

ALTO MAIPO

OWNER'S INSTRUCTION Section 2.29 PHAM-PLN12-INS-0003



Contract:	<input type="checkbox"/> AM-CO610/620B <input checked="" type="checkbox"/> AM-CO630/620A	SI 6340 / N° 0061
Scope Segment Description: VL4, Access tunnel to core		Scope Segment ID:
Location: Ch: 0+646,7	Time for Compliance:	

Contractor shall immediately proceed with the Work described below, in accordance with the terms and conditions of the Contract. This instruction is limited to maximum of 1000 UF or USD \$ 50,000., and without impact on the lump sums or schedule (except for Equivalent Times in the BOQ).

Instruction: Do a pre-grouting according to SAM-plan "SAM-6340-TV-SKT-0001" Rev. B → Pre-Grouting VL4

1. Drill Holes
 2. ~~measured water flow~~ do Lugeon measurements in ~~drill~~ grout holes. Measure 5 min when flow is stable with Pressure 5 bar
 3. Do pre-grouting with grouting pressure approx 30 bar over ground water pressure with following stages
- | Stage | W/G-ratio | max. amount of cement, Grout type |
|-------|-----------|-----------------------------------|
| 1 | 1,0 | 1000 300 kg |
| 2 | 0,6 | 1000 700 kg |
| 3 | 0,5 | 1000 kg |

If no pressure fluctuation the grout

Owner estimate of impact is: Per Units in BOQ ☒ ; or cost ; &/or Time

If Contractor believes that this instruction constitutes a Change, Contractor shall promptly provide Notice according to Section 11 of the Contract.

Contractor comments (if any):

Issued by	Received by Contractor
Sign: <i>Mathias Bischof</i> Designation: <i>Geologist</i> Date: <i>14-05-15</i> Time: <i>07:55</i>	Sign: <i>T. Lin</i> Designation: <i>Geo-Manager</i> Date: <i>16.06.15</i> Time: <i>17:20</i>

White (original): Contractor / Yellow (copy 1): OE/ Pink (copy 2): ITO