

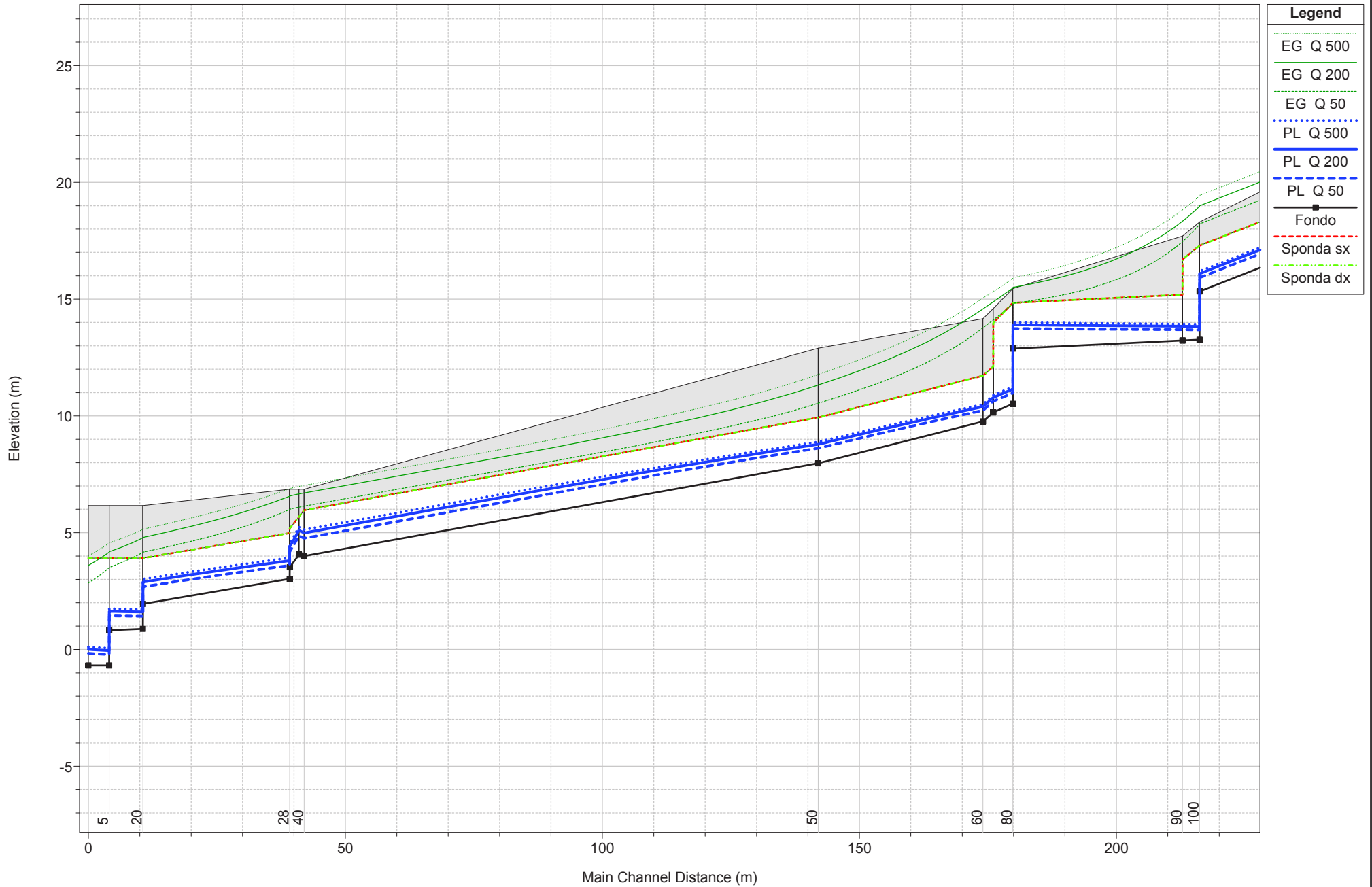
ALLEGATO 2

Verifiche idrauliche Rio Rubino

Sez. 1 - 590

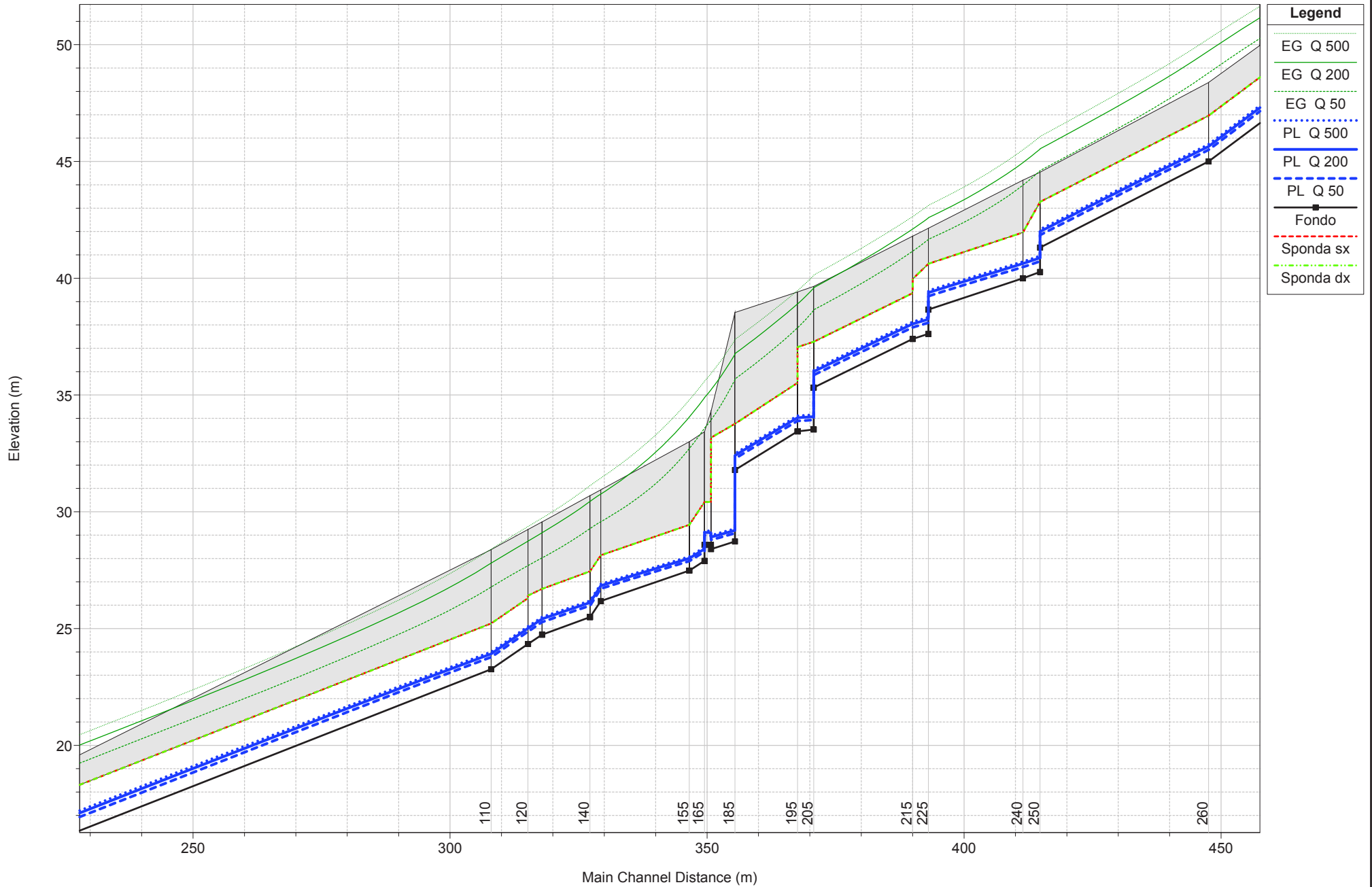
- Profilo longitudinale
- Sezioni trasversali
- Tabelle di calcolo

RIO RUBINO Plan: SA+Monte - Ks 1a_consegna



1 cm Horiz. = 10 m 1 cm Vert. = 2.2 m

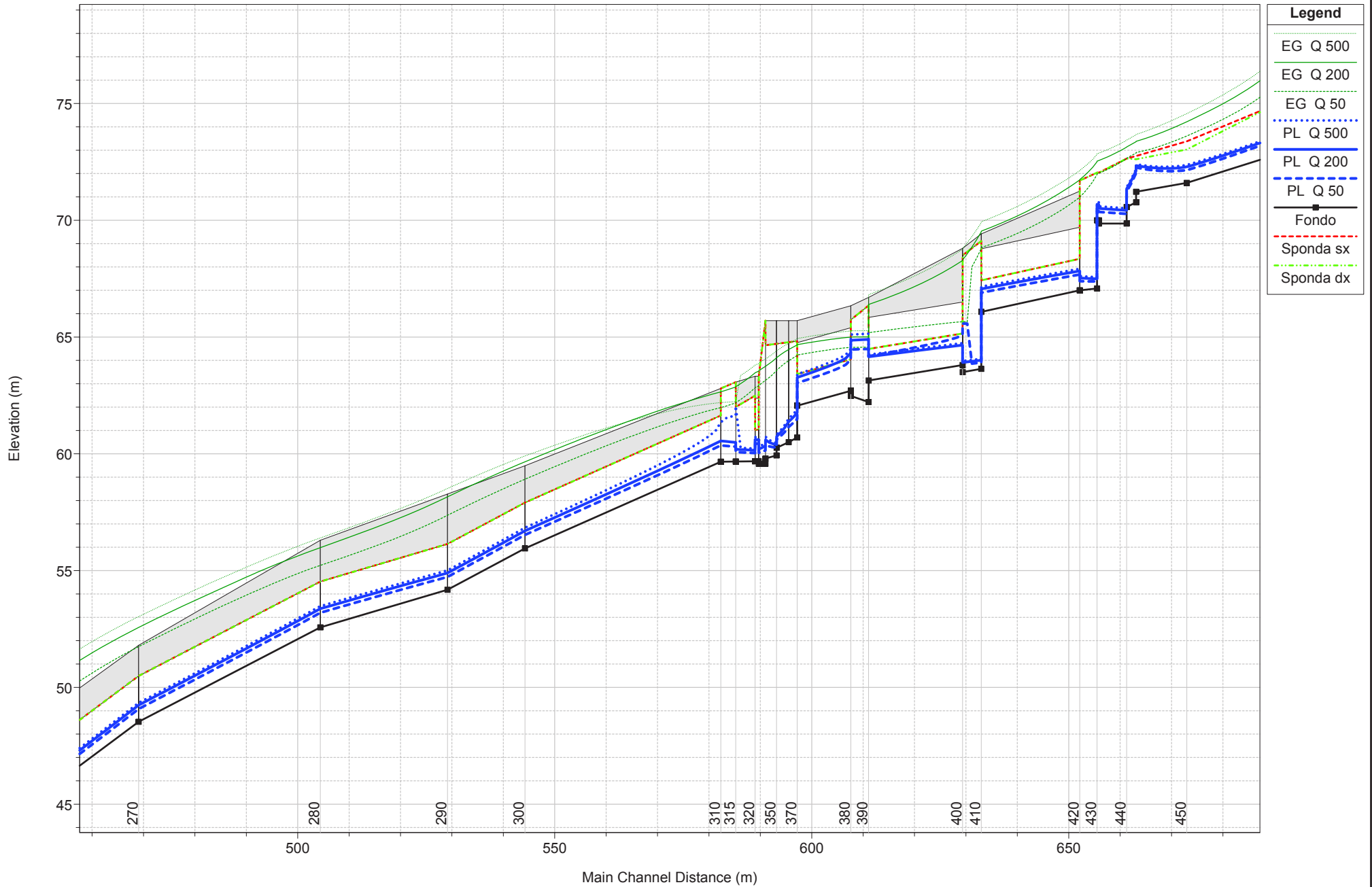
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna



- Legend**
- EG Q 500
 - EG Q 200
 - EG Q 50
 - PL Q 500
 - PL Q 200
 - PL Q 50
 - Fondo
 - Sponda sx
 - Sponda dx

1 cm Horiz. = 10 m 1 cm Vert. = 2.2 m

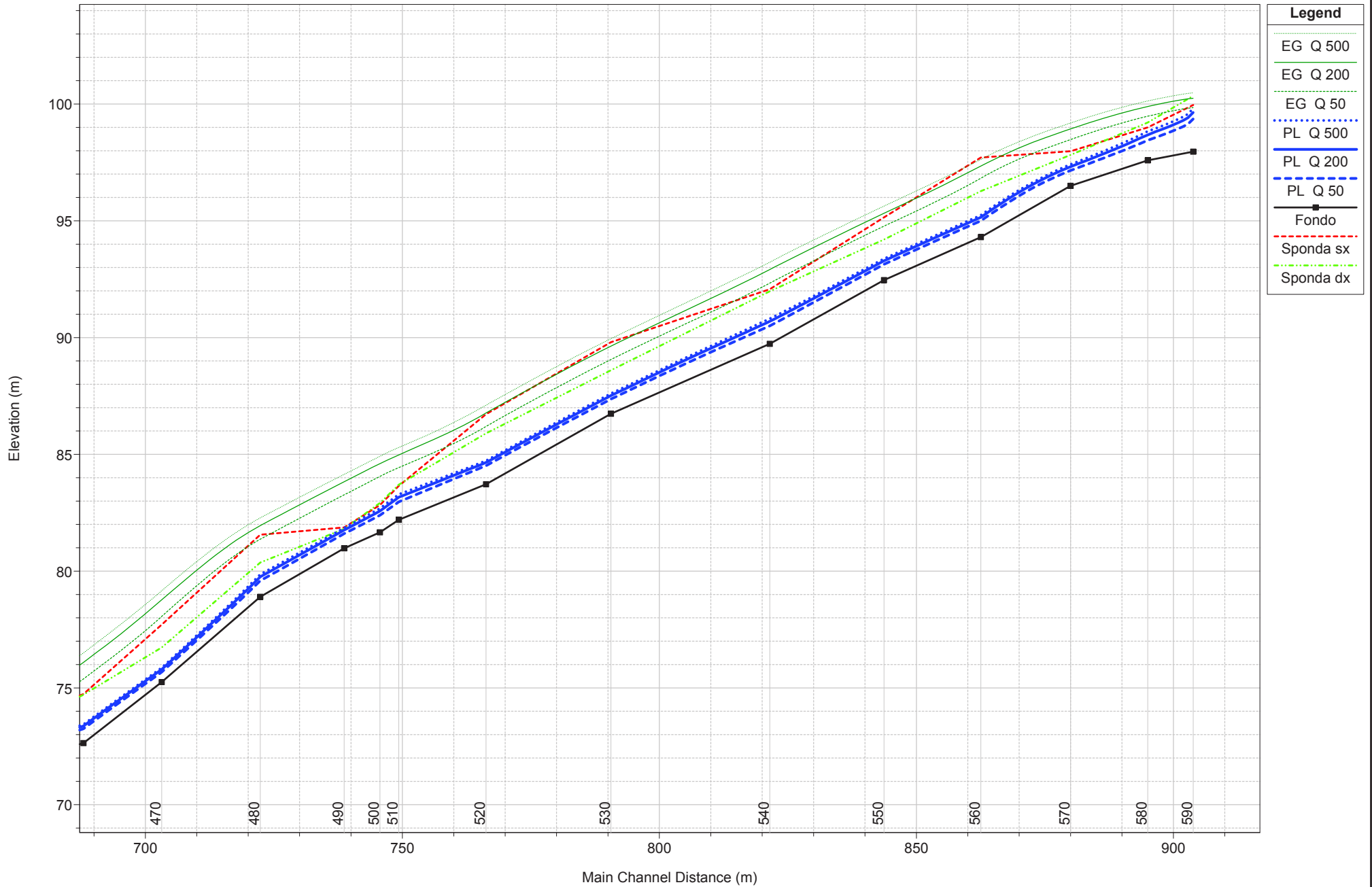
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna



- Legend**
- EG Q 500
 - EG Q 200
 - EG Q 50
 - PL Q 500
 - PL Q 200
 - PL Q 50
 - Fondo
 - Sponda sx
 - Sponda dx

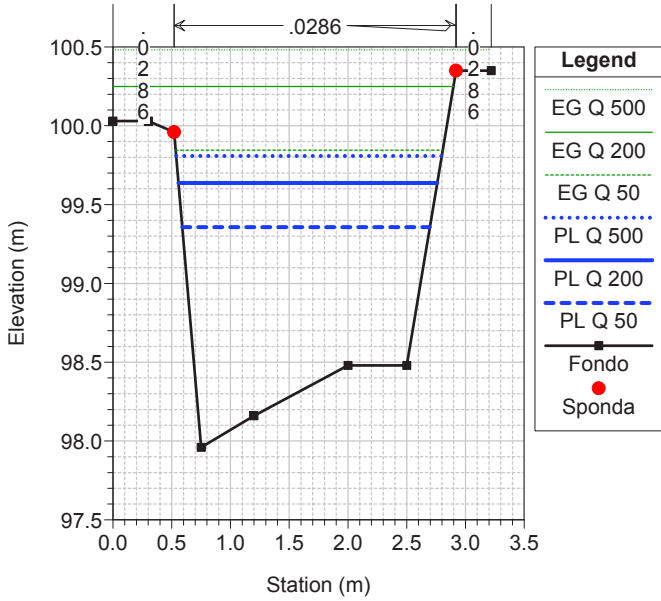
1 cm Horiz. = 10 m 1 cm Vert. = 2.2 m

RIO RUBINO Plan: SA+Monte - Ks 1a_consegna

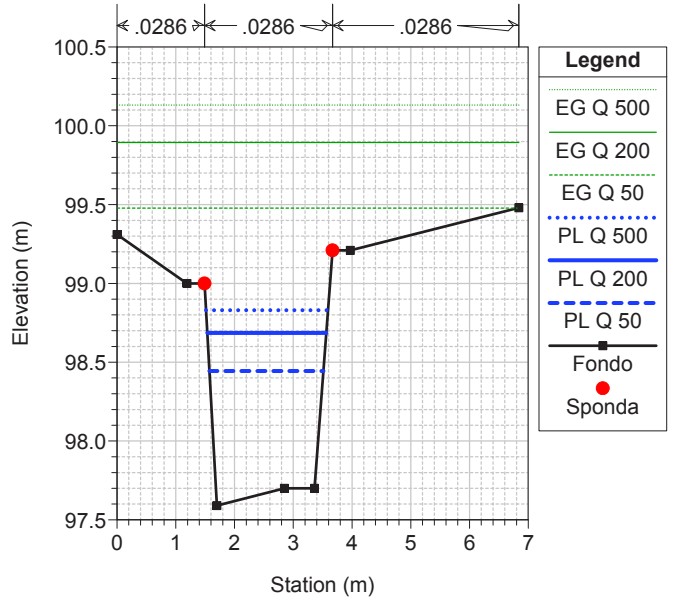


1 cm Horiz. = 10 m 1 cm Vert. = 2.2 m

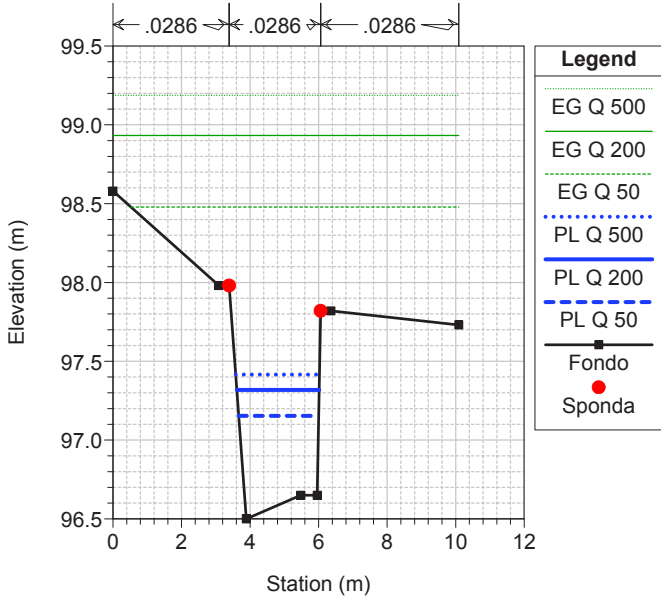
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 590



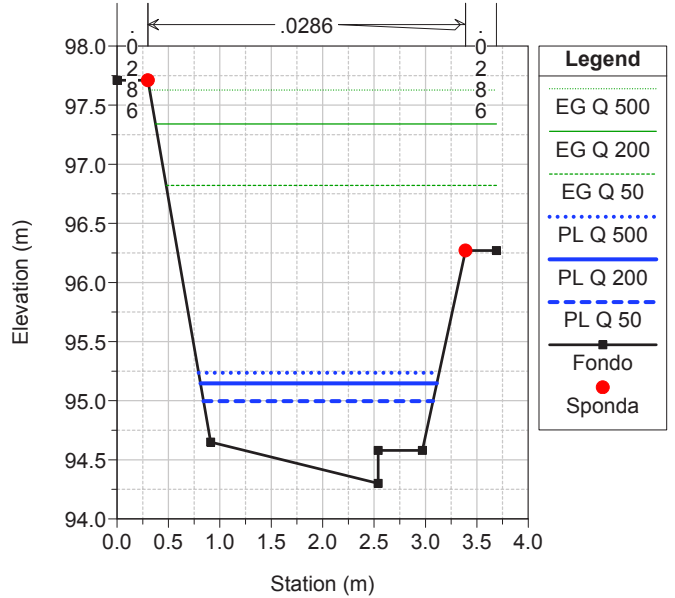
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 580



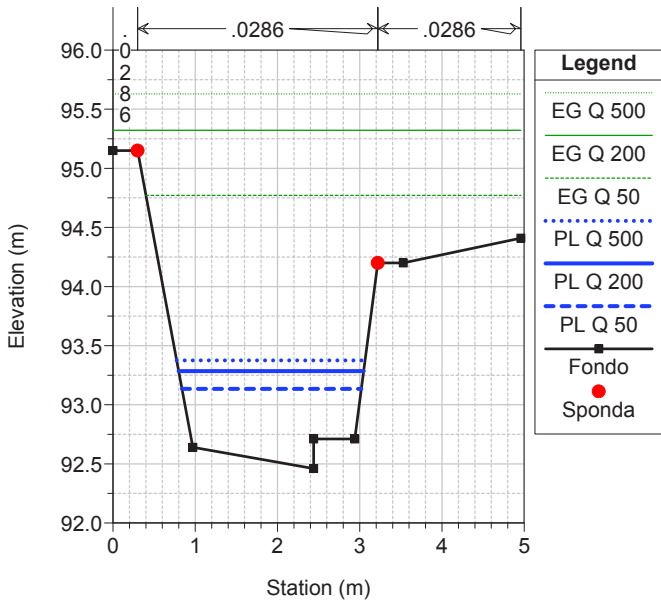
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 570



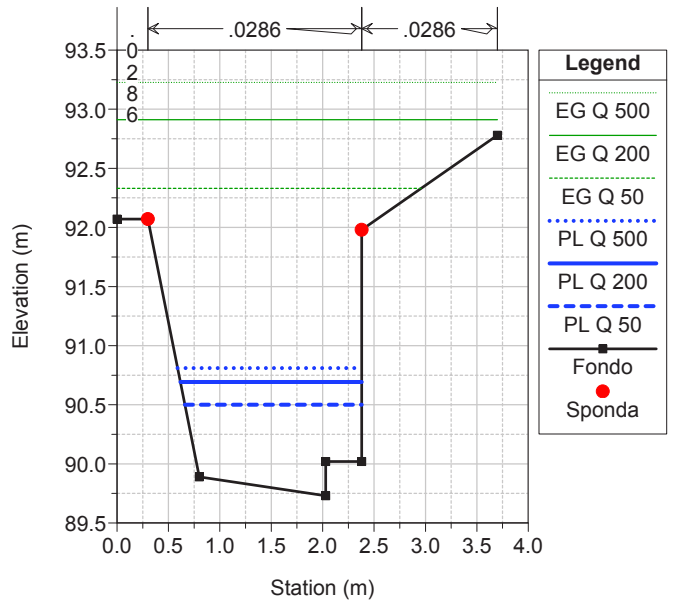
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 560



RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 550

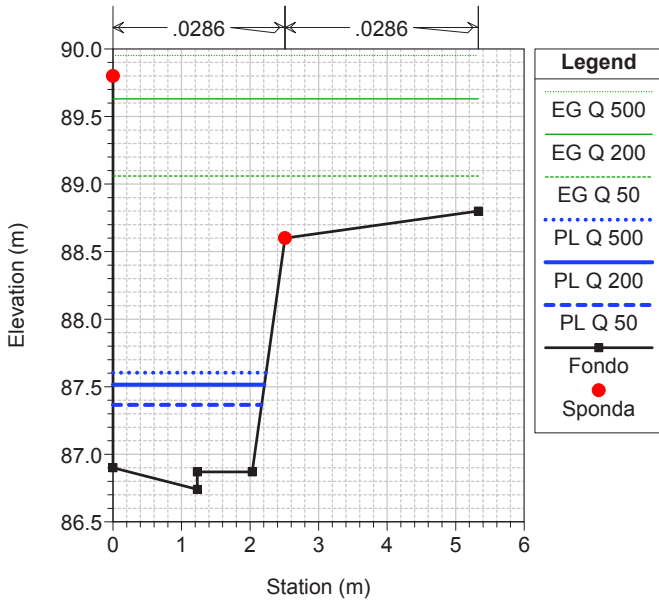


RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 540



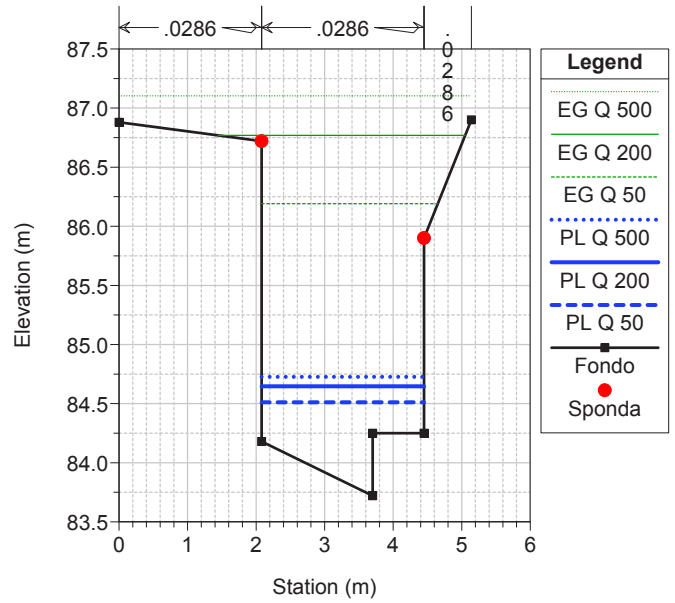
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna

RS = 530



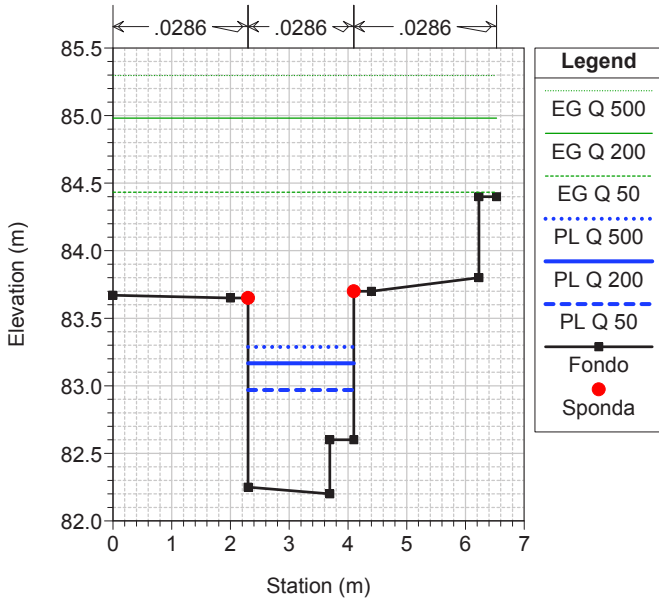
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna

RS = 520



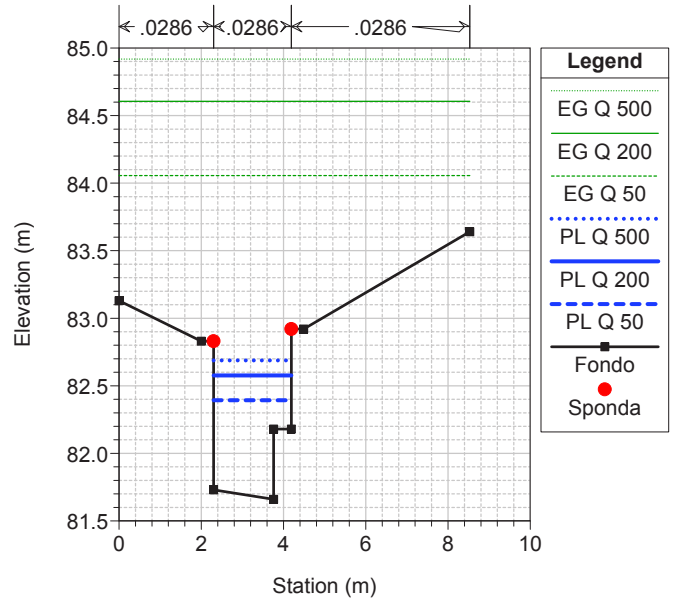
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna

RS = 510



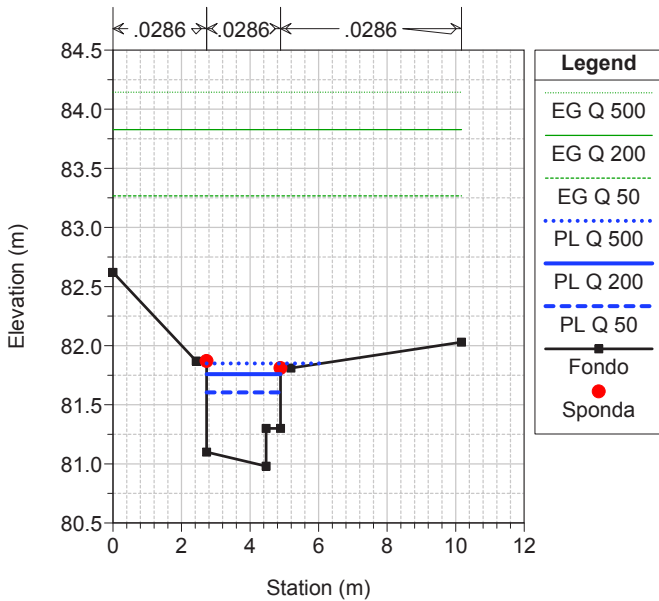
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna

RS = 500



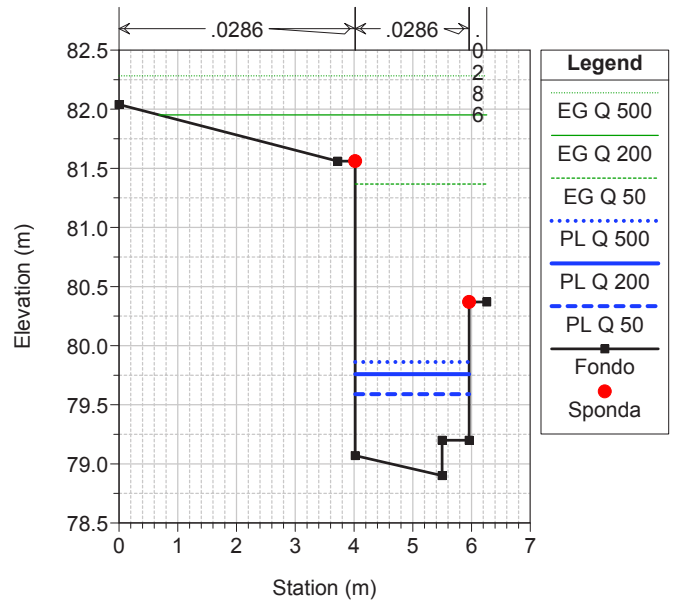
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna

RS = 490

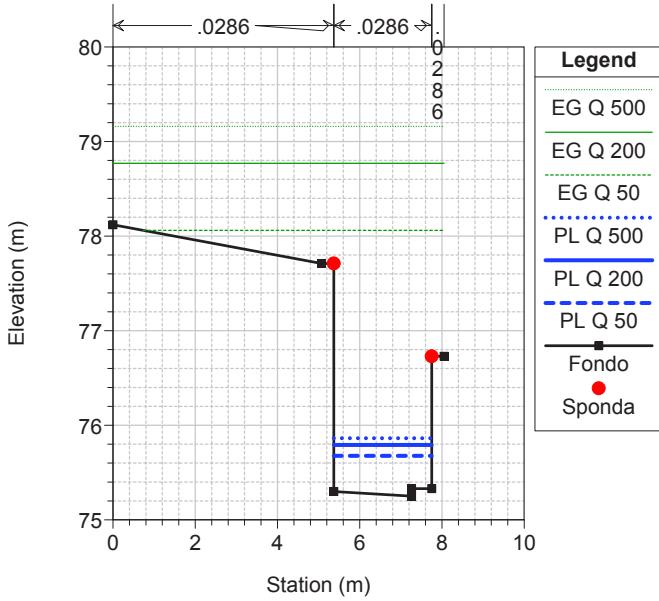


RIO RUBINO Plan: SA+Monte - Ks 1a_consegna

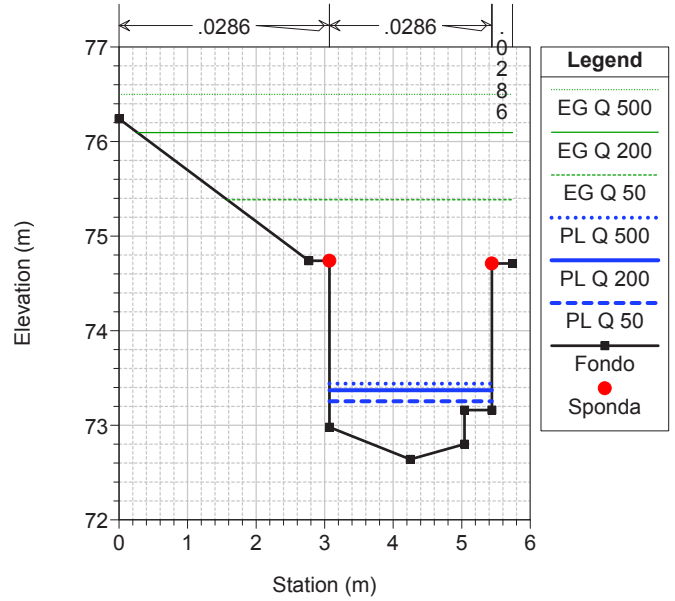
RS = 480



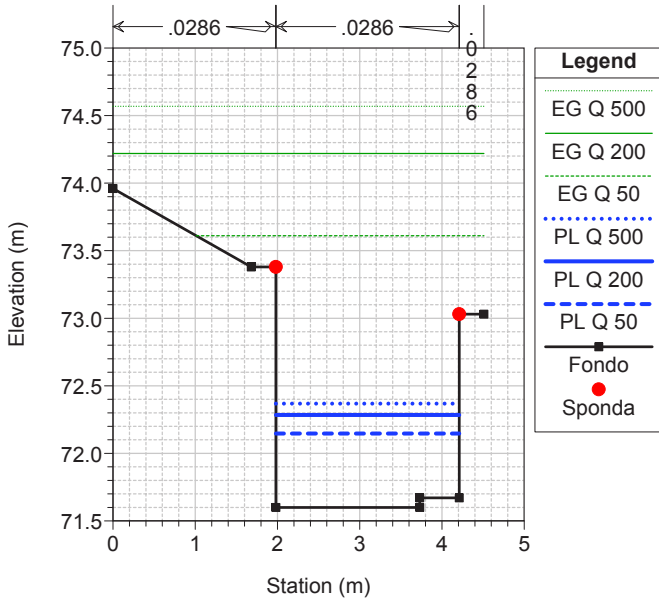
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 470



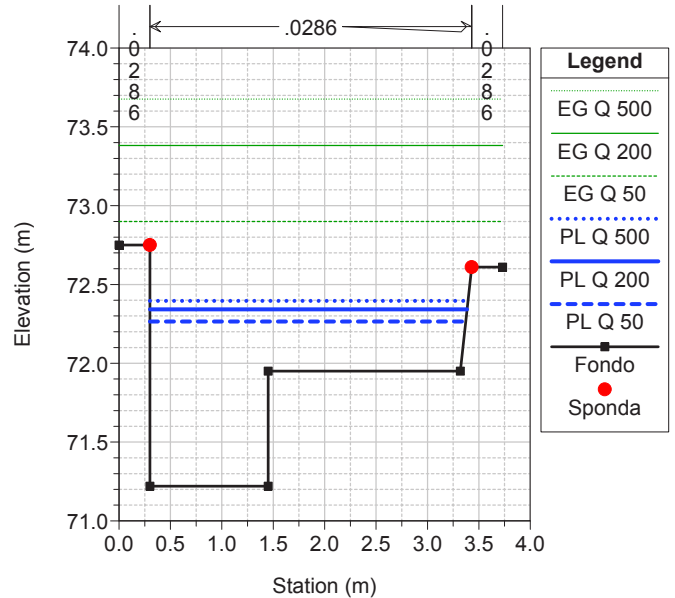
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 460



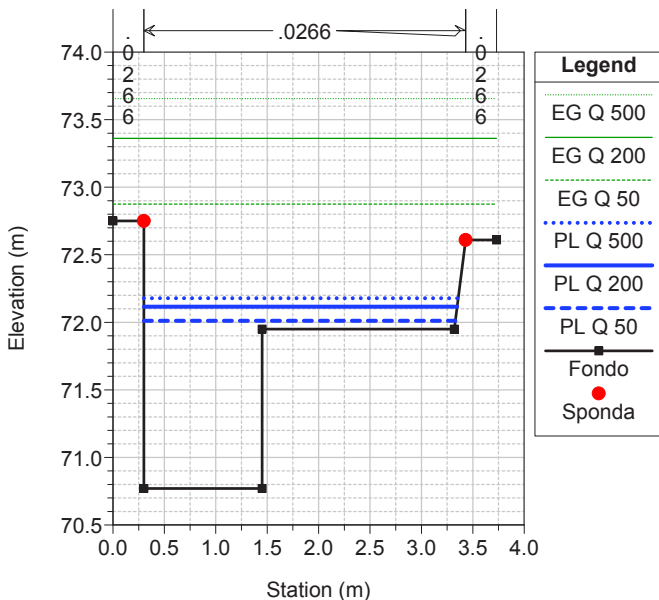
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 450



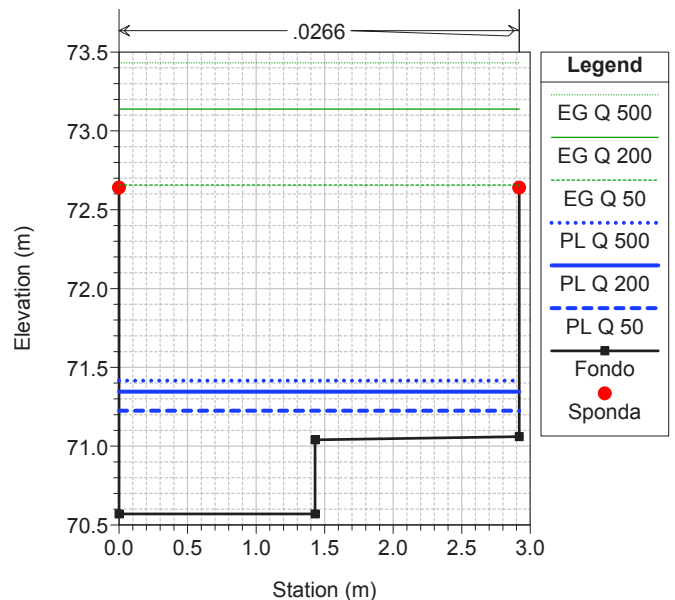
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 446



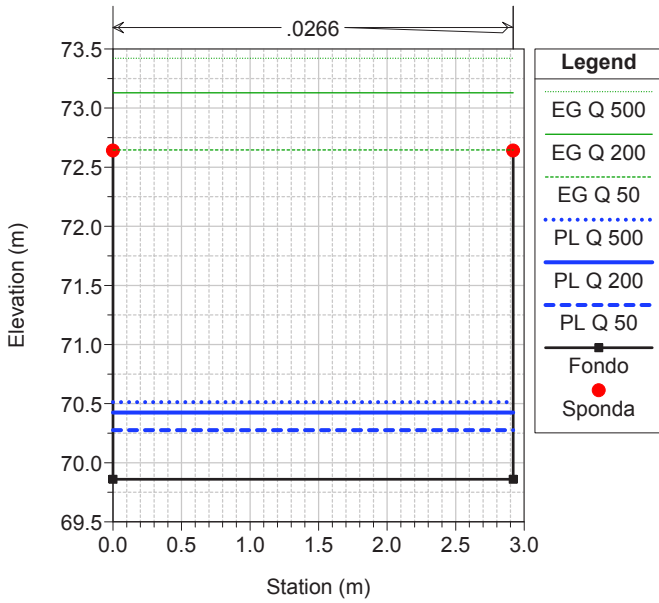
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 445



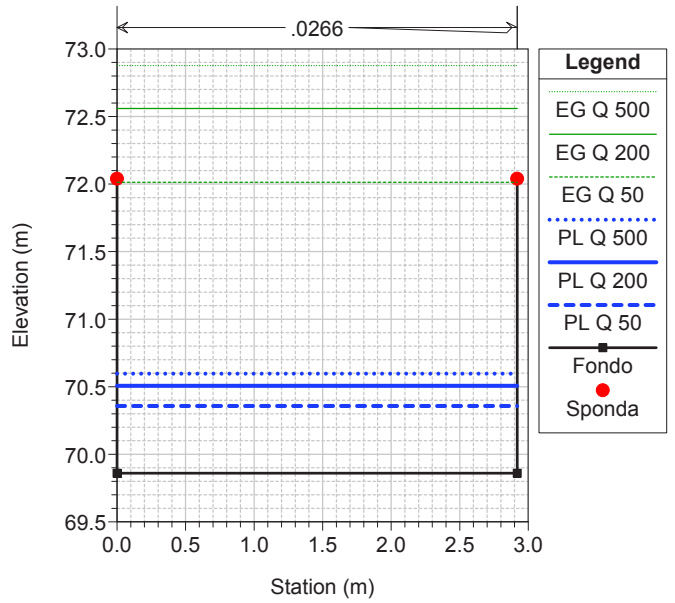
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 441



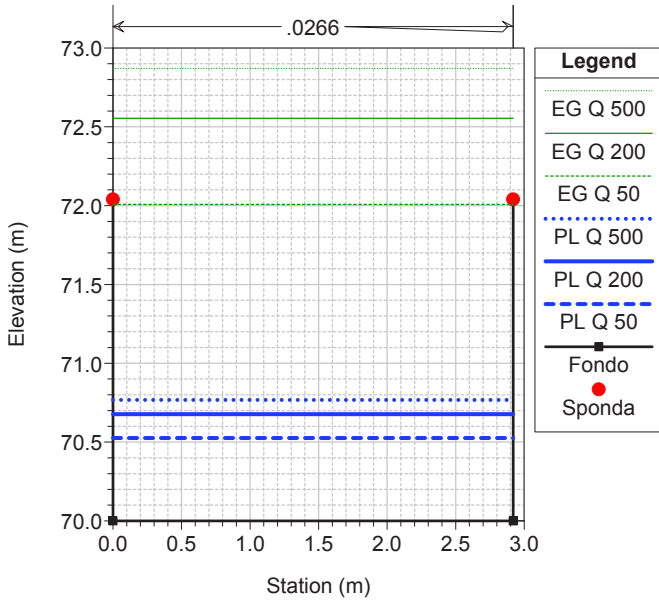
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 440 440 - INIZIO VASCA



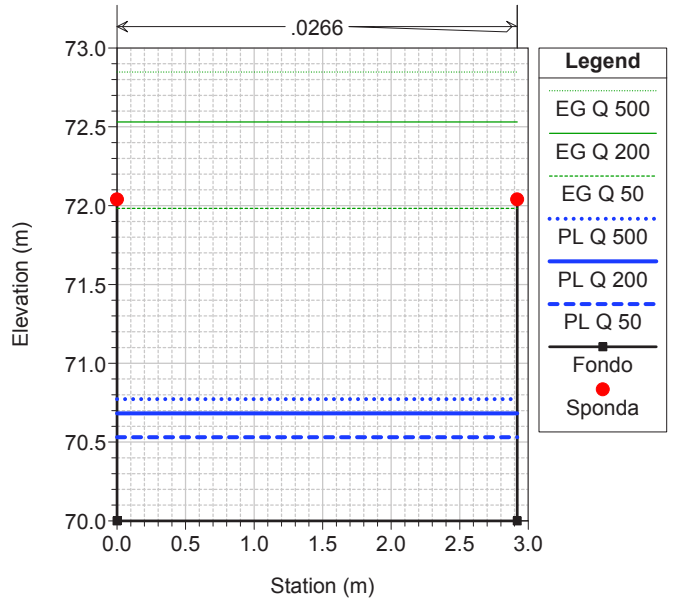
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 433 430 - INIZIO BRIGLIA



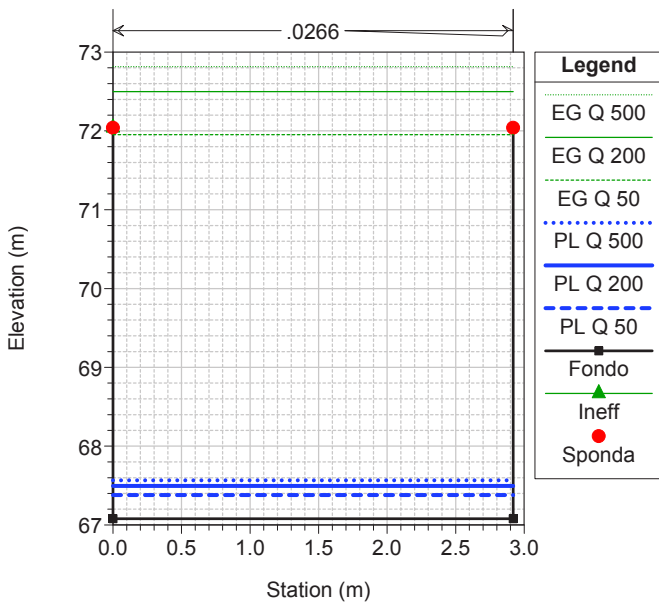
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 432 430 - TESTA BRIGLIA



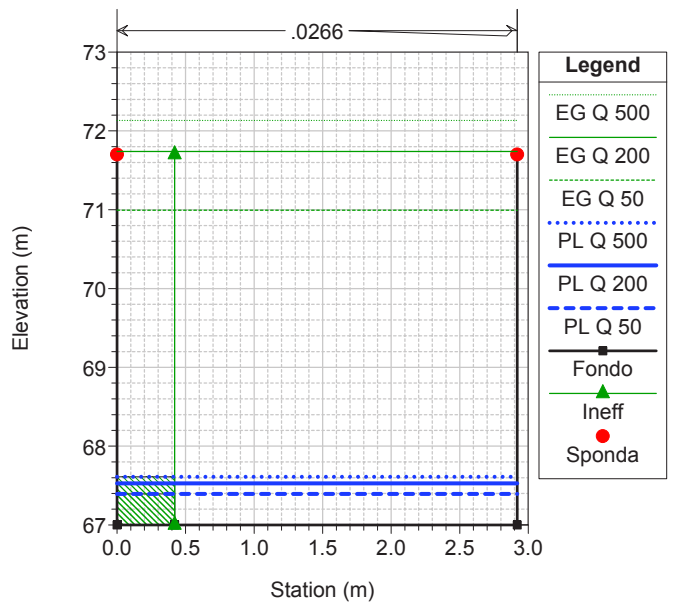
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 431 30 - TESTA SALTO



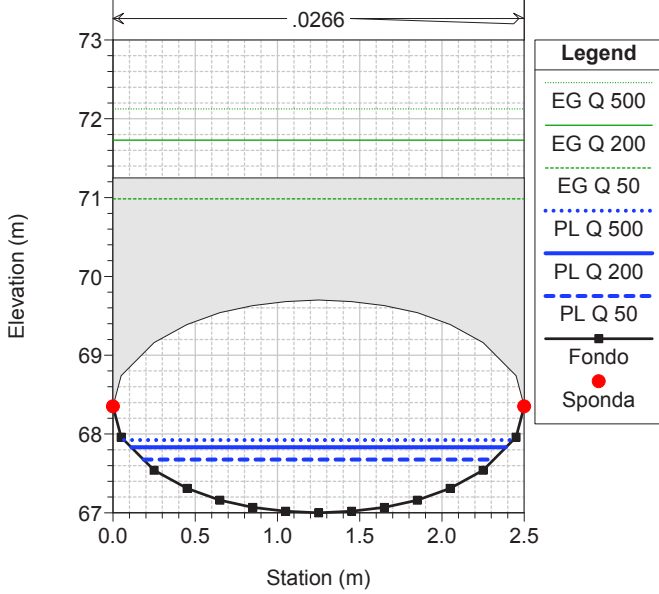
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 430 430 - PIEDE SALTO



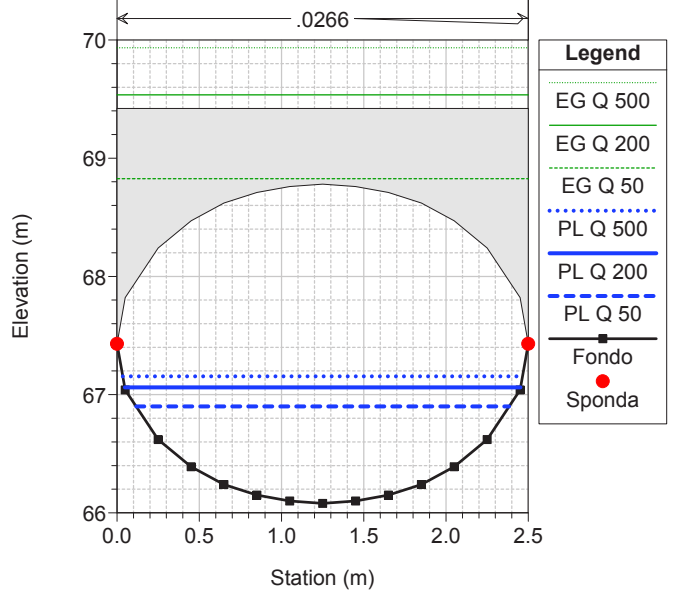
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 425 420 - FINE TRATTO CIELO APERTO



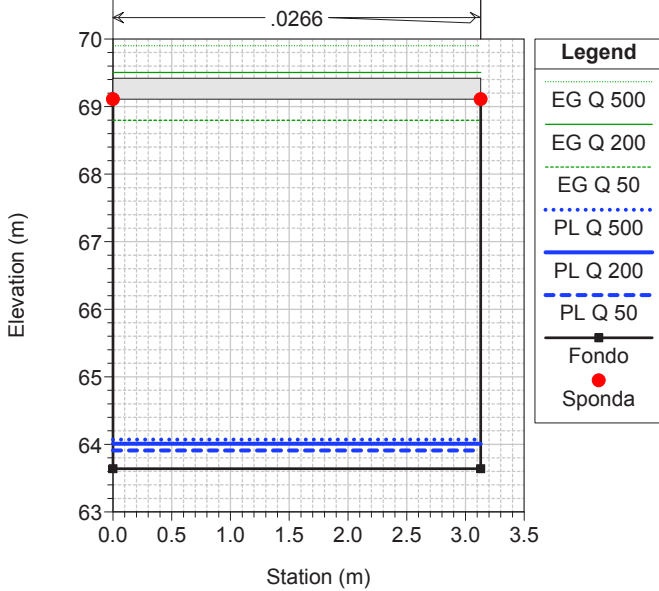
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 420 420 - INIZIO 1° TRATTO TUBO



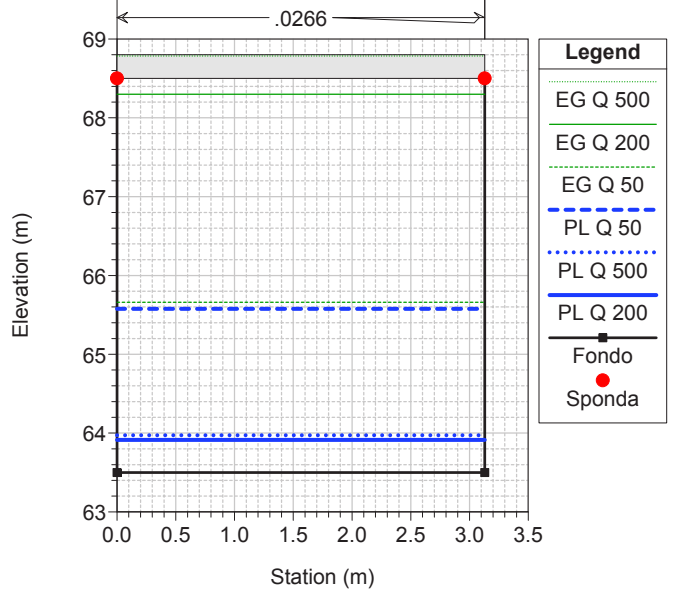
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 415 410 - FINE 1° TRATTO TUBO



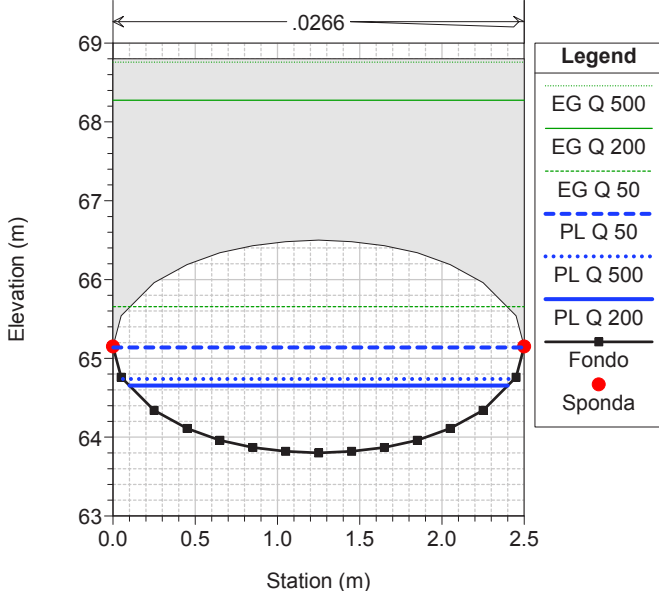
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 410 410 - INIZIO 1° VASCA



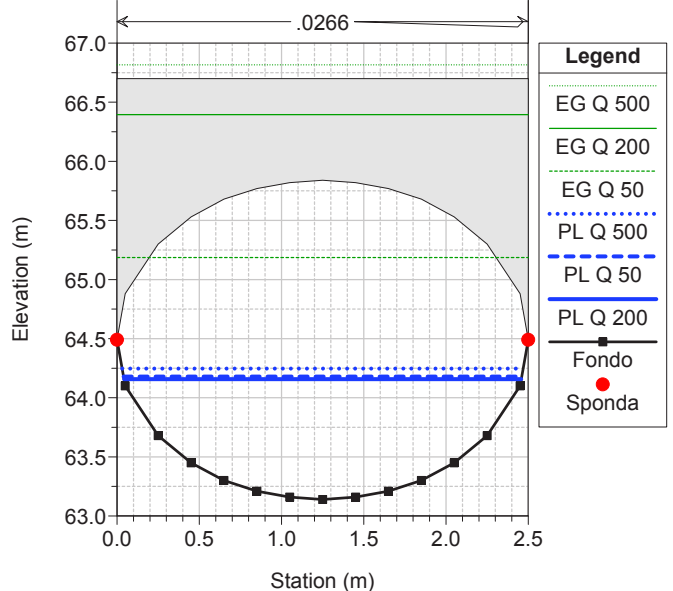
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 405 400 - FINE 1° VASCA



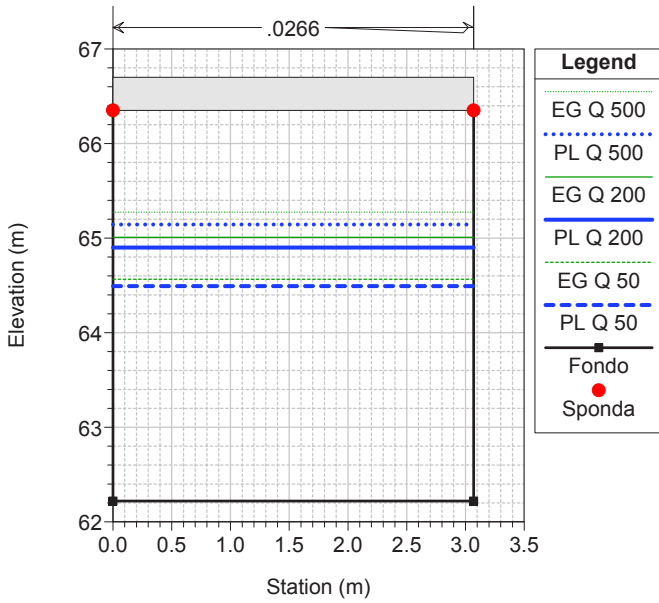
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 400 400 - INIZIO 2° TRATTO TUBO



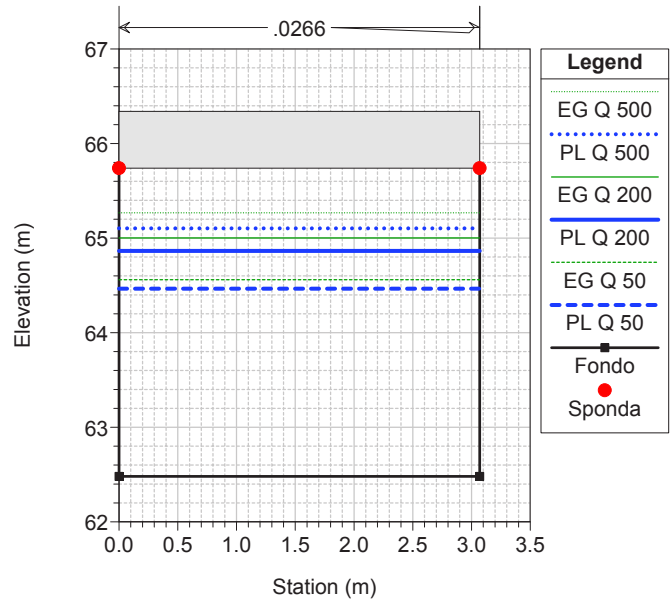
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 395 390 - FINE 2° TRATTO TUBO



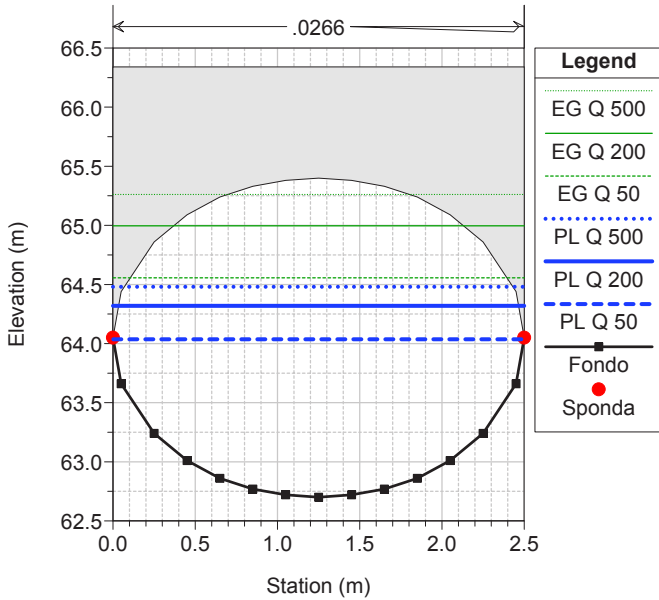
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 390 390 - INIZIO 2° VASCA



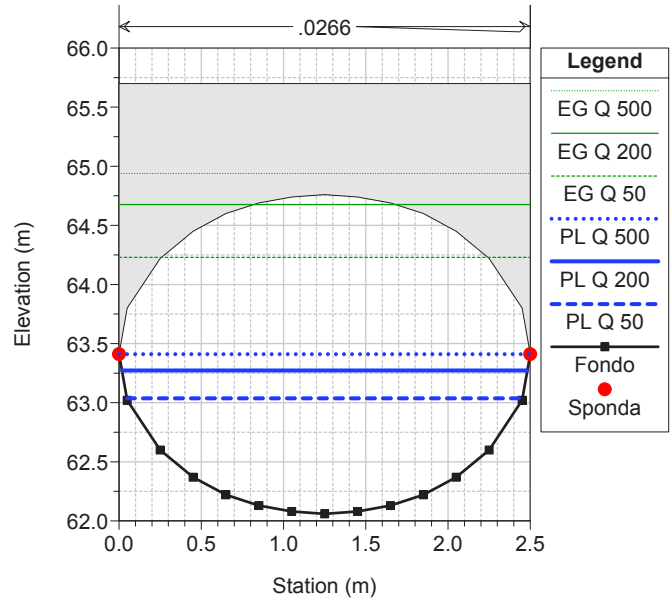
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 385 380 - FINE 2° VASCA



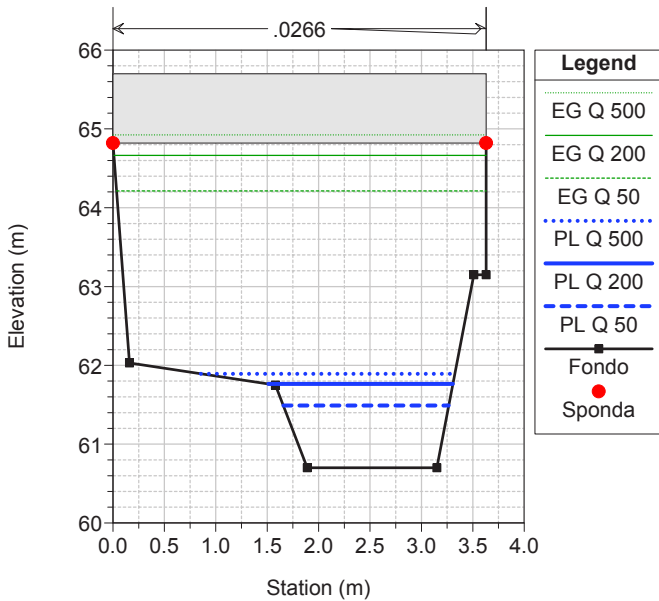
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 380 380 - INIZIO 3° TRATTO TUBO



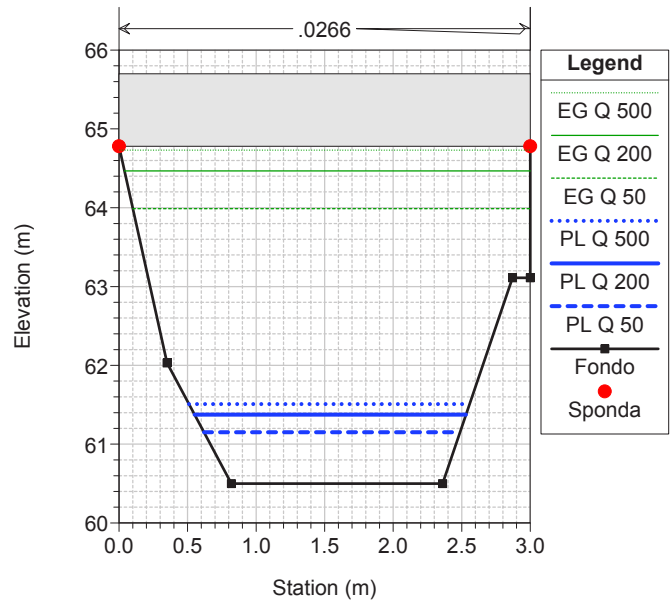
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 375 370 - FINE 3° TRATTO TUBO



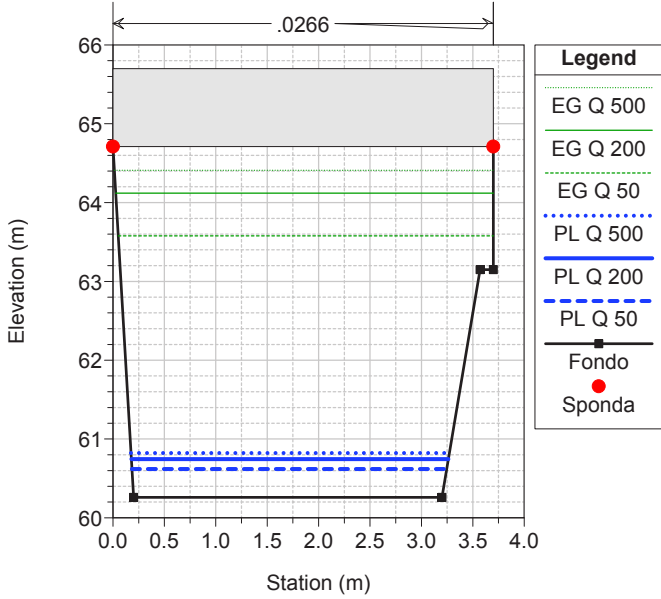
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 370 370 - INIZIO CAMERONE



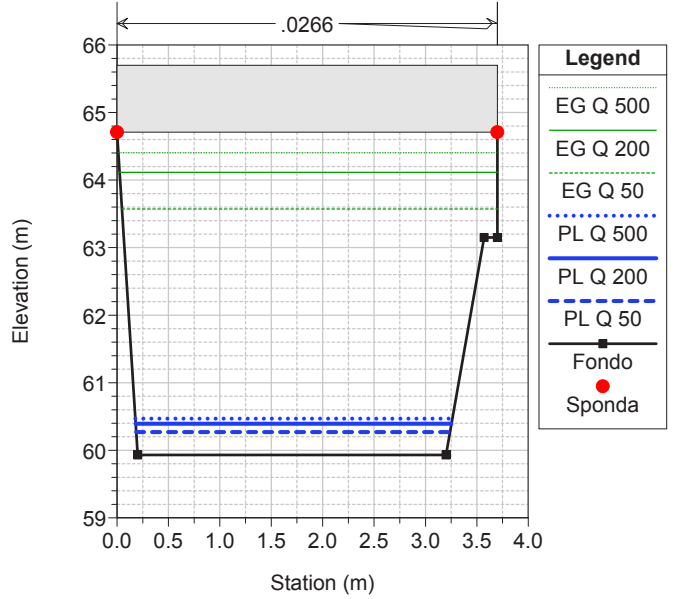
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 360 360 - CAMERONE



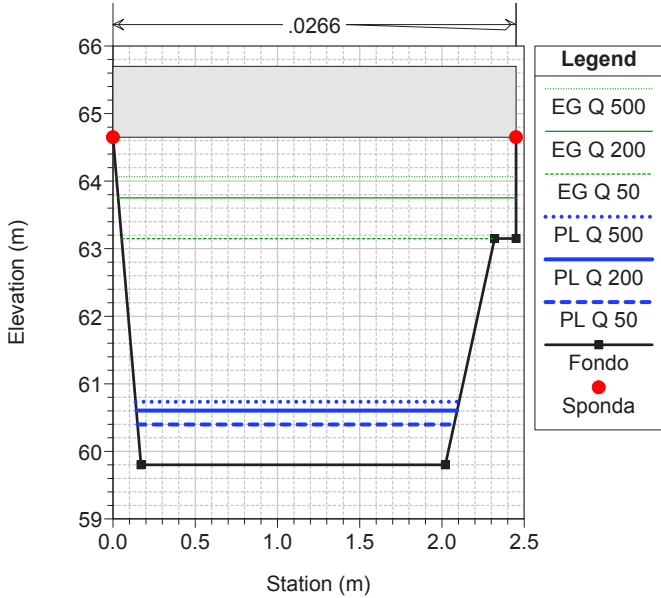
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 355 350 - CAMERONE - SALTO DI FONDO



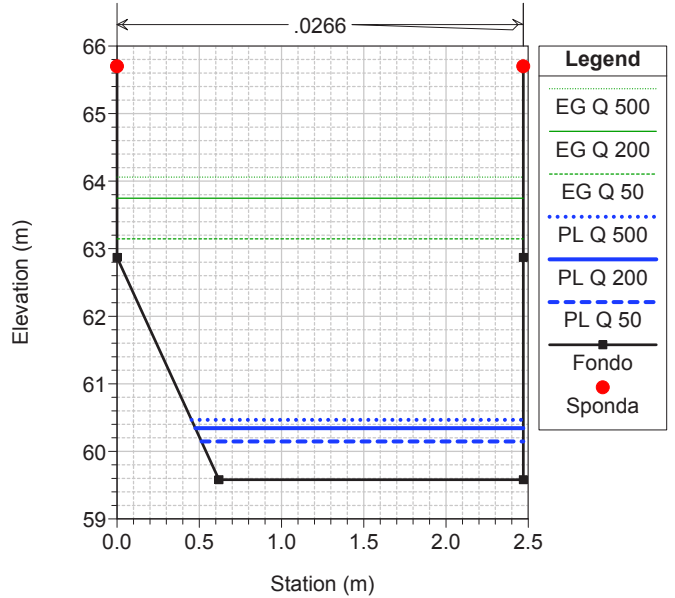
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 350 350 - CAMERONE



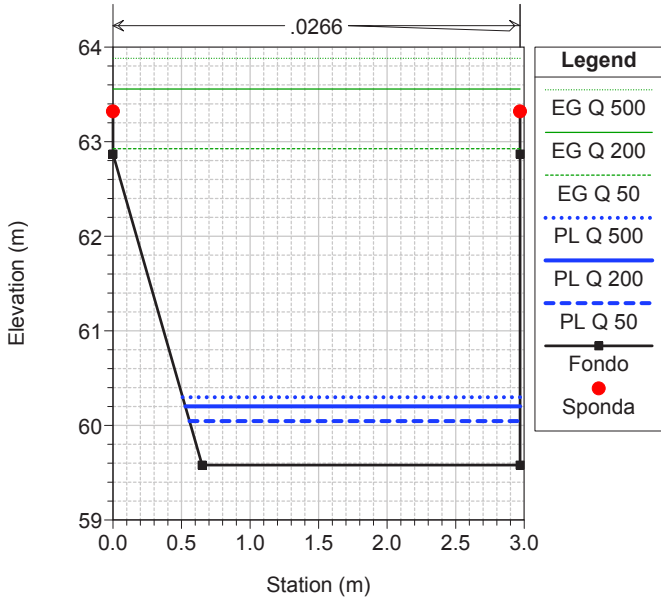
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 345 340 - CAMERONE - 2° SALTO DI FONDO



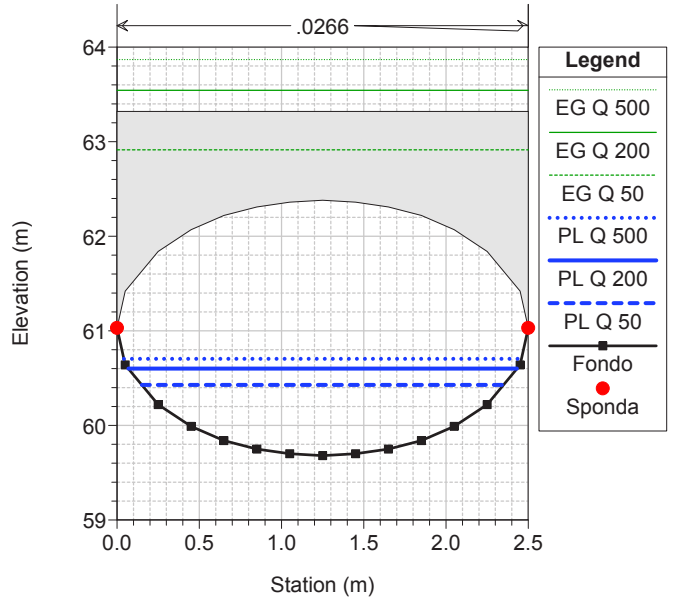
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 340 340 - CAMERONE



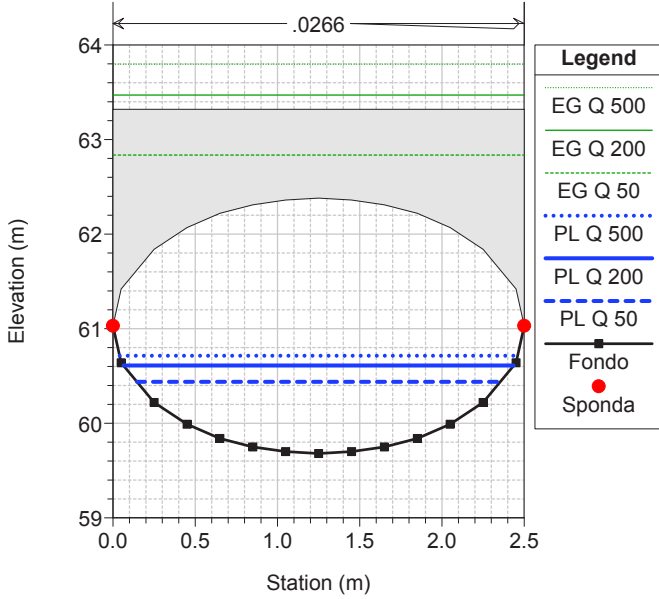
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 330 330 - FINE CAMERONE



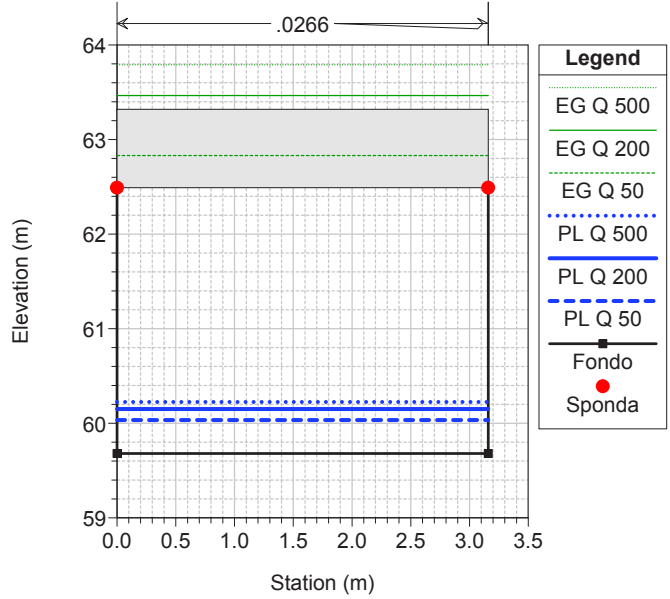
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 329 330 - INIZIO TUBO CASSERO



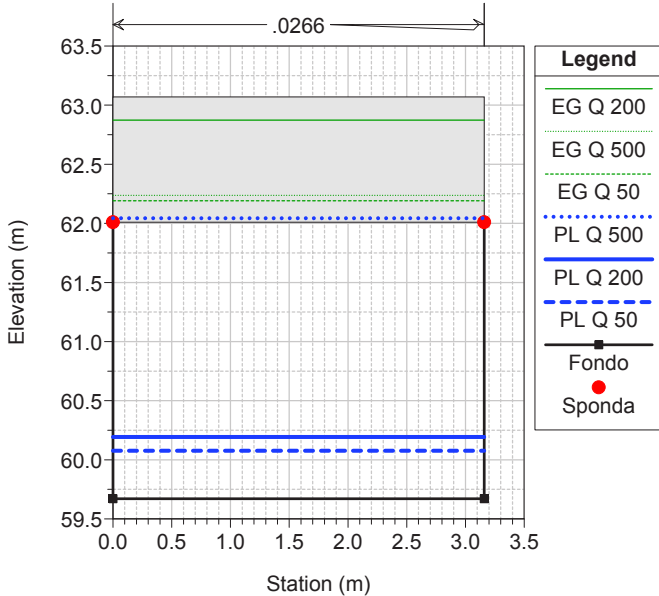
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 325 320 - FINE TUBO CASSERO



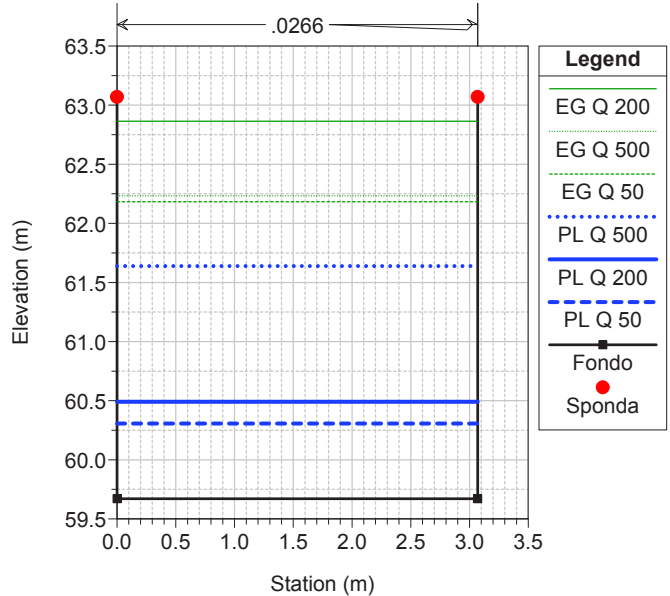
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 320 320 - INIZIO RACCORDO



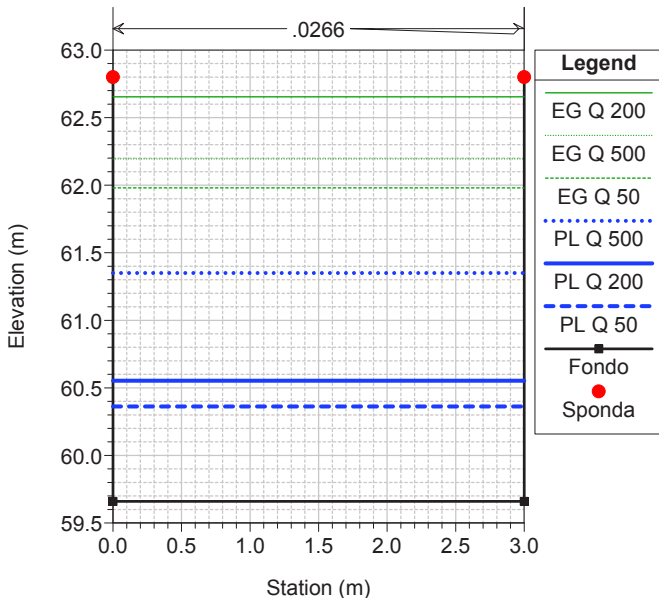
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 316 315 - FINE SOLETTA



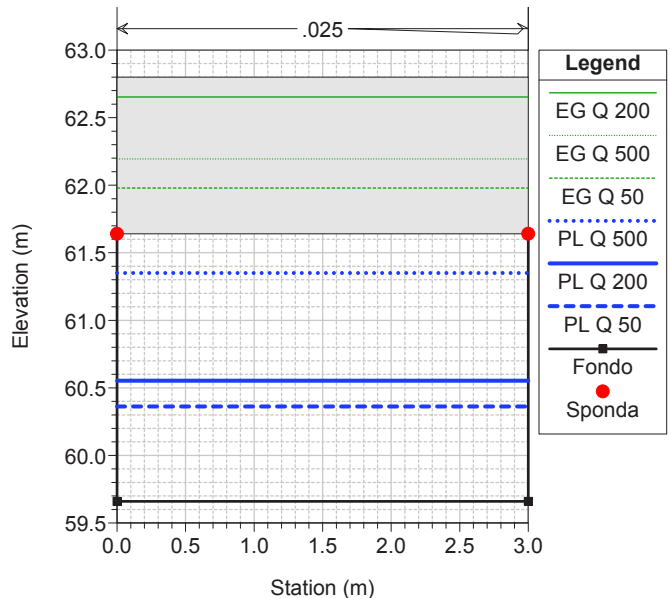
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 315 315 - INIZIO GRIGLIA - IMMISSIONE PORTATA



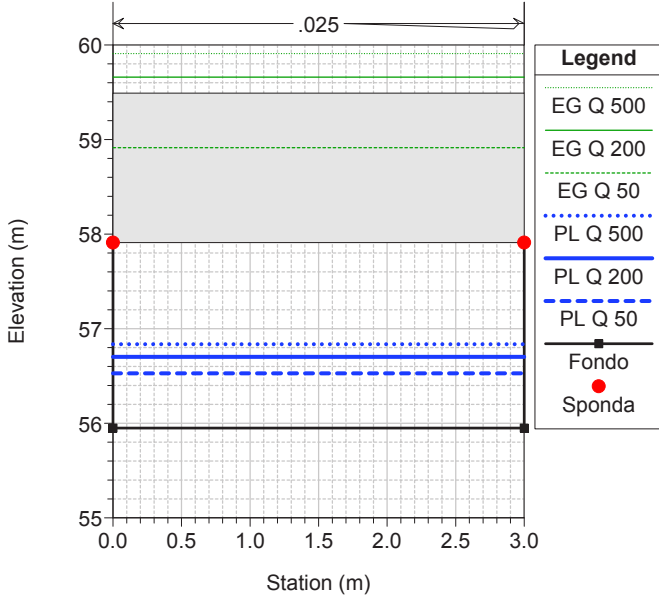
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 311 310 - FINE GRIGLIA



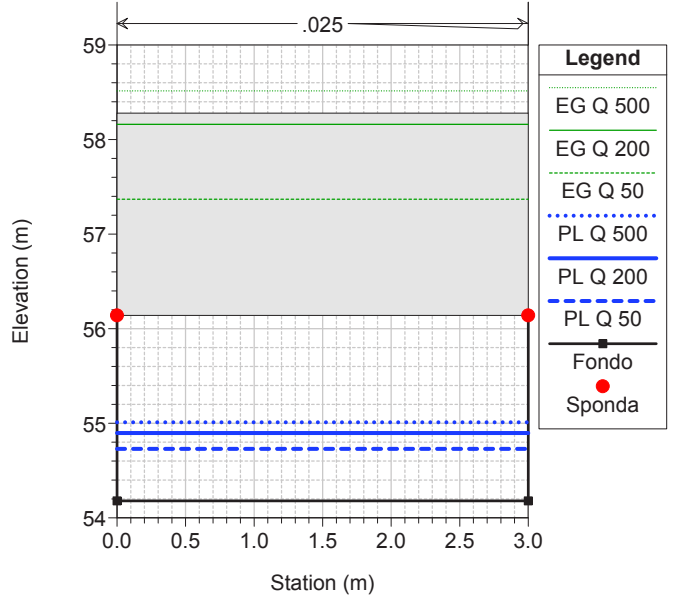
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 310 310 - FINE RACCORDO - INIZIO SCATOLARE C.A.P.



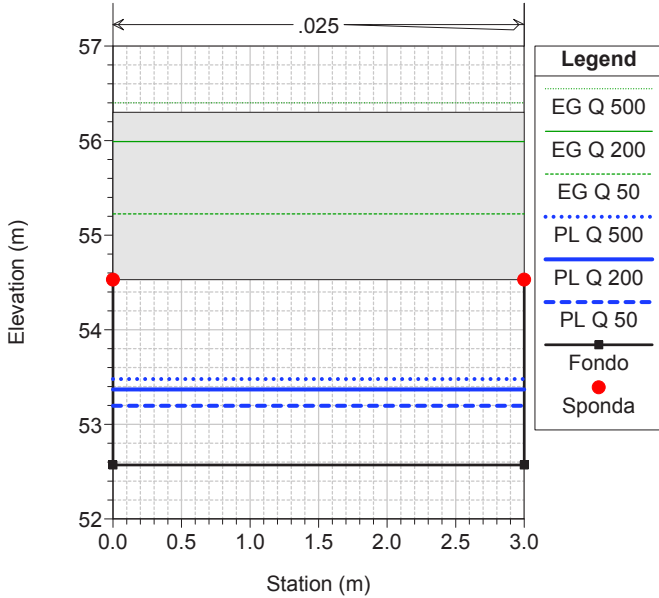
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 300 300 - SCATOLARE C.A.P.



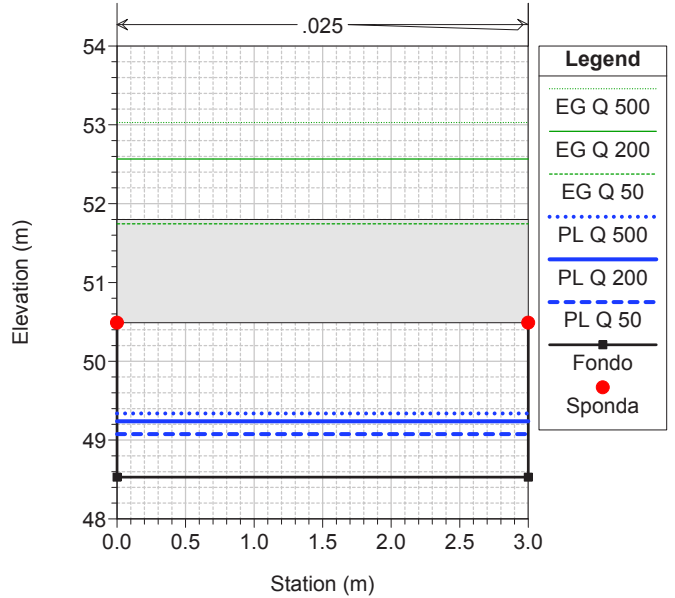
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 290 290 - SCATOLARE C.A.P.



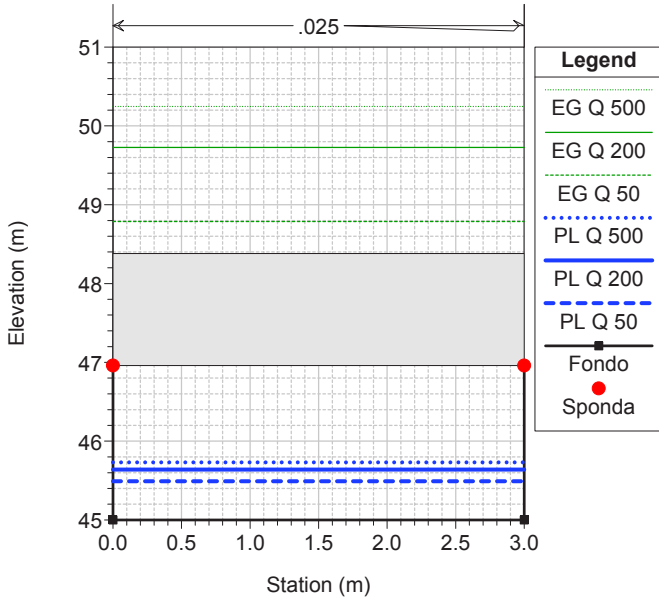
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 280 280 - SCATOLARE C.A.P.



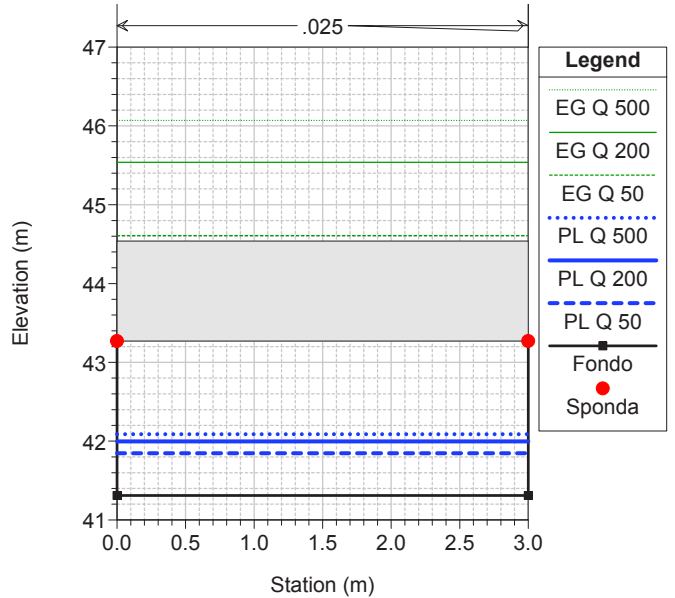
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 270 270 - SCATOLARE C.A.P.



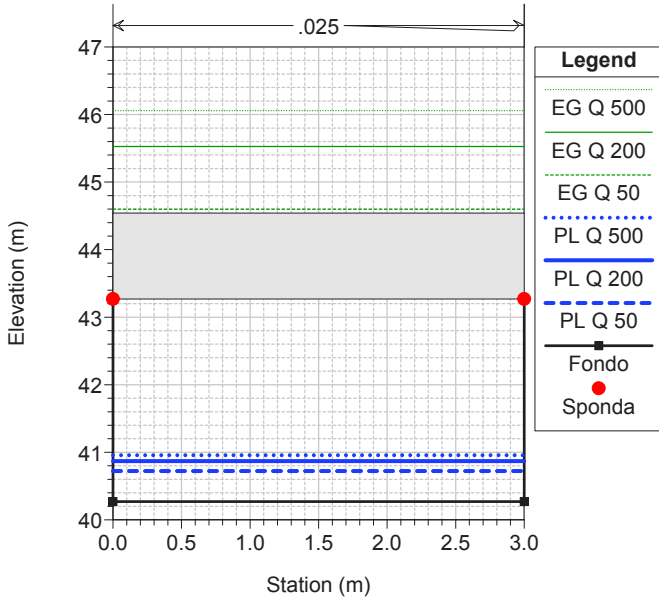
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 260 260 - SCATOLARE C.A.P.



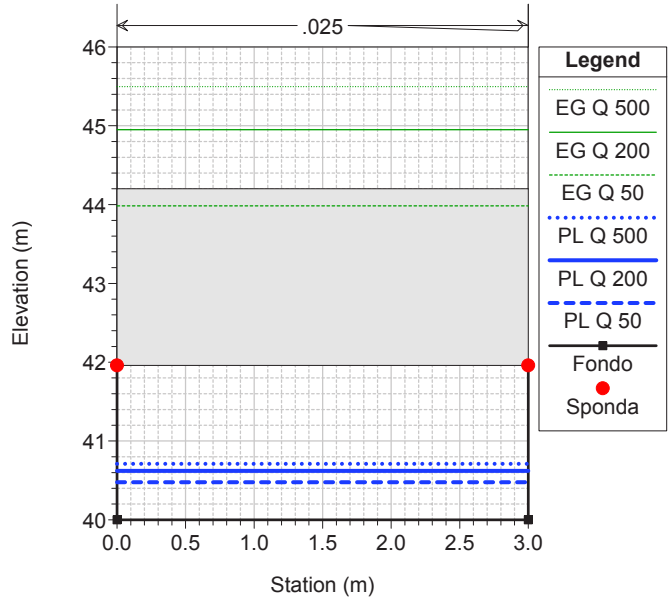
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 251 250 - FINE SCATOALRE C.A.P.



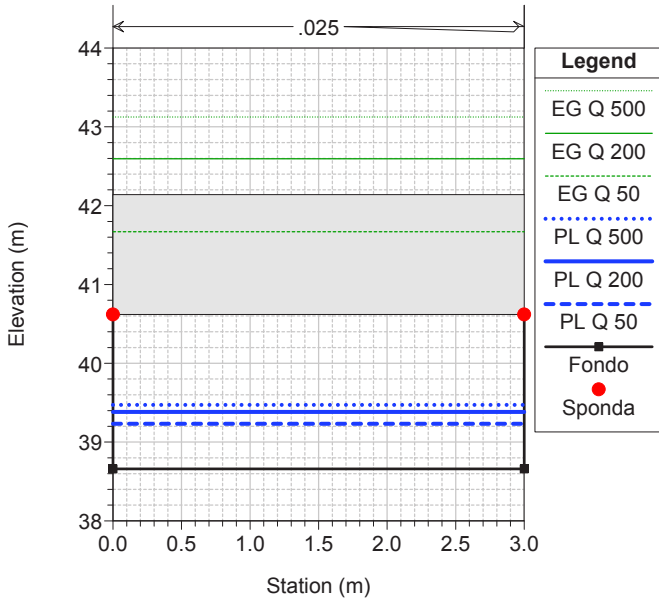
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 250 250 - PIEDE SALTO DI FONDO



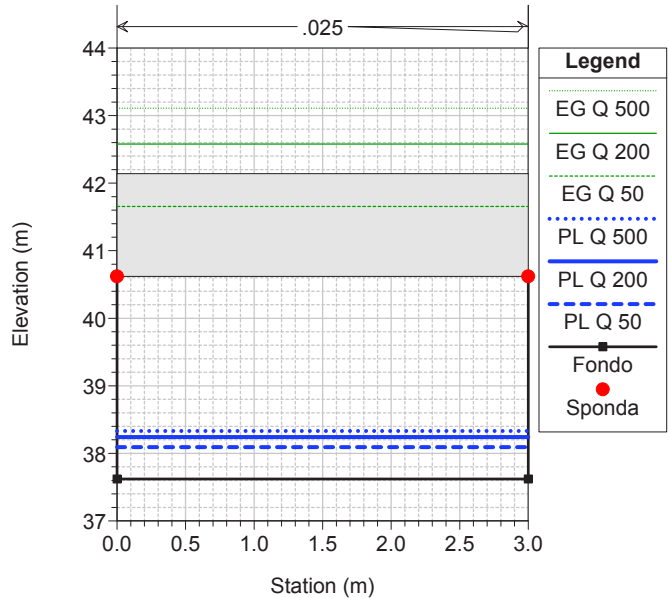
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 240 240 - INIZIO SCATOLARE C.A.P.



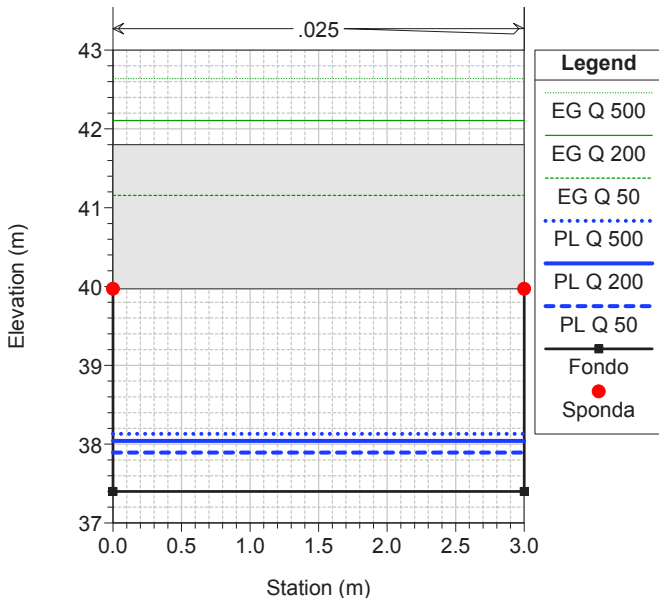
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 230 230 - FINE SCATOLARE C.A.P. - TESTA SALTO



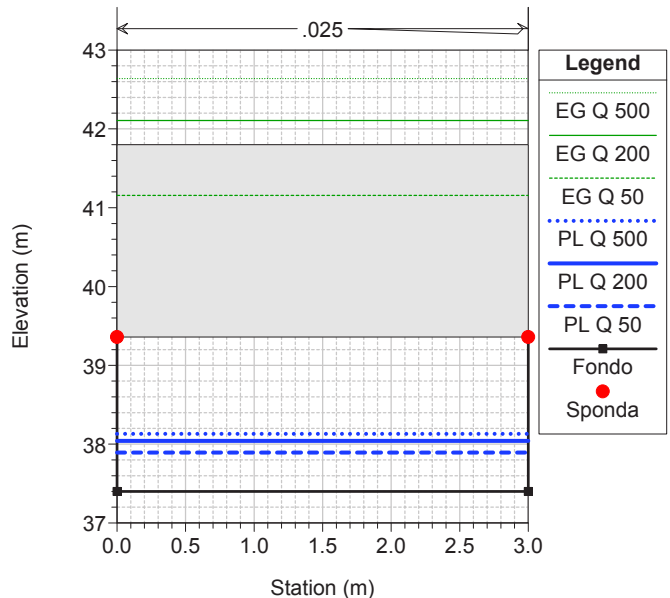
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 225 230 - PIEDE SALTO INIZIO CAMERONE



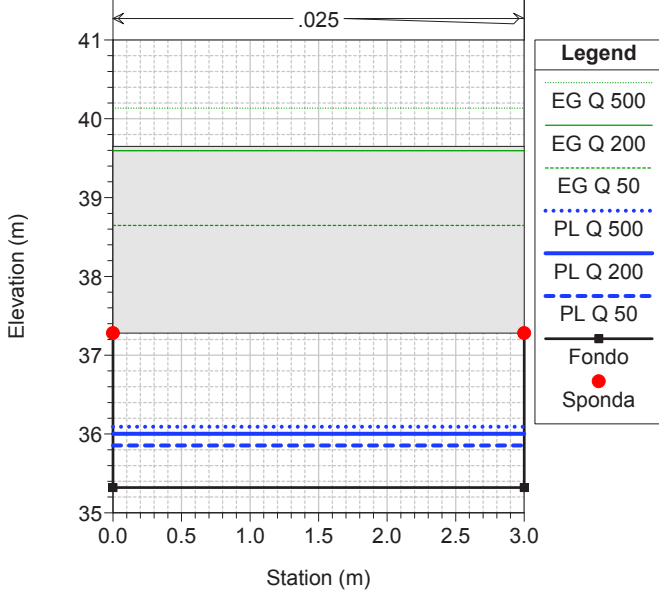
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 220 220 - FINE CAMERONE



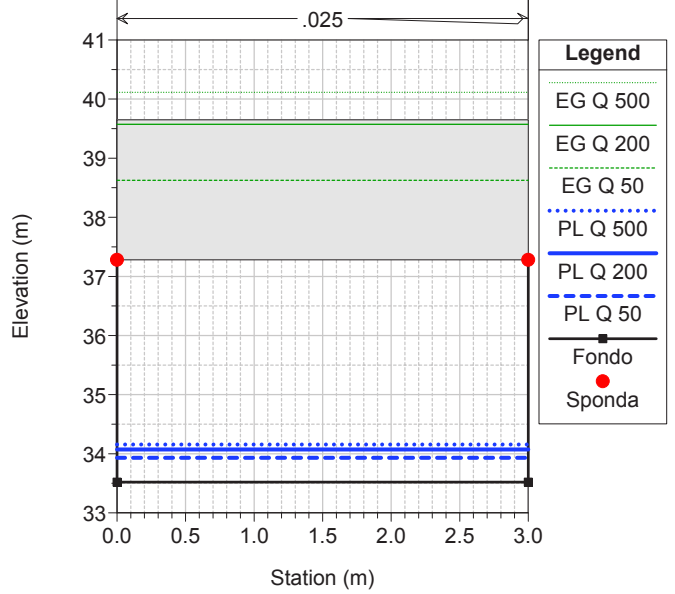
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 215 220 - INIZIO SCATOLARE C.A.P.



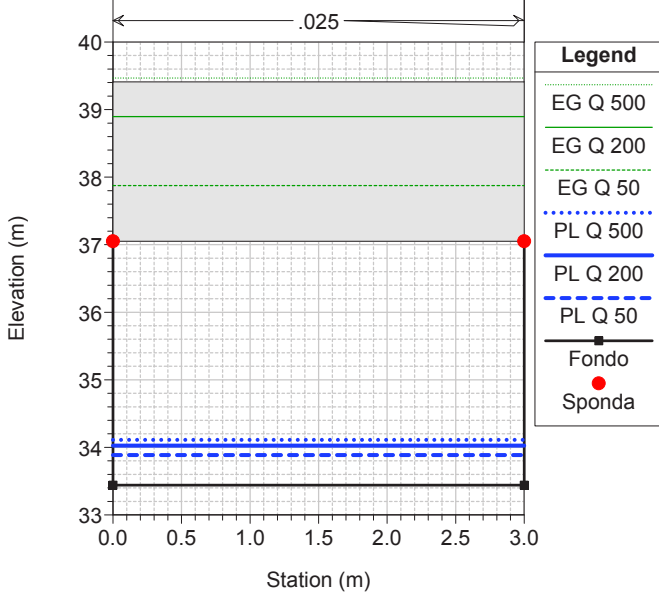
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 210 210 - FINE SCATOLARE C.A.P. - TESTA SALTO



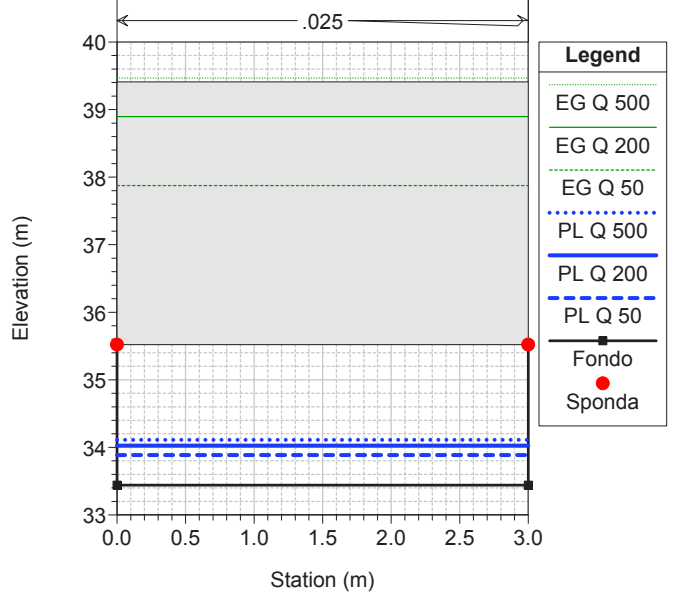
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 205 210 - PIEDE SALTO - INIZIO CAMERONE



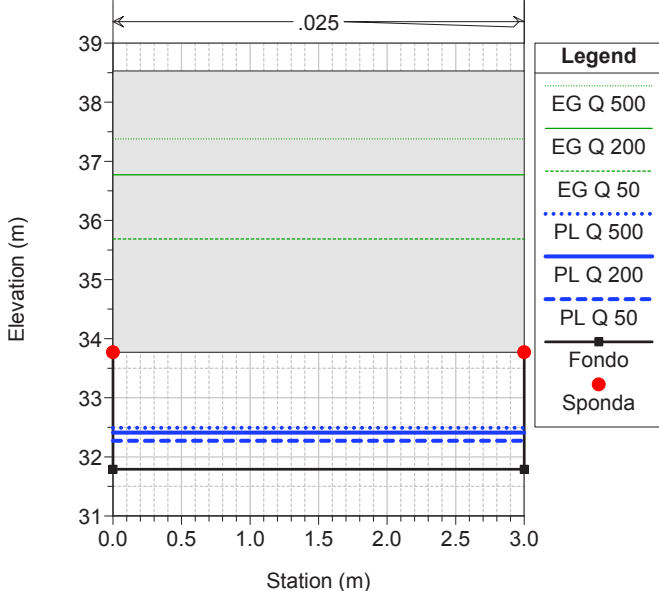
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 200 200 - FINE CAMERONE



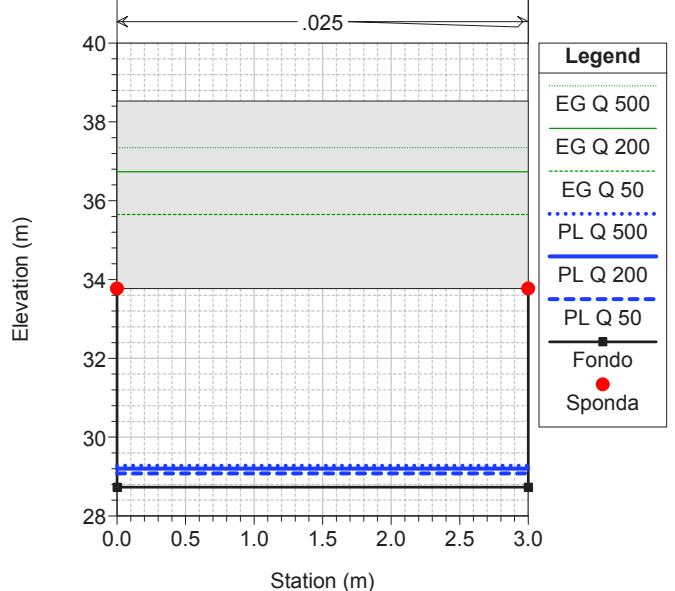
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 195 200 - INIZIO TOMBINO



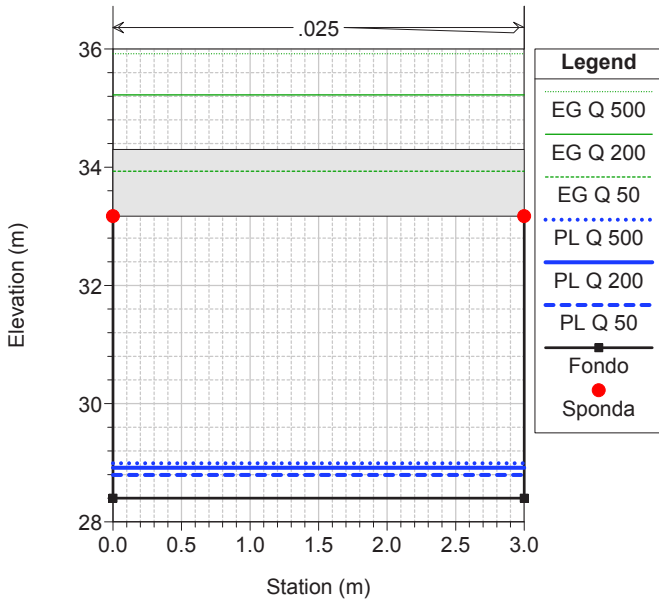
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 190 190 - FINE TOMBINO - TESTA SALTO



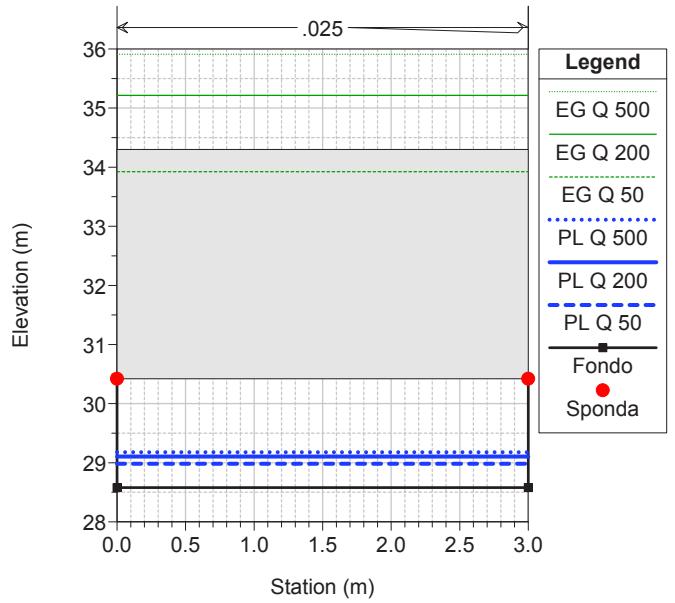
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 185 190 - PIEDE SALTO - INIZIO CAMERONE



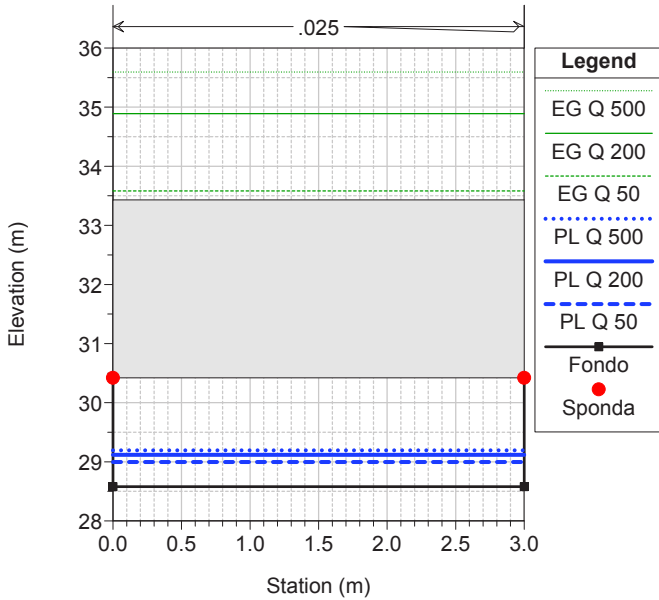
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 180 180 - FINE CAMERONE -



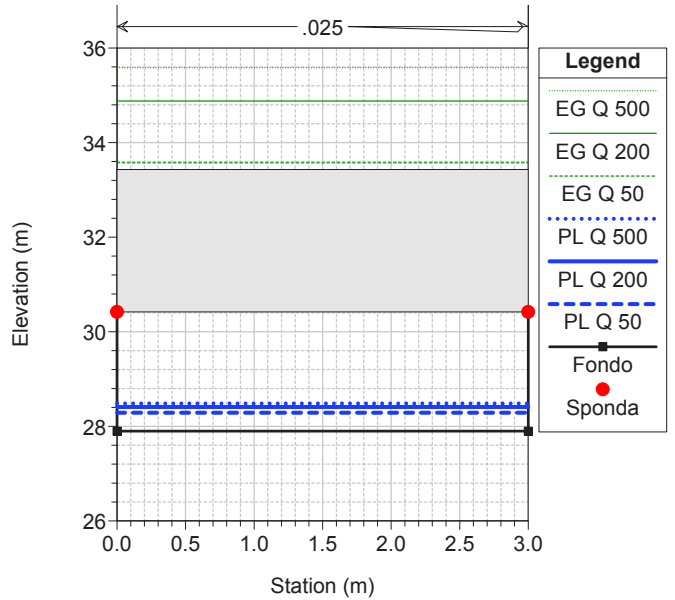
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 175 180 - INIZIO DENTE



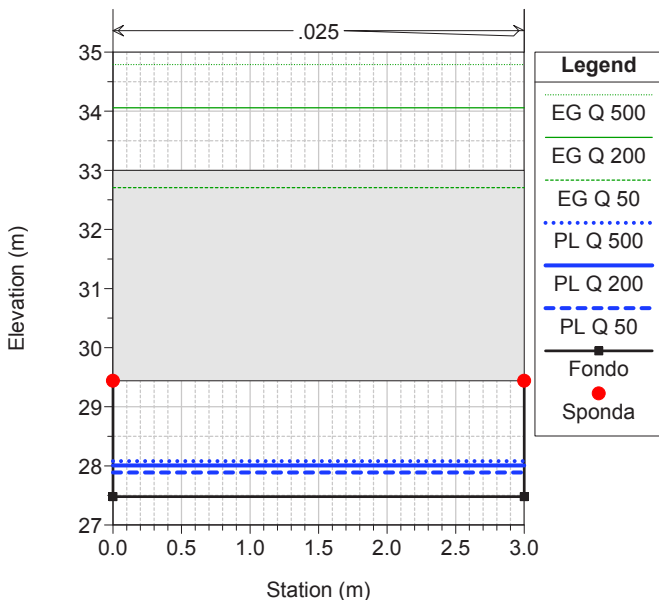
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 170 170 - FINE DENTE



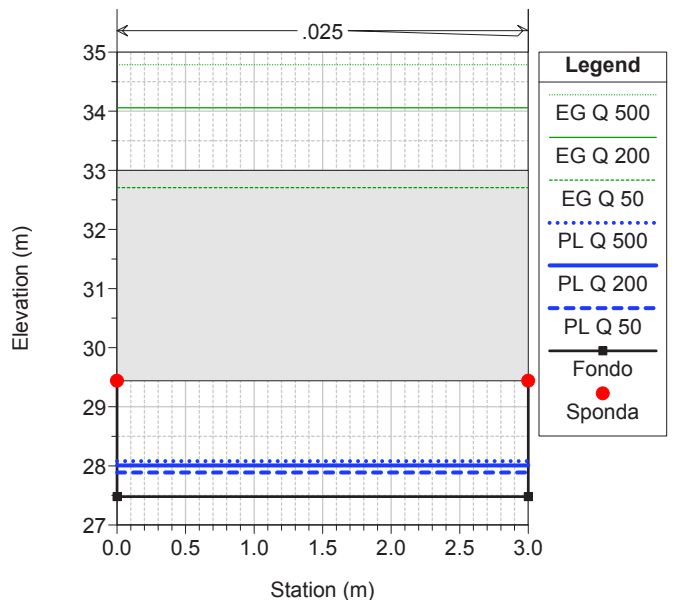
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 165 170 - INIZIO CAMERONE



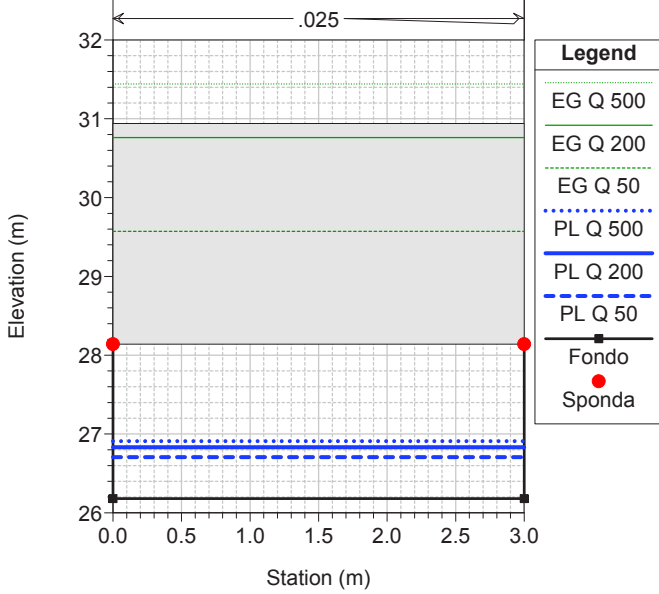
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 160 160 - FINE CAMERONE



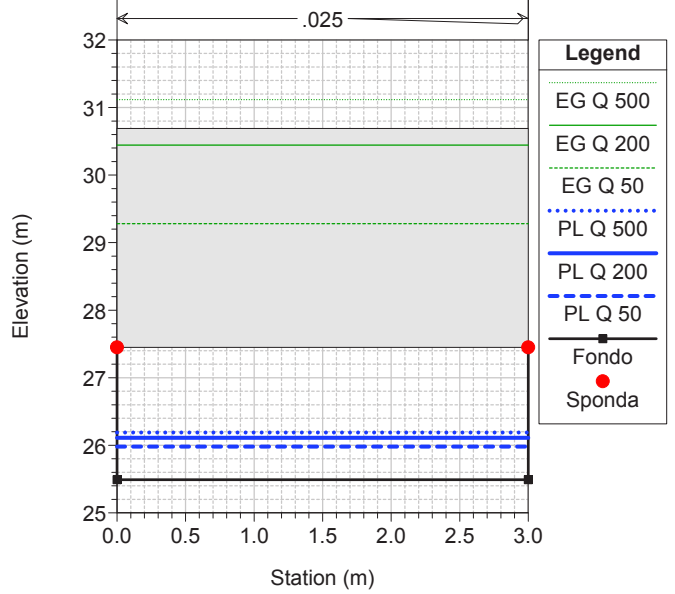
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 155 160 - INIZIO SCATOALRE IN C.A.P.



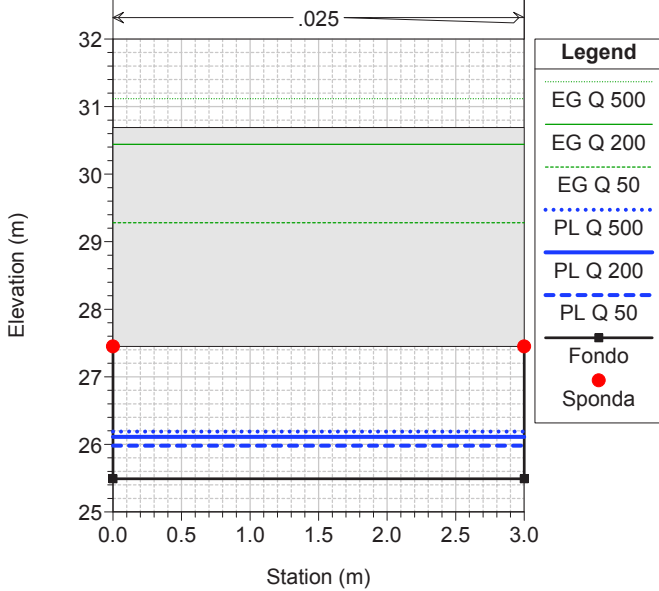
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 150 150 - FINE SCATOLARE IN C.A.P. IMMISSIONE CANALE IN DX



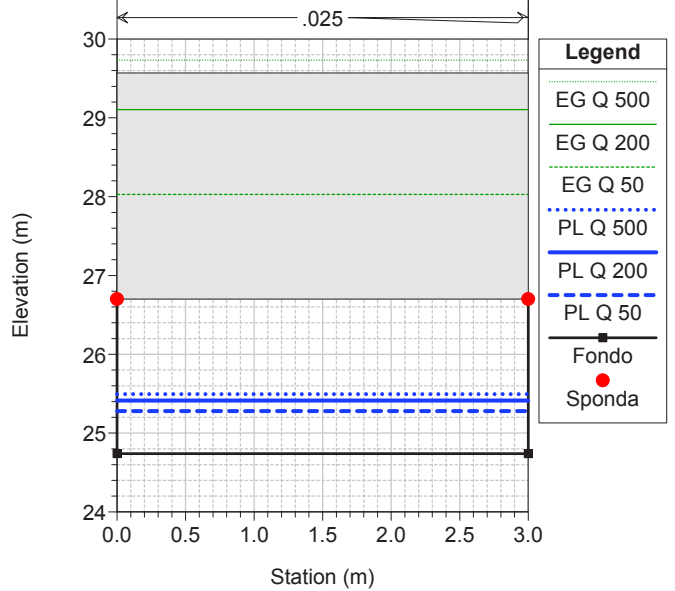
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 145 140 - FINE IMMISSIONE CANALE IN DX



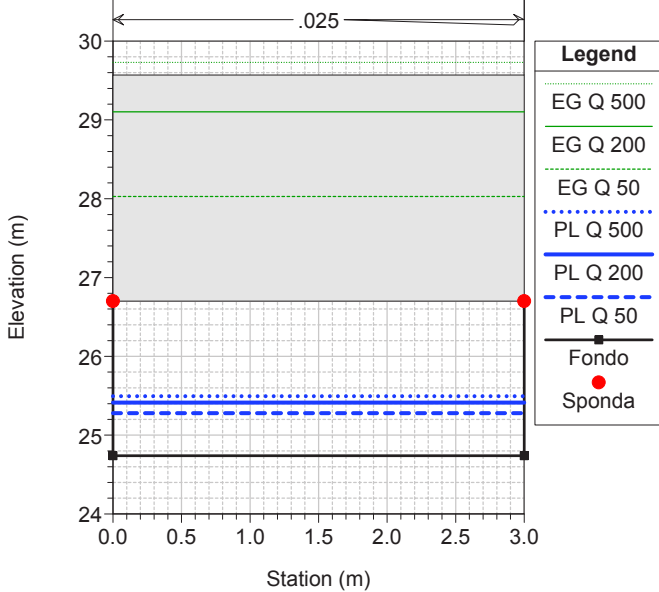
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 140 140 - INIZIO SCATOALRE IN C.A.P.



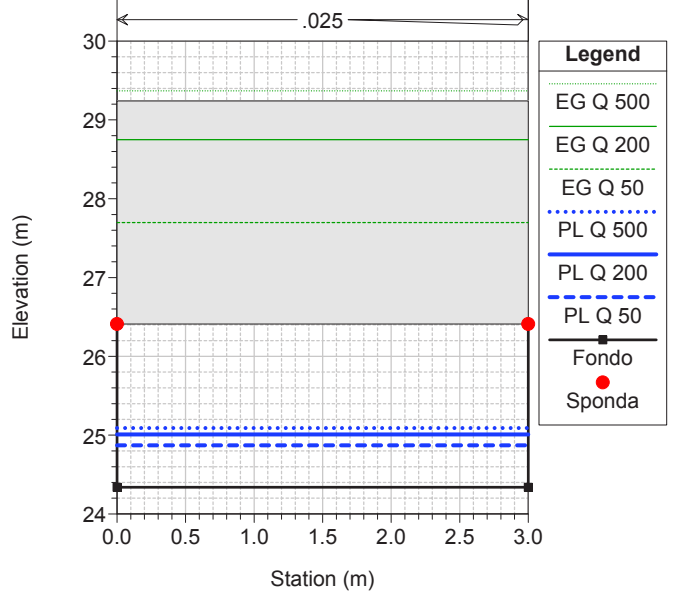
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 135 130 FINE SCATOALRE IN C.A.P.



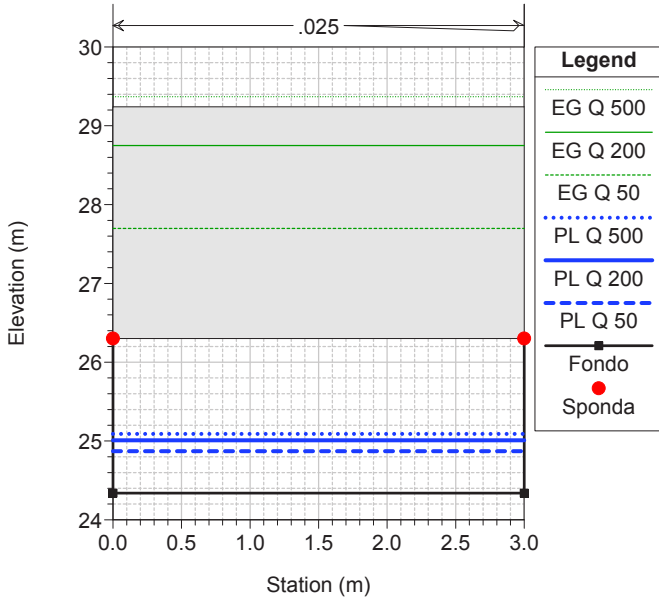
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 130 130 - INIZIO TOMBINO



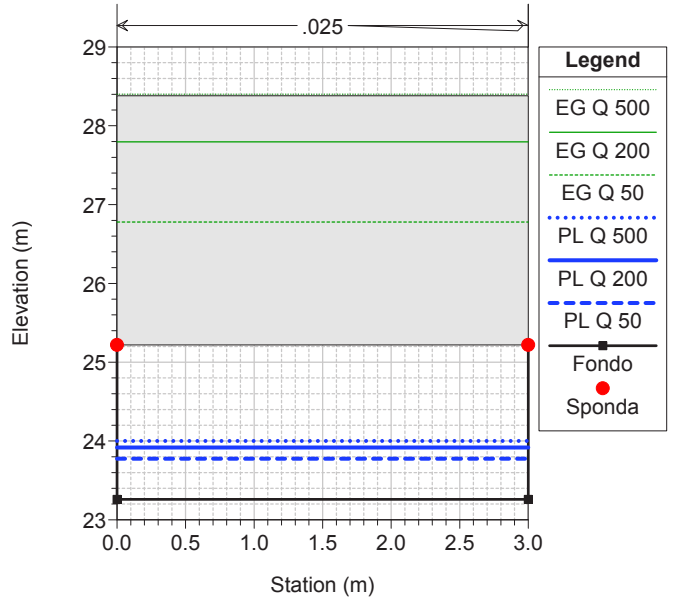
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 125 120 - FINE TOMBINO



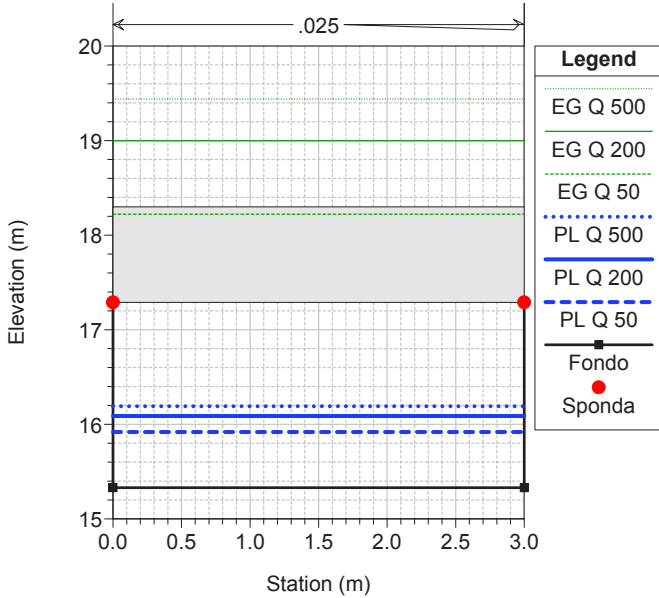
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 120 120 - INIZIO SCATOLARE IN C.A.P.



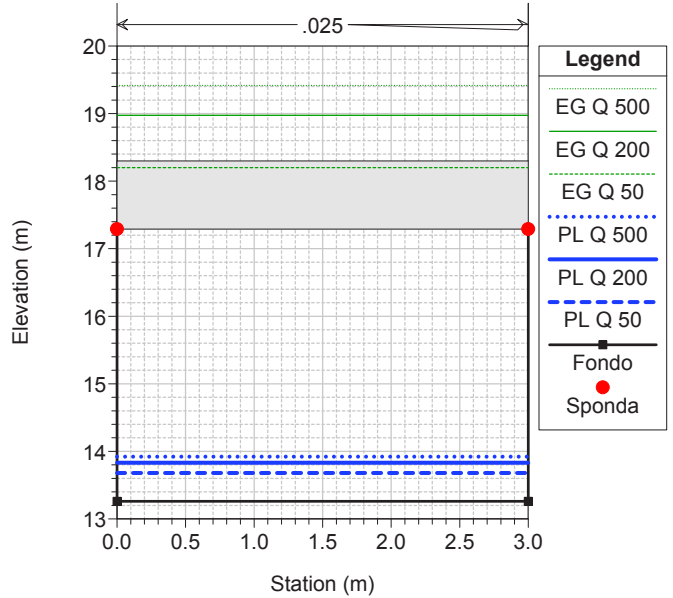
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 110 110 - SCATOLARE IN C.A.P.



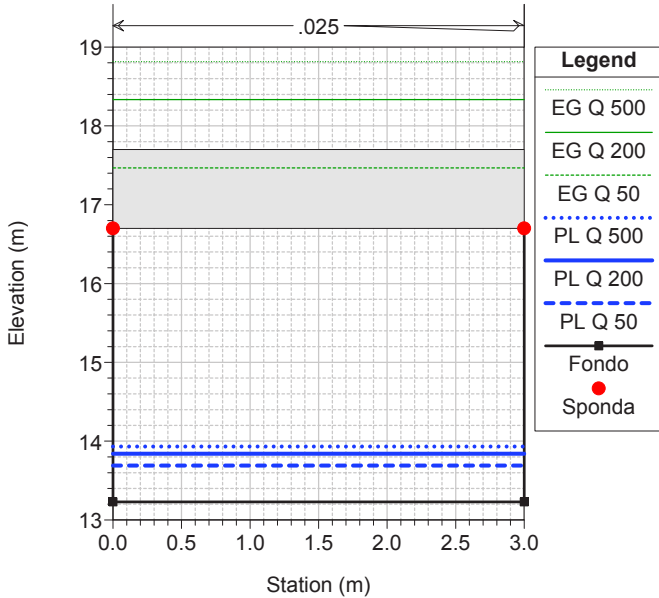
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 105 100 - FINE SCATOLARE IN C.A.P. - TESTA SALTO



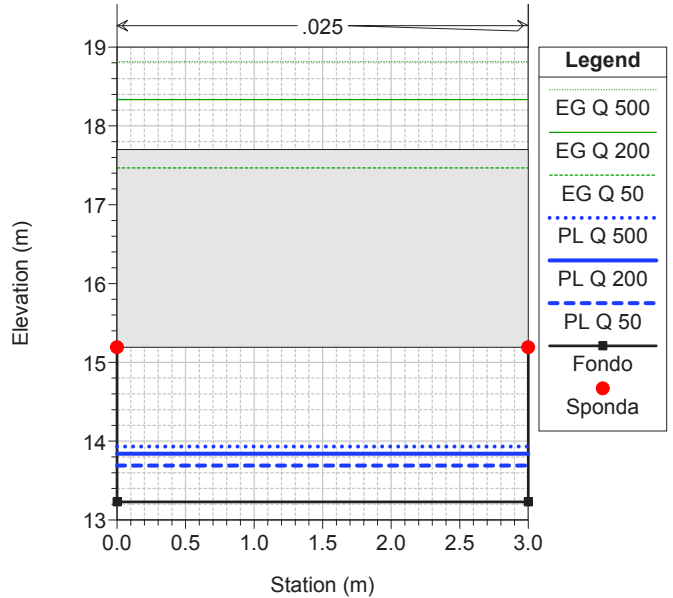
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 100 100 - PIEDE SALTO SALTO - INIZIO CAMERONE



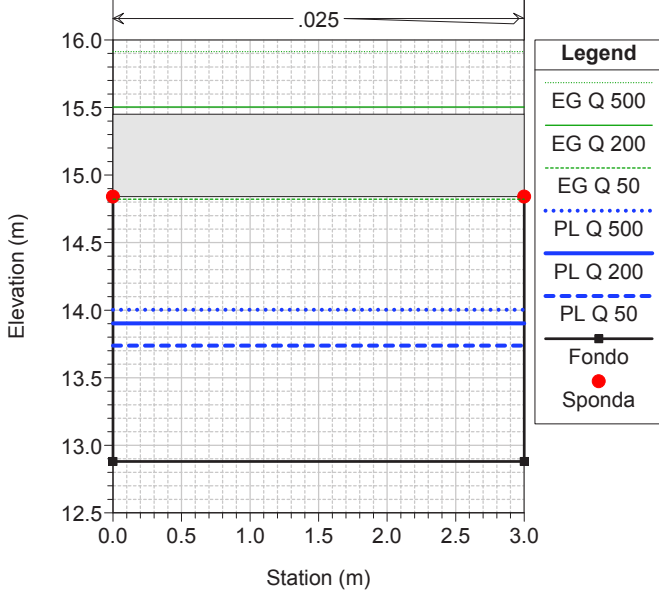
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 95 90 - FINE CAMERONE



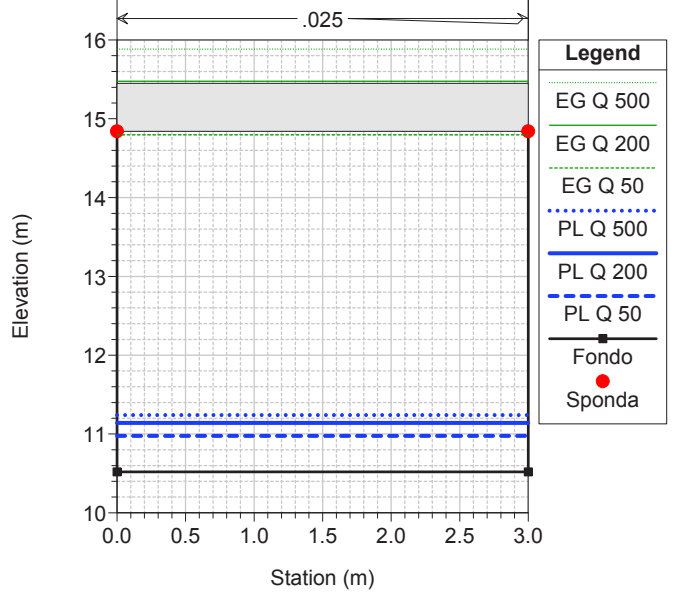
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 90 90 - INIZIO SCATOLARE IN C.A.P.



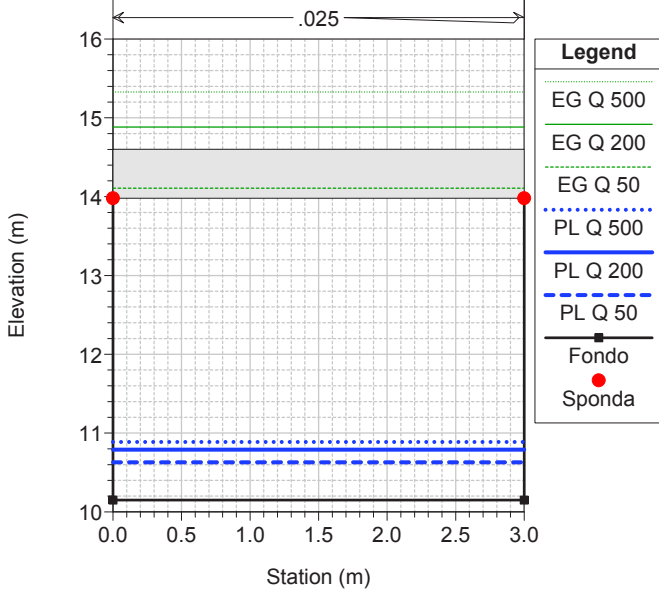
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 85 80 - FINE SCATOLARE IN C.A.P. - TESTA SALTO



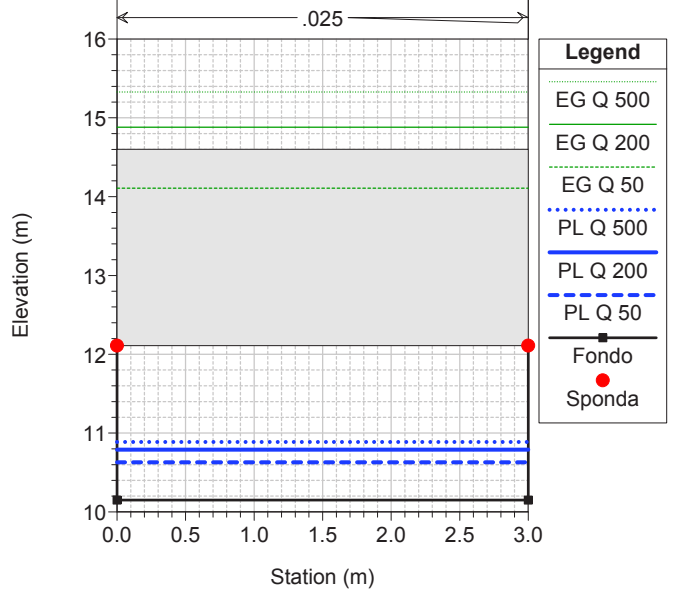
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 80 80 - PIEDE SALTO - INIZIO CAMERONE



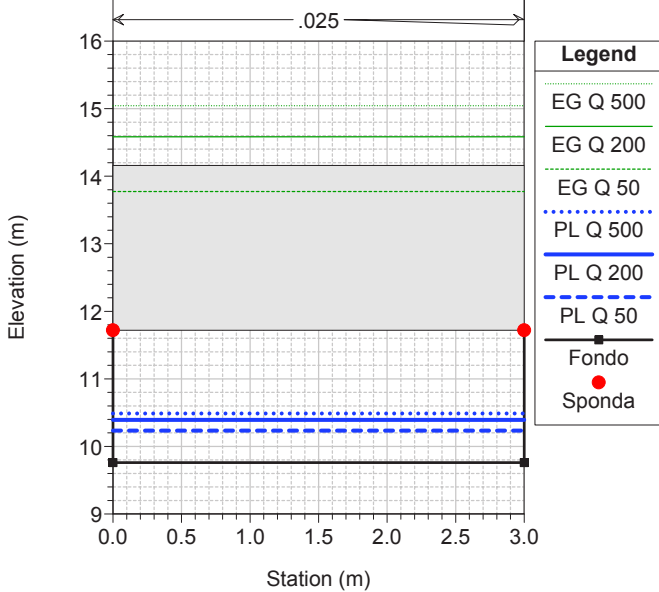
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 75 70 - FINE CAMERONE



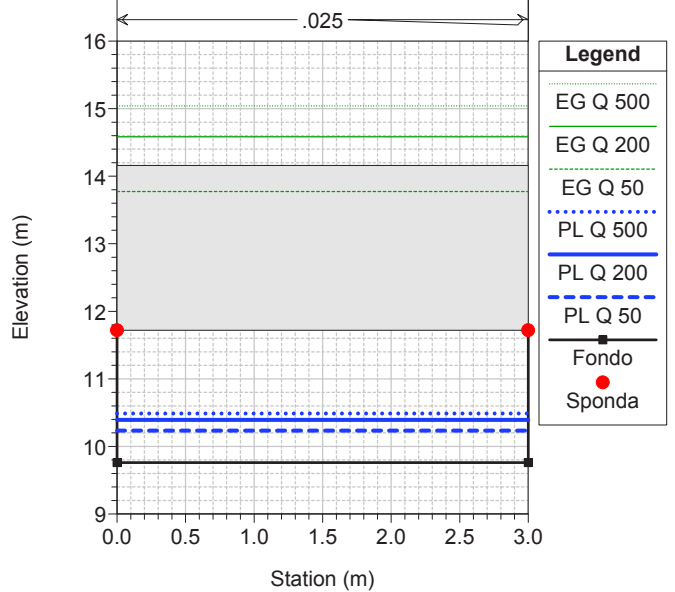
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 70 70 - INIZIO SCATOLARE C.A.P.



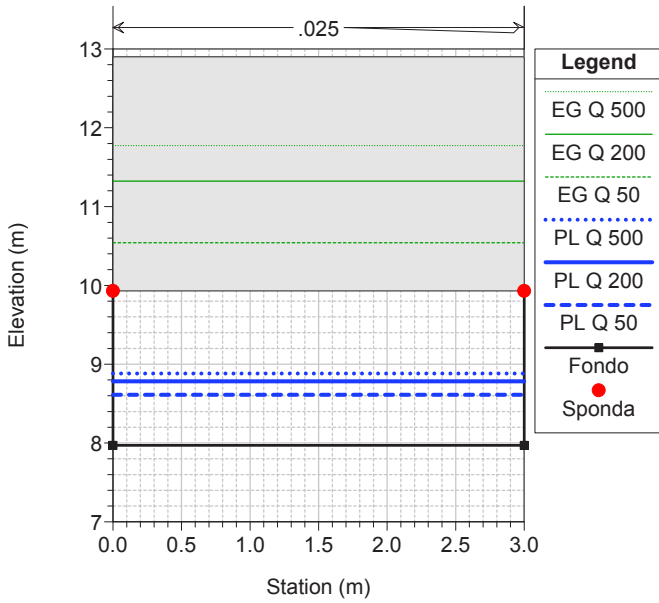
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 65 60 - FINE SCATOLARE C.A.P.



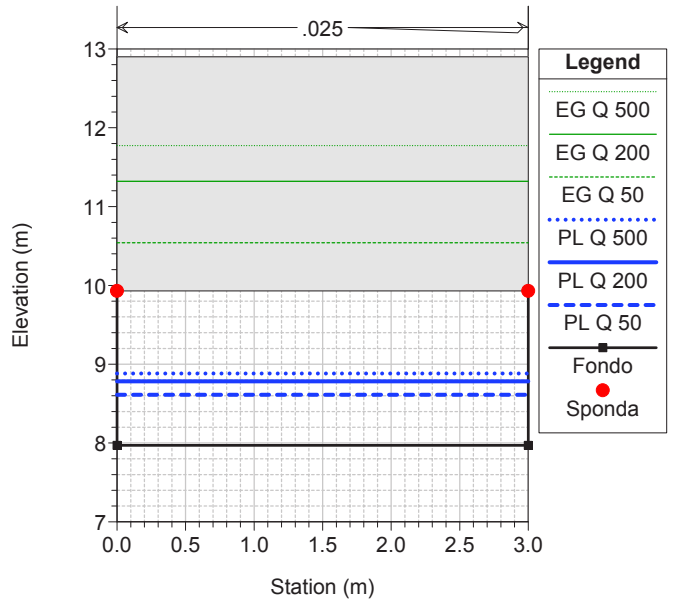
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 60 60 - INIZIO TOMBINATURA



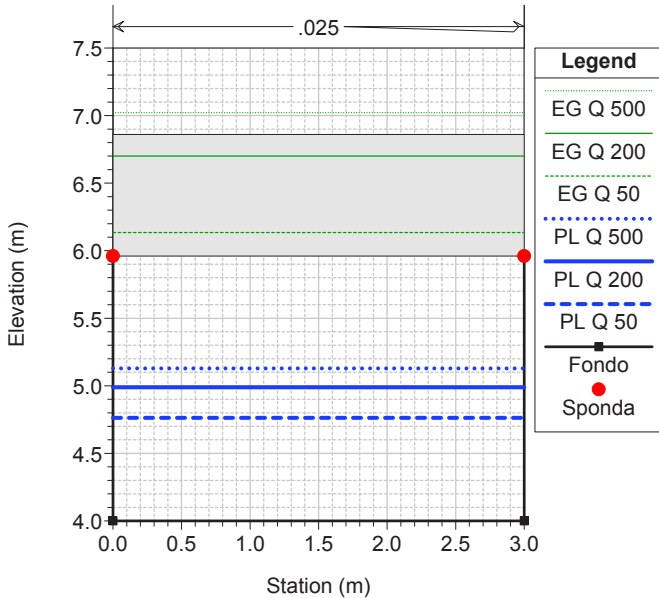
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 55 50 - FINE TOMBINATURA



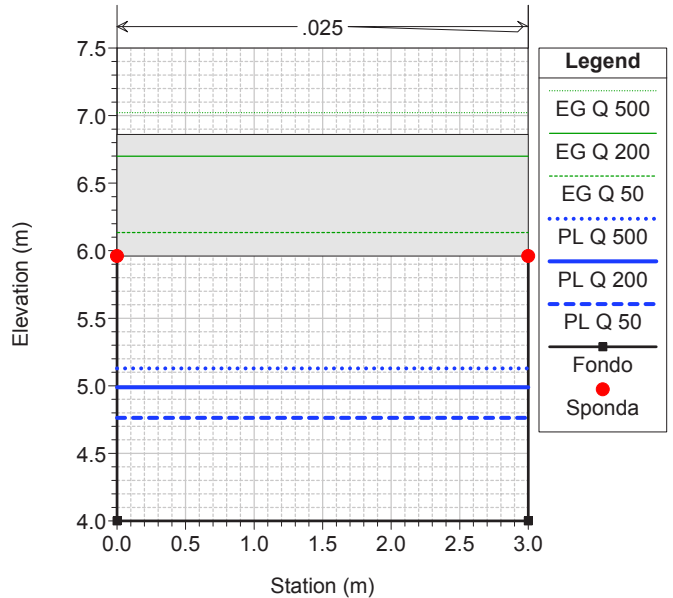
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 50 50 - INIZIO SCATOLARE IN C.A.P.



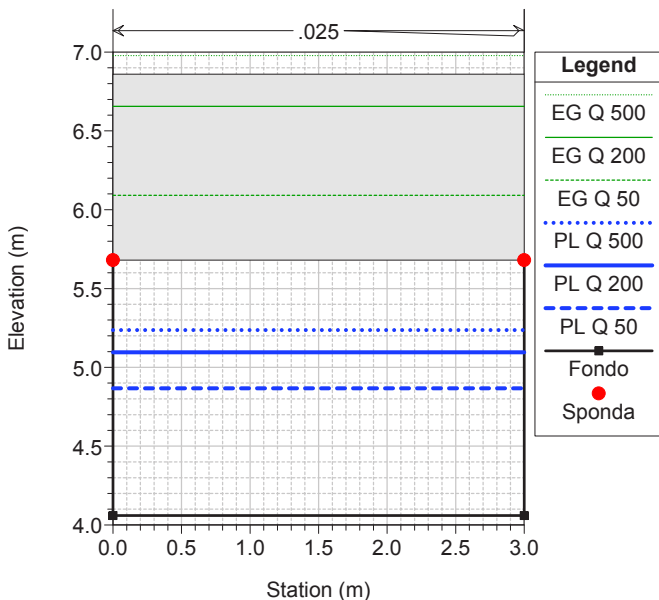
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 45 40 - FINE SCATOLARE IN C.A.P.



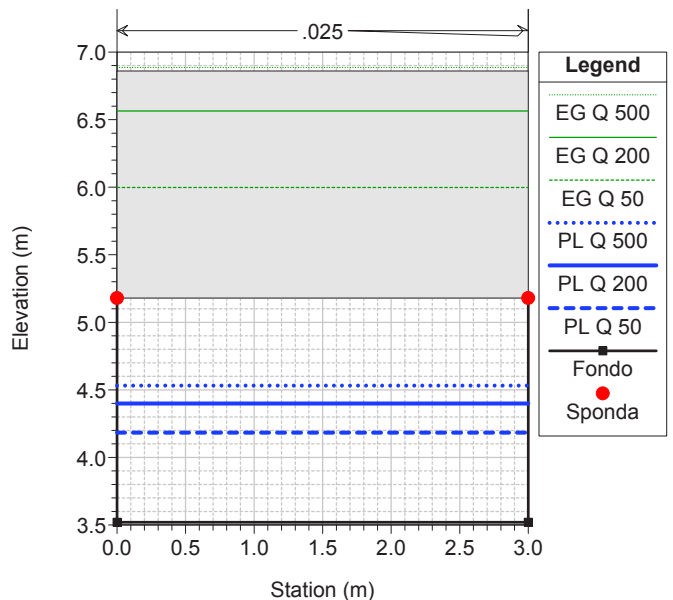
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 40 40 - INIZIO CAMERONE



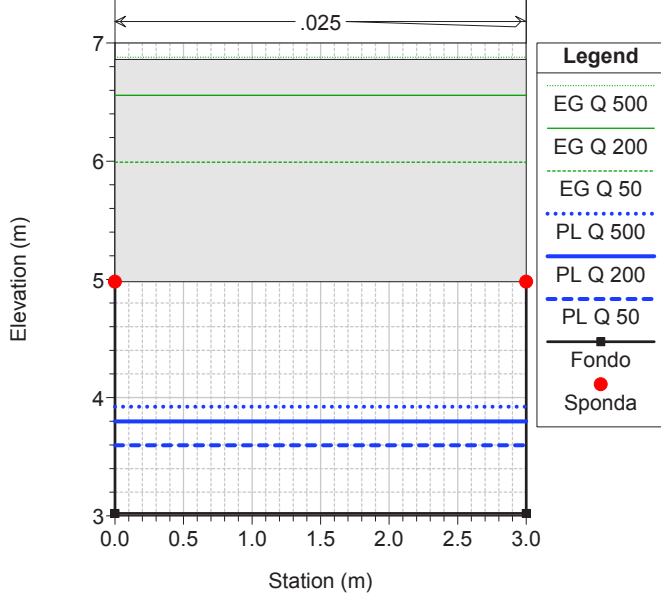
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 35 35 - CAMBIO PENDNEZA FONDO - FINESTRA SU VECCHIA TOMBINATURA



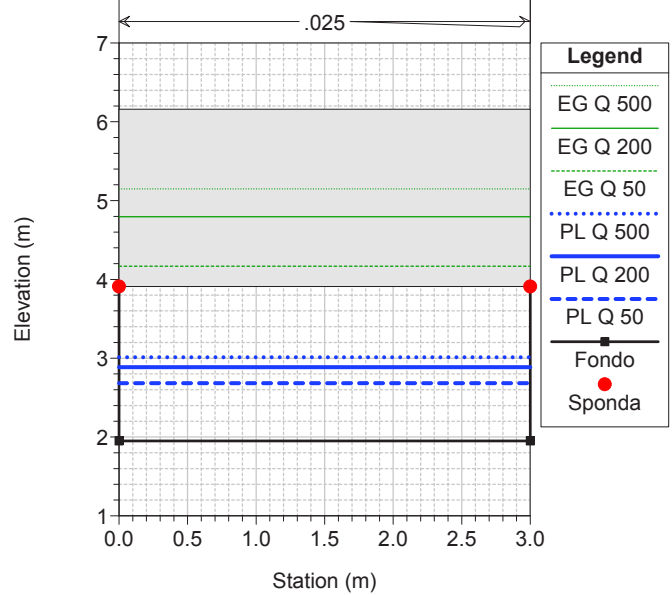
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 30 30 - FINE CAMERONE - TESTA SALTO



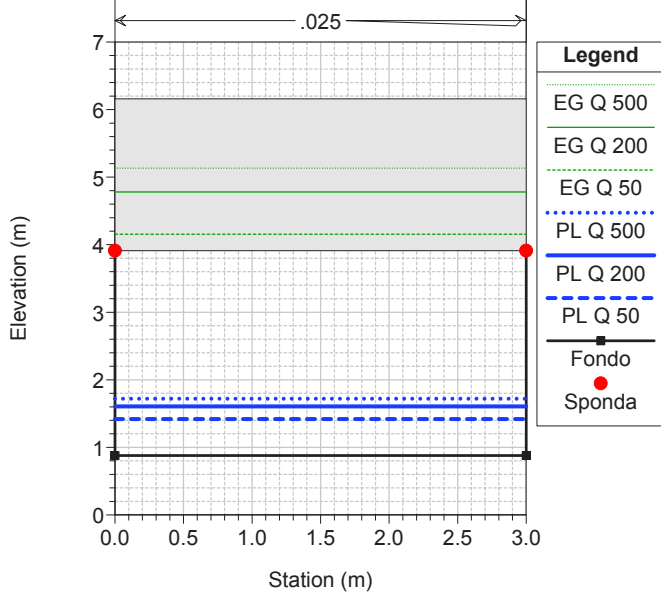
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 28 30 - INIZIO SCATOALRE IN C.A.P. - PIEDE SALTO



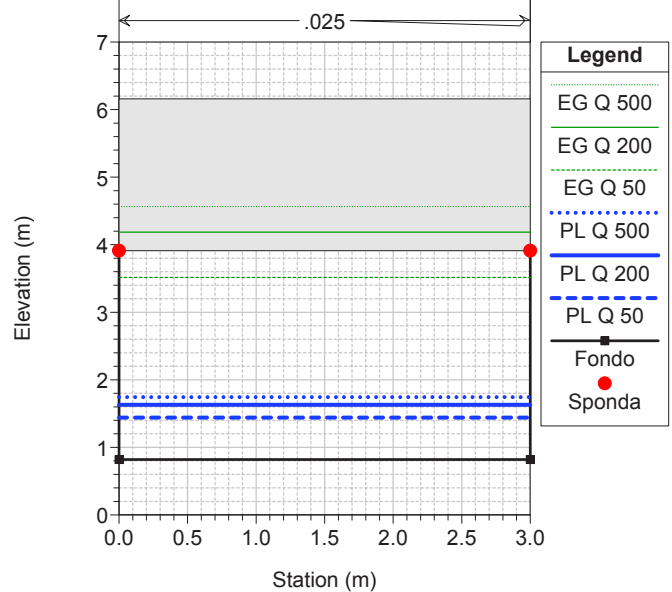
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 25 20 - FINE SCATOALRE IN C.A.P. - TESTA SALTO



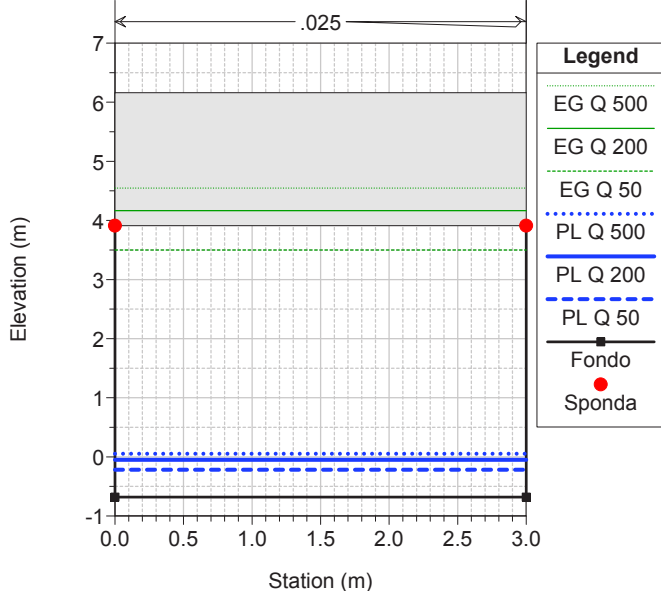
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 20 20 - INIZIO CAMERONE - PIEDE SALTO



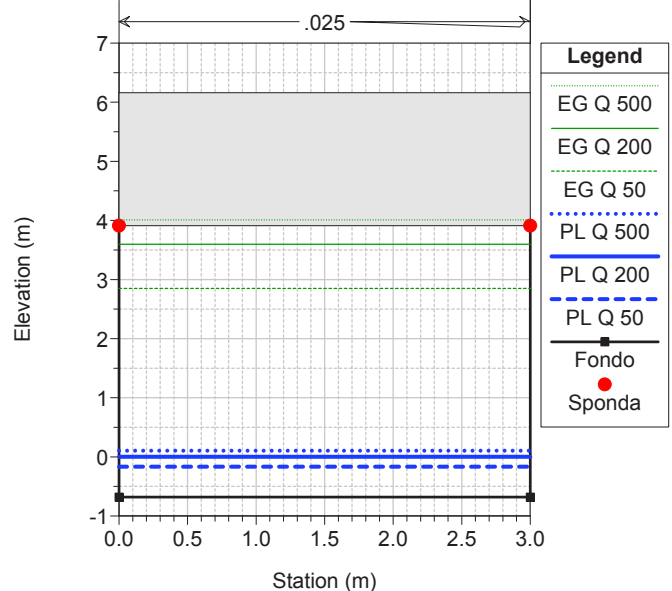
RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 10 10 - FINE CAMERONE - TESTA SALTO



RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 5 10 - PIEDE SALTO



RIO RUBINO Plan: SA+Monte - Ks 1a_consegna
RS = 1 1 - FINE SOLETTA STRADA



HEC-RAS Plan: SA+Monte_Ks_1a_c River: RIO RUBINO Reach: RIO RUBINO

| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | LOB Elev (m) | L. Freeboard (m) | ROB Elev (m) | R. Freeboard (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|------------|-----------|---------|-------------------|------------------|------------------|-----------------|---------------------|-----------------|---------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| RIO RUBINO | 590 | Q 50 | 6.35 | 97.96 | 99.36 | 99.96 | 0.60 | 100.35 | 0.99 | 99.36 | 99.85 | 0.020166 | 3.10 | 2.05 | 2.11 | 1.00 |
| RIO RUBINO | 590 | Q 200 | 9.20 | 97.96 | 99.64 | 99.96 | 0.32 | 100.35 | 0.71 | 99.64 | 100.25 | 0.021228 | 3.47 | 2.65 | 2.20 | 1.01 |
| RIO RUBINO | 590 | Q 500 | 11.04 | 97.96 | 99.81 | 99.96 | 0.15 | 100.35 | 0.54 | 99.81 | 100.48 | 0.021463 | 3.64 | 3.04 | 2.26 | 1.00 |
| RIO RUBINO | 580 | Q 50 | 6.35 | 97.59 | 98.44 | 99.00 | 0.56 | 99.21 | 0.77 | 98.75 | 99.48 | 0.051291 | 4.50 | 1.41 | 1.94 | 1.69 |
| RIO RUBINO | 580 | Q 200 | 9.20 | 97.59 | 98.69 | 99.00 | 0.31 | 99.21 | 0.52 | 99.10 | 99.89 | 0.048880 | 4.87 | 1.89 | 2.03 | 1.61 |
| RIO RUBINO | 580 | Q 500 | 11.04 | 97.59 | 98.83 | 99.00 | 0.17 | 99.21 | 0.38 | 99.46 | 100.13 | 0.047947 | 5.05 | 2.18 | 2.08 | 1.57 |
| RIO RUBINO | 570 | Q 50 | 6.35 | 96.50 | 97.15 | 97.98 | 0.83 | 97.82 | 0.67 | 97.54 | 98.48 | 0.077174 | 5.10 | 1.25 | 2.33 | 2.23 |
| RIO RUBINO | 570 | Q 200 | 9.20 | 96.50 | 97.32 | 97.98 | 0.66 | 97.82 | 0.50 | 97.97 | 98.93 | 0.074644 | 5.63 | 1.63 | 2.40 | 2.18 |
| RIO RUBINO | 570 | Q 500 | 11.04 | 96.50 | 97.42 | 97.98 | 0.56 | 97.82 | 0.40 | 98.07 | 99.19 | 0.073440 | 5.90 | 1.87 | 2.45 | 2.15 |
| RIO RUBINO | 560 | Q 50 | 6.35 | 94.30 | 95.00 | 97.71 | 2.71 | 96.27 | 1.27 | 95.46 | 96.82 | 0.125480 | 5.99 | 1.06 | 2.23 | 2.77 |
| RIO RUBINO | 560 | Q 200 | 9.20 | 94.30 | 95.15 | 97.71 | 2.56 | 96.27 | 1.12 | 95.72 | 97.34 | 0.117844 | 6.56 | 1.40 | 2.30 | 2.68 |
| RIO RUBINO | 560 | Q 500 | 11.04 | 94.30 | 95.24 | 97.71 | 2.47 | 96.27 | 1.03 | 95.87 | 97.63 | 0.114268 | 6.85 | 1.61 | 2.34 | 2.64 |
| RIO RUBINO | 550 | Q 50 | 6.35 | 92.46 | 93.13 | 95.15 | 2.02 | 94.20 | 1.07 | 93.58 | 94.77 | 0.105331 | 5.67 | 1.12 | 2.18 | 2.52 |
| RIO RUBINO | 550 | Q 200 | 9.20 | 92.46 | 93.29 | 95.15 | 1.86 | 94.20 | 0.91 | 93.84 | 95.32 | 0.104756 | 6.32 | 1.46 | 2.25 | 2.51 |
| RIO RUBINO | 550 | Q 500 | 11.04 | 92.46 | 93.38 | 95.15 | 1.77 | 94.20 | 0.82 | 94.00 | 95.63 | 0.104174 | 6.65 | 1.66 | 2.29 | 2.49 |
| RIO RUBINO | 540 | Q 50 | 6.35 | 89.73 | 90.50 | 92.07 | 1.57 | 91.98 | 1.48 | 91.00 | 92.33 | 0.116940 | 5.99 | 1.06 | 1.72 | 2.44 |
| RIO RUBINO | 540 | Q 200 | 9.20 | 89.73 | 90.69 | 92.07 | 1.38 | 91.98 | 1.29 | 91.31 | 92.91 | 0.115860 | 6.60 | 1.39 | 1.76 | 2.37 |
| RIO RUBINO | 540 | Q 500 | 11.04 | 89.73 | 90.81 | 92.07 | 1.26 | 91.98 | 1.17 | 91.49 | 93.23 | 0.114676 | 6.89 | 1.60 | 1.79 | 2.32 |
| RIO RUBINO | 530 | Q 50 | 6.35 | 86.74 | 87.37 | 89.80 | 2.43 | 88.60 | 1.23 | 87.82 | 89.06 | 0.110393 | 5.77 | 1.10 | 2.17 | 2.58 |
| RIO RUBINO | 530 | Q 200 | 9.20 | 86.74 | 87.51 | 89.80 | 2.29 | 88.60 | 1.09 | 88.08 | 89.63 | 0.110393 | 6.45 | 1.43 | 2.21 | 2.56 |
| RIO RUBINO | 530 | Q 500 | 11.04 | 86.74 | 87.60 | 89.80 | 2.20 | 88.60 | 1.00 | 88.24 | 89.95 | 0.110195 | 6.79 | 1.63 | 2.23 | 2.54 |
| RIO RUBINO | 520 | Q 50 | 6.35 | 83.72 | 84.51 | 86.72 | 2.21 | 85.90 | 1.39 | 84.94 | 86.19 | 0.128022 | 5.74 | 1.11 | 2.37 | 2.68 |
| RIO RUBINO | 520 | Q 200 | 9.20 | 83.72 | 84.65 | 86.72 | 2.07 | 85.90 | 1.25 | 85.19 | 86.77 | 0.127162 | 6.45 | 1.43 | 2.37 | 2.66 |
| RIO RUBINO | 520 | Q 500 | 11.04 | 83.72 | 84.73 | 86.72 | 1.99 | 85.90 | 1.17 | 85.34 | 87.10 | 0.127205 | 6.83 | 1.62 | 2.37 | 2.64 |
| RIO RUBINO | 510 | Q 50 | 6.35 | 82.20 | 82.97 | 83.65 | 0.68 | 83.70 | 0.73 | 83.39 | 84.43 | 0.091730 | 5.36 | 1.18 | 1.80 | 2.11 |
| RIO RUBINO | 510 | Q 200 | 9.20 | 82.20 | 83.17 | 83.65 | 0.48 | 83.70 | 0.53 | 83.95 | 84.98 | 0.093073 | 5.97 | 1.54 | 1.80 | 2.06 |
| RIO RUBINO | 510 | Q 500 | 11.04 | 82.20 | 83.29 | 83.65 | 0.36 | 83.70 | 0.41 | 84.03 | 85.30 | 0.094170 | 6.28 | 1.76 | 1.80 | 2.03 |
| RIO RUBINO | 500 | Q 50 | 6.35 | 81.66 | 82.39 | 82.83 | 0.44 | 82.92 | 0.53 | 82.99 | 84.06 | 0.113426 | 5.71 | 1.11 | 1.89 | 2.38 |
| RIO RUBINO | 500 | Q 200 | 9.20 | 81.66 | 82.58 | 82.83 | 0.25 | 82.92 | 0.34 | 83.29 | 84.61 | 0.110959 | 6.31 | 1.46 | 1.89 | 2.29 |
| RIO RUBINO | 500 | Q 500 | 11.04 | 81.66 | 82.69 | 82.83 | 0.14 | 82.92 | 0.23 | 83.39 | 84.92 | 0.110197 | 6.62 | 1.67 | 1.89 | 2.25 |
| RIO RUBINO | 490 | Q 50 | 6.35 | 80.98 | 81.61 | 81.87 | 0.26 | 81.81 | 0.20 | 82.14 | 83.27 | 0.113584 | 5.71 | 1.11 | 2.16 | 2.54 |
| RIO RUBINO | 490 | Q 200 | 9.20 | 80.98 | 81.76 | 81.87 | 0.11 | 81.81 | 0.05 | 82.26 | 83.83 | 0.112325 | 6.37 | 1.44 | 2.16 | 2.49 |
| RIO RUBINO | 490 | Q 500 | 11.04 | 80.98 | 81.85 | 81.87 | 0.02 | 81.81 | -0.04 | 82.32 | 84.14 | 0.111162 | 6.72 | 1.67 | 3.34 | 2.46 |
| RIO RUBINO | 480 | Q 50 | 6.35 | 78.90 | 79.59 | 81.56 | 1.97 | 80.37 | 0.78 | 80.06 | 81.37 | 0.120108 | 5.91 | 1.08 | 1.94 | 2.53 |
| RIO RUBINO | 480 | Q 200 | 9.20 | 78.90 | 79.76 | 81.56 | 1.80 | 80.37 | 0.61 | 80.36 | 81.95 | 0.119153 | 6.56 | 1.40 | 1.94 | 2.46 |
| RIO RUBINO | 480 | Q 500 | 11.04 | 78.90 | 79.86 | 81.56 | 1.70 | 80.37 | 0.51 | 80.56 | 82.28 | 0.118824 | 6.89 | 1.60 | 1.94 | 2.42 |
| RIO RUBINO | 470 | Q 50 | 6.35 | 75.25 | 75.68 | 77.71 | 2.03 | 76.73 | 1.05 | 76.18 | 78.06 | 0.198052 | 6.84 | 0.93 | 2.38 | 3.50 |

HEC-RAS Plan: SA+Monte_Ks_1a_c River: RIO RUBINO Reach: RIO RUBINO (Continued)

| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | LOB Elev (m) | L. Freeboard (m) | ROB Elev (m) | R. Freeboard (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|------------|-----------|---------|-------------------|------------------|------------------|-----------------|---------------------|-----------------|---------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| RIO RUBINO | 470 | Q 200 | 9.20 | 75.25 | 75.79 | 77.71 | 1.92 | 76.73 | 0.94 | 76.43 | 78.77 | 0.192158 | 7.65 | 1.20 | 2.38 | 3.43 |
| RIO RUBINO | 470 | Q 500 | 11.04 | 75.25 | 75.86 | 77.71 | 1.85 | 76.73 | 0.87 | 76.58 | 79.16 | 0.188535 | 8.05 | 1.37 | 2.38 | 3.38 |
| RIO RUBINO | 460 | Q 50 | 6.35 | 72.64 | 73.25 | 74.74 | 1.49 | 74.71 | 1.46 | 73.74 | 75.38 | 0.162720 | 6.47 | 0.98 | 2.37 | 3.21 |
| RIO RUBINO | 460 | Q 200 | 9.20 | 72.64 | 73.37 | 74.74 | 1.37 | 74.71 | 1.34 | 73.99 | 76.09 | 0.164258 | 7.31 | 1.26 | 2.37 | 3.20 |
| RIO RUBINO | 460 | Q 500 | 11.04 | 72.64 | 73.44 | 74.74 | 1.30 | 74.71 | 1.27 | 74.14 | 76.50 | 0.164942 | 7.75 | 1.42 | 2.37 | 3.19 |
| RIO RUBINO | 450 | Q 50 | 6.35 | 71.60 | 72.15 | 73.38 | 1.23 | 73.03 | 0.88 | 72.55 | 73.61 | 0.093016 | 5.36 | 1.18 | 2.23 | 2.35 |
| RIO RUBINO | 450 | Q 200 | 9.20 | 71.60 | 72.28 | 73.38 | 1.10 | 73.03 | 0.75 | 72.81 | 74.22 | 0.100420 | 6.16 | 1.49 | 2.23 | 2.40 |
| RIO RUBINO | 450 | Q 500 | 11.04 | 71.60 | 72.37 | 73.38 | 1.01 | 73.03 | 0.66 | 72.97 | 74.57 | 0.103705 | 6.57 | 1.68 | 2.23 | 2.42 |
| RIO RUBINO | 446 | Q 50 | 6.35 | 71.22 | 72.26 | 72.75 | 0.49 | 72.61 | 0.35 | 72.44 | 72.90 | 0.041093 | 3.53 | 1.80 | 3.07 | 1.47 |
| RIO RUBINO | 446 | Q 200 | 9.20 | 71.22 | 72.34 | 72.75 | 0.41 | 72.61 | 0.27 | 72.66 | 73.38 | 0.059370 | 4.52 | 2.04 | 3.09 | 1.78 |
| RIO RUBINO | 446 | Q 500 | 11.04 | 71.22 | 72.40 | 72.75 | 0.35 | 72.61 | 0.21 | 72.80 | 73.68 | 0.067586 | 5.01 | 2.20 | 3.09 | 1.90 |
| RIO RUBINO | 445 | Q 50 | 6.35 | 70.77 | 72.01 | 72.75 | 0.74 | 72.61 | 0.60 | 72.27 | 72.87 | 0.065323 | 4.12 | 1.54 | 3.03 | 1.84 |
| RIO RUBINO | 445 | Q 200 | 9.20 | 70.77 | 72.12 | 72.75 | 0.63 | 72.61 | 0.49 | 72.48 | 73.36 | 0.077283 | 4.95 | 1.86 | 3.05 | 2.02 |
| RIO RUBINO | 445 | Q 500 | 11.04 | 70.77 | 72.18 | 72.75 | 0.57 | 72.61 | 0.43 | 72.61 | 73.66 | 0.082853 | 5.39 | 2.05 | 3.06 | 2.10 |
| RIO RUBINO | 441 | Q 50 | 6.35 | 70.57 | 71.23 | 72.64 | 1.41 | 72.64 | 1.41 | 71.60 | 72.66 | 0.106267 | 5.30 | 1.20 | 2.92 | 2.64 |
| RIO RUBINO | 441 | Q 200 | 9.20 | 70.57 | 71.35 | 72.64 | 1.29 | 72.64 | 1.29 | 71.82 | 73.14 | 0.101606 | 5.93 | 1.55 | 2.92 | 2.60 |
| RIO RUBINO | 441 | Q 500 | 11.04 | 70.57 | 71.42 | 72.64 | 1.22 | 72.64 | 1.22 | 71.94 | 73.43 | 0.100961 | 6.29 | 1.75 | 2.92 | 2.59 |
| RIO RUBINO | 440 | Q 50 | 8.28 | 69.86 | 70.28 | 72.64 | 2.36 | 72.64 | 2.36 | 70.79 | 72.65 | 0.148230 | 6.82 | 1.21 | 2.92 | 3.38 |
| RIO RUBINO | 440 | Q 200 | 12.00 | 69.86 | 70.42 | 72.64 | 2.22 | 72.64 | 2.22 | 71.05 | 73.13 | 0.124606 | 7.29 | 1.65 | 2.92 | 3.10 |
| RIO RUBINO | 440 | Q 500 | 14.40 | 69.86 | 70.51 | 72.64 | 2.13 | 72.64 | 2.13 | 71.21 | 73.42 | 0.116779 | 7.56 | 1.91 | 2.92 | 2.99 |
| RIO RUBINO | 433 | Q 50 | 8.28 | 69.86 | 70.36 | 72.04 | 1.68 | 72.04 | 1.68 | 70.79 | 72.01 | 0.086306 | 5.70 | 1.45 | 2.92 | 2.58 |
| RIO RUBINO | 433 | Q 200 | 12.00 | 69.86 | 70.51 | 72.04 | 1.53 | 72.04 | 1.53 | 71.05 | 72.56 | 0.083017 | 6.35 | 1.89 | 2.92 | 2.52 |
| RIO RUBINO | 433 | Q 500 | 14.40 | 69.86 | 70.60 | 72.04 | 1.44 | 72.04 | 1.44 | 71.21 | 72.88 | 0.082004 | 6.69 | 2.15 | 2.92 | 2.49 |
| RIO RUBINO | 432 | Q 50 | 8.28 | 70.00 | 70.53 | 72.04 | 1.51 | 72.04 | 1.51 | 70.93 | 72.01 | 0.073129 | 5.39 | 1.53 | 2.92 | 2.37 |
| RIO RUBINO | 432 | Q 200 | 12.00 | 70.00 | 70.68 | 72.04 | 1.36 | 72.04 | 1.36 | 71.19 | 72.55 | 0.072888 | 6.07 | 1.98 | 2.92 | 2.35 |
| RIO RUBINO | 432 | Q 500 | 14.40 | 70.00 | 70.77 | 72.04 | 1.27 | 72.04 | 1.27 | 71.35 | 72.87 | 0.073048 | 6.43 | 2.24 | 2.92 | 2.34 |
| RIO RUBINO | 431 | Q 50 | 8.28 | 70.00 | 70.53 | 72.04 | 1.51 | 72.04 | 1.51 | 70.93 | 71.98 | 0.070831 | 5.34 | 1.55 | 2.92 | 2.34 |
| RIO RUBINO | 431 | Q 200 | 12.00 | 70.00 | 70.68 | 72.04 | 1.36 | 72.04 | 1.36 | 71.19 | 72.53 | 0.071277 | 6.02 | 1.99 | 2.92 | 2.33 |
| RIO RUBINO | 431 | Q 500 | 14.40 | 70.00 | 70.77 | 72.04 | 1.27 | 72.04 | 1.27 | 71.35 | 72.85 | 0.071607 | 6.38 | 2.26 | 2.92 | 2.32 |
| RIO RUBINO | 430 | Q 50 | 8.28 | 67.08 | 67.38 | 72.04 | 4.66 | 72.04 | 4.66 | 68.01 | 71.95 | 0.406648 | 9.47 | 0.87 | 2.92 | 5.53 |
| RIO RUBINO | 430 | Q 200 | 12.00 | 67.08 | 67.49 | 72.04 | 4.55 | 72.04 | 4.55 | 68.28 | 72.50 | 0.313628 | 9.91 | 1.21 | 2.92 | 4.91 |
| RIO RUBINO | 430 | Q 500 | 14.40 | 67.08 | 67.57 | 72.04 | 4.47 | 72.04 | 4.47 | 68.43 | 72.82 | 0.280044 | 10.15 | 1.42 | 2.92 | 4.65 |
| RIO RUBINO | 425 | Q 50 | 8.28 | 67.00 | 67.39 | 71.70 | 4.31 | 71.70 | 4.31 | 68.03 | 70.99 | 0.210370 | 8.41 | 0.99 | 2.92 | 4.27 |
| RIO RUBINO | 425 | Q 200 | 12.00 | 67.00 | 67.53 | 71.70 | 4.17 | 71.70 | 4.17 | 68.33 | 71.74 | 0.177021 | 9.09 | 1.32 | 2.92 | 3.99 |
| RIO RUBINO | 425 | Q 500 | 14.40 | 67.00 | 67.61 | 71.70 | 4.09 | 71.70 | 4.09 | 68.50 | 72.13 | 0.162050 | 9.42 | 1.53 | 2.92 | 3.85 |
| RIO RUBINO | 420 | Q 50 | 8.28 | 67.00 | 67.68 | 68.35 | 0.67 | 68.35 | 0.67 | 68.34 | 70.98 | 0.163569 | 8.06 | 1.03 | 2.13 | 3.70 |
| RIO RUBINO | 420 | Q 200 | 12.00 | 67.00 | 67.83 | 68.35 | 0.52 | 68.35 | 0.52 | 68.62 | 71.73 | 0.154181 | 8.75 | 1.37 | 2.28 | 3.60 |

HEC-RAS Plan: SA+Monte_Ks_1a_c River: RIO RUBINO Reach: RIO RUBINO (Continued)

| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | LOB Elev (m) | L. Freeboard (m) | ROB Elev (m) | R. Freeboard (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|------------|-----------|---------|-------------------|------------------|------------------|-----------------|---------------------|-----------------|---------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| RIO RUBINO | 420 | Q 500 | 14.40 | 67.00 | 67.92 | 68.35 | 0.43 | 68.35 | 0.43 | 68.78 | 72.12 | 0.149536 | 9.08 | 1.59 | 2.37 | 3.54 |
| RIO RUBINO | 415 | Q 50 | 8.28 | 66.08 | 66.90 | 67.43 | 0.53 | 67.43 | 0.53 | 67.42 | 68.83 | 0.077274 | 6.15 | 1.35 | 2.27 | 2.55 |
| RIO RUBINO | 415 | Q 200 | 12.00 | 66.08 | 67.06 | 67.43 | 0.37 | 67.43 | 0.37 | 67.70 | 69.54 | 0.082973 | 6.97 | 1.72 | 2.41 | 2.63 |
| RIO RUBINO | 415 | Q 500 | 14.40 | 66.08 | 67.16 | 67.43 | 0.27 | 67.43 | 0.27 | 67.86 | 69.93 | 0.084982 | 7.39 | 1.95 | 2.43 | 2.63 |
| RIO RUBINO | 410 | Q 50 | 8.28 | 63.64 | 63.91 | 69.11 | 5.20 | 69.11 | 5.20 | 64.53 | 68.80 | 0.480466 | 9.79 | 0.85 | 3.13 | 6.01 |
| RIO RUBINO | 410 | Q 200 | 12.00 | 63.64 | 64.01 | 69.11 | 5.10 | 69.11 | 5.10 | 64.78 | 69.51 | 0.382415 | 10.39 | 1.16 | 3.13 | 5.46 |
| RIO RUBINO | 410 | Q 500 | 14.40 | 63.64 | 64.07 | 69.11 | 5.04 | 69.11 | 5.04 | 64.93 | 69.90 | 0.344915 | 10.70 | 1.35 | 3.13 | 5.21 |
| RIO RUBINO | 405 | Q 50 | 8.28 | 63.50 | 65.58 | 68.50 | 2.92 | 68.50 | 2.92 | 64.39 | 65.66 | 0.001335 | 1.27 | 6.50 | 3.13 | 0.28 |
| RIO RUBINO | 405 | Q 200 | 12.00 | 63.50 | 63.91 | 68.50 | 4.59 | 68.50 | 4.59 | 64.65 | 68.30 | 0.270651 | 9.28 | 1.29 | 3.13 | 4.61 |
| RIO RUBINO | 405 | Q 500 | 14.40 | 63.50 | 63.97 | 68.50 | 4.53 | 68.50 | 4.53 | 64.79 | 68.78 | 0.257562 | 9.72 | 1.48 | 3.13 | 4.51 |
| RIO RUBINO | 400 | Q 50 | 8.28 | 63.80 | 65.14 | 65.15 | 0.01 | 65.15 | 0.01 | 65.14 | 65.66 | 0.013025 | 3.19 | 2.60 | 2.50 | 1.00 |
| RIO RUBINO | 400 | Q 200 | 12.00 | 63.80 | 64.65 | 65.15 | 0.50 | 65.15 | 0.50 | 65.42 | 68.28 | 0.139459 | 8.43 | 1.42 | 2.30 | 3.42 |
| RIO RUBINO | 400 | Q 500 | 14.40 | 63.80 | 64.74 | 65.15 | 0.41 | 65.15 | 0.41 | 65.58 | 68.76 | 0.140858 | 8.88 | 1.62 | 2.38 | 3.44 |
| RIO RUBINO | 395 | Q 50 | 8.28 | 63.14 | 64.18 | 64.49 | 0.31 | 64.49 | 0.31 | 64.48 | 65.19 | 0.031855 | 4.45 | 1.86 | 2.42 | 1.62 |
| RIO RUBINO | 395 | Q 200 | 12.00 | 63.14 | 64.16 | 64.49 | 0.33 | 64.49 | 0.33 | 64.76 | 66.40 | 0.072254 | 6.63 | 1.81 | 2.41 | 2.44 |
| RIO RUBINO | 395 | Q 500 | 14.40 | 63.14 | 64.25 | 64.49 | 0.24 | 64.49 | 0.24 | 64.92 | 66.82 | 0.076379 | 7.10 | 2.03 | 2.44 | 2.48 |
| RIO RUBINO | 390 | Q 50 | 8.28 | 62.22 | 64.49 | 66.35 | 1.86 | 66.35 | 1.86 | 63.12 | 64.56 | 0.001120 | 1.19 | 6.98 | 3.07 | 0.25 |
| RIO RUBINO | 390 | Q 200 | 12.00 | 62.22 | 64.90 | 66.35 | 1.45 | 66.35 | 1.45 | 63.38 | 65.01 | 0.001555 | 1.46 | 8.23 | 3.07 | 0.28 |
| RIO RUBINO | 390 | Q 500 | 14.40 | 62.22 | 65.14 | 66.35 | 1.21 | 66.35 | 1.21 | 63.53 | 65.27 | 0.001806 | 1.60 | 8.97 | 3.07 | 0.30 |
| RIO RUBINO | 385 | Q 50 | 8.28 | 62.48 | 64.47 | 65.74 | 1.27 | 65.74 | 1.27 | 63.39 | 64.56 | 0.001582 | 1.36 | 6.10 | 3.07 | 0.31 |
| RIO RUBINO | 385 | Q 200 | 12.00 | 62.48 | 64.86 | 65.74 | 0.87 | 65.74 | 0.87 | 63.64 | 65.00 | 0.002082 | 1.64 | 7.32 | 3.07 | 0.34 |
| RIO RUBINO | 385 | Q 500 | 14.40 | 62.48 | 65.10 | 65.74 | 0.64 | 65.74 | 0.64 | 63.79 | 65.27 | 0.002360 | 1.79 | 8.06 | 3.07 | 0.35 |
| RIO RUBINO | 380 | Q 50 | 8.28 | 62.70 | 64.04 | 64.05 | 0.01 | 64.05 | 0.01 | 64.04 | 64.56 | 0.013082 | 3.19 | 2.59 | 2.50 | 1.00 |
| RIO RUBINO | 380 | Q 200 | 12.00 | 62.70 | 64.32 | 64.05 | -0.27 | 64.05 | -0.27 | 64.32 | 65.00 | 0.014785 | 3.65 | 3.29 | 2.43 | 0.91 |
| RIO RUBINO | 380 | Q 500 | 14.40 | 62.70 | 64.48 | 64.05 | -0.43 | 64.05 | -0.43 | 64.48 | 65.26 | 0.016125 | 3.91 | 3.68 | 2.36 | 0.94 |
| RIO RUBINO | 375 | Q 50 | 8.28 | 62.06 | 63.04 | 63.41 | 0.37 | 63.41 | 0.37 | 63.40 | 64.23 | 0.040207 | 4.84 | 1.71 | 2.40 | 1.83 |
| RIO RUBINO | 375 | Q 200 | 12.00 | 62.06 | 63.27 | 63.41 | 0.14 | 63.41 | 0.14 | 63.68 | 64.68 | 0.038393 | 5.25 | 2.29 | 2.46 | 1.74 |
| RIO RUBINO | 375 | Q 500 | 14.40 | 62.06 | 63.41 | 63.41 | 0.00 | 63.41 | 0.00 | 63.84 | 64.94 | 0.038084 | 5.48 | 2.63 | 2.50 | 1.70 |
| RIO RUBINO | 370 | Q 50 | 8.28 | 60.70 | 61.49 | 64.82 | 3.33 | 64.82 | 3.33 | 62.21 | 64.21 | 0.131393 | 7.31 | 1.13 | 1.61 | 2.78 |
| RIO RUBINO | 370 | Q 200 | 12.00 | 60.70 | 61.76 | 64.82 | 3.06 | 64.82 | 3.06 | 62.46 | 64.66 | 0.115242 | 7.54 | 1.59 | 1.80 | 2.56 |
| RIO RUBINO | 370 | Q 500 | 14.40 | 60.70 | 61.89 | 64.82 | 2.93 | 64.82 | 2.93 | 62.60 | 64.92 | 0.128084 | 7.71 | 1.87 | 2.47 | 2.83 |
| RIO RUBINO | 360 | Q 50 | 8.28 | 60.50 | 61.15 | 64.78 | 3.63 | 64.78 | 3.63 | 61.83 | 63.99 | 0.140900 | 7.46 | 1.11 | 1.87 | 3.09 |
| RIO RUBINO | 360 | Q 200 | 12.00 | 60.50 | 61.38 | 64.78 | 3.40 | 64.78 | 3.40 | 62.16 | 64.47 | 0.120813 | 7.79 | 1.54 | 1.98 | 2.82 |
| RIO RUBINO | 360 | Q 500 | 14.40 | 60.50 | 61.51 | 64.78 | 3.27 | 64.78 | 3.27 | 62.35 | 64.73 | 0.112848 | 7.95 | 1.81 | 2.05 | 2.70 |
| RIO RUBINO | 355 | Q 50 | 8.28 | 60.26 | 60.62 | 64.71 | 4.09 | 64.71 | 4.09 | 61.17 | 63.58 | 0.212041 | 7.62 | 1.09 | 3.06 | 4.08 |
| RIO RUBINO | 355 | Q 200 | 12.00 | 60.26 | 60.74 | 64.71 | 3.97 | 64.71 | 3.97 | 61.42 | 64.12 | 0.175877 | 8.14 | 1.47 | 3.08 | 3.76 |
| RIO RUBINO | 355 | Q 500 | 14.40 | 60.26 | 60.82 | 64.71 | 3.89 | 64.71 | 3.89 | 61.57 | 64.41 | 0.160765 | 8.39 | 1.72 | 3.10 | 3.60 |

HEC-RAS Plan: SA+Monte_Ks_1a_c River: RIO RUBINO Reach: RIO RUBINO (Continued)

| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | LOB Elev (m) | L. Freeboard (m) | ROB Elev (m) | R. Freeboard (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|------------|-----------|---------|-------------------|------------------|------------------|-----------------|---------------------|-----------------|---------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| RIO RUBINO | 350 | Q 50 | 8.28 | 59.93 | 60.27 | 64.71 | 4.44 | 64.71 | 4.44 | 60.84 | 63.57 | 0.251099 | 8.05 | 1.03 | 3.05 | 4.43 |
| RIO RUBINO | 350 | Q 200 | 12.00 | 59.93 | 60.39 | 64.71 | 4.32 | 64.71 | 4.32 | 61.09 | 64.11 | 0.203844 | 8.55 | 1.40 | 3.07 | 4.04 |
| RIO RUBINO | 350 | Q 500 | 14.40 | 59.93 | 60.47 | 64.71 | 4.24 | 64.71 | 4.24 | 61.24 | 64.41 | 0.184664 | 8.79 | 1.64 | 3.08 | 3.85 |
| RIO RUBINO | 345 | Q 50 | 8.28 | 59.80 | 60.40 | 64.65 | 4.25 | 64.65 | 4.25 | 61.05 | 63.15 | 0.143990 | 7.35 | 1.13 | 1.92 | 3.07 |
| RIO RUBINO | 345 | Q 200 | 12.00 | 59.80 | 60.60 | 64.65 | 4.05 | 64.65 | 4.05 | 61.39 | 63.75 | 0.130245 | 7.86 | 1.53 | 1.95 | 2.84 |
| RIO RUBINO | 345 | Q 500 | 14.40 | 59.80 | 60.73 | 64.65 | 3.92 | 64.65 | 3.92 | 61.60 | 64.06 | 0.123615 | 8.09 | 1.78 | 1.97 | 2.71 |
| RIO RUBINO | 340 | Q 50 | 8.28 | 59.58 | 60.15 | 65.70 | 5.55 | 65.70 | 5.55 | 60.82 | 63.14 | 0.162287 | 7.67 | 1.08 | 1.96 | 3.30 |
| RIO RUBINO | 340 | Q 200 | 12.00 | 59.58 | 60.34 | 65.70 | 5.36 | 65.70 | 5.36 | 61.15 | 63.75 | 0.144342 | 8.17 | 1.47 | 1.99 | 3.04 |
| RIO RUBINO | 340 | Q 500 | 14.40 | 59.58 | 60.47 | 65.70 | 5.23 | 65.70 | 5.23 | 61.36 | 64.06 | 0.136086 | 8.40 | 1.71 | 2.02 | 2.91 |
| RIO RUBINO | 330 | Q 50 | 8.28 | 59.58 | 60.05 | 63.32 | 3.27 | 63.32 | 3.27 | 60.65 | 62.93 | 0.170090 | 7.52 | 1.10 | 2.41 | 3.55 |
| RIO RUBINO | 330 | Q 200 | 12.00 | 59.58 | 60.20 | 63.32 | 3.12 | 63.32 | 3.12 | 60.95 | 63.56 | 0.151131 | 8.12 | 1.48 | 2.44 | 3.33 |
| RIO RUBINO | 330 | Q 500 | 14.40 | 59.58 | 60.30 | 63.32 | 3.02 | 63.32 | 3.02 | 61.12 | 63.88 | 0.142006 | 8.39 | 1.72 | 2.46 | 3.21 |
| RIO RUBINO | 329 | Q 50 | 8.28 | 59.68 | 60.43 | 61.03 | 0.60 | 61.03 | 0.60 | 61.02 | 62.91 | 0.109775 | 6.98 | 1.19 | 2.20 | 3.04 |
| RIO RUBINO | 329 | Q 200 | 12.00 | 59.68 | 60.60 | 61.03 | 0.43 | 61.03 | 0.43 | 61.30 | 63.54 | 0.105070 | 7.60 | 1.58 | 2.36 | 2.97 |
| RIO RUBINO | 329 | Q 500 | 14.40 | 59.68 | 60.70 | 61.03 | 0.33 | 61.03 | 0.33 | 61.46 | 63.87 | 0.101425 | 7.88 | 1.83 | 2.42 | 2.89 |
| RIO RUBINO | 325 | Q 50 | 8.28 | 59.68 | 60.44 | 61.03 | 0.59 | 61.03 | 0.59 | 61.02 | 62.84 | 0.104473 | 6.86 | 1.21 | 2.21 | 2.96 |
| RIO RUBINO | 325 | Q 200 | 12.00 | 59.68 | 60.61 | 61.03 | 0.42 | 61.03 | 0.42 | 61.30 | 63.47 | 0.101111 | 7.49 | 1.60 | 2.37 | 2.91 |
| RIO RUBINO | 325 | Q 500 | 14.40 | 59.68 | 60.71 | 61.03 | 0.32 | 61.03 | 0.32 | 61.46 | 63.80 | 0.097924 | 7.78 | 1.85 | 2.42 | 2.84 |
| RIO RUBINO | 320 | Q 50 | 8.28 | 59.68 | 60.03 | 62.49 | 2.46 | 62.49 | 2.46 | 60.57 | 62.83 | 0.203245 | 7.41 | 1.12 | 3.16 | 3.98 |
| RIO RUBINO | 320 | Q 200 | 12.00 | 59.68 | 60.15 | 62.49 | 2.34 | 62.49 | 2.34 | 60.82 | 63.46 | 0.177881 | 8.06 | 1.49 | 3.16 | 3.75 |
| RIO RUBINO | 320 | Q 500 | 14.40 | 59.68 | 60.22 | 62.49 | 2.27 | 62.49 | 2.27 | 60.97 | 63.79 | 0.165249 | 8.37 | 1.72 | 3.16 | 3.62 |
| RIO RUBINO | 316 | Q 50 | 8.28 | 59.67 | 60.08 | 62.01 | 1.93 | 62.01 | 1.93 | 60.56 | 62.19 | 0.132230 | 6.44 | 1.29 | 3.16 | 3.22 |
| RIO RUBINO | 316 | Q 200 | 12.00 | 59.67 | 60.19 | 62.01 | 1.82 | 62.01 | 1.82 | 60.81 | 62.87 | 0.129155 | 7.25 | 1.65 | 3.16 | 3.20 |
| RIO RUBINO | 316 | Q 500 | 14.40 | 59.67 | 62.04 | 62.01 | -0.03 | 62.01 | -0.03 | 60.95 | 62.24 | 0.004558 | 1.95 | 7.39 | | 0.40 |
| RIO RUBINO | 315 | Q 50 | 11.87 | 59.67 | 60.31 | 63.07 | 2.76 | 63.07 | 2.76 | 60.82 | 62.18 | 0.075478 | 6.07 | 1.96 | 3.07 | 2.43 |
| RIO RUBINO | 315 | Q 200 | 17.20 | 59.67 | 60.49 | 63.07 | 2.58 | 63.07 | 2.58 | 61.14 | 62.86 | 0.075867 | 6.82 | 2.52 | 3.07 | 2.40 |
| RIO RUBINO | 315 | Q 500 | 20.64 | 59.67 | 61.64 | 63.07 | 1.43 | 63.07 | 1.43 | | 62.23 | 0.010048 | 3.41 | 6.04 | 3.07 | 0.78 |
| RIO RUBINO | 311 | Q 50 | 11.87 | 59.66 | 60.36 | 62.80 | 2.44 | 62.80 | 2.44 | 60.83 | 61.98 | 0.060072 | 5.64 | 2.11 | 3.00 | 2.15 |
| RIO RUBINO | 311 | Q 200 | 17.20 | 59.66 | 60.55 | 62.80 | 2.25 | 62.80 | 2.25 | 61.15 | 62.65 | 0.063284 | 6.42 | 2.68 | 3.00 | 2.17 |
| RIO RUBINO | 311 | Q 500 | 20.64 | 59.66 | 61.35 | 62.80 | 1.45 | 62.80 | 1.45 | 61.34 | 62.19 | 0.015919 | 4.07 | 5.07 | 3.00 | 1.00 |
| RIO RUBINO | 310 | Q 50 | 11.87 | 59.66 | 60.36 | 61.64 | 1.28 | 61.64 | 1.28 | 60.83 | 61.98 | 0.053029 | 5.63 | 2.11 | 3.00 | 2.15 |
| RIO RUBINO | 310 | Q 200 | 17.20 | 59.66 | 60.55 | 61.64 | 1.09 | 61.64 | 1.09 | 61.16 | 62.65 | 0.055872 | 6.42 | 2.68 | 3.00 | 2.17 |
| RIO RUBINO | 310 | Q 500 | 20.64 | 59.66 | 61.35 | 61.64 | 0.29 | 61.64 | 0.29 | 61.35 | 62.19 | 0.014068 | 4.07 | 5.07 | 3.00 | 1.00 |
| RIO RUBINO | 300 | Q 50 | 11.87 | 55.95 | 56.53 | 57.91 | 1.38 | 57.91 | 1.38 | 57.12 | 58.91 | 0.093808 | 6.84 | 1.73 | 3.00 | 2.87 |
| RIO RUBINO | 300 | Q 200 | 17.20 | 55.95 | 56.70 | 57.91 | 1.21 | 57.91 | 1.21 | 57.45 | 59.66 | 0.091136 | 7.62 | 2.26 | 3.00 | 2.80 |
| RIO RUBINO | 300 | Q 500 | 20.64 | 55.95 | 56.84 | 57.91 | 1.07 | 57.91 | 1.07 | 57.64 | 59.91 | 0.082232 | 7.77 | 2.66 | 3.00 | 2.63 |

HEC-RAS Plan: SA+Monte_Ks_1a_c River: RIO RUBINO Reach: RIO RUBINO (Continued)

| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | LOB Elev (m) | L. Freeboard (m) | ROB Elev (m) | R. Freeboard (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|------------|-----------|---------|-------------------|------------------|------------------|-----------------|---------------------|-----------------|---------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| RIO RUBINO | 290 | Q 50 | 11.87 | 54.18 | 54.73 | 56.14 | 1.41 | 56.14 | 1.41 | 55.35 | 57.37 | 0.109079 | 7.20 | 1.65 | 3.00 | 3.10 |
| RIO RUBINO | 290 | Q 200 | 17.20 | 54.18 | 54.90 | 56.14 | 1.24 | 56.14 | 1.24 | 55.68 | 58.16 | 0.105159 | 8.00 | 2.15 | 3.00 | 3.02 |
| RIO RUBINO | 290 | Q 500 | 20.64 | 54.18 | 55.01 | 56.14 | 1.13 | 56.14 | 1.13 | 55.87 | 58.52 | 0.099258 | 8.30 | 2.49 | 3.00 | 2.91 |
| RIO RUBINO | 280 | Q 50 | 11.87 | 52.57 | 53.20 | 54.53 | 1.33 | 54.53 | 1.33 | 53.74 | 55.23 | 0.073861 | 6.31 | 1.88 | 3.00 | 2.54 |
| RIO RUBINO | 280 | Q 200 | 17.20 | 52.57 | 53.37 | 54.53 | 1.16 | 54.53 | 1.16 | 54.07 | 55.99 | 0.076608 | 7.17 | 2.40 | 3.00 | 2.56 |
| RIO RUBINO | 280 | Q 500 | 20.64 | 52.57 | 53.48 | 54.53 | 1.05 | 54.53 | 1.05 | 54.26 | 56.40 | 0.076576 | 7.57 | 2.73 | 3.00 | 2.54 |
| RIO RUBINO | 270 | Q 50 | 11.87 | 48.53 | 49.08 | 50.49 | 1.41 | 50.49 | 1.41 | 49.70 | 51.74 | 0.110750 | 7.24 | 1.64 | 3.00 | 3.12 |
| RIO RUBINO | 270 | Q 200 | 17.20 | 48.53 | 49.24 | 50.49 | 1.25 | 50.49 | 1.25 | 50.02 | 52.57 | 0.108138 | 8.08 | 2.13 | 3.00 | 3.06 |
| RIO RUBINO | 270 | Q 500 | 20.64 | 48.53 | 49.34 | 50.49 | 1.15 | 50.49 | 1.15 | 50.22 | 53.03 | 0.106833 | 8.51 | 2.43 | 3.00 | 3.02 |
| RIO RUBINO | 260 | Q 50 | 11.87 | 45.00 | 45.49 | 46.96 | 1.47 | 46.96 | 1.47 | 46.17 | 48.79 | 0.151955 | 8.04 | 1.48 | 3.00 | 3.66 |
| RIO RUBINO | 260 | Q 200 | 17.20 | 45.00 | 45.64 | 46.96 | 1.32 | 46.96 | 1.32 | 46.50 | 49.73 | 0.145961 | 8.96 | 1.92 | 3.00 | 3.57 |
| RIO RUBINO | 260 | Q 500 | 20.64 | 45.00 | 45.73 | 46.96 | 1.23 | 46.96 | 1.23 | 46.69 | 50.25 | 0.142884 | 9.41 | 2.19 | 3.00 | 3.52 |
| RIO RUBINO | 251 | Q 50 | 11.87 | 41.31 | 41.85 | 43.27 | 1.42 | 43.27 | 1.42 | 42.48 | 44.61 | 0.116621 | 7.36 | 1.61 | 3.00 | 3.21 |
| RIO RUBINO | 251 | Q 200 | 17.20 | 41.31 | 42.00 | 43.27 | 1.27 | 43.27 | 1.27 | 42.80 | 45.54 | 0.118362 | 8.34 | 2.06 | 3.00 | 3.21 |
| RIO RUBINO | 251 | Q 500 | 20.64 | 41.31 | 42.09 | 43.27 | 1.18 | 43.27 | 1.18 | 43.00 | 46.07 | 0.119114 | 8.84 | 2.33 | 3.00 | 3.20 |
| RIO RUBINO | 250 | Q 50 | 11.87 | 40.27 | 40.72 | 43.27 | 2.55 | 43.27 | 2.55 | 41.44 | 44.60 | 0.193884 | 8.72 | 1.36 | 3.00 | 4.13 |
| RIO RUBINO | 250 | Q 200 | 17.20 | 40.27 | 40.87 | 43.27 | 2.40 | 43.27 | 2.40 | 41.77 | 45.53 | 0.176893 | 9.56 | 1.80 | 3.00 | 3.94 |
| RIO RUBINO | 250 | Q 500 | 20.64 | 40.27 | 40.96 | 43.27 | 2.31 | 43.27 | 2.31 | 41.96 | 46.06 | 0.170465 | 10.00 | 2.06 | 3.00 | 3.85 |
| RIO RUBINO | 240 | Q 50 | 11.87 | 40.00 | 40.48 | 41.96 | 1.48 | 41.96 | 1.48 | 41.17 | 43.98 | 0.166807 | 8.30 | 1.43 | 3.00 | 3.83 |
| RIO RUBINO | 240 | Q 200 | 17.20 | 40.00 | 40.62 | 41.96 | 1.34 | 41.96 | 1.34 | 41.50 | 44.95 | 0.158843 | 9.22 | 1.87 | 3.00 | 3.73 |
| RIO RUBINO | 240 | Q 500 | 20.64 | 40.00 | 40.71 | 41.96 | 1.25 | 41.96 | 1.25 | 41.69 | 45.50 | 0.155484 | 9.69 | 2.13 | 3.00 | 3.67 |
| RIO RUBINO | 230 | Q 50 | 11.87 | 38.66 | 39.23 | 40.62 | 1.39 | 40.62 | 1.39 | 39.83 | 41.67 | 0.096805 | 6.92 | 1.72 | 3.00 | 2.92 |
| RIO RUBINO | 230 | Q 200 | 17.20 | 38.66 | 39.38 | 40.62 | 1.24 | 40.62 | 1.24 | 40.16 | 42.59 | 0.102744 | 7.94 | 2.17 | 3.00 | 2.98 |
| RIO RUBINO | 230 | Q 500 | 20.64 | 38.66 | 39.47 | 40.62 | 1.15 | 40.62 | 1.15 | 40.35 | 43.12 | 0.105211 | 8.47 | 2.44 | 3.00 | 3.00 |
| RIO RUBINO | 225 | Q 50 | 11.87 | 37.62 | 38.09 | 40.62 | 2.53 | 40.62 | 2.53 | 38.79 | 41.66 | 0.170876 | 8.36 | 1.42 | 3.00 | 3.88 |
| RIO RUBINO | 225 | Q 200 | 17.20 | 37.62 | 38.24 | 40.62 | 2.38 | 40.62 | 2.38 | 39.12 | 42.58 | 0.159349 | 9.23 | 1.86 | 3.00 | 3.74 |
| RIO RUBINO | 225 | Q 500 | 20.64 | 37.62 | 38.33 | 40.62 | 2.29 | 40.62 | 2.29 | 39.31 | 43.11 | 0.155155 | 9.69 | 2.13 | 3.00 | 3.67 |
| RIO RUBINO | 220 | Q 50 | 11.87 | 37.40 | 37.89 | 39.97 | 2.08 | 39.97 | 2.08 | 38.57 | 41.16 | 0.149640 | 8.00 | 1.48 | 3.00 | 3.63 |
| RIO RUBINO | 220 | Q 200 | 17.20 | 37.40 | 38.04 | 39.97 | 1.93 | 39.97 | 1.93 | 38.89 | 42.11 | 0.144785 | 8.93 | 1.93 | 3.00 | 3.56 |
| RIO RUBINO | 220 | Q 500 | 20.64 | 37.40 | 38.13 | 39.97 | 1.84 | 39.97 | 1.84 | 39.09 | 42.64 | 0.142523 | 9.41 | 2.19 | 3.00 | 3.51 |
| RIO RUBINO | 215 | Q 50 | 11.87 | 37.40 | 37.89 | 39.36 | 1.47 | 39.36 | 1.47 | 38.57 | 41.16 | 0.149640 | 8.00 | 1.48 | 3.00 | 3.63 |
| RIO RUBINO | 215 | Q 200 | 17.20 | 37.40 | 38.04 | 39.36 | 1.32 | 39.36 | 1.32 | 38.89 | 42.11 | 0.144785 | 8.93 | 1.93 | 3.00 | 3.56 |
| RIO RUBINO | 215 | Q 500 | 20.64 | 37.40 | 38.13 | 39.36 | 1.23 | 39.36 | 1.23 | 39.09 | 42.64 | 0.142523 | 9.41 | 2.19 | 3.00 | 3.51 |
| RIO RUBINO | 210 | Q 50 | 11.87 | 35.32 | 35.85 | 37.28 | 1.43 | 37.28 | 1.43 | 36.49 | 38.65 | 0.118612 | 7.40 | 1.60 | 3.00 | 3.23 |
| RIO RUBINO | 210 | Q 200 | 17.20 | 35.32 | 36.00 | 37.28 | 1.28 | 37.28 | 1.28 | 36.82 | 39.59 | 0.120868 | 8.40 | 2.05 | 3.00 | 3.24 |
| RIO RUBINO | 210 | Q 500 | 20.64 | 35.32 | 36.09 | 37.28 | 1.19 | 37.28 | 1.19 | 37.01 | 40.13 | 0.121762 | 8.91 | 2.32 | 3.00 | 3.24 |
| RIO RUBINO | 205 | Q 50 | 11.87 | 33.52 | 33.93 | 37.28 | 3.35 | 37.28 | 3.35 | 34.69 | 38.63 | 0.259498 | 9.60 | 1.24 | 3.00 | 4.77 |

HEC-RAS Plan: SA+Monte_Ks_1a_c River: RIO RUBINO Reach: RIO RUBINO (Continued)

| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | LOB Elev (m) | L. Freeboard (m) | ROB Elev (m) | R. Freeboard (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|------------|-----------|---------|-------------------|------------------|------------------|-----------------|---------------------|-----------------|---------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| RIO RUBINO | 205 | Q 200 | 17.20 | 33.52 | 34.07 | 37.28 | 3.21 | 37.28 | 3.21 | 35.02 | 39.57 | 0.226533 | 10.39 | 1.66 | 3.00 | 4.47 |
| RIO RUBINO | 205 | Q 500 | 20.64 | 33.52 | 34.16 | 37.28 | 3.12 | 37.28 | 3.12 | 35.21 | 40.12 | 0.214105 | 10.82 | 1.91 | 3.00 | 4.33 |
| RIO RUBINO | 200 | Q 50 | 11.87 | 33.44 | 33.89 | 37.05 | 3.16 | 37.05 | 3.16 | 34.61 | 37.88 | 0.202618 | 8.85 | 1.34 | 3.00 | 4.22 |
| RIO RUBINO | 200 | Q 200 | 17.20 | 33.44 | 34.03 | 37.05 | 3.02 | 37.05 | 3.02 | 34.94 | 38.90 | 0.188943 | 9.78 | 1.76 | 3.00 | 4.07 |
| RIO RUBINO | 200 | Q 500 | 20.64 | 33.44 | 34.11 | 37.05 | 2.94 | 37.05 | 2.94 | 35.13 | 39.47 | 0.183159 | 10.25 | 2.01 | 3.00 | 4.00 |
| RIO RUBINO | 195 | Q 50 | 11.87 | 33.44 | 33.89 | 35.52 | 1.63 | 35.52 | 1.63 | 34.61 | 37.88 | 0.202618 | 8.85 | 1.34 | 3.00 | 4.22 |
| RIO RUBINO | 195 | Q 200 | 17.20 | 33.44 | 34.03 | 35.52 | 1.49 | 35.52 | 1.49 | 34.94 | 38.90 | 0.188943 | 9.78 | 1.76 | 3.00 | 4.07 |
| RIO RUBINO | 195 | Q 500 | 20.64 | 33.44 | 34.11 | 35.52 | 1.41 | 35.52 | 1.41 | 35.13 | 39.47 | 0.183159 | 10.25 | 2.01 | 3.00 | 4.00 |
| RIO RUBINO | 190 | Q 50 | 11.87 | 31.79 | 32.27 | 33.77 | 1.50 | 33.77 | 1.50 | 32.96 | 35.69 | 0.160080 | 8.18 | 1.45 | 3.00 | 3.76 |
| RIO RUBINO | 190 | Q 200 | 17.20 | 31.79 | 32.41 | 33.77 | 1.36 | 33.77 | 1.36 | 33.29 | 36.77 | 0.160588 | 9.25 | 1.86 | 3.00 | 3.75 |
| RIO RUBINO | 190 | Q 500 | 20.64 | 31.79 | 32.49 | 33.77 | 1.28 | 33.77 | 1.28 | 33.48 | 37.38 | 0.160152 | 9.79 | 2.11 | 3.00 | 3.73 |
| RIO RUBINO | 185 | Q 50 | 11.87 | 28.73 | 29.08 | 33.77 | 4.69 | 33.77 | 4.69 | 29.90 | 35.65 | 0.434643 | 11.36 | 1.05 | 3.00 | 6.14 |
| RIO RUBINO | 185 | Q 200 | 17.20 | 28.73 | 29.20 | 33.77 | 4.57 | 33.77 | 4.57 | 30.23 | 36.74 | 0.362738 | 12.16 | 1.41 | 3.00 | 5.65 |
| RIO RUBINO | 185 | Q 500 | 20.64 | 28.73 | 29.28 | 33.77 | 4.49 | 33.77 | 4.49 | 30.42 | 37.34 | 0.335035 | 12.58 | 1.64 | 3.00 | 5.43 |
| RIO RUBINO | 180 | Q 50 | 11.87 | 28.40 | 28.79 | 33.17 | 4.38 | 33.17 | 4.38 | 29.57 | 33.93 | 0.297911 | 10.04 | 1.18 | 3.00 | 5.11 |
| RIO RUBINO | 180 | Q 200 | 17.20 | 28.40 | 28.92 | 33.17 | 4.25 | 33.17 | 4.25 | 29.90 | 35.22 | 0.277785 | 11.13 | 1.55 | 3.00 | 4.95 |
| RIO RUBINO | 180 | Q 500 | 20.64 | 28.40 | 28.99 | 33.17 | 4.18 | 33.17 | 4.18 | 30.09 | 35.92 | 0.267375 | 11.66 | 1.77 | 3.00 | 4.85 |
| RIO RUBINO | 175 | Q 50 | 11.87 | 28.58 | 28.98 | 30.42 | 1.44 | 30.42 | 1.44 | 29.75 | 33.92 | 0.280757 | 9.85 | 1.21 | 3.00 | 4.96 |
| RIO RUBINO | 175 | Q 200 | 17.20 | 28.58 | 29.10 | 30.42 | 1.32 | 30.42 | 1.32 | 30.07 | 35.22 | 0.264977 | 10.95 | 1.57 | 3.00 | 4.83 |
| RIO RUBINO | 175 | Q 500 | 20.64 | 28.58 | 29.18 | 30.42 | 1.24 | 30.42 | 1.24 | 30.27 | 35.91 | 0.256264 | 11.50 | 1.80 | 3.00 | 4.74 |
| RIO RUBINO | 170 | Q 50 | 11.87 | 28.58 | 29.00 | 30.42 | 1.42 | 30.42 | 1.42 | 29.75 | 33.58 | 0.250489 | 9.49 | 1.25 | 3.00 | 4.69 |
| RIO RUBINO | 170 | Q 200 | 17.20 | 28.58 | 29.12 | 30.42 | 1.30 | 30.42 | 1.30 | 30.07 | 34.89 | 0.243170 | 10.64 | 1.62 | 3.00 | 4.63 |
| RIO RUBINO | 170 | Q 500 | 20.64 | 28.58 | 29.19 | 30.42 | 1.23 | 30.42 | 1.23 | 30.27 | 35.59 | 0.237809 | 11.21 | 1.84 | 3.00 | 4.57 |
| RIO RUBINO | 165 | Q 50 | 11.87 | 27.90 | 28.29 | 30.42 | 2.13 | 30.42 | 2.13 | 29.07 | 33.58 | 0.311144 | 10.19 | 1.17 | 3.00 | 5.22 |
| RIO RUBINO | 165 | Q 200 | 17.20 | 27.90 | 28.41 | 30.42 | 2.01 | 30.42 | 2.01 | 29.39 | 34.88 | 0.288580 | 11.27 | 1.53 | 3.00 | 5.04 |
| RIO RUBINO | 165 | Q 500 | 20.64 | 27.90 | 28.48 | 30.42 | 1.94 | 30.42 | 1.94 | 29.59 | 35.58 | 0.277291 | 11.81 | 1.75 | 3.00 | 4.94 |
| RIO RUBINO | 160 | Q 50 | 11.87 | 27.48 | 27.89 | 29.44 | 1.55 | 29.44 | 1.55 | 28.65 | 32.71 | 0.270110 | 9.73 | 1.22 | 3.00 | 4.87 |
| RIO RUBINO | 160 | Q 200 | 17.20 | 27.48 | 28.01 | 29.44 | 1.43 | 29.44 | 1.43 | 28.98 | 34.06 | 0.261090 | 10.90 | 1.58 | 3.00 | 4.80 |
| RIO RUBINO | 160 | Q 500 | 20.64 | 27.48 | 28.08 | 29.44 | 1.36 | 29.44 | 1.36 | 29.17 | 34.79 | 0.254939 | 11.48 | 1.80 | 3.00 | 4.73 |
| RIO RUBINO | 155 | Q 50 | 11.87 | 27.48 | 27.89 | 29.44 | 1.55 | 29.44 | 1.55 | 28.65 | 32.71 | 0.270110 | 9.73 | 1.22 | 3.00 | 4.87 |
| RIO RUBINO | 155 | Q 200 | 17.20 | 27.48 | 28.01 | 29.44 | 1.43 | 29.44 | 1.43 | 28.98 | 34.06 | 0.261090 | 10.90 | 1.58 | 3.00 | 4.80 |
| RIO RUBINO | 155 | Q 500 | 20.64 | 27.48 | 28.08 | 29.44 | 1.36 | 29.44 | 1.36 | 29.17 | 34.79 | 0.254791 | 11.47 | 1.80 | 3.00 | 4.73 |
| RIO RUBINO | 150 | Q 50 | 11.87 | 26.18 | 26.71 | 28.14 | 1.43 | 28.14 | 1.43 | 27.35 | 29.57 | 0.123154 | 7.50 | 1.58 | 3.00 | 3.29 |
| RIO RUBINO | 150 | Q 200 | 17.20 | 26.18 | 26.83 | 28.14 | 1.31 | 28.14 | 1.31 | 27.68 | 30.76 | 0.137782 | 8.78 | 1.96 | 3.00 | 3.47 |
| RIO RUBINO | 150 | Q 500 | 20.64 | 26.18 | 26.91 | 28.14 | 1.23 | 28.14 | 1.23 | 27.87 | 31.44 | 0.143684 | 9.43 | 2.19 | 3.00 | 3.53 |
| RIO RUBINO | 145 | Q 50 | 11.87 | 25.49 | 25.98 | 27.45 | 1.47 | 27.45 | 1.47 | 26.66 | 29.28 | 0.152162 | 8.05 | 1.48 | 3.00 | 3.66 |
| RIO RUBINO | 145 | Q 200 | 17.20 | 25.49 | 26.11 | 27.45 | 1.34 | 27.45 | 1.34 | 26.99 | 30.44 | 0.159018 | 9.22 | 1.87 | 3.00 | 3.73 |

HEC-RAS Plan: SA+Monte_Ks_1a_c River: RIO RUBINO Reach: RIO RUBINO (Continued)

| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | LOB Elev (m) | L. Freeboard (m) | ROB Elev (m) | R. Freeboard (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|------------|-----------|---------|-------------------|------------------|------------------|-----------------|---------------------|-----------------|---------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| RIO RUBINO | 145 | Q 500 | 20.64 | 25.49 | 26.19 | 27.45 | 1.26 | 27.45 | 1.26 | 27.18 | 31.12 | 0.162132 | 9.83 | 2.10 | 3.00 | 3.75 |
| RIO RUBINO | 140 | Q 50 | 11.87 | 25.49 | 25.98 | 27.45 | 1.47 | 27.45 | 1.47 | 26.66 | 29.28 | 0.152162 | 8.05 | 1.48 | 3.00 | 3.66 |
| RIO RUBINO | 140 | Q 200 | 17.20 | 25.49 | 26.11 | 27.45 | 1.34 | 27.45 | 1.34 | 26.99 | 30.44 | 0.158927 | 9.22 | 1.87 | 3.00 | 3.73 |
| RIO RUBINO | 140 | Q 500 | 20.64 | 25.49 | 26.19 | 27.45 | 1.26 | 27.45 | 1.26 | 27.18 | 31.12 | 0.162132 | 9.83 | 2.10 | 3.00 | 3.75 |
| RIO RUBINO | 135 | Q 50 | 11.87 | 24.74 | 25.28 | 26.70 | 1.42 | 26.70 | 1.42 | 25.91 | 28.03 | 0.115903 | 7.35 | 1.62 | 3.00 | 3.20 |
| RIO RUBINO | 135 | Q 200 | 17.20 | 24.74 | 25.41 | 26.70 | 1.29 | 26.70 | 1.29 | 26.23 | 29.10 | 0.125714 | 8.51 | 2.02 | 3.00 | 3.31 |
| RIO RUBINO | 135 | Q 500 | 20.64 | 24.74 | 25.49 | 26.70 | 1.21 | 26.70 | 1.21 | 26.43 | 29.73 | 0.130321 | 9.12 | 2.26 | 3.00 | 3.35 |
| RIO RUBINO | 130 | Q 50 | 11.87 | 24.74 | 25.28 | 26.70 | 1.42 | 26.70 | 1.42 | 25.91 | 28.03 | 0.115903 | 7.35 | 1.62 | 3.00 | 3.20 |
| RIO RUBINO | 130 | Q 200 | 17.20 | 24.74 | 25.41 | 26.70 | 1.29 | 26.70 | 1.29 | 26.23 | 29.10 | 0.125646 | 8.51 | 2.02 | 3.00 | 3.31 |
| RIO RUBINO | 130 | Q 500 | 20.64 | 24.74 | 25.49 | 26.70 | 1.21 | 26.70 | 1.21 | 26.43 | 29.73 | 0.130258 | 9.12 | 2.26 | 3.00 | 3.35 |
| RIO RUBINO | 125 | Q 50 | 11.87 | 24.34 | 24.87 | 26.41 | 1.54 | 26.41 | 1.54 | 25.51 | 27.70 | 0.120717 | 7.45 | 1.59 | 3.00 | 3.26 |
| RIO RUBINO | 125 | Q 200 | 17.20 | 24.34 | 25.01 | 26.41 | 1.40 | 26.41 | 1.40 | 25.84 | 28.75 | 0.128253 | 8.57 | 2.01 | 3.00 | 3.34 |
| RIO RUBINO | 125 | Q 500 | 20.64 | 24.34 | 25.09 | 26.41 | 1.32 | 26.41 | 1.32 | 26.03 | 29.37 | 0.132141 | 9.16 | 2.25 | 3.00 | 3.38 |
| RIO RUBINO | 120 | Q 50 | 11.87 | 24.34 | 24.87 | 26.30 | 1.43 | 26.30 | 1.43 | 25.51 | 27.70 | 0.120717 | 7.45 | 1.59 | 3.00 | 3.26 |
| RIO RUBINO | 120 | Q 200 | 17.20 | 24.34 | 25.01 | 26.30 | 1.29 | 26.30 | 1.29 | 25.84 | 28.75 | 0.128183 | 8.57 | 2.01 | 3.00 | 3.34 |
| RIO RUBINO | 120 | Q 500 | 20.64 | 24.34 | 25.09 | 26.30 | 1.21 | 26.30 | 1.21 | 26.03 | 29.37 | 0.132077 | 9.16 | 2.25 | 3.00 | 3.38 |
| RIO RUBINO | 110 | Q 50 | 11.87 | 23.26 | 23.78 | 25.22 | 1.44 | 25.22 | 1.44 | 24.43 | 26.78 | 0.132209 | 7.68 | 1.55 | 3.00 | 3.41 |
| RIO RUBINO | 110 | Q 200 | 17.20 | 23.26 | 23.92 | 25.22 | 1.30 | 25.22 | 1.30 | 24.76 | 27.80 | 0.135209 | 8.73 | 1.97 | 3.00 | 3.44 |
| RIO RUBINO | 110 | Q 500 | 20.64 | 23.26 | 24.00 | 25.22 | 1.22 | 25.22 | 1.22 | 24.95 | 28.40 | 0.137657 | 9.29 | 2.22 | 3.00 | 3.45 |
| RIO RUBINO | 105 | Q 50 | 11.87 | 15.33 | 15.92 | 17.29 | 1.37 | 17.29 | 1.37 | 16.50 | 18.22 | 0.089089 | 6.72 | 1.77 | 3.00 | 2.80 |
| RIO RUBINO | 105 | Q 200 | 17.20 | 15.33 | 16.09 | 17.29 | 1.20 | 17.29 | 1.20 | 16.83 | 19.00 | 0.089007 | 7.56 | 2.28 | 3.00 | 2.77 |
| RIO RUBINO | 105 | Q 500 | 20.64 | 15.33 | 16.19 | 17.29 | 1.10 | 17.29 | 1.10 | 17.02 | 19.44 | 0.089028 | 7.99 | 2.58 | 3.00 | 2.75 |
| RIO RUBINO | 100 | Q 50 | 11.87 | 13.26 | 13.68 | 17.29 | 3.61 | 17.29 | 3.61 | 14.43 | 18.20 | 0.244881 | 9.42 | 1.26 | 3.00 | 4.64 |
| RIO RUBINO | 100 | Q 200 | 17.20 | 13.26 | 13.83 | 17.29 | 3.46 | 17.29 | 3.46 | 14.76 | 18.97 | 0.204921 | 10.05 | 1.71 | 3.00 | 4.25 |
| RIO RUBINO | 100 | Q 500 | 20.64 | 13.26 | 13.92 | 17.29 | 3.37 | 17.29 | 3.37 | 14.95 | 19.42 | 0.190106 | 10.39 | 1.99 | 3.00 | 4.07 |
| RIO RUBINO | 95 | Q 50 | 11.87 | 13.23 | 13.69 | 16.70 | 3.01 | 16.70 | 3.01 | 14.40 | 17.47 | 0.186580 | 8.61 | 1.38 | 3.00 | 4.05 |
| RIO RUBINO | 95 | Q 200 | 17.20 | 13.23 | 13.84 | 16.70 | 2.86 | 16.70 | 2.86 | 14.73 | 18.33 | 0.167880 | 9.39 | 1.83 | 3.00 | 3.84 |
| RIO RUBINO | 95 | Q 500 | 20.64 | 13.23 | 13.93 | 16.70 | 2.77 | 16.70 | 2.77 | 14.92 | 18.82 | 0.160021 | 9.79 | 2.11 | 3.00 | 3.73 |
| RIO RUBINO | 90 | Q 50 | 11.87 | 13.23 | 13.69 | 15.19 | 1.50 | 15.19 | 1.50 | 14.40 | 17.47 | 0.186580 | 8.61 | 1.38 | 3.00 | 4.05 |
| RIO RUBINO | 90 | Q 200 | 17.20 | 13.23 | 13.84 | 15.19 | 1.35 | 15.19 | 1.35 | 14.73 | 18.33 | 0.167880 | 9.39 | 1.83 | 3.00 | 3.84 |
| RIO RUBINO | 90 | Q 500 | 20.64 | 13.23 | 13.93 | 15.19 | 1.26 | 15.19 | 1.26 | 14.92 | 18.82 | 0.160021 | 9.79 | 2.11 | 3.00 | 3.73 |
| RIO RUBINO | 85 | Q 50 | 11.87 | 12.88 | 13.74 | 14.84 | 1.10 | 14.84 | 1.10 | 14.05 | 14.82 | 0.029842 | 4.61 | 2.57 | 3.00 | 1.59 |
| RIO RUBINO | 85 | Q 200 | 17.20 | 12.88 | 13.90 | 14.84 | 0.94 | 14.84 | 0.94 | 14.38 | 15.50 | 0.038101 | 5.60 | 3.07 | 3.00 | 1.77 |
| RIO RUBINO | 85 | Q 500 | 20.64 | 12.88 | 14.00 | 14.84 | 0.84 | 14.84 | 0.84 | 14.57 | 15.91 | 0.042287 | 6.12 | 3.37 | 3.00 | 1.84 |
| RIO RUBINO | 80 | Q 50 | 11.87 | 10.52 | 10.98 | 14.84 | 3.86 | 14.84 | 3.86 | 11.69 | 14.80 | 0.189771 | 8.66 | 1.37 | 3.00 | 4.09 |
| RIO RUBINO | 80 | Q 200 | 17.20 | 10.52 | 11.14 | 14.84 | 3.70 | 14.84 | 3.70 | 12.01 | 15.48 | 0.159119 | 9.22 | 1.86 | 3.00 | 3.73 |
| RIO RUBINO | 80 | Q 500 | 20.64 | 10.52 | 11.24 | 14.84 | 3.60 | 14.84 | 3.60 | 12.21 | 15.88 | 0.148810 | 9.55 | 2.16 | 3.00 | 3.59 |

HEC-RAS Plan: SA+Monte_Ks_1a_c River: RIO RUBINO Reach: RIO RUBINO (Continued)

| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | LOB Elev (m) | L. Freeboard (m) | ROB Elev (m) | R. Freeboard (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|------------|-----------|---------|-------------------|------------------|------------------|-----------------|---------------------|-----------------|---------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| RIO RUBINO | 75 | Q 50 | 11.87 | 10.15 | 10.63 | 13.98 | 3.35 | 13.98 | 3.35 | 11.32 | 14.11 | 0.164851 | 8.26 | 1.44 | 3.00 | 3.81 |
| RIO RUBINO | 75 | Q 200 | 17.20 | 10.15 | 10.79 | 13.98 | 3.19 | 13.98 | 3.19 | 11.65 | 14.88 | 0.146298 | 8.96 | 1.92 | 3.00 | 3.58 |
| RIO RUBINO | 75 | Q 500 | 20.64 | 10.15 | 10.89 | 13.98 | 3.09 | 13.98 | 3.09 | 11.84 | 15.33 | 0.139421 | 9.34 | 2.21 | 3.00 | 3.47 |
| RIO RUBINO | 70 | Q 50 | 11.87 | 10.15 | 10.63 | 12.11 | 1.48 | 12.11 | 1.48 | 11.32 | 14.11 | 0.164851 | 8.26 | 1.44 | 3.00 | 3.81 |
| RIO RUBINO | 70 | Q 200 | 17.20 | 10.15 | 10.79 | 12.11 | 1.32 | 12.11 | 1.32 | 11.65 | 14.88 | 0.146215 | 8.96 | 1.92 | 3.00 | 3.58 |
| RIO RUBINO | 70 | Q 500 | 20.64 | 10.15 | 10.89 | 12.11 | 1.22 | 12.11 | 1.22 | 11.84 | 15.33 | 0.139421 | 9.34 | 2.21 | 3.00 | 3.47 |
| RIO RUBINO | 65 | Q 50 | 11.87 | 9.76 | 10.23 | 11.72 | 1.49 | 11.72 | 1.49 | 10.93 | 13.77 | 0.169137 | 8.33 | 1.42 | 3.00 | 3.86 |
| RIO RUBINO | 65 | Q 200 | 17.20 | 9.76 | 10.39 | 11.72 | 1.33 | 11.72 | 1.33 | 11.25 | 14.58 | 0.151480 | 9.07 | 1.90 | 3.00 | 3.64 |
| RIO RUBINO | 65 | Q 500 | 20.64 | 9.76 | 10.49 | 11.72 | 1.23 | 11.72 | 1.23 | 11.45 | 15.04 | 0.144680 | 9.46 | 2.18 | 3.00 | 3.54 |
| RIO RUBINO | 60 | Q 50 | 11.87 | 9.76 | 10.23 | 11.72 | 1.49 | 11.72 | 1.49 | 10.93 | 13.77 | 0.169137 | 8.33 | 1.42 | 3.00 | 3.86 |
| RIO RUBINO | 60 | Q 200 | 17.20 | 9.76 | 10.39 | 11.72 | 1.33 | 11.72 | 1.33 | 11.25 | 14.58 | 0.151480 | 9.07 | 1.90 | 3.00 | 3.64 |
| RIO RUBINO | 60 | Q 500 | 20.64 | 9.76 | 10.49 | 11.72 | 1.23 | 11.72 | 1.23 | 11.45 | 15.04 | 0.144608 | 9.45 | 2.18 | 3.00 | 3.54 |
| RIO RUBINO | 55 | Q 50 | 11.87 | 7.97 | 8.61 | 9.93 | 1.32 | 9.93 | 1.32 | 9.14 | 10.54 | 0.068519 | 6.15 | 1.93 | 3.00 | 2.45 |
| RIO RUBINO | 55 | Q 200 | 17.20 | 7.97 | 8.78 | 9.93 | 1.15 | 9.93 | 1.15 | 9.47 | 11.32 | 0.073256 | 7.06 | 2.44 | 3.00 | 2.50 |
| RIO RUBINO | 55 | Q 500 | 20.64 | 7.97 | 8.88 | 9.93 | 1.05 | 9.93 | 1.05 | 9.66 | 11.77 | 0.075478 | 7.53 | 2.74 | 3.00 | 2.52 |
| RIO RUBINO | 50 | Q 50 | 11.87 | 7.97 | 8.61 | 9.93 | 1.32 | 9.93 | 1.32 | 9.14 | 10.54 | 0.068519 | 6.15 | 1.93 | 3.00 | 2.45 |
| RIO RUBINO | 50 | Q 200 | 17.20 | 7.97 | 8.78 | 9.93 | 1.15 | 9.93 | 1.15 | 9.47 | 11.32 | 0.073221 | 7.06 | 2.44 | 3.00 | 2.50 |
| RIO RUBINO | 50 | Q 500 | 20.64 | 7.97 | 8.88 | 9.93 | 1.05 | 9.93 | 1.05 | 9.66 | 11.77 | 0.075446 | 7.53 | 2.74 | 3.00 | 2.52 |
| RIO RUBINO | 45 | Q 50 | 11.87 | 4.00 | 4.76 | 5.96 | 1.20 | 5.96 | 1.20 | 5.17 | 6.13 | 0.041805 | 5.19 | 2.29 | 3.00 | 1.90 |
| RIO RUBINO | 45 | Q 200 | 17.20 | 4.00 | 4.99 | 5.96 | 0.97 | 5.96 | 0.97 | 5.50 | 6.70 | 0.041841 | 5.80 | 2.97 | 3.00 | 1.86 |
| RIO RUBINO | 45 | Q 500 | 20.64 | 4.00 | 5.13 | 5.96 | 0.83 | 5.96 | 0.83 | 5.69 | 7.02 | 0.041759 | 6.10 | 3.39 | 3.00 | 1.83 |
| RIO RUBINO | 40 | Q 50 | 11.87 | 4.00 | 4.76 | 5.96 | 1.20 | 5.96 | 1.20 | 5.17 | 6.13 | 0.041782 | 5.19 | 2.29 | 3.00 | 1.90 |
| RIO RUBINO | 40 | Q 200 | 17.20 | 4.00 | 4.99 | 5.96 | 0.97 | 5.96 | 0.97 | 5.50 | 6.70 | 0.041822 | 5.79 | 2.97 | 3.00 | 1.86 |
| RIO RUBINO | 40 | Q 500 | 20.64 | 4.00 | 5.13 | 5.96 | 0.83 | 5.96 | 0.83 | 5.69 | 7.02 | 0.041759 | 6.10 | 3.39 | 3.00 | 1.83 |
| RIO RUBINO | 35 | Q 50 | 11.87 | 4.06 | 4.87 | 5.68 | 0.81 | 5.68 | 0.81 | 5.23 | 6.09 | 0.035494 | 4.90 | 2.42 | 3.00 | 1.74 |
| RIO RUBINO | 35 | Q 200 | 17.20 | 4.06 | 5.10 | 5.68 | 0.58 | 5.68 | 0.58 | 5.56 | 6.66 | 0.036785 | 5.53 | 3.11 | 3.00 | 1.74 |
| RIO RUBINO | 35 | Q 500 | 20.64 | 4.06 | 5.24 | 5.68 | 0.44 | 5.68 | 0.44 | 5.68 | 6.98 | 0.037209 | 5.85 | 3.53 | 3.00 | 1.72 |
| RIO RUBINO | 30 | Q 50 | 11.87 | 3.52 | 4.18 | 5.18 | 1.00 | 5.18 | 1.00 | 4.69 | 6.00 | 0.062777 | 5.97 | 1.99 | 3.00 | 2.34 |
| RIO RUBINO | 30 | Q 200 | 17.20 | 3.52 | 4.40 | 5.18 | 0.78 | 5.18 | 0.78 | 5.02 | 6.56 | 0.058324 | 6.52 | 2.64 | 3.00 | 2.22 |
| RIO RUBINO | 30 | Q 500 | 20.64 | 3.52 | 4.53 | 5.18 | 0.65 | 5.18 | 0.65 | 5.18 | 6.89 | 0.056537 | 6.80 | 3.04 | 3.00 | 2.16 |
| RIO RUBINO | 28 | Q 50 | 11.87 | 3.02 | 3.60 | 4.98 | 1.38 | 4.98 | 1.38 | 4.19 | 5.99 | 0.094365 | 6.86 | 1.73 | 3.00 | 2.88 |
| RIO RUBINO | 28 | Q 200 | 17.20 | 3.02 | 3.80 | 4.98 | 1.18 | 4.98 | 1.18 | 4.52 | 6.56 | 0.082452 | 7.36 | 2.34 | 3.00 | 2.66 |
| RIO RUBINO | 28 | Q 500 | 20.64 | 3.02 | 3.92 | 4.98 | 1.06 | 4.98 | 1.06 | 4.71 | 6.88 | 0.077871 | 7.62 | 2.71 | 3.00 | 2.56 |
| RIO RUBINO | 25 | Q 50 | 11.87 | 1.95 | 2.68 | 3.91 | 1.23 | 3.91 | 1.23 | 3.12 | 4.17 | 0.046836 | 5.40 | 2.20 | 3.00 | 2.01 |
| RIO RUBINO | 25 | Q 200 | 17.20 | 1.95 | 2.89 | 3.91 | 1.02 | 3.91 | 1.02 | 3.45 | 4.79 | 0.048719 | 6.12 | 2.81 | 3.00 | 2.02 |
| RIO RUBINO | 25 | Q 500 | 20.64 | 1.95 | 3.01 | 3.91 | 0.90 | 3.91 | 0.90 | 3.64 | 5.15 | 0.049330 | 6.47 | 3.19 | 3.00 | 2.00 |

HEC-RAS Plan: SA+Monte_Ks_1a_c River: RIO RUBINO Reach: RIO RUBINO (Continued)

| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | LOB Elev (m) | L. Freeboard (m) | ROB Elev (m) | R. Freeboard (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|------------|-----------|---------|-------------------|------------------|------------------|-----------------|---------------------|-----------------|---------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| RIO RUBINO | 20 | Q 50 | 11.87 | 0.88 | 1.42 | 3.91 | 2.49 | 3.91 | 2.49 | 2.05 | 4.16 | 0.115047 | 7.33 | 1.62 | 3.00 | 3.18 |
| RIO RUBINO | 20 | Q 200 | 17.20 | 0.88 | 1.61 | 3.91 | 2.30 | 3.91 | 2.30 | 2.38 | 4.78 | 0.100915 | 7.89 | 2.18 | 3.00 | 2.96 |
| RIO RUBINO | 20 | Q 500 | 20.64 | 0.88 | 1.72 | 3.91 | 2.19 | 3.91 | 2.19 | 2.57 | 5.13 | 0.095567 | 8.19 | 2.52 | 3.00 | 2.85 |
| RIO RUBINO | 10 | Q 50 | 11.87 | 0.82 | 1.44 | 3.91 | 2.47 | 3.91 | 2.47 | 1.99 | 3.52 | 0.076438 | 6.38 | 1.86 | 3.00 | 2.59 |
| RIO RUBINO | 10 | Q 200 | 17.20 | 0.82 | 1.63 | 3.91 | 2.28 | 3.91 | 2.28 | 2.32 | 4.19 | 0.073893 | 7.08 | 2.43 | 3.00 | 2.51 |
| RIO RUBINO | 10 | Q 500 | 20.64 | 0.82 | 1.74 | 3.91 | 2.17 | 3.91 | 2.17 | 2.51 | 4.56 | 0.072842 | 7.44 | 2.77 | 3.00 | 2.47 |
| RIO RUBINO | 5 | Q 50 | 11.87 | -0.68 | -0.22 | 3.91 | 4.13 | 3.91 | 4.13 | 0.49 | 3.50 | 0.182045 | 8.54 | 1.39 | 3.00 | 4.00 |
| RIO RUBINO | 5 | Q 200 | 17.20 | -0.68 | -0.05 | 3.91 | 3.96 | 3.91 | 3.96 | 0.82 | 4.17 | 0.152801 | 9.10 | 1.89 | 3.00 | 3.66 |
| RIO RUBINO | 5 | Q 500 | 20.64 | -0.68 | 0.05 | 3.91 | 3.86 | 3.91 | 3.86 | 1.01 | 4.55 | 0.141879 | 9.39 | 2.20 | 3.00 | 3.50 |
| RIO RUBINO | 1 | Q 50 | 11.87 | -0.68 | -0.17 | 3.91 | 4.08 | 3.91 | 4.08 | 0.49 | 2.85 | 0.132932 | 7.69 | 1.54 | 3.00 | 3.42 |
| RIO RUBINO | 1 | Q 200 | 17.20 | -0.68 | 0.00 | 3.91 | 3.91 | 3.91 | 3.91 | 0.82 | 3.60 | 0.121002 | 8.40 | 2.05 | 3.00 | 3.25 |
| RIO RUBINO | 1 | Q 500 | 20.64 | -0.68 | 0.11 | 3.91 | 3.80 | 3.91 | 3.80 | 1.01 | 4.01 | 0.115800 | 8.75 | 2.36 | 3.00 | 3.15 |