



DF01. View east/upslope at alluvial fan with debris flow deposition zone (gray) and avalanche path.

Hazard ID #:	DF01
Hazard Type:	debris_flow
HIN:	225
Rating:	A
2012 SEIS Alignment Location:	1495
Frequency (yrs):	1-5
Predictability:	moderate
Material Volume (CY):	100-1000
Clast Size (ft):	1-2
Source Elev. (ft):	>1000
Centerline Slope:	fan
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	500+
Vegetation:	denuded
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1492+00
2012 SEIS Alignment North Margin:	1498+00
Photo #:	4098, 4099, 5146




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DF01. View south/down alignment at debris flow deposition zone at beach. Survey lath represents previous IRP 2006 alignment.

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DF02. View east/upslope at debris flow channel and avalanche path.

Hazard ID #:	DF02
Hazard Type:	debris_flow
HIN:	129
Rating:	A
2012 SEIS Alignment Location:	1514
Frequency (yrs):	1-5
Predictability:	moderate
Material Volume (CY):	<10
Clast Size (ft):	0-1
Source Elev. (ft):	2000-3000
Centerline Slope:	fan
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	50-200
Vegetation:	disturbed
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1514+00
2012 SEIS Alignment North Margin:	1514+70
Photo #:	1515, 2036, 5865



DF02. View east/upslope up debris flow channel incised into overburden.

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DF03. View east/upslope at debris flow channel.

Hazard ID #:	DF03
Hazard Type:	debris_flow
HIN:	183
Rating:	A
2012 SEIS Alignment Location:	1517
Frequency (yrs):	0-1
Predictability:	moderate
Material Volume (CY):	<10
Clast Size (ft):	0-1
Source Elev. (ft):	2000-3000
Centerline Slope:	fan
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	50-200
Vegetation:	disturbed
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1516+70
2012 SEIS Alignment North Margin:	1517+70
Photo #:	3893, 5148, 5865, 6256



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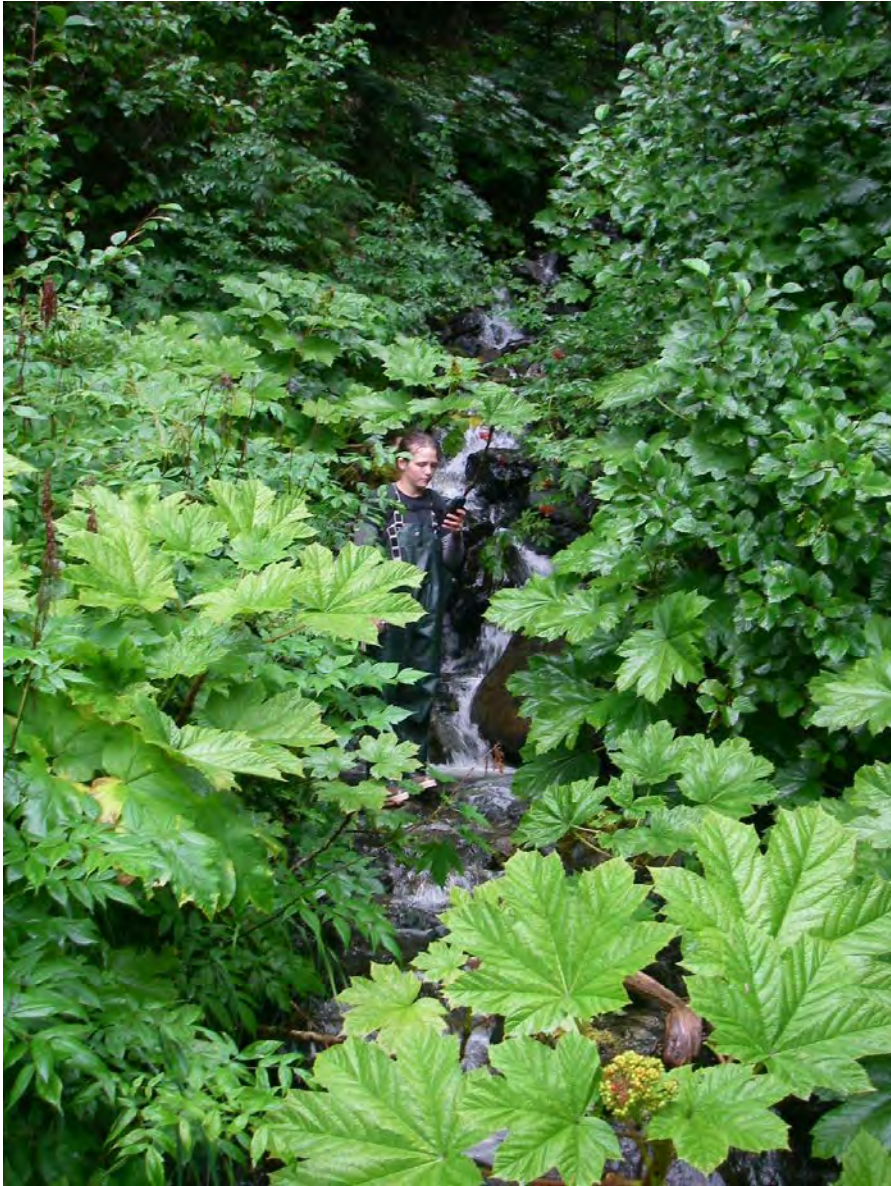
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DF03. View east/upslope at debris flow channel, deposition zone, and fan.

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DF03. View east/upslope up debris flow channel.

	CADD	ECC	TITLE GEOLOGIC HAZARD SUMMARY ARRANGED BY 2012 SEIS STATIONING LYNN CANAL HIGHWAY PHASE 2 2012 SEIS ALIGNMENT HAZARD REVISIONS		
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RS01. View east/upslope at 2001 rockslide and avalanche path.


Hazard ID #:	RS01
Hazard Type:	rock_slide
HIN:	219
Rating:	A
2012 SEIS Alignment Location:	1522
Frequency (yrs):	unknown(>25?)
Predictability:	unpredictable
Material Volume (CY):	100-1000
Clast Size (ft):	4+
Source Elev. (ft):	>1000
Centerline Slope:	open_bedrock_slope
Alignment Location:	deposition_zone
Impact Alignment:	no
Alignment Exposure (ft):	200-500
Vegetation:	denuded
Deciduous Trees:	no
2012 SEIS Alignment South Margin:	1520+70
2012 SEIS Alignment North Margin:	1524+00
Photo #:	4123, 4124, 4126, 5148, 5865



RS01. View east/upslope of area directly under rockslide. Some debris approaches the 2012 SEIS alignment which is located just east/upslope of the beach.




RS01. View east/upslope of 40 ft diameter boulder at bottom of rockslide and avalanche path.

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RS01. View east/upslope of fresh rockslide mega-boulder at southwest (downslope and down alignment) corner of rockslide and avalanche path.

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RF01. View east/upslope at rockfall hazard area.

Hazard ID #:	RF01
Hazard Type:	rockfall
HIN:	147
Rating:	C
2012 SEIS Alignment Location:	1550
Frequency (yrs):	1-5
Predictability:	unpredictable
Material Volume (CY):	<10
Clast Size (ft):	3-4
Source Elev. (ft):	100-500
Centerline Slope:	open_soil_slope
Alignment Location:	below_deposition_zone
Impact Alignment:	no
Alignment Exposure (ft):	200-500
Vegetation:	disturbed
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1548+00
2012 SEIS Alignment North Margin:	1553+00
Photo #:	4212, 4214, 5148

	CADD	ECC	TITLE GEOLOGIC HAZARD SUMMARY ARRANGED BY 2012 SEIS STATIONING LYNN CANAL HIGHWAY PHASE 2 2012 SEIS ALIGNMENT HAZARD REVISIONS
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RF01. Basalt cliff that is the origin of rockfall hazard.

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RF02. View east/upslope at rockfall hazard area.

Hazard ID #:	RF02
Hazard Type:	rockfall
HIN:	111
Rating:	C
2012 SEIS Alignment Location:	1550
Frequency (yrs):	5-25
Predictability:	unpredictable
Material Volume (CY):	<10
Clast Size (ft):	0-1
Source Elev. (ft):	100-500
Centerline Slope:	open_soil_slope
Alignment Location:	below_deposition_zone
Impact Alignment:	no
Alignment Exposure (ft):	50-200
Vegetation:	disturbed
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1547+40
2012 SEIS Alignment North Margin:	1552+70
Photo #:	3049, 5149



RF02. View west/downslope at rockfall deposition.

	CADD	ECC	TITLE GEOLOGIC HAZARD SUMMARY ARRANGED BY 2012 SEIS STATIONING LYNN CANAL HIGHWAY PHASE 2 2012 SEIS ALIGNMENT HAZARD REVISIONS		
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RF03. View east/upslope at rockfall area.



RF03. View east/upslope at rockfall area.

Hazard ID #:	RF03
Hazard Type:	rockfall
HIN:	129
Rating:	B
2012 SEIS Alignment Location:	1586
Frequency (yrs):	5-25
Predictability:	unpredictable
Material Volume (CY):	<10
Clast Size (ft):	4+
Source Elev. (ft):	100-500
Centerline Slope:	single_channel
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	200-500
Vegetation:	disturbed
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1584+70
2012 SEIS Alignment North Margin:	1587+40
Photo #:	4259, 5873



RF04. View east/upslope at rockfall area.



RF04. Base of vertical basalt cliff creating rockfall hazard.

Hazard ID #:	RF04
Hazard Type:	rockfall
HIN:	183
Rating:	B
2012 SEIS Alignment Location:	1609
Frequency (yrs):	unknown (5-25?)
Predictability:	unpredictable
Material Volume (CY):	<10
Clast Size (ft):	4+
Source Elev. (ft):	100-500
Centerline Slope:	open_soil_slope
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	500+
Vegetation:	disturbed
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1606+20
2012 SEIS Alignment North Margin:	1611+60
Photo #:	4245, 4246, 4247, 4249



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DF04. View east/upslope at debris flow channel, incision visible as gully.

Hazard ID #:	DF04
Hazard Type:	debris_flow
HIN:	117
Rating:	B
2012 SEIS Alignment Location:	1670
Frequency (yrs):	5-25
Predictability:	moderate
Material Volume (CY):	10-100
Clast Size (ft):	0-1
Source Elev. (ft):	1000-2000
Centerline Slope:	fan
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	50-200
Vegetation:	disturbed
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1669+40
2012 SEIS Alignment North Margin:	1671+10
Photo #:	3875




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DF04. Debris flow deposit.

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DF05. Debris flow channel visible as incised gully through trees in lower part of photo, left of center.

Hazard ID #:	DF05
Hazard Type:	debris_flow
HIN:	129
Rating:	A
2012 SEIS Alignment Location:	1675
Frequency (yrs):	1-5
Predictability:	high
Material Volume (CY):	10-100
Clast Size (ft):	0-1
Source Elev. (ft):	1000-2000
Centerline Slope:	single_channel
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	50-200
Vegetation:	denuded
Deciduous Trees:	no
2012 SEIS Alignment South Margin:	1674+20
2012 SEIS Alignment North Margin:	1675+40
Photo #:	6203, 6204




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DF05. View north/up alignment along debris flow incision and levee.

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DF06. View east/upslope at debris flow channel and avalanche path.

Hazard ID #:	DF06
Hazard Type:	debris_flow
HIN:	183
Rating:	A
2012 SEIS Alignment Location:	1678
Frequency (yrs):	0-1
Predictability:	high
Material Volume (CY):	10-100
Clast Size (ft):	0-1
Source Elev. (ft):	2000-3000
Centerline Slope:	fan
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	50-200
Vegetation:	disturbed
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1677+60
2012 SEIS Alignment North Margin:	1678+80
Photo #:	3876




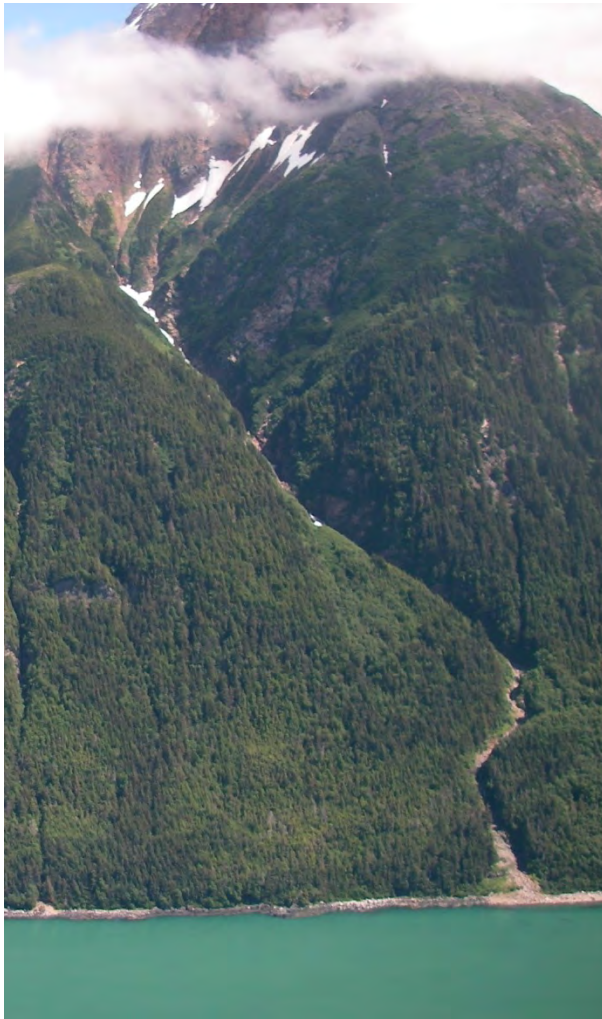
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DF06. View southeast (upslope and down alignment) across debris flow deposition zone at tide line.

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DF07. View east/upslope of debris flow channel and avalanche path.

Hazard ID #:	DF07
Hazard Type:	debris_flow
HIN:	153
Rating:	A
2012 SEIS Alignment Location:	1704
Frequency (yrs):	1-5
Predictability:	moderate
Material Volume (CY):	100-1000
Clast Size (ft):	1-2
Source Elev. (ft):	>1000
Centerline Slope:	multi_channel
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	50-200
Vegetation:	denuded
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1703+30
2012 SEIS Alignment North Margin:	1704+40
Photo #:	4366, 5155

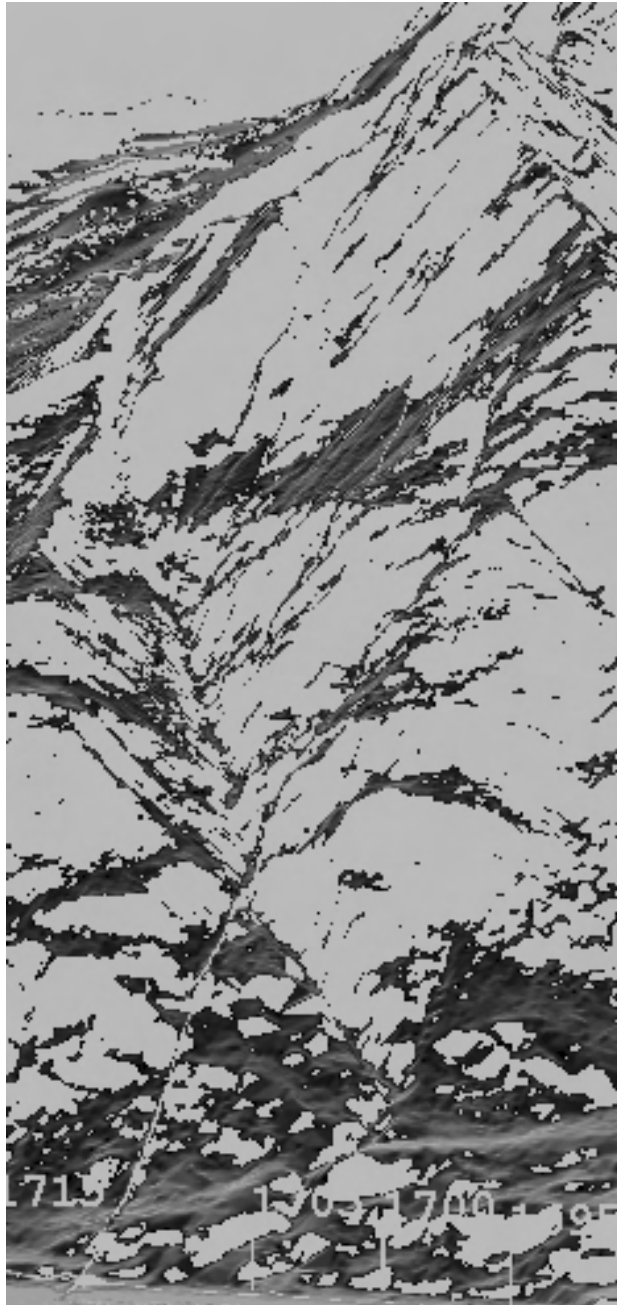


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DF07. Path and terminus of debris flow channel.



DF07. Bare earth LIDAR image of debris flow channel and avalanche path. Station labels represent previous IRP 2006 alignment.

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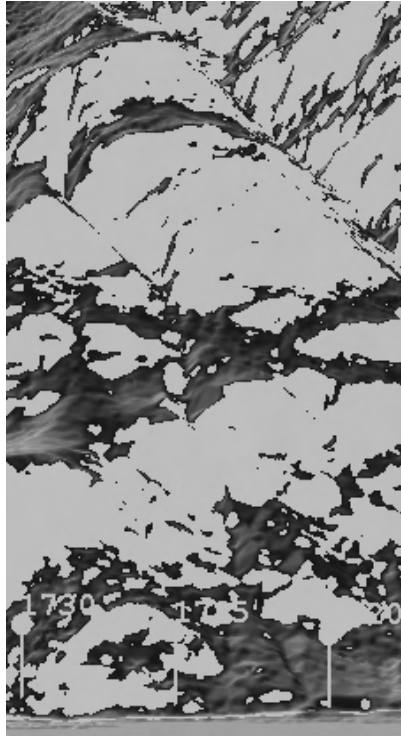
DF08. View east/upslope at debris flow channel and avalanche path.

Hazard ID #:	DF08
Hazard Type:	debris_flow
HIN:	129
Rating:	A
2012 SEIS Alignment Location:	1721
Frequency (yrs):	1-5
Predictability:	high
Material Volume (CY):	10-100
Clast Size (ft):	1-2
Source Elev. (ft):	>1000
Centerline Slope:	fan
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	50-200
Vegetation:	denuded
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1720+30
2012 SEIS Alignment North Margin:	1721+30
Photo #:	1126, 5156



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DF08. Bare earth LIDAR image of debris flow path. Station labels represent previous IRP 2006 alignment.



DF08. View east/upslope at debris flow chute and avalanche path.

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DF08. Debris flow deposition fan and avalanche path.



RF06. View east/upslope at rockfall area.

Hazard ID #:	RF06
Hazard Type:	rockfall
HIN:	201
Rating:	A
2012 SEIS Alignment Location:	1731
Frequency (yrs):	0-1
Predictability:	unpredictable
Material Volume (CY):	<10
Clast Size (ft):	3-4
Source Elev. (ft):	500-1000
Centerline Slope:	open_bedrock_slope
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	50-200
Vegetation:	disturbed
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1730+20
2012 SEIS Alignment North Margin:	1731+10
Photo #:	4674, 6206



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RF06. View east/upslope at rockfall zone.



RF06. View west/downslope at rockfall.



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DF09. View east/upslope at debris flow channel and avalanche path.

Hazard ID #:	DF09
Hazard Type:	debris_flow
HIN:	153
Rating:	A
2012 SEIS Alignment Location:	1734
Frequency (yrs):	unknown (1-5?)
Predictability:	low
Material Volume (CY):	10-100
Clast Size (ft):	1-2
Source Elev. (ft):	>1000
Centerline Slope:	single_channel
Alignment Location:	path
Impact Alignment:	yes
Alignment Exposure (ft):	50-200
Vegetation:	disturbed
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1732+90
2012 SEIS Alignment North Margin:	1734+90
Photo #:	3307



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DF09. View east/upslope at debris flow path and avalanche path through dense deciduous trees.



DF09. Debris flow and talus cone at base of debris flow and avalanche path.

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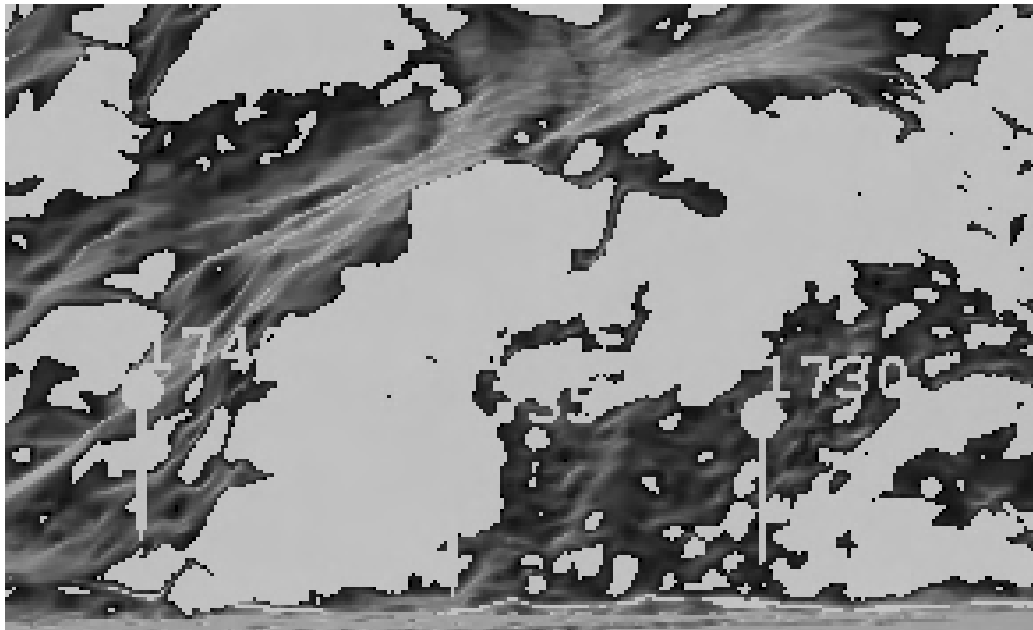


RF07. View east/upslope at rockfall hazard area.

Hazard ID #:	RF07
Hazard Type:	rockfall
HIN:	279
Rating:	A
2012 SEIS Alignment Location:	1738
Frequency (yrs):	0-1
Predictability:	unpredictable
Material Volume (CY):	10-100
Clast Size (ft):	4+
Source Elev. (ft):	500-1000
Centerline Slope:	open_bedrock_slope
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	>1000
Vegetation:	disturbed
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1725+20
2012 SEIS Alignment North Margin:	1740+20
Photo #:	4674



RF07. View east/upslope at 500 ft high gneiss cliffs with strong jointing and rockfall.



RF07. Bare earth LIDAR image of rockfall hazard area. Station labels represent previous IRP 2006 alignment.

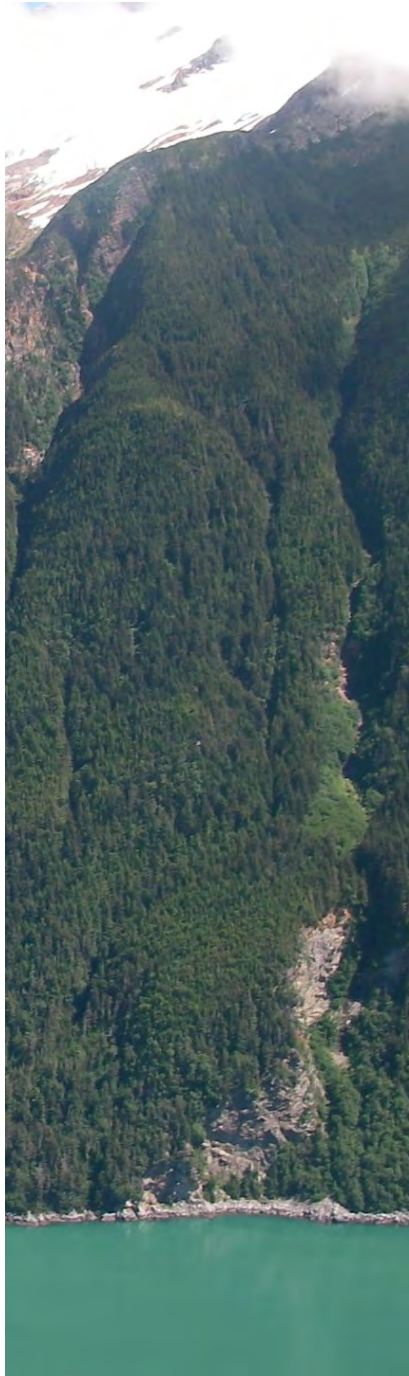


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DF10. View east/upslope at debris flow channel.


Hazard ID #:	DF10
Hazard Type:	debris_flow
HIN:	129
Rating:	A
2012 SEIS Alignment Location:	1743
Frequency (yrs):	1-5
Predictability:	high
Material Volume (CY):	10-100
Clast Size (ft):	0-1
Source Elev. (ft):	>1000
Centerline Slope:	multi_channel
Alignment Location:	path
Impact Alignment:	yes
Alignment Exposure (ft):	50-200
Vegetation:	denuded
Deciduous Trees:	no
2012 SEIS Alignment South Margin:	1742+80
2012 SEIS Alignment North Margin:	1743+90
Photo #:	4745-4748



DF10. View southwest (downslope and down alignment) at multichannel debris flow deposits.



DF10. View east/upslope at debris flow terminus and deposition zone.

	CADD	ECC	TITLE GEOLOGIC HAZARD SUMMARY ARRANGED BY 2012 SEIS STATIONING LYNN CANAL HIGHWAY PHASE 2 2012 SEIS ALIGNMENT HAZARD REVISIONS
	DATE	9/10/12	
CHECK	RGD		
FILE No.	GEO_HAZ_SUMM.PPT	DATE	9/24/12
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DF11. View east/upslope at debris flow channel and avalanche path.


Hazard ID #:	DF11
Hazard Type:	debris_flow
HIN:	129
Rating:	A
2012 SEIS Alignment Location:	1748
Frequency (yrs):	1-5
Predictability:	high
Material Volume (CY):	10-100
Clast Size (ft):	2-3
Source Elev. (ft):	>1000
Centerline Slope:	fan
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	50-200
Vegetation:	denuded
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1747+40
2012 SEIS Alignment North Margin:	1748+50
Photo #:	4741, 4742, 5157

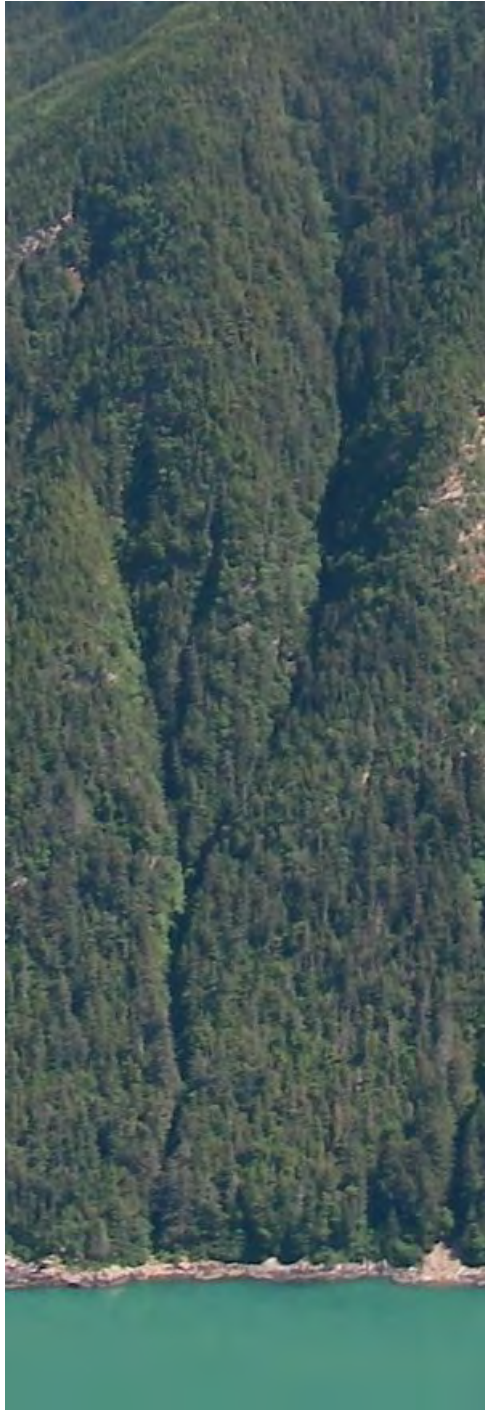


DF11. View east/upslope at debris flow deposition zone.



DF11. View east/upslope at debris flow channel and avalanche path.

	CADD	ECC	TITLE GEOLOGIC HAZARD SUMMARY ARRANGED BY 2012 SEIS STATIONING LYNN CANAL HIGHWAY PHASE 2 2012 SEIS ALIGNMENT HAZARD REVISIONS
	DATE	9/10/12	
CHECK	RGD		
FILE No.	GEO_HAZ_SUMM.PPT	DATE	9/24/12
PROJECT No.	113-95756	REV	1
HDR / 2012 SEIS JUNEAU ACCESS / AK			G-38



DF12. View east/upslope at debris flow channel and avalanche path.

Hazard ID #:	DF12
Hazard Type:	debris_flow
HIN:	111
Rating:	A
2012 SEIS Alignment Location:	1752
Frequency (yrs):	5-25
Predictability:	high
Material Volume (CY):	10-100
Clast Size (ft):	2-3
Source Elev. (ft):	>1000
Centerline Slope:	fan
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	50-200
Vegetation:	disturbed
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1752+00
2012 SEIS Alignment North Margin:	1752+90
Photo #:	4738, 4739, 5157



CADD	ECC
DATE	9/10/12
CHECK	RGD
DATE	9/24/12
REV	1

TITLE

**GEOLOGIC HAZARD SUMMARY
ARRANGED BY 2012 SEIS STATIONING
LYNN CANAL HIGHWAY PHASE 2
2012 SEIS ALIGNMENT HAZARD REVISIONS**


FILE No.	GEO_HAZ_SUMM.PPT
PROJECT No.	113-95756

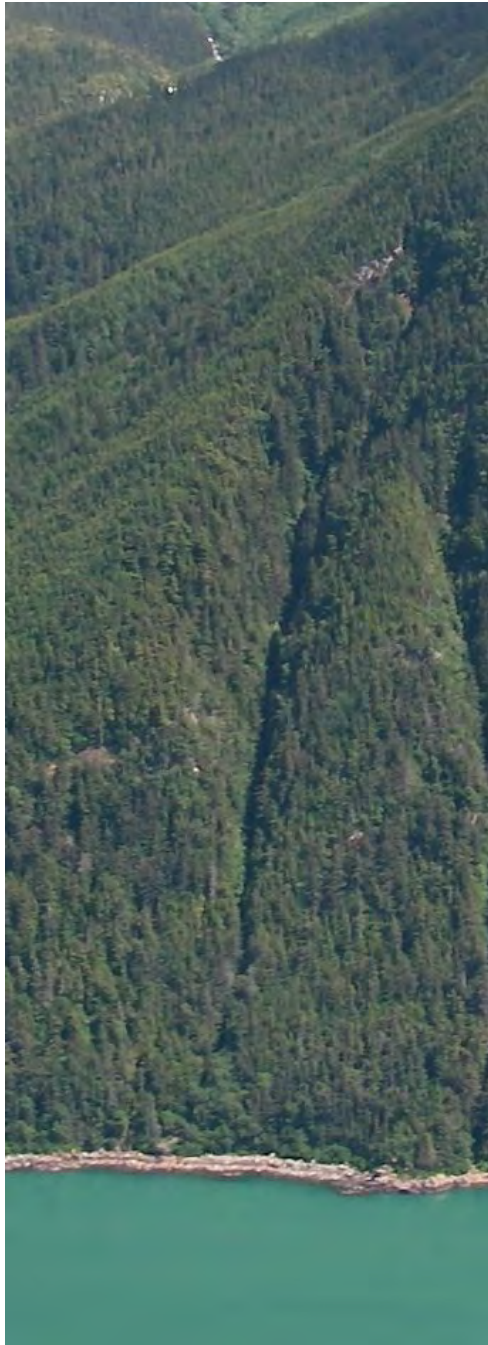
HDR / 2012 SEIS JUNEAU ACCESS / AK

G-39



DF12. View east/upslope at debris flow channel and avalanche path.

	CADD	ECC	GEOLOGIC HAZARD SUMMARY ARRANGED BY 2012 SEIS STATIONING LYNN CANAL HIGHWAY PHASE 2 2012 SEIS ALIGNMENT HAZARD REVISIONS		
	DATE	9/10/12			
	CHECK	RGD			
	REV	1			
FILE No.	GEO_HAZ_SUMM.PPT	DATE	9/24/12	HDR / 2012 SEIS JUNEAU ACCESS / AK	G-40
PROJECT No.	113-95756	REV	1		




DF13. View east/upslope at debris flow channel and avalanche path.

Hazard ID #:	DF13
Hazard Type:	debris_flow
HIN:	129
Rating:	A
2012 SEIS Alignment Location:	1757
Frequency (yrs):	1-5
Predictability:	high
Material Volume (CY):	10-100
Clast Size (ft):	2-3
Source Elev. (ft):	>1000
Centerline Slope:	fan
Alignment Location:	deposition_zone
Impact Alignment:	yes
Alignment Exposure (ft):	50-200
Vegetation:	denuded
Deciduous Trees:	yes
2012 SEIS Alignment South Margin:	1757+00
2012 SEIS Alignment North Margin:	1757+90
Photo #:	4736, 4737, 5157



DF13. View east/upslope at debris flow channel and avalanche path.

	CADD	ECC	TITLE GEOLOGIC HAZARD SUMMARY ARRANGED BY 2012 SEIS STATIONING LYNN CANAL HIGHWAY PHASE 2 2012 SEIS ALIGNMENT HAZARD REVISIONS		
	DATE	9/10/12			
	CHECK	RGD			
FILE No.	GEO_HAZ_SUMM.PPT	DATE	9/24/12	HDR / 2012 SEIS JUNEAU ACCESS / AK	G-42
PROJECT No.	113-95756	REV	1		