418000 418500 419000

6890000

N

Shoreline Elevation 237 m

235.5
235
236
236.5

235
236.5
235.5

Shoreline Elevation 237 m

236

233 232.5
234
231.9 m
233.5
234.5
235

235.5

235.5

235.5

BATHYMETRY
- Deepest Point
- Shoreline
- Contour 0.5 m

0 25 50 75 100
Meters
Projection: UTM 12, NAD83

Water Quality Statistics	
	Mean (Range)
n	5
Conductivity (µS/cm)	228 (164 - 306)
Hardness (as CaCO3) (mg/L)	123 (7.60 - 8.08)
pH	7.84 (7.60 - 8.08)
Dissolved Oxygen (mg/L)	7.13 (0.34 - 12.48)
Total Dissolved Solids (mg/L)	175 (141 - 233)
Ammonia as N (mg/L)	0.406 (0.022 - 1.510)
Total Phosphate as P (mg/L)	0.030 (0.026 - 0.034)

Lake Statistics		
Maximum Depth		5.1 m
Total Surface Area		158,200 m^2
Littoral (<2 m) Area	86%	136,622 m^2
Deep (>8m) Area	0%	0 m^2
Lake Volume		214,609 m^3

418000 418500 419000

Thor Lake Rare Earth Metals Project

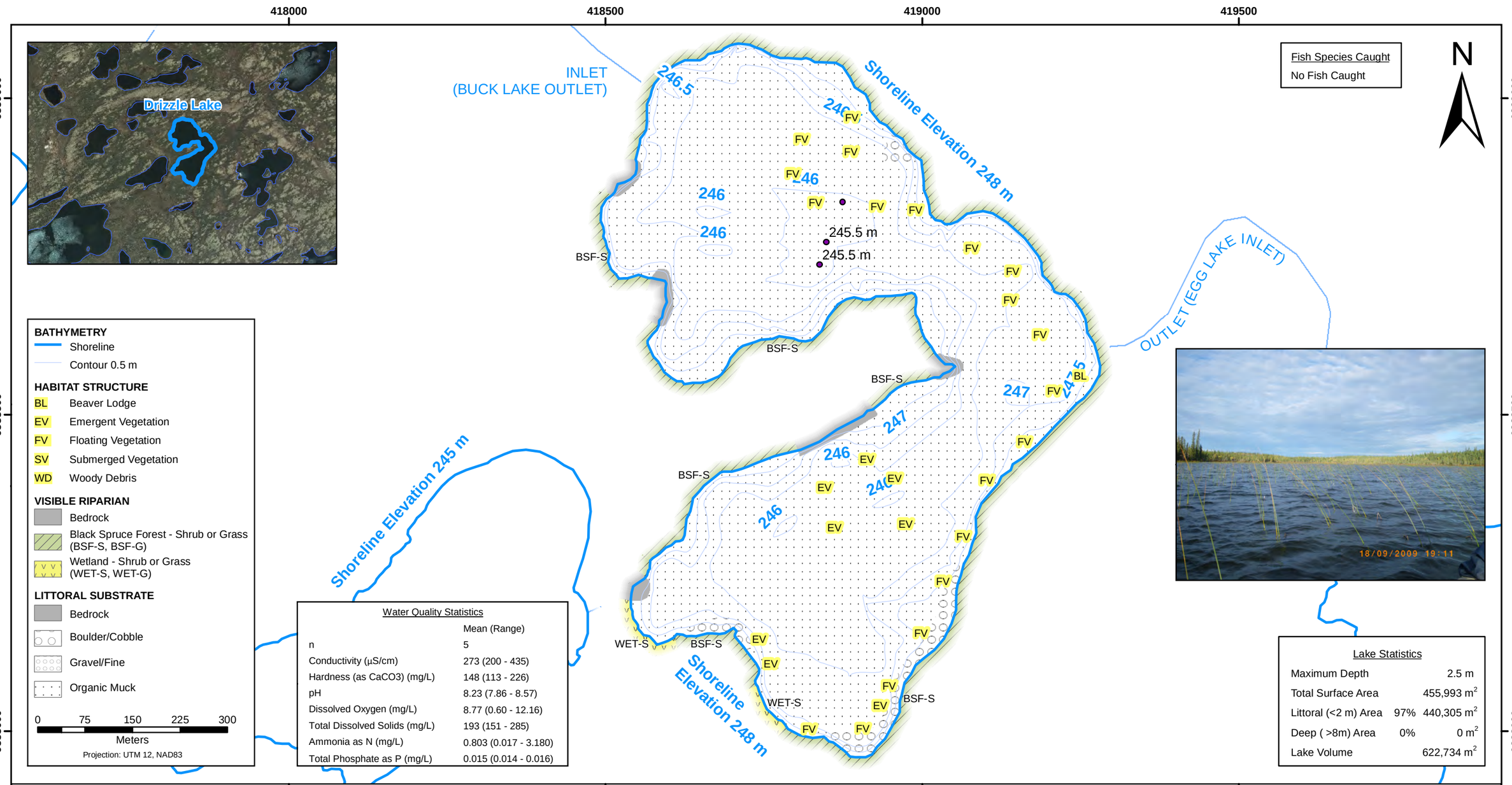
DINOSAUR LAKE BATHYMETRY

Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE	SCALE	
10/09/2009	1:3,000	
REVISION DATE 22/12/2010	PROJECT	FIGURE NO. 9
DRAWN LF / CHECKED SN / APPROVED NL	VOL	



Water Quality Statistics

	Mean (Range)
n	5
Conductivity (µS/cm)	273 (200 - 435)
Hardness (as CaCO3) (mg/L)	148 (113 - 226)
pH	8.23 (7.86 - 8.57)
Dissolved Oxygen (mg/L)	8.77 (0.60 - 12.16)
Total Dissolved Solids (mg/L)	193 (151 - 285)
Ammonia as N (mg/L)	0.803 (0.017 - 3.180)
Total Phosphate as P (mg/L)	0.015 (0.014 - 0.016)

Lake Statistics

Maximum Depth		2.5 m
Total Surface Area		455,993 m^2
Littoral (<2 m) Area	97%	440,305 m^2
Deep (>8m) Area	0%	0 m^2
Lake Volume		622,734 m^2

Thor Lake Rare Earth Metals Project

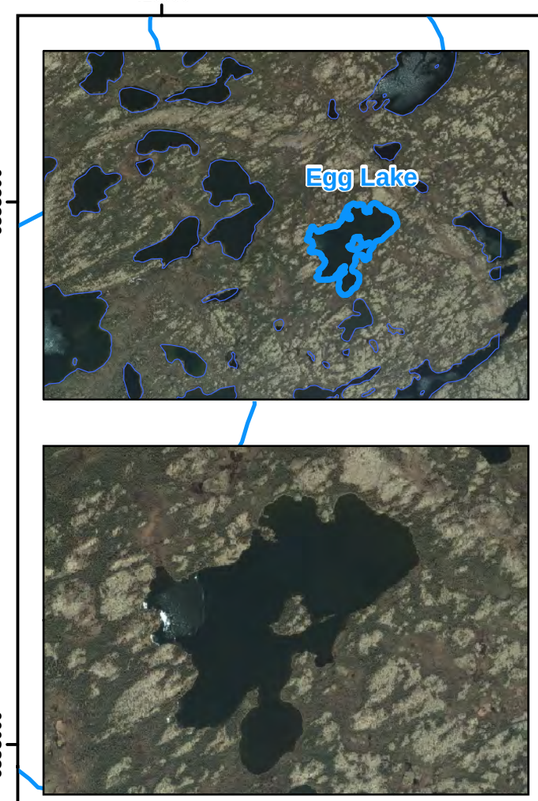
DRIZZLE LAKE HABITAT

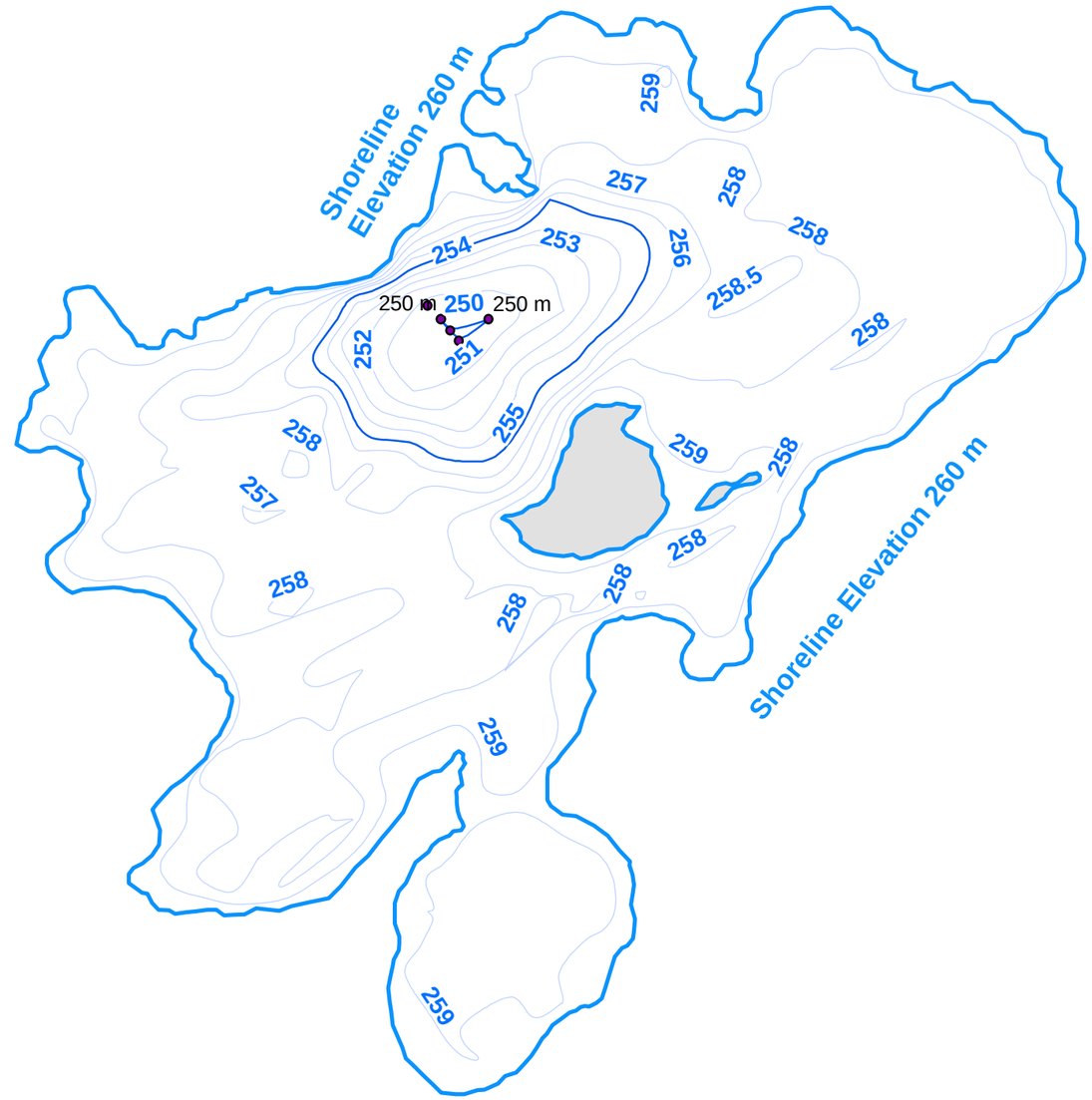
Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE 10/09/2009		SCALE 1:6,000	
REVISION DATE 16/12/2010		PROJECT	FIGURE NO. 10
DRAWN LF	CHECKED SN	APPROVED NL	VOL





Water Quality Statistics	
	Mean (Range)
n	5
Conductivity (µS/cm)	211 (169 - 267)
Hardness (as CaCO3) (mg/L)	112 (91 - 144)
pH	7.97 (7.75 - 8.16)
Dissolved Oxygen (mg/L)	6.63 (0.33 - 12.35)
Total Dissolved Solids (mg/L)	149 (125 - 193)
Ammonia as N (mg/L)	0.326 (0.036 - 1.080)
Total Phosphate as P (mg/L)	0.012 (0.010 - 0.021)

Lake Statistics		
Maximum Depth		10 m
Total Surface Area		453,603 m^2
Littoral (<2 m) Area	64%	288,113 m^2
Deep (>8m) Area	8%	14,800 m^2
Total Volume		1,015,593 m^3

BATHYMETRY
- Deepest Point
- Shoreline
- Contour 1 m
- Contour 5 m
- Island

0 50 100 150 200
Meters
Projection: UTM 12, NAD83

Thor Lake Rare Earth Metals Project

EGG LAKE BATHYMETRY

Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE	SCALE	
27/07/2010	1:5,500	
REVISION DATE 22/12/2010	PROJECT	FIGURE NO. 11
DRAWN LF / CHECKED SN / APPROVED NL	VOL	

BATHYMETRY
- Deepest Point
- Shoreline
- Contour 1 m

HABITAT STRUCTURE
- BL Beaver Lodge
- EV Emergent Vegetation
- FV Floating Vegetation
- SV Submerged Vegetation
- WD Woody Debris

VISIBLE RIPARIAN
- Bedrock
- Black Spruce Forest - Shrub or Grass (BSF-S, BSF-G)
- Wetland - Shrub or Grass (WET-S, WET-G)

LITTORAL SUBSTRATE
- Bedrock
- Boulder/Cobble
- Gravel/Fine
- Organic Muck

0 25 50 75 100
Meters
Projection: UTM 12, NAD83

Fish Species Caught
Lake Cisco
Lake Whitefish
Northern Pike

N

415500 416000 6887000

Shoreline Elevation 233 m
Shoreline Elevation 233 m
Shoreline Elevation 234 m
FRED LAKE OUTLET
INLET (THOR LAKE OUTLET)
BSF-S
WET-S
WET-G
FV
231.1 m
231 m
232 m

Water Quality Statistics

	Mean (Range)
n	5
Conductivity (µS/cm)	333 (268 - 401)
Hardness (as CaCO3) (mg/L)	182 (149 - 219)
pH	7.89 (7.07 - 8.33)
Dissolved Oxygen (mg/L)	7.36 (3.31 - 11.47)
Total Dissolved Solids (mg/L)	207 (166 - 249)
Ammonia as N (mg/L)	0.186 (0.010 - 0.698)
Total Phosphate as P (mg/L)	0.008 (0.005 - 0.011)

Lake Statistics

Maximum Depth		1.9 m
Total Surface Area		49,499 m^2
Littoral (<2 m) Area	100%	49,499 m^2
Deep (>8 m) Area	0%	0 m^2
Lake Volume		39,940 m^3

Thor Lake Rare Earth Metals Project

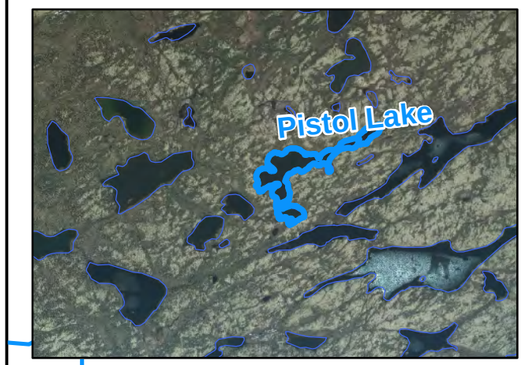
FRED LAKE HABITAT

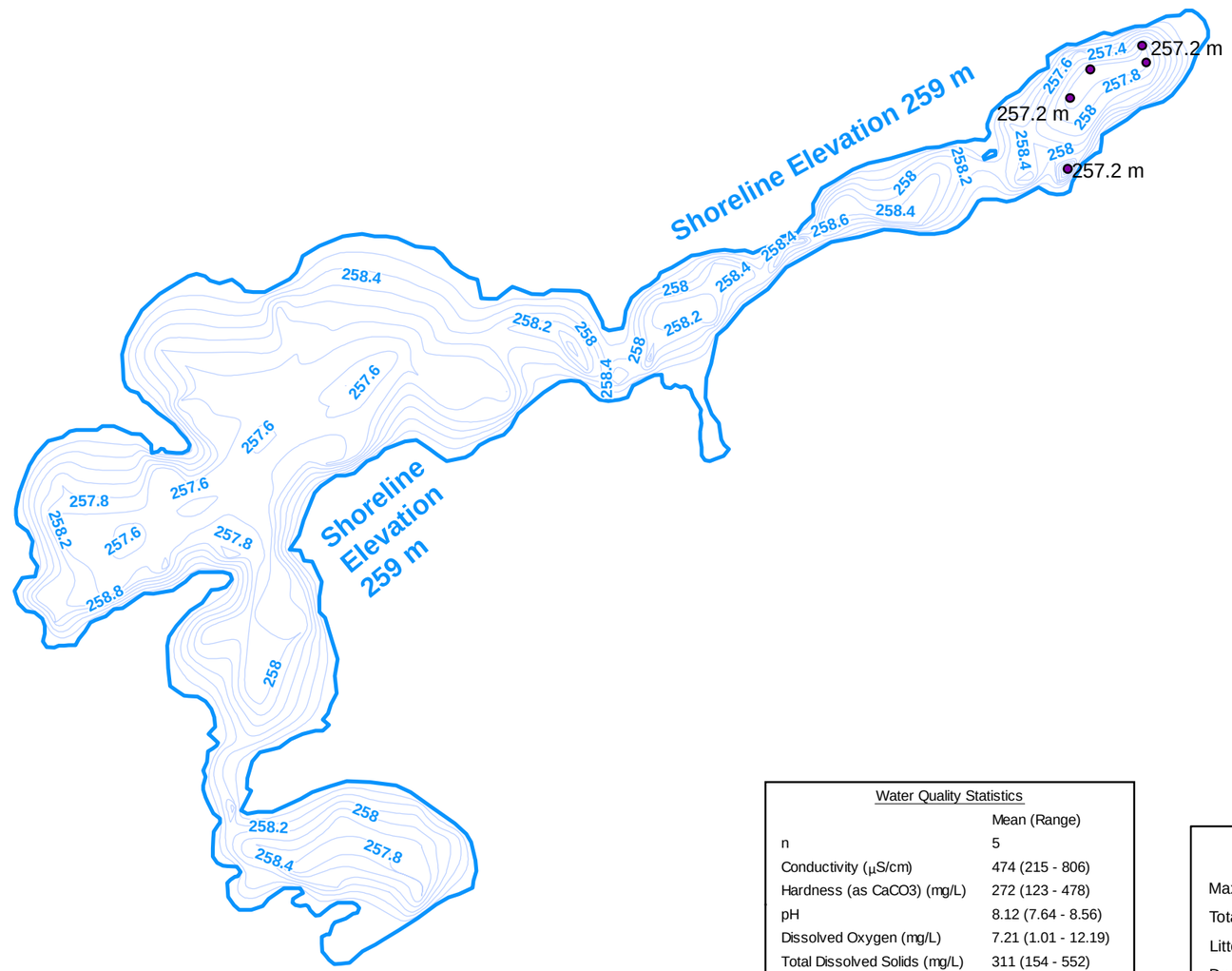
Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE 27/07/2010		SCALE 1:2,000	
REVISION DATE 21/12/2010		PROJECT	FIGURE NO. 12
DRAWN LF	CHECKED SN	APPROVED NL	VOL





BATHYMETRY
- Deepest Point
- Shoreline
- Contour 0.2 m

0 40 80 120 160
Meters
Projection: UTM 12, NAD83

Water Quality Statistics

	Mean (Range)
n	5
Conductivity (µS/cm)	474 (215 - 806)
Hardness (as CaCO3) (mg/L)	272 (123 - 478)
pH	8.12 (7.64 - 8.56)
Dissolved Oxygen (mg/L)	7.21 (1.01 - 12.19)
Total Dissolved Solids (mg/L)	311 (154 - 552)
Ammonia as N (mg/L)	1.344 (0.059 - 4.510)
Total Phosphate as P (mg/L)	0.013 (0.007 - 0.026)

Lake Statistics

Maximum Depth		1.8 m
Total Surface Area		170,933 m^2
Littoral (<2 m) Area	100%	170,933 m^2
Deep (>8m) Area	0%	0 m^2
Lake Volume		129,289 m^3

Thor Lake Rare Earth Metals Project

PISTOL LAKE BATHYMETRY

Area of Detail

AVALON RARE METALS INC.

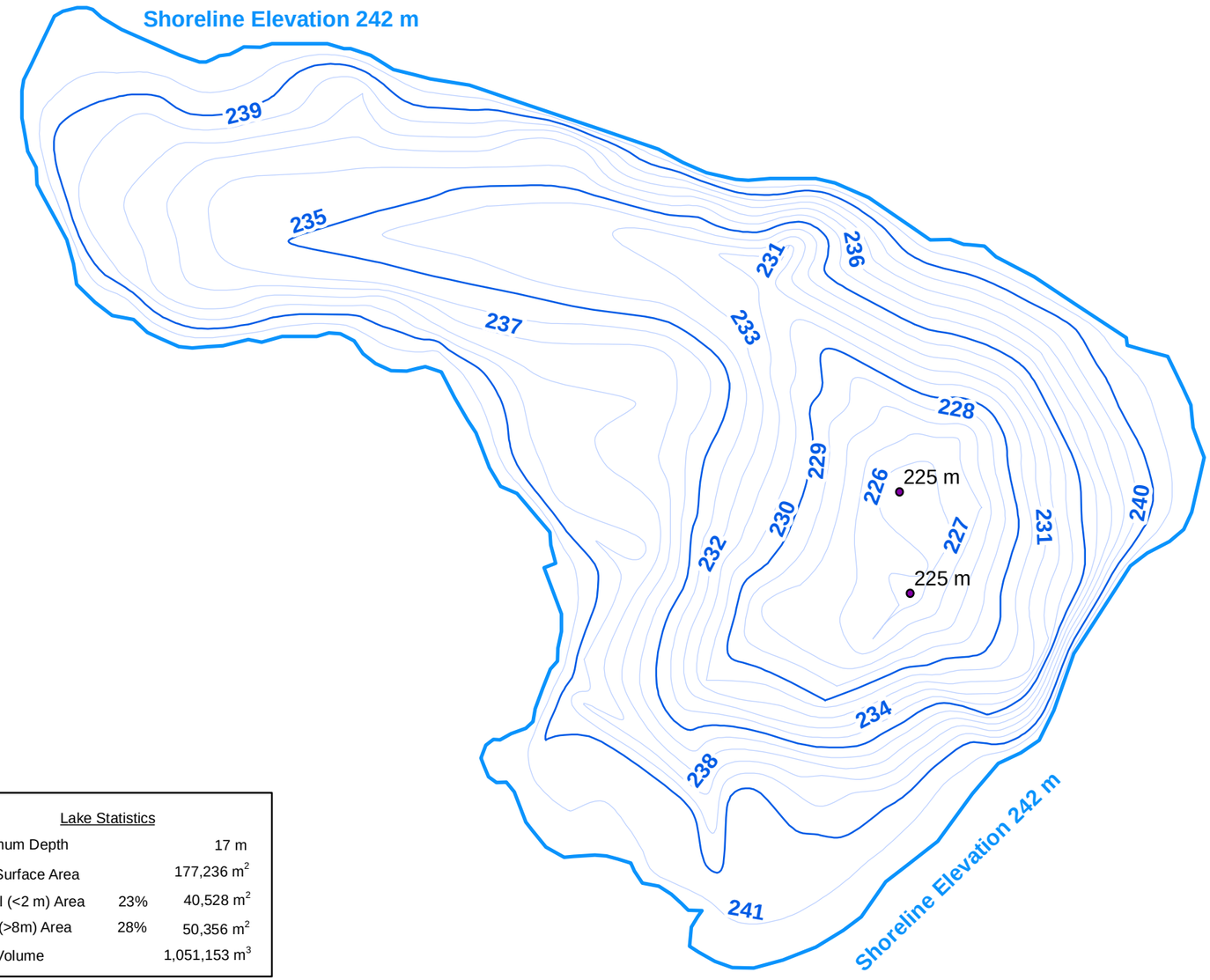
PREPARED BY Stantec

DRAFT DATE	SCALE
10/09/2009	1:5,000
REVISION DATE 22/12/2010	PROJECT
DRAWN LF / CHECKED SN / APPROVED NL	VOL

FIGURE NO. 13

418000 418500

6885500



BATHYMETRY

- Deepest Point
- Shoreline
- Contour 1 m
- Contour 5 m

0 20 40 60 80
Meters
Projection: UTM 12, NAD83

Water Quality Statistics

	Mean (Range)
n	5
Conductivity (µS/cm)	259 (239 - 285)
Hardness (as CaCO3) (mg/L)	144 (133 - 155)
pH	8.11 (7.93 - 8.28)
Dissolved Oxygen (mg/L)	9.36 (8.23 - 11.25)
Total Dissolved Solids (mg/L)	159 (151 - 176)
Ammonia as N (mg/L)	0.019 (0.010 - 0.033)
Total Phosphate as P (mg/L)	0.007 (0.005 - 0.009)

Lake Statistics

Maximum Depth		17 m
Total Surface Area		177,236 m^2
Littoral (<2 m) Area	23%	40,528 m^2
Deep (>8m) Area	28%	50,356 m^2
Lake Volume		1,051,153 m^3

418000 418500

Thor Lake Rare Earth Metals Project

PORK CHOP LAKE BATHYMETRY

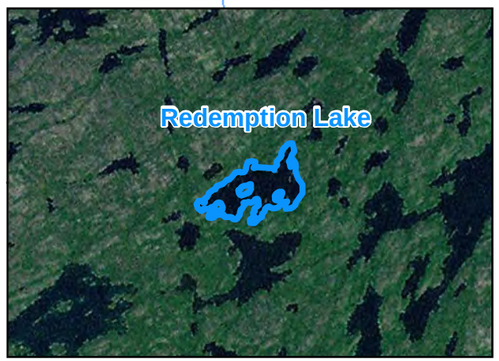
Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE	SCALE
10/09/2009	1:3,000
REVISION DATE 22/12/2010	PROJECT
DRAWN LF / CHECKED SN / APPROVED NL	VOL

FIGURE NO. 14



Water Quality Statistics	
	Mean (Range)
n	5
Conductivity (µS/cm)	170 (160 - 186)
Hardness (as CaCO3) (mg/L)	91 (86 - 99)
pH	7.76 (7.28 - 8.04)
Dissolved Oxygen (mg/L)	8.20 (4.95 - 9.78)
Total Dissolved Solids (mg/L)	111 (102 - 118)
Ammonia as N (mg/L)	0.012 (0.005 - 0.031)
Total Phosphate as P (mg/L)	0.020 (0.015 - 0.026)

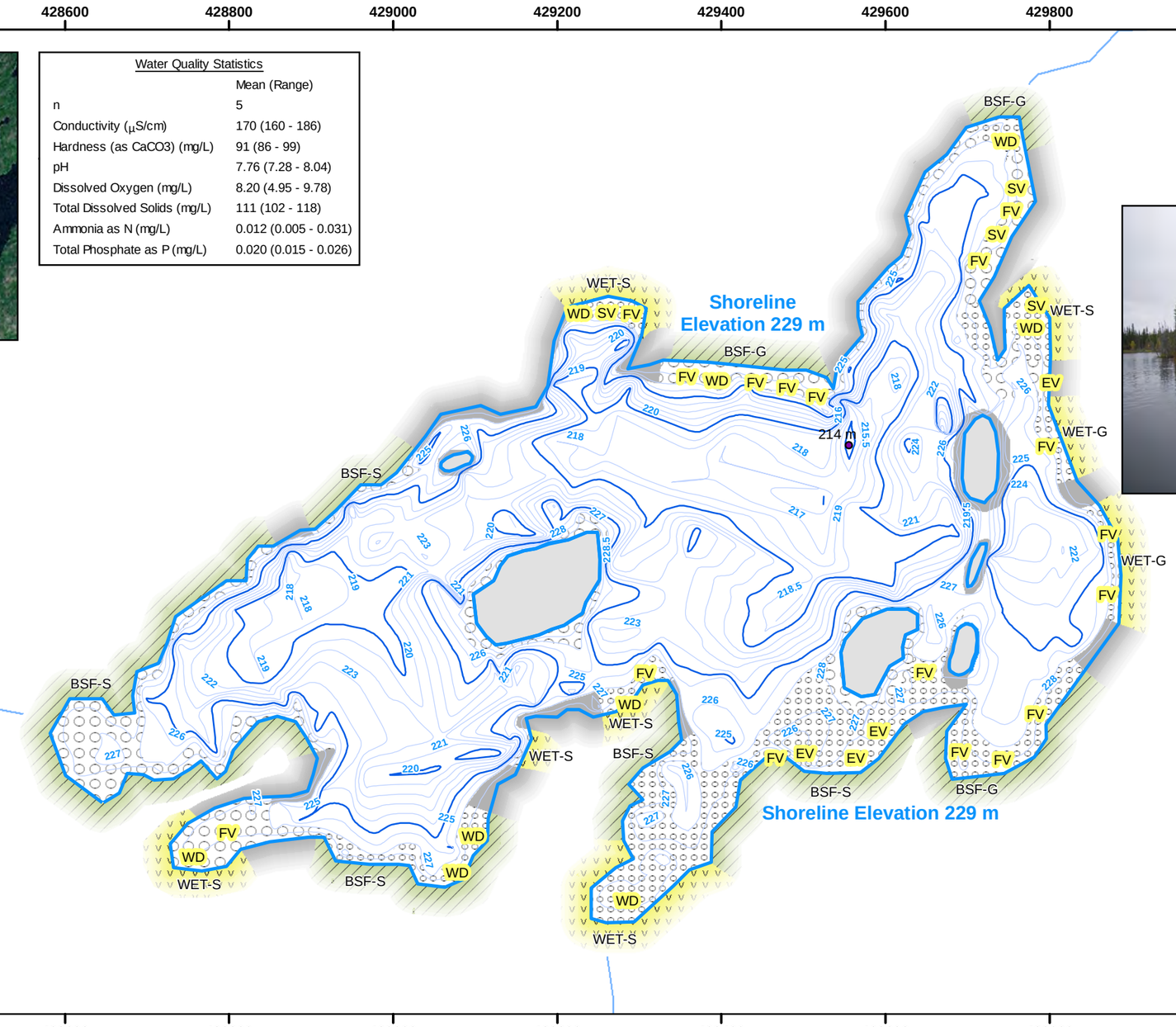
BATHYMETRY
- Deepest Point
- Shoreline
- Contour 1 m
- Contour 5 m
- Island

HABITAT STRUCTURE
- BL Beaver Lodge
- EV Emergent Vegetation
- FV Floating Vegetation
- SV Submerged Vegetation
- WD Woody Debris

VISIBLE RIPARIAN
- Bedrock
- Black Spruce Forest - Shrub or Grass (BSF-S, BSF-G)
- Wetland - Shrub or Grass (WET-S, WET-G)

LITTORAL SUBSTRATE
- Bedrock
- Boulder/Cobble
- Gravel/Fine
- Organic Muck

0 75 150 225 300
Meters
Projection: UTM 12, NAD83



Fish Species Caught
Lake Cisco
Lake Whitefish
Ninespine Stickleback
Northern Pike
Slimy Sculpin

Lake Statistics		
Maximum Depth		15 m
Total Surface Area		553,309 m^2
Littoral (<2 m) Area	1.3%	143,256 m^2
Deep (>8m) Area	21%	114,089 m^2
Lake Volume		2,795,944 m^3

Thor Lake Rare Earth Metals Project

REDEMPTION LAKE HABITAT

Area of Detail

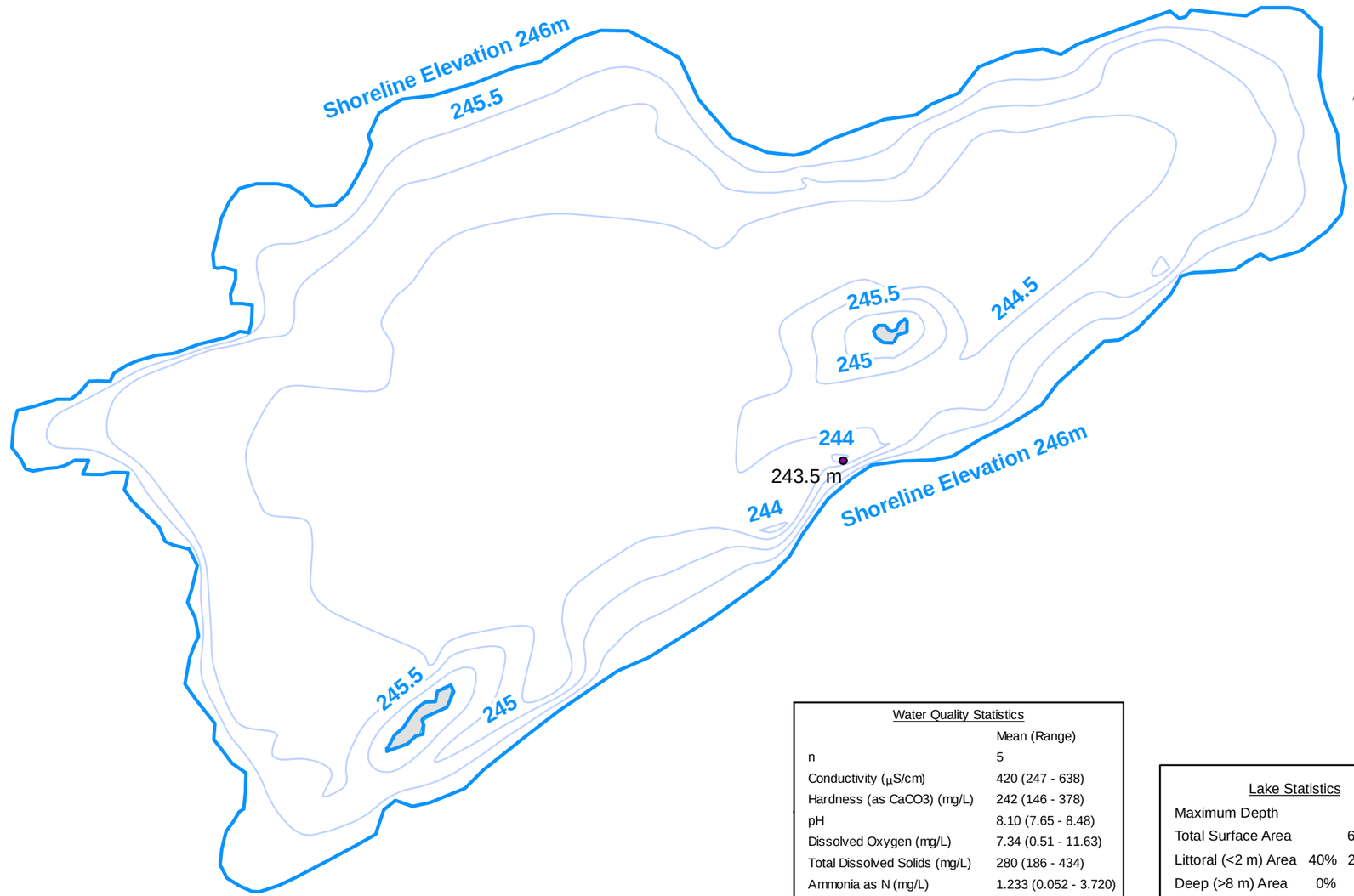
AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE	SCALE
10/09/2009	1:6,000
REVISION DATE 22/12/2010	PROJECT / FIGURE NO. 15
DRAWN LF / CHECKED SN / APPROVED NL	VOL

418000 418500

6886500



BATHYMETRY
- Deepest Point
- Shoreline
- Contour 0.5 m
- Island

0 25 50 75 100
Meters
Projection: UTM 12, NAD83

Water Quality Statistics

	Mean (Range)
n	5
Conductivity (µS/cm)	420 (247 - 638)
Hardness (as CaCO3) (mg/L)	242 (146 - 378)
pH	8.10 (7.65 - 8.48)
Dissolved Oxygen (mg/L)	7.34 (0.51 - 11.63)
Total Dissolved Solids (mg/L)	280 (186 - 434)
Ammonia as N (mg/L)	1.233 (0.052 - 3.720)
Total Phosphate as P (mg/L)	0.038 (0.010 - 0.123)

Lake Statistics

Maximum Depth		2.5 m
Total Surface Area		64,366 m^2
Littoral (<2 m) Area	40%	25,672 m^2
Deep (>8 m) Area	0%	0 m^2
Lake Volume		211,756 m^3

418000 418500

Thor Lake Rare Earth Metals Project

WASP LAKE BATHYMETRY

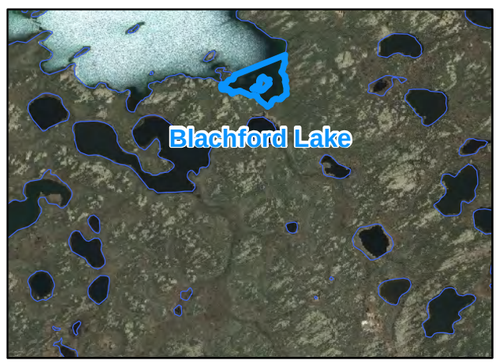
Area of Detail

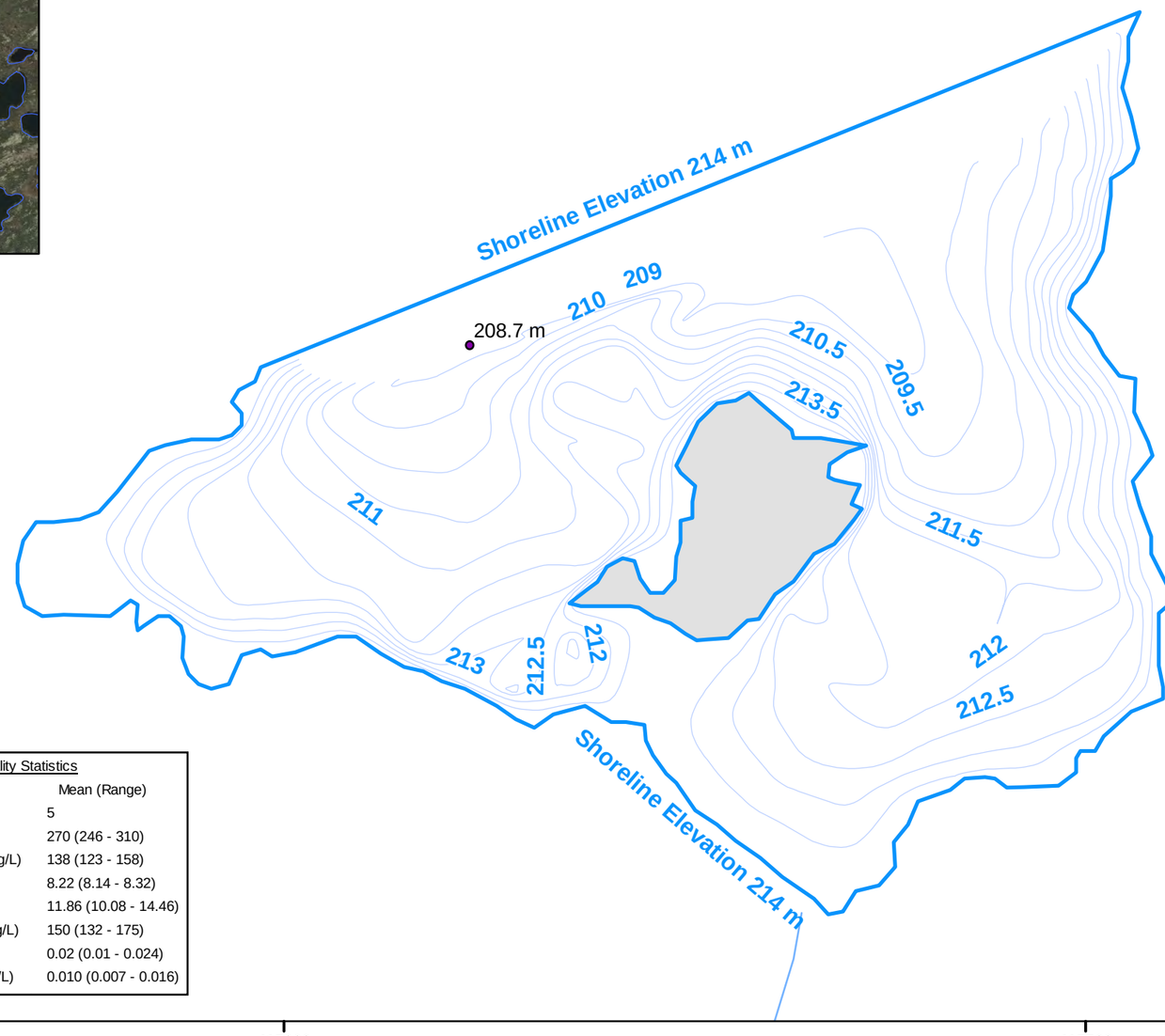
AVALON RARE METALS INC.

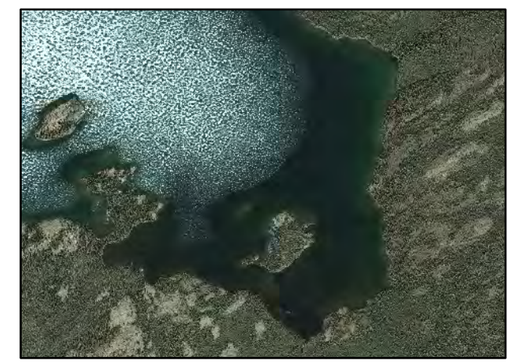
PREPARED BY Stantec

DRAFT DATE	SCALE
10/09/2009	1:3,000
REVISION DATE 22/12/2010	PROJECT
DRAWN LF / CHECKED SN / APPROVED NL	VOL

FIGURE NO. 16







BATHYMETRY

- Deepest Point
- Shoreline
- Contour 0.5 m
- Island

0 25 50 75 100
Meters
Projection: UTM 12, NAD83

Water Quality Statistics

	Mean (Range)
n	5
Conductivity (µS/cm)	270 (246 - 310)
Hardness (as CaCO3) (mg/L)	138 (123 - 158)
pH	8.22 (8.14 - 8.32)
Dissolved Oxygen (mg/L)	11.86 (10.08 - 14.46)
Total Dissolved Solids (mg/L)	150 (132 - 175)
Ammonia as N (mg/L)	0.02 (0.01 - 0.024)
Total Phosphate as P (mg/L)	0.010 (0.007 - 0.016)

Lake Statistics

Maximum Depth	5.3 m
Total Surface Area	-
Littoral (<2 m) Area	-
Deep (>8m) Area	-
Lake Volume	-

Thor Lake Rare Earth Metals Project

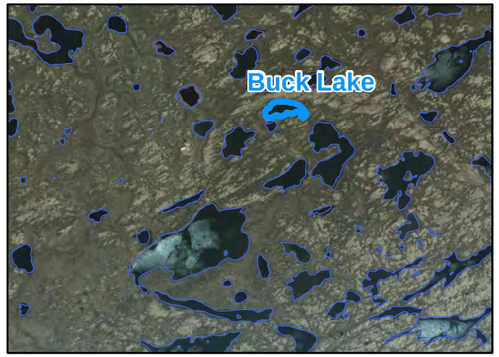
BLACHFORD LAKE BATHYMETRY

Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE	SCALE
10/09/2009	1:3,500
REVISION DATE 22/12/2010	PROJECT
DRAWN LF / CHECKED SN / APPROVED NL	VOL
	FIGURE NO. 17

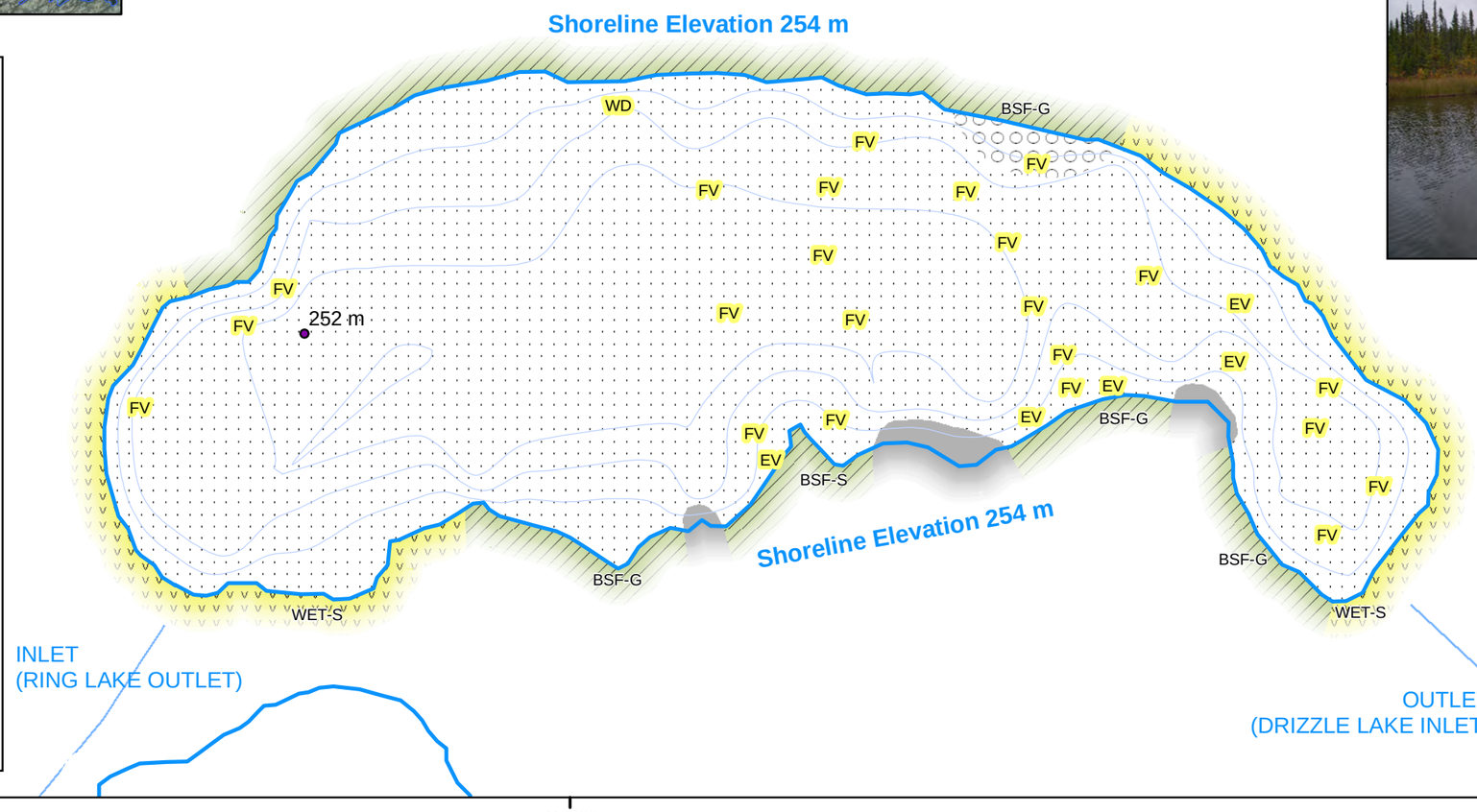


Water Quality Statistics	Mean (Range)
n	5
Conductivity (µS/cm)	263 (192 - 441)
Hardness (as CaCO3) (mg/L)	150 (112 - 245)
pH	8.11 (7.68 - 8.28)
Dissolved Oxygen (mg/L)	8.68 (1.13 - 12.10)
Total Dissolved Solids (mg/L)	201 (153 - 318)
Ammonia as N (mg/L)	0.807 (0.014 - 2.890)
Total Phosphate as P (mg/L)	0.021 (0.018 - 0.024)

Fish Species Caught

No Fish Caught

N



BATHYMETRY

- Shoreline
- Contour 1 m
- Contour 5 m

HABITAT STRUCTURE

- BL Beaver Lodge
- EV Emergent Vegetation
- FV Floating Vegetation
- SV Submerged Vegetation
- WD Woody Debris

VISIBLE RIPARIAN

- Bedrock
- Black Spruce Forest - Shrub or Grass (BSF-S, BSF-G)
- Wetland - Shrub or Grass (WET-S, WET-G)

LITTORAL SUBSTRATE

- Bedrock
- Boulder/Cobble
- Gravel/Fine
- Organic Muck

0 40 80 120 160
Meters
Projection: UTM 12, NAD83

Lake Statistics		
Maximum Depth		2 m
Total Surface Area		122,766 m^2
Littoral (<2 m) Area	100%	122,766 m^2
Deep (>8m)	0%	0 m^2
Lake Volume		137,403 m^3

Thor Lake Rare Earth Metals Project

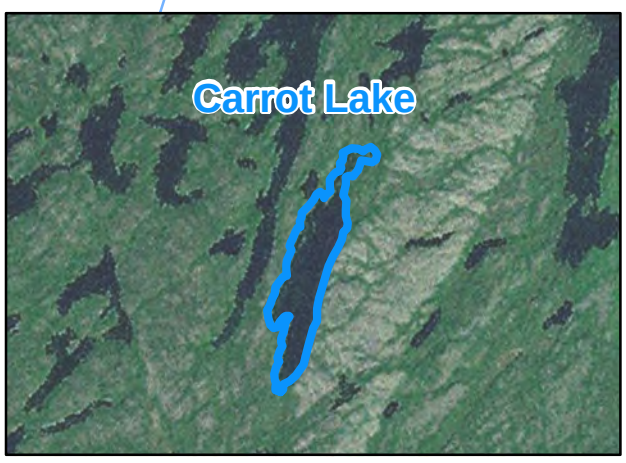
BUCK LAKE HABITAT

Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE	SCALE	
10/09/2009	1:3,000	
REVISION DATE 16/12/2010	PROJECT	FIGURE NO. 18
DRAWN LF / CHECKED SN / APPROVED NL	VOL	



N

Shoreline Elevation 233 m

197 m

BATHYMETRY

- Deepest Point
- Shoreline
- Contour 1 m
- Contour 5 m

0 50 100 150 200
Meters

Projection: UTM 12, NAD83

Lake Statistics

Maximum Depth		36 m
Total Surface Area		735,563 m^2
Littoral (<2 m) Area	23%	165,066 m^2
Deep Area (>8m) Area	49%	356,784 m^2
Lake Volume		8,293,170 m^3

Thor Lake Rare Earth Metals Project

CARROT LAKE BATHYMETRY

Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE	SCALE	
10/09/2009	1:6,500	
REVISION DATE 22/12/2010	PROJECT	FIGURE NO. 19
DRAWN LF / CHECKED SN / APPROVED NL	VOL	

413500 414000

6882500

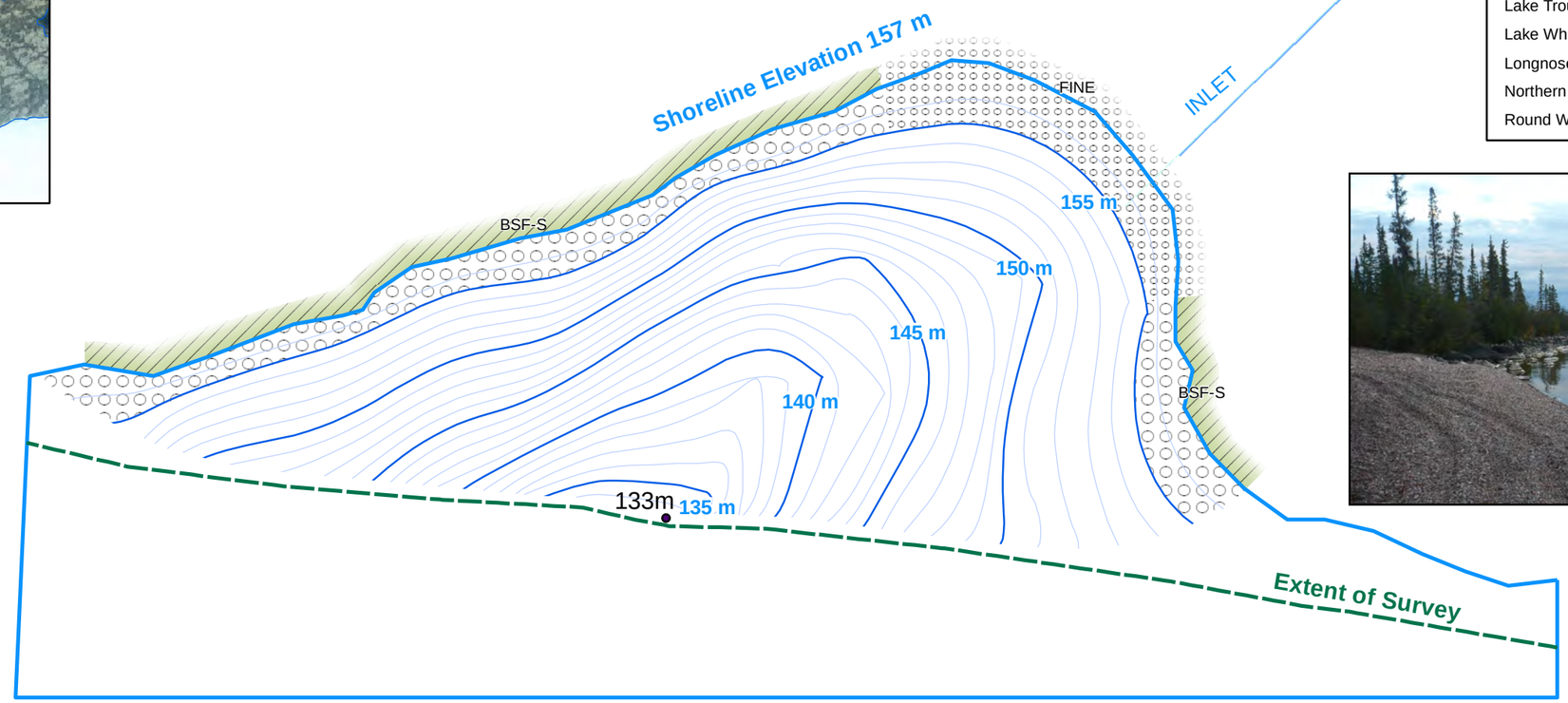
BATHYMETRY
- Deepest Point
- Shoreline
- Contour 1 m
- Contour 5 m

HABITAT STRUCTURE
- BL Beaver Lodge
- EV Emergent Vegetation
- FV Floating Vegetation
- SV Submerged Vegetation
- WD Woody Debris

VISIBLE RIPARIAN
- Bedrock
- Black Spruce Forest - Shrub or Grass (BSF-S, BSF-G)
- Wetland - Shrub or Grass (WET-S, WET-G)

LITTORAL SUBSTRATE
- Bedrock
- Boulder/Cobble
- Gravel/Fine
- Organic Muck

0 25 50 75 100
Meters
Projection: UTM 12, NAD83



Fish Species Caught
- Arctic Grayling
- Burbot
- Lake Cisco
- Lake Trout
- Lake Whitefish
- Longnose Sucker
- Northern Pike
- Round Whitefish

N

Water Quality Statistics

	Mean (Range)
n	4
Conductivity (µS/cm)	190 (171 - 207)
Hardness (as CaCO3) (mg/L)	86 (74 - 97)
pH	8.00 (7.76 - 8.17)
Dissolved Oxygen (mg/L)	12.15 (10.91 - 13.55)
Total Dissolved Solids (mg/L)	110 (97 - 125)
Ammonia as N (mg/L)	0.013 (0.010 - 0.021)
Total Phosphate as P (mg/L)	0.004 (0.003 - 0.005)

Lake Statistics

Maximum Depth Surveyed	24m
Total Surface Area	-
Littoral (<2 m) Area	-
Deep (>8m)	-
Lake Volume	-

413500 414000

Thor Lake Rare Earth Metals Project

GREAT SLAVE LAKE HABITAT

Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE	SCALE
27\07\2010	1:2,000
REVISION DATE 21\12\2010	PROJECT
DRAWN LF / CHECKED SN / APPROVED NL	VOL

FIGURE NO. 20

Water Quality Statistics

	Mean (Range)
n	5
Conductivity (µS/cm)	186 (176 - 197)
Hardness (as CaCO3) (mg/L)	95 (89 - 103)
pH	8.01 (7.82 - 8.17)
Dissolved Oxygen (mg/L)	9.42 (7.62 - 11.48)
Total Dissolved Solids (mg/L)	107 (99 - 117)
Ammonia as N (mg/L)	0.012 (0.006 - 0.020)
Total Phosphate as P (mg/L)	0.008 (0.005 - 0.017)

Fish Species Caught

- Lake Chub
- Lake Cisco
- Northern Pike
- Slimy Sculpin

N

BATHYMETRY

- Deepest Point
- Shoreline
- Contour 1 m
- Contour 5 m

HABITAT STRUCTURE

- BL Beaver Lodge
- EV Emergent Vegetation
- FV Floating Vegetation
- SV Submerged Vegetation
- WD Woody Debris

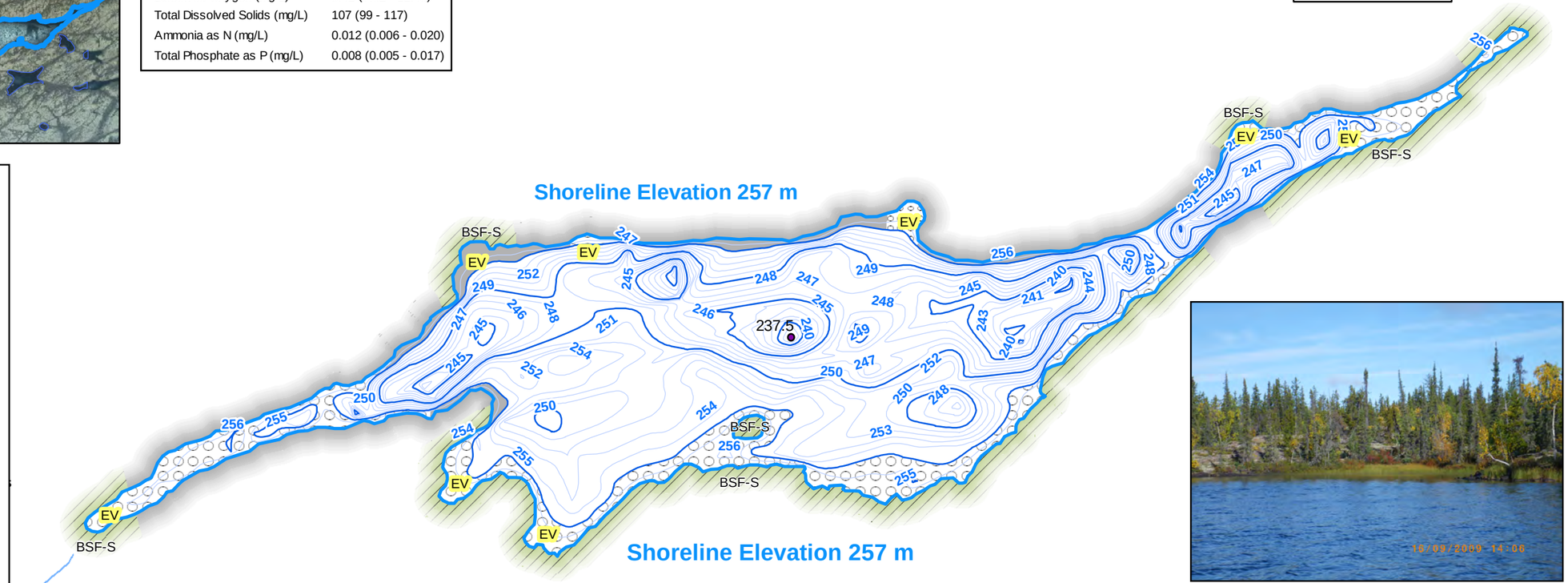
VISIBLE RIPARIAN

- Bedrock
- Wetland - Shrub or Grass (WET-S, WET-G)

LITTORAL SUBSTRATE

- Bedrock
- Boulder/Cobble
- Gravel/Fine
- Organic Muck

0 90 180 270 360
Meters
Projection: UTM 12, NAD83



Lake Statistics

Maximum Depth		19m
Total Surface Area		395,796 m^2
Littoral (<2 m) Area	21%	84,312 m^2
Deep (>8m) Area	25%	100,353 m^2
Lake Volume		2,251,342 m^3

Thor Lake Rare Earth Metals Project

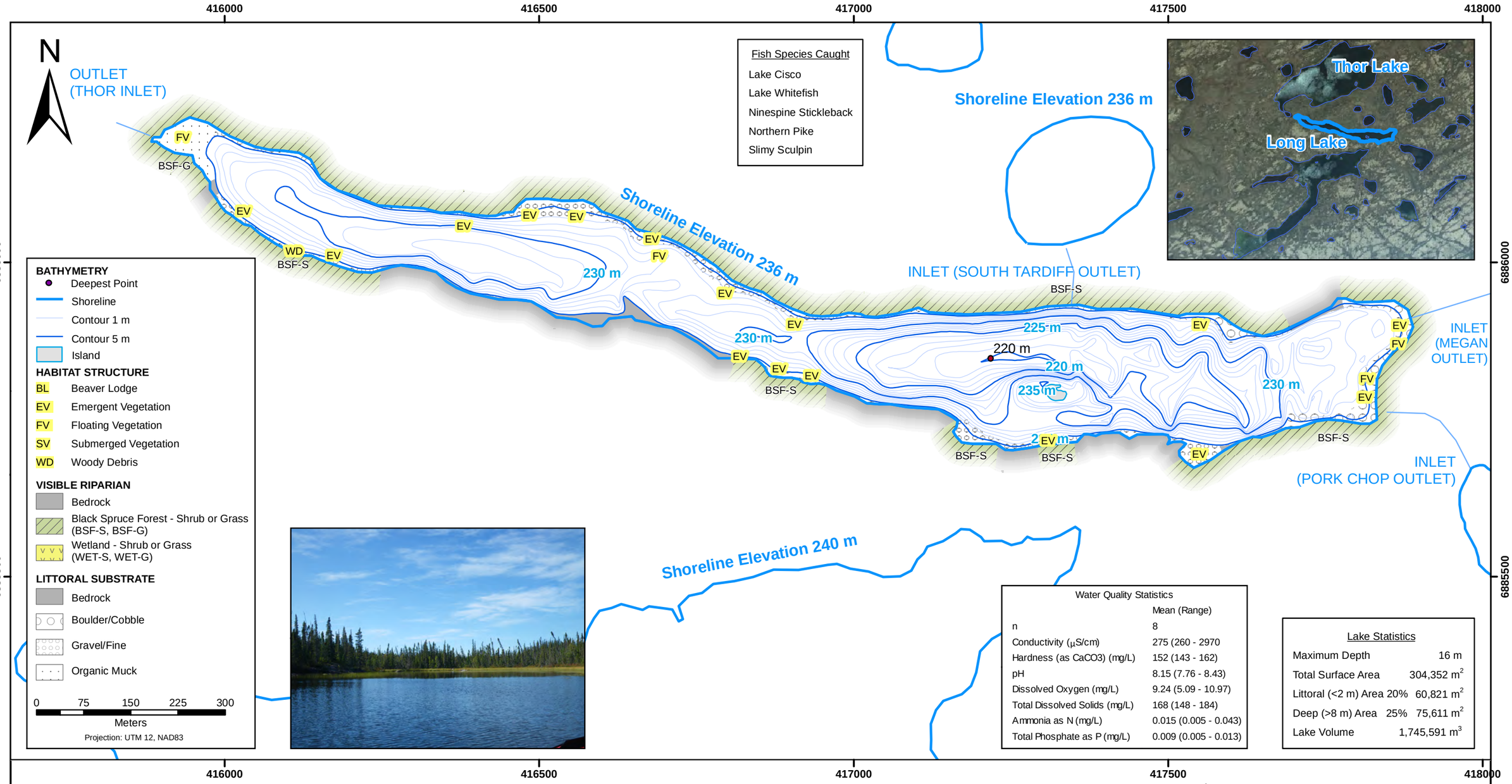
KINNIKINNICK LAKE HABITAT

Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE 27/08/2010		SCALE 1:7,000	
REVISION DATE 23/12/2010		PROJECT	FIGURE NO. 21
DRAWN LF	CHECKED SN	APPROVED NL	VOL



Water Quality Statistics	Mean (Range)
n	8
Conductivity (µS/cm)	275 (260 - 2970
Hardness (as CaCO3) (mg/L)	152 (143 - 162)
pH	8.15 (7.76 - 8.43)
Dissolved Oxygen (mg/L)	9.24 (5.09 - 10.97)
Total Dissolved Solids (mg/L)	168 (148 - 184)
Ammonia as N (mg/L)	0.015 (0.005 - 0.043)
Total Phosphate as P (mg/L)	0.009 (0.005 - 0.013)

Lake Statistics		
Maximum Depth		16 m
Total Surface Area		304,352 m^2
Littoral (<2 m) Area	20%	60,821 m^2
Deep (>8 m) Area	25%	75,611 m^2
Lake Volume		1,745,591 m^3

Thor Lake Rare Earth Metals Project

LONG LAKE HABITAT

Area of Detail

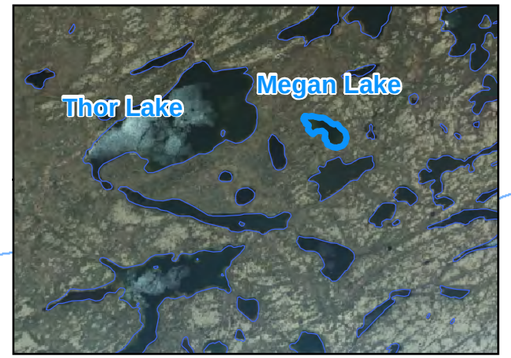
AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE	SCALE	
27\07\2010	1:6,000	
REVISION DATE 23\12\2010	PROJECT	FIGURE NO. 22
DRAWN LF / CHECKED SN / APPROVED NL	VOL	

418000 418500

6887000



OUTLET

Fish Species Caught

No Fish Caught

N

Shoreline Elevation 250 m

Shoreline Elevation 250 m

248 m

247 m

246 m

245 m

244 m

243.4 m

FV

EV

BSF-S

BATHYMETRY

- Deepest Point
- Shoreline
- Contour 1 m
- Contour 5 m

HABITAT STRUCTURE

- BL Beaver Lodge
- EV Emergent Vegetation
- FV Floating Vegetation
- SV Submerged Vegetation
- WD Woody Debris

VISIBLE RIPARIAN

- Bedrock
- Black Spruce Forest - Shrub or Grass (BSF-S, BSF-G)
- Wetland - Shrub or Grass (WET-S, WET-G)

LITTORAL SUBSTRATE

- Bedrock
- Boulder/Cobble
- Gravel/Fine
- Organic Muck

0 40 80 120 160

Meters

Projection: UTM 12, NAD83

Lake Statistics

Maximum Depth		6.6 m
Total Surface Area		96,912 m^2
Littoral (<2 m) Area	58%	56,302 m^2
Deep (>8 m) Area	0%	0 m^2
Lake Volume		241,419 m^3

Water Quality Statistics

	Mean (Range)
n	5
Conductivity (µS/cm)	493 (419 - 582)
Hardness (as CaCO3) (mg/L)	288 (252 - 335)
pH	8.35 (8.09 - 8.62)
Dissolved Oxygen (mg/L)	5.90 (0.23 - 11.51)
Total Dissolved Solids (mg/L)	301 (274 - 355)
Ammonia as N (mg/L)	0.415 (0.037 - 1.190)
Total Phosphate as P (mg/L)	0.019 (0.007 - 0.037)

418000 418500

Thor Lake Rare Earth Metals Project

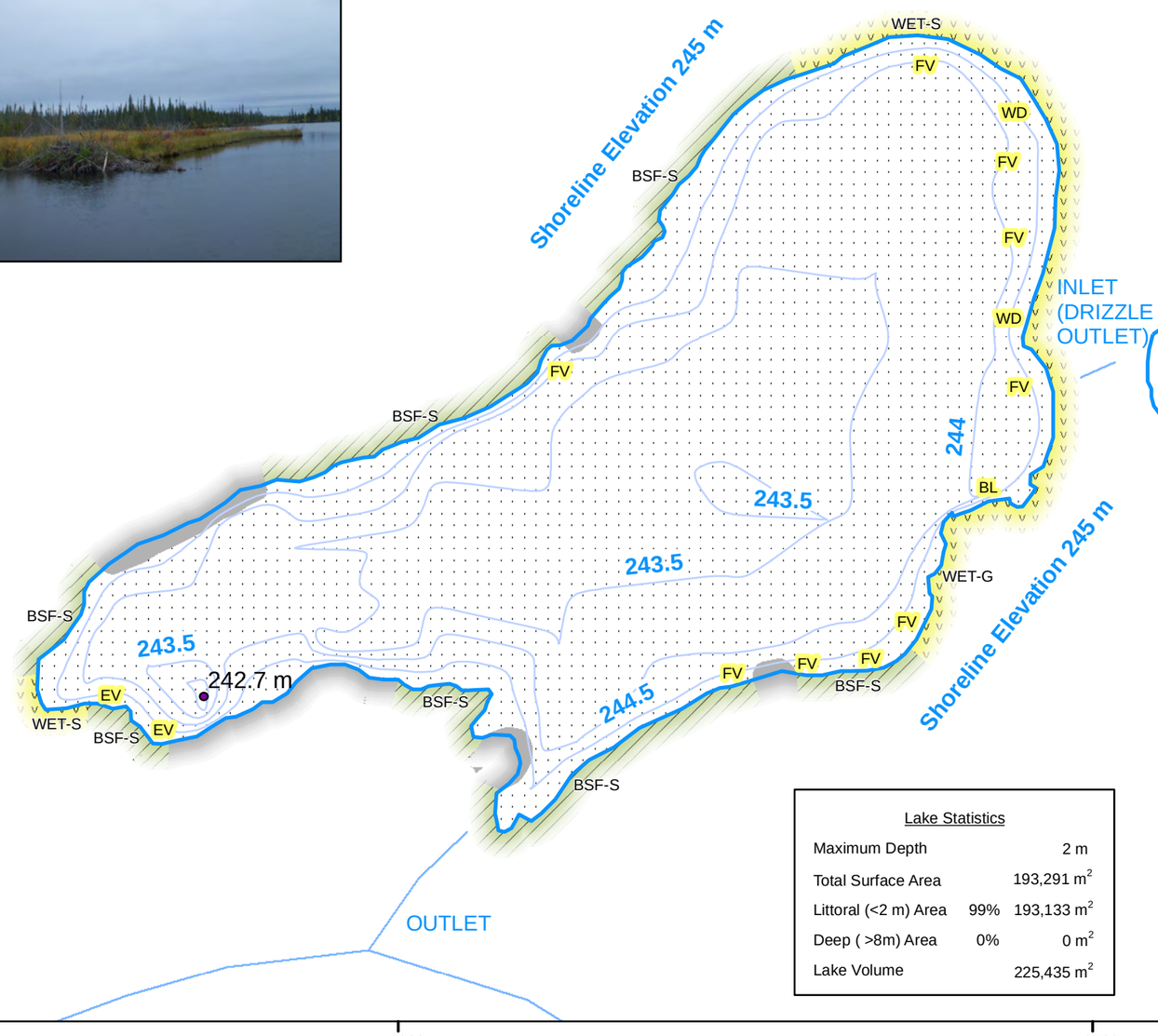
MEGAN LAKE HABITAT

Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE 10/09/2009		SCALE 1:2,500	
REVISION DATE 21/12/2010		PROJECT	FIGURE NO. 23
DRAWN LF	CHECKED SN	APPROVED NL	VOL



BATHYMETRY

- Deepest Point
- Shoreline
- Contour 0.5 m

HABITAT STRUCTURE

- BL Beaver Lodge
- EV Emergent Vegetation
- FV Floating Vegetation
- SV Submerged Vegetation
- WD Woody Debris

VISIBLE RIPARIAN

- Bedrock
- Black Spruce Forest - Shrub or Grass (BSF-S, BSF-G)
- Wetland - Shrub or Grass (WET-S, WET-G)

LITTORAL SUBSTRATE

- Bedrock
- Boulder/Cobble
- Gravel/Fine
- Organic Muck

0 50 100 150 200
Meters

Projection: UTM 12, NAD83

Lake Statistics

Maximum Depth		2 m
Total Surface Area		193,291 m^2
Littoral (<2 m) Area	99%	193,133 m^2
Deep (>8m) Area	0%	0 m^2
Lake Volume		225,435 m^2

Water Quality Statistics

	Mean (Range)
n	9
Conductivity (µS/cm)	307 (168 - 495)
Hardness (as CaCO3) (mg/L)	169 (115 - 267)
pH	7.96 (7.43 - 8.27)
Dissolved Oxygen (mg/L)	7.46 (0.40 - 12.35)
Total Dissolved Solids (mg/L)	217 (155 - 331)
Ammonia as N (mg/L)	1.121 (0.016 - 2.650)
Total Phosphate as P (mg/L)	0.022 (0.014 - 0.049)

Thor Lake Rare Earth Metals Project

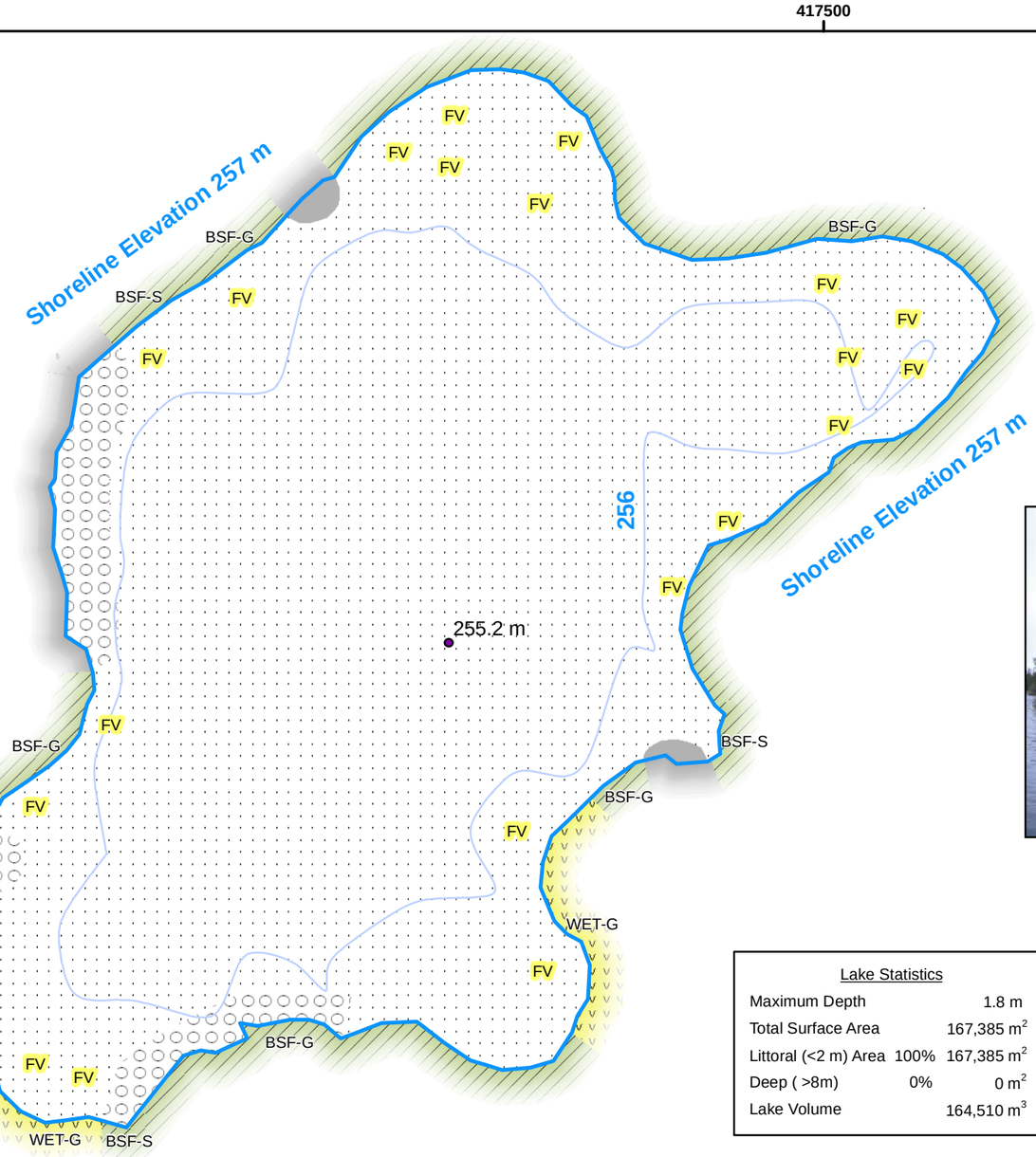
MURKY LAKE HABITAT

Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE	SCALE
10/09/2009	1:4,000
REVISION DATE 21/12/2010	PROJECT / FIGURE NO. 24
DRAWN LF / CHECKED SN / APPROVED NL	VOL



BATHYMETRY
- Deepest Point
- Shoreline
- Contour 1 m

HABITAT STRUCTURE
- BL Beaver Lodge
- EV Emergent Vegetation
- FV Floating Vegetation
- SV Submerged Vegetation
- WD Woody Debris

VISIBLE RIPARIAN
- Bedrock
- Black Spruce Forest - Shrub or Grass (BSF-S, BSF-G)
- Wetland - Shrub or Grass (WET-S, WET-G)

LITTORAL SUBSTRATE
- Bedrock
- Boulder/Cobble
- Gravel/Fine
- Organic Muck

0 40 80 120 160
Meters
Projection: UTM 12, NAD83

Lake Statistics

Maximum Depth		1.8 m
Total Surface Area		167,385 m^2
Littoral (<2 m) Area	100%	167,385 m^2
Deep (>8m)	0%	0 m^2
Lake Volume		164,510 m^3

Water Quality Statistics

	Mean (Range)
n	9
Conductivity (µS/cm)	342 (197 - 606)
Hardness (as CaCO3) (mg/L)	197 (116 - 358)
pH	8.04 (7.42 - 8.35)
Dissolved Oxygen (mg/L)	7.15 (0.93 - 11.77)
Total Dissolved Solids (mg/L)	256 (162 - 457)
Ammonia as N (mg/L)	0.924 (0.020 - 2.510)
Total Phosphate as P (mg/L)	0.016 (0.012 - 0.026)

Thor Lake Rare Earth Metals Project

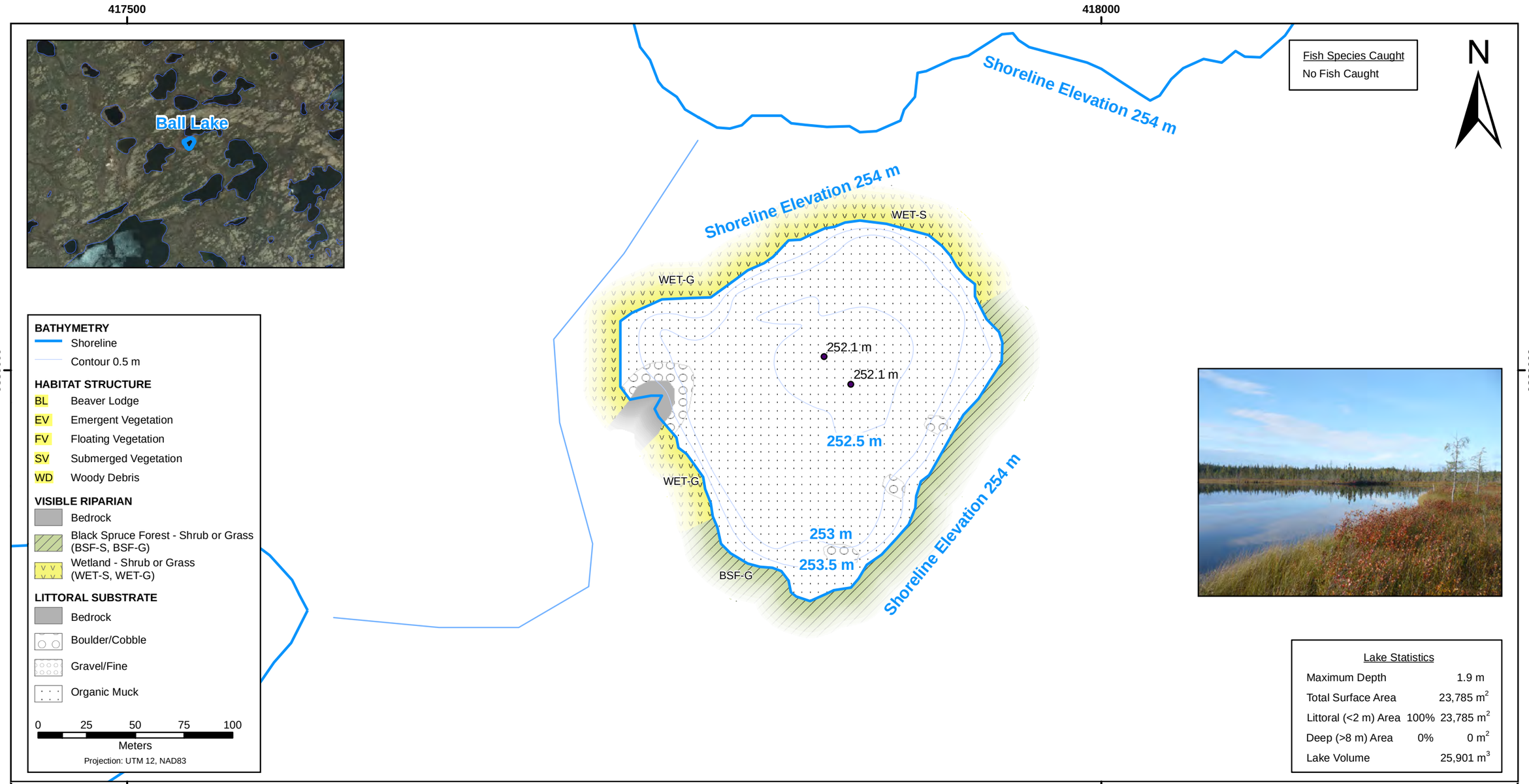
RING LAKE HABITAT

Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec

DRAFT DATE 27/07/2010			SCALE 1:3,000
REVISION DATE 21/12/2010			PROJECT / FIGURE NO. 25
DRAWN LF	CHECKED SN	APPROVED NL	VOL



Thor Lake Rare Earth Metals Project

BALL LAKE HABITAT

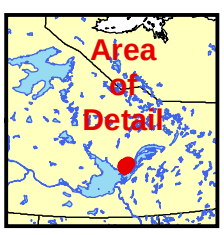
Area of Detail

AVALON RARE METALS INC.

PREPARED BY Stantec			
DRAFT DATE 10/12/2010		SCALE 1:2,000	
REVISION DATE 16/12/2010		PROJECT	FIGURE NO. 26
DRAWN LF	CHECKED SN	APPROVED NL	VOL

Hydrology Technical Data Report
Thor Lake Project, Nechalacho Deposit

FISH BEARING STATUS



AVALON RARE METALS INC.

PREPARED BY Stantec			
DRAFT DATE 21/12/2010		SCALE 1:35,000	
REVISION DATE		PROJECT 123510431	FIGURE NO. 6-48
DRAWN RH	CHECKED SN	APPROVED NL	VOL