V

Appendix V
Detailed Rock Description

Terratech

APPENDIX V

Detailed Rock Description

Boreholes BH Series
Boreholes W Series

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	4.36
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-101-05
Page	1 of 2
Date of desc.	31 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 12, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-14	**9.65**	**10.71**			100	37	19			9.65 - 10.05	Jfol	Op	R	Sm	Tr M	Br	45°	3 joints
										10.05	J	Op	R	Rug	Ca		30°	1 joint
										10.05 - 10.55	Jfol	Op	R	Sm	Tr M	Br	45°	7 joints
										10.55 - 10.71	Fractured and fissile rock							
DC-15	**10.71**	**12.22**			73	25	8			10.71 - 11.41	J	Op	R	Sm	Ex	Wt	30°-50°	
										11.41 - 12.22	Fractured and fissile rock							
DC-16	**12.22**	**12.60**			44	100	1			12.22 - 12.60	J	C	R	Sm			50°	
DC-17	**12.60**	**14.07**			100	50	19			12.60 - 13.15	Jfol	C	R	Sm			50°	4 joints
DC-18	**14.07**	**15.60**								13.15	J	Op	I	Rug	Tr P, Ex		45°	
										13.27 - 14.07	J	C	R	Sm			20°-40°	14 joints
DC-19	**15.60**	**16.97**			90	63	14			15.88	Ji	C	R	Sm			90°	1 joint
										15.95 - 16.28	Jfol	C	R	Rug			40°	4 joints
										16.44	J	Op	R	Sm	Tr P, M		40°	1 joint
										16.44 - 16.72	Fractured and fissile rock							
										16.72 - 16.90	J	Op	R	Sm	Ca, M, Gy(?)	Wt	40°	3 joints, Pro, Sli
										16.90 - 16.97	Jfol	C	R	Sm			40°	5 joints
DC-20	**16.97**	**17.12**			66	0	1			16.97 - 17.12	Jfol	C	R	Sm			40°	1 joint
DC-21	**17.12**	**18.64**					11			17.12 - 18.64	Jfol	C	R	Sm				9 joints
										17.12 - 18.64	J	Op	I	Rug	M, Tr Py	Bg		2 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	4.36
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-101-05
Page	2 of 2
Date of desc.	31 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 12, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-22	**18.64**	**19.63**					14			18.64 - 19.34	Jfol	C	R	Sm			45°	9 joints
										18.64 - 19.34	J	C	I	Rug	Cl	Bg	20°	2 joints
										19.34 - 19.63	J	Op	R	Sm	M	G	45°	3 joints, prob Sli
DC-23	**19.63**	**20.19**					5				Jfol	Op	R	Sm	M	Br	45°	4 joints
											J	Op	R	Sm	Cl	B	20°	1 joint
DC-24	**20.19**	**21.71**					12			20.19 - 20.95	J	Op	R	Rug	M	B	45°	Prob Sli, 5 joints
										20.95 - 21.71	Jfol	C	R	Sm			45°	4 joints
										20.95 - 21.71	J	Op	R	Rug	Ca	Br	15°	3 joints
DC-25	**21.71**	**23.21**					7			22.26 - 23.21	J	Op	R	Sm	Cl	Bg	45°	5 joints
										22.26 - 22.66	J	Op	R	Sm	Ca	Bg	30°	2 joints
DC-26	**23.21**	**24.76**					13			23.21 - 23.37	Ji	C	I	Rug			90°	2 joints
										23.37 - 24.76	J	Op	R	Sm	Cl	Bg	40°	4 joints
										24.50	J	Op	R	Sm	Cl	Bg	30°	1 joint
DC-27	**24.76**	**25.37**					5			24.86	J	Op	R	Sm	Ca, M, P	Bg	20°	1 joint
										24.76 - 25.37	Jfol	C	R	Sm			40°	4 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	14.91
Core barrel size	HQ3
Dip	90°
Strike	N/A

Borehole No	BH-102-05
Page	1 of 3
Date of desc.	29 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol., M.A.Sc

Depth (m)	**Dip**	**Strike**
Date: April 4, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-14	**10.23**	**10.72**					4			10.23 - 10.52	Jfol	C	R	Sm	Cl		40°	4 joints
										10.52 - 10.57	Mechanically crushed							
							2			10.57 - 10.72	Jfol	C	R	Sm			30°	2 joints
DC-15	**10.72**	**11.58**					12			10.72 - 11.12	Jfol						30°	7 joints
											J	C	I	Rug			70°-80°	5 joints
							1			11.35	Jfol	Op	R	Rug	Cl	Lights	30°	1 joint
							1			11.48	J	C	R	Rug			80°	1 joint
							1			11.58	Jfol	C	R	Rug			40°	1 joint
DC-16	**11.58**	**12.22**					13			11.58 - 12.22	Jfol	C	R	Sm			45°	9 joints
										11.58 - 12.22	J	C	I	Rug			20°-80°	4 joints
DC-17	**12.22**	**12.72**					9			12.22 - 12.72	Jfol	C	R	Sm			50°	7 joints
										12.22 - 12.72	J	C	R	Rug			30°	2 joints
DC-18	**12.72**	**13.72**					8			12.72 - 13.72	Jfol	C	R	Sm			45°	5 joints
							3			12.72 - 13.72	J	C	I	Rug			30°-70°	3 joints
DC-19	**13.72**	**14.35**					10			13.72 - 14.35	Jfol	C	R	Sm			45°	6 joints
										13.72 - 14.35	J	C	I	Rug			40°-70°	4 joints
DC-20	**14.35**	**15.24**					15			14.35 - 15.24	Jfol	C	R	Sm			45°	11 joints
										14.35 - 15.24	J	C	I	Rug			70°	3 joints
										15.20	JX	C	I	Sm	Cl		25°	1 joint, Sli

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	14.91
Core barrel size	HQ3
Dip	90°
Strike	N/A

Borehole No	BH-102-05
Page	2 of 3
Date of desc.	29 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol., M.A.Sc

Depth (m)	**Dip**	**Strike**
Date:	April 4, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-21	**15.24**	**16.54**					17			15.24 - 16.54	Jfol	C	R	Sm			45°	13 joints
										15.24 - 16.54	J	Op	I	Rug	Py R		60°-80°	4 joints
DC-22-23	**16.54**	**17.32**					10			16.54 - 17.32	Jfol	C	R	Sm			45°	6 joints
										16.54 - 17.32	J	C	I	Rug	Ex		70°-80°	4 joints
DC-24	**17.32**	**18.21**					7			17.32 - 17.82	Jfol	C	R	Sm			45°	5 joints
										17.32 - 17.82	J	C	R	Rug			70°	2 joints
										17.82 - 17.92	Crushed with one pyrite covered, joint plane							
							3			17.92 - 18.21	Jfol	C	R	Sm				2 joints
										17.92 - 18.21		C	R	Rug				1 joint
DC-25	**18.21**	**18.94**			100	36	7			18.21 - 18.94	Jfol	C	R	Sm			40°	5 joints
										18.21 - 18.94	J	Op	R	Sm	P		40°	2 joints
DC-26	**18.94**	**19.81**			100	33	11			19.00	J	Op	I	Rug	M	Bg	85°	1 joint
											Jfol	C	R	Sm			40°	10 joints
DC-27	**19.81**	**20.37**			100	24	6			19.81 - 20.02	Jfol						40°	3 joints
										20.05	J	Op	R	Sm	Ca, Gy (?)		40°	Pro, Sli X
										20.19 - 20.37	Jfol	C	R	Sm			40°	2 joints
DC-28	**20.37**	**20.99**			100	77	4			20.69	J	Op	R	Sm	Ca	Wt	30°	1 joint
											Jfol	C	R	Sm			50°	3 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	71.86
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-103-05
Page	1 of 11
Date of desc.	5 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc

Depth (m)	**Dip**	**Strike**
Date:	April 12, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-18	**11.12**	**11.99**			92	20	9			11.12 - 11.27	J	Op	R	Sm	Gy		25°	3 joints, X
										11.40 - 11.57	Ji	C	I	Rug			85°	2 joints
										11.57 - 11.99	J	Op	R	Sm	M		35°	4 joints
DC-19	**11.99**	**12.90**			100	31	13			11.99 - 12.17	J	Op	R	Rug	Gy, Talc		40°	3 joints, X
										12.17 - 12.37	J	Op	I	Rug	Gy, Talc, M		10°-40°	4 joints, X
										12.37 - 12.60	Jfol	C	R	Sm			40°	3 joints
										12.70	J	C	I	Rug			85°	1 joint
										12.70 - 12.90	J	Op	R	Sm	Gy		40°	2 joints, X, Sli
DC-20	**12.90**	**13.66**			74	0	7			12.90 - 13.05	J	Op	R	Sm	Gy		40°	2 joints, X
										13.15	J	Op	R	Rug	M	Gr	40°	1 joint
										13.15 - 13.46	Fractured and fissile rock							
										13.46 - 13.66	J	Op	R	Sm	M	Gr	40°	3 joints
										13.66 - 13.88	Fractured and fissile rock							
DC-21	**13.66**	**14.68**			100	11	19			13.66 - 14.68	J	C	R	Sm			50°	10 joints
										14.00	J	Op	R	Sm	P		40°	1 joint
DC-22	**14.68**	**15.21**			91	0	11			14.68 - 15.61	Jfol	C	R	Sm			45°	10 joints
											J	C	R	Sm			15°	1 joint
DC-23	**15.21**	**15.77**			95	20	6			15.21 - 15.67	Jfol	C	R	Sm			40°	5 joints
										15.56	J	Op	R	Sm	Gy, M		40°	1 joint, Sli X

* angle from borehole axis (m)

lig. lightly

prob. probably

X fault striation

s. some

tr. traces of

Sli. slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	71.86
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-103-05
Page	2 of 11
Date of desc.	5 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc

Depth (m)	**Dip**	**Strike**
Date:	April 12, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										15.67 - 15.77	Fractured and fissile rock							
DC-24	**15.77**	**16.66**			100	13	12			15.77 - 16.51	Jfol	C	R	Sm			45°	7 joints
										16.00	J	Op	R	Rug	Gy	Wt	10°-60°	2 joints
										16.36	J	Op	R	Sm	Gy		45°	1 joint, X
										16.55 - 16.66	Fractured rock							
DC-25	**16.66**	**17.40**			89	28	9			16.66 - 17.40	J	C	R	Sm			40°-60°	
DC-26	**17.40**	**18.16**			97	14	12			17.40 - 17.69	J	C	R	Sm			40°	6 joints
										17.69 - 18.16	J	Op	R	Sm	M	Gr, Bg	40°	4 joints
										17.97 - 18.07	J	Op	I	Rug	M	Bg	50°	2 joints
DC-27	**18.16**	**18.87**			94	14	15			18.16 - 18.87	Jfol	C	R	Sm			45°	11 joints
										18.53 - 18.61	J	Op	R	Sm	Gy, Tr Ca	Wt	40°	2 joints, Sli X
										18.39 - 18.45	J	C	I	Rug			20°-60°	2 joints
DC-28	**18.87**	**19.94**			88	55	10			19.19	J	Op	R	Sm	Gy, P	Wt	40°	1 joint
										19.33	Ji	C	I	Rug				1 joint
										19.46	J	C	R	Sm			40°	8 joints
DC-29	**19.94**	**21.26**			92	44	12			19.94 - 21.05	J	C	R	Sm			40°-60°	11 joints
										20.70	J	Op	R	Sm	Gy, Tr M		40°	1 joint, Sli X
										21.05 - 21.26	Fractured rock							
DC-30	**21.26**	**22.22**			93	40	8			21.26 - 22.22	J	C	R	Sm			45°	7 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	71.86
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-103-05
Page	3 of 11
Date of desc.	5 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc

Depth (m)	**Dip**	**Strike**
Date:	April 12, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-30	**21.26**	**22.22**								21.85	J	Op	I	Rug	Tr Cl	Wt	80°	1 joint
DC-31	**22.22**	**23.09**			100	46	10			22.27	Ji	C	I	Rug			85°	1 joint
										22.39	J	Op	R	Sm	Gy		45°	1 joint, Prob X
										22.54 - 23.09	Jfol	C	R	Sm			45°	8 joints
										22.89	J	Op	R	Sm	M		30°	1 joint
DC-32	**23.09**	**24.05**					9			23.09	Jfol	C	R	Sm			40°	7 joints
										23.52 - 23.66	J	Op	R	Sm	M		40°-70°	2 joints
										23.79								1 joint, prob Sli X
DC-33	**24.05**	**24.87**			93	37	11			24.15	J	Op	R	Sm	Tr Py, Ca		40°	1 joint Pro X
										24.23	J	Op	I	Rug	Py		40°	1 joint
										24.52 - 24.87	Jfol	C	R	Sm			40°	7 joints
										24.71 - 24.87	J	Op	I	Rug	Tr M	Bg	15°-80°	2 joints
DC-34	**24.87**	**25.27**			75	18	6			24.87 - 25.27	Jfol	C	R	Sm			45°	5 joints
										24.95	Ji						90°	1 joint
DC-35	**25.27**	**26.11**			100	87	6			25.32	J	Op	R	Sm	P		40°	X
										25.35 - 25.47	J	Op	I	Rug	M	Wt	55°	
										25.60	J	C	R	Sm			40°	1 joint
										25.77	J	C	I	Rug			30°	
										26.11	J	Op	R	Sm	Gy	Wt	50°	1 joint

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	71.86
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-103-05
Page	4 of 11
Date of desc.	5 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc

Depth (m)	**Dip**	**Strike**
Date: April 12, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-36	**26.11**	**26.80**			100	17	5			26.15	J	Op	R	Sm	M, Py	Bg	40°	1 joint, X, Sli
										26.25	J	C	I	Rug			85°	1 joint
										26.30 - 26.65	Jfol	C	R	Sm			40°	3 joints
										26.65 - 26.80	Fractured and fissile rock							
DC-37	**26.80**	**27.71**			93	87	5			26.80 - 27.61	Jfol	C	R	Sm			40°	3 joints
										27.35	J	C	I	Rug			50°	1 joint
										27.71	J	C	R	Sm			50°	1 joint, X, Sli
DC-38	**27.71**	**28.62**			100	41	5			27.71 - 28.09	J	Op	R	Sm	Ca	Wt	50°	2 joints X
										28.09 - 28.37	J	C	R	Sm			50°	3 joints
										28.37 - 28.62	Fractured and fissile rock							
DC-39	**28.62**	**29.90**			100	44	13			28.62 - 29.22	J	Op	R	Sm	Ca	Wt	40°	4 joints, Sli X
										28.82 - 29.22	J	Op	I	Rug	M	Bg	60°	2 joints
										29.22 - 29.70	Jfol	C	R	Sm			40°	7 joints
										29.70 - 29.90	Fractured and fissile rock							
DC-40	**29.90**	**30.68**			96	46	8			29.90 - 30.68	J	C	R	Sm			45°	5 joints
										30.33 - 30.53	J	C	R	Sm	Ca, Tr P	Wt	40°	2 joints, Sli X
											J	C	I	Rug			30°	1 joint
DC-41	**30.68**	**31.67**			100	43	12			30.68 - 31.25	J	C	I	Rug			50°	3 joints
										30.94 - 31.67	Jfol	C	R	Sm			40°	9 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	71.86
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-103-05
Page	5 of 11
Date of desc.	5 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc

Depth (m)	**Dip**	**Strike**
Date:	April 12, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-42	**31.67**	**32.26**			89	20	7			31.78	J	Op	I	Rug	Tr Gy	Wt	45°	1 joint
										31.83 - 32.26	J	Op	R	Sm	M, Tr Ca		45°	6 joints
DC-43	**32.26**	**32.87**			100	59	6			32.26 - 32.87	Jfol	C	R	Sm			40°	3 joints
										32.52 - 32.70	J	C	R	Sm	Ca		45°	2 joints, Sli X
										32.62	J	Op	R	Sm	Tr Cl	Bg	50°	1 joint
DC-44	**32.87**	**33.65**			100	59	7			33.31	J	Op	R	Sm	Gy, Talc	Wt	55°	1 joint
										33.35 - 33.65	Jfol	C	R	Sm			40°	5 joints
										33.49	J	Op	R	Sm	Tr Ca		40°	1 joint, X
DC-45	**33.65**	**34.47**			100	55	7			33.65 - 34.18	J	C	R	Sm				4 joints
										34.21	J	C	R	Sm	Gy		40°	1 joint, prob X
										34.26 - 34.47	J	Op	I	Rug	M	Bg	35°	2 joints
DC-46	**34.47**	**35.86**			100	71	12			34.47 - 34.83	J	Op	R	Sm	Tr Ca	Wt	40°	2 joints
										34.70 - 35.05	Jfol	C	R	Sm			40°	4 joints
										35.22 - 35.55					Tr Ca, P, Gy		40°	6 joints, Sli X
										35.55 - 35.86	Severely fractured rock							
DC-47	**35.86**	**36.80**			100	77	6			35.55 - 36.29	J	C	R	Rug	Py		50°	2 joints
										36.29 - 36.31	Jfol	C	R	Rug			30°	2 joints
										36.60	J	Op	R	Sm	Gy		45°	1 joint, prob X
										36.73	J	Op	R	Rug	Ca		70°	1 joint

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	71.86
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-103-05
Page	6 of 11
Date of desc.	5 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc

Depth (m)	**Dip**	**Strike**
Date:	April 12, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-48	**36.80**	**37.59**			95	51	9			36.80 - 37.59	J	C	I	Rug			60°	4 joints
										36.80 - 37.11	J	Op	R	Sm	P		35°	3 joints
										37.13	J	Op	R	Sm	M	Gr		1 joint
										37.41	J	Op	R	Sm	Tr M	Bg	70°	1 joint
DC-49	**37.59**	**38.20**			100	51	6			37.59 - 38.20	Jfol	C	R	Sm			40°	5 joints
											J	Op	R	Sm	M	Gr	40°	1 joint
DC-50	**38.20**	**38.81**			100	39	5			38.20 - 38.81	J	Op	I	Rug	Tr M	Br	20°-50°	3 joints
										38.53 - 38.60	J	Op	R	Sm	Gy, Ca	Wt	40°	2 joints, Pro X
DC-51	**38.81**	**39.85**			100	97	4			38.81 - 39.85	Jfol	C	R	Sm			40°	
DC-52	**39.85**	**41.37**			97	90	6			40.25	J	Op	R	Sm	Ca		50°	1 joint
										40.30	J	Op	I	Rug	Ca	Bg	25°	1 joint
										40.35 - 41.37	J	C	I	Rug			40°-55°	3 joints
										41.02	J	Op	R	Sm	Ca	G	35°	1 joint
DC-53	**41.37**	**42.90**			100	84	7			41.37 - 42.90	Jfol	C	R	Sm			40°	4 joints
										42.30 - 42.90	J	Op	I	Rug	Py, M		35°	3 joints
DC-54	**42.90**	**44.42**			100	70	10			42.90 - 44.90	J	C	R	Sm			25°-40°	8 joints
										43.83 - 43.98	J	Op	R	Sm	G, M	Wt	40°	2 joints, Sli X
										44.53	Jfol	C	R	Sm			45°	
DC-55	**44.42**	**44.88**			100	67	2			44.66	J	Op	R	Sm	M		45°	1 joint, Sli X

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	71.86
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-103-05
Page	7 of 11
Date of desc.	5 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc

Depth (m)	**Dip**	**Strike**
Date:	April 12, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-56	**44.88**	**45.95**			100	76	10			44.88 - 45.95	J	C	R	Sm			30°-50°	6 joints
										44.88 - 45.95	Jfol	C	R	Sm			50°	3 joints
										45.42	Ji	Op	I	Rug			90°	1 joint
DC-57	**45.95**	**47.52**			100	85	9			45.95 - 46.85	J	C	I	Rug			40°	4 joints
										46.41 - 47.27	J	Op	R	Sm	Ca, M	Br	30°	2 joints, prob X
										46.78	J	Op	R	Sm	Ca	G	40°	1 joint
										47.06 - 47.52	Jfol	C	R	Sm			40°	2 joints
DC-58	**47.52**	**48.86**					10			47.52 - 48.86	J	Op	R	Sm	Ca	Wt	35°	5 joints
										47.52 - 48.86	Jfol	C	R	Sm			50°	4 joints
DC-59	**48.86**	**49.78**			100	69	6			47.52 - 48.00	J	C	R	Sm			40°-50°	2 joints
										48.00					Ca	Wt	40°	1 joint
										48.00 - 48.15	J	C	I	Rug			30°	2 joints
										48.55	J	Op	R	Sm	M, P	Br	40°	1 joint
DC-60	**49.78**	**50.52**			100	65	6			49.78 - 50.52	Jfol	C	R	Sm			40°	3 joints
										49.94	J	Op	R	Sm	Ca		40°	1 joint
										50.32 - 50.52	J	C	R	Sm			60°	2 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	71.86
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-103-05
Page	8 of 11
Date of desc.	5 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc

Depth (m)	**Dip**	**Strike**
Date:	April 12, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-61	**50.52**	**51.99**			100	68	9			50.52 - 51.22	J	C	I	Rug			40°	4 joints
										50.82	J	Op	I	Rug	Ca, P		15°	1 joint
										51.30	Jfol	C	R	Sm			45°	1 joint
										51.54 - 51.99	J	Op	R	Sm	Ca	Wt	45°	3 joints
DC-62	**51.99**	**52.85**			100	77	9			51.99 - 52.85	J	C	R	Sm			40°-50°	
DC-63	**52.85**	**54.43**			100	70	10			53.14 - 53.70	J	Op	R	Sm	Ca	Wt	35°	2 joints
										52.85 - 53.45	J	C	I	Rug			20°-50°	6 joints
										54.30	J	Op	I	Sm	Py, Gy	Gr	40°	X
DC-64	**54.43**	**55.09**			100	100	2			54.73	J	C	I	Rug			50°	1 joint
										54.91	Jfol	C	R	Sm			35°	1 joint
DC-65	**55.09**	**56.61**			100	86	7				J	C	I	Rug			40°	5 joints
											J	Op	R	Sm	Ca, Gy	Gr	30°	2 joints, Sli X
DC-66	**56.61**	**58.14**			100	86	8			56.61 - 58.14	Jfol	C	R	Sm			45°	5 joints
										56.61 - 58.14	J	C	I	Rug			45°-60°	3 joints
DC-67	**58.14**	**59.66**			100	84	12			58.42	J	C	R	Sm			50°	1 joint
										58.56 - 58.72	Jfol	C	R	Sm			40°	5 joints
										58.56 - 59.66	J	C	I	Rug			50°	
										59.38	J	Op	R	Sm	Ca	Wt	40°-50°	2 joints

* angle from borehole axis (m)

lig. lightly

prob. probably

X fault striation

s. some

tr. traces of

Sli. slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	71.86
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-103-05
Page	9 of 11
Date of desc.	5 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc

Depth (m)	**Dip**	**Strike**
Date:	April 12, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-68	**59.66**	**61.18**			100	80	12			59.83 - 60.23	J	Op	R	Sm	Ca	Gr	40°	2 joints, pro X
										60.01 - 60.22	Jfol	C	R	Rug			50°	3 joints
										60.01	J	C	I	Rug			45°-60°	7 joints
										60.95	J	Op	R	Sm	M		45°	1 joint
DC-69	**61.18**	**62.36**			100	92	8			61.18 - 61.38	J	C	R	Rug			40°	2 joints
										61.38 - 62.36	Jfol	C	R	Sm			40°	2 joints
										61.73 - 62.36	J	Op	R	Sm	Ca	Wt	40°	3 joints, Sli X
										62.26	J	C	R	Sm			50°	1 joint
DC-70	**62.36**	**63.93**			100	75	16			62.36 - 63.93	Jfol	C	R	Sm			50°	12 joints
										62.86 - 63.93	J	C	R	Sm			15°	4 joints
DC-71	**63.93**	**65.30**			100	69	6			63.93 - 64.60	Jfol	C	R	Sm			30°-50°	5 joints
										64.36	J	C	I	Rug			50°	
										64.51	J	Op	R	Sm	Ca, M		40°	
										64.60 - 65.30	Fractured and fissile rock							
DC-72	**65.30**	**66.80**			95	83	9			65.30 - 65.61	Ji	C	I	Rug			90°	2 joints
										65.58 - 66.80	Jfol	C	R	Sm			40°	4 joints
										65.96	J	C	I	Rug			45°	1 joint
										66.16	J	Op	I	Rug	P		40°	1 joint
										66.44	J	Op	R	Sm	M	Gr	40°	1 joint

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	71.86
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-103-05
Page	10 of 11
Date of desc.	5 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc

Depth (m)	**Dip**	**Strike**
Date:	April 12, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-73	**66.80**	**68.35**			100	95	7			66.80 - 68.35	Jfol	C	R	Sm			35°	4 joints
										67.22 - 67.92	J	Op	R	Sm	Ca	Wt	50°	2 joints
										67.81	J	C	I	Rug			35°	1 joint
DC-74	**68.35**	**69.90**			97	68	8			68.85 - 70.76	Jfol	C	R	Sm			50°	3 joints
										68.73 - 69.65	Ji							2 joints
										69.29	J	Op	R	Sm	Ca, P, M	Wt	30°	1 joint
										69.71	J	Op	R	Sm	Ca, P	Wt	45°	1 joint, Sli X
										69.72	J	Op	I	Rug	Ca	Wt	30°	1 joint
DC-75	**69.90**	**70.76**			100	70	8			70.60 - 70.76	Jfol	C	R	Sm			50°	3 joints
										70.20 - 70.51	J	C	I	Rug				2 joints
										69.95 - 70.40	J	C	R	Sm			25°	3 joints
DC-76	**70.76**	**71.86**			96	82	10			70.76 - 71.80	Jfol	C	R	Sm			45°	7 joints
										71.26 - 71.74	J	C	R	Sm			40°	2 joints
										71.30	J	Op	R	Sm	Tr P		50°	1 joint
DC-77	**71.86**	**73.43**			100	96	10			71.86 - 72.75	Jfol	C	R	Sm			40°	6 joints
										72.91	J	Op	R	Sm	Tr Ca		50°	1 joint, pro X
										72.88	J	Op	R	Sm	Tr Ca, Py		30°	1 joint
										72.93 - 73.43	J	C	R	Rug			50°	2 joints

* angle from borehole axis (m)

lig. lightly

prob. probably

X fault striation

s. some

tr. traces of

Sli. slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	71.86
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-103-05
Page	11 of 11
Date of desc.	5 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc

Depth (m)	**Dip**	**Strike**
Date:	April 12, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-78	**73.43**	**74.95**								73.66	J	Op	I	Rug	Py, Ca		40°	2 joints
										73.96 - 74.95	Jfol	C	R	Sm			50°	8 joints
										74.89	J	Op	R	Sm	M	B	50°	1 joint
DC-79	**74.95**	**76.48**			100	97	8			74.95 - 75.73	J	C	R	Rug			30°	3 joints
										74.83 - 76.48	Jfol	C	R	Sm			50°	3 joints
										76.16	J	Op	R	Sm	P		30°	1 joint
DC-80	**76.48**	**78.00**			101	89	9			76.48 - 78.00	J	Op	R	Sm	P		25°-40°	2 joints
										76.48 - 78.00	Jfol	C	R	Sm			45°	3 joints
										76.48 - 78.00	J	C	I	Rug			30°-45°	4 joints
DC-81	**78.00**	**79.53**			100	80	10			78.00 - 79.53	J	C	I	Rug			15°-45°	2 joints
										78.00 - 79.53	Jfol	C	R	Sm			45°	5 joints
										78.46 - 78.93	J	Op	R	Rug	P		20°-35°	2 joints
										79.30	Jfol	Op	R	Sm	M	B	50°	1 joint

* angle from borehole axis (m)

lig. lightly **s.** some

prob. probably **tr.** traces of

X fault striation **Sli.** slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	4.36
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-104-05
Page	1 of 3
Date of desc.	31 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 14, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-14	**8.07**	**8.56**			94	0	0			8.07 - 8.56	Rock was mechanically crushed							
DC-15	**8.56**	**9.27**			89	35	5			8.56 - 8.98	Jfol	C	R	Sm			40°	
										8.98 - 9.27	Fractured and fissile rock							
DC-16	**9.27**	**10.72**			59	12	4			9.37	J	Op	I	Rug			20°	
										10.30 - 10.35	Jfol	C	R	Sm	Tr Py		45°	2 joints
										10.35 - 10.45	J	Op	R	Sm	M, Gy		45°	Prob Sli, X
										10.45	Rock was mechanically crushed							
DC-17	**10.72**	**10.85**			85	100	1			10.85	J	Op	I	Rug	Ex		40°	
DC-18	**10.85**	**12.37**			100	72	13			11.07	Ji	C	R	Sm			90°	
										11.17 - 11.21	J	Op	R	Rug	Tr Py		40°	2 joints
										11.37 - 12.37	Jfol	C	R	Sm			40°	6 joints
										11.37 - 12.37	J	C	I	Rug			20°	3 joints
DC-19	**12.37**	**13.89**			100	76	12			12.37 - 13.07	Jfol	C	R	Sm			30°	5 joints
										13.19	J	C	I	Rug			70°	
										13.28 - 13.89	Jfol	C	R	Sm			35°	6 joints
DC-20	**13.89**	**15.42**			100	92	8			13.89 - 14.24	Jfol	Op	R	Sm	Tr Ca		30°	2 joints, Prob Sli
										14.43	Ji	C	I	Rug			50°	1 joint
										14.53 - 15.42	Jfol	C	R	Sm			40°	5 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	4.36
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-104-05
Page	2 of 3
Date of desc.	31 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 14, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-21	**15.42**	**16.84**			100	48	14			15.42 - 16.37	Jfol	C	R	Sm			40°	6 joints
										16.37 - 16.57	Jfol	Op	R	Sm	Cl, Gy (?)	Bg	40°	3 joints, Sli, X
										16.45	Jfol	Op	I	Rug			50°	1 joint
										16.57 - 16.84	Jfol	C	R	Sm			50°	4 joints
DC-22	**16.84**	**16.94**			100	0	2			16.85	J	Op	R	Sm			40°	X
										16.94	J	C	R	Sm				
DC-23	**16.94**	**19.66**			53	11	12			16.94 - 17.33	J	C	R	Sm			40°	7 joints
										17.44	J	Op	I	Sm	Gy, M		35°	1 joint, Prob Sli
										17.44 - 17.77	Rock was mechanically crushed							
										17.77 - 17.94	J	Op	R	Sm	Ca		40°	4 joints, prob Sli
										17.94 - 19.66	Crushed rock							
DC-24	**19.66**	**19.99**			76	0	0				Rock was mechanically crushed							
DC-25	**19.99**	**21.51**			91	28	19			20.01	J	Op	R	Sm	Gy (?)		35°	1 joint, Sli X
										20.07 - 20.47	J	C	R	Sm			45°	5 joints
										20.50	J	Op	R	Sm	Gy (?)		45°	1 joint, Prob X
										20.60 - 21.51	J	C	R	Sm			45°	12 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	4.36
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-104-05
Page	3 of 3
Date of desc.	31 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.,M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date: April 14, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-26	**21.51**	**23.01**			100	30	19			21.51 - 21.95	Jfol	C	R	Sm				5 joints
										21.96	J	Op	R	Sm	Gy, Ca			1 joint, Prob Sli, X
										22.10 - 22.29	Jfol	C	R	Sm				3 joints
										22.30 - 22.67	J	Op	R	Sm				1 joint, Prob Sli
										22.67 - 23.01	Rock was mechanically crushed							
DC-27	**23.01**	**24.56**			84	10	12			23.01 - 23.57	Jfol	C	R	Sm			50°	8 joints
										23.57 - 23.92	Fractured and fissile rock							
										23.92 - 24.56	Jfol	C	R	Sm			50°	4 joints
DC-28	**24.56**	**25.15**			80	0	10			24.61	Jfol	C	R	Rug			50°	1 joint
										24.61	J	Op	I	Rug	Ca	Wt	50°	1 joint, Sli X
										24.65 - 24.95	Jfol	C	R	Sm			50°	8 joints
										25.00	J	Op	I	Rug	Ca	Wt	40°	Sli, X

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	25.65
Core barrel size	NQ-3
Dip	90°
Strike	N/A

Borehole No	BH-105-05
Page	1 of 4
Date of desc.	15 avril 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 18, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-14	**8.59**	**9.14**			38	0				8.59 - 9.14	Fragments of rock							
DC-15	**9.14**	**9.63**			86	0	4			9.14 - 9.39	Fragments of rock							
										9.39 - 9.63	4 Jfol	C	R	Sm			30°	
DC-16	**9.63**	**10.44**			100	85	3			9.67	J	C	R	Sm			70°	
										9.74 and 10.30	2 Jfol	C	R	Sm			30°	
											Ji = 5 at various angle							
DC-17	**10.44**	**11.51**			100	34	15			10.48	Jfol	C	R	Sm	Tr Ca	Wt	30°	
										10.58 - 10.72	3 J	Op	R	Sm			70°	
										10.73 - 10.79	3 Jfol	C	R	Sm			30°	
										10.88	J	Op	R	Sm	Tr M	Br	70°	
										10.89 - 10.97	2 Jfol	C	R	Sm			30°	
										11.06 - 11.24	3 J	Op	R	Sm	Tr M	Br	70°	
										11.29 - 11.38	2 Jfol	C	R	Sm			30°	
											Ji = 1 Following the bedding							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	25.65
Core barrel size	NQ-3
Dip	90°
Strike	N/A

Borehole No	BH-105-05
Page	2 of 4
Date of desc.	15 avril 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 18, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-18	**11.51**	**12.53**			100	100	7			11.51 and 11.61	2 Jfol	C	R	Sm			30°	
										11.87	J	Op	I	Rug	Ca	Wt	40°	
										12.03 and 12.13	2 Jfol	C	R	Sm			30°	
										12.33 and 12.47	2 J	Op	R	Sm	Ca, P	Wt, Y	40°	
											Ji = Following the bedding							
DC-19	**12.53**	**14.05**			100	93	11			12.78 and 13.01	2 Jfol	C	R	Sm			30°	
										13.04	J	Op	R	Sm	Ca	Wt	40°	
										13.35 - 14.05	8 Jfol	C	R	Sm			35°-40°	
											Ji = 4 Following the bedding							
DC-20	**14.05**	**15.34**			98	65	9			14.17 - 15.24	9 Jfol	C	R	Sm			35°-40°	
										15.24 - 15.34	Fragments of rock							
											Ji = 4 at various angle							
DC-21	**15.34**	**16.15**			100	85	6			15.34 - 15.66	3 Jfol	C	R	Sm			40°	
										15.79	J	Op	R	Sm	Ca	Wt	70°	
										16.00	Jfol	Op	R	Sm	Tr M	G	40°	
										16.07	Jfol	C	R	Sm			40°	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	25.65
Core barrel size	NQ-3
Dip	90°
Strike	N/A

Borehole No	BH-105-05
Page	3 of 4
Date of desc.	15 avril 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 18, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-22	**16.15**	**17.09**			100	75	6			16.30 - 17.03	6 Jfol	C	R	Sm			40°	
											Ji = 5 at various angle							
DC-23	**17.09**	**17.83**			100	66	6			17.21 and 17.28	2 Jfol	Op	R	Sm	S, M	Br	40°	
										17.43 and 17.56	2 J	C	R	Sm			50°	
										17.65	Jfol	C	R	Sm			40°	
										17.71	J	C	I	Rug			55°	
											Ji = 4 at various angle							
DC-24	**17.83**	**18.62**			100	54	9			17.83 - 18.62	9 Jfol	C	R	Sm			40°	
DC-25	**18.62**	**19.99**			100	71	11			18.62 - 19.99	11 Jfol	C	R	Sm			40°	
DC-26	**19.99**	**20.42**			100	23	10			19.99 - 20.42	10 Jfol	C	R	Sm	Ca	Wt	40°	
DC-27	**20.42**	**21.67**			100	84	10			20.42 - 21.67	10 Jfol	C	R	Sm			40°	
DC-28	**21.67**	**22.23**			100	55	8			21.67 - 22.23	8 Jfol	C	R	Sm			40°	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	25.65
Core barrel size	NQ-3
Dip	90°
Strike	N/A

Borehole No	BH-105-05
Page	4 of 4
Date of desc.	15 avril 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 18, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-29	**22.23**	**22.99**			100	79	6			22.31	J	Op	I	Rug	S, M	Br	70°-90°	
										22.42 and 22.52	2 Jfol	Op	R	Sm	S, M	G	40°	
										22.73	J	C	R	Sm			55°	
										22.52 and 22.88	2 Jfol	C	R	Sm			40°	
											Ji = 4 at various angle							
DC-30	**22.99**	**24.28**			70	35	3			23.16 - 23.58	No recovery (?)							
										23.64	Jfol	Op	R	Sm	M	G	40°	
										24.11 and 24.21	2 Jfol	C	R	Sm			40°	
											Ji = 4 Following the bedding							
DC-31	**24.28**	**25.02**			100	76	4			24.28 - 25.02	4 Jfol	C	R	Sm			40°	
											Ji = 4 Following the bedding							
DC-32	**25.02**	**25.65**			100	41	7			25.02 - 25.65	7 Jfol	C	R	Sm			40°	
											Ji = 6 Following the bedding							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	19.12
Core barrel size	HW
Dip	90°
Strike	N/A

Borehole No	BH-106-05
Page	1 of 3
Date of desc.	22 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	Dip	Strike
Date:	April 1st, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-9	**6.10**	**6.83**			79	0				6.10 - 6.83	Rock was mechanically crushed							
DC-10	**6.83**	**7.72**			69	20				6.83 - 7.72	Rock was mechanically crushed							
DC-11	**7.72**	**8.31**			83	0	6			7.72 - 8.31	Jfol	C	R	Sm			45°	
DC-12	**8.31**	**9.32**			100	12	17			8.31 - 9.32	J	C	R	Sm			25°-45°	
DC-13	**9.32**	**9.93**			100	0	12			9.32 - 9.93	J	C	R	Sm			30°-50°	
DC-14	**9.93**	**10.89**			100	0	9			9.93 - 10.23	J	C	R	Sm			35°	
										10.23 - 10.89	Severely fractured rock							
DC-15	**10.89**	**11.40**			100	20	4			10.89 - 11.09	Jfol	C	R	Sm			40°	
										11.09 - 11.40	Severely fractured rock							
DC-16	**11.40**	**12.42**			93	0	9			11.40 - 11.80	J	C	R	Sm			35°	
										11.80 - 12.42	Severely fractured rock							
DC-17	**12.42**	**13.31**								12.42 - 12.77	J	Op	R	Sm			30°-45°	
										12.77 - 13.31	Severely fractured rock							
DC-18	**13.31**	**14.00**			90	0				13.31 - 14.00	Severely fractured rock							
DC-19	**14.00**	**14.71**			100	15	14			14.00 - 14.60	Jfol	C	R	Sm			45°	
										14.60 - 14.71	J	Op	R	Sm	Tr Ca	Wt	30°	
DC-20	**14.71**	**15.52**			100	0				14.71 - 15.52	Rock was mechanically crushed							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	19.12
Core barrel size	HW
Dip	90°
Strike	N/A

Borehole No	BH-106-05
Page	2 of 3
Date of desc.	22 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	**Dip**	**Strike**
Date:	April 1st, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-21	**15.52**	**16.36**			90	20	3			15.52 - 16.11	Rock was mechanically crushed							
										16.11	J	Op	R	Sm	Ca	Bg	25°	1 joint
										16.11 - 16.36	J	C	R	Sm			40°	2 joints
DC-22	**16.36**	**17.04**			100	83	8			16.36 - 16.72	Jfol	C	R	Sm			45°	4 joints
										16.72 - 17.04	J	C	I	Rug			45°	3 joints
										17.04	J	Op	R	Sm	Ca	Wt	30°	1 joint
DC-23	**17.04**	**17.67**			100	24	8			17.04 - 17.19	J	C	I	Rug			40°	2 joints
										17.25	J	C	R	Sm			45°	1 joint
										17.31	J	Op	R	Sm	Ca	Wt	20°	1 joint
										17.31 - 17.67	J	C	R	Sm			20°-45°	4 joints
DC-24	**17.67**	**18.54**			100	31	12			17.67 - 18.42	Jfol	C	R	Sm			30°-45°	10 joints
										18.42	J	Op	R	Sm	Tr P		30°	1 joint
										18.54	J	C	R	Sm			45°	1 joint
DC-25	**18.54**	**19.55**			100	40	13			18.54 - 18.80	Jfol	C	R	Sm			45°	4 joints
										18.80	J	Op	R	Sm	Ca + Tr P		25°	1 joint
										18.85 - 19.55	Jfol	C	R	Sm			45°	7 joints
										19.55	J	Op	R	Sm	Ca	Wt	25°	1 joint
DC-26	**19.55**	**20.12**			100	88	4			19.55 - 20.12	J	C	R	Sm			25°-45°	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	19.12
Core barrel size	HW
Dip	90°
Strike	N/A

Borehole No	BH-106-05
Page	3 of 3
Date of desc.	22 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	**Dip**	**Strike**
Date:	April 1st, 2005	

Run No.	Length (m)		*Length (ft-in)*		Recovery	RQD	Number	Return of water		DESCRIPTION								
	from	to	*From*	*to*	(%)	(%)	of joints	(%)	Color	Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-27	**20.12**	**21.41**			100	28	9			20.12 - 20.47	J	C	R	Sm			45°	
										20.47 - 20.70	J	Op	R	Sm	Ca		20°	
										20.70 - 21.00	J	C	R	Sm			45°	
										21.00 - 21.41	Severely fractured rock							
DC-28	**21.41**	**21.64**			100	52	2			21.50	J	Op	I	Rug	Ca		20°	
										21.64	J	Op	R	Sm			45°	
DC-29	**21.64**	**23.16**			100	80	12			21.64 - 22.04	J	C	R	Sm			45°	3 joints
										22.04 - 22.44	Ji	C	I	Rug			45°	2 joints
										22.44 - 23.16	J	C	R	Sm			45°	7 joints
DC-30	**23.16**	**24.68**			100	77	12			23.16 - 23.81	J	C	R	Sm			45°	3 joints
										23.81	Ji	C	I	Rug			45°	
										24.28	J	Op	R	Sm	Tr Ca		30°-45°	2 joints
										24.28 - 24.68	J	Op	R	Sm	Tr Py		45°	6 joints
DC-31	**24.68**	**25.22**			100	57	3			24.68 - 25.22	J	Op	R	Rug	Ca		45°	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	18.04
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-107-05
Page	1 of 3
Date of desc.	23 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	Dip	Strike
Date:	April 1st, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-11	**6.98**	**7.47**			58	0				6.98 - 7.47	Fractured and fissile rock							
DC-12	**7.47**	**7.90**			65	0				7.47 - 7.90	Rock was mechanically crushed							
DC-13	**7.90**	**8.00**			100	0				7.90 - 8.00	Fractured rock							
DC-14	**8.00**	**8.69**			96	30	5			8.00 - 8.10	J	Op	R	Sm	Cl	Wt		2 joints
										8.20	Ji	C	I	Rug				
										8.40 - 8.69	J	Op	R	Sm	Cl	Wt	25°-45°	2 joints
DC-15	**8.69**	**8.92**			100	48	4			8.69 - 8.92	J	Op	R	Sm	Tr M	g	45°	
DC-16	**8.92**	**9.80**			100	25	9			8.92 - 9.80	J	C	R	Sm			45°	
DC-17	**9.80**	**10.54**			100	0	10			9.80 - 10.54	J	C	R	Sm			45°	
DC-18	**10.54**	**11.81**			94	46	13			10.54 - 11.71	J	C	R	Sm			45°	
										11.71 - 11.81	Fractured and fissile rock							
DC-19	**11.81**	**12.83**			65	12				11.81 - 12.83	Severely fractured rock							
DC-20	**12.83**	**13.61**			58	31				12.83 - 13.13	J	Op	R	Sm	Tr M		40°	
										13.13 - 13.61	Severely fractured rock							
DC-21	**13.61**	**13.84**			100	0				13.61 - 13.81	Severely fractured rock							
DC-22	**13.84**	**14.35**			100	0				13.84 - 14.35	Fractured and fissile rock							
DC-23	**14.35**	**15.67**			92	22	9			14.35 - 15.67	J	C	R	Sm			40°	
DC-24	**15.67**	**16.66**			100	15	5			15.67 - 16.16	J	C	R	Sm			40°	
										16.16 - 16.66	Severely fractured rock							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	18.04
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-107-05
Page	2 of 3
Date of desc.	23 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	**Dip**	**Strike**
Date:	April 1st, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-25	**16.66**	**18.19**			92	48	14			16.81	J	C	R	Rug			40°	
										16.98	Ji	Op	I	Rug			80°	
										17.02	J	Op	R	Sm	G		40°	
										17.07 - 17.22	J	C	I	Rug	Tr Cl	Wt	20°	3 joints
										17.25	J	Op	R	Sm	Ca	Wt	20°	1 joint
										17.46 - 18.19	Jfol	C	R	Sm			30°-45°	7 joints
DC-26	**18.19**	**18.82**			100	15	5			18.19 - 18.65	J	Op	R	Sm	Tr Cl	Wt	25°-45°	
										18.65 - 18.82	Fractured and fissile rock							
DC-27	**18.82**	**19.71**			100	58	11			18.82 - 19.07	Jfol	Op	R	Sm			45°	2 joints
										19.07 - 19.41	Ji	C	I	Rug				3 joints
										19.41 - 19.71	J	Op	R	Sm	Tr Ca		30°-40°	6 joints
DC-28	**19.71**	**20.70**			100	12	13			19.71 - 20.35	Jfol	C	R	Sm			45°	7 joints
										20.35 - 20.47	J	Op	I	Rug	Ex	Bg	25°	2 joints
										20.47 - 20.70	Jfol	C	R	Sm			45°	4 joints
DC-29	**20.70**	**21.23**			100	18	9			20.70 - 20.99	Jfol	C	R	Sm			45°	5 joints
										20.99	J	Op	R	Sm	Ca		30°	1 joint
										20.99 - 21.23	Jfol	C	R	Sm			45°	3 joints
DC-30	**21.23**	**21.64**			98	0	8			21.23 - 21.64	Jfol	C	R	Sm			45°	
DC-31	**21.64**	**22.25**			96	46	8			21.64 - 22.25	Jfol	C	R	Sm			45°	

* angle from borehole axis (m)

lig. lightly

prob. probably

X fault striation

s. some

tr. traces of

Sli. slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	18.04
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-107-05
Page	3 of 3
Date of desc.	23 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	**Dip**	**Strike**
Date:	April 1st, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-32	**22.25**	**22.89**			76	22	7			22.25 - 22.34	Jfol	C	R	S			45°	2 joints
										22.39	J	Op	I	Rug	Tr P		30°	
										22.44	Jfol	C	R	Sm			45°	
										22.49	J	Op	I	Rug	Tr P		30°	
										22.52 - 22.89	J	C	R	S			30°-45°	2 joints
DC-33	**27.89**	**24.23**			94	46	20			22.89 - 24.23	J	C	R	Sm			45°	
DC-34	**24.23**	**25.02**			100	57	8			24.23 - 25.02	Jfol	C	R	Sm			50°	2 joints
										24.23 - 25.02	J	C	I	Sm			30°-50°	6 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	72.10
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-108-05
Page	1 of 9
Date of desc.	23 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	Dip	Strike
Date:	April 6, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-12	**7.44**	**7.57**			100	0					Fractured and fissile rock							
DC-13	**7.57**	**8.74**			100	49	6			7.57 - 8.03	Fractured and fissile rock							Sli
										8.03 - 8.32	Jfol	C	R	Sm			40°	4 joint
										8.45	Ji	C	I	Rug			90°	
										8.74	Jfol	C	R	Sm			40°	
DC-14	**8.74**	**9.53**			100	13	13			8.74 - 8.90	Jfol	C	R	Sm			40°	3 joints
										8.90 - 9.53	Fractured and fissile rock							
DC-15	**9.53**	**10.59**			90	59	10			9.53 - 10.27	Jfol	C	R	Sm				4 joints
										10.37	J	Op	R	Sm	Tr M	bg		
										10.42 - 10.59	Jfol	C	R	Sm				5 joints
DC-16	**10.59**	**11.74**			91	26	14			10.59 - 11.74	J	Op	R	Sm	Tr M	bg		
DC-17	**11.74**	**12.12**			100	0	6			11.74 - 11.86	J	Op	R	Sm	Tr P			Sli, 2joints
										11.95 - 12.12	J	C	R	Sm			20°-45°	4 joints
DC-18	**12.12**	**12.95**			100	40	18			12.12 - 12.49	Jfol	C	R	Sm			45°	9 joints
										12.67	J	Op	R	Sm			40°	1 joint, Sli
										12.72 - 12.95	Jfol	C	R	Sm			45°	8 joints
DC-19	**12.95**	**13.64**			96	16	10			12.95 - 13.64	Jfol	C	R	Sm			45°	
DC-20	**13.64**	**15.16**			53	0				13.64 - 15.16	Rock was mechanically crushed							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	72.10
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-108-05
Page	2 of 9
Date of desc.	23 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	Dip	Strike
Date:	April 6, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-21	**15.16**	**16.46**			96	56	14			15.16 - 15.96	J	C	R	Sm			45°	
										16.11 - 16.46	J	Op			Tr M	Br	45°	4 joints
DC-22	**16.46**	**18.00**			100	49	17			16.46 - 17.46	Jfol	C	R	Sm			40°	9 joints
										17.46 - 17.80	J	C	I	Rug			15°-40°	4 joints
										17.80 - 18.00	Jfol	C	R	Sm			40°	4 joints
DC-23	**18.00**	**19.58**			96	72	14			18.00 - 18.77	Jfol	C	R	Sm			40°	7 joints
										18.80	J	Op	R	Sm	Ca		20°	
										18.95 - 19.58	Jfol	C	R	Sm			40°	6 joints
DC-24	**19.58**	**20.75**			98	49	9			19.58 - 20.31	J	C	R	Sm			40°	4 joints
										20.41	J	Op	R	Sm	Tr M		40°	Sli X
										20.45 - 20.75	J	C	R	Sm			40°	5 joints
DC-25	**20.75**	**22.88**			95	46	15			20.75 - 22.05	Jfol	C	R	Sm			40°	11 joints
										22.05 - 22.13	J	Op	R	Rug	Ca + Tr P		40°	2 joints
										22.13 - 22.28	Jfol	C	R	Sm			40°	2 joints
DC-26	**22.28**	**22.71**			100	26	6			22.28 - 22.71	J	C	I	Rug	Tr M		40°	
DC-27	**22.71**	**24.28**			96	78	10			22.71 - 24.28	Jfol	C	R	Sm			45°	
DC-28	**24.28**	**25.80**			100	100	6			24.28 - 24.75	J	C	I	Rug			35°	2 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	72.10
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-108-05
Page	3 of 9
Date of desc.	23 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	**Dip**	**Strike**
Date:	April 6, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-28	**24.28**	**25.80**			100	100	6			24.28 - 24.75	J	C	I	Rug			35°	2 joints
										24.75 - 25.02	Jfol	C	R	Sm			45°	2 joints
										25.02 - 25.56	Ji	C	I	Rug				2 joints
										25.80	Jfol	C	R	Sm			45°	
DC-29	**25.80**	**27.38**			100	92	8			25.80 - 27.38	Jfol	C	R	Sm			45°	
DC-30	**27.38**	**28.91**			100	72	14			27.38 - 28.91	Jfol	C	R	Sm			45°	
DC-31	**28.91**	**30.43**			100	78	11			29.12	J	C	I	Rug			20°	
										29.24 - 29.54	Jfol	C	R	Sm			45°	2 joints
										29.65 - 29.95	Fractured rock							8 joints
										30.43	Jfol	C	R	Sm				1 joint
DC-32	**30.43**	**31.95**			100	77	13			30.43 - 31.55	Jfol	C	R	Sm			45°	8 joints
										31.63	J	C	I	Rug			80°	
										31.69 - 31.95	Jfol	C	R	Sm			40°	4 joints
DC-33	**31.95**	**33.48**			100	70	13			31.95 - 32.49	Jfol	C	R	Sm			40°	3 joints
										32.49 - 32.63	J	O	R	Rug	Ca, M		40°	3 joints
										32.63 - 33.48	Jfol	C	R	Sm			40°	7 joints
DC-34	**33.48**	**35.00**			100	86	9			33.48 - 34.37	Jfol	C	R	Sm			40°	5 joints
										34.37 - 35.00	J	Op	R	Rug	Tr Ca		20°-45°	4 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	72.10
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-108-05
Page	4 of 9
Date of desc.	23 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	Dip	Strike
Date:	April 6, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-35	**35.00**	**36.52**			100	91	8			35.00 - 36.52	Ji	C	R	Sm			80°	
DC-36	**36.52**	**38.05**			100	63	15			36.52 - 36.62	J	C	I	Rug			45°	10 joints
										36.77 - 37.83	J	Op	R	Sm	Ca		45°	
										37.85 - 38.05	Jfol	C	R	Sm			45°	4 joints
DC-37	**38.05**	**39.57**			100	81	12			38.05 - 39.57	J	C	R	Sm			25°-45°	
DC-38	**39.57**	**41.00**			100	31	19			39.57 - 41.00	J	C	R	Sm			25°-45°	
DC-39	**41.00**	**41.76**			96	48	8			41.00 - 41.48	J	C	R	Sm			25°-45°	6 joints
										41.48 - 41.76	Fractured and fissile rock							
DC-40	**41.76**	**42.62**			100	88	7			41.89	Jfol	C	R	Sm			50°	
										42.19 - 42.33	J	Op	R	Rug	Ca			3 joints, Sli X
										42.33 - 42.62	J	C	I	Rug			20°-50°	3 joints
DC-41	**42.62**	**44.15**			100	71	17			42.62 - 43.11	J	Op	R	Rug	Ca			5 joints, Sli X
										43.11 - 43.85	Jfol	C	R	Sm			45°	6 joints
										43.90	J	Op	R	Rug	M		45°	
										43.97 - 44.15	Jfol	C	R	Sm			45°	5 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	72.10
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-108-05
Page	5 of 9
Date of desc.	23 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	Dip	Strike
Date:	April 6, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-42	**44.15**	**45.67**			100	73	13			44.15 - 44.70	Jfol	C	R	Sm			45°	4 joints
										44.70 - 44.75	J	Op	R	Rug	Ca		45°	2 joints, Sli X
										44.91 - 45.01	Jfol	C	R	Sm			45°	2 joints
										45.15	J	Op	R	Rug	Ca		45°	1 joint, Sli X
										45.30 - 45.55	J	C	R	Sm			45°	4 joints
										45.55 - 45.67	Fractured and fissile rock							
DC-43	**45.67**	**47.19**			100	82	11			45.67 - 46.04	J	C	R	Sm			45°	3 joints
										46.13 - 46.18	J	Op	R	Sm			45°	2 joints, X
										46.30 - 47.19	J	C	R	Sm			45°	6 joints
DC-44	**47.19**	**48.71**			100	84	12			47.19 - 47.79	Jfol	C	R	Sm			45°	4 joints
										47.96	J	Op	R	Rug	Ca		45°	1 joint, Sli X
										48.13 - 48.61	Jfol	C	R	Sm			45°	6 joints
										48.66	J	Op	R	Sm	M		45°	1 joint
DC-45	**48.71**	**50.24**			100	26	19			48.89	J	Op	R	Rug	Ca		45°	Sli X
										48.94 - 49.83	Jfol	C	R	Sm			45°	9 joints
										49.94 - 50.24	J	C	R	Rug	Ca		45°	8 joints, Sli X
DC-46	**50.24**	**51.77**			100	7	37			50.24 - 50.48	J	Op	R	Sm	M, Gypse		45°	6 joints, Sli X
										50.53 - 51.03	Jfol	C	R	Sm	-		45°	16 joints
										51.04 - 51.77	J	Op	R	Sm	M, Gypse		45°	15 joints, Sli X

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	72.10
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-108-05
Page	6 of 9
Date of desc.	23 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	Dip	Strike
Date:	April 6, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-47	**51.77**	**52.60**			92	0	22			51.77 - 52.60	J	Op	R	Sm	M, Gypse		45°	Sli X
DC-48	**52.60**	**53.16**			100	0	12			52.60 - 52.86	Fractured and fissile rock							
										52.86 - 53.16	J	Op	R	Sm	M		15°-50°	Sli X
DC-49	**53.16**	**53.57**			100	0	10			53.16 - 53.57	Jfol	C	R	Sm			50°	
DC-50	**53.57**	**54.38**			53	0				53.57 - 54.38	Fractured and fissile rock							
DC-51	**54.38**	**54.81**			48	0					Rock was mechanically crushed							
DC-52	**54.81**	**55.50**			100	0					Fractured and fissile rock							
DC-53	**55.50**	**55.83**			84	0	4			55.50 - 55.83	J	Op	R	Rug	Ca		45°	Sli X
DC-54	**55.83**	**57.40**			100	18	28			55.83 - 56.52	Jfol	C	R	Sm			45°	14 joints
										56.61	J	Op	R	Sm	Ca, M		45°	
										56.66 - 56.86	Jfol	C	R	Sm			45°	4 joints
										56.86 - 57.06	Fractured and fissile rock							
										57.06 - 57.40	J	Op	R	Sm	M		45°	10 joints
DC-55	**57.40**	**57.86**			82	0	17			57.40 - 57.65	J	Op	R	Sm			45°	4 joints, Sli X
										57.66 - 57.86	Jfol	C	R	Sm			45°	6 joints
DC-56	**57.86**	**59.16**			100	36	20			57.86 - 59.16	J	C	R	Sm			45°	
DC-57	**59.16**	**59.84**			100	41	7			59.16 - 59.43	Fractured and fissile rock							
										59.51	J	Op	R	Rug	P		45°	
										59.66 - 59.84	Jfol	C	R	Sm			45°	6 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	72.10
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-108-05
Page	7 of 9
Date of desc.	23 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	**Dip**	**Strike**
Date: April 6, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-58	**59.84**	**60.91**			98	13	21			59.84 - 60.91	Jfol	C	R	Sm			45°	
DC-59	**60.91**	**62.43**			100	45	16			60.91 - 61.48	J	Op	R	Sm	M		45°	4 joints, Sli X
										61.48 - 62.43	Jfol	C	R	Sm			45°	12 joints
DC-60	**62.43**	**63.35**			100	52	12			62.43 - 62.98	Jfol	C	R	Sm			45°	7 joints
										62.98 - 63.09	J	Op	I	Rug	Ca	Wt	20°	2 joints, Sli X
										63.09 - 63.35	Jfol	C	R	Sm			45°	3 joints
DC-61	**63.35**	**64.49**			100	0	16			63.35 - 64.19	Jfol	C	R	Sm			45°	10 joints
										63.40	J	Op	R	Sm	Ca	Wt	25°	1 joint
										63.68	J	C	I	Rug			20°	1 joint
										64.11	J	C	R	Sm			65°	1 joint
										64.30	J	Op	R	Sm	Gypse (?)		45°	1 joint, X
										64.30 - 64.49	Jfol	C	R	Sm			45°	2 joints
DC-62	**64.49**	**65.48**			100	77	6			64.49 - 64.81	Jfol	C	R	Sm			45°	2 joints
										64.94	J	C	I	Rug			45°	1 joint
										65.11 - 65.48	Ji						90°	3 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	72.10
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-108-05
Page	8 of 9
Date of desc.	23 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	**Dip**	**Strike**
Date: April 6, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-63	**65.48**	**67.01**			97	100	8			65.64	J	C	R	Sm			45°	1 joint
										65.87	J	Op	R	Rug	Ca, Py		30°	1 joint
										65.98	Jfol	C	R	Sm			40°	1 joint
										66.14	Ji	C	I	Rug			80°	1 joint
										66.33	Jfol	C	R	Sm			45°	1 joint
										66.41	J	Op	I	Rug	Py, M	Bg	40°	1 joint
										66.71 - 67.01	J	C	R	Sm			45°	2 joints
DC-64	**67.01**	**68.53**			100	70	13			67.01 - 67.61	Jfol	C	R	Sm			45°	4 joints
										67.81	J	C	I	Rug			50°	1 joint
										67.97 - 68.25	Jfol	C	R	Sm			45°	4 joints
										68.29	Jfol	Op	R	Sm	Ca	Wt	35°	1 joint
										68.29 - 68.53	Jfol	C	R	Sm			45°	3 joint
DC-65	**68.53**	**70.06**			92	77	11			68.53 - 70.06	Jfol	C	R	Sm			45°	9 joints
										68.81 - 69.29	J	C	R	Sm			50°	2 joints
DC-66	**70.06**	**71.58**			100	75	14			70.16	J	Op	R	Sm	Gypse		35°	1 joint, X
										70.20 - 70.60	Jfol	C	R	Sm			50°	1 joint
										70.90 - 71.00	J	Op	R	Sm	M		65°	2 joints, X
										71.00 - 71.58	Jfol	C	R	Sm			50°	7 joints
										71.00 - 71.58	J	Op	I	Rug	Tr Ex		50°	3 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	72.10
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-108-05
Page	9 of 9
Date of desc.	23 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	**Dip**	**Strike**
Date: April 6, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-67	**71.58**	**73.10**			100	88	9			71.58 - 73.10	Jfol	C	R	Sm			40°	
DC-68	**73.10**	**74.63**			97	100	7			73.10 - 74.63	Jfol	C	R	Sm			40°	
DC-69	**74.63**	**75.82**			100	74	10			74.63 - 75.79	Jfol	C	R	Sm			40°	4 joints
										74.76	J	C	I	Rug			80°	2 joints
										74.94 - 75.07	J	C	I	Rug			20°	2 joints
DC-70	**75.82**	**77.34**			97	70	10			75.82 - 77.14	Jfol	C	R	Sm			45°	8 joints
										77.20 - 77.34	J	Op	I	Rug	Py		35°	2 joints
DC-71	**77.34**	**78.79**			100	94	9			77.34 - 78.79	Jfol	C	R	Sm			40°	8 joints
										78.24	J	C	I	Rug			50°	1 joint

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	18.04
Core barrel size	PQ
Dip	90°
Strike	N/A

Borehole No	BH-109-05
Page	1 of 1
Date of desc.	22 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	**Dip**	**Strike**
Date:	April 1st, 2005	

Run No.	Length (m)		*Length (ft-in)*		Recovery	RQD	Number	Return of water		DESCRIPTION								
	from	to	*From*	*to*	(%)	(%)	of joints	(%)	Color	Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-11	**7.26**	**7.92**			92	58	4			7.26 - 7.72	J	C	R	Sm			45°	
										7.72 - 7.92	Rock was mechanically crushed							
DC-12	**7.92**	**9.45**			97	62	12			7.92 - 9.45	J	Op	R	Sm	Tr Cl	Wt	45 °	
DC-13	**9.45**	**10.92**			89	79	7			9.45 - 10.92	J	C	R	Sm			50°	
DC-14	**10.92**	**12.49**			90	83	12			10.92 - 12.49	Jfol	C	I	Rug			35°-50°	
DC-15	**12.49**	**14.02**			87	69	8			12.49 - 14.02	J	C	I	Rug			30°-45°	
DC-16	**14.02**	**15.44**			100	86	13			14.02 - 15.44	J	C	R	Sm			45°	
DC-17	**15.44**	**15.54**			100	100	1			15.44 - 15.54	J	C	R	Sm			45°	
DC-18	**15.54**	**17.07**			97	70	8			15.54 - 16.38	J	Op	R	Sm	Ca		45°	1 joint
										16.38 - 17.07	Jfol	C	R	Sm			45 °	7 joints
DC-19	**17.07**	**18.59**			100	100	7			17.07 - 18.59	J	C	R	Sm			35°-45°	
DC-20	**18.59**	**20.11**			100	51	15			18.59 - 19.88	J	Op	R	Sm			45°	14 joints
										19.88 - 20.11	J	Op	R	Sm	Ca		45°	Sli X
DC-21	**20.11**	**21.64**			97	61	13			20.11 - 21.64	J	C	I	Rug			20°-45°	
DC-22	**21.64**	**23.16**					10			21.64 - 22.04	J	Op	I	Rug	Tr P		45°	2 joints
										22.04 - 23.16	J	C	R	Sm			45°	8 joints
DC-23	**23.16**	**24.68**			90	65	5			23.16 - 23.80	Fractured rock							
										23.80 - 24.28	J	C	R	Rug			45°	4 joints
										24.28 - 24.68	J	Op	I	Rug	Ex		20°-45°	1 joints
DC-24	**24.68**	**25.30**			100	87	3			24.68 - 25.30	J	Op	I	Rug	Ex		30°-45°	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	18.75
Core barrel size	HQ
Dip	90°
Strike	N/A

Borehole No	BH-110-05
Page	1of 2
Date of desc.	18 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	Dip	Strike
Date:	April 1st, 2005	

Run No.	Length (m)		*Length (ft-in)*		Recovery	RQD	Number	Return of water		DESCRIPTION								
	from	to	*From*	*to*	(%)	(%)	of joints	(%)	Color	Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-10	**6.93**	**7.75**	*22-9*	*25-5*	59	18	5			6.93 - 7.39	Jfol	0p	I	Rug	M	g	50°	5 joints
										7.39 - 7.75	Rock was mechanically crushed							
DC-11	**7.75**	**9.20**	*25-5*	*30-2*	32	0	10			7.75 - 8.05	J	C	R	Sm			50°	2 joints
										8.05 - 9.20	Severely fractured rock							
DC-12	**9.20**	**10.74**	*30-2*	*35-3*	100	79	12			9.20 - 9.87	Jfol	C	R	Sm			50°	7 joints
										9.87 - 10.05	J	C	I	Rug			40°	1 joint
										10.05 - 10.74	Jfol	C	R	Sm			50°	4 joints
DC-13	**10.74**	**12.26**			97	84	10			10.74 - 12.26	Jfol	Op	R	Rug	Tr M	g	50°	10 joints
DC-14	**12.26**	**13.79**			97	92	6			12.26 - 13.11	J	C	R	Sm			50°	1 joint
										13.11 - 13.67	J	C	I	Rug			50°	2 joints
										13.67 - 13.79	J	Op	R	Sm	Tr Cl	Wt	20°-50°	4 joints
DC-15	**13.79**	**14.80**			100	26	15			13.67 - 14.31	J	Op	R	Sm	Tr Cl	Wt	20°-50°	9 joints
										14.31 - 14.80	J	Op	R	Sm	Tr Cl	Wt	60°	6 joints
DC-16	**14.80**	**15.31**			100	55	3			14.80 - 15.31	J	C	R	Sm			50°	
DC-17	**15.31**	**16.35**			100	15	9			15.31 - 16.35	J	Op	R	Rug	Tr M		10°-45°	
DC-18	**16.35**	**16.84**			100	37	6			16.35-16.84	Jfol	Op	R	Sm	Tr Cl	Wt	45°	
DC-19	**16.84**	**18.05**			100	48	2			16.35 - 17.21	Severely fractured rock							
										17.21 - 17.75	J	Op	I	Rug	Tr M	g	20° - 45°	2 joints
										17.75 - 18.05	Severely fractured rock							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	18.75
Core barrel size	HQ
Dip	90°
Strike	N/A

Borehole No	BH-110-05
Page	2 of 2
Date of desc.	18 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	Dip	Strike
Date:	April 1st, 2005	

Run No.	Length (m)		*Length (ft-in)*		Recovery	RQD	Number	Return of water		DESCRIPTION								
	from	to	*From*	*to*	(%)	(%)	of joints	(%)	Color	Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-20	**18.05**	**18.36**			90	66	2			18.05 - 18.36	J	Op	I	Rug			45°	
DC-21	**18.36**	**19.38**			97	32	9			18.36 - 19.38	J	Op	I	Rug			45°	
DC-22	**19.38**	**19.88**			100	23	4			19.38 - 19.88	J	C	R	Sm			50 °	
DC-23	**19.88**	**21.01**			100	19				19.88 - 21.01	Severely fractured rock							
DC-24	**21.01**	**21.41**			100	75	3			21.01 - 21.41	J	Op	R	Rug	Ca	Wt	50°	1 joint
DC-25	**21.41**	**22.94**			95	70	9			21.41 - 22.94	J	C	R	Sm			50°	
DC-26	**22.94**	**24.46**			100	93	7			22.94 - 24.46	J	C	R	Rug			20°-50°	
DC-27	**24.46**	**25.67**			100	90	5			24.46 - 25.67	J	C	R	Sm	M	Bg	50°-80°	1 joint

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	4.36
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	BH-111A-05
Page	1 of 1
Date of desc.	15 mars 2005
Described by :	Isabelle Robillard, geol.
Approuved :	Alain Blanchette, geol.

Depth (m)	**Dip**	**Strike**
Date: April 7, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-19	**12.52**	**13.84**			67	0				12.52 - 12.75	Rock was mechanically crushed							
										12.75 - 13-15	J	Op		Rug		G	60°	7 joints
										13.15 - 13.84	Fractured and fissile rock							
DC-20	**13.84**	**15.29**			77	0	5			13.84 - 14.12	Rock was mechanically crushed							
										14.12 - 14.74	J	C	R	Sm		R	60°	5 joints
										14.74 - 15.29	Rock was mechanically crushed							
DC-21	**15.29**	**15.95**			100	48	8			15.29 - 15.95	Jfol	C	R	Sm		R	50°	
DC-22	**15.95**	**16.78**			100	24	15			15.95 - 16.39	Jfol	C	R	Sm		G	40°	12 joints
										16.39 - 16.68	J	C	R	Sm		R	45°	3 joints
										16.68 - 16.78	Fractured and fissile rock							
DC-23	**16.78**	**18.33**			97	22	19			16.78 - 18.33	J	C	R	Sm		G	50°	19 joints
DC-24	**18.33**	**19.86**			100	57	12			18.36 - 19.86	J	C	R	Sm		G	20°	12 joints

* angle from borehole axis (m)

lig. lightly **s.** some

prob. probably **tr.** traces of

X fault striation **Sli.** slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	37.59 m
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-116A-05
Page	1 of 6
Date of desc.	7 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date: April 14, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-1	**11.89**	**12.24**			57	0				11.89 - 12.24	Rock was mechanically crushed							
DC-2	**12.24**	**13.13**			75	28	8			12.24 - 12.34	Rock was mechanically crushed							
										12.34 - 13.13	Ji						25°	4 joints
										12.34 - 13.13	Jfol	C	R	Sm			85°	2 joints
										13.47	Jfol	Op	R	Sm	Tr Ca	Wt	71°	1 joint
										13.02	J	Op	I	Rug	Ca	Bg	15°	1 joint
DC-3	**13.13**	**14.71**			100	63	23			13.13 - 13.21	Ji							10 joints
										13.21 - 14.71	Jfol	C	R	Sm			85°	8 joints
										14.88	J	Op	R	Sm	Tr M	Bg	20°	3 joints
DC-4	**14.71**	**16.20**								14.71 - 16.20	Jfol	C	R	Sm			85°	5 joints
										14.71 - 16.20	Ji							10 joints
										14.71 - 15.04	J	C	I	Rug			20°	2 joints
										15.82	J	C	R	Sm			60°	1 joint
DC-5	**16.20**	**17.53**								16.20 - 17.53	Jfol	C	R	Sm			85°	11 joints
										16.35	J	C	I	Rug			40°	1 joint
										16.53 - 17.13	J	Op	R	Sm	Tr Ca	Bg	25°	2 joints
										17.29	J	C	R	Sm			45°	1 joint
DC-6	**17.53**	**19.05**								17.53 - 19.05	Ji						85°	17 joints
										17.53 - 19.05	Jfol	C	R	Sm			85°	5 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	37.59 m
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-116A-05
Page	2 of 6
Date of desc.	7 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 14, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										17.91	J	Op	I	Rug	M	Bg	15°	1 joint
										18.00	J	Op	R	Rug	Ca, P	Wt	65°	1 joint, X
DC-7	**19.05**	**20.57**			100	27	24			19.05 - 20.57	Ji						85°	16 joints
										19.05 - 20.57	Jfol	C	R	Sm			85°	8 joints
										19.97 - 20.09	J	C	I	Rug			60°	2 joints
DC-8	**20.57**	**21.24**			100	47	12			20.57 - 21.64	Ji						85°	6 joints
										20.57 - 21.64	Jfol	C	R	Sm			85°	5 joints
										21.26	J	C			Py, Cl		5°	1 joint
DC-9	**21.24**	**23.16**			100	63	16			21.24 - 23.16	Ji						85°	5 joints
										21.24 - 23.16	Jfol	C	R	Sm			85°	7 joints
										22.14	J	Op	R	Sm	Py, Ex	Wt	35°	1 joint
										22.20	J	C	R	Sm			20°	1 joint
										22.96	J	C	R	Sm			60°	1 joint
										23.07	J	Op	R	Rug	M	Bg	55°	1 joint
DC-10	**23.16**	**24.49**			98	38	16			23.16 - 24.49	i						85°	6 joints
										23.16 - 24.49	Jfol	C	R	Sm			85°	8 joints
										23.99	J	C	R	Sm			20°	1 joint
										24.28	J	C	I	Rug	Tr Ca	Wt	20°	1 joint
DC-11	**24.49**	**26.06**								24.49 - 26.06	Ji						85°	12 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	37.59 m
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-116A-05
Page	3 of 6
Date of desc.	7 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 14, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										24.49 - 26.06	Jfol	C	R	Sm			85°	8 joints
										24.87 - 24.93	Jfol	Op	R	Sm	Tr Ca		85°	2 joints
DC-12	**26.06**	**27.61**			100	85	15			26.06 - 27.61	Ji						85°	7 joints
										26.06 - 27.61	Jfol	C	R	Sm			85°	6 joints
										26.21	Jfol	Op	R	Sm	Tr Cl, Ca	Wt	80°	1 joint
										27.54	J	Op	I	Rug	Ex	Wt	30°	1 joint
DC-13	**27.61**	**29.16**			100	72	15			27.61 - 29.16	Ji						80°	10 joints
										27.61 - 29.16	Jfol	C	R	Sm			80°	5 joints
DC-14	**29.16**	**30.76**			100	57	22			29.16 - 30.76	Jfol	C	R	Sm			80°	8 joints
										29.16 - 30.76	Ji						80°	6 joints
										29.63 - 30.56	J	Op	I	Rug	Tr Cl	Wt	15°	4 joints
										29.16 - 30.76	Jfol	Op	R	Sm	Tr Ex	Wt	85°	4 joints
DC-15	**30.76**	**32.28**			100	41	14			30.76 - 32.28	Ji						80°	5 joints
										30.76 - 32.28	Jfol	C	R	Sm			80°	3 joints
										30.91	J	Op	R	Sm	Ex	Wt	40°	1 joint
										31.00	J	C	I	Rug			40°	1 joint
										31.28	J	Op	I	Rug	Ex	Wt	10°	4 joints
										31.50 - 32.28	J	Op	R	Sm	Ex, Cl	Wt	15°	3 joints
DC-16	**32.28**	**33.86**			100	73	17			32.28 - 33.86	Ji							5 joints

* angle from borehole axis (m)

lig. lightly

prob. probably

X fault striation

s. some

tr. traces of

Sli. slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	37.59 m
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-116A-05
Page	4 of 6
Date of desc.	7 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 14, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										32.28 - 33.86	Jfol	C	R	Sm			80°	10 joints
										33.56 - 33.86	J	C	R	Sm	Tr Ex	Wt	60°	2 joints
DC-17	**33.86**	**35.43**			100	27	20			33.86 - 35.43	Ji						85°	5 joints
										33.86 - 35.43	Jfol	C	R	Sm			85°	10 joints
										34.85 - 35.18	J	Op	R	Sm	Tr Ca	Wt	85°	3 joints
										34.41 - 35.07	J	Op	I	Rug	Tr Ex	Wt	15°	2 joints
DC-18	**35.43**	**36.98**			100	46	22			35.43 - 36.98	Jfol	C	R	Sm			85°	10 joints
										35.43 - 36.98	Ji						85°	6 joints
										35.73 - 36.45	Jfol	Op	R	Sm	P		85°	3 joints
										35.86 - 35.92	Jfol	Op	R	Sm	Ca	Wt	85°	2 joints, Tr X
										36.21	J	Op	R	Sm	Cl	Wt	15°	1 joint
DC-19	**36.98**	**38.53**			100	21	23			36.98 - 38.53	Jfol	C	R	Sm			85°	14 joints
										36.98 - 38.53	Ji						85°	8 joints
										37.51	J	Op	R	Sm	Cl	Wt	15°	1 joint
										38.53 - 40.13	Jfol	C	R	Sm			85°	10 joints
										38.53 - 40.13	Ji						85°	12 joints

* angle from borehole axis (m)

lig. lightly **s.** some

prob. probably **tr.** traces of

X fault striation **Sli.** slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	37.59 m
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-116A-05
Page	5 of 6
Date of desc.	7 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 14, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-21	**40.13**	**41.71**			100	38	19			40.13 - 41.71	Jfol	C	R	Sm			85°	8 joints
										40.13 - 41.71	Ji	Op	R	Sm			85°	8 joints
										40.53	Jfol	Op	R	Rug	Ca, P	Wt	85°	1 joint
										40.96	J	Op	R	Sm	P		5°	1 joint
										41.24 - 41.38	J	Op	R	Rug	Ex	Wt	15°	2 joints
										41.49	J	Op	R	Sm	Ex, P, Ca	Wt	15°	1 joint
DC-22	**41.71**	**43.25**			100	94	6			41.80	J	C	R	Sm	Gypsum	Wt	50°	
										42.12	J	Op	R	Sm			75°	
										42.61	J	C	I	Rug			0°-20°	
										42.68 - 42.71	J	C	R	Sm	Ca	Wt	90°	
										43.02	J	C	R	Rug			20°	
											Ji = 13 suivant le litage							
DC-23	**43.25**	**44.80**			100	70	15			43.47 - 43.58	Jfol	C	R	Sm			85°	
										43.75	J	Op	R	Sm	P, Ca	Bl	20°	
										43.77 - 43.82	J	C	R	Sm			85°	
										44.34	J	C	I	Rug	Gypsum	Bl	20°	
										44.41	J	C	I	Rug	Ca	Bl	80°	
										44.48 - 44.55	J	C	I	Rug	Ca	Bl	80°	
										44.64	J	C	I	Rug	Ca, Gyp	Bl	0°-30°	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	37.59 m
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-116A-05
Page	6 of 6
Date of desc.	7 avril 2005
Described by :	Isabelle Robillard, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 14, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										44.66	J	Op	R	Sm	Tr M	G	90°	
											Ji = 18 suivant le litage							
DC-24	**44.80**	**46.38**			100	96	4			44.98	J	C	R	Sm	Tr Ca	Bl	85°	
										45.09	J	C	R	Sm	Tr Ca	Bl	85°	
										45.18	J	C	R	Sm			80°	
										46.29	J	C	R	Sm	Ca	Bl	10°	
											Ji = 14 suivant le litage							
DC-25	**46.38**	**47.93**			100	95	4			46.55	J	C	R	Sm	Ca	Bl	20°	
										46.63	J	C	R	Sm	P	Y	90°	
										47.17	J	Op	R	Sm			85°	
										47.30	J	C	I	Rug			90°	
											Ji = 12 suivant le litage							
DC-26	**47.93**	**49.48**			100	95	5			47.97	J	Op	R	Sm	P	Y	90°	
										48.12 - 48.22	J	C	R	Sm			90°	
										48.34	J	C	R	Sm	Tr C	Bl	25°	
										49.05	J	Op	R	Sm	Tr C	Bl	25°	
											Ji = 14 suivant le litage							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T1050-B
Contrat	603333-KELL

Length in bedrock (m)	
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-116B-05
Page	1 of 6
Date of desc.	4 avril 2005
Described by :	Isabelle Robillard, geol
Approuved :	A. Blanchette, geol.,M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date: April 14, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-12	**8.84**	**9.45**			74	26	6			8.84 - 9.45	Jfol	C	R	Sm			40°	5 joints
										9.16	J	Op	R	Sm	Ca	Wt	55°	1 joint
DC-13	**9.45**	**9.83**			100	0				8.84 - 9.45	Jfol	C	R	Sm				4 joints
										9.55 - 9.60	J	Op	R	Sm	Ca	Wt	30°	3 joints
										9.66	J	Op	R	Sm	M	G	45°	1 joint
DC-14	**9.83**	**10.26**			100	0					Very fractured and fissile rock							
DC-15	**10.26**	**10.59**			100	46	3			10.35	J	C	R	Sm			45°	3 joints
DC-16	**10.59**	**11.18**			100	0	5			10.59 - 10.98	Jfol	C	R	Sm			45°	5 joints
										10.98 - 11.18	Very fractured rock							
DC-17	**11.18**	**11.99**			100	15	6			11.28	J	Op	R	Sm	Tr Ex	Wt	35°	1 joint
										11.35 - 11.99	Jfol	C	R	Sm			45°	4 joints
										11.89	J				Ca	Wt	40°	1 joint
DC-18	**11.99**	**12.50**			100	0				12.25	J	Op	R	Sm	Tr C	G	40°	1 joint
										12.30	J	Op	I	Rug	M	Bg	40°	1 joint
										11.99 - 12.50	J	C	R	Sm			45°	4 joints
DC-19	**12.50**	**13.05**			100	18				12.57	J	Op	R	Sm	Tr Ca, K		40°	1 joint
										12.60 - 13.05	Very fractured rock							
DC-20	**13.05**	**13.61**			100	0	8			13.05 - 13.61	Jfol	C	R	Sm			45°	6 joints
										13.15 - 13.30	J	Op	I	Rug	Tr M	Bg	35°	2 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T1050-B
Contrat	603333-KELL

Length in bedrock (m)	
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-116B-05
Page	2 of 6
Date of desc.	4 avril 2005
Described by :	Isabelle Robillard, geol
Approuved :	A. Blanchette, geol.,M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 14, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-21	**13.61**	**13.74**			100	0					Fractured and fissile rock							
DC-22	**13.74**	**14.50**			91	14					Fractured and fissile rock							
DC-23	**14.50**	**15.09**			100	43	6			14.55	J	Op	R	Sm	Ca	Bg	50°	1 joint
										14.80 - 15.09	Jfol	C	R	Sm			50°	5 joints
DC-24	**15.09**	**15.39**			100	0				15.09 - 15.19	Jfol	C	R	Sm				2 joints
										15.19 - 15.39	Fractured and fissile rock							
DC-25	**15.39**	**16.20**			100	0	16			15.39 - 16.20	Jfol	C	R	Sm			50°	13 joints
										15.59	J	Op	R	Sm	Ca, Py	Wt	65°	1 joint
										15.73	J	C	R	Sm	Gy	Bg	30°	1 joint
										15.97	J	C	I	Rug			50°	1 joint
DC-26	**16.20**	**16.69**			100	20	9			16.20 - 11.69	Jfol	C	R	Sm			50°	8 joints
										16.32 - 16.62	J	C	R	Sm			35°	2 joints
DC-27	**16.69**	**17.30**			100	45	9			16.75	Jfol	C	R	Sm			50°	1 joint
										16.77	J	Op	I	Rug	Ca, Py	Wt	50°	1 joint
										16.77 - 17.04	Jfol	C	R	Sm			50°	4 joints
											J	Op	R	Sm	M, Py	Br	50°	3 joints
DC-28	**17.30**	**18.34**			100	57	11			17.30 - 18.34	Jfol	C	R	Sm			50°	10 joints
											J	Op	I	Rug	Tr Ca, Ex	Bg	5°	1 joint
DC-29	**18.34**	**19.78**			78	53	12			18.34 - 18.67	Ji							

* angle from borehole axis (m)

lig. lightly

prob. probably

X fault striation

s. some

tr. traces of

Sli. slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T1050-B
Contrat	603333-KELL

Length in bedrock (m)	
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-116B-05
Page	3 of 6
Date of desc.	4 avril 2005
Described by :	Isabelle Robillard, geol
Approuved :	A. Blanchette, geol.,M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 14, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										18.77	J	Op	I	Rug	Tr Py		40°	
										18.92 - 19.78	Jfol	C	R	Sm			40°	
										19.58	J	Op	I	Rug	M	Bg	25°	
DC-30	**19.78**	**21.28**			100	38	16			19.78 - 21.29	Jfol	C	R	Sm			45°	
DC-31	**21.28**	**22.43**			100	26	8			21.28 - 21.48	J	Op	R	Sm	Tr M	Bg	50°	1 joint
										21.48 - 21.91	J	Op	R	Sm	Tr Ca	Wt	35°-50°	7 joints
										21.91 - 22.43	Fractured and fissile rock							
DC-32	**22.43**	**22.99**			96	39	5			22.50 - 22.65	J	Op	R	Sm	Ca, Py	Bg	30°-40°	3 joints
										22.80 - 22.99	Ji							
											J	Op	R	Rug	Tr Ca	Bg	30°	2 joints
DC-33	**22.99**	**23.67**			100	67	4			22.99 - 23.45	J	C	R	Sm			40°	
										23.45 - 23.67	Fractured and fissile rock							
DC-34	**23.67**	**25.19**			100	93	7			23.67 - 25.19	Jfol	C	R	Sm			40°	
DC-35	**25.19**	**25.96**			84	78	6			25.24	Jfol	C	R	Sm			40°	1 joint
										25.38	J	Op	I	Rug	Ca	Bg	30°	1 joint
										25.43	J	Op	R	Sm	Tr M	Bg	15°-40°	2 joints
										25.81 - 25.96	Jfol	C	R	Sm			40°	2 joints
DC-36	**25.96**	**27.48**			97	80	8			25.96 - 27.48	Jfol	C	R	Sm			40°	
DC-37	**27.48**	**29.00**			100	86	10			27.48 - 27.87	J	Op	R	Sm	Tr H, Gy		40°	2 joints, X

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T1050-B
Contrat	603333-KELL

Length in bedrock (m)	
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-116B-05
Page	4 of 6
Date of desc.	4 avril 2005
Described by :	Isabelle Robillard, geol
Approuved :	A. Blanchette, geol.,M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 14, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										27.95 - 29.00	Jfol	C	R	Sm			40°	8 joints
DC-38	**29.00**	**30.53**			94	69	11			29.17	J	Op	I	Rug	M, Tr Py	Br	40°	1 joint
										29.22 - 29.42	Jfol	Op	R	Sm	Ca	Wt	40°	3 joints
										29.61 - 30.53	Jfol	C	R	Sm			40°	7 joints
DC-39	**30.53**	**32.03**			100	66	8			30.53 - 31.78	Jfol	C	R	Sm			40°	5 joints
										30.73 - 30.95	J	C		Rug	M	Br	40°	2 joints
										31.75	J	Op	R	Sm	Gy	Gr	50°	X
										31.75 - 32.03	Fractured and fissile rock							
DC-40	**32.03**	**33.55**			100	78	11			32.25	J	Op	R	Sm	M	Bg	30°	1 joint
										32.51 - 33.55	Jfol	C	R	Sm			30°-50°	10 joints
DC-41	**33.55**	**35.08**			100	64	15			33.55 - 33.90	Jfol	C	R	Sm			50°	2 joints
										33.55 - 33.90	J	Op	R	Sm	Tr M	Bg	35°	4 joints
										34.01	J	Op	R	Sm	M, Tr Ca, Py	Br	30°	1 joint
										34.21	Jfol	C	R	Sm			50°	1 joint
										34.38	J	Op	R	Sm	Ca, Py		30°	1 joint
										34.52	J	Op	R	Sm	Ca, Gy		50°	1 joint, Sli X
										34.65 - 34.75	J	Op	R	Sm	Ca, M, Py		20°-45°	2 joints
										34.88	Jfol	C	I	Rug			45°	1 joint
										35.00 - 35.08	Ji	C	I	Rug			90°	2 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T1050-B
Contrat	603333-KELL

Length in bedrock (m)	
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-116B-05
Page	5 of 6
Date of desc.	4 avril 2005
Described by :	Isabelle Robillard, geol
Approuved :	A. Blanchette, geol.,M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date: April 14, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-42	**35.08**	**36.60**			93	65	7			35.37	J	Op	R	Sm	Ca, Py, Gy	Wt	40°	1 joint, Sli, X
										35.50 - 35.85	J	Op	I	Rug	Ca	Bg	30°	2 joints
										35.44 - 36.15	Jfol	C	R	Sm			45°	4 joints
DC-43	**36.60**	**38.12**			100	78	9			36.60 - 37.48	Jfol	C	R	Sm			50°	6 joints
										36.60 - 37.48	J	Op	R	Rug	Ca, M	Wt	35°	2 joints
										38.12	J	Op	I	Rug	Ca, Py		35°	1 joint
DC-44	**38.12**	**39.67**			100	100	9			39.26 - 39.67	Jfol	C	R	Sm			50°	6 joints
										38.80	J	C	R	Sm			25°	1 joint
										39.08	J	Op	R	Rug	Ca, Gy			Sli
										39.38	Ji	C	I	Rug			85°	
DC-45	**39.67**	**41.22**			100	90	8			39.78 - 39.80	Ji	C	I	Rug			85°	2 joints
										39.67 - 41.22	Jfol	C	R	Sm			50°	7 joints
DC-46	**41.22**	**42.75**					8			41.22	J	C	I	Rug			25°-50°	
DC-47	**42.75**	**44.77**			100	66	15			42.75 - 44.77	Jfol	C	R	Sm			40°	11 joints
										43.17 - 43.41	J	Op	I	Rug	Tr Cl	Bg	30°	4 joints
										44.20	Ji	C	I	Rug			80°	11 joints
DC-48	**44.77**	**45.79**			100	80	12			44.77 - 45.69	J	C	I	Rug			30°-70°	7 joints
										45.00 - 45.55	Jfol	C	R	Sm			50°	2 joints
										45.70 - 45.79	J	Op	I	Rug	Py, M		20°-60°	3 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T1050-B
Contrat	603333-KELL

Length in bedrock (m)	
Core barrel size	
Dip	90°
Strike	N/A

Borehole No	BH-116B-05
Page	6 of 6
Date of desc.	4 avril 2005
Described by :	Isabelle Robillard, geol
Approuved :	A. Blanchette, geol.,M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 14, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-49	**45.79**	**47.32**			100	82	9			45.79 - 47.32	Jfol	C	R	Sm			45°	6 joints
										46.71	J	Op	R	Sm	M	Gr	50°	1 joint
										46.81 - 46.97	J	Op	R	Sm	Ex		15°	2 joints
DC-50	**47.32**	**48.54**			100	48	13			47.32 - 48.44	Jfol	C	R	Sm			50°	10 joints
										47.68	J	Op	R	Sm	Py, M		50°	1 joint
											J	C	I	Rug			30°	2 joints
										48.44 - 48.54	Rock was mechanically crushed							
DC-51	**48.54**	**50.11**			100	39	13			48.54 - 50.11	J	Op	I	Rug	Tr Cl	Wt	30°	5 joints
										48.54	J	C	R	Sm			50°	8 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.24
Core barrel size	Nq-3
Dip	50°
Strike	315°

Borehole No	BH-117A-05
Page	1 of 11
Date of desc.	April 11th, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 19, 2005	

Run No.	Length (m) from	Length (m) to	Length (ft-in) From	Length (ft-in) to	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-1	**8.03**	**8.31**			61	0	1			8.24	J	Op	R	Sm	Tr M	Br	30°	
											Ji = 2							
DC-2	**8.31**	**8.97**			83	0	11			8.31	J	C	R	Rug	Ca	Wt	80°	
										8.40	J	Op	I	Sm	Ca	Wt	30°	
										8.47 and 8.50	2 Jfol	C	R	Sm			55°	
										8.56	J	C	R	Sm	Ca	Wt	20°	
										8.61	J	Op	R	Sm	M + Sand	G	55°	Filling 1 mm thick
										8.65	J	Op	R	Sm	M + Sand	G	55°	Filling 3 mm thick
										8.70	J	Op	R	Sm	M + Gravier	G	55°	Filling 10 mm thick
										8.75	Jfol	Op	R	Sm	M + Sand	G	55°	Filling 1 mm thick
										8.83 - 8.97	J	Op	R	Sm	M + Sand	G	70° (?)	Filling may be
																		140 mm thick, only 60 mm recovered
											Ji = Many, difficult to count							
DC-3	**8.97**	**9.32**			38	0	1				The entire run is broken mechanically by the drill							
											Presence of silt, suggesting a joint somewhere							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.24
Core barrel size	Nq-3
Dip	50°
Strike	315°

Borehole No	BH-117A-05
Page	2 of 11
Date of desc.	April 11th, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date: April 19, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-4	**9.32**	**9.97**			77	29	3 +			9.38	J	Op (?)	R	Sm			55°	
										9.55 and 9.59	2 Jfol	C	R	Sm			55°	
										9.59 - 9.97	The rock is broken mechanically, probably							
											Following little veins and/or the beding of the rock							
DC-5	**9.97**	**10.49**			38	0	++			9.97 - 10.49	The entire run is broken mechanically							
											Presence of silt, suggesting many joint							
DC-6	**10.49**	**10.77**			79	57	2			10.49	J	Op	R	Rug	Tr M	G	60°	
										10.64	J	Op	R	Sm			60°	
										10.69 - 10.77	No recovery							
DC-7	**10.77**	**11.23**			89	39	5			10.73 and 10.80	2 J	Op	R	Rug			80°	
										10.85 - 10.89	Fragments of roc							
										10.93	J	Op	R	Rug			80°	
										11.11	J	Op	I	Rug			60°-90°	
										11.11 - 11.23	Partiel recovery, fragments of roc plus silt							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.24
Core barrel size	Nq-3
Dip	50°
Strike	315°

Borehole No	BH-117A-05
Page	3 of 11
Date of desc.	April 11th, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date: April 19, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-8	**11.23**	**11.68**			86	0	6 +				The entire run is broken mechanically but some of							
											the fragments seem to result from natural fractures							
DC-9	**11.68**	**12.52**			42	0	++				Partial recovery, the roc is fractured naturally							
											or mechanically							
DC-10	**12.52**	**13.94**			100	75	10			12.59	J	Op	R	Sm			80°	
										12.65 and 12.70	2 Jfol	C	R	Sm			80°	
										12.76	Jfol	C	R	Sm			70°	
										12.83	Jfol	Op	R	Sm	M	G	80°-90°	
										12.87	J	Op	R	Sm	M	G	80°	
										13.07	J	Op	R	Sm	Gypsum	Wt	10°	
										13.38	J	Op	R	Sm	Tr M	G	80°	
										13.70	J	Op (?)	R	Sm			70°	
										13.80	J	Op (?)	R	Sm			70°	
											Ji = 21 Following the bedding							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.24
Core barrel size	Nq-3
Dip	50°
Strike	315°

Borehole No	BH-117A-05
Page	4 of 11
Date of desc.	April 11th, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date: April 19, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-11	**13.94**	**15.19**			99	15	14 +			13.99	J	C	R	Sm			40°	
										14.04	Jfol	C	R	Sm			35°	
										14.10	J	C	R	Sm			40°	
										14.14	J	Op	R	Sm	Tr M	G	40°	
										14.23 - 14.52	Jfol	C	R	Sm			60°-70°	Many
										14.56	Jfol	C	R	Sm			60°	
										14.63	Jfol	Op	R	Sm	Tr M	G	60°	
										14.66	J	C	R	Rug			80°	
										14.84	J	C	R	Rug			90°	
										14.89 - 14.99	6 Jfol	C	R	Sm			70°	
										14.99 - 15.19	J	Op	R	Sm	M + Gravier	G	60°	Filled with
																		rock fragments
DC-12	**15.19**	**16.36**			100	27	6 +			15.24	Jfol	C	R	Sm			30°	
										15.33	Sli	C	R	Sm			40°	
										15.47	J	Op (?)	R	Rug			90°	
										15.64 and 15.69	Many Jfol in gray shale							
										15.72	J	C	R	Sm			70°	
										15.94	J	Op	R	Rug			60°	
										15.99 - 16.36	Many rock fragments plus silt							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.24
Core barrel size	Nq-3
Dip	50°
Strike	315°

Borehole No	BH-117A-05
Page	5 of 11
Date of desc.	April 11th, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date: April 19, 2005		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
											Ji = 4 Following the bedding							
DC-13	**16.36**	**17.02**			70	15	9			16.36 - 16.86	8 Jfol	C	R	Sm			60°-70°	Partial recovery
										16.90	J	Op	R	Sm	M	G	60°	
										16.90 - 17.02	Fragments of rock							
DC-14	**17.02**	**17.75**			100	36	2			17.11	Jfol	C	R	Sm			40°	
										17.17	Jfol	C	R	Sm			45°	
										17.45 - 17.75	Many Jfol, 30° to 40°							
DC-15	**17.75**	**18.14**			87	0					The entire run is broken mechanically by the drill							
											Presence of silt, suggesting a joint somewhere							
DC-16	**18.14**	**18.42**			85	0					Fragments of rock							
DC-17	**18.42**	**18.69**			91	0					Fragments of rock							
DC-18	**18.69**	**19.02**			100	0	8			18.69 - 19.02	8 Jfol	C	R	Sm			70°	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.24
Core barrel size	Nq-3
Dip	50°
Strike	315°

Borehole No	BH-117A-05
Page	6 of 11
Date of desc.	April 11th, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 19, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-19	**19.02**	**19.38**			100	0	8			19.11	J	Op (?)	R	Sm			65°	
										19.20 - 19.38	7 Jfol	C	R	Sm			65°-70°	
DC-20	**19.38**	**19.69**			100	0	9			19.38 - 19.62	8 Jfol	C	R	Sm			70°	
										19.62	J	Op	R	Sm	M	G	70°	
DC-21	**19.69**	**20.60**			90	11	21			19.69 - 20.55	20 Jfol	C	R	Sm			70°	
										20.55	J	Op	R	Sm	M	G	70°	
										20.55 - 20.60	No recovery							
DC-22	**20.60**	**21.41**			97	40	8			20.60 - 20.97	6 Jfol	C	R	Sm			70°	
										21.29	J	Op	R	Sm	Ca	Wt	30°	
										21.34	J	Op	R	Sm	Ca	Wt	30°	
DC-23	**21.41**	**22.05**			100	84	1			21.50	J	Op	R	Sm	Ca	Wt	30°	
											Ji = 14 Following the bedding at 70°							
DC-24	**22.05**	**22.58**			100	0	10			22.05 - 22.58	10 Jfol	Op	R	Sm	Tr M	G	75°	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.24
Core barrel size	Nq-3
Dip	50°
Strike	315°

Borehole No	BH-117A-05
Page	7 of 11
Date of desc.	April 11th, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 19, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-25	**22.58**	**23.80**			100	45	18			22.58 - 23.34	10 Jfol	Op	R	Sm	Tr M	G	80°	
										23.34 - 23.50	Fragments of rock							
										23.50 - 23.80	8 Jfol	Op	R	Sm	Tr M	G	85°	
DC-26	**23.80**	**24.38**			91	0	6			23.80 - 24.00	5 Jfol	C	R	Sm			80°	
										24.00 - 24.38	1 small shear zone at 25° from borehole axis, filled with silt crushed rock							
DC-27	**24.38**	**25.96**			100	57	6			24.38 - 24.63	Contincity of the shear zone, filled with calcite							
										24.82	Jfol	Op (?)	R	Sm			85°	
										25.04 - 25.29	4 Jfol	C	R	Sm			85°	
											Ji = 19 Following the bedding							
DC-28	**25.96**	**27.53**			97	40	21			25.96 - 27.53	21 Jfol	Op/C	R	Sm			90°	
DC-29	**27.53**	**27.61**			100	0				27.53 - 27.61	Fragments of rock							
DC-30	**27.61**	**29.18**			89	38	19			27.61 - 28.05	10 Jfol	C	R	Sm			80°-90°	
										28.68	J	Op	R	Sm	Tr C	Wt	20°	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.24
Core barrel size	Nq-3
Dip	50°
Strike	315°

Borehole No	BH-117A-05
Page	8 of 11
Date of desc.	April 11th, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 19, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										28.71 - 29.18	8 Jfol	C	R	Sm			80°-90°	
DC-31	**29.18**	**30.61**			100	96	2			29.91	J	Op	R	Sm	Ca	Wt	30°	
										30.54	J	Op	R	Sm	Ca	Wt	30°	
											Ji = 15 Following the bedding							
DC-32	**30.61**	**32.16**			100	100	1			30.62	J	Op	R	Sm	Ca	Wt	10°	
											Ji = 13 Following the bedding							
DC-33	**32.16**	**33.70**			100	68	10			32.24	J	Op	R	Sm	P + Ca	Y +Wt	20°	
										32.28	J	Op	R	Sm			55°	
										32.86 and 32.96	2 J	C	R	Sm			60°	
										33.18 and 33.24	2 J	C	R	Sm			70°	
										33.34	J	C	R	Sm			70°	
										33.42	J	C	R	Rug			75°	
										33.43	J	Op	R	Sm	Tr Ca	Wt	15°	
										33.62	J	Op	R	Sm	Tr M	G	70°	
											Ji = 15 Following the bedding							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.24
Core barrel size	Nq-3
Dip	50°
Strike	315°

Borehole No	BH-117A-05
Page	9 of 11
Date of desc.	April 11th, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 19, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-34	**33.70**	**35.25**			100	99	2			33.80 and 33.82	2 J	Op (?)	R	Sm			85°	
											Ji = 14 (various angle)							
DC-35	**35.25**	**36.80**			100	84	9			35.28 and 35.34	2 J	C	R	Sm			80°	
										35.58	J	C	R	Sm			80°	
										35.64	J	C	R	Sm			80°	
										35.86 and 35.98	2 Sli (?)	C	R	Sm			80°	
										36.08	J	Op (?)	R	Rug	Tr Ca	Wt	85°	
										36.42 and 36.59	2 J	C	R	Sm			80°	
											Ji = 6 (various angle)							
DC-36	**36.80**	**38.38**			100	89	9			37.23	J	Op	R	Sm			30°	
										37.32	J	C	R	Sm			75°	
										37.59	J	Op	I	Rug			85°	
										37.62 and 37.64	2 J	Op	R	Rug	Ca	Wt	60°	
										37.66	J	Op	R	Sm	S, M	G	90°	
										37.80	Sli (?)	Op	R	Sm			80°	
										38.02	J	C	R	Sm			85°	
										38.20	J	C	R	Sm			80°	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.24
Core barrel size	Nq-3
Dip	50°
Strike	315°

Borehole No	BH-117A-05
Page	10 of 11
Date of desc.	April 11th, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 19, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-37	**38.38**	**39.88**			100	65	13			38.48 - 38.96	7 Jfol	C	R	Sm			80°	
										39.04 and 39.10	2 J	Op	R	Sm	Tr M	G	50°	
										39.48	J	Op	R	Sm	Tr P	Y	80°	
										39.64	J	Op	R	Sm			60°	
										39.75	J	Op	R	Sm	Tr M	G	60°	
										39.88	J	Op	I	Rug	Tr M	G	80°-90°	
											Ji = 6 Following the bedding							
DC-38	**39.88**	**41.00**			100	78	7			39.95	J	C	R	Sm			40°	
										40.39 - 40.62	5 Jfol	C	R	Sm			80°	
										40.93	J	C	I	Rug			10°-20°	
											Ji = 3 various							
DC-39	**41.00**	**42.52**			100	85	10			41.06 and 41.10	2 J	Op (?)	R	Sm			75°	
										41.42	J	Op	R	Rug	P + Ca	Y + Wt	20°	
										41.67	J	Op	R	Sm	P	Y	20°	
										41.76 - 42.52	6 Jfol	C	R	Sm			80°	
											Ji = 6 Following the bedding							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.24
Core barrel size	Nq-3
Dip	50°
Strike	315°

Borehole No	BH-117A-05
Page	11 of 11
Date of desc.	April 11th, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 19, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-40	**42.52**	**44.04**			100	78	15			42.52 - 44.04	15 Jfol	C	R	Sm	Tr P	Y	30°-80°	
											Ji = 4 Following the bedding							
DC-41	**44.04**	**45.56**			100	100	3			44.69 - 45.13	3 Jfol	C	R	Sm			85°	
											Ji = 9 Following the bedding							
DC-42	**45.56**	**47.12**			100	93	6			45.66 and 45.70	2 Jfol	C	R	Sm			90°	
										46.26	J	Op	R	Sm	Ca	Wt	20°	
										46.42 - 47.00	3 Jfol	C	R	Sm			90°	
											Ji = 4 Following the bedding							
DC-43	**47.12**	**48.67**			100	100	1			47.84	J	C	R	Sm			90°	
											Ji = 5 Following the bedding							
DC-44	**48.67**	**50.24**			100	78	12			48.98 - 50.24	12 Jfol	C	R	Sm			90°	
											Ji = 4 Following the bedding							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.11
Core barrel size	NQ-3
Dip	
Strike	

Borehole No	BH-117B-05
Page	1 of 7
Date of desc.	April 6, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 20, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details				Covered with :	Color	Angle*	Remarks
DC-10	**6.17**	**6.71**			83	0				6.17 - 6.71	Fragments of rock with silt suggesting								
											presence of open joints								
DC-11	**6.71**	**7.04**			92	0				6.71 - 7.04	Fragments of rock with silt suggesting								
											presence of open joints								
DC-12	**7.04**	**7.77**			92	41	6			7.04 - 7.19	Fragments of rock								
										7.35	J	C	R	Sm		Ca	Wt	40°	
										7.35 - 7.70	5 Jfol	C	R	Sm				80°	
											Ji = 4 Following the bedding								
DC-13	**7.77**	**9.29**			100	41	21			7.77 - 9.29	21 Jfol	C	R	Sm				80°	
DC-14	**9.29**	**10.13**			95	15	20			9.29 - 9.68	9 Jfol	C	R	Sm				80°	
										9.72	J	C	R	Sm		Ca	Wt	50°	
										9.77 - 10.13	10 Jfol	C	R	Sm				80°	
DC-15	**10.13**	**10.92**			100	51	5			10.13 - 10.39	4 Jfol	C	R	Sm				40°	
										10.66 - 10.79	Zone with high schistosity								

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.11
Core barrel size	NQ-3
Dip	
Strike	

Borehole No	BH-117B-05
Page	2 of 7
Date of desc.	April 6, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 20, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-16	**10.92**	**11.38**			100	72	2			11.07 and 11.12	2 J	Op	R	Sm	M	Bg	60°	
										11.30 - 11.38	Fragments of rock							
DC-17	**11.38**	**12.22**			98	0				11.38 - 12.22	Fragments of rock							
DC-18	**12.22**	**13.31**			100	34				12.27 - 13.00	Fragments of rock							
										13.00 - 13.31	Open rock (?) Presence of silt, sand and fragments of rock							
DC-19	**13.31**	**14.88**			95	39	20			13.61 - 14.72	20 Jfol	C	R	Sm			70°-90°	
DC-20	**14.88**	**16.46**			100	61	13			14.72 - 15.11	3 Jfol	C	R	Sm			70°	
										15.33	J	C	R	Sm	Ca	Wt	30°	
										15.41 and 15.78	2 Jfol	C	R	Sm			70°	
										15.87	J	Op	R	Sm	M	G	40°	Filling 5 mm thick
										16.03 - 16.26	Jfol	C	R	Sm			70°	
										16.26	J	Op	I	Rug	M	G	20°	
										16.30 - 16.46	3 Jfol	C	R	Sm			70°	
											Ji = 6 Following the bedding							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.11
Core barrel size	NQ-3
Dip	
Strike	

Borehole No	BH-117B-05
Page	3 of 7
Date of desc.	April 6, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 20, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-21	**16.46**	**18.01**			100	50	17			16.50	J	C	R	Sm	Ca	Wt	30°	
										16.74	J	C	R	Sm	Ca	Wt	40°	
										16.79 - 17.89	14 Jfol	C	R	Sm			70°	
										17.89	J	C	R	Sm	Ca	Wt	40°	
											JI = 6 Following the bedding							
DC-22	**18.01**	**19.56**			100	54	12			18.01 - 18.90	8 Jfol	C	R	Sm			70°	
										18.96	J	Op	R	Sm	M	Bg	40°	
										19.01 - 19.47	2 Jfol	C	R	Sm			70°	
										19.47	J	C	R	Sm	Ca	Wt	40°	
											Ji = 8 Following the bedding							
DC-23	**19.56**	**21.13**			100	69	12			19.59 - 21.07	12 Jfol	C	R	Sm			70°	
											Ji = 4 Following the bedding							
DC-24	**21.13**	**22.66**			100	73	14			21.19 - 22.59	14 Jfol	C	R	Sm			70°	
											Ji = 5 Following the bedding							

* angle from borehole axis (m)

lig. lightly

prob. probably

X fault striation

s. some

tr. traces of

Sli. slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.11
Core barrel size	NQ-3
Dip	
Strike	

Borehole No	BH-117B-05
Page	4 of 7
Date of desc.	April 6, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 20, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-25	**22.60**	**23.70**			69	17	6 +			22.66 - 23.12	6 Jfol	C	R	Sm			70°	
										23.12 - 23.70	Fragments of rock, partial recovery							
DC-26	**23.70**	**25.25**			100	93	5			23.70 - 25.20	5 Jfol	C	R	Sm			70°	
											Ji = 4 Following the bedding							
DC-27	**25.25**	**26.80**			100	94	9			25.40 - 25.97	3 Jfol	C	R	Sm			70°	
										26.03	J	C	I	Rug	Tr Ca	Wt	70°	
										26.09	J	C	R	Sm			40°	
										26.28 - 26.70	4 Jfol	C	R	Sm			70°	
DC-26	**26.80**	**28.37**			100	90	9			27.02	J	C	R	Sm	Tr Ca	Wt	50°	
										27.13 - 28.14	8 Jfol	C	R	Sm			60°-70°	
DC-29	**28.37**	**29.95**			100	95	5			28.47 - 28.96	3 Jfol	C	R	Sm			60°	
										28.99	Sli (?)	C	R	Sm			55°	
										29.91	Jfol	C	R	Sm			60°	
DC-30	**29.95**	**31.52**			100	100	0											

* angle from borehole axis (m)

lig. lightly

prob. probably

X fault striation

s. some

tr. traces of

Sli. slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.11
Core barrel size	NQ-3
Dip	
Strike	

Borehole No	BH-117B-05
Page	5 of 7
Date of desc.	April 6, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 20, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-31	**31.52**	**33.05**			100	89	7			31.92 - 32.02	3 J	C	R	Sm	Tr Ca	Wt	80°	
										32.09 - 32.72	4 Jfol	C	R	Sm			60°	
DC-32	**33.05**	**34.65**			100	91	6			33.17	Jfol	C	R	Sm			60°	
										33.44	Jfol	C	R	Sm	S, Ca	Wt	50°	
										33.49	Jfol	C	R	Sm	Tr Ca	Wt	40°	
										33.53 - 34.95	3 Jfol	C	R	Sm			60°	
DC-33	**34.65**	**36.25**			100	100	6			35.08 - 36.11	6 Jfol	C	R	Sm			60°	
DC-34	**36.25**	**37.82**			100	86	4			37.02	J	Op	R	Sm	Tr M	Br	50°	
										37.20	J	Op	I	Rug	Tr M	G	60°	
										37.28	J	Op	I	Rug	Tr M	G	70°	
										37.74	J	Op	I	Rug	S, M	G	30°	
											Ji = 4 at various angle							
DC-35	**37.82**	**39.22**			100	89	2			39.06	J	C	R	Sm	Tr K	Gr	30°	
										39.16	J	C	R	Sm	Tr K	Gr	20°	
											Ji = 9 at various angle							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.11
Core barrel size	NQ-3
Dip	
Strike	

Borehole No	BH-117B-05
Page	6 of 7
Date of desc.	April 6, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 20, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-36	**39.22**	**40.77**			100	98	4			39.32 and 39.42	2 J	C	R	Sm	Tr K, Tr Ca	Gr + Wt	30°	
										39.77	J	C	R	Sm	Tr Ca	Wt	40°	
										40.12	J	C	R	Sm	Tr Ca	Wt	40°	
DC-37	**40.77**	**42.32**			100	99	3			41.59 and 41.64	2 Jfol	C	R	Sm			70°	
										42.04	J	C	R	Sm			20°	
											Ji = 2 Following the bedding							
DC-38	**42.32**	**43.89**			100	100	6			42.58 - 43.49	6 Jfol	C	R	Sm			60°	
DC-39	**43.89**	**45.09**			100	83	6			43.97 - 44.72	5 Jfol	C	R	Sm			60°	
										44.80	J	C	R	Sm			50°	
										44.90 and 45.00	2 Jfol	C	R	Sm			60°	
DC-40	**45.09**	**46.61**			100	100	6			45.09 - 46.61	6 Jfol	C	R	Sm			60°	
DC-41	**46.61**	**47.83**			100	100	4			46.61 - 47.83	4 Jfol	C	R	Sm			60°	

* angle from borehole axis (m)

lig. lightly

prob. probably

X fault striation

s. some

tr. traces of

Sli. slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	50.11
Core barrel size	NQ-3
Dip	
Strike	

Borehole No	BH-117B-05
Page	7 of 7
Date of desc.	April 6, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 20, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-42	**47.83**	**49.40**			100	100	4			47.95 and 48.03	2 Jfol	C	R	Sm			50°	
										48.62 and 48.74	2 Jfol	Op	R	Sm			20°	
											Ji = 3 Following the bedding							
DC-43	**49.40**	**50.11**			100	100	1			49.71	J	C	R	Sm			40°	
											Ji = 4 at various angle							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	4.45
Core barrel size	NQ-3
Dip	90°
Strike	N/A

Borehole No	BH-301-05
Page	1 of 1
Date of desc.	April 13, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 21, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-4	**1.50**	**1.75**			100	0				1.50 - 1.75	Fragments of rock, slightly oxidized							
											Ji = Many at various angle							
DC-5	**1.75**	**2.33**			100	0	18			1.75 - 2.05	9 Jfol	Op	R	Sm	Cl	Br	50°	Filling 1 mm thick
										2.05 - 2.33	8 Jfol	C	R	Sm			50°	
										2.33	1 Jfol	Op	R	Sm	M	G	50°	Filling 1 mm thick
DC-6	**2.33**	**3.15**			100	0	11			2.33 and 2.41	2 Jfol	C	R	Sm			60°	
										2.53	J	C	I	Rug			0°-10°	
										2.75 - 3.15	8 Jfol	C	R	Sm			60°	
											Ji = 7 Following the bedding							
DC-7	**3.15**	**3.84**			96	21	5			3.20 - 3.74	4 Jfol	C	R	Sm			50°	
										3.74	Jfol	Op	R	Sm	M	G	50°	Filling 50 mm thick
											Ji = 6 Following the bedding							
DC-8	**3.84**	**4.45**			100	0	12			3.84 - 4.45	12 Jfol	C	R	Sm			50°	
											Ji = 4 Following the bedding							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	7.26
Core barrel size	NQ-3
Dip	90°
Strike	N/A

Borehole No	BH-302-05
Page	1 of 1
Date of desc.	April 14, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 21, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-7	**4.58**	**5.69**			90	75	5			4.63	Jfol	C	R	Sm			20°	
										4.66	J	Op	R	Rug			90°	
										4.82	Jfol	Op (?)	R	Sm			30°	
										5.51	J	Op	R	Sm	M	G	80°-90°	
										5.60	Jfol	C	R	Sm			30°	
											Ji = 2 (30° and 90°)							
DC-8	**5.69**	**6.45**			100	100	3			5.95 - 6.45	3 Jfol	C	R	Sm			30°	
											Ji = 2 at 90°							
DC-9	**6.45**	**7.26**			100	100	4			6.55	Jfol	C	R	Sm			30°	
										6.84	J	C	I	Rug	Ca	Wt	40°	
										6.94 and 7.16	2 Jfol	C	R	Sm			30°	
											Ji = 2 at 90°							

* angle from borehole axis (m)

lig. lightly **s.** some

prob. probably **tr.** traces of

X fault striation **Sli.** slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	2.93
Core barrel size	NQ-3
Dip	90°
Strike	N/A

Borehole No	BH-303-05
Page	1 of 1
Date of desc.	April 19, 2005
Described by :	Isabelle Robillard, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 21, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-5	**2.44**	**4.14**			100	52	7			2.61	J	C	I	Rug			45°	1 joint
										2.75 - 3.01	J	Op	I	Rug			25°	2 joints
										3.32	J	Op	R	Sm	Ca		20°	1 joint
										3.32 - 3.77	Ji						85°	2 joints
										3.85	J	Op	R	Rug	M, I	BG, O	30°	1 joint
										3.85 - 4.14	Fractured and fissile rock							
DC-6	**4.14**	**4.65**			100	0	7			4.14 - 4.55	J	Op	R	Sm	Gypse	B	5°-20°	4 joints, X
										4.14 - 4.55	Ji							3 joints
										4.55 - 4.65	Fractured and fissile rock							
DC-7	**4.65**	**5.44**			100	29	6			4.65 - 5.44	J	Op	R	Sm	Gypse	B	20°	3 joints
											Jfol	Op	R	Sm	M	Bg	45°	3 joints

* angle from borehole axis (m)

lig. lightly **s.** some

prob. probably **tr.** traces of

X fault striation **Sli.** slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	6.22
Core barrel size	NQ-3
Dip	90°
Strike	N/A

Borehole No	BH-304-05
Page	1 of 1
Date of desc.	April 14, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 21, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-6	**3.12**	**4.65**			100	44	16			3.14	Jfol	Op	R	Sm	I	Bg	60°	
										3.28 - 3.64	6 Jfol	C	R	Sm			60°	
										3.64 and 3.69	2 Jfol	Op	R	Sm	Cl	Br	60°	Filling 3 mm thick
										3.78	J	Op	R	Sm	Tr Cl	Br	50°	
										3.84	Jfol	Op	R	Sm	Cl	Br	60°	Filling 1 mm thick
										3.94	J	Op	I	Rug	Cl	Br	70°-90°	
										3.54 - 3.59	Fragments of rock + clay							
										4.18 and 4.35	2 Jfol	Op	R	Sm	Cl	Br	80°	
										4.62	J	Op	I	Rug	Ca	Wt	0°-10°	
											Ji = 5 Following the bedding							
DC-7	**4.65**	**6.22**			100	65	17			4.65 - 4.96	5 Jfol	C	R	Sm			80°	
										5.01 - 5.04	Fragments of rock + clay							
										5.10 - 5.78	7 Jfol	Op	R	Sm	Cl	Br	60°	
										6.09	J	Op	I	Rug	Tr Cl	Br	10°	
										6.10 and 6.16	2 Jfol	Op	R	Sm	Tr Cl	Br	60°	
											Ji = 3 at 80°							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	3.79
Core barrel size	NQ-3
Dip	90°
Strike	N/A

Borehole No	BH-305-05
Page	1 of 1
Date of desc.	April 19, 2005
Described by :	Isabelle Robillard, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 21, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-4	**1.60**	**2.82**			73	0	4			1.60 - 2.10	Rock was mechanically crushed							
										2.15	J	C	R	Rug			50°	2 joints
										2.20 - 2.30	J	Op	R	Sm	I	O	10°	2 joints, X
										2.30 - 2.82	Fractured and fissile rock							
DC-5	**2.82**	**3.12**			83	0	2			2.82 - 3.05	Fractured and fissile rock							
										3.05 - 3.12	J	Op	I	Rug	G	B	60°	2 joints
DC-6	**3.12**	**4.47**			96	50	14			3.12 - 4.47	Jfol	Op	R	Sm	M	G	45°	4 joints
										3.39 - 3.64	Ji							3 joints
										3.77	J	Op	R	Sm	M	Bg	45°	1 joint
										3.87	J	Op	R	I			30°	1 joint
										3.92 - 4.47	Jfol	C	R	Rug			45°	5 joints
DC-7	**4.47**	**5.39**			100	67	7			4.47 - 4.84	Jfol	C	R	Rug			45°	4 joints
										4.77	J	Op	R	Sm	Ca	Wt	80°	1 joint
										4.79	J	Op	I	Rug	Ex	Wt	20°	1 joint
										5.26 - 5.39	Rock was mechanically crushed							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	4.32
Core barrel size	NQ-3
Dip	90°
Strike	N/A

Borehole No	BH-306-05
Page	1 of 1
Date of desc.	April 14, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 21, 2005	

Run No.	Length (m) from	Length (m) to	Length (ft-in) From	Length (ft-in) to	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-4	**1.52**	**2.74**			100	24	20			1.52 - 2.74	20 Jfol	Op	R	Sm	I	Br	60°	
											Ji = 6 Following the bedding							
DC-5	**2.74**	**4.32**			100	59	19			2.74 - 3.06	5 Jfol	Op	R	Sm	I	Br	60°	
										3.11	J	Op	R	Sm	I	Br	50°	
										3.19 - 3.33	3 Jfol	Op	R	Sm	I	Br	60°	
										3.43 and 3.51	2 J	Op	R	Sm	I	Br	50°	
										3.51	J	Op	R	Sm	I	Br	70°	
										3.59 - 4.01	6 Jfol	Op	R	Sm	I	Br	60°	
										4.12	J	Op	R	Sm	I	Br	40°	
											Ji = 4 Following the bedding							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	4.75
Core barrel size	NQ-3
Dip	90°
Strike	N/A

Borehole No	BH-307-05
Page	1 of 2
Date of desc.	April 14, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 21, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-3	**1.02**	**2.39**			85	54	6 +			1.02 - 1.35	Fragemnts of rock, possibly induced by drilling							
										1.35	J	Op	R	Sm			60°	
										1.62	J	Op	I	Rug	I	Br	60°-90°	
										1.78	J	Op	I	Sm	I	Br	60°-90°	
										1.86	J	Op	R	Sm	M	Bg	60°	Filling 30 mm thick
										1.91	J	Op	R	Sm	I	Br	50°	
										1.98 - 2.39	Fragemnts of rock, silt and clay, partial recovery							
											Ji = 10 at various angle							
DC-4	**2.39**	**3.86**			100	56	13			2.49	J	Op	R	Sm	I	Bg	20°	
										2.59 - 2.78	Fragments of rock, possibly induced by drilling							
										2.78 and 2.86	2 J	C	I	Rug			80°-90°	
										2.90	J	C	I	Rug			70°	
										3.10	J	C	R	Sm			20°	
										3.16 and 3.12	2 J	Op	R	Sm	Tr I	Br	60°	
										3.21 and 3.26	2 J	Op	I	Rug	Tr I	Br	90°	
										3.48	J	Op	I	Rug	I	Br	70°	
										3.62	J	C	R	Sm			50°	
										3.68	J	Op	I	Rug	I	Br	80°-90°	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 2)
Location	Levis
File No	T-1050-B
Contrat	603333-KELL

Length in bedrock (m)	4.75
Core barrel size	NQ-3
Dip	90°
Strike	N/A

Borehole No	BH-307-05
Page	2 of 2
Date of desc.	April 14, 2005
Described by :	Christian Boucher, geol.
Approuved :	A. Blanchette, geol., M.A.Sc.

Depth (m)	**Dip**	**Strike**
Date:	April 21, 2005	

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										3.76 - 3.86	fragments of rock slightly altered							
											Ji = 10 at various angle							
DC-5	**3.86**	**4.75**			100	43	9			3.94 and 4.00	2 J	Op (?)	R	Rug	Tr I	Br	40°	
										4.09 - 4.45	6 Jfol	Op / C	R	Sm	Tr I	Br	60°	
										4.67	J	Op	I	Rug	I	Br	90°	
											Ji = 5 at various angle							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	6.63
Core barrel size	PQ
Dip	90º
Strike	N/A

Borehole No	**BH-501-05**
Page	1 of 2
Date of desc.	October 26, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-15	**13.21**	**13.92**			100	0	15			13.24	Jfol	C	R	Sm			40	
										13.29	Jfol	C	R	Sm			40	
										13.34	J	C	R	Sm	tr. Ca	wt	55	
										13,34 - 13,44	Jfol	C	R	Sm			40	3 joints
										13.53	J	C	R	Sm	tr. Ca	wt	50	
										13,60 - 13,70	Jfol	C	R	Sm			40	4 joints
										13,78 - 13,90	Jfol	C	R	Sm			40	Fractured rock
										13,21 - 13,92	Ji							following the bedding
DC-16	**13.92**	**14.78**			88	48	10			14.02	J	Op	I	Rug	tr. M	bg	90	
										14,11 - 14,25	Jfol	C	R	Sm			40	3 joints
										14.45	J	C	R	Sm	Ca	wt	50	
										14.50	J	C	R	Sm			45	
										14.55	J	C	R	Sm	tr. Ca	wt	30	
										14,67 - 14,78	Jfol						various	3 joints, fractured rock
										13,92 - 14,78	Ji							5 joints
DC-17	**14.78**	**15.82**			100	74	10			14,78 - 15,82	Jfol	C	R	Sm			40	10 joints
										14,78 - 15,82	Ji						various	4 joints
DC-18	**15.82**	**16.43**			100	66	8			15,82 - 16,03	Jfol	C	R	Sm			40	3 joints
										16.10	J	C	R	Sm	s. P	y	35	

* angle from borehole axis (m)

lig. lightly

prob. probably

X fault striation

s. some

tr. traces of

Sli. slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	6.63
Core barrel size	PQ
Dip	90º
Strike	N/A

Borehole No	**BH-501-05**
Page	2 of 2
Date of desc.	October 26, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										16,23 - 16,43	Jfol	C	R	Sm			40-45	4 joints
										15,82 - 16,43	Ji						50	2 joints
DC-19	**16.43**	**17.15**			100	32	12			16.50	J	Op	I	Rug	Sm	g	70º	
										16.54	J	C	R	Sm			45º	
										16,56 - 16,75	Jfol	C	R	Sm			40º	3 joints
										16.50	J	Op	R	Sm	tr. Ca	wt	45º	
										16.90	J	C	R	Rug	tr. Ca	wt	55º	
										16,90 - 17,15	Jfol	C	R	Sm			50º	5 joints
										16,43 - 17,15	Ji						various	4 joints
DC-20	**17.15**	**18.67**			70	27	16			17,15 - 17,29	Jfol	Op	R	Sm	s. M	g	50º	
										17.41	J	Op	I	Rug	s. M	g	90º	
										17,57 - 17-74	Jfol	Op	R	Sm	tr. M	g	50º	4 joints
										17.90	J	Op	R	Sm	s. M	g	30º	
										18,00 - 18,67	Jfol				M			many joints, fractured rock
DC-21	**18.67**	**19.84**			100	18	20			18,67 - 19,84	Jfol	Op	R	Sm	s. M	g	45-50º	20 joints
										18,67 - 19,84	Ji						60º	2 joints

* angle from borehole axis (m)

lig. lightly

prob. probably

X fault striation

s. some

tr. traces of

Sli. slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	9.67
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-502-05**
Page	1 of 3
Date of desc.	November 1, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-9	**5.16**	**5.82**			100	38	8			5,20 - 5,75	Jfol	Op	R	Sm	tr. M	g	40	8 joints
											Ji							2 joints, following the
DC-10	**5.82**	**6.40**			100	83	3			5,91 - 6,25	Jfol	C	R	Sm	tr. Ca	wt	40	3 joints
											Ji						50	4 joints
DC-11	**6.40**	**7.92**			100	92	7			6.66	Ffol	C	R	Sm			40	
										6.71	J	Op	Î	Rug	tr. M	br	45	
										6,90 - 7,36	Jfol	C	R	Sm			40	3 joints
										7.42	J	Op	I	Rug	tr. Ca	wt	30	
										7.54	Jfol	C	R	Sm			40	
											Ji							8 joints, following the
DC-12	**7.92**	**8.46**			100	89	3			8.40	Jfol	C	R	Sm			45	
										8.43	J	C	R	Sm			55	
										8.46	Jfol	C	R	Sm			45	
											Ji							5 joints, following the
DC-13	**8.46**	**9.45**			100	82	5			8.48	Jfol	C	R	Sm			45	
										5.56	J	C	I	Rug	tr. P	y	50	
										8.68	J	C	I	Rug			60	
										8.76	J	C	I	Rug	tr. P	y	20	
										8.88	J	C	R	Sm			45	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	9.67
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-502-05**
Page	2 of 3
Date of desc.	November 1, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
											Ji						various	5 joints
DC-14	**9.45**	**10.39**			100	73	8			9.71	Jfol	C	R	Sm			35	
										9.74	J	C	R	Sm			45	
										9.82	J	C	R	Sm			30	
										9.85	J	Op	R	Sm	tr. M	g	40	
										9.90	J	Op	R	Sm	tr. M	g	40	
										10,07 - 10,32	Jfol	Op	R	Sm	tr. M	g	40	
											Ji							2 joints, following the
DC-15	**10.39**	**11.40**			100	88	5			10,52 - 10,98	Jfol	Op	R	Sm	tr. M	g	35	3 joints
										11.29	J	Op	I	Rug	tr. M	g	55	
										11.40	Jfol	C	R	Sm			35	
											Ji							4 joints, following the
DC-16	**11.40**	**12.80**			100	74	11			11.48	J	Op	R	Sm	Ca	wt	55	
										11,65 - 11,73	Jfol	C	R	Sm			35	2 joints
										11.85	J	Op	I	Rug	s. M	g	80	
										11.99	Jfol	C	R	Sm			35	
										12.21	J	Op	R	Rug	Ca	wt	70	
										12.30	J	Op	R	Rug	tr. M	g	50	
										12.43	J	Op	I	Rug	tr. M	g	70	

* angle from borehole axis (m)

lig. lightly

prob. probably

X fault striation

s. some

tr. traces of

Sli. slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op =: closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm = rugged / smoth

J => joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	9.67
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-502-05**
Page	3 of 3
Date of desc.	November 1, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										12.45	J	Op	I	Rug	s. M	g	45	
										12.62	J	Op	I	Rug	s. M	g	45	
										12.80	Jfol	C	R	Sm			35	
											Ji						various	5 joints
DC-17	**12.80**	**13.64**			100	79	5			12.92	J	Op	I	Rug	tr. I	br	50	
										13.06	J	C	R	Sm			20	
										13,10 - 13,58	Jfol	C	R	Sm			40	3 joints
											Ji						50	2 joints
DC-18	**13.64**	**14.83**								14,22 - 14,83	Jfol	C	R	Sm			40	6 joints
											Ji							3 joints, following the

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	3.13
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-503-05**
Page	1 of 1
Date of desc.	November 1, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-34	**24.00**	**25.33**			100	85	9			24.18	Jfol	Op	R	Sm			35	
										24.28	J	F	R	Sm	Ca	wt	50	
										24.39	Jfol	C	R	Sm			35	
										24.61	Jfol	Op	R	Sm			35	
										24.67	Jfol	Op	R	Sm			35	
										24.90	J	Op	R	Sm	s. M	g	90	
										25.18	J	Op	R	Sm	X	b	35	
										25.22	J	Op	I	Sm			60	
										25.33	Jfol	C	R	Sm			40	
											Ji						various	10 joints
DC-35	**25.33**	**26.24**			100	69	10			25.36	Jfol	C	R	Sm			35	
										25.39	Jfol	C	R	Sm			35	
										25.55	J	C	R	Sm			60	
										25,82 - 25,83	Jfol	C	R	Sm			35	2 joints
										25.89	J	Op	I	Rug			40	
										26,03 - 26,24	Jfol	C	R	Sm			40	
											Ji						various	5 joints
DC-36	**26.24**	**27.13**			100	100	2			26,51 and 27,13	Jfol	C	R	Sm			40	2 joints
											Ji						various	2 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	3.20
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-505-05**
Page	1 of 1
Date of desc.	November 8, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-5	**1.52**	**1.96**			100	27	5			1,65 - 1,96	Jfol	C	R	Sm			35	5 joints
DC-6	**1.96**	**3.18**			100	40	12			2,00 - 3,15	Jfol	C	R	Sm			35-40	12 joints
											Ji						various	6 joints
DC-7	**3.18**	**4.17**			100	84	7			3,31 and 3,51	Jfol	C	R	Sm			35	2 joints
										3.63	J	Op	R	Sm	tr. M	g	45	
										3,70 - 4,17	Jfol	C	R	Sm			35	4 joints
										Ji								2 joints, following the
DC-8	**4.17**	**4.72**			100	62	6			4,17 - 4,72	Jfol	C	R	Sm			35	6 joints
											Ji							4 joints, following the

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	39.75
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-507-05**
Page	1 of 8
Date of desc.	November 9, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-3	**1.27**	**1.85**			26	0	many			1,27 - 1,85								Fractured rock
DC-4	**1.85**	**3.35**			55	34	7+			1,85 - 2,05								Fractured rock
										2,02 - 2,34	Jfol	C	R	Sm	tr. I	br	20	4 joints
										2.39	J	Op	R	Rug	tr. M	g	90	
										2.55	J	C	R	Rug			35	
										2.77	Jfol	C	R	Sm			20	
										2,77 - 3,35								Fractured rock
DC-5	**3.35**	**4.24**			100	100	3			3.50	Jfol	C	R	Sm			35	
										3.86	J	C	R	Sm	tr. X	br	10	
										4.13	J	C	R	Sm			25	
											Ji							4 joints, following the
DC-6	**4.24**	**5.08**			100	81	6			4.46	Jfol	C	R	Sm			40	
										4,50 and 4,57	Jfol	C	R	Sm			30	2 joints
										4,60 and 4,62	Jfol	Op	R	Sm	tr. M	r	40	2 joints
										5.08	Jfol	C	R	Sm			35	
											Ji							4 joints, following the
DC-7	**5.08**	**6.05**			100	94	6			5,34 - 6,00	Jfol	C	R	Sm			40	6 joints
											Ji							2 joints, following the
DC-8	**6.05**	**6.63**			100	66	6			6,15 and 6,33	Jfol	C	R	Sm			40	2 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with : R
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	39.75
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-507-05**
Page	2 of 8
Date of desc.	November 9, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										6,43 and 6,46	Jfol	C	R	Sm			35-40	2 joints
										6.54	Jfol	Op	R	Sm	tr. I	br	40	
										6,57 - 6,63					tr. X			Fractured rock
											Ji						various	5 joints
DC-9	**6.63**	**7.92**			100	55	14			6.77	J	Op	R	Rug	tr. I	br	45	
										6,80 - 7,05	Jfol	C	R	Sm			45	6 joints
										7.13	J	C	R	Sm	tr. I	br	20	
										7,21 - 7,24	Jfol	C	R	Sm	tr. Ca	wt	60	
										7.32	J	Op	I	Sm	tr. I	br	20	
										7.65	J	Op	R	Rug	tr. I	br	55	
										7.70	J	Op	I	Rug			90	
										7.71	J	Op	R	Sm	s. Cl	br	20	
											Ji						various	many joints
DC-10	**7.92**	**9.40**			100	58	14+			7,92 - 8,65				s. I, tr. X			various	many fractures
										8.65	J	Op	R	Sm	tr. I	br	55	
										8.80	J	Op	R	Rug			55	
										8.86	Jfol	C	R	Sm	tr. X	br	30	
										9.06	J	C	R	Sm			80	
										9.07	J	C	R	Sm	tr. X	br	20	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with : R
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	39.75
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-507-05**
Page	3 of 8
Date of desc.	November 9, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										9,10 - 9,40					s. l		various	many fractures
											Ji						various	many joints
DC-11	**9.40**	**10.90**			100	55	10+			9.57	J	Op	R	Sm	Ca	wt	60	
										9,79 - 9,97	J							3 joints + fractured rock
										10,20 - 10,58	Jfol	C	R	Sm	tr. Ca	wt	40	5 joints
										10,58 - 10,90								fractured rock
											Ji						various	many joints
DC-12	**10.90**	**12.47**			100	90	6			10.95	J	Op	R	Sm			65	
										11.39	J	C	R	Sm			20	
										12.08	Jfol	C	R	Sm			35	
										12.12	J	C	R	Sm			45	
										12.19	J	C	R	Sm			45	
										12.47	J	Op	R	Sm	tr. M	g	45	
											Ji						80	4 joints
DC-13	**12.47**	**14.00**			100	65	2+			12.97	J	?	R	Sm			50	
										13.48	J	C	R	Sm			30	
										13,50 - 14,00	Fractured rock with evidence of many joints.							
DC- 14	**14.00**	**15.52**			100	87	5			14.15	J	C	R	Sm			35	
										14,68 and 14,74	J	C	R	Sm			45	2 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with : R
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	39.75
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-507-05**
Page	3 of 8
Date of desc.	November 9, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										15.05	J	C	R	Sm			20	
										15.38	J	Op	R	Sm			80	
										15,38 - 15,52					tr. M			Fractured rock
DC-15	**15.52**	**16.71**			100	77	6			15.75	Jfol	C	R	Sm	tr. X	b	35	
										15.79	J	C	R	Rug			80	
										15.83	J	Op?	R	Rug			55	
										15.94	Jfol	Op	R	Sm	tr.X	b	30	
										16.07	Jfol	Op	R	Sm	tr.X	b	30	
										16.42	J	Op	R	Sm	tr. Ca	wt	50	
										16,59 - 16,71								Fractured rock
											Ji	Many joints, following the bedding.						
DC-16	**16.71**	**17.68**			100	91	4+			16.84	J	C	R	Sm			55	
										16.98	J	Op	R	Sm	tr. X	b	20	
										17,01 - 17,07					tr. I			Fractured rock
										17.37	J	Op	R	Sm			15	
										17.49	J	Op	R	Sm	tr. X	b	20	
											Ji						various	4 joints
DC-17	**17.68**	**19.23**			93	71	7			17.78	J	C	R	Sm			55	
										18,38 - 18,48	Fractured rock with evidence of joints.							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with : R
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	39.75
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-507-05**
Page	4 of 8
Date of desc.	November 9, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
										18.56	Jfol	Op	R	Sm	tr. X	b	35	
										18.65	J	C	R	Sm			50	
										18.72	J	C	R	Sm			90	
										18.85	Jfol	C	R	Sm			30	
										19.04	J	Op	R	Sm	tr. Ca	wt	35	
											Ji						various	many joints
DC-18	**19.25**	**20.80**			90	77	6			19.43	J	Op	R	Sm			70	
										19.49	J	C	R	Sm			50	
										19.51	J	C	R	Sm			50	
										19.75	J	C	I	Rug			5-15	
										19.95	Jfol	C	R	Sm	tr. Ca	wt	20	
										20,39 - 20,45								Fractured rock, following the bedding.
										20,58 - 20,80								Fractured rock.
										19,25 - 20,80	Ji						various	many joints
DC-19	**20.80**	**21.59**			76	44	3+			20.85	Jfol	C	R	Sm			20	
										20.99	Jfol	C	R	Sm			20	
										21.28	J	C	R	Sm			50	
										21,28 - 21,59					M			Fractured rock.
										20,80 - 21,59	Ji						various	many joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with : R

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	39.75
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-507-05**
Page	5 of 8
Date of desc.	November 9, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-20	**21.59**	**22.38**			100	97	3			21.73	J	C	R	Sm			55	
										22.04	Jfol	C	R	Sm			10	
										22,24 - 22,26							Fractured rock, following a joint.	
										21,59 - 22,38	Ji						60	5 joints
DC-21	**22.38**	**23.32**			100	68	7			22.53	Jfol	C	R	Sm			20	
										22.73	J	Op			Q		75	Quartz veinlet
										22.83	J	Op			Q		75	Quartz veinlet
										22.91	Jfol	C	R	Sm			20	
										23.01	J	Op	R	Sm	tr. M	g	60	
										23.11	Jfol	Op	R	Sm	tr. X	b	20	
										23.28	Jfol	Op	R	Sm	tr. X	b	20	
										22,38 - 23,32	Ji						various	many joints
DC-22	**23.32**	**23.70**			100	100	3			23,44 - 23,70	Jfol	C	R	Sm				3 joints
DC-23	**23.70**	**24.61**			100	54	4+			23.78	J	Op	I	Rug			50	
										23.87	Jfol	C	R	Sm			10	
										23.98	J	Op	I	Rug			50	
										24.15	Jfol	C	R	Sm			10	
										24,30 - 24,61								Many joints and fractured rock.
										23,70 - 24,61	Ji						various	Many joints.

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with : R

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	39.75
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-507-05**
Page	6 of 8
Date of desc.	November 9, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-24	**24.61**	**26.14**			100	86	8			24.83	J	Op	R	Sm			40	
										24.89	J	C	R	Sm			60	
										25.21	Jfol	C	R	Sm			20	
										25.37	J	Op?	R	Sm	tr. X	b	30	
										25.47	J	C	R	Sm			90	
										25.60	J	C	R	Sm			90	
										25,75 - 25,80								Fractured rock.
										26.04	J	C	R	Sm	tr. Ca	wt	20	
										26.14	J	C	R	Sm			60	
										24,61 - 26,14	Ji						various	many joints
DC-25	**26.14**	**27.66**			100	95	6			26.39	J	Op	R	Sm			50	
										26.63	J	C	R	Sm	Ca	p	70	
										26.69	J	Op?	R	Sm	tr. Ca	wt	55	
										26.92	J	Op?	R	Sm	tr. X	b	40	
										27.07	Jfol	C	R	Sm			10	
										27.37	J	Op	R	Rug			60	
										26,14 - 27,66	Ji						various	6 joints
DC-26	**27.66**	**28.75**			92	9	many			27,66 - 28,75							various	Many joints and fractures
DC-27	**28.75**	**29.77**			88	15	many			28,75 - 29,77							various	Many joints and fractures

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with : R
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	39.75
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-507-05**
Page	7 of 8
Date of desc.	November 9, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-28	**29.77**	**31.32**			86	13	many			29,77 - 31,32							various	Many joints and fractures.
DC-29	**31.32**	**31.80**			98	0	many			31,32 - 31,80								Fractured rock.
DC-30	**31.80**	**32.05**			100	0	many			31,80 - 32,05							various	Many joints and fractures.
DC-31	**32.05**	**33.63**			100	87	7			32,36 - 33,16	Jfol	C	R	Sm			35	3 joints
										33.27	Jfol	C	R	Sm	s. Ca	wt	90	
										32,31 - 33,40								Fractured rock.
										33.50	Jfol	C	R	Sm			35	
										33.54	Jfol	C	R	Sm			35	
										32,05 - 33,63	Ji						various	4 joints
DC-32	**33.63**	**35.02**			100	91	8			33.73	Jfol	C	R	Sm			60	
										33.76	Jfol	C	R	Sm			60	
										33,89 - 34,65	Jfol	C	R	Sm			35	6 joints
										33,63 - 35,02	Ji						various	4 joints
DC-33	**35.02**	**35.95**			100	63	6+			35.21	Jfol	C	R	Sm			35	
										35.24	Jfol	C	R	Sm			35	
										35.29	J	C	I	Rug			20	
										35,39 - 35,72	Jfol	C	R	Sm			35	
										35,81 - 35,99								Fractured rock.
										35,02 - 35,95	Ji						various	Many joints.

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with : R
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

Certifiée ISO 9001

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 3)
Location	Lévis, Québec
File No	T-1050C
Contrat	**604238**

Length in bedrock (m)	39.75
Core barrel size	NQ3
Dip	90º
Strike	N/A

Borehole No	**BH-507-05**
Page	8 of 8
Date of desc.	November 9, 2005
Described by :	Christian Boucher
Approuved :	

Depth (m)	**Dip**	**Strike**
N/A	N/A	N/A
Date:		

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-34	**35.99**	**36.65**			98	76	2+			36.41	Jfol	C	R	Sm			35	
										36.43	Jfol	Op	R	Rug			90	
										36,48 - 36,65								Fractured rock
DC-35	**36.65**	**38.05**			98	88	9			36,77 - 37,42	Jfol	C	R	Sm			30	4 joints
										37.53	Jfol	C	R	Sm			60	
										37,58 - 38,05	Jfol	C	R	Sm			30	4 joints
										36,65 - 38,05	Ji						various	3 joints
DC-36	**38.05**	**38.13**			100	100	0											
DC-37	**38.13**	**39.04**			100	68	7			38.26	J	C	I	Rug			20	
										38.40	J	C	R	Sm			30	
										38.48	J	C	R	Sm			10-Mar	
										38.52	J	Op?	R	Sm			90	
										38,60 - 38,97	Jfol	C	R	Sm			30	
										38,13 - 39,04	Ji						various	4 joints
DC-38	**39.04**	**39.65**			100	72	4			39,16 - 39,33	Jfol	C	R	Sm			30	
DC-39	**39.65**	**41.02**			100	88	8			39,89 - 40,85	Jfol	C	R	Sm			35	
										39,65 - 41,02	Ji						70	1 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with : R
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	= rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 1)
Location	Levis / Beaumont
File No	T-1050-A
Contrat	603333-RABA

Length in bedrock (m)	5.82
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	**W-001-04**
Page	1 of 1
Date of desc.	27-Oct-04
Described by :	C. Boucher, Geol. in training.
	Alain Blanchette, Geol.

Depth (m)	Dip	Strike

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-2	**0.30**	**0.76**	*1-0*	*2-6*	100	0				0.30 - 0.76		Severely fractured rock						
DC-3	**0.76**	**1.37**	*2-6*	*4-6*	96	0	5			0.76 - 0.91		Severely fractured rock						
										0.91 - 1.37	J	Op	R	Sm	s. silt	br	70	5 joints
DC-4	**1.37**	**2.97**	*4-6*	*9-9*	100	82	5			1.52	J	Op	R	Sm	tr. silt	br	60	
										1.73- 1.80	J	C	I	Sm	Ca	w	70	2 joints
										2.06	J	Op	I	Sm	tr. silt	br	70	
										2.87	J	Op	I	Sm	tr. silt	br	70	
DC-5	**2.97**	**4.57**	*9-9*	*15-0*	100	91	3			3.81	J	C	I	Sm			70	
										3.89	J	Op	I	Sm	s. silt	br	70	
										4.09	J	C	R	Sm			70	
DC-6	**4.57**	**6.12**	*15-0*	*20-1*	100	100	1			5.77	Jfol	C	I	Sm			70	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I**: Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 1)
Location	Levis / Beaumont
File No	T-1050-A
Contrat	603333-RABA

Length in bedrock (m)	12.70
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	**W-002-04**
Page	1 of 1
Date of desc.	27-Oct-04
Described by :	C. Boucher, Geol. in training.
	Alain Blanchette, Geol.

Depth (m)	Dip	Strike

Run	Length (m)		*Length (ft-in)*		Recovery	RQD	Number	Return of water		DESCRIPTION								
No.	from	to	*From*	*to*	(%)	(%)	of joints	(%)	Color	Length (m)	Type	Details				Covered with :	Color	Angle*	Remarks
DC-5	**2.69**	**2.90**	*8-10*	*9-6*	75	0				2.69 - 2.90	Rock fragments								
DC-6	**2.90**	**3.20**	*9-6*	*10-6*	100	33	6			2.90 - 3.20	Jfol	C	R	Sm				40	6 joints
DC-7	**3.20**	**4.17**	*10-6*	*13-8*	100	53	10			3.20 - 4.17	Jfol	C	R	Sm				40	10 joints
DC-8	**4.17**	**4.72**	*13-8*	*15-6*	100	32	6			4.17 - 4.72	Jfol	C	R	Sm				40	6 joints
DC-9	**4.72**	**5.36**	*15-6*	*17-7*	100	32	5			4.72 - 5.36	Jfol	C	R	Sm				40	5 joints
DC-10	**5.36**	**6.25**	*17-7*	*20-6*	100	80	6			5.36 - 6.25	Jfol	C	R	Sm				40	6 joints
DC-11	**6.25**	**7.47**	*20-6*	*24-6*	100	75	5			6.25 - 7.26	Jfol	C	R	Sm				40	5 joints
										7.26 - 7.47	Severely fractured rock, presence of silt								
DC-12	**7.47**	**7.75**	*24-6*	*25-5*	100	100	1			7.59	Jfol	C	R	Sm				40	
DC-13	**7.75**	**9.27**	*25-5*	*30-5*	67	28	2			7.75 - 8.00	Rock fragments								
										8.00	Jfol	C	R	Sm				40	
										8.25	J	Op	I	Rug				40	
										8.25 - 9.27	Rock fragments, partial recovery								
DC-14	**9.27**	**10.82**	*30-5*	*35-6*	100	97	5			9.83	Jfol	C	R	Sm				40	
										10.03	J	C	R	Sm				60	
										10.34 - 10.82	Jfol	C	R	Sm				40	3 joints
DC-15	**10.82**	**10.97**	*35-6*	*36-0*	83	0				10.82 - 10.97	Rock fragments								
DC-16	**10.97**	**12.34**	*36-0*	*40-6*	100	100	2			11.48	Jfol	C	R	Sm				40	
										12.01	Jfol	C	R	Sm				40	
DC-17	**12.34**	**13.87**	*40-6*	*45-6*	100	87	6			12.34 - 13.87	Jfol	C	R	Sm				40	6 joints
DC-18	**13.87**	**15.39**	*45-6*	*50-6*	100	100	5			13.87 - 15.39	Jfol	C	R	Sm				40	5 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I**: Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=: closed / open	Rug / Sm	: rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 1)
Location	Levis / Beaumont
File No	T-1050-A
Contrat	603333-RABA

Length in bedrock (m)	9.68
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	**W-003-04**
Page	1 of 1
Date of desc.	28-Oct-04
Described by :	C. Boucher, Geol. in training.
	Alain Blanchette, Geol.

Depth (m)	Dip	Strike

Run No.	Length (m) from	Length (m) to	*Length (ft-in) From*	*Length (ft-in) to*	Recovery (%)	RQD (%)	Number of joints	Return of water (%)	Return of water Color	DESCRIPTION Length (m)	Type	Details			Covered with :	Color	Angle*	Remarks
DC-8	**5.64**	**6.22**	*18-6*	*20-5*	78	0				5.64 - 6.22	Rock fragments							
DC-9	**6.22**	**6.43**	*20-5*	*21-1*	100	0				6.22 -6.43	Rock fragments							
DC-10	**6.43**	**7.70**	*21-1*	*25-3*	84	64	6			6.43 - 7.42	Jfol	C	R	Sm			45	3 joints
										7.47	J	Op	R	Sm	silt	bg	50	
										7.54 - 7.62	Jfol	C	R	Sm			45	2 joints
DC-11	**7.70**	**9.02**	*25-3*	*29-7*	100	77	10			7.77 - 7.90	Jfol	C	R	Sm			45	2 joints
										8.03	J	Op	I	Rug	silt	bg	60	
										8.03 - 8.94	Jfol	C	R	Sm			45	5 joints
										8.94	J	Op	R	Sm	silt	bg	80	
										8.99	J	Op	R	Sm	silt	bg	45	
DC-12	**9.02**	**10.59**	*29-7*	*34-9*	100	85	9			9.02 - 10.16	Jfol	C	R	Sm			45	6 joints
										10.16	Jfol	Op	R	Sm	silt	g	45	
										10.31	Jfol	Op	R	Sm	silt	bg	45	
										10.46	J	C	R	Sm	tr. silt	bg	30	
DC-13	**10.59**	**12.17**	*34-9*	*39-11*	100	100	3			10.92 - 11.33	Jfol	C	R	Sm			45	2 joints
										11.63	Jfol	Op	R	Sm	silt	bg	45	
DC-14	**12.17**	**13.74**	*39-11*	*45-1*	100	85	5			12.83	Jfol	Op	R	Sm	silt	g	45	change of facies
										12.85	J	Op	R	Sm	silt	bg	90	
										12.90	Jfol	C	R	Sm			45	
										13.64	J	Op	R	Sm	silt	bg	80	
DC-15	**13.74**	**15.32**	*45-1*	*50-3*	100	88	8			13.79 - 14.05	Jfol	C	R	Sm			45	2 joints
										14.22 - 14.48	J	C	R	Sm	tr. silt	bg	80	2 joints
										14.53	Jfol	C	R	Sm			45	
										14.76	J	C	R	Sm	tr. silt	bg	80	
										14.96 - 15.09	J	C	R	Sm			80	2 joints

* angle from borehole axis (m)

lig. lightly **s.** some

prob. probably **tr.** traces of

X fault striation **Sli.** slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op => closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm : rugged / smoth

J => joint

Terratech

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 1)
Location	Levis / Beaumont
File No	T-1050-A
Contrat	603333-RABA

Length in bedrock (m)	11.61
Core barrel size	HQ
Dip	90°
Strike	N/A

Borehole No	**W-004-04**
Page	1 of 1
Date of desc.	28-Oct-04
Described by :	C. Boucher, Geol. in training.
	Alain Blanchette, Geol.

Depth (m)	**Dip**	**Strike**

Run No.	**Length (m) from**	**to**	***Length (ft-in) From***	***to***	**Recovery (%)**	**RQD (%)**	**Number of joints**	**Return of water (%)**	**Color**	**DESCRIPTION Length (m)**	**Type**	**Details**			**Covered with :**	**Color**	**Angle***	**Remarks**
DC-14	**11.25**	**12.42**	*36-11*	*40-9*	100	85	7			11.25 - 12.42	Jfol	C	R	Sm			50	7 joints
DC-15	**12.42**	**12.80**	*40-9*	*42-0*	100	33	6			12.42 - 12.80	Jfol	C	R	Sm			50	6 joints
DC-16	**12.80**	**13.94**	*42-0*	*45-9*	98	71	8			12.80 - 13.94	Jfol	C	R	Sm			50	8 joints
DC-17	**13.94**	**15.47**	*45-9*	*50-9*	100	82	8			13-94 - 14.60	Jfol	C	R	Sm			50	3 joints
										14.73	J	C	I	Rug			60	
										14.96 - 15.04	Jfol	C	R	Sm			50	2 joints
										15.21	J	C	I	Rug	tr. Ca	w	60	
										15.42	J	Op	I	Rug			80	
DC-18	**15.47**	**16.99**	*50-9*	*55-9*	100	85	7			15.85 - 15.95	Jfol	C	R	Sm			50	2 joints
										16.05 - 16.13	J	C	I	Rug	tr. Ca	w	60	2 joints
										16.18	Jfol	C	R	Sm			50	
										16.46 - 16.81	J	C	I	Rug			60	
DC-19	**16.99**	**18.52**	*55-9*	*60-9*	100	100	4			16.97 - 18.52	Jfol	C	R	Sm			60	4 joints
DC-20	**18.52**	**20.04**	*60-9*	*65-9*	100	92				18.92	Jfol	Op	R	Sm	Cl	r	50	50 mm clay
										19.89 - 20.04	Jfol	C	R	Sm			50	
DC-21	**20.04**	**21.56**	*65-9*	*70-9*	95	95	3			21.08	Jfol	C	R	Sm			50	
										21.21	J	C	I	Rug			50	
										21.56	Jfol	C	R	Sm	tr. Ca	w	50	
DC-22	**21.56**	**22.86**	*70-9*	*75-0*	100	100	2			22.38	Jfol	C	R	Sm			50	
										22.68	Jfol	C	R	Sm			50	

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I**: Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 1)
Location	Levis / Beaumont
File No	T-1050-A
Contrat	603333-RABA

Length in bedrock (m)	11.99
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	**W-005-04**
Page	1 of 1
Date of desc.	29-Oct-04
Described by :	C. Boucher, Geol. in training.
	Alain Blanchette, Geol.

Depth (m)	**Dip**	**Strike**

Run No.	**Length (m) from**	**to**	***Length (ft-in) From***	***to***	**Recovery (%)**	**RQD (%)**	**Number of joints**	**Return of water (%)**	**Color**	**DESCRIPTION Length (m)**	**Type**	**Details**			**Covered with :**	**Color**	**Angle***	**Remarks**
DC-5	**3.02**	**3.81**	*9-11*	*12-6*	90	13	13			3.02 - 3.28	Jfol	C	R	Sm			40	4 joints
										3.33	J	Op	I	Rug	tr. silt	r	90	
										3.33 - 3.81	Jfol	C	R	Sm			40	8 joints
DC-6	**3,81**	**4.34**	*12-6*	*14-3*	86	10				3.81 - 4.34	rock fractured along foliation						40	
DC-7	**4.34**	**5.28**	*14-3*	*17-4*	100	47	12			4.34 - 5.28	Jfol	C	R	Sm			40	12 joints
DC-8	**5.28**	**6.83**	*17-4*	*22-5*	100	87	6			5.79 - 5.82	J	C	I	Rug	tr. silt	g	80	2 joints
										6.02	J	C	R	Sm			90	
										6.12 - 6.83	Jfol	C	R	Sm			40	3 joints
DC-9	**6.83**	**7.80**	*22-5*	*25-7*	100	82	6			6.83 - 7.80	Jfol	C	R	Sm			40	7 joints
DC-10	**7.80**	**8.94**	*25-7*	*29-4*	100	60	9			7.80 - 8.94	Jfol	C	R	Sm			40	9 joints
DC-11	**8.94**	**10.52**	*29-4*	*34-6*	100	90	5			8.94 - 10.52	Jfol	C	R	Sm			40	5 joints
DC-12	**10.52**	**11.91**	*34-6*	*39-1*	100	87	6			10.52 - 11.91	Jfol	C	R	Sm			40	6 joints
DC-13	**11.91**	**13.49**	*39-1*	*44-3*	97	85	5			11.99	Jfol	C	I	Sm			40	
										12.22	J	C	I	Rug			90	
										12.55 - 13.49	Jfol	C	R	Sm			40	3 joints
DC-14	**13.49**	**15.01**	*44-3*	*49-3*	100	91	5			14.15 - 14.20	Jfol	C	R	Sm			40	2 joints
										14.25	J	C	R	Sm			60	
										14.25 - 15.01	Jfol	C	R	Sm			40	2 joints

* angle from borehole axis (m)

lig. lightly **s.** some

prob. probably **tr.** traces of

X fault striation **Sli.** slikenside surface

Covered with :

Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k

G: graphite **H:** hematite **I:** Iron oxyde **K:** chlorite

M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :

wt: whitish **bg:** beige **w:** white **br:** brown

g: grey **y:** yellow **b:** black **p:** pink **o:** orange

r: red **gr:** green

Nr => non representative

Ji => joint possibly induced by drilling

C/Op => closed / open

R / I => reguar / irregular

Jfol => foliation joint

L => lithologic contat

Rug / Sm => rugged / smoth

J => joint

Terratech

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 1)
Location	Levis / Beaumont
File No	T-1050-A
Contrat	603333-RABA

Length in bedrock (m)	12.93
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	**W-006-04**
Page	1 of 1
Date of desc.	31-Oct-04
Described by :	C. Boucher, Geol. in training.
	Alain Blanchette, Geol.

Depth (m)	**Dip**	**Strike**

Run No.	**Length (m) from**	**to**	***Length (ft-in) From***	***to***	**Recovery (%)**	**RQD (%)**	**Number of joints**	**Return of water (%)**	**Color**	**DESCRIPTION Length (m)**	**Type**	**Details**			**Covered with :**	**Color**	**Angle***	**Remarks**
DC-3	**0.99**	**1.73**	*3-3*	*5-8*	98	0	8			0.99 - 1.47	Jfol	C	R	Sm	I	br	45	7 joints
										1.57	J	C	I	Rug	I	br	10	
DC-4	**1.73**	**3.28**	*5-8*	*10-9*	100	15	25			1.73 - 3.28	Jfol	C	R	Sm			40 - 50	25 joints
DC-5	**3.28**	**4.72**	*10-9*	*15-6*	100	18	13			3.30	Jfol	C	R	Sm			45	
										3.33	Jfol	Op	R	Sm	silt	g	45	
										3.40	J	Op	I	Rug			80	
										3.48	Jfol	C	R	Sm			45	
										3.48 - 4.42	Jfol	C	R	Sm			45	8 joints
										4.47	J	Op	I	Rug	silt	br	90	
										4.57 - 4.72	fractured rock							
DC-6	**4.72**	**5.03**	*15-6*	*16-6*	100	0				4.72 - 5.03	fractured rock							
DC-7	**5.03**	**6.25**	*16-6*	*20-6*	100	27	6			5.21 - 5.31	Jfol	C	R	Sm			45	2 joints
										5.31 - 5.92	fractured rock							
										5.92 - 6.25	Jfol	C	R	Sm			45	3 joints
DC-8	**6.25**	**7.82**	*20-6*	*25-8*	100	100	4			6.53 - 6.73	Jfol	C	R	Sm			50	2 joints
										7.39 - 7.54	J	Op	I	Rug			60	2 joints
DC-9	**7.82**	**9.35**	*25-8*	*30-8*	100	92	5			7.82 - 9.35	Jfol	C	R	Sm			45	5 joints
DC-10	**9.35**	**10.87**	*30-8*	*35-8*	100	88	5			9.40	J	C	I	Rug			60	
										9.63 - 10.87	Jfol	C	R	Sm			50	4 joints
DC-11	**10.87**	**12.40**	*35-8*	*40-8*	100	100	3			10.87 - 12.40	Jfol	C	R	Sm			50	3 joints
DC-12	**12.40**	**13.92**	*40-8*	*45-8*	100	33				12.45 - 12.83	Jfol	C	R	Sm			50	2 joints
										13.23 - 13.92	fractured rock along calcite veinlet							

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I**: Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint

Terratech

STRUCTURAL DESCRIPTION OF BEDROCK

Project	Rabaska (Phase 1)
Location	Levis / Beaumont
File No	T-1050-A
Contrat	603333-RABA

Length in bedrock (m)	13.56
Core barrel size	NQ3
Dip	90°
Strike	N/A

Borehole No	**W-008-04**
Page	1 of 1
Date of desc.	31-Oct-04
Described by :	C. Boucher, Geol. in training.
	Alain Blanchette, Geol.

Depth (m)	**Dip**	**Strike**

Run	Length (m)		*Length (ft-in)*		Recovery	RQD	Number	Return of water		DESCRIPTION								
No.	**from**	**to**	***From***	***to***	**(%)**	**(%)**	**of joints**	**(%)**	**Color**	**Length (m)**	**Type**	**Details**			**Covered with :**	**Color**	**Angle***	**Remarks**
DC-3	**1.50**	**2.90**	*4-11*	*9-6*	49	0				1.50 - 2.90	fractured and oxidized rock							
DC-4	**2.90**	**3.20**	*9-6*	*10-6*	100	0				2.90 -3.20	fractured rock							
DC-5	**3.20**	**4.17**	*10-6*	*13-8*	100	20	11			3.20 - 4.17	Jfol	C	R	Sm			30	11 joints
DC-6	**4.17**	**4.72**	*13-8*	*15-6*	100	0				4.17 - 4.72	fractured rock							
DC-7	**4.72**	**5.99**	*15-6*	*19-8*	100	53	10			4.72 - 5.99	Jfol	C	R	Sm			30	10 joints
DC-8	**5.99**	**7.29**	*19-8*	*23-11*	100	78	6			5.99 - 7.29	Jfol	C	R	Sm			35	6 joints
DC-9	**7.29**	**8.74**	*23-11*	*28-8*	100	61	7			7.32 - 7.37	J	C	R	Sm	tr. Ca	w	80	2 joints
										7.47	J	C	R	Sm	tr. Ca	w	40	
										7.47 - 8.53	Jfol	C	R	Sm			35	4 joints
										8.53 - 8.74	rock fragments							
DC-10	**8.74**	**9.68**	*28-8*	*31-9*	100	73	3			8.84 - 8.99	Jfol	C	R	Sm			35	2 joints
										9.45	J	C	R	Sm			40	
DC-11	**9.68**	**10.34**	*31-9*	*33-11*	100	0				9.68 - 10.34	fractured rock							
DC-12	**10.34**	**10.77**	*33-11*	*35-4*	98	41	1			10.52	J	C	I	Rug			20	
DC-13	**10.77**	**12.24**	*35-4*	*40-2*	100	62	3			10.92	J	C	R	Sm			30	
										11.05 - 11.84	Jfol	C	R	Sm			35	2 joints
										11.94 - 12.24	shaly and fractured rock						35	
DC-14	**12.24**	**13.51**	*40-2*	*44-4*	92	65	5			12.45 - 13.11	Jfol	C	R	Sm			35	4 joints
										13.39	J	C	R	Sm			20	
DC-15	**13.51**	**15.06**	*44-4*	*49-5*	100	90	2			13.51 - 15.06	Jfol	C	R	Sm			35	2 joints

*	angle from borehole axis (m)		
lig.	lightly	**s.**	some
prob.	probably	**tr.**	traces of
X	fault striation	**Sli.**	slikenside surface

Covered with :
Cl: clay **B:** biotite **Ca:** Calcite **E:** epidote **F:** feldspath k
G: graphite **H:** hematite **I**: Iron oxyde **K:** chlorite
M: silt **P:** pyrite **Q:** quartz **Ex:** exsudation

Color :
wt: whitish **bg:** beige **w:** white **br:** brown
g: grey **y:** yellow **b:** black **p:** pink **o:** orange
r: red **gr:** green

Nr	=> non representative	Jfol	=> foliation joint
Ji	=> joint possibly induced by drilling	L	=> lithologic contat
C/Op	=> closed / open	Rug / Sm	=> rugged / smoth
R / I	=> reguar / irregular	J	=> joint