	2.27 m 87%	5m		Med grey/white-yellow-pink, banded, interlocking	н/ М	s/ M	2	1	٧	~	RU	0/ C	O/ SA	hydrothermal alteration halo, CG	~
		2.59 m	2.2			Mica – platy, pleochroic, brown										granite lenses, 30-40cm qtz vein w/ sulphides @ 4.5m	
		826	%06			GNEISS (w/ garnet, biotite)				J	F	M/ C	RP	o	т	Pegmatitic granite	
5m		٤	2.69 m 9	8m		Med grey/white-pink, banded, interlocking	н	U	2	J	V	~	RU	С	т	lenses, some pure qtz Thin qtz veins w/ hydrothermal	~
		2.92	2.6													alteration haloes	
		826	%68			GNEISS (w/ garnet, biotite)				j	f	M/ C	RP	0/ C	r	No pegmatite, CG	
8m		2.90 m 9	2.68 m 8	11m		Med grey/white-pink, banded, interlocking	н	u	2	J	٧	~	RU	С	T/ O	granite lenses, CG felsic (light)	~
		2.9	2.6			[more schistose/no garnet near 10m]				-						bands w/ k-spar	

VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15

VL = Very Low = 1-4

Weathering

U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable C = Completely = Soil-like Discontinuity type B = Bedding joint

B = Bedding joint
J = Cross Joint
F = Fault
S = Shear Plane

Orientation

F = Flat = 0-20° D = Dipping = 20-50° V = Near Vertical = >50° Roughness RU = Rough undulating

VW = Very wide = >3m

M = Moderate = 0.3-1m

VC = Very close = <5cm

W = Wide = 1-3m

C = Close = 5-30cm

Spacing

RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar SU = Slickensided undulating Aperture

O = Open C = Closed F = Filled

Filling

T = Tight, hard
O = Oxidized
SA = Slightly altered, clay free
5 = Sandy, Clay free
Si = Sandy, silty, minor clay

NC = Non-softening clay SC = Swelling, softening clay TBT ENGINEERING
CONSULTING GROUP

FIELD CORE LOG

Project #: 09-016

Borehole #: 07-03 Page 2/3

Client: Villeneuve

Logger: Dave Gauthier

Site:

Date: 29 JAN 09

			LP = Slickensided	planar	,	C 3W6	ennig, si	nireum	ciay	311	Ξ.		Date. 231	A(1 03
				£.				DISCO	ONTINU	JITIES			-	
DEPTH FROM BOX/RUN	% REC % RQD	ОЕРТН ТО	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS
	94%		[more schistose/no garnet near 11m] GNEISS (w/ garnet, biotite)				J	F	С	RP	0/ C	Т	Pegmatitic granite and qtz lenses, 5-20cm thick;	
11m		14m	Med grey/white-pink, banded, interlocking	н	U	2	1	٧	~	RU	С	Т	CG felsic bands; compact mafic bands; fracture associated	~
	7 7												w/qtz veins	
	100%		GNEISS (w/ garnet, biotite)				J	F	С	RP	0	τ		
14m	3.12 m 10 2.97 m 9	17m	Med grey/white-pink, banded, interlocking	н	U	2	J	v	~	RU	С	т	No pegmatite, CG granite felsic bands	~
	3.12 m 2.97 m													
	97%		GNEISS (w/ garnet, biotite)				J	ц.	С	RP	0	τ	No pegmatite, some vertical fracture, rare	
17m		20 m	Med grey/white-greenish, banded, interlocking	н	U	2	J	>	~	RU	o/ c	SA	thin qtz veins w/ hydrothermal alteration	~
	2.9												halos, some chloritic alteration	
	× ×		GNEISS (w/ garnet, biotite)				J	F	С	RP	0	Т	No atz veins no	
20m	E E	23 m	Med grey/white-pink, banded, interlocking, w/ thick CG granite	н	U	1							pegmatite, some thin	~
	2.99		lenses										zones	
20m	99% 97%	23 m	Med grey/white-pink, banded, interlocking, w/ thick CG granite	н	U	1	J	F	С	RP	0	Т	No qtz veins, no pegmatite, some thin schistose/no garnet	~

Strength (MPa)
VH = Very High = >200
H = High = 50-200
M = Medium = 15-50
L = Low = 4-15
VL = Very Low = 1-4

U = Unweathered = No signs

M = Moderately = Discoloured

S = Slightly = Oxidized

H = Highly = Friable

C = Completely = Soil-like

Weathering

Orientation

F = Fault

F = Flat = 0-20° D = Dipping = 20-50° V = Near Vertical = >50°

Discontinuity type

B = Bedding joint

J = Cross Joint

S = 5hear Plane

RP = Rough planar
SU = Smooth undulating
SP = Smooth planar
LU = Slickensided
undulating

VW = Very wide = >3m

M = Moderate = 0.3-1m

VC = Very close = <5cm

RU = Rough undulating

W = Wide = 1-3m

C = Close = 5-30cm

Roughness

Spacing

LP = Slickensided planar

Aperture

O = Open C = Closed F = Filled

Filling

T = Tight, hard
O = Oxidized

SA = Slightly altered, clay free S = Sandy, Clay free

Si = Sandy, silty, minor clay NC = Non-softening clay SC = Swelling, softening clay TBT ENGINEERING
CONSULTING GROUP

FIELD CORE LOG

Project #: 09-016

Borehole #: 07-03 Page 3/3

Client: Villeneuve

Logger: Dave Gauthier

Site: Date: 29 JAN 09

	\prod						£				DISC	NITAC	UITIES	***			
DEPTH FROM	BOX/RUN	% REC	% RQD	ОЕРТНТО	Rock code/graphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS
		98%	95%			GNEISS (w/ garnet, biotite)				ı	F	С	RP	0	T	No k-spar, no	
23 m		2.95 m	2.75 m	26m		Med grey/white, banded, interlocking	н	υ	1		_					pegmatite, no thick felsic lenses	
	$\perp \downarrow$	2	2.				ļ	<u> </u>									
		%96	%98			GNEISS (w/ garnet, biotite)				J ——	F	С	RP	0	Т	30cm CG granite lens,	
26m		2.87 m S	2.58 m 86%	29m EOH		Med grey/white-pink, banded, interlocking	н	U	1							no pegmatite, more felsic bands than	
		2.8	2.5			interiocking										previous interval	
	$\downarrow \downarrow$				Ц											<u> </u>	
																	~
					L												

VH = Very High = >200 H = High = 50-200 M = Medium = 15-50

U = Unweathered = No signs

M = Moderately = Discoloured

C ≈ Completely = Soil-like

S = Slightly = Oxidized

H = Highly = Friable

L = Low = 4-15 VL = Very Low = 1-4

Weathering

F ≈ Fault

Orientation

F = Flat = 0-20°

Discontinuity type

B = Bedding joint

J = Cross Joint

S = Shear Plane

D = Dipping = 20-50°

V = Near Vertical = >50°

Roughness RU = Rough undulating RP = Rough planar SU = Smooth undulating

Spacing

VW = Very wide = >3m

M = Moderate = 0.3-1m

VC = Very close = <5cm

W = Wide = 1-3m

C = Clase = 5-30cm

SP = Smooth planar LU = Slickensided undulating LP = Slickensided planar Aperture

O = Open C = Closed

f = Filled

Filling

T = Tight, hard O = Oxidized

SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay

NC = Non-softening clay

SC = Swelling, softening clay

TBT ENGINEERING CONSULTING GROUP

FIELD CORE LOG

Project #: 09-016

Borehole #: 07-04 Page 1/4

Client: Villeneuve

Logger: Dave Gauthier

Site: Date: 29 JAN 09

							t T				DISC	INITAC	UITIES				
DEPTH FROM	BOX/RUN	% REC	% RQD	DEPTH TO	Rock code/graphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS
0m				9.75m		Overburden/Casing											~
		100%	%78			GNEISS (w/ garnet, biotite)				١	F	С	RP	0	Т	One narrow zone of chlorite alteration	
9.75m		Ε	1.03 m E	11m		Med grey/white, banded, interlocking	H/ M	s	1						ļ	associated with dipping fracture,	~
		1.25	1.0			memocking										paralell w/ fabric	
		88%	27%			GNEISS (w/ garnet, biotite)				J	F	С	RP	0	Т	Several zones of	
11m		2.64 m 8	٤	14m		Med grey/white-pink, banded,	H/ M	S/ M	2							fracture and chlorite alteration, some hydrothermal,	~
		2.6	1.71			interlocking										w/oxidation	
		94%	83%			GNEISS (w/ garnet, biotite)				J	F	С	RP	o	Т	Some hydrothermal alt. associated w/	
14m		2 m 9	2.48 m 8	17m		Med grey/white-pink, banded, interlocking	н	u	2	1	D	М	SP	С	Т	dipping joints 1m thick pegmatitic	~
		2.82	2.4			[some garnet free zones]										gran. w/o banding	

VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15

VL = Very Low = 1-4

Weathering

U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable C = Completely = Soil-like Discontinuity type

B = Bedding joint
J = Cross Joint
F = Fault
S = Shear Plane

Orientation

F = Flat = 0-20°
D = Dipping = 20-50°
V = Near Vertical = >50°

Spacing

Roughness RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar LU = Slickensided

VW = Very wide = >3m

M = Moderate = 0.3-1m

VC = Very close = <5cm

W = Wide = 1-3m

C = Close = 5-30cm

undulating

LP = Slickensided planar

Aperture

O = Open C = Closed F = Filled

Filling

T = Tight, hard
O = Oxidized

SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay NC = Non-softening clay

SC = Swelling, softening clay

TBT ENGINEERING
CONSULTING GROUP

FIELD CORE LOG

Project #: 09-016

Borehole #: 07-04 Page 2/4

Client: Villeneuve

Logger: Dave Gauthier

Site:

Date: 29 JAN 09

							Pianai										
					<u></u>		Ŧ				DISC	NITNO	UITIES				
DEPTH FROM	BOX/RUN	% REC	% RQD	рертн то	Rock code/graphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS
		%96	%//			GNEISS (w/ garnet, biotite)				j	F	М	RP	0	т	Numerous thin qtz veins w/hydrothermal	
17m		2.89 m	2.32 m	20m		Med grey/white, banded, interlocking	н	U	2	٦	D	М	SP	С	T	alteration halo, ass. w/dipping joint	~
		7.	2.													CG qtz/granite w/sulphides @20m	
		97%	81%			Charles to the control to the				ز	F	м	RP	0	O/ SA	Rusty dipping fracture,	
20m			2.43 m 8	23m		GNEISS (w/ garnet, biotite) Med grey/white, banded,	н	s	2	1/5	D	м	RP	0	O/ SA	some w/ chlorite alt. Some flat fracture,	~
		2.9	2.4			interlocking										oxidized Some slight shears	
		%86	80%			CALENES had as and history				į	F	м	RP	0	O/ SA	Dipping, highly oxidized shears or	
23m		Ε	lε	26m		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded,	н	ر	2	د/s	D	м	RP	0/ C	O/ SA	joints, some open Some hydrothermal	~
		2.93	2.4			interlocking										alt. Thin granite, CG lenses	
		%96	81%			Migmatitic GNEISS (no garnet, w/biotite), Med grey/white-pink,				١	F	М	RP	0	O/ SA	Numerous altered	
26m			lεl	29m		banded, interlocking, CG granite lenses	н	S	2	J	۵	w	ŘР	0/ C	SA/ NC	veins/shears towards 29m, not	~
		2.89 m	2.43			[increasing alteration to 29m, finer grain, darker, more veining]										hydrothermal, sericitized/chloritized	

Strength (MPa) VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4

U = Unweathered = No signs

M = Moderately = Discoloured

S = Slightly = Oxidized

H = Highly = Friable

C = Completely = Soil-like

Weathering

Orientation

F = Fault

 $F = F | at = 0-20^{\circ}$ $D = Dipping = 20-50^{\circ}$ V = Near Vertical = >50°

Discontinuity type

B = Bedding joint

J = Cross Joint

S = Shear Plane

Spacing VW = Very wide = >3m W = Wide = 1-3m M = Moderate = 0.3-1m C = Close = 5-30cmVC = Very close = <5cm

LU = Slickensided

LP = Slickensided planar

undulating

Filling T = Tight, hard Roughness RU = Rough undulating O = Oxidized RP = Rough planar SU = Smooth undulating S = Sandy, Clay free SP = Smooth planar

Aperture

O = Open

C = Closed

F = Filled

SA = Slightly altered, clay free Si = Sandy, silty, minor clay NC = Non-softening clay

SC = Swelling, softening clay

TBT ENGINEERING CONSULTING GROUP

FIELD CORE LOG

Project #: 09-016

Site:

Borehole #: 07-04 Page 3/4

Client: Villeneuve

Logger: Dave Gauthler

Date: 29 JAN 09

						ı =	Τ			DISC	ONTIN	UITIES				
DEPTH FROM	BOX/RUN	% REC	% RQD	DEPTH TO	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS
		100%	%06		GNEISS (no garnet, w/ biotite)				ز	F	М	RP	0	T	Increasing alteration toward 30m,	
29m		E	1.42 m	30.55 m	Med grey/white, finely banded, interlocking, no thick felsic zones	н	S	2	Į į	D	М	SP	С	T/ 0	greenschist-type, chrloritized and	~
	_	1.55	-i						_						sercitized, tight filled fracture	
			NOR		SHEAR/ALTERATION ZONE											
30.55m		3	VERY POOR	31.4 m	Not competent, extremely friable, black-green, chloritized, dipping	VL	£									~
			5		fabric											
		100%	100%		GNEISS (no garnet, w/ biotite)				ı	F	~	RP	O/ C	Т		
31.4		٤	٤١	32m	Med grey/white, finely banded, interlocking	н	S	1							Not altered ass. w/ SZ	~
		9.0	0.6		CG mafics in felsic zones											
		%	8		GNEISS (no garnet, w/ biotite)				ļ	F	м	RP	0/ C	Т	Minor zone of	
32m		%96 w	m 87%	35m	Med grey/white, finely banded, interlocking	H/ M	5/ H	2	J	٧	~	RU	0/ C	0/ T	friable/completely wx shear/fracture CG mafic blasts in felsic	~
		2.88	2.62		CG mafics in felsic zones	,,,,	,,,								zones, one fx ass. w/gran intrusive	

Weathering

VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4

U = Unweathered = No signs

M = Moderately = Discoloured

S = Slightly = Oxidized

C = Completely = Soil-like

H = Highly = Friable

Discontinuity type

B = Bedding joint J = Cross Joint F = Fault S = Shear Plane

Orientation

F = Flat = 0-20*

D = Dipping = 20-50°

V = Near Vertical = >50'

Spacing

Roughness

VW = Very wide = >3m W = Wide = 1-3m M = Moderate = 0.3-1m C = Close = S-30cm VC = Very close = <5cm

RU = Rough undulating

SU = Smooth undulating

RP = Rough planar

SP = Smooth planar

LU = Slickensided

undulating

Aperture

O = Open C - Clased F = filled

Filling

T = Tight, hard 0 = Oxidized SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay NC = Non-softening clay

SC = Swelling, softening clay

Client: Villeneuve

Project #: 09-016

Borehole #: 07-04 Page 4/4

Logger: Dave Gauthier

Date: 29 JAN 09 Site:

TBT ENGINEERING CONSULTING GROUP

FIELD CORE LOG

						LP = Slickensided	planar			<u> </u>				_			
							Ę.				DISCO	NITNO	UITIES				
DEPTH FROM	BOX/RUN	% REC	% RQD	ОЕРТН ТО	Rock code/graphi	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS
		100%	93%			GNEISS (no garnet) Nearing granoblastic granite –				1/S	F	м	RP	О	SA	CG mafics in granite phases	
35m		E	2.85 ₪	38 m		coarse banding, me-dk grey/pinkish white, interlocking	Н	u	2	j	D	w	RU	c/ 0	Т	Segregation and banding subtle but	~
		3.08	2.			Minimum and an analysis of the second								ļ		present, only minor k- spar	
		64%	57%			GNEISS (no garnet)				j	F	М	RP	0	т	10cm pegmatitic	
38m		١٤	Ε	41m EOH		Nearing granoblastic granite – coarse banding, me-dk grey/pinkish	Н	U	2	1	D	W- M	RU	С	Т	granite lens, segregation and	~
		1.92	172			white, interlocking										banding subtle No recovery 40-41m	
					Γ												
																	~
																	~