



**Snow Sampling Field Sheet**

<b>Area:</b> 8000	<b>No:</b> ENVI-177-0312
<b>Effective Date:</b> 26-MAR-2012	<b>Revision:</b> R8
<b>Task:</b> Snow Sampling Field Sheet	<b>By:</b> Dianne Dul
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**GENERAL**

**LOCATION NAME:** SS3-7      **DATE (yyyy-mm-dd):** 2019-04-07      **TIME (24:00):** 12:13

**SAMPLED BY:** SS2 LC      **TYPE OF SAMPLE:** Dust  Water Quality  QAQC:

**GPS COORDINATES (UTM):** 0536 344 E 715 1369 N (Zone) 12 NAD 83

**DESCRIPTION:** Distance to Diavik \_\_\_\_\_ km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

**Air Temp:** -12 °C      **Wind Direction:** SE      **Wind Speed (knots):** 12

**Precipitation:** Rain / Mist / Snow / Ice / None      **Cloud Cover:** 0% / 10% / 25% / 50% / 75% / 100%

**Dust in area:** Visible  Not Visible       **Snow Condition:** Crystallized  Packed  Wet  Dry

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)	
Dust Cores	1	29	24	45	39	6	Y N		
	2	31	25	45	39	6	Y N		12
	3	33	31	45	39	6	Y N		18
	4	33	30	45	39	6	Y N		24
	5	33	33	47	39	8	N	Dust (Min. of 3 cores - Total Water Content SWE => 25)	32
Water Quality Cores	1	33	33	48	39	9	Y N		
	2	34	34	45	39	6	Y N		15
	3	34	32	46	39	7	Y N		23
	4	33	29	45	39	6	Y N		29
	5	33	22	46	39	7	Y N		36
	6	34	34	46	39	7	Y N		44
	7	32	30	45	39	6	Y N		50
	8	31	30	46	39	7	Y N		57
	9	34	31	46	39	7	Y N		64
	10	34	31	46	39	7	Y N		71
	11	34	33	48	39	9	Y N		80
	12	34	32	47	39	8	Y N		88
<b>Water Quality (Min. of 3 cores - Total Water Content SWE =&gt; 100)</b>									

11    1    33    28    45    39    6    Y N    94

\*\*\* **Water Content** <sub>SWE</sub> = **Wt. of Tube & Core** <sub>SWE</sub> - **Wt. of Empty Tube** <sub>SWE</sub> \*\*\*

12    33    32    46    39    7    Y N    101

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### Dust Sample Filters

Total Volume of Melted Snow : 1060 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	115.6	235.1	119.5	
2	116.1	267.7	151.6	
3				
4				
<b>Totals</b>	231.7	502.8	271.1	

### Water Quality Bottles

1535 + 1580  
Total Volume of Melted Snow : \_\_\_\_\_ (mL)  
3115

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments <u>DI Batch # for QAQC</u> , Location preserved if not in field, label changes
					GW			
1	Metals Total	60 mL Falcon Tube	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

*perchlorate*

(Y)

✓

Additional Comments

## Snow Sampling Field Sheet

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**GENERAL**

LOCATION NAME: 553-8      DATE (yyyy-mm-dd): 2014-04-07      TIME (24:00): 1103

SAMPLED BY: LC 552      TYPE OF SAMPLE: Dust  Water Quality  QAQC: N/A

GPS COORDINATES (UTM): 0536672      E 7156824      N (Zone) 12      NAD 83

DESCRIPTION: Distance to Diavik \_\_\_\_\_ km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

Air Temp: -12 °C      Wind Direction: SF      Wind Speed (knots): 12

Precipitation: Rain / Mist / Snow / Ice / None      Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Dust in area: Visible  Not Visible       Snow Condition: Crystallized  Packed  Wet  Dry

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
Dust Cores	1	37.0	36.0	50.0	39.0	11.0	Y (N)	Reweighed cores, original spot close to water road, 20m off
	2	37.0	37.0	51.0	39.0	12.0	Y (N)	
	3	38.0	36.0	50.0	39.0	11.0	Y (N)	
	4						Y N	
<b>Dust (Min. of 3 cores – Total Water Content, SWE =&gt; 25)</b>								
Water Quality Cores	1	40.0	39.0	51.0	39.0	12.0	Y (N)	Reweighed cores
	2	40.0	34.0	51.0	39.0	12.0	Y (N)	
	3	40.0	36.0	51.0	39.0	12.0	Y (N)	
	4	42.0	42.0	53.0	39.0	14.0	Y (N)	Reweighed cores
	5	42.0	37.0	52.0	39.0	13.0	Y (N)	
	6	42.0	41.0	52.0	39.0	13.0	Y (N)	
	7	41.0	41.0	53.0	39.0	14.0	Y (N)	
	8	43.0	42.0	53.0	39.0	14.0	Y (N)	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
<b>Water Quality (Min. of 3 cores – Total Water Content SWE =&gt; 100)</b>								

\*\*\* Water Content <sub>SWE</sub> = Wt. of Tube & Core <sub>SWE</sub> – Wt. of Empty Tube <sub>SWE</sub> \*\*\*



**Snow Sampling Field Sheet**

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**Dust Sample Filters**

Total Volume of Melted Snow : 1080. (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	108.1	147.8	39.7	
2	116.3	187.6	71.3	
3				
4				
<b>Totals</b>	224.4	335.4	111.0	

**Water Quality Bottles**

Total Volume of Melted Snow : <sup>1700+1535</sup>3235 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
					GW			
1	Metals Total	60 mL Falcon Tube	Y	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	Y	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	Y	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	Y	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	Y	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	Y	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

*perchlorate* \*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank  
(Y) ✓

Additional Comments

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**GENERAL**

**LOCATION NAME:** 554-1-4      **DATE (yyyy-mm-dd):** 2019-04-06      **TIME (24:00):** 11:12

**SAMPLED BY:** MNLC 552      **TYPE OF SAMPLE:** Dust  Water Quality  QAQC: DUP

**GPS COORDINATES (UTM):** 0581488 E 7152212 N (Zone) 12 NAD 83

**DESCRIPTION:** Distance to Diavik \_\_\_\_\_ km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

**Air Temp:** -22 °C      **Wind Direction:** E      **Wind Speed (knots):** 6

**Precipitation:** Rain / Mist / Snow / Ice / None       **Cloud Cover:** 0%  10% / 25% / 50% / 75% / 100%

**Dust in area:** Visible  Not Visible       **Snow Condition:** Crystallized  Packed  Wet  Dry

Dust Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
	1	40.0	36.0	50.0	39.0	11.0	Y <input checked="" type="checkbox"/> N	Reweighed, coarse crystals
2	45.0	39.0	51.0	39.0	12.0	Y <input checked="" type="checkbox"/> N		
3	45.0	38.0	50.0	39.0	11.0	Y <input checked="" type="checkbox"/> N		
4						Y N		

**Dust (Min. of 3 cores – Total Water Content SWE => 25)**

Water Quality Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments
	1							Y N
2							Y N	
3							Y N	
4							Y N	
5							Y N	
6							Y N	
7							Y N	
8							Y N	
9							Y N	
10							Y N	
11							Y N	
12							Y N	

**Water Quality (Min. of 3 cores – Total Water Content SWE => 100)**

\*\*\* **Water Content** <sub>SWE</sub> = **Wt. of Tube & Core** <sub>SWE</sub> – **Wt. of Empty Tube** <sub>SWE</sub> \*\*\*

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**Dust Sample Filters**

Total Volume of Melted Snow : 1125 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	116.5	164.9	48.4	
2	115.2	<del>160.3</del>	45.1	
3				
4				
<b>Totals</b>	231.7	325.2	93.5	

**Water Quality Bottles**

Total Volume of Melted Snow : \_\_\_\_\_ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments <u>DI Batch # for QAQC.</u> Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	Y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	Y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

Additional Comments

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**GENERAL**

LOCATION NAME: 554-1-5      DATE (yyyy-mm-dd): 2014-04-06      TIME (24:00): 1122

SAMPLED BY: MN552LC      TYPE OF SAMPLE: Dust  Water Quality  QAQC: DUP

GPS COORDINATES (UTM): 0531488      E 7152812      N (Zone) 12      NAD 83

DESCRIPTION: Distance to Diavik \_\_\_\_\_ km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

Air Temp: -22 °C      Wind Direction: E      Wind Speed (knots): 6

Precipitation: Rain / Mist / Snow / Ice / (None)       Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Dust in area: Visible  Not Visible       Snow Condition: Crystallized  Packed  Wet  Dry

Dust Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
	1	40	38	50.0	39.0	11.0	Y <u>(N)</u>	Reweighed, air packets in core
2	35	25	45.0	39.0	6.0	Y <u>(N)</u>		
3	35	23	46.0	39.0	7.0	Y <u>(N)</u>	Veg in sample	
4	40	18	44.0	39.0	5.0	Y <u>(N)</u>		

**Dust (Min. of 3 cores – Total Water Content SWE => 25)**

Water Quality Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments
	1							Y N
2							Y N	
3							Y N	
4							Y N	
5							Y N	
6							Y N	
7							Y N	
8							Y N	
9							Y N	
10							Y N	
11							Y N	
12							Y N	

**Water Quality (Min. of 3 cores – Total Water Content SWE => 100)**

\*\*\* Water Content <sub>SWE</sub> = Wt. of Tube & Core <sub>SWE</sub> – Wt. of Empty Tube <sub>SWE</sub> \*\*\*





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**Dust Sample Filters**

Total Volume of Melted Snow : 980 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	108.4	152.3	43.9	sticks filtered out.
2	115.5	173.6	58.1	
3				
4				
<b>Totals</b>	223.9	325.9	102.0	

**Water Quality Bottles**

Total Volume of Melted Snow : \_\_\_\_\_ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments <u>DI Batch # for QAQC.</u> Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	Y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	Y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

Additional Comments

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**GENERAL**

**LOCATION NAME:** SS4-2      **DATE (yyyy-mm-dd):** 2019-04-06      **TIME (24:00):** 11:39

**SAMPLED BY:** LC 552 MD      **TYPE OF SAMPLE:** Dust  Water Quality  QAQC: —

**GPS COORDINATES (UTM):** 531356 E 7152261 N (Zone) 12 NAD 83

**DESCRIPTION:** Distance to Diavik \_\_\_\_\_ km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

**Air Temp:** -22 °C      **Wind Direction:** E      **Wind Speed (knots):** 6

**Precipitation:** Rain / Mist / Snow / Ice / None      **Cloud Cover:** 0% / 10% / 25% / 50% / 75% / 100%

**Dust in area:** Visible  Not Visible       **Snow Condition:** Crystallized  Packed  Wet  Dry

Dust Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
	1	45	43	49	39.0	10	Y N	
2	45	34	46	39	7	Y N	few flakes & dirt	
3	45	45	50	39	11	Y N		
4						Y N		
<b>Dust (Min. of 3 cores – Total Water Content SWE =&gt; 25)</b>								
Water Quality Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
	5						Y N	
	6						Y N	
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
<b>Water Quality (Min. of 3 cores – Total Water Content SWE =&gt; 100)</b>								

\*\*\* Water Content <sub>SWE</sub> = Wt. of Tube & Core <sub>SWE</sub> – Wt. of Empty Tube <sub>SWE</sub> \*\*\*

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**Dust Sample Filters**

Total Volume of Melted Snow : 935 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	115.2	154.0	38.8	
2	110.3	163.2	52.9	
3				
4				
<b>Totals</b>	225.5	317.2	91.7	

**Water Quality Bottles**

Total Volume of Melted Snow : \_\_\_\_\_ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments <u>DI Batch # for QAQC</u> , Location preserved if not in field, label changes
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1	Metals Total	60 mL Falcon Tube	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	Y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	Y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

Additional Comments

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**GENERAL**

LOCATION NAME: SS4-3      DATE (yyyy-mm-dd): 2012-04-06      TIME (24:00): 12:00

SAMPLED BY: LC 352 MM      TYPE OF SAMPLE: Dust  Water Quality  QAQC: \_\_\_\_\_

GPS COORDINATES (UTM): 531329      E 7152480      N (Zone) 12      NAD 83

DESCRIPTION: Distance to Diavik \_\_\_\_\_ km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

Air Temp: -22 °C      Wind Direction: E      Wind Speed (knots): 6

Precipitation: Rain / Mist / Snow / Ice / None      Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Dust in area: Visible  Not Visible       Snow Condition: Crystallized  Packed  Wet  Dry

Dust Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
	1	<u>49</u>	<u>37</u>	<u>49</u>	<u>39</u>	<u>10</u>	Y N	
2	<u>48</u>	<u>44</u>	<u>50</u>	<u>39</u>	<u>11</u>	Y N	<u>found in bag</u>	
3	<u>42</u>	<u>38</u>	<u>48</u>	<u>39</u>	<u>9</u>	Y N		
4						Y N		

Dust (Min. of 3 cores – Total Water Content SWE => 25)

Water Quality Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments
	1							Y N
2							Y N	
3							Y N	
4							Y N	
5							Y N	
6							Y N	
7							Y N	
8							Y N	
9							Y N	
10							Y N	
11							Y N	
12							Y N	

Water Quality (Min. of 3 cores – Total Water Content SWE => 100)

\*\*\* Water Content <sub>SWE</sub> = Wt. of Tube & Core <sub>SWE</sub> – Wt. of Empty Tube <sub>SWE</sub> \*\*\*

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**Dust Sample Filters**

Total Volume of Melted Snow : 935 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	116.6	199.4	82.8	
2				
3				
4				
<b>Totals</b>	116.6	199.4	82.8	

**Water Quality Bottles**

Total Volume of Melted Snow : \_\_\_\_\_ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments <u>DI Batch # for QAQC</u> , Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	Y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	Y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

Additional Comments

**Snow Sampling Field Sheet**

<b>Area:</b> 8000	<b>No:</b> ENVI-177-0312	
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<b>Task:</b> Snow Sampling Field Sheet	<b>By:</b> Dianne Dul	
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**GENERAL**

LOCATION NAME: SS4-4      DATE (yyyy-mm-dd): 2014-04-06      TIME (24:00): 12140

SAMPLED BY: MN SS2 LC      TYPE OF SAMPLE: Dust  Water Quality  QAQC: —

GPS COORDINATES (UTM): 531 129      E 7153169      N (Zone) 12      NAD 83

DESCRIPTION: Distance to Diavik \_\_\_\_\_ km & Direction N      On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

Air Temp: -22 °C      Wind Direction: E      Wind Speed (knots): 06

Precipitation: Rain / Mist / Snow / Ice / None      Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Dust in area: Visible  Not Visible       Snow Condition: Crystallized  Packed  Wet  Dry

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)		
Dust Cores	1	28	26	46	39	7	Y <u>N</u>			
	2	27	26	46	39	7	Y <u>N</u>			14
	3	27	26	46	39	7	Y <u>N</u>			21
	4	28	27	46	39	7	Y <u>N</u>			28
<b>Dust (Min. of 3 cores – Total Water Content SWE =&gt; 25)</b>										
Water Quality Cores	1	28	26	46	39	7	Y <u>N</u>			
	2	28	26	46	39	7	Y <u>N</u>			14
	3	28	27	46	39	7	Y <u>N</u>			21
	4	30	27	46	39	7	Y <u>N</u>			28
	5	28	24	45	39	6	Y <u>N</u>			32
	6	28	26	46	39	7	Y <u>N</u>			39
	7	30	29	47	39	8	Y <u>N</u>			47
	8	30	28	46	39	7	Y <u>N</u>			54
	9	30	29	46	39	7	Y <u>N</u>			61
	10	30	24	45	39	6	Y <u>N</u>			67
	11	29	24	45	39	6	Y <u>N</u>			63
	12	30	28	46	39	7	Y <u>N</u>			70
<b>Water Quality (Min. of 3 cores – Total Water Content SWE =&gt; 100)</b>										
	13	28	27	47	39	8	N			78

\*\*\* **Water Content**  $SWE = Wt. of Tube \& Core - Wt. of Empty Tube$  \*\*\*

14	30	29	47	39	8	N			186
15	30	25	46	39	7	N			194
16	30	28	47	39	8	N			1102
17									

Snow Sampling Field Sheet			
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### Dust Sample Filters

Total Volume of Melted Snow : 835 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	108.3	150.2	41.9	
2	113.5	130.7	17.2	
3				
4				
<b>Totals</b>	221.8	280.9	59.1	

### Water Quality Bottles

1740 + 1790  
Total Volume of Melted Snow : \_\_\_\_\_ (mL)  
3580

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments <u>DI Batch # for QAQC</u> , Location preserved if not in field, label changes
					GW			
1	Metals Total	60 mL Falcon Tube	Y	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	Y	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	Y	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	Y	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	Y	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	Y	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

*perchlorate*

Additional Comments

Snow Sampling		Id Sheet	
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**GENERAL**

LOCATION NAME: 554-5      DATE (yyyy-mm-dd): 2014-01-06      TIME (24:00): 1322

SAMPLED BY: MN 552 LC      TYPE OF SAMPLE: Dust  Water Quality  QAQC: NA

GPS COORDINATES (UTM): 0531408      E 7154115      N (Zone) 12      NAD 83

DESCRIPTION: Distance to Diavik \_\_\_\_\_ km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

Air Temp: -22 °C      Wind Direction: E      Wind Speed (knots): 6

Precipitation: Rain / Mist / Snow / Ice / None

Dust in area: Visible  Not Visible

Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Snow Condition: Crystallized  Packed  Wet  Dry

Dust Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
	1	36.0	34.0	48.0	39.0	9.0	Y (N)	Reweighed
2	36.0	36.0	49.0	39.0	10.0	Y (N)		
3	34.0	34.0	48.0	39.0	9.0	Y (N)		
4						Y N		

**Dust (Min. of 3 cores – Total Water Content SWE => 25)**

Water Quality Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
	1	34.0	33.0	48.0	39.0	9.0	Y (N)	Reweighed Bag 1
2	33.0	33.0	48.0	39.0	9.0	Y (N)		
3	34.0	34.0	48.0	39.0	9.0	Y (N)		
4	36.0	30.0	48.0	39.0	9.0	Y (N)		
5	36.0	30.0	45.0	39.0	6.0	Y (N)		
6	35.0	34.0	48.0	39.0	9.0	Y (N)		
7	36.0	36.0	49.0	39.0	10.0	Y (N)	Reweighed, Bag 2	
8	36.0	36.0	48.0	39.0	9.0	Y (N)		
9	36.0	36.0	49.0	39.0	10.0	Y (N)		
10	36.0	31.0	48.0	39.0	9.0	Y (N)		
11	36.0	36.0	49.0	39.0	10.0	Y (N)		
12	36.0	36.0	44.0	39.0	10.0	Y (N)		

**Water Quality (Min. of 3 cores – Total Water Content SWE => 100)**

\*\*\* Water Content <sub>SWE</sub> = Wt. of Tube & Core <sub>SWE</sub> – Wt. of Empty Tube <sub>SWE</sub> \*\*\*



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**Dust Sample Filters**

Total Volume of Melted Snow : 880. (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	115.6	166.1	50.5	
2				
3				
4				
<b>Totals</b>	115.6	166.1	50.5	

**Water Quality Bottles**

1905 + 1745  
Total Volume of Melted Snow : 3650. (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
					GW			
1	Metals Total	60 mL Falcon Tube	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

*perchlorate*

\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

Additional Comments

**Snow Sampling Field Sheet**

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**GENERAL**

LOCATION NAME: SS5-1      DATE (yyyy-mm-dd): 2019-04-05      TIME (24:00): 14:58

SAMPLED BY: MN LC SS2      TYPE OF SAMPLE: Dust  Water Quality  QAQC: N/A

GPS COORDINATES (UTM): 533150      E 7148925      N (Zone) 12      NAD 83

DESCRIPTION: Distance to Diavik \_\_\_\_\_ km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

Air Temp: -17 °C      Wind Direction: 320 NW      Wind Speed (knots): 7

Precipitation: Rain / Mist / Snow / Ice / None      Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Dust in area: Visible  Not Visible       Snow Condition: Crystallized  Packed  Wet  Dry

Dust Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
	1	35	30	46	39	7	Y (N)	
2	35	29	48	39	9	Y (N)		
3	33	29	47	39	8	Y (N)	Veg. present	
4	35	30	47	39	8	Y (N)		

16  
24  
32

**Dust (Min. of 3 cores – Total Water Content SWE => 25)**

Water Quality Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No
	1						
2							Y N
3							Y N
4							Y N
5							Y N
6							Y N
7							Y N
8							Y N
9							Y N
10							Y N
11							Y N
12							Y N

**Water Quality (Min. of 3 cores – Total Water Content SWE => 100)**

\*\*\* Water Content<sub>SWE</sub> = Wt. of Tube & Core<sub>SWE</sub> – Wt. of Empty Tube<sub>SWE</sub> \*\*\*

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**Dust Sample Filters**

Total Volume of Melted Snow : 1060 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	114.7	196.4	81.7	Grass present in melted snow, filtered out.
2	116.6	296.1	179.5	
3				
4				
<b>Totals</b>	231.3	492.5	261.2	

**Water Quality Bottles**

Total Volume of Melted Snow : \_\_\_\_\_ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	Y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	Y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

Additional Comments

## Snow Sampling Field Sheet

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**GENERAL**

LOCATION NAME: SSS-2      DATE (yyyy-mm-dd): 2019-04-05      TIME (24:00): 15:19

SAMPLED BY: MN SSS-LL      TYPE OF SAMPLE: Dust  Water Quality  QAQC: N/A

GPS COORDINATES (UTM): 533150      E 7148875      N (Zone) 12      NAD 83

DESCRIPTION: Distance to Diavik \_\_\_\_\_ km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

Air Temp: 17 °C      Wind Direction: 320 NW      Wind Speed (knots): 7

Precipitation: Rain / Mist / Snow / Ice / None      Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Dust in area: Visible  Not Visible       Snow Condition: Crystallized  Packed  Wet  Dry

Dust Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
	1	40	34	47	39	8	Y (N)	
2	40	32	47	39	8	Y (N)		
3	40	27	47	39	8	Y (N)		
4	40	29	47	39	8	Y (N)		
<b>Dust (Min. of 3 cores – Total Water Content SWE =&gt; 25)</b>								
Water Quality Cores	1						Y N	
	2						Y N	
	3						Y N	
	4						Y N	
	5						Y N	
	6						Y N	
	7						Y N	
	8						Y N	
	9						Y N	
	10						Y N	
	11						Y N	
	12						Y N	
<b>Water Quality (Min. of 3 cores – Total Water Content SWE =&gt; 100)</b>								

\*\*\* Water Content <sub>SWE</sub> = Wt. of Tube & Core <sub>SWE</sub> – Wt. of Empty Tube <sub>SWE</sub> \*\*\*

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**Dust Sample Filters**

Total Volume of Melted Snow : 995 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	109.3	220.9	111.6	
2	113.6	183.0	69.4	
3	116.0	226.5	110.5	
4				
<b>Totals</b>	338.9	630.4	291.5	

**Water Quality Bottles**

Total Volume of Melted Snow : \_\_\_\_\_ (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments <u>DI Batch # for QAQC,</u> Location preserved if not in field, label changes
1	Metals Total	60 mL Falcon Tube	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	Y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	Y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	Y	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

Additional Comments

**Snow Sampling Field Sheet**

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**GENERAL**

LOCATION NAME: 555-3-4      DATE (yyyy-mm-dd): 2019-04-05      TIME (24:00): 1535

SAMPLED BY: MN 552 LC      TYPE OF SAMPLE: Dust  Water Quality  QAQC: DUPW/ WQ only

GPS COORDINATES (UTM): 0533143      E 7148701      N (Zone) 12      NAD 83

DESCRIPTION: Distance to Diavik 200m km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

Air Temp: -17 °C      Wind Direction: 320 NW      Wind Speed (knots): 7

Precipitation: Rain / Mist / Snow / Ice / None       Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Dust in area: Visible       Not Visible       Snow Condition: Crystallized  Packed  Wet  Dry

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
	1	32	32	48.0	39.0	9.0	Y (N)	Reweighed
	2	34	34	49.0	39.0	10.0	Y (N)	
	3	34	34	49.0	39.0	10.0	Y (N)	
	4						Y N	
<b>Dust (Min. of 3 cores – Total Water Content SWE =&gt; 25)</b>								
	1	<del>36.0</del> 36.0	<del>36.0</del> 36.0	50.0	39.0	11.0	Y (N)	Reweighed, Bag 1
	2	37.0	37.0	50.0	39.0	11.0	Y (N)	
	3	37.0	36.0	49.0	39.0	10.0	Y (N)	
	4	40.0	40.0	51.0	39.0	12.0	Y (N)	
	5	40.0	40.0	51.0	39.0	12.0	Y (N)	
	6	40.0	35.0	49.0	39.0	10.0	Y (N)	Reweigh, Bag 2
	7	42.0	42.0	<del>52.0</del> 50.0	39.0	13.0	Y (N)	
	8	41.0	40.0	51.0	39.0	12.0	Y (N)	
	9	41.0	40.0	51.0	39.0	12.0	Y (N)	
	10						Y N	
	11						Y N	
	12						Y N	
<b>Water Quality (Min. of 3 cores – Total Water Content SWE =&gt; 100)</b>								

32  
44  
56  
79  
91  
103

\*\*\* Water Content <sub>SWE</sub> = Wt. of Tube & Core <sub>SWE</sub> – Wt. of Empty Tube <sub>SWE</sub> \*\*\*

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**Dust Sample Filters**

Total Volume of Melted Snow : 885 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	124.0	231.4	107.4	
2	114.7	185.4	70.7	
3				
4				
<b>Totals</b>	238.7	416.8	178.1	

**Water Quality Bottles**

Total Volume of Melted Snow : 1480 + 1745  
3225 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
					DUPW1			
1	Metals Total	60 mL Falcon Tube	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

*Perchlorate*

\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

Additional Comments

**Snow Sampling Field Sheet**

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**GENERAL**

**LOCATION NAME:** 565-3-5      **DATE (yyyy-mm-dd):** 2019-04-05      **TIME (24:00):** 16:00  
**SAMPLED BY:** MN LO 552      **TYPE OF SAMPLE:** Dust  Water Quality  **QAQC:** DUPWA WA only  
**GPS COORDINATES (UTM):** 0583143      **E** 7148701      **N (Zone)** 12      **NAD 83**  
**DESCRIPTION:** Distance to Diavik \_\_\_\_\_ km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

**Air Temp:** -16 °C      **Wind Direction:** 340 N      **Wind Speed (knots):** 4  
**Precipitation:** Rain / Mist / Snow / Ice / None       **Cloud Cover:** 0% / 10% / 25% / 50% / 75% / 100%  
**Dust in area:** Visible  Not Visible       **Snow Condition:** Crystallized  Packed  Wet  Dry

Dust Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
	1					39.0		Y N
2							Y N	
3							Y N	
4							Y N	

No Dust Sample.

**Dust (Min. of 3 cores – Total Water Content SWE => 25)**

22  
35  
47  
60  
75  
89

Water Quality Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
	1	35.0	35.0	48.0	39.0	9.0	Y (N)	Reweigh Bag 1, layers in the snow
2	41.0	41.0	52.0	39.0	13.0	Y (N)		
3	43.0	43.0	52.0	39.0	13.0	Y (N)		
4	42.0	41.0	51.0	39.0	12.0	Y (N)		
5	42.0	42.0	52.0	39.0	13.0	Y (N)		
6	44.0	44.0	54.0	39.0	15.0	Y (N)	Reweighed, Bag 2	
7	44.0	44.0	53.0	39.0	14.0	Y N		
8	44.0	44.0	53.0	39.0	14.0	Y N		
9						Y N		
10						Y N		
11						Y N		
12						Y N		

**Water Quality (Min. of 3 cores – Total Water Content SWE => 100)**

\*\*\* **Water Content** <sub>SWE</sub> = **Wt. of Tube & Core** <sub>SWE</sub> – **Wt. of Empty Tube** <sub>SWE</sub> \*\*\*

1  
89  
11  
103



Snow Sampling Field Sheet			
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**Dust Sample Filters**

Total Volume of Melted Snow : \_\_\_\_\_ (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1				
2				
3				
4				
<b>Totals</b>				

1340 + 1920

**Water Quality Bottles**

Total Volume of Melted Snow : \_\_\_\_\_ (mL)

3260

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
					DUPW2			
1	Metals Total	60 mL Falcon Tube	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

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Additional Comments

**Snow Sampling Field Sheet**

<b>Area:</b> 8000	<b>No:</b> ENVI-177-0312
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**GENERAL**

**LOCATION NAME:** SS5-4      **DATE (yyyy-mm-dd):** 2019-04-05      **TIME (24:00):** 15:58

**SAMPLED BY:** LC MN 552      **TYPE OF SAMPLE:** Dust  Water Quality  **QAQC:** N/A

**GPS COORDINATES (UTM):** 533141      **E** 7147954      **N (Zone)** 12      **NAD 83**

**DESCRIPTION:** Distance to Diavik \_\_\_\_\_ km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

**Air Temp:** -17 °C      **Wind Direction:** 320 NW      **Wind Speed (knots):** 7

**Precipitation:** Rain / Mist / Snow / Ice / None       **Cloud Cover:** 0% / 10% / 25% / 50% / 75% / 100%

**Dust in area:** Visible  Not Visible       **Snow Condition:** Crystallized  Packed  Wet  Dry

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)		
Dust Cores	1	36	36	49	39	10	Y <input checked="" type="checkbox"/> N	weigh.		10
	2	35	25	48	↓	7	Y <input checked="" type="checkbox"/> N			19
	3	35	24	47	↓	8	Y <input checked="" type="checkbox"/> N			27
	4						Y N			
<b>Dust (Min. of 3 cores – Total Water Content SWE =&gt; 25)</b>										
Water Quality Cores	1	38	38	50	39	11	Y <input checked="" type="checkbox"/> N	reweigh bag		11
	2	36	36	49	39	10	Y <input checked="" type="checkbox"/> N			21
	3	38	38	50	39	11	Y <input checked="" type="checkbox"/> N			32
	4	39	39	50	39	11	Y <input checked="" type="checkbox"/> N			43
	5	40	40	52	39	13	Y <input checked="" type="checkbox"/> N			56
	6	40	36	50	39	11	Y <input checked="" type="checkbox"/> N	reweigh tube bag 2.		67
	7	40	38	52	39	13	Y <input checked="" type="checkbox"/> N			80
	8	40	36	51	39	12	Y <input checked="" type="checkbox"/> N			92
	9	37	36	50	39	11	Y <input checked="" type="checkbox"/> N			103
	10						Y N			
	11						Y N			
	12						Y N			
<b>Water Quality (Min. of 3 cores – Total Water Content SWE =&gt; 100)</b>										

\*\*\* **Water Content** <sub>SWE</sub> = **Wt. of Tube & Core** <sub>SWE</sub> – **Wt. of Empty Tube** <sub>SWE</sub> \*\*\*

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### Dust Sample Filters

Total Volume of Melted Snow : 825 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	115.8	153.0	37.2	
2				
3				
4				
<b>Totals</b>	115.8	153.0	37.2	

### Water Quality Bottles

1735 + 1415  
Total Volume of Melted Snow : \_\_\_\_\_ (mL)  
3150

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments <u>DI Batch # for QAQC</u> , Location preserved if not in field, label changes
					GW			
1	Metals Total	60 mL Falcon Tube	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

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Additional Comments

## Snow Sampling Field Sheet

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**GENERAL**

LOCATION NAME: 555-5      DATE (yyyy-mm-dd): 2019-04-05      TIME (24:00): 1320

SAMPLED BY: MN LC 552      TYPE OF SAMPLE: Dust  Water Quality  QAQC: N/A

GPS COORDINATES (UTM): 053935      E 7146948      N (Zone) 12      NAD 83

DESCRIPTION: Distance to Diavik \_\_\_\_\_ km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

Air Temp: -18 °C      Wind Direction: 320° NW      Wind Speed (knots): 6

Precipitation: Rain / Mist / Snow / Ice / None       Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Dust in area: Visible  Not Visible       Snow Condition: Crystallized  Packed  Wet  Dry

Dust Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)
	1	26	21	46	39.0	<del>46</del> 7.0	Y (N)	Reweighed
2	30	22	45	39.0	6.0	Y (N)	Hard packed top layer w/ crystal bottom	
3	27	27	<del>47</del>	39.0	8.0	Y (N)		
4	30	20	45	39.0	6.0	Y (N)		

**Dust (Min. of 3 cores – Total Water Content SWE => 25)**

Water Quality Cores	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments
	14	1	25	23	46.0	39.0	7.0	Y (N)
28	2	30	24	<del>46.0</del>	39.0	7.0	Y (N)	
47	3	30	28	47.0	39.0	8.0	Y (N)	
57	4	30	22	45.0	39.0	6.0	Y (N)	
77	5	32	32	49.0	39.0	10.0	Y (N)	
87	6	32	32	48.0	39.0	9.0	Y (N)	
98	7	33	33	49.0	39.0	10.0	Y (N)	
	8	30	30	48.0	39.0	9.0	Y (N)	Reweigh, Bag 1
	9	36	36	50.0	39.0	11.0	Y (N)	
	10	37	36	49.0	39.0	10.0	Y (N)	
	11	39	38	50.0	39.0	11.0	Y (N)	
	12	39	39	50.0	39.0	11.0	Y (N)	

**Water Quality (Min. of 3 cores – Total Water Content SWE => 100)**

\*\*\* Water Content <sub>SWE</sub> = Wt. of Tube & Core <sub>SWE</sub> – Wt. of Empty Tube <sub>SWE</sub> \*\*\*

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**Dust Sample Filters**

Total Volume of Melted Snow : 850 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	117.7	137.5	19.8	
2				
3				
4				
<b>Totals</b>	117.7	137.5	19.8	

**Water Quality Bottles**

1815 + 1605  
Total Volume of Melted Snow : \_\_\_\_\_ (mL)  
3420

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments <u>DI Batch # for QAQC.</u> Location preserved if not in field, label changes
					(GW)			
1	Metals Total	60 mL Falcon Tube	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	TSS/Turb/pH	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

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Additional Comments

## Snow Sampling Field Sheet

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**GENERAL**

LOCATION NAME: SSC-1      DATE (yyyy-mm-dd): 2014-04-05      TIME (24:00): 12:00

SAMPLED BY: MN SSC LC      TYPE OF SAMPLE: Dust  Water Quality  QAQC: DuPW

GPS COORDINATES (UTM): 534941 E 7144103 N (Zone) 12 NAD 83

DESCRIPTION: Distance to Diavik \_\_\_\_\_ km & Direction \_\_\_\_\_ On: Land  &/or Lake

**CLIMATE CONDITIONS (if sampling outside)**

Air Temp: 10 °C      Wind Direction: 348 N      Wind Speed (knots): 10

Precipitation: Rain / Mist / Snow / Ice / None      Cloud Cover: 0% / 10% / 25% / 50% / 75% / 100%

Dust in area: Visible  Not Visible       Snow Condition: Crystallized  Packed  Wet  Dry

	Core Number	Depth of Snow (cm)	Length of Snow Core (cm)	Weight of Tube & Core-SWE (cm)	Weight of Empty Tube-SWE (cm)	Water Content-SWE (cm)	Dust Present Yes/No	Comments (core weighed, bag #, changes in snow condition)	
									Dust Cores
	1	38	35	49	39	10	Y <input checked="" type="checkbox"/> N	weigh.	
	2	38	35	49	39	10	Y <input checked="" type="checkbox"/> N		
	3	32	29	47	39	8	Y <input checked="" type="checkbox"/> N		
	4	40	35	49	39	10	Y <input checked="" type="checkbox"/> N		
<b>Dust (Min. of 3 cores – Total Water Content SWE =&gt; 25)</b>									
Water Quality Cores	1	45	36	49	39	10	Y <input checked="" type="checkbox"/> N	vegetation present nearby	
	2	48	36	50	39	11	Y <input checked="" type="checkbox"/> N		
	3	45	27	47	39	8	Y <input checked="" type="checkbox"/> N		
	4	45	29	43	39	4	Y <input checked="" type="checkbox"/> N		
	5	45	30	50	39	11	Y <input checked="" type="checkbox"/> N		
	6	44	29	48	39	9	Y <input checked="" type="checkbox"/> N		reweigh bag 2.
	7	45	30	47	39	8	Y <input checked="" type="checkbox"/> N		
	8	41	30	48	39	9	Y <input checked="" type="checkbox"/> N		
	9	43	29	48	39	9	Y <input checked="" type="checkbox"/> N		
	10	43	35	49	39	10	Y <input checked="" type="checkbox"/> N		veg. present
	11	45	39	50	39	11	Y <input checked="" type="checkbox"/> N		
	12	45	30	48	39	9	Y <input checked="" type="checkbox"/> N		
<b>Water Quality (Min. of 3 cores – Total Water Content SWE =&gt; 100)</b>									

\*\*\* Water Content <sub>SWE</sub> = Wt. of Tube & Core <sub>SWE</sub> – Wt. of Empty Tube <sub>SWE</sub> \*\*\*



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**Dust Sample Filters**

Total Volume of Melted Snow : 1255 (mL)

Filter #	Weight of Filter (mg)	Filter + Residue (mg)	Residue Weight (mg)	Comments
1	114.7	133.6	18.9	
2				
3				
4				
<b>Totals</b>	114.7	133.6	18.9	

**Water Quality Bottles**

Total Volume of Melted Snow : ~~1520~~ 2,190 + 1515  
3705 (mL)

Filling Order	Analysis	Bottle Type	Triple Rinse	Preserve	Sample Type *	Sample Type *	Sample Type *	Sample Comments DI Batch # for QAQC, Location preserved if not in field, label changes
					DUPW1			
1	Metals Total	60 mL Falcon Tube	(Y)	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Metals Dissolved	60 mL Falcon Tube	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Total Mercury	40 mL clear glass (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Nutrients	120 mL plastic (pre-preserved)	N	(Y)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Routine	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Some vegetation
6	TSS/Turb/pH	1000 mL plastic	(Y)	N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Some vegetation

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\*Sample Type: GW, DUPW1/DUPW2, FBW, TBW, EBW, REP1/ REP2, Filter Blank

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Additional Comments