

Appendix V5-6Z

Blasting Setbacks to Meet DFO Guidelines at Potential Rock Quarry Sites

Table A5-6U-1. Freshwater Fish Species Presence in Waterbodies Near Phase 2 Quarries

Quarry	Freshwater Waterbodies within Overpressure Setback Contour*		Freshwater Waterbodies within Minimum Ground Vibration Setback Contour**	
	Waterbody Name	Fish Species	Waterbody Name	Fish Species
AH	-	-	Windy Lake	NSSB, SLSC, LKTR, LKWH, CISC
AI	Patch Lake	NSSB, LKTR, LKWH, CISC, LSCS	Patch Lake	NSSB, LKTR, LKWH, CISC, LSCS
H	Wolverine Lake	NSSB, LSCS	Wolverine Lake	NSSB, LSCS
	Patch Lake	NSSB, LKTR, LKWH, CISC, LSCS	Patch Lake	NSSB, LKTR, LKWH, CISC, LSCS
L	Unnamed Pond	Unknown	Quarry Q04 Pond	NSSB
			Unnamed Pond	Unknown
M	Unnamed Pond	Unknown	Unnamed Pond	Unknown
Z	Q05 Pond	NSSB	Q05 Pond	NSSB
	Unnamed Pond Connected to Boulder Creek	Unknown	Unnamed Stream Connected to Q05 Pond	Unknown
			Unnamed Pond Connected to Boulder Creek	Unknown
O	-	-	Boulder Creek	ARGR
N	Unnamed Pond	Unknown	Unnamed Pond	Unknown
			Unnamed Stream connected to Q06 Pond	Unknown
P	Unnamed Pond connected to Q06 Pond	Unknown	Unnamed Pond connected to Q06 Pond	Unknown
			Unnamed Stream connected to Q06 Pond	Unknown
			Boulder Creek Tributary	ARGR, NSSB
Q	Q06 Pond	NSSB	Unnamed Pond connected to Q06 Pond	Unknown
			Unnamed Stream connected to Q06 Pond	Unknown
			Q06 Pond	NSSB
			Unnamed Lake connected to Boulder Creek Trib	Unknown
R	Unnamed Lake connected to Boulder Creek Trib	Unknown	Unnamed Lake connected to Boulder Creek Trib	Unknown
S	Q08 Pond	NSSB	Q08 Pond	NSSB
			Unnamed Ponds connected to Q08 Pond	Unknown
T	Aimaokatalok Inflow	Unknown	Aimaokatalok Inflow	Unknown
	Unnamed Lakes connected to Aimaokatalok Inflow	Unknown	Unnamed Lakes connected to Aimaokatalok Inflow	Unknown
U	Aimaokatalok Lake	NSSB, LKTR, LKWH, CISC, LSCS, ARGR, SLSC	Aimaokatalok Lake	NSSB, LKTR, LKWH, CISC, LSCS, ARGR, SLSC
	Aimaokatalok Inflow	Unknown	Aimaokatalok Inflow	Unknown
AB	Aimaokatalok Inflow	Unknown	Aimaokatalok Inflow	Unknown
V	Aimaokatalok Inflow (S13, S14, S15)	Unknown	Q10 Pond	NSSB, ARGR
	Aimaokatalok Inflow (S16)	NSSB, ARGR	Unnamed Pond connected to Q10 Pond	Unknown
			Aimaokatalok Inflow (S13, S14, S15)	Unknown
			Aimaokatalok Inflow (S16)	NSSB, ARGR
W	Unnamed Pond connected to Aimaokatalok Inflow (S16)	Unknown	Unnamed Pond connected to Aimaokatalok Inflow (S16)	Unknown
	Aimaokatalok Inflows	Unknown	Aimaokatalok Inflows	Unknown
	Unnamed Ponds connected to Aimaokatalok Inflows	Unknown	Unnamed Ponds connected to Aimaokatalok Inflows	Unknown

*Calculated according to Wright and Hopky (1998); 100 kPa Overpressure Limit; 162 kg weight of charge; density and compressional wave velocity constants for rock substrates (2.64 g/cm³ and 457,200 cm/s,

**Calculated according to Wright and Hopky (1998); 13 mm/s Ground Vibration Limit; 162 kg weight of charge; density and compressional wave velocity constants for rock substrates (2.64 g/cm³ and 457,200 cm/s, respectively)

Figure V5-6U-1 Phase 2 Quarry Blasting Setbacks

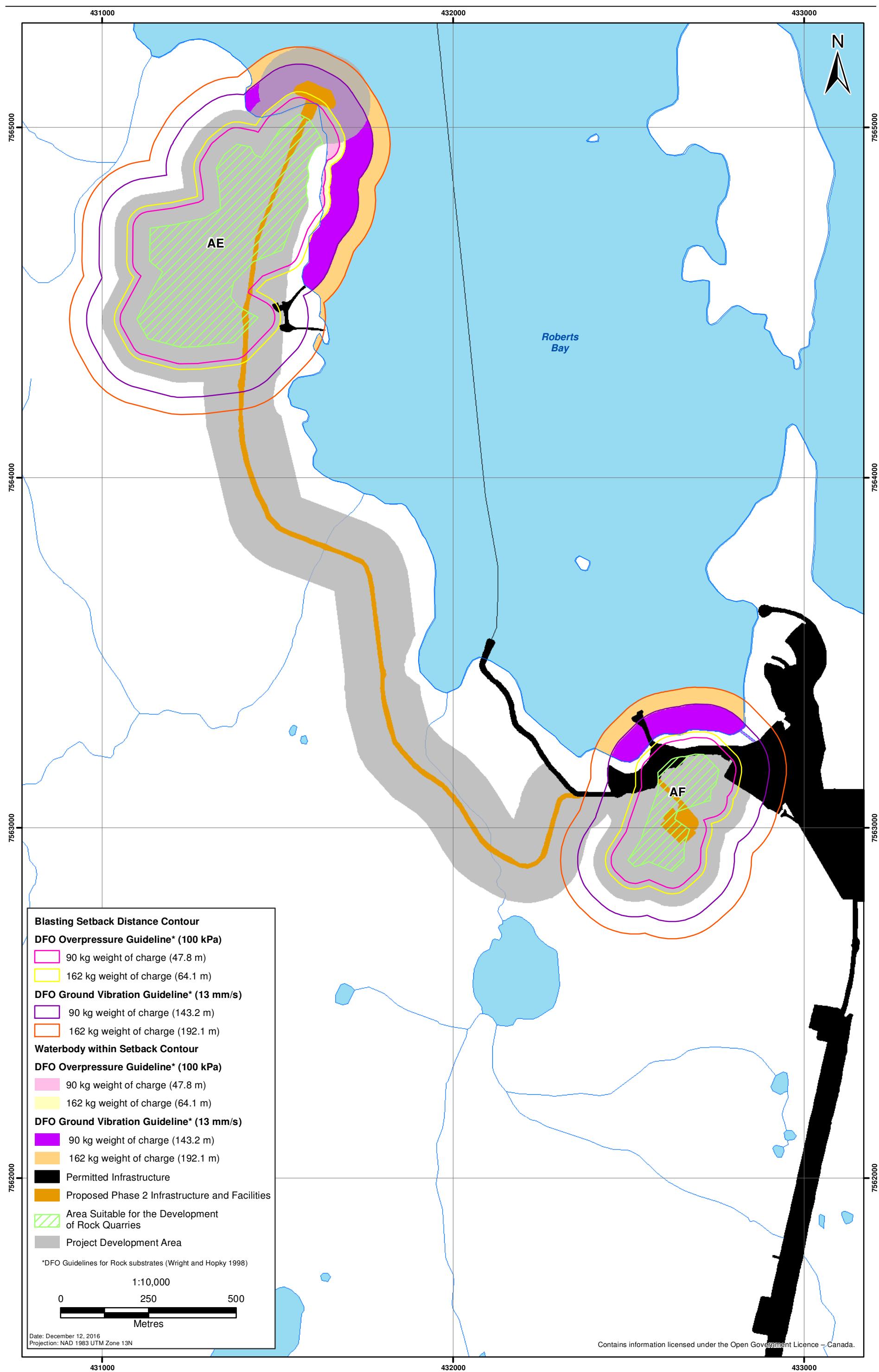


Figure V5-6U-2
Phase 2 Quarry Blasting Setbacks

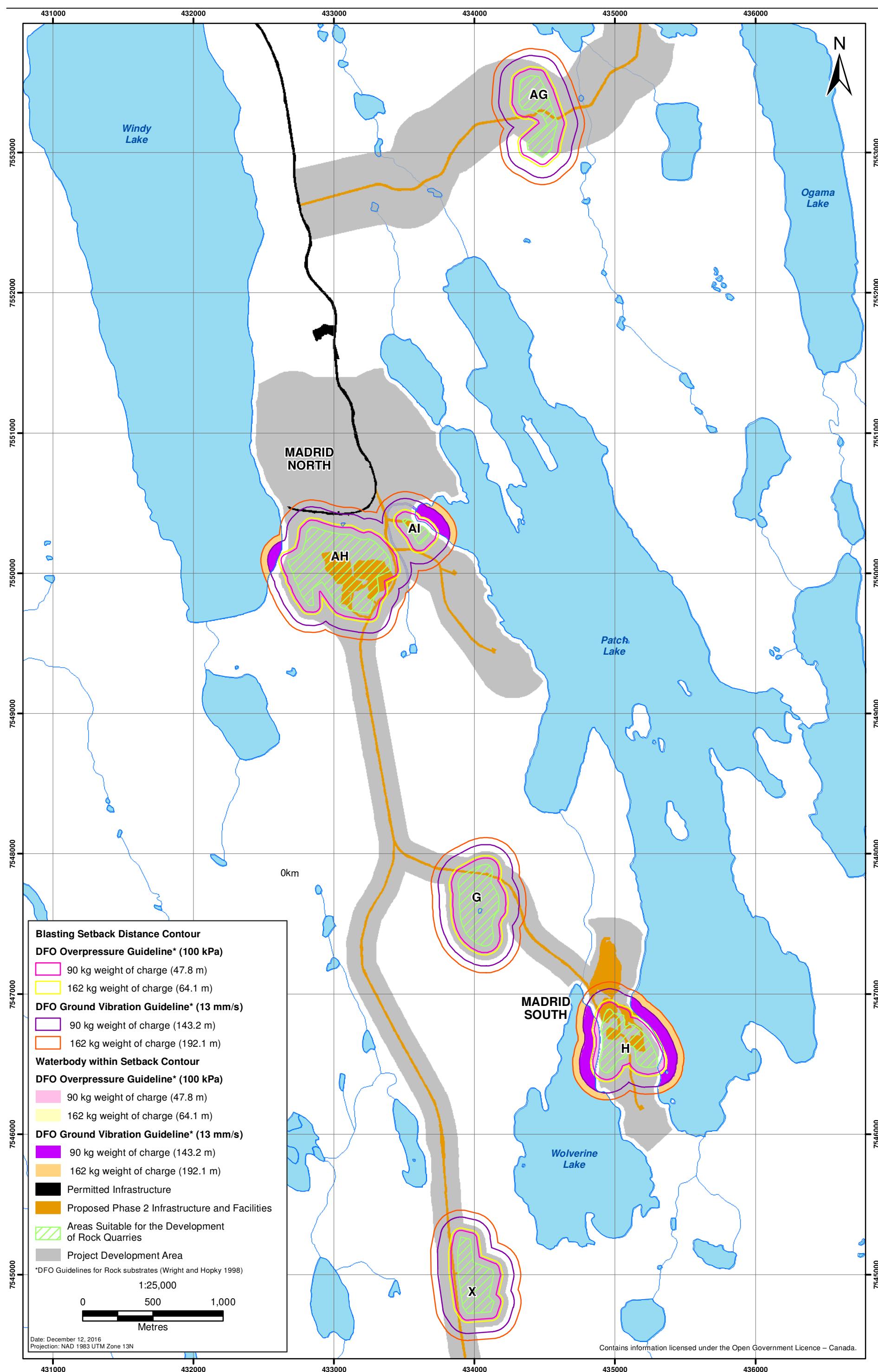


Figure V5-6U-3
Phase 2 Quarry Blasting Setbacks

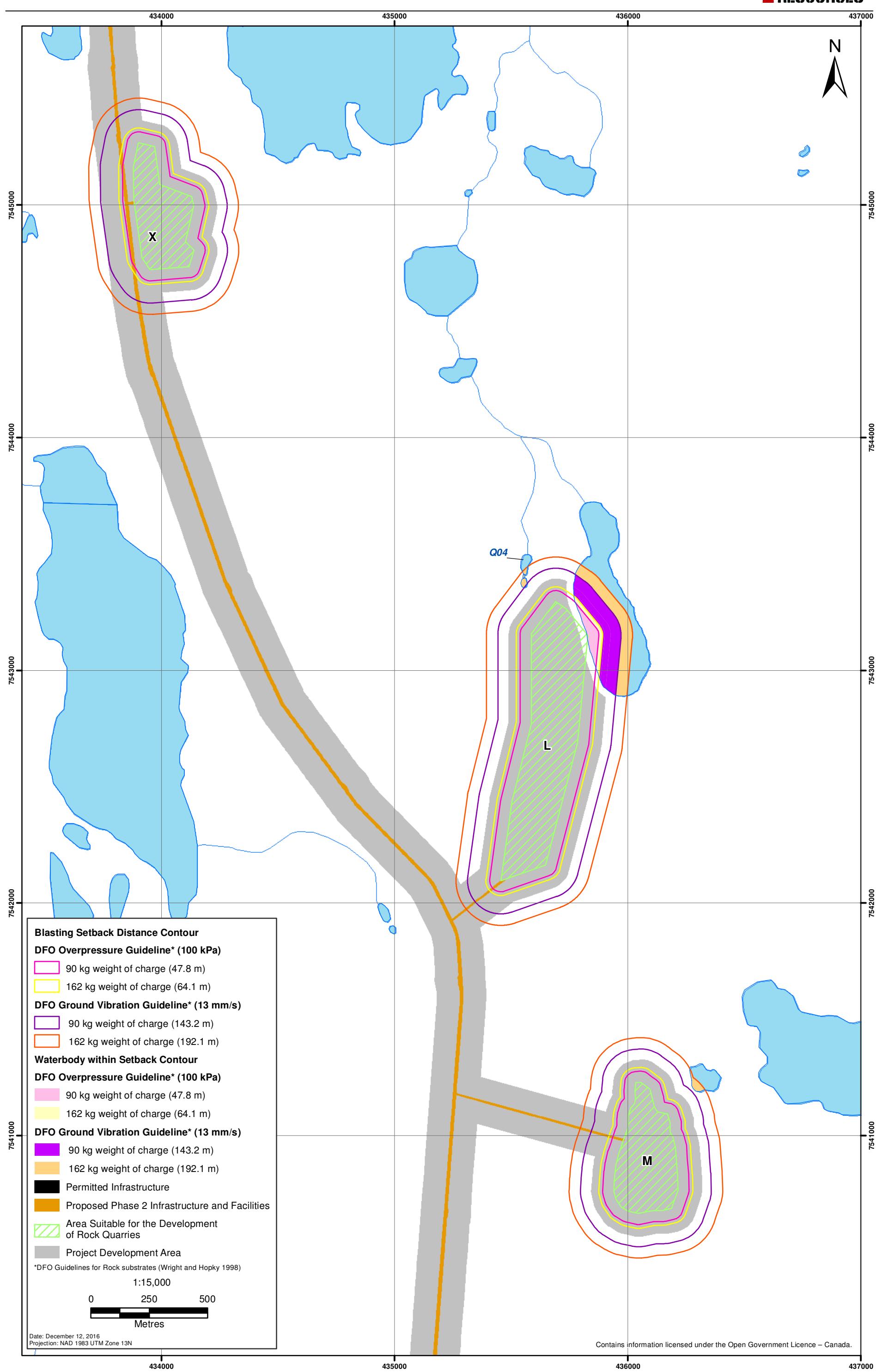


Figure V5-6U-4
Phase 2 Quarry Blasting Setbacks

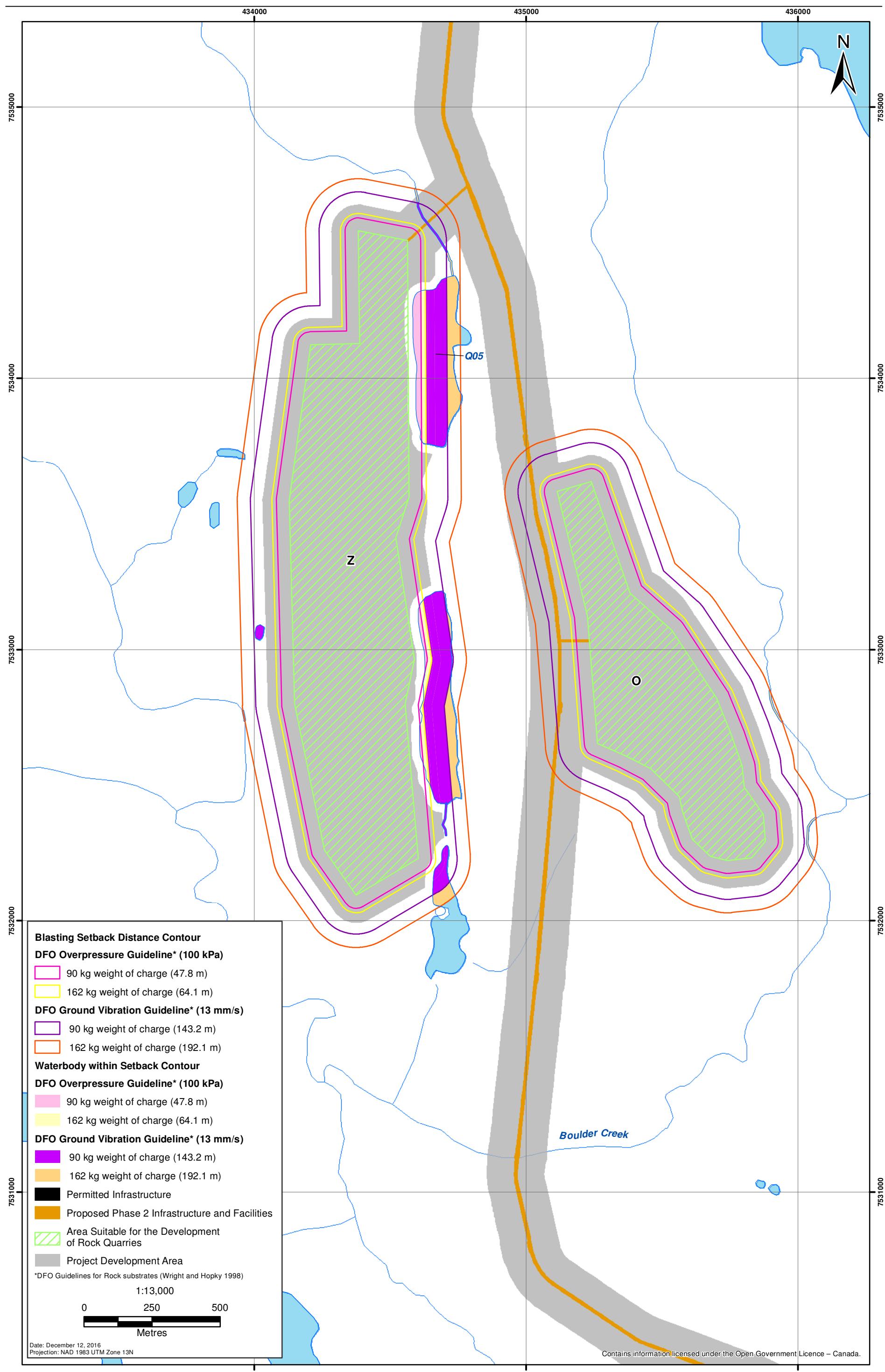


Figure V5-6U-5
Phase 2 Quarry Blasting Setbacks

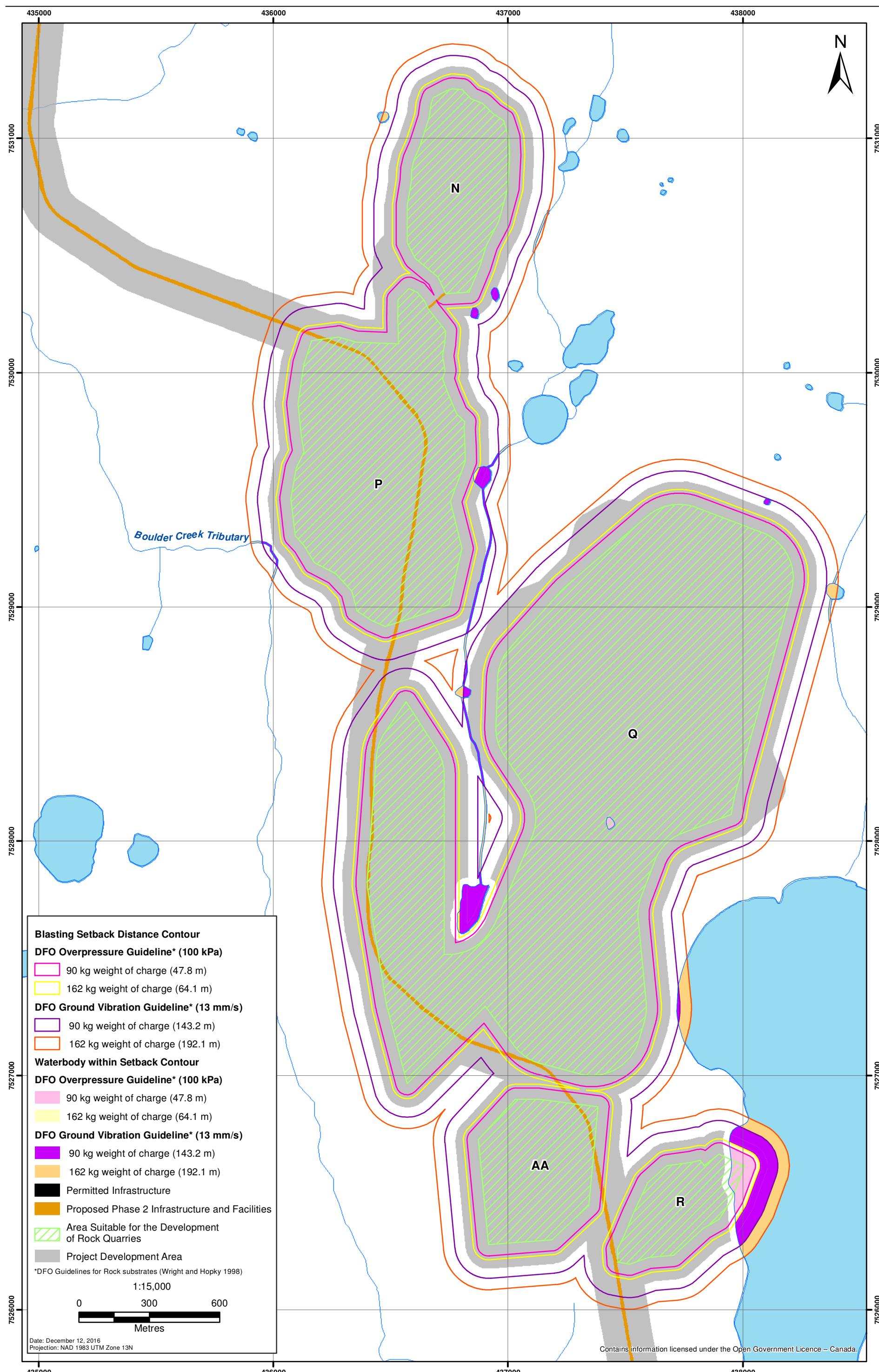


Figure V5-6U-6
Phase 2 Quarry Blasting Setbacks

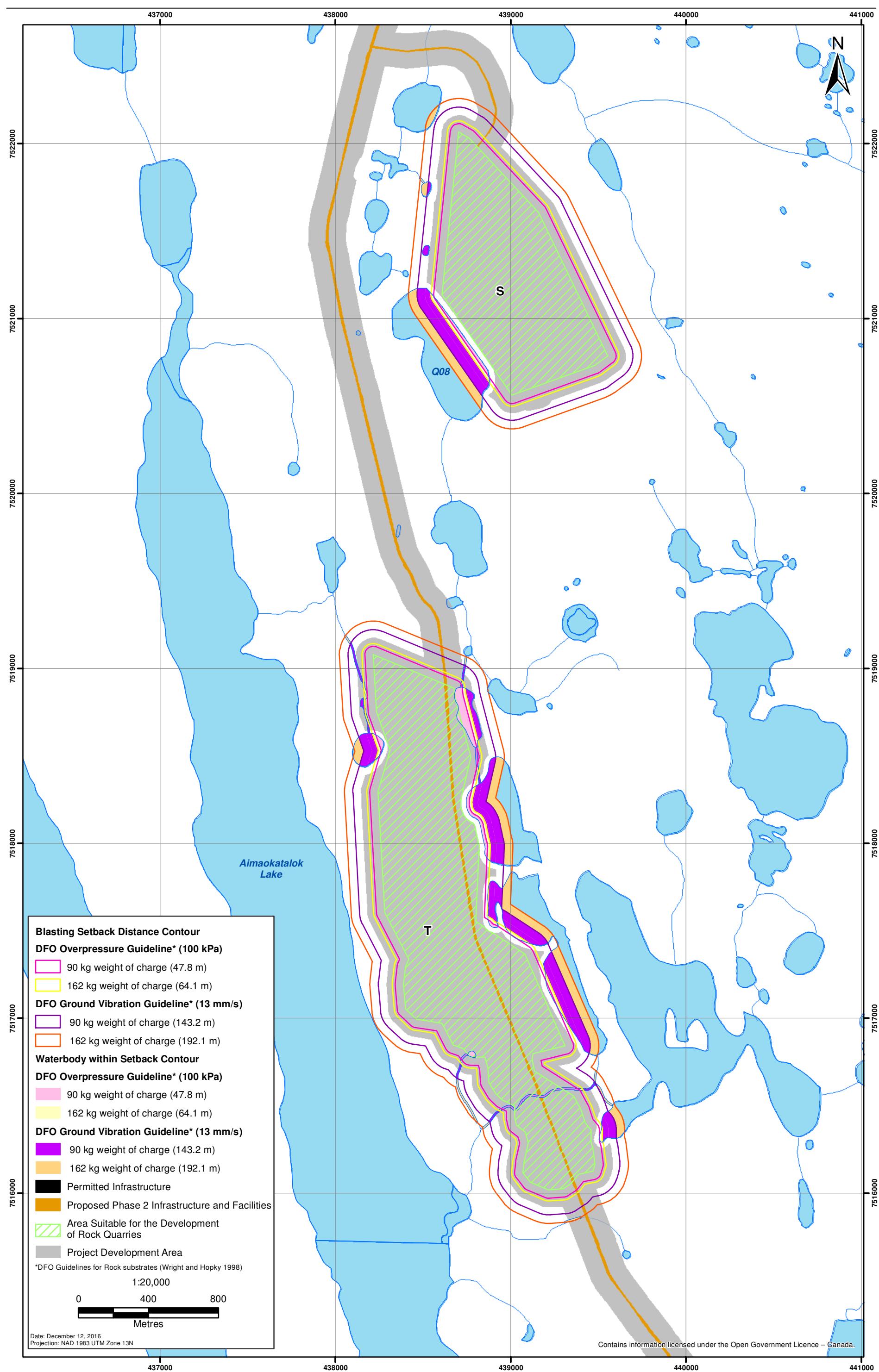


Figure V5-6U-7
Phase 2 Quarry Blasting Setbacks

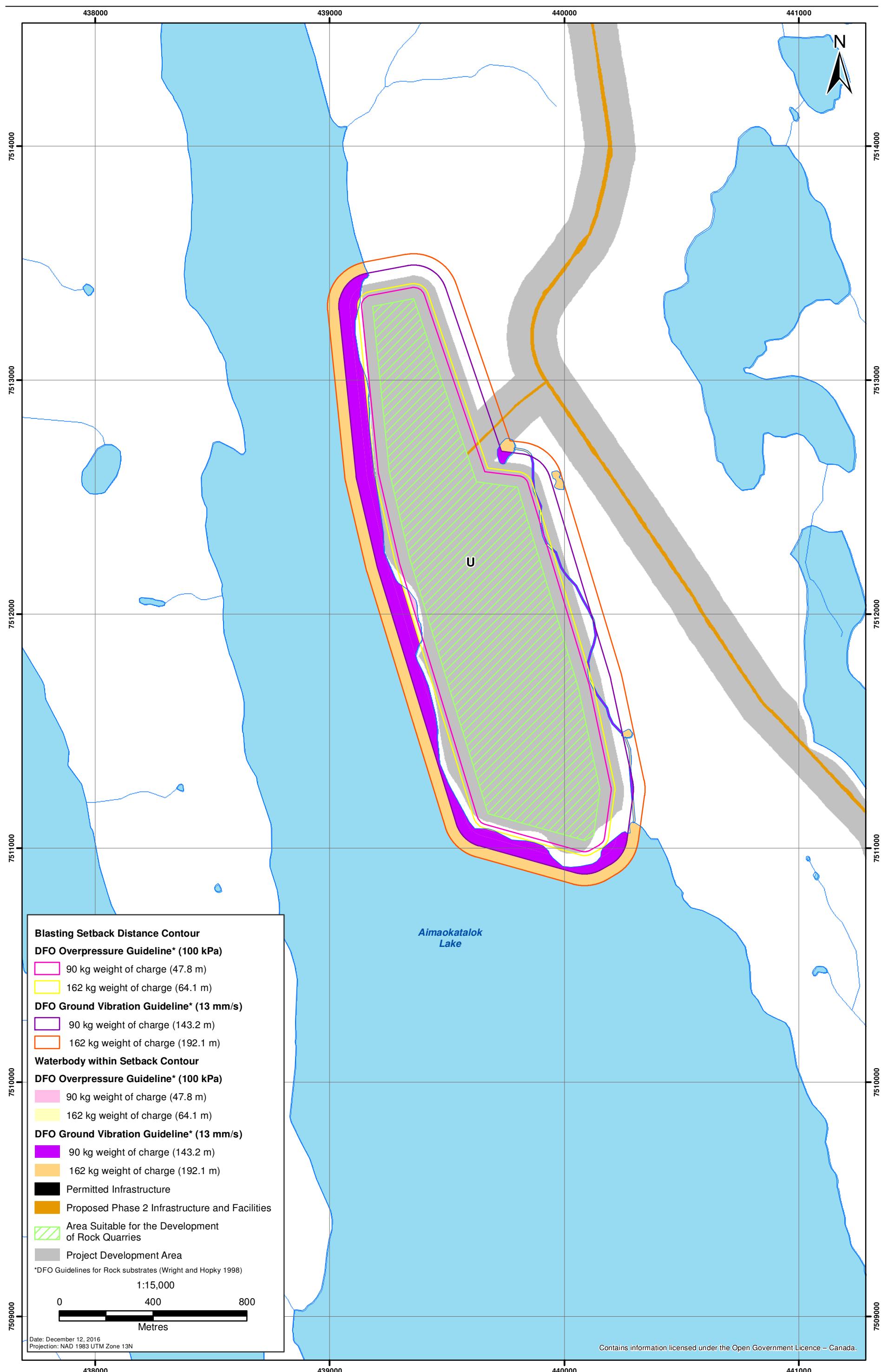


Figure V5-6U-8
Phase 2 Quarry Blasting Setbacks

