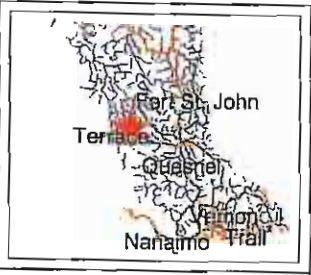
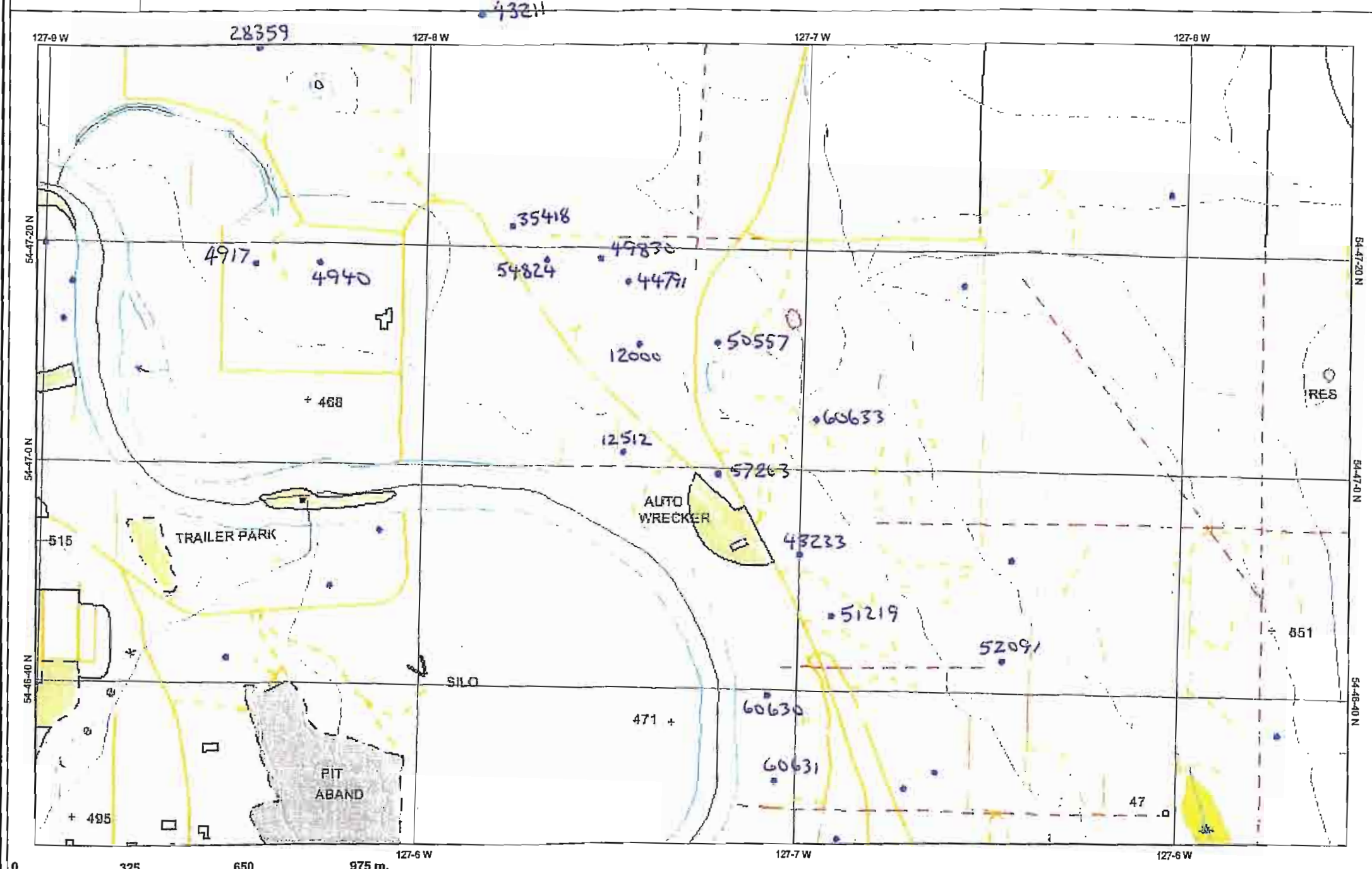


**APPENDIX C**

**Water Well Information**

# Well Locations



## Legend

- WDIC - Waterbody Poly
- TWA Miscellaneous
- ✓ 1:8M Annotation
- Water Wells
- ~ TWA - Skeletons
- ~ TWA - Watersheds
- ~ TWA - Linear Water
- ~ Ice Masses (EBM)
- Glacier
- Icefold
- Landcover - Polygon (EBM)
- Vineyard
- Nursery
- Orchard
- Landform - Polygons (EBM)
- Dry Riverbed
- Esker
- Lavabed
- Moraine
- Scree
- Slide
- Volcanic Crater
- Rock Outcrop
- Contours (TRIM)
  - Contour - Index
  - Contour - Index, Indefinite
  - Contour - Index, Depression
  - Contour - Index, Depression, Indefinite
  - Contour - Intermediate
  - Contour - Intermediate, Indefinite
  - Contour - Intermediate, Depression
  - Contour - Intermediate, Depression, Indefinite
- Area of Exclusion
- Area of Indefinite Contours
- Annotation (TRIM)
- Elevation - Points (TRIM)
  - Spot Height
  - Mountain Peak
- Miscellaneous Features - Points (TRIM)
  - Monument (Horizontal Control)
  - Monument (Vertical Control)
  - Photo Centre
  - Cadastral Point - Permanently Marked
  - Landcover - Points (TRIM)
  - Landcover - Lines (TRIM)
  - Wooded Area
  - Nursery
  - Orchard
  - Landform - Points (TRIM)



Map center: 54° 47' 2" N, 127° 7' 17" W

Scale: 1:10,931

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

• - WELL LOCATION AND WELL TAG NUMBER



## Report 1 - Detailed Well Record

<p>Well Tag Number: 4917</p> <p>Owner: H BOOSTRA</p> <p>Address:</p> <p>Area:</p> <p>WELL LOCATION:          COAST RANGE 5 Land District          District Lot: Plan: Lot:          Township: 4 Section: 31Range:          Indian Reserve: Meridian: Block:          Quarter: SE          Island          BCGS Number (NAD 27): 093L075343 Well: 10</p> <p>Class of Well:          Subclass of Well:          Orientation of WELL:          Status of Well: New          Well Use: Domestic          Observation Well Number:          Observation Well Status:          Construction Method: Dug          Diameter: 0.0 inches          Well Depth: 20.0 feet          Elevation: 0          Bedrock Depth: UNK feet          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0</p>	<p>Construction Date: 1950-01-01 00:00:00.</p> <p>Driller: Unknown          Well Identification Plate Number:          Plate Attached By:          Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:          Well Yield: 0 (Driller's Estimate)          Artesian Flow: 0          Static Level: 16 feet</p> <p>Water Utility:          Water Supply System Name:          Water Supply System Well Name:</p> <p>Surface Seal Flag:          Surface Seal Material:          Surface Seal Method:          Surface Seal Depth: 0          Surface Seal Thickness:</p> <p>Lithology Info Flag:          Pump Test Info Flag:          File Info Flag:          Sieve Info Flag:          Screen Info Flag:          EMS ID:          Water Chemistry Info Flag:          Field Chemistry Info Flag:          Site Info (SEAM):          Site Info Details:          Other Info Flag:          Other Info Details:</p>
<p>GENERAL REMARKS:</p> <p>From 0 to 20 Ft. clay</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 4940</p> <p>Owner: A VIERSEN</p> <p>Address:</p> <p>Area:</p> <p>WELL LOCATION:  COAST RANGE 5 Land District  District Lot: Plan: Lot:  Township: 4 Section: 31Range:  Indian Reserve: Meridian: Block:  Quarter: SE  Island  BCGS Number (NAD 27): 093L075343 Well: 9</p> <p>Class of Well:  Subclass of Well:  Orientation of WELL:  Status of Well: New  Well Use: Domestic  Observation Well Number:  Observation Well Status:  Construction Method: Dug  Diameter: 0.0 inches  Well Depth: 13.0 feet  Elevation: 0  Bedrock Depth: UNK feet  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0</p>	<p>Construction Date: 1950-01-01 00:00:00.</p> <p>Driller: Unknown  Well Identification Plate Number:  Plate Attached By:  Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:  Well Yield: 0 (Driller's Estimate)  Artesian Flow: 0  Static Level: 10 feet</p> <p>Water Utility:  Water Supply System Name:  Water Supply System Well Name:</p> <p>Surface Seal Flag:  Surface Seal Material:  Surface Seal Method:  Surface Seal Depth: 0  Surface Seal Thickness:</p> <p>Lithology Info Flag:  Pump Test Info Flag:  File Info Flag:  Sieve Info Flag:  Screen Info Flag:  EMS ID:  Water Chemistry Info Flag:  Field Chemistry Info Flag:  Site Info (SEAM):  Site Info Details:  Other Info Flag:  Other Info Details:</p>
<p>GENERAL REMARKS:</p> <p>From 0 to 13 Ft. gravel</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 28359</p> <p>Owner: PETER PLUG</p> <p>Address:</p> <p>Area:</p> <p>WELL LOCATION:          COAST RANGE 5 Land District          District Lot: Plan: 6938 Lot: 44          Township: 4 Section: 31 Range:          Indian Reserve: Meridian: Block:          Quarter:              Island          BCGS Number (NAD 27): 093L075343 Well: 3</p> <p>Class of Well:          Subclass of Well:          Orientation of WELL:          Status of Well: New          Well Use: Domestic          Observation Well Number:          Observation Well Status:          Construction Method: Unknown Constru          Diameter: 0.0 inches          Well Depth: 168.0 feet          Elevation: 0          Bedrock Depth: 155 feet          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0</p>	<p>Construction Date: 1973-07-01 00:00:00.</p> <p>Driller: Joe's Drilling          Well Identification Plate Number:          Plate Attached By:          Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:          Well Yield: 0 (Driller's Estimate)          Artesian Flow: 0          Static Level: feet</p> <p>Water Utility:          Water Supply System Name:          Water Supply System Well Name:</p> <p>Surface Seal Flag:          Surface Seal Material:          Surface Seal Method:          Surface Seal Depth: 0          Surface Seal Thickness:</p> <p>Lithology Info Flag:          Pump Test Info Flag:          File Info Flag:          Sieve Info Flag:          Screen Info Flag:          EMS ID:          Water Chemistry Info Flag:          Field Chemistry Info Flag:          Site Info (SEAM):          Site Info Details:          Other Info Flag:          Other Info Details:</p>
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### GENERAL REMARKS:

From 0 to 38 Ft. clay with stones  
 From 38 to 55 Ft. saturated rocks and clay  
 From 55 to 102 Ft. blue clay small gravel  
 From 102 to 132 Ft. brown clay rocks from 102 - 104 ft and 130 - 132 ft  
 From 132 to 155 Ft. clay with gravel  
 From 155 to 165 Ft. gravel and clay  
 From 165 to 168 Ft. argelite rock  
 From 0 to 0 Ft. HOLE # 2  
 From 0 to 62 Ft. clay saturated with rocks  
 From 62 to 132 Ft. brown clay  
 From 132 to 155 Ft. clay gravel  
 From 155 to 168 Ft. argelite rock

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 43211</p> <p>Owner: DAVID PEARCE</p> <p>Address: BABINE L RD</p> <p>Area: VIEWMONT</p> <p>WELL LOCATION:          COAST RANGE 5 Land District          District Lot: Plan: 8945 Lot: A          Township: 4 Section: 32 Range:          Indian Reserve: Meridian: Block:          Quarter:            Island          BCGS Number (NAD 27): 093L075343 Well: 1</p> <p>Class of Well:          Subclass of Well:          Orientation of WELL:          Status of Well: New          Well Use: Unknown Well Use          Observation Well Number:          Observation Well Status:          Construction Method: Drilled          Diameter: 6.0 inches          Well Depth: 550.0 feet          Elevation: 0          Bedrock Depth: 130 feet          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0</p>	<p>Construction Date: 1979-08-25 00:00:00.</p> <p>Driller: Interior Water Wells          Well Identification Plate Number:          Plate Attached By:          Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:          Well Yield: .5 (Driller's Estimate)          Artesian Flow: 0          Static Level: feet</p> <p>Water Utility:          Water Supply System Name:          Water Supply System Well Name:</p> <p>Surface Seal Flag:          Surface Seal Material:          Surface Seal Method:          Surface Seal Depth: 0          Surface Seal Thickness:</p> <p>Lithology Info Flag:          Pump Test Info Flag:          File Info Flag:          Sieve Info Flag:          Screen Info Flag:          EMS ID:          Water Chemistry Info Flag:          Field Chemistry Info Flag:          Site Info (SEAM):          Site Info Details:          Other Info Flag:          Other Info Details:</p>
<p>GENERAL REMARKS:</p> <p>From 0 to 30 Ft. tight grey sand and gravel          From 30 to 38 Ft. tight brown clay          From 38 to 40 Ft. loose yellow silt          From 40 to 70 Ft. loose brown silt          From 70 to 130 Ft. tight grey till          From 130 to 550 Ft. grey bedrock</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 35418</p> <p>Owner: PETERS GREGORY &amp; WIL</p> <p>Address: VIEWMOUNT RD</p> <p>Area:</p> <p>WELL LOCATION:          COAST RANGE 5 Land District          District Lot: Plan: 8245 Lot: 2          Township: 4 Section: 32 Range: 5          Indian Reserve: Meridian: Block:          Quarter:          Island          BCGS Number (NAD 27): 093L075343 Well: 7</p> <p>Class of Well:          Subclass of Well:          Orientation of WELL:          Status of Well: New          Well Use: Domestic          Observation Well Number:          Observation Well Status:          Construction Method: Drilled          Diameter: 6.0 inches          Well Depth: 158.5 feet          Elevation: 0          Bedrock Depth: UNK feet          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0</p>	<p>Construction Date: 1976-08-01 00:00:00.</p> <p>Driller: Joe's Drilling          Well Identification Plate Number:          Plate Attached By:          Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:          Well Yield: 6 (Driller's Estimate)          Artesian Flow: 0          Static Level: feet</p> <p>Water Utility:          Water Supply System Name:          Water Supply System Well Name:</p> <p>Surface Seal Flag:          Surface Seal Material:          Surface Seal Method:          Surface Seal Depth: 0          Surface Seal Thickness:</p> <p>Lithology Info Flag:          Pump Test Info Flag:          File Info Flag:          Sieve Info Flag:          Screen Info Flag:          EMS ID:          Water Chemistry Info Flag:          Field Chemistry Info Flag:          Site Info (SEAM):          Site Info Details:          Other Info Flag:          Other Info Details:</p>
<p>GENERAL REMARKS:</p> <p>From 0 to 18 Ft. light brown clay rocks          From 18 to 95 Ft. grey clay sticky some gravel          From 95 to 116 Ft. light brown clay some gravel          From 116 to 130 Ft. darker brown clay some gravel          From 130 to 150 Ft. light brown clay some gravel          From 150 to 157 Ft. grey clay some gravel          From 157 to 158.5 Ft. gravel sand clay very compact (w.b.)</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 54824</p> <p>Owner: KERRY HEATHMAN</p> <p>Address: VIEWMOUNT RD</p> <p>Area: SMITHERS</p> <p>WELL LOCATION:          COAST RANGE 5 Land District          District Lot: Plan: 8245 Lot: 3          Township: 4 Section: 32 Range: 5          Indian Reserve: Meridian: Block:          Quarter:              Island          BCGS Number (NAD 27): 093L075343 Well: 6</p> <p>Class of Well:          Subclass of Well:          Orientation of WELL:          Status of Well: New          Well Use: Domestic          Observation Well Number:          Observation Well Status:          Construction Method: Drilled          Diameter: 6.0 inches          Well Depth: 163.0 feet          Elevation: 0          Bedrock Depth: 161 feet          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0</p>	<p>Construction Date: 1985-06-01 00:00:00.</p> <p>Driller: Joe's Drilling          Well Identification Plate Number:          Plate Attached By:          Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:          Well Yield: 5 (Driller's Estimate)          Artesian Flow: 0          Static Level: 121 feet</p> <p>Water Utility:          Water Supply System Name:          Water Supply System Well Name:</p> <p>Surface Seal Flag:          Surface Seal Material:          Surface Seal Method:          Surface Seal Depth: 0          Surface Seal Thickness:</p> <p>Lithology Info Flag:          Pump Test Info Flag:          File Info Flag:          Sieve Info Flag:          Screen Info Flag:          EMS ID:          Water Chemistry Info Flag:          Field Chemistry Info Flag:          Site Info (SEAM):          Site Info Details:          Other Info Flag:          Other Info Details:</p>
<p>GENERAL REMARKS:</p> <p>From 0 to 10 Ft. light brown clay some rocks          From 10 to 92 Ft. grey clay sticky some gravel          From 92 to 112 Ft. light brown clay some gravel          From 112 to 114 Ft. sticky grey clay some gravel          From 114 to 149 Ft. sticky brown clay some gravel          From 149 to 161.3 Ft. grey clay a lot more gravel          From 161.3 to 161.3 Ft. bedrock or rock</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 49830</p> <p>Owner: PETERS GREGORY &amp; W</p> <p>Address: VIEWMOUNT RD</p> <p>Area:</p> <p>WELL LOCATION:  COAST RANGE 5 Land District  District Lot: Plan: 8245 Lot: 2  Township: 4 Section: 32Range: 5  Indian Reserve: Meridian: Block:  Quarter:  Island  BCGS Number (NAD 27): 093L075344 Well: 1</p> <p>Class of Well:  Subclass of Well:  Orientation of WELL:  Status of Well: New  Well Use: Unknown Well Use  Observation Well Number:  Observation Well Status:  Construction Method: Drilled  Diameter: 0.0 inches  Well Depth: 505.0 feet  Elevation: 0  Bedrock Depth: 148 feet  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0</p>	<p>Construction Date: 1982-01-01 00:00:00.</p> <p>Driller: Joe's Drilling  Well Identification Plate Number:  Plate Attached By:  Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:  Well Yield: 0 (Driller's Estimate)  Artesian Flow: 0  Static Level: feet</p> <p>Water Utility:  Water Supply System Name:  Water Supply System Well Name:</p> <p>Surface Seal Flag:  Surface Seal Material:  Surface Seal Method:  Surface Seal Depth: 0  Surface Seal Thickness:</p> <p>Lithology Info Flag:  Pump Test Info Flag:  File Info Flag:  Sieve Info Flag:  Screen Info Flag:  EMS ID:  Water Chemistry Info Flag:  Field Chemistry Info Flag:  Site Info (SEAM):  Site Info Details:  Other Info Flag:  Other Info Details:</p>
<p>GENERAL REMARKS:</p> <p>From 0 to 18 Ft. light brown clay  From 18 to 85 Ft. grey clay some gravel  From 85 to 130 Ft. light brown clay sticky some gravel  From 130 to 148 Ft. darker clay sand gravel  From 148 to 505 Ft. bedrock brown with white flecks</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 44791</p> <p>Owner: BOB KESTER</p> <p>Address: NEWMAN &amp; VIEWMOUNT RDS</p> <p>Area: SMITHERS</p> <p>WELL LOCATION:  COAST RANGE 5 Land District  District Lot: Plan: 8245 Lot: 1  Township: 4 Section: 32Range:  Indian Reserve: Meridian: Block:  Quarter:  Island  BCGS Number (NAD 27): 093L075344 Well: 2</p> <p>Class of Well:  Subclass of Well:  Orientation of WELL:  Status of Well: New  Well Use: Unknown Well Use  Observation Well Number:  Observation Well Status:  Construction Method: Drilled  Diameter: 0.0 inches  Well Depth: 600.0 feet  Elevation: 0  Bedrock Depth: 153 feet  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0</p>	<p>Construction Date: 1980-04-15 00:00:00.</p> <p>Driller: Industrial Drillers  Well Identification Plate Number:  Plate Attached By:  Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:  Well Yield: .5 (Driller's Estimate)  Artesian Flow: 0  Static Level: feet</p> <p>Water Utility:  Water Supply System Name:  Water Supply System Well Name:</p> <p>Surface Seal Flag:  Surface Seal Material:  Surface Seal Method:  Surface Seal Depth: 0  Surface Seal Thickness:</p> <p>Lithology Info Flag:  Pump Test Info Flag:  File Info Flag:  Sieve Info Flag:  Screen Info Flag:  EMS ID:  Water Chemistry Info Flag:  Field Chemistry Info Flag:  Site Info (SEAM):  Site Info Details:  Other Info Flag:  Other Info Details:</p>
<p>GENERAL REMARKS:</p> <p>From 0 to 23 Ft. gravel boulders  From 23 to 153 Ft. till some boulders  From 153 to 600 Ft. bedrock (w.b.)</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 12000</p> <p>Owner: OKANAGAN HELICOPTER</p> <p>Address:</p> <p>Area:</p> <p>WELL LOCATION:  COAST RANGE 5 Land District  District Lot: Plan: Lot:  Township: 4 Section: 32Range:  Indian Reserve: Meridian: Block:  Quarter: SW  Island  BCGS Number (NAD 27): 093L075342 Well: 4</p> <p>Class of Well:  Subclass of Well:  Orientation of WELL:  Status of Well: New  Well Use: Domestic  Observation Well Number:  Observation Well Status:  Construction Method: Dug  Diameter: 0.0 inches  Well Depth: 6.0 feet  Elevation: 0  Bedrock Depth: UNK feet  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0</p>	<p>Construction Date: 1950-01-01 00:00:00.</p> <p>Driller: Unknown  Well Identification Plate Number:  Plate Attached By:  Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:  Well Yield: 0 (Driller's Estimate)  Artesian Flow: 0  Static Level: feet</p> <p>Water Utility:  Water Supply System Name:  Water Supply System Well Name:</p> <p>Surface Seal Flag:  Surface Seal Material:  Surface Seal Method:  Surface Seal Depth: 0  Surface Seal Thickness:</p> <p>Lithology Info Flag:  Pump Test Info Flag:  File Info Flag:  Sieve Info Flag:  Screen Info Flag:  EMS ID:  Water Chemistry Info Flag:  Field Chemistry Info Flag:  Site Info (SEAM):  Site Info Details:  Other Info Flag:  Other Info Details:</p>
<p>GENERAL REMARKS:</p> <p>From 0 to 6 Ft. all clay gumbo with odd boulders</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 12512</p> <p>Owner: G APPERLOO</p> <p>Address: VIEWMONT ROAD &amp; BABINE LAKE RD</p> <p>Area:</p> <p>WELL LOCATION:          COAST RANGE 5 Land District          District Lot: Plan: 3874 Lot: 2          Township: 4 Section: 32Range:          Indian Reserve: Meridian: Block:          Quarter:          Island          BCGS Number (NAD 27): 093L075342 Well: 3</p> <p>Class of Well:          Subclass of Well:          Orientation of WELL:          Status of Well: New          Well Use: Unknown Well Use          Observation Well Number:          Observation Well Status:          Construction Method: Drilled          Diameter: 6.0 inches          Well Depth: 620.0 feet          Elevation: 0          Bedrock Depth: 98 feet          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0</p>	<p>Construction Date: 1950-01-01 00:00:00.</p> <p>Driller: Interior Water Wells          Well Identification Plate Number:          Plate Attached By:          Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:          Well Yield: .5 (Driller's Estimate)          Artesian Flow: 0          Static Level: feet</p> <p>Water Utility:          Water Supply System Name:          Water Supply System Well Name:</p> <p>Surface Seal Flag:          Surface Seal Material:          Surface Seal Method:          Surface Seal Depth: 0          Surface Seal Thickness:</p> <p>Lithology Info Flag:          Pump Test Info Flag:          File Info Flag:          Sieve Info Flag:          Screen Info Flag:          EMS ID:          Water Chemistry Info Flag:          Field Chemistry Info Flag:          Site Info (SEAM):          Site Info Details:          Other Info Flag:          Other Info Details:</p>
<p>GENERAL REMARKS:</p> <p>From 0 to 30 Ft. grey sand and gravel          From 30 to 80 Ft. grey till          From 80 to 98 Ft. grey till and sand          From 98 to 620 Ft. dark grey shale</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 50557</p> <p>Owner: MARY BERG</p> <p>Address: BABINE LAKE RD</p> <p>Area: SMITHERS</p> <p>WELL LOCATION:  COAST RANGE 5 Land District  District Lot: Plan: 5436 Lot: 7  Township: 4 Section: 32Range:  Indian Reserve: Meridian: Block:  Quarter:  Island  BCGS Number (NAD 27): 093L075342 Well: 5</p> <p>Class of Well:  Subclass of Well:  Orientation of Well:  Status of Well: New  Well Use: Domestic  Observation Well Number:  Observation Well Status:  Construction Method: Drilled  Diameter: 0.0 inches  Well Depth: 108.0 feet  Elevation: 0  Bedrock Depth: 15 feet  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0  Screen from 0 to 0 feet Slot Size 0</p>	<p>Construction Date: 1982-06-30 00:00:00.</p> <p>Driller: Industrial Drillers  Well Identification Plate Number:  Plate Attached By:  Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:  Well Yield: 5 (Driller's Estimate)  Artesian Flow: 0  Static Level: 18 feet</p> <p>Water Utility:  Water Supply System Name:  Water Supply System Well Name:</p> <p>Surface Seal Flag:  Surface Seal Material:  Surface Seal Method:  Surface Seal Depth: 0  Surface Seal Thickness:</p> <p>Lithology Info Flag:  Pump Test Info Flag:  File Info Flag:  Sieve Info Flag:  Screen Info Flag:  EMS ID:  Water Chemistry Info Flag:  Field Chemistry Info Flag:  Site Info (SEAM):  Site Info Details:  Other Info Flag:  Other Info Details:</p>
<p>GENERAL REMARKS:</p> <p>From 0 to 15 Ft. clay rocks  From 15 to 127 Ft. bedrock</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 57263</p> <p>Owner: APPERLOO, GARRETT &amp;</p> <p>Address: BABINE LAKE ROAD</p> <p>Area: SMITHERS</p> <p>WELL LOCATION:          COAST RANGE 5 Land District          District Lot: Plan: 3814 Lot: 2          Township: 4 Section: 32 Range: 5          Indian Reserve: Meridian: Block:          Quarter:              Island          BCGS Number (NAD 27): 093L075342 Well: 10</p> <p>Class of Well:          Subclass of Well:          Orientation of Well:          Status of Well: New          Well Use: Domestic          Observation Well Number:          Observation Well Status:          Construction Method: Drilled          Diameter: 0.0 inches          Well Depth: 320.0 feet          Elevation: 0          Bedrock Depth: 110 feet</p>	<p>Construction Date: 1987-07-15 00:00:00.0</p> <p>Driller: Industrial Drillers          Well Identification Plate Number:          Plate Attached By:          Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:          Well Yield: 0 (Driller's Estimate)          Artesian Flow: 0          Static Level: feet</p> <p>Water Utility:          Water Supply System Name:          Water Supply System Well Name:</p> <p>Surface Seal Flag:          Surface Seal Material:          Surface Seal Method:          Surface Seal Depth:          Surface Seal Thickness:</p> <p>Lithology Info Flag:          Pump Test Info Flag:          File Info Flag:          Sieve Info Flag:          Screen Info Flag:          EMS ID:          Water Chemistry Info Flag:          Field Chemistry Info Flag:          Site Info (SEAM):          Site Info Details:          Other Info Flag:          Other Info Details:</p>
<p>GENERAL REMARKS:          BABINE LAKE ROAD JUST PAST HARRIS AUTO WRECKER DRY WELL</p> <p>From 0 to 110 Ft. CLAY ROCKS          From 110 to 320 Ft. BEDROCK</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 43233</p> <p>Owner: H KLOP</p> <p>Address: GILL RD</p> <p>Area:</p> <p>WELL LOCATION:  NEW WESTMINSTER Land District  District Lot: 470 Plan: 2385 Lot:  Township: Section: Range:  Indian Reserve: Meridian: Block:  Quarter:  Island  BCGS Number (NAD 27): 092H021222 Well: 1</p> <p>Class of Well:  Subclass of Well:  Orientation of Well:  Status of Well: New  Well Use: Unknown Well Use  Observation Well Number:  Observation Well Status:  Construction Method: Drilled  Diameter: 6.0 inches  Well Depth: 58.0 feet  Elevation: 0  Bedrock Depth: UNK feet</p>	<p>Construction Date: 1979-08-30 00:00:00.0</p> <p>Driller: Pacific Water Wells  Well Identification Plate Number:  Plate Attached By:  Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:  Well Yield: 50 (Driller's Estimate) G  Artesian Flow:  Static Level: 11 feet</p> <p>Water Utility:  Water Supply System Name:  Water Supply System Well Name:</p> <p>Surface Seal Flag:  Surface Seal Material:  Surface Seal Method:  Surface Seal Depth:  Surface Seal Thickness:</p> <p>Lithology Info Flag:  Pump Test Info Flag:  File Info Flag:  Sieve Info Flag:  Screen Info Flag:  EMS ID:  Water Chemistry Info Flag:  Field Chemistry Info Flag:  Site Info (SEAM):  Site Info Details:  Other Info Flag:  Other Info Details:</p>																																
<p>GENERAL REMARKS:</p> <p>REC. PUMP RATE 50 GPM, REC. PUMP SETTING 50'</p> <table border="0"> <tr> <td>From</td> <td>0 to</td> <td>5 Ft.</td> <td>Top soil</td> </tr> <tr> <td>From</td> <td>5 to</td> <td>18 Ft.</td> <td>Dry sand and gravel</td> </tr> <tr> <td>From</td> <td>18 to</td> <td>23 Ft.</td> <td>Coarse sand and gravel</td> </tr> <tr> <td>From</td> <td>23 to</td> <td>25 Ft.</td> <td>Sand</td> </tr> <tr> <td>From</td> <td>25 to</td> <td>38 Ft.</td> <td>Sand, gravel</td> </tr> <tr> <td>From</td> <td>38 to</td> <td>43 Ft.</td> <td>Sand</td> </tr> <tr> <td>From</td> <td>43 to</td> <td>50 Ft.</td> <td>Sand, some gravel</td> </tr> <tr> <td>From</td> <td>50 to</td> <td>58 Ft.</td> <td>Sand</td> </tr> </table>		From	0 to	5 Ft.	Top soil	From	5 to	18 Ft.	Dry sand and gravel	From	18 to	23 Ft.	Coarse sand and gravel	From	23 to	25 Ft.	Sand	From	25 to	38 Ft.	Sand, gravel	From	38 to	43 Ft.	Sand	From	43 to	50 Ft.	Sand, some gravel	From	50 to	58 Ft.	Sand
From	0 to	5 Ft.	Top soil																														
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From	18 to	23 Ft.	Coarse sand and gravel																														
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From	50 to	58 Ft.	Sand																														

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 51219</p> <p>Owner: CAPEWELL DAVID &amp; MAR</p> <p>Address: VIEWMT &amp; BABINE LAKE RD</p> <p>Area:</p> <p>WELL LOCATION:          COAST RANGE 5 Land District          District Lot: Plan: 9204 Lot: 2          Township: 4 Section: 29 Range: 5          Indian Reserve: Meridian: Block:          Quarter:          Island          BCGS Number (NAD 27): 093L075342 Well: 7</p> <p>Class of Well:          Subclass of Well:          Orientation of Well:          Status of Well: New          Well Use: Domestic          Observation Well Number:          Observation Well Status:          Construction Method: Drilled          Diameter: 6.0 inches          Well Depth: 360.0 feet          Elevation: 0          Bedrock Depth: 0 feet          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0</p>	<p>Construction Date: 1982-10-26 00:00:00.</p> <p>Driller: Industrial Drillers          Well Identification Plate Number:          Plate Attached By:          Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:          Well Yield: 40 (Driller's Estimate)          Artesian Flow: 0          Static Level: 40 feet</p> <p>Water Utility:          Water Supply System Name:          Water Supply System Well Name:</p> <p>Surface Seal Flag:          Surface Seal Material:          Surface Seal Method:          Surface Seal Depth: 0          Surface Seal Thickness:</p> <p>Lithology Info Flag:          Pump Test Info Flag:          File Info Flag:          Sieve Info Flag:          Screen Info Flag:          EMS ID:          Water Chemistry Info Flag:          Field Chemistry Info Flag:          Site Info (SEAM):          Site Info Details:          Other Info Flag:          Other Info Details:</p>
<p>GENERAL REMARKS:</p> <p>From 0 to 360 Ft. bedrock</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 52091</p> <p>Owner: DAN DOBSON</p> <p>Address: BILLETTER RD</p> <p>Area: SMITHERS</p> <p>WELL LOCATION:          COAST RANGE 5 Land District          District Lot: Plan: 10551 Lot: 1          Township: 4 Section: 28 Range: 5          Indian Reserve: Meridian: Block:          Quarter:          Island          BCGS Number (NAD 27): 093L075342 Well: 1</p> <p>Class of Well:          Subclass of Well:          Orientation of Well:          Status of Well: New          Well Use: Domestic          Observation Well Number:          Observation Well Status:          Construction Method: Drilled          Diameter: 6.0 inches          Well Depth: 300.0 feet          Elevation: 0          Bedrock Depth: 35 feet          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0          Screen from 0 to 0 feet Slot Size 0</p>	<p>Construction Date: 1983-04-30 00:00:00.</p> <p>Driller: Industrial Drillers          Well Identification Plate Number:          Plate Attached By:          Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:          Well Yield: 2 (Driller's Estimate)          Artesian Flow: 0          Static Level: feet</p> <p>Water Utility:          Water Supply System Name:          Water Supply System Well Name:</p> <p>Surface Seal Flag:          Surface Seal Material:          Surface Seal Method:          Surface Seal Depth: 0          Surface Seal Thickness:</p> <p>Lithology Info Flag:          Pump Test Info Flag:          File Info Flag:          Sieve Info Flag:          Screen Info Flag:          EMS ID:          Water Chemistry Info Flag:          Field Chemistry Info Flag:          Site Info (SEAM):          Site Info Details:          Other Info Flag:          Other Info Details:</p>
<p>GENERAL REMARKS:</p> <p>From 0 to 35 Ft. brown clay          From 35 to 300 Ft. bedrock</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 60630</p> <p>Owner: FRED MCLAUGHLIN</p> <p>Address: GLOVER ROAD</p> <p>Area: SMITHERS</p> <p>WELL LOCATION:          COAST RANGE 5 Land District          District Lot: Plan: 11140 Lot: 4          Township: 4 Section: 29 Range: 5          Indian Reserve: Meridian: Block:          Quarter:          Island          BCGS Number (NAD 27): 093L075342 Well: 13</p> <p>Class of Well:          Subclass of Well:          Orientation of Well:          Status of Well: New          Well Use: Domestic          Observation Well Number:          Observation Well Status:          Construction Method: Drilled          Diameter: 0.0 inches          Well Depth: 25.0 feet          Elevation: 0          Bedrock Depth: feet</p>	<p>Construction Date: 1994-08-29 00:00:00.0</p> <p>Driller: Triple D Drillers          Well Identification Plate Number:          Plate Attached By:          Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:          Well Yield: 30 (Driller's Estimate) l          Artesian Flow: 0          Static Level: 13 feet</p> <p>Water Utility:          Water Supply System Name:          Water Supply System Well Name:</p> <p>Surface Seal Flag:          Surface Seal Material:          Surface Seal Method:          Surface Seal Depth:          Surface Seal Thickness:</p> <p>Lithology Info Flag:          Pump Test Info Flag:          File Info Flag:          Sieve Info Flag:          Screen Info Flag:          EMS ID:          Water Chemistry Info Flag:          Field Chemistry Info Flag:          Site Info (SEAM):          Site Info Details:          Other Info Flag:          Other Info Details:</p>
<p>GENERAL REMARKS:          FRESH CLEAR WATER, NO GAS, NO COLOR, NO SMELL</p> <p>From 0 to 7 Ft. SAND          From 7 to 25 Ft. SAND AND GRAVEL          From 25 to 27 Ft. CLAY, WATER BEARING</p>	

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## Report 1 - Detailed Well Record

<p>Well Tag Number: 60631</p> <p>Owner: BUDDY QUANT</p> <p>Address: END OF GLOVER RD</p> <p>Area: SMITHERS</p> <p>WELL LOCATION:          COAST RANGE 5 Land District          District Lot: Plan: 6658 Lot: A          Township: 4 Section: 29 Range: 5          Indian Reserve: Meridian: Block:          Quarter:          Island          BCGS Number (NAD 27): 093L075342 Well: 11</p> <p>Class of Well:          Subclass of Well:          Orientation of Well:          Status of Well: New          Well Use: Domestic          Observation Well Number:          Observation Well Status:          Construction Method: Drilled          Diameter: 0.0 inches          Well Depth: 28.0 feet          Elevation: 0          Bedrock Depth: feet</p>	<p>Construction Date: 1994-08-29 00:00:00.0</p> <p>Driller: Triple D Drillers          Well Identification Plate Number:          Plate Attached By:          Where Plate Attached:</p> <p>PRODUCTION DATA AT TIME OF DRILLING:          Well Yield: 30 (Driller's Estimate) l          Artesian Flow: 0          Static Level: 9 feet</p> <p>Water Utility:          Water Supply System Name:          Water Supply System Well Name:</p> <p>Surface Seal Flag:          Surface Seal Material:          Surface Seal Method:          Surface Seal Depth:          Surface Seal Thickness:</p> <p>Lithology Info Flag:          Pump Test Info Flag:          File Info Flag:          Sieve Info Flag:          Screen Info Flag:          EMS ID:          Water Chemistry Info Flag:          Field Chemistry Info Flag:          Site Info (SEAM):          Site Info Details:          Other Info Flag:          Other Info Details:</p>
<p>GENERAL REMARKS:          FRESH, CHRYSTAL CLEAR WATER. NO SMELL, COLOR, OR GAS.</p> <p>From 0 to 4 Ft. CLAY, GRAVEL          From 4 to 28 Ft. SAND GRAVEL</p>	

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## APPENDIX D

### Best Practices For Land Management On Sloping Terrain



## Best Practices For Land Management On Sloping Terrain

*The following is a brief summary of general best management practices for owners of private property located on or around slopes that may be prone to ground movement or landslides. As geological and terrain conditions leading to ground movement are highly variable and site specific, the following is intended as a general guide only. Specific professional geotechnical engineering assessment and advice should be applied to individual circumstances.*

- **Seek Professional Advice:** Even small natural or artificial changes to the topography and drainage characteristics of a slope can have serious consequences for future stability of the ground. Prior to making any surface or drainage modifications to your property, constructing new structures or altering structures, seek the advice of a professional geotechnical engineer with specific experience in slope stability.
- **Watch & Observe the Terrain:** Pay close attention to the condition and possible changes in and around your property, particularly during or following significant precipitation or snow melt events. Watch for changes in drainage patterns, new areas of ponded water, springs where none existed before, changing water well levels, signs of stress, leaks or disruptions to utilities, areas of erosion, disturbed soil or vegetation, tilted trees, ground cracking, new ground depressions/settlements, and any signs of structural distress to buildings (new or widening cracks in foundations, floors, or walls; sticking doors and windows; uneven floors etc.). Do not ignore the potential hazard, report to local emergency agencies and/or seek professional advice if you note changes that you cannot confirm are caused by something other than ground movement.
- **Avoid Fills On Or Above A Slope:** Placement of any type of fill material will create additional weight which may serve to further load a slope and could trigger ground movements. Placement of fills can also block or re-direct surface and/or subsurface drainage, which can also destabilize a slope.
- **Avoid Excavation On Or Below A Slope:** Excavation of material from or below a slope can serve to artificially steepen and destabilize the slope and could trigger ground movements.
- **Do Not Disrupt Or Change Drainage Patterns:** Water plays a critical role in the stability of slopes. Activities that cause additional water to enter the ground in or around slope areas can weaken the ground and cause movement. In general, water should be diverted away from slopes and drained off of slopes in a controlled and well planned manner. Natural drainage courses should generally be maintained. Water should not be allowed to pond on or above a slope or be allowed to enter open cracks in the ground. Inadvertent concentration of surface run-off can also cause ground erosion and artificial steepening of slope sections which in turn could also trigger ground movements.
- **Do Not Add Water To The Ground:** In-ground septic fields, septic lagoons, ornamental ponds, irrigation ponds, swimming pools, dry wells, roof drain leader discharge, foundation drainage discharge and storm drainage discharge should not be located on or above slope areas. Irrigation above or on slope areas should be avoided. Water, sewer, and storm drainage lines should generally not cross potentially unstable slope areas and where they do, pipes should be equipped with leak mitigation features (double sleeving, automatic leak detection and shut off controls). Empty or artificially line ponded water areas.
- **Maintain Vegetation:** Vegetation serves to limit water infiltration, consumes water and protects the ground from erosion. Do not make any significant changes to the vegetation cover on a slope if the presence of such cover helps to maintain a slope in a stable condition. Promote accelerated revegetation if disturbance cannot be avoided. Do not plant varieties that require artificial irrigation.

## APPENDIX E

### References

## Geology

- Carter, N.C. & Kirkham, R.V.**, Geological Compilation Map of the Smithers, Hazelton, and Terrace Areas; British Columbia Department of Mines and Petroleum Resources, Map 69-1, 1969
- Clague, J.J.**, Quaternary Geology and Geomorphology, Smithers-Terrace-Prince Rupert Area, British Columbia; Geological Survey of Canada, Memoir 413, Map 1557A; 1984
- Tipper, H.W.**, Preliminary Interpretation of Glacial and Geomorphic Features of Smithers Map Area (93 L), British Columbia; Geological Survey of Canada, Open File 2837, 1994
- Tipper, H.W.**, Smithers B.C. (93 L); Geological Survey of Canada, Open File 351, 1976
- Tipper, H.W.**, Glacial Geomorphology and Pleistocene History of Central British Columbia; Geological Survey of Canada, Bulletin 196, 1971
- Ryan, B.D.**, Geology of the Telkwa Coal Field, British Columbia (NTS 93L/11,14); Geological Survey Branch, Ministry of Energy Mines and Petroleum Resources, Open File 1993-21, 1993

## Water Well Data

Land Info BC – Ministry of Sustainable Resource Management  
<http://srmwww.gov.bc.ca/q/makeamap.html>

Water Well Database – Ministry of Environment  
<http://aardvark.gov.bc.ca/apps/wells>

BC Water Resources Atlas – Ministry of Environment  
<http://srmapps.gov.bc.ca/apps/wrbc>

## Air Photography

- 1949: BC1020: 2-3  
1955: BC2110: 7-9  
1959: BC2689: 102-104  
BC2690: 9-10  
1973 BC5554: 18-20  
1975 BC7748: 134-136  
1983 BC83062: 70-73  
1992: BCB92069: 64-65  
BCB92084: 15-18  
1993: BCC93014: 166-168  
2003: Digital Orthophoto supplied by Bulkley Nechako Regional District

Bag 5000  
Smithers, B.C.  
VOJ 2NO  
847-7403

November 23, 1989

**CONFIDENTIAL**

Holger Burke,  
Director of Planning,  
Regional District of  
Bulkley Nechako,  
Box 820,  
Burns Lake, B.C.

Dear Mr. Burke:

**RE: [REDACTED]**

The Ministry of Transportation and Highways has identified a land subsidence area as noted on the attached map. The area affects adjacent residences more so than the highway.

Although this area has been specifically identified, the Ministry is continuing to monitor the full length of Viewmount Road for other possible subsidence areas.

Habitat has been rapidly growing along the bench area and may have some impact on overall stability due to changed drainage patterns and increased water deposition from household uses. The full extent is not known and it is not within this Ministry's mandate to undertake a full analysis.

A detailed report will be forwarded to you for your review as soon as completed and I would like to offer our co-operation where we can be of assistance should you require it.

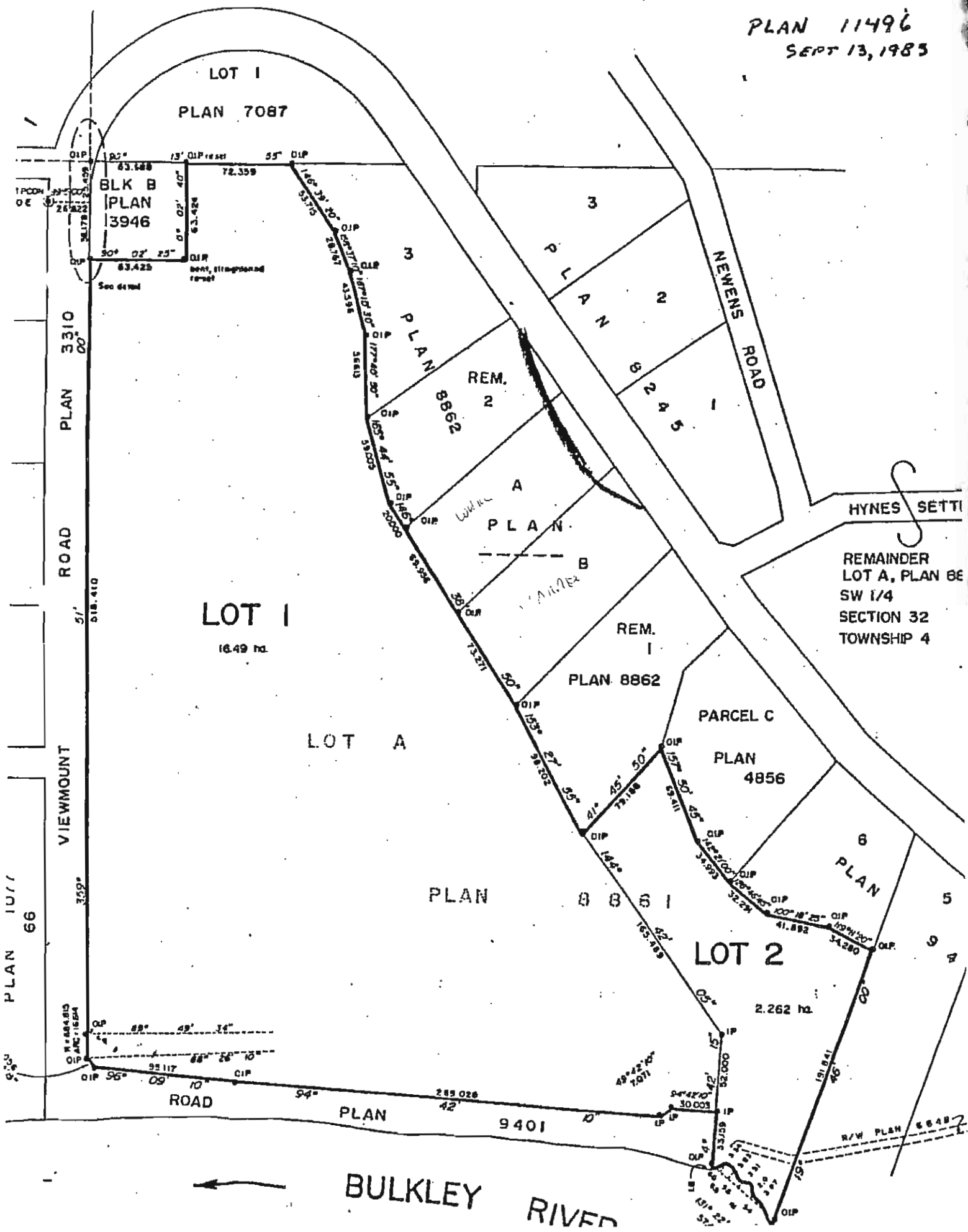
Yours truly,

L. Kelly P. Eng.  
District Highways Manager  
Bulkley Nass

LK/lf



PLAN 11496  
SEPT 13, 1985



LOT 1  
PLAN 7087

BLK B  
PLAN  
13946

LOT 1  
16.49 ha.

LOT A

PLAN 8862

PARCEL C  
PLAN  
4856

LOT 2  
2.262 ha.

PLAN 8861

PLAN 9401

BULKLEY RIVER

NEMENS ROAD

ROAD  
PLAN 3310

VIEWMOUNT

PLAN 1077  
66

HYNES SETTL

REMAINDER  
LOT A, PLAN 88  
SW 1/4  
SECTION 32  
TOWNSHIP 4

PLAN 8

PLAN 5  
9  
4

R/W PLAN 86487