

ANEJO 2

APÉNDICE. CARACTERIZACIÓN DEL FUNCIONAMIENTO HIDRÁULICO DEL CAUCE

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1. OBJETIVO

Tal y como se expone en el apartado **3. Estudio del río** del presente Anejo se requiere tener caracterizado con un modelo matemático el funcionamiento hidráulico del cauce aguas abajo del Azud de Terrateig. De este modo obtendremos de una manera justificada la cota de la lámina de agua en la sección inmediatamente aguas abajo de la presa.

Como modelo matemático unidimensional se emplea la aplicación HEC-RAS, una herramienta del Hydrologic Engineering Center (HEC) del Cuerpo de Ingenieros del Ejército de los EE.UU. (U.S. Army Corps of Engineers –USACE–), de uso muy extendido y contrastada en numerosos estudios.

Se debe modelar un tramo del río Vernissa lo suficientemente largo como para que el posible error cometido en la imposición de la condición de contorno (en adelante, c.c.) de aguas abajo de dicho tramo no repercuta en absoluto en las condiciones hidráulicas (calado y velocidad) de la sección de reintegro de caudales al río desde los órganos de disipación de energía de los aliviaderos del Azud de Terrateig. Es decir, en la sección que va a constituir para los mismos, su particular c.c. de nivel de lámina libre en el cauce, fundamental para su correcto análisis, el de su funcionamiento y además, el que llevará a las modificaciones que en su caso sean necesarias para corregir las anomalías que se detecten.

2. ESTUDIO DE RUGOSIDADES

Como paso previo a la modelación matemática del cauce, es necesario caracterizar el mismo desde el punto de vista de la rugosidad, elaborando para ello un estudio de rugosidades del tramo de río a evaluar.

Se emplea el “**Método modificado de Cowan para la determinación de rugosidades en ríos**” (Chow, 1959), el cual estima el coeficiente de rugosidad de Manning (**n**) como suma y ponderación de unos factores de incidencia (**Figura 1**).

Table C.2 Modified Cowan method for determining channel roughness

$$\text{Manning's } n = (n_b + n_1 + n_2 + n_3 + n_4) m$$

Channel condition		n and m values	Description
Channel material (n_b)	Earth	0.020	Clay-based channels.
	Bed rock	0.025	Channels cut into bed rock.
	Sand-fine gravel	0.024*	Sandy creeks.
	Coarse gravel	0.026	Gravel-based creeks (otherwise use Eqn C.1).
Degree of irregularity (n_1)	Smooth	0.0	Smooth channel.
	Minor	0.001–0.005	Excavated channels in good condition.
	Moderate	0.006–0.010	Channels with considerable bed roughness and some bank erosion.
	Severe	0.011–0.020*	Natural' channels: pools and riffles, exposed tree roots, boulders, and/or irregular banks.
Variation in channel cross section (n_2)	Uniform	0.0	Near-uniform channel section.
	Gradual	0.001–0.005*	Large and small cross sections alternate occasionally (eg. typical NCD $n_2 = 0.003$).
	Severe	0.010–0.015	Large and small cross sections alternate frequently (eg. a significant pool-riffle system).
Effect of obstructions (n_3) excluding vegetation	Negligible	0.0–0.004	A few scattered obstructions (boulders, trees, logs) that occupy less than 5% of the channel.
	Minor	0.005–0.015*	Obstructions occupy 5–15% of the channel and the obstructions are generally isolated.
	Appreciable	0.020–0.030	Obstructions occupy 15–50% of the channel.
	Severe	0.040–0.050	Obstructions occupy more than 50% of the channel (eg. severe debris collection).
Amount of vegetation (n_4) Consideration should be given to the obstruction caused by vegetation relative to channel width and depth	Small	0.002–0.010	Grasses and/or weeds with the flow at least three times the height of the vegetation.
	Medium	0.010–0.025*	Grass and/or weeds with the flow one to two times the height of the vegetation; or reeds or tree seedlings growing with the flow two to three times the vegetation height; or minor bed vegetation with medium bank vegetation.
	Large	0.025–0.050	Grasses and/or weeds with flow depth equal to vegetation height; or weedy beds with thick bank vegetation; or moderate shrub growth across the bed and banks.
	Very Large	0.050–0.100	Grass and/or weeds more than twice the height of flow depth; or dense, strong reed growth; or significant shrub growth within the channel; or significant inflexible vegetation within channel.
Degree of channel meandering (m)	Minor	1.00	Channel sinuosity is 1.0 to 1.2
	Appreciable	1.15*	Channel sinuosity is 1.2 to 1.5
	Severe	1.30	Channel sinuosity is greater than 1.5 or; $m = 0.57 + 0.43 (\text{Sinuosity})$, but ≥ 1.30

Figura 1. Método de Cowan para la estimación de rugosidades (Chow, 1959)

El objetivo del estudio es obtener una estimación de los diferentes valores de la rugosidad de Manning (n) en función del tipo de vegetación que aparece en las distintas zonas identificadas en el cauce.

Para la identificación de estas zonas se dispone de la siguiente información:

- Fotografías realizadas en el tramo de cauce en estudio, aportadas por la Dirección de Obra. En estas fotografías se puede evaluar el tipo de vegetación y la frondosidad de la misma. La referencia de dichas imágenes se muestra en la **Figura 2** y éstas en la **Figura 3**.
- Información geológica, obtenida del *Anejo 05 Geotecnia* del Proyecto Técnico del Azud de Terrateig. La ubicación de los sondeos se muestra en la **Figura 4** y los resultados de los mismos en la **Figura 5**.
- Mapa geológico de detalle de la cartografía geológica MAGNA del Instituto Geológico y Minero de España (IGME) (**Figura 6**)
- Ortofoto de la zona de estudio (**Figura 7**) obtenida de cartografía temática de la Comunidad Valenciana, Conselleria de Medio Ambiente, Agua, Urbanismo y Vivienda.
- Eje del río con varias secciones en el tramo a estudiar, obtenidas para el caudal de proyecto y una rugosidad en el cauce homogénea de 0,07 (**Figura 8**).



Figura 2. Referencia de las fotografías



Figura 3. Fotografías del cauce

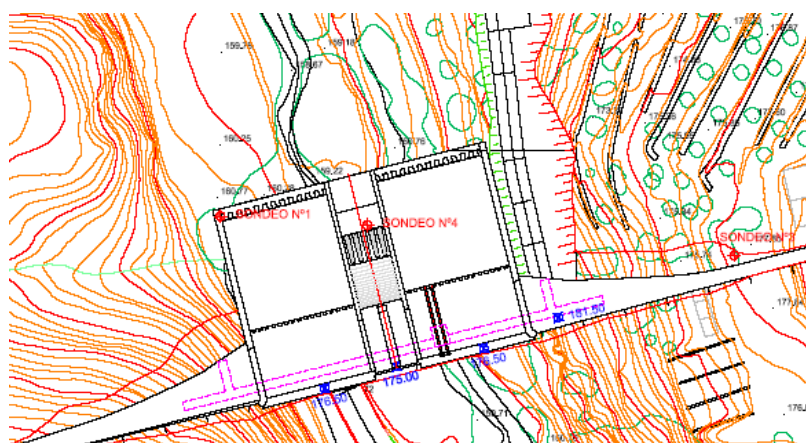


Figura 4. Ubicación sondeos

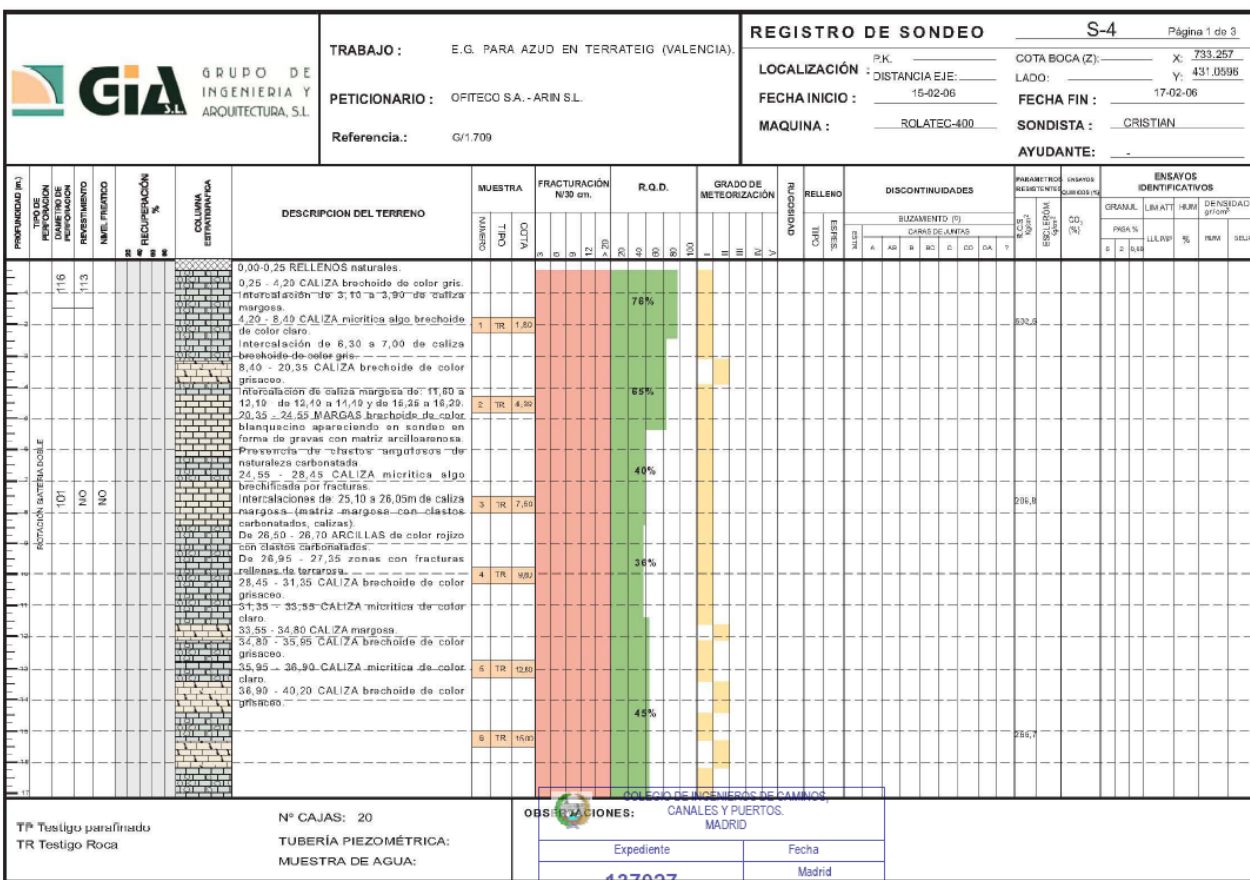


Figura 5. Resultado sondeos

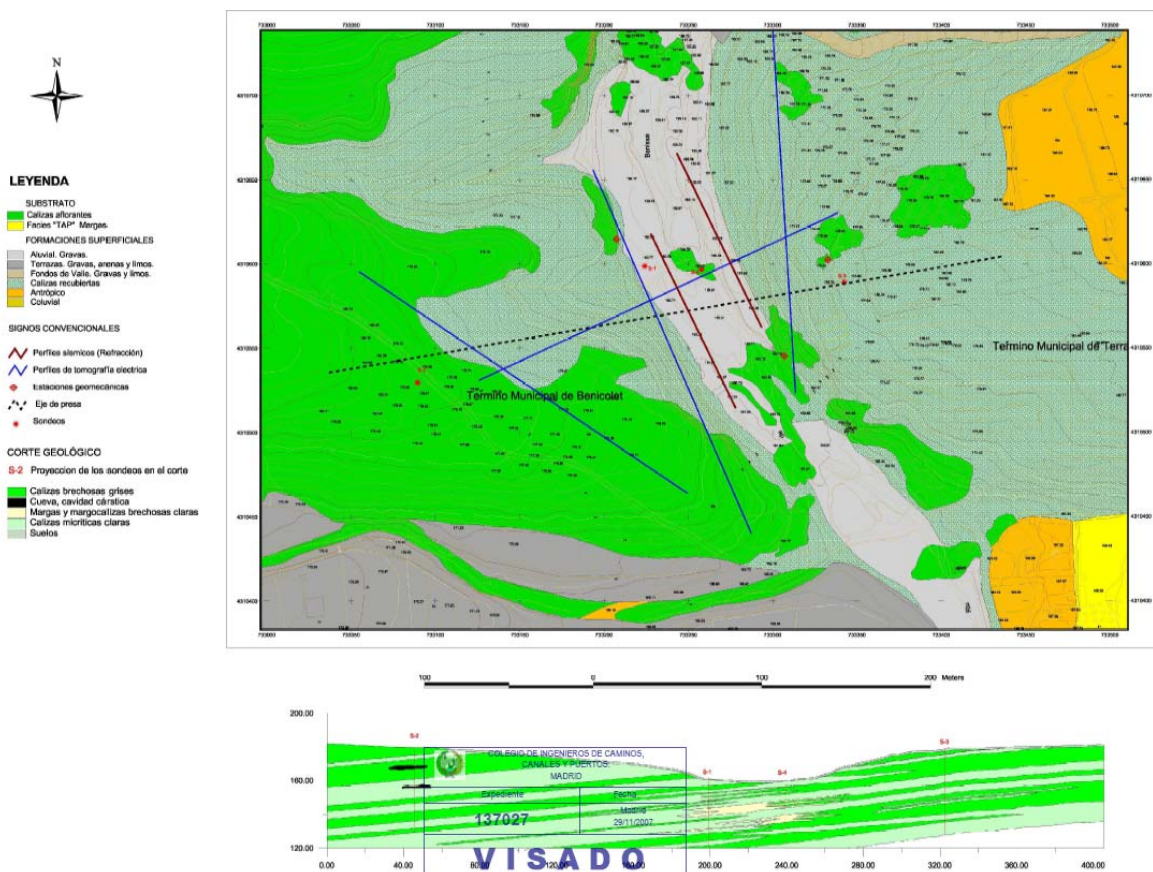


Figura 6. Mapa geológico de la zona de actuación



Figura 7. Ortofoto de la zona de estudio

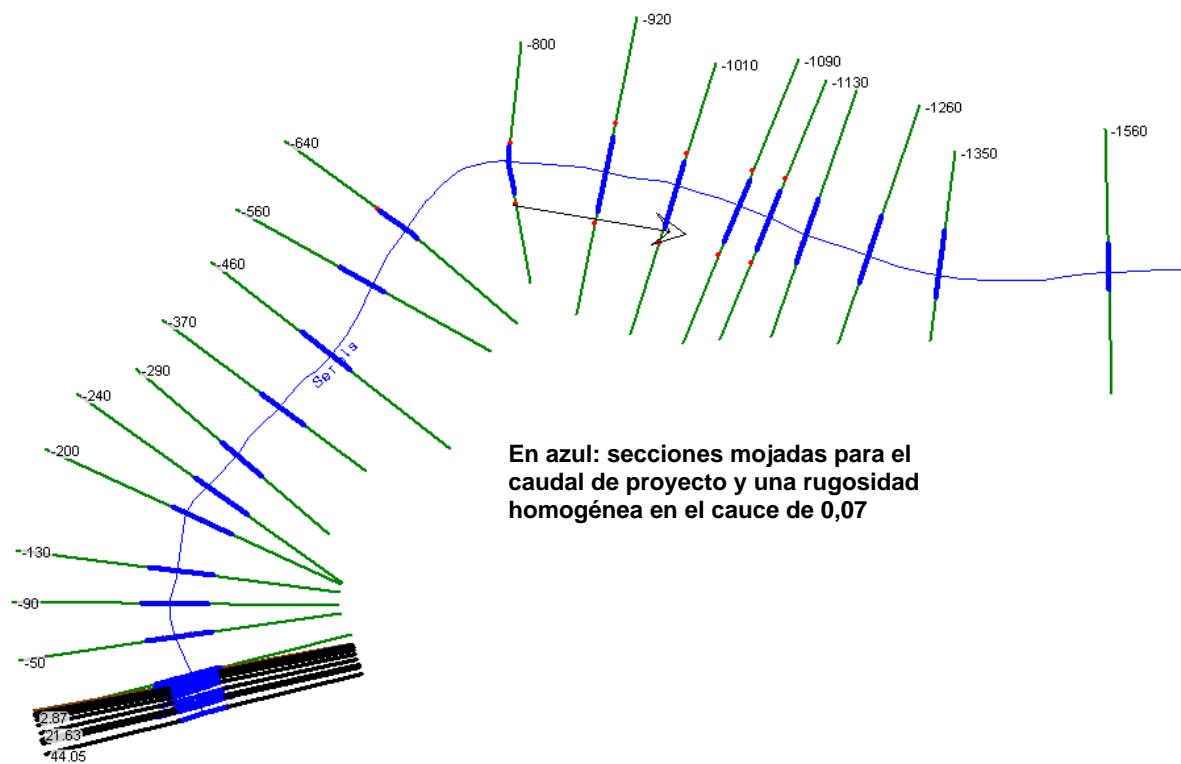


Figura 8. Secciones en tramo de estudio

Con toda esta información se van delimitando zonas cuyo tipo de vegetación y frondosidad sea similar (**Figura 9**).

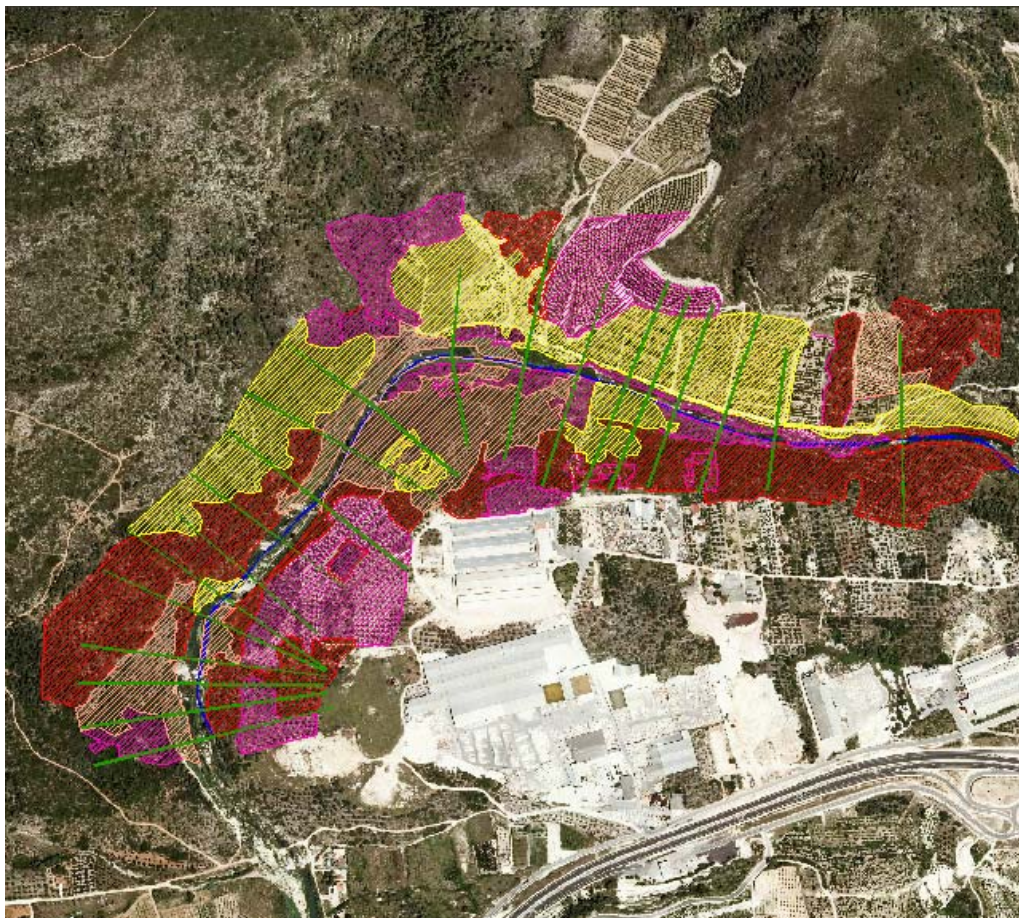


Figura 9. Delimitación zonal en función del tipo y densidad de vegetación

Se distinguen cuatro clases de vegetación para las laderas del río: arbórea densa (AD), arbórea clara (AC), arbustiva (A) y herbácea (H) (**Figura 10**).

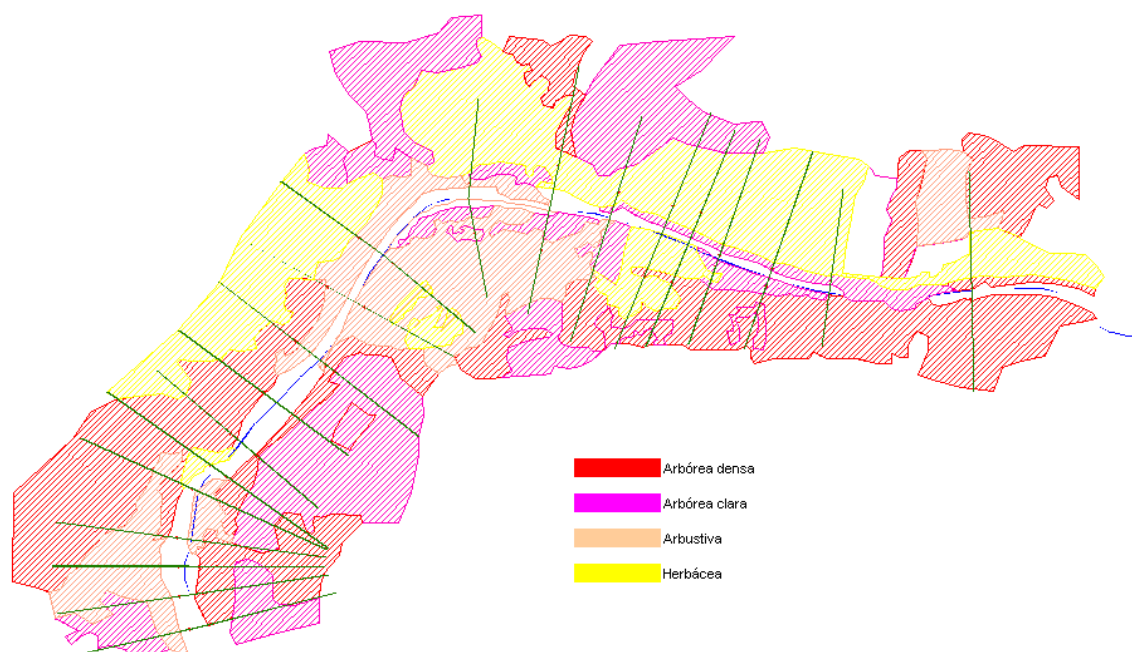


Figura 10. Zonas obtenidas del análisis

Para todo el lecho del cauce principal se designa una única zona (L), formada por material aluvial y roca (**Figura 11**).



Figura 11. Aluviones recubriendo las calizas en el cauce del Vernissa

Por tanto, a cada una de las secciones elegidas del tramo de estudio, le corresponde la asignación zonal de la **Tabla 1**.

Tabla 1. Asignación de zonas para cada sección de estudio					
Sección		ZONA			
		Ladera MI	CAUCE	Ladera MD	
-5.8	sinuoso	A	L	AD	sinuoso
-50		A	L	AD	
-90		A	L	AD	
-130		A	L	A	
-200		AD	L	A	
-240		AD	L	AD	
-290		AD	L	AD	
-370		AD	L	AD	
-460		AD	L	AD	
-560		A	L	A	
-640		A	L	A	
-800		A	L	A	
-920		A	L	A	
-1010		AC	L	A	
-1090		AC	L	H	
-1130		AC	L	H	
-1180		AC	L	AC	
-1260		AC	L	AC	
-1350		AC	L	AD	
-1560		AC	L	AD	

Tras este trabajo previo, se aplica el método de Cowan para obtener una estimación de la rugosidad de cada una de las cinco zonas definidas: AD, AC, A, H y L (**Tabla 2**).

Tabla 2. Estimación de la rugosidad según el procedimiento de Cowan

Zona	Descripción	Zona afección	Suelos	Vegetación	Dm (m)	Estimación de la rugosidad según el procedimiento de Cowan						n
						Base	Irregularidad	Sección	Obstrucc.	Vegetación	Sinuosidad	
						n ₀	n ₁	n ₂	n ₃	n ₄	m ₅	
L	Cauce natural único sinuoso, con lecho de gravas y afloramientos de roca	Lecho cauce principal	Roca y Aluvial de gravas	baja de carácter herbáceo	0,0700	0,0310	0,005	0	0	0,006	1,15	0,048
AD	Cauce natural único sinuoso, con lecho de gravas y afloramientos de roca	Márgenes tipo AD	Aluvial de gravas y calizas recubiertas de suelos limosos y arcillosos	Masa arbórea densa (masa forestal o cultivada con alta densidad de especies arbóreas)	0,0100	0,0220	0,005	0	0	0,06	1,15	0,100
AC	Cauce natural único sinuoso, con lecho de gravas y afloramientos de roca	Márgenes tipo AC	Aluvial de gravas y calizas recubiertas de suelos limosos y arcillosos	Masa arbórea clara (masa forestal o cultivada con baja densidad de especies arbóreas)	0,0100	0,0220	0,005	0	0	0,05	1,15	0,089
A	Cauce natural único sinuoso, con lecho de gravas y afloramientos de roca	Márgenes tipo A	Aluvial de gravas y calizas recubiertas de suelos limosos y arcillosos	Arbustivas (matorral más o menos denso y cultivos no arbóreos ni herbáceos. Ejemplo: cañas y baladre)	0,0100	0,0220	0,005	0	0	0,04	1,15	0,077
H	Cauce natural único sinuoso, con lecho de gravas y afloramientos de roca	Márgenes tipo H	Aluvial de gravas y calizas recubiertas de suelos limosos y arcillosos	Herbáceas	0,0100	0,0220	0,005	0	0	0,025	1,15	0,060

Sustituyendo cada uno de los cinco tipos de zonas definidos por el correspondiente valor de la rugosidad (n) obtenido del método de Cowan, se obtiene una justificada caracterización de las rugosidades del tramo de río en estudio (**Tabla 3**), la cual es absolutamente necesaria para determinar, con el modelo matemático, un valor más realista del calado en la sección del cauce inmediatamente aguas abajo del Azud de Terrateig.

Tabla 3. Asignación de valores a cada zona			
Sección	ZONA		
	Ladera MI	CAUCE	Ladera MD
-5.8	0,077	0,048	0,100
-50	0,077	0,048	0,100
-90	0,077	0,048	0,100
-130	0,077	0,048	0,077
-200	0,100	0,048	0,077
-240	0,100	0,048	0,100
-290	0,100	0,048	0,100
-370	0,100	0,048	0,100
-460	0,100	0,048	0,100
-560	0,077	0,048	0,077
-640	0,077	0,048	0,077
-800	0,077	0,048	0,077
-920	0,077	0,048	0,077
-1010	0,089	0,048	0,077
-1090	0,089	0,048	0,060
-1130	0,089	0,048	0,060
-1180	0,089	0,048	0,089
-1260	0,089	0,048	0,089
-1350	0,089	0,048	0,100
-1560	0,089	0,048	0,100

3. MODELACIÓN DEL TRAMO DE RÍO VERNISSA EN ESTUDIO

Finalizado pues el estudio de rugosidades, se pasa a caracterizar el funcionamiento hidráulico del cauce con la ayuda del programa HEC-RAS.

En primer lugar se realiza la definición geométrica del problema, es decir, se define el eje del río (se simulan 1600 m de cauce) y la geometría de las secciones empleadas en el

apartado anterior (**Figura 12**) (el resto de secciones entre las definidas las interpola el programa).

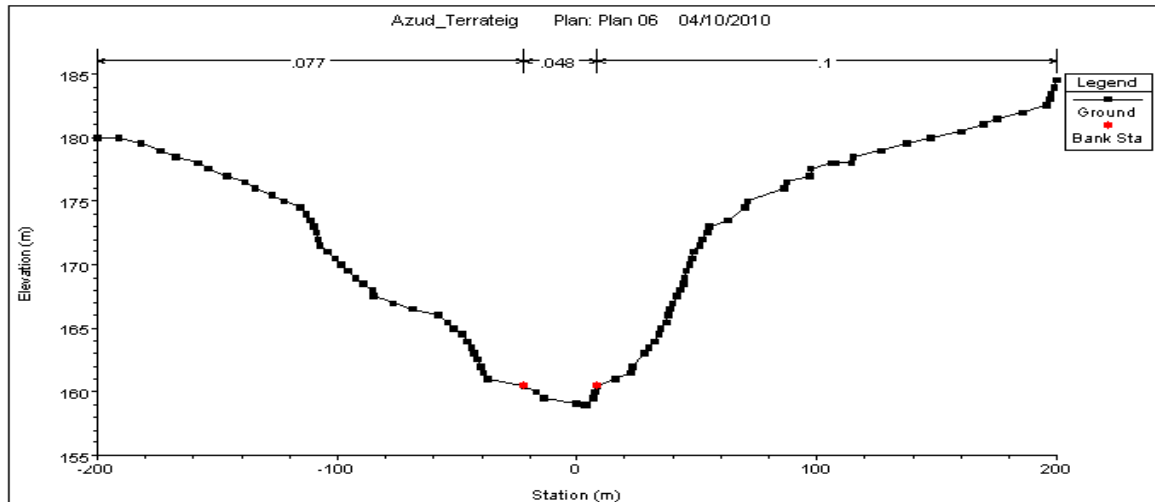


Figura 12. Geometría de una sección del río Vernissa en HEC-RAS

En la **Figura 13** se puede ver una imagen tridimensional de la geometría del tramo de cauce objeto de estudio introducido en el programa.

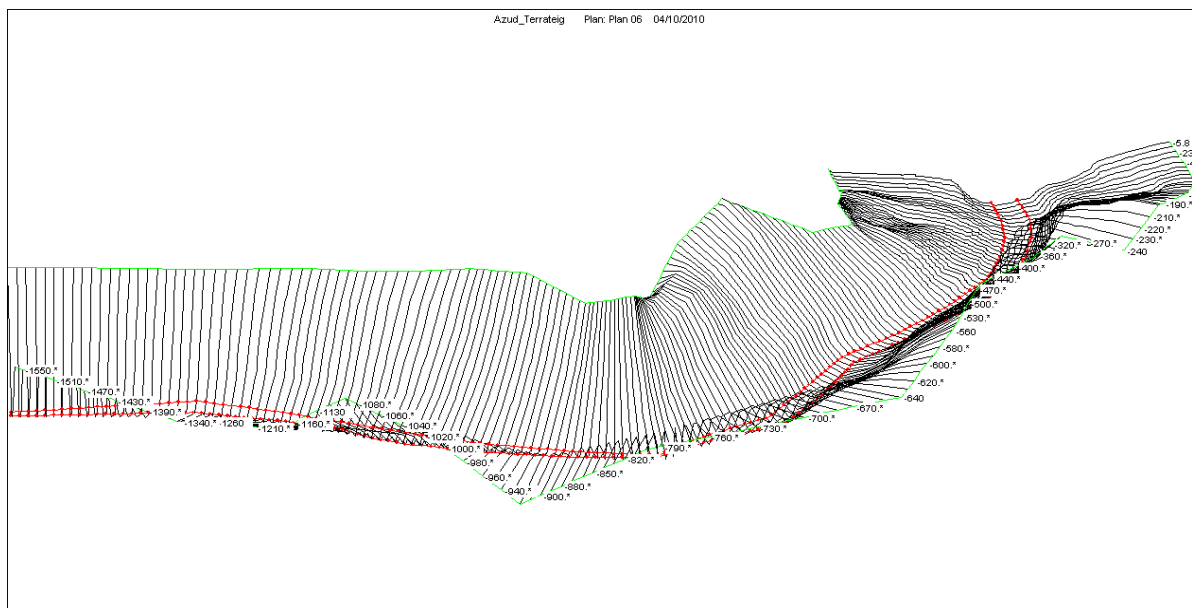


Figura 13. Vista 3D de la geometría del tramo del río Vernissa en estudio

En segundo lugar, se introduce el caudal de proyecto ($Q_{T=1000 \text{ años}}=905,94 \text{ m}^3/\text{s}$), las condiciones de contorno (c.c.) de aguas arriba (calado crítico) y las de aguas abajo (nivel de la lámina de agua conocido en la sección de cauce a 1600 m del pie de presa) para que el programa calcule ocho perfiles de la lámina de agua de los que únicamente cambia la c.c. de aguas abajo (niveles entre las cotas 154 y 166 m.s.n.m. cada 2 m) (**Figura 14**). El rango de cotas elegido para la c.c. de aguas abajo tiene el límite superior

en 166 m.s.n.m. porque, desde el punto de vista del comportamiento hidráulico del cauce, que el nivel de la lámina de agua alcance esta cota a 1600 m del pie de presa resultaría bastante inverosímil, pues implicaría calados de unos 19 m. Asimismo, el límite inferior viene determinado por el conjugado mayor del resalto que se produce en los cuencos es del orden de 7 m y ese es el orden de los calados esperables en el cauce de reintegro–.

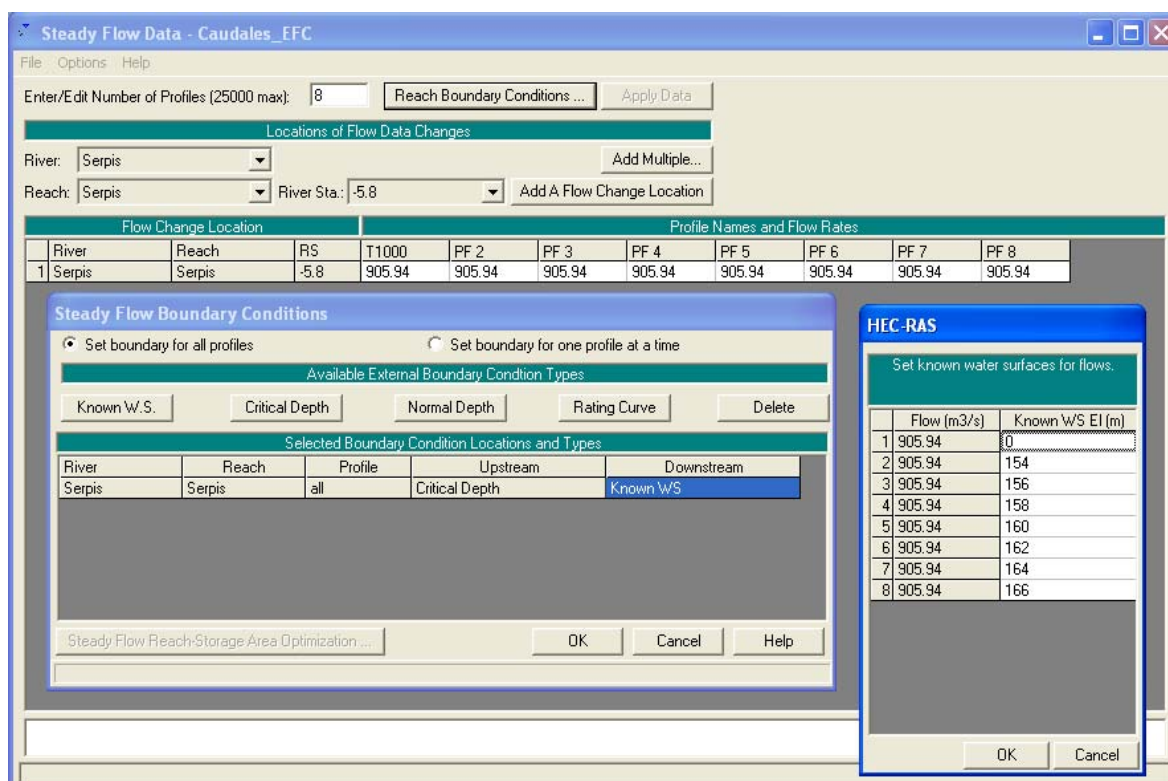
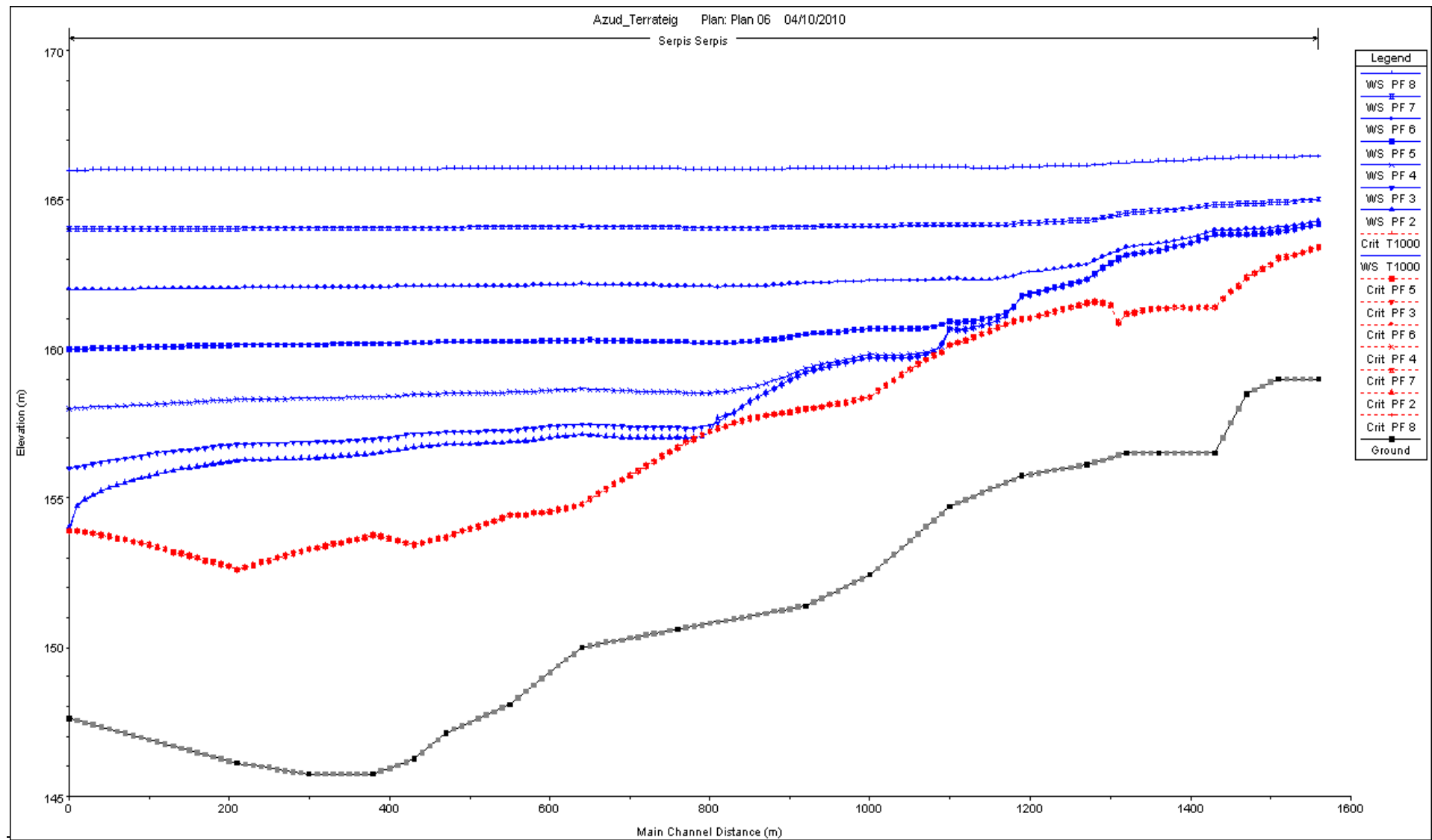
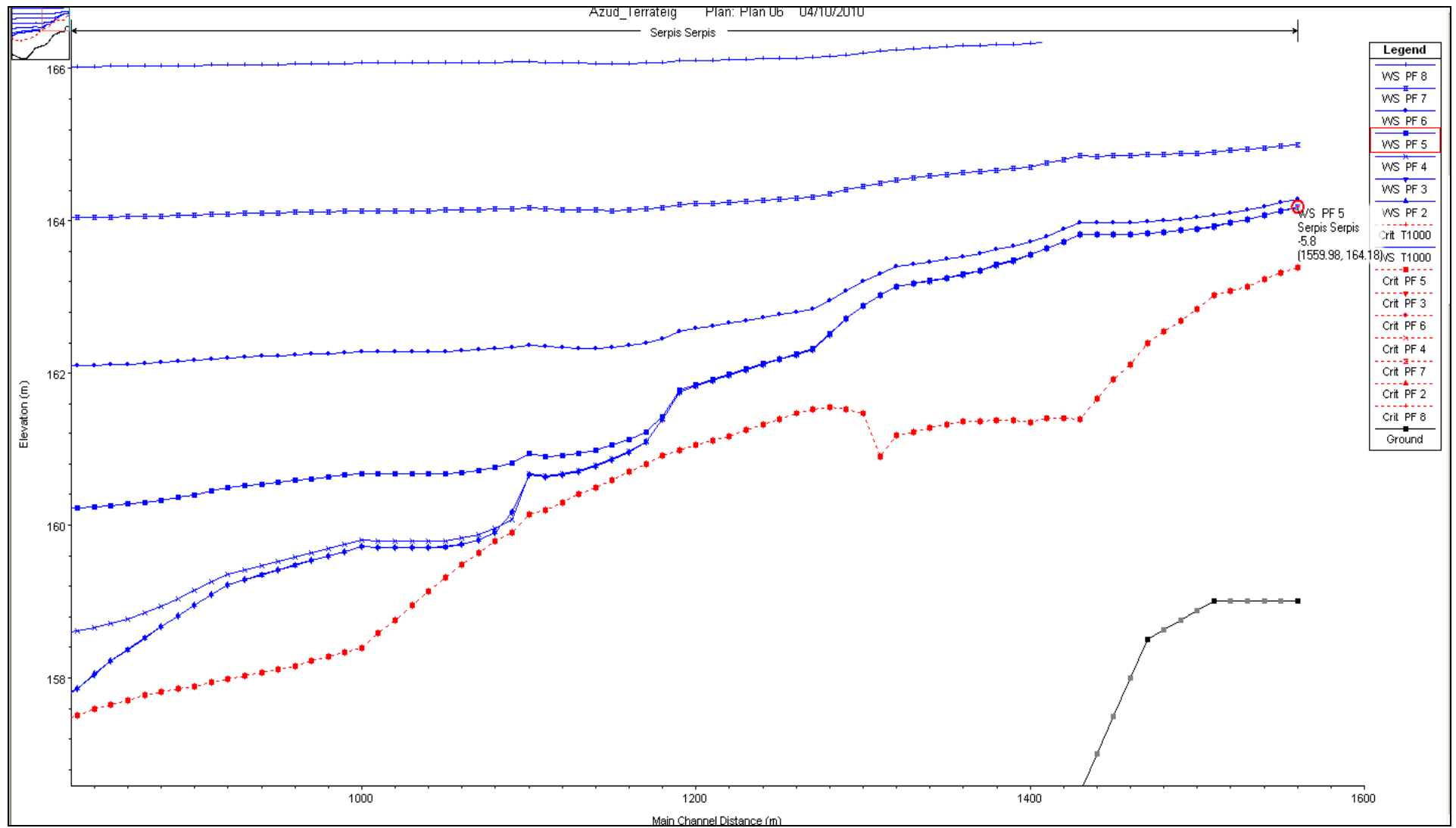


Figura 14. Introducción de datos en HEC-RAS

En último lugar, tras la ejecución de la simulación, se obtienen las gráficas y tablas de resultados expuestas a continuación y de las que se extraen las conclusiones referidas en el presente Anejo.





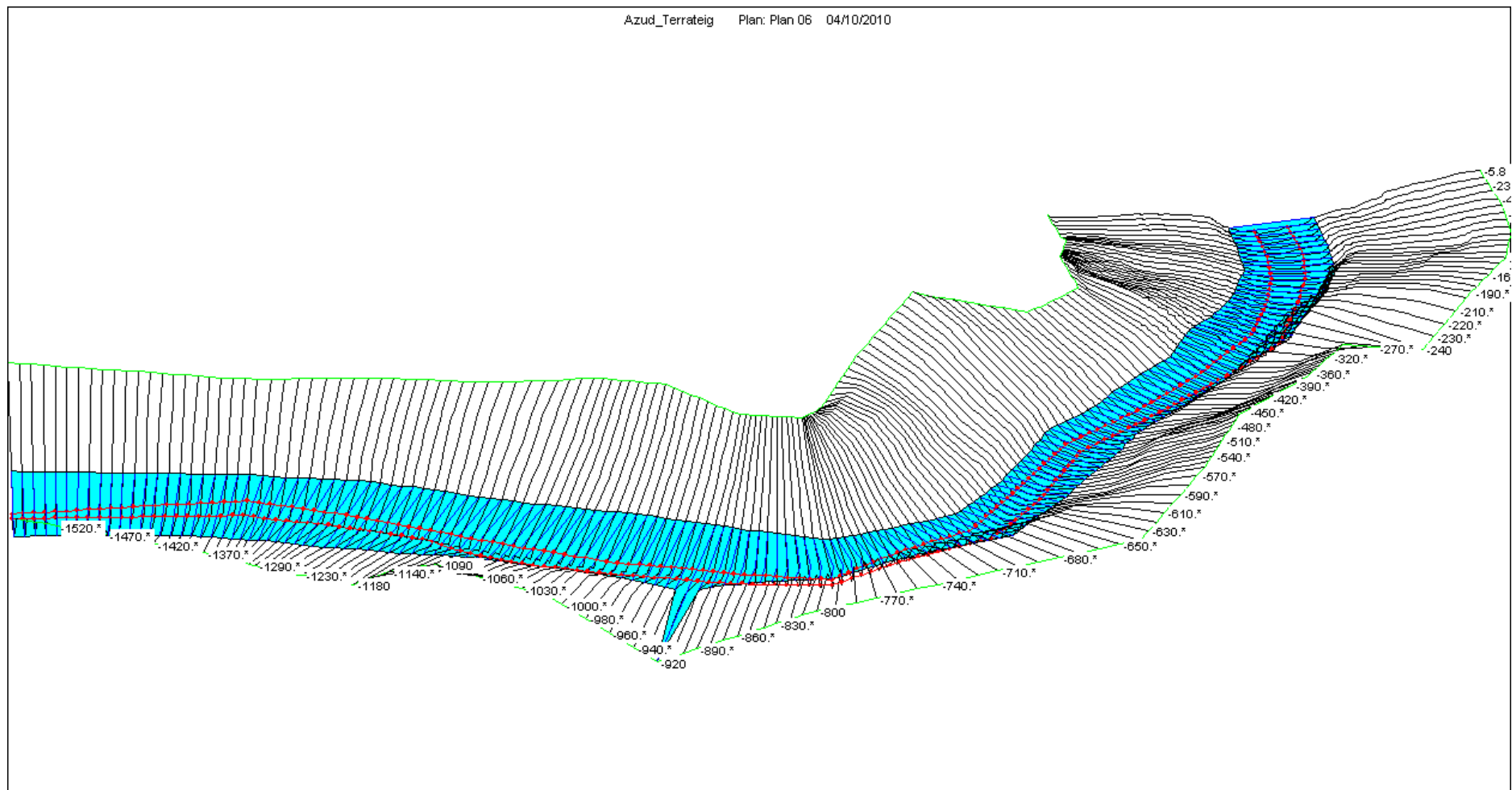


Tabla 4. Salida de resultados del HEC-RAS

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-5.8	T1000	905.94	159	164.18	163.39	165.11	0.006876	4.79	0.71
Serpis	-5.8	PF 2	905.94	159	164.18	163.39	165.11	0.006876	4.79	0.71
Serpis	-5.8	PF 3	905.94	159	164.18	163.39	165.11	0.006876	4.79	0.71
Serpis	-5.8	PF 4	905.94	159	164.18	163.39	165.11	0.006876	4.79	0.71
Serpis	-5.8	PF 5	905.94	159	164.18	163.39	165.11	0.006864	4.79	0.71
Serpis	-5.8	PF 6	905.94	159	164.29	163.39	165.16	0.006307	4.66	0.68
Serpis	-5.8	PF 7	905.94	159	165	163.39	165.61	0.003744	3.94	0.54
Serpis	-5.8	PF 8	905.94	159	166.44	163.39	166.78	0.001596	3	0.36
Serpis	-14.64*	T1000	905.94	159	164.12	163.32	165.03	0.006717	4.73	0.7
Serpis	-14.64*	PF 2	905.94	159	164.12	163.32	165.03	0.006717	4.73	0.7
Serpis	-14.64*	PF 3	905.94	159	164.12	163.32	165.03	0.006717	4.73	0.7
Serpis	-14.64*	PF 4	905.94	159	164.12	163.32	165.03	0.006717	4.73	0.7
Serpis	-14.64*	PF 5	905.94	159	164.13	163.32	165.03	0.006705	4.73	0.7
Serpis	-14.64*	PF 6	905.94	159	164.24	163.32	165.09	0.006135	4.59	0.67
Serpis	-14.64*	PF 7	905.94	159	164.98	163.32	165.57	0.003546	3.85	0.52
Serpis	-14.64*	PF 8	905.94	159	166.44	163.32	166.76	0.001486	2.91	0.35
Serpis	-23.48*	T1000	905.94	159	164.07	163.23	164.96	0.006571	4.67	0.69
Serpis	-23.48*	PF 2	905.94	159	164.07	163.23	164.96	0.006571	4.67	0.69
Serpis	-23.48*	PF 3	905.94	159	164.07	163.23	164.96	0.006571	4.67	0.69
Serpis	-23.48*	PF 4	905.94	159	164.07	163.23	164.96	0.006571	4.67	0.69
Serpis	-23.48*	PF 5	905.94	159	164.07	163.23	164.96	0.006558	4.67	0.69
Serpis	-23.48*	PF 6	905.94	159	164.19	163.23	165.02	0.005956	4.53	0.66

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-23.48*	PF 7	905.94	159	164.96	163.23	165.52	0.003399	3.78	0.51
Serpis	-23.48*	PF 8	905.94	159	166.43	163.23	166.74	0.00142	2.86	0.34
Serpis	-32.32*	T1000	905.94	159	164.02	163.13	164.89	0.006396	4.61	0.68
Serpis	-32.32*	PF 2	905.94	159	164.02	163.13	164.89	0.006396	4.61	0.68
Serpis	-32.32*	PF 3	905.94	159	164.02	163.13	164.89	0.006396	4.61	0.68
Serpis	-32.32*	PF 4	905.94	159	164.02	163.13	164.89	0.006396	4.61	0.68
Serpis	-32.32*	PF 5	905.94	159	164.02	163.13	164.89	0.006382	4.61	0.68
Serpis	-32.32*	PF 6	905.94	159	164.15	163.13	164.96	0.005777	4.46	0.65
Serpis	-32.32*	PF 7	905.94	159	164.94	163.13	165.49	0.003258	3.71	0.5
Serpis	-32.32*	PF 8	905.94	159	166.43	163.13	166.72	0.001348	2.8	0.34
Serpis	-41.16*	T1000	905.94	159	163.97	163.08	164.81	0.00621	4.54	0.67
Serpis	-41.16*	PF 2	905.94	159	163.97	163.08	164.81	0.00621	4.54	0.67
Serpis	-41.16*	PF 3	905.94	159	163.97	163.08	164.81	0.00621	4.54	0.67
Serpis	-41.16*	PF 4	905.94	159	163.97	163.08	164.81	0.00621	4.54	0.67
Serpis	-41.16*	PF 5	905.94	159	163.98	163.08	164.82	0.006196	4.54	0.67
Serpis	-41.16*	PF 6	905.94	159	164.11	163.08	164.89	0.005581	4.39	0.64
Serpis	-41.16*	PF 7	905.94	159	164.92	163.08	165.45	0.003105	3.64	0.49
Serpis	-41.16*	PF 8	905.94	159	166.42	163.08	166.71	0.001279	2.73	0.33
Serpis	-50	T1000	905.94	159	163.93	163.03	164.74	0.00603	4.47	0.66
Serpis	-50	PF 2	905.94	159	163.93	163.03	164.74	0.00603	4.47	0.66
Serpis	-50	PF 3	905.94	159	163.93	163.03	164.74	0.00603	4.47	0.66
Serpis	-50	PF 4	905.94	159	163.93	163.03	164.74	0.00603	4.47	0.66
Serpis	-50	PF 5	905.94	159	163.93	163.03	164.75	0.006016	4.47	0.66
Serpis	-50	PF 6	905.94	159	164.07	163.03	164.83	0.005391	4.32	0.63

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-50	PF 7	905.94	159	164.9	163.03	165.41	0.002974	3.57	0.48
Serpis	-50	PF 8	905.94	159	166.41	163.03	166.69	0.001227	2.69	0.32
Serpis	-60.*	T1000	905.94	158.87	163.9	162.84	164.67	0.005546	4.38	0.64
Serpis	-60.*	PF 2	905.94	158.87	163.9	162.84	164.67	0.005546	4.38	0.64
Serpis	-60.*	PF 3	905.94	158.87	163.9	162.84	164.67	0.005546	4.38	0.64
Serpis	-60.*	PF 4	905.94	158.87	163.9	162.84	164.67	0.005546	4.38	0.64
Serpis	-60.*	PF 5	905.94	158.87	163.9	162.84	164.67	0.005533	4.38	0.64
Serpis	-60.*	PF 6	905.94	158.87	164.04	162.84	164.76	0.004956	4.23	0.61
Serpis	-60.*	PF 7	905.94	158.87	164.89	162.84	165.37	0.002749	3.5	0.47
Serpis	-60.*	PF 8	905.94	158.87	166.41	162.84	166.67	0.001154	2.65	0.31
Serpis	-70.*	T1000	905.94	158.75	163.87	162.69	164.6	0.005061	4.27	0.62
Serpis	-70.*	PF 2	905.94	158.75	163.87	162.69	164.6	0.005061	4.27	0.62
Serpis	-70.*	PF 3	905.94	158.75	163.87	162.69	164.6	0.005061	4.27	0.62
Serpis	-70.*	PF 4	905.94	158.75	163.87	162.69	164.6	0.005061	4.27	0.62
Serpis	-70.*	PF 5	905.94	158.75	163.88	162.69	164.6	0.005049	4.27	0.61
Serpis	-70.*	PF 6	905.94	158.75	164.02	162.69	164.7	0.004522	4.12	0.58
Serpis	-70.*	PF 7	905.94	158.75	164.88	162.69	165.34	0.002535	3.43	0.45
Serpis	-70.*	PF 8	905.94	158.75	166.4	162.69	166.66	0.001082	2.61	0.3
Serpis	-80.*	T1000	905.94	158.62	163.85	162.54	164.54	0.004621	4.17	0.59
Serpis	-80.*	PF 2	905.94	158.62	163.85	162.54	164.54	0.004621	4.17	0.59
Serpis	-80.*	PF 3	905.94	158.62	163.85	162.54	164.54	0.004621	4.17	0.59
Serpis	-80.*	PF 4	905.94	158.62	163.85	162.54	164.54	0.004621	4.17	0.59
Serpis	-80.*	PF 5	905.94	158.62	163.86	162.54	164.54	0.00461	4.17	0.59
Serpis	-80.*	PF 6	905.94	158.62	164.01	162.54	164.64	0.004127	4.02	0.56

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-80.*	PF 7	905.94	158.62	164.87	162.54	165.3	0.002348	3.36	0.43
Serpis	-80.*	PF 8	905.94	158.62	166.4	162.54	166.65	0.001013	2.56	0.3
Serpis	-90	T1000	905.94	158.5	163.84	162.39	164.48	0.00422	4.07	0.57
Serpis	-90	PF 2	905.94	158.5	163.84	162.39	164.48	0.00422	4.07	0.57
Serpis	-90	PF 3	905.94	158.5	163.84	162.39	164.48	0.00422	4.07	0.57
Serpis	-90	PF 4	905.94	158.5	163.84	162.39	164.48	0.00422	4.07	0.57
Serpis	-90	PF 5	905.94	158.5	163.84	162.39	164.48	0.00421	4.06	0.57
Serpis	-90	PF 6	905.94	158.5	163.99	162.39	164.59	0.003778	3.92	0.54
Serpis	-90	PF 7	905.94	158.5	164.86	162.39	165.27	0.002165	3.28	0.42
Serpis	-90	PF 8	905.94	158.5	166.4	162.39	166.63	0.000949	2.52	0.29
Serpis	-100.*	T1000	905.94	158	163.83	162.11	164.43	0.003517	3.91	0.53
Serpis	-100.*	PF 2	905.94	158	163.83	162.11	164.43	0.003517	3.91	0.53
Serpis	-100.*	PF 3	905.94	158	163.83	162.11	164.43	0.003517	3.91	0.53
Serpis	-100.*	PF 4	905.94	158	163.83	162.11	164.43	0.003517	3.91	0.53
Serpis	-100.*	PF 5	905.94	158	163.83	162.11	164.43	0.00351	3.91	0.52
Serpis	-100.*	PF 6	905.94	158	163.98	162.11	164.54	0.003176	3.79	0.5
Serpis	-100.*	PF 7	905.94	158	164.86	162.11	165.25	0.001871	3.19	0.39
Serpis	-100.*	PF 8	905.94	158	166.4	162.11	166.62	0.000845	2.46	0.27
Serpis	-110.*	T1000	905.94	157.5	163.82	161.91	164.38	0.002981	3.78	0.49
Serpis	-110.*	PF 2	905.94	157.5	163.82	161.91	164.38	0.002981	3.78	0.49
Serpis	-110.*	PF 3	905.94	157.5	163.82	161.91	164.38	0.002981	3.78	0.49
Serpis	-110.*	PF 4	905.94	157.5	163.82	161.91	164.38	0.002981	3.78	0.49
Serpis	-110.*	PF 5	905.94	157.5	163.82	161.91	164.38	0.002975	3.78	0.49
Serpis	-110.*	PF 6	905.94	157.5	163.97	161.91	164.5	0.0027	3.66	0.47

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-110.*	PF 7	905.94	157.5	164.85	161.91	165.22	0.001628	3.1	0.37
Serpis	-110.*	PF 8	905.94	157.5	166.39	161.91	166.61	0.000763	2.42	0.26
Serpis	-120.*	T1000	905.94	157	163.82	161.66	164.34	0.002524	3.63	0.45
Serpis	-120.*	PF 2	905.94	157	163.82	161.66	164.34	0.002524	3.63	0.45
Serpis	-120.*	PF 3	905.94	157	163.82	161.66	164.34	0.002524	3.63	0.45
Serpis	-120.*	PF 4	905.94	157	163.82	161.66	164.34	0.002524	3.63	0.45
Serpis	-120.*	PF 5	905.94	157	163.82	161.66	164.34	0.002519	3.63	0.45
Serpis	-120.*	PF 6	905.94	157	163.97	161.66	164.46	0.002294	3.52	0.43
Serpis	-120.*	PF 7	905.94	157	164.85	161.66	165.2	0.001429	3.02	0.35
Serpis	-120.*	PF 8	905.94	157	166.39	161.66	166.6	0.00069	2.37	0.25
Serpis	-130	T1000	905.94	156.5	163.82	161.39	164.3	0.002165	3.49	0.42
Serpis	-130	PF 2	905.94	156.5	163.82	161.39	164.3	0.002165	3.49	0.42
Serpis	-130	PF 3	905.94	156.5	163.82	161.39	164.3	0.002165	3.49	0.42
Serpis	-130	PF 4	905.94	156.5	163.82	161.39	164.3	0.002165	3.49	0.42
Serpis	-130	PF 5	905.94	156.5	163.82	161.39	164.3	0.002161	3.49	0.42
Serpis	-130	PF 6	905.94	156.5	163.98	161.39	164.43	0.001977	3.39	0.4
Serpis	-130	PF 7	905.94	156.5	164.85	161.39	165.18	0.001258	2.92	0.33
Serpis	-130	PF 8	905.94	156.5	166.39	161.39	166.59	0.000626	2.31	0.24
Serpis	-140.*	T1000	905.94	156.5	163.72	161.4	164.27	0.002402	3.67	0.44
Serpis	-140.*	PF 2	905.94	156.5	163.72	161.4	164.27	0.002402	3.67	0.44
Serpis	-140.*	PF 3	905.94	156.5	163.72	161.4	164.27	0.002402	3.67	0.44
Serpis	-140.*	PF 4	905.94	156.5	163.72	161.4	164.27	0.002402	3.67	0.44
Serpis	-140.*	PF 5	905.94	156.5	163.73	161.4	164.27	0.002398	3.66	0.44
Serpis	-140.*	PF 6	905.94	156.5	163.89	161.4	164.4	0.002196	3.56	0.43

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-140.*	PF 7	905.94	156.5	164.8	161.4	165.16	0.001349	3.03	0.34
Serpis	-140.*	PF 8	905.94	156.5	166.37	161.4	166.58	0.000661	2.39	0.25
Serpis	-150.*	T1000	905.94	156.5	163.63	161.4	164.24	0.002626	3.81	0.46
Serpis	-150.*	PF 2	905.94	156.5	163.63	161.4	164.24	0.002626	3.81	0.46
Serpis	-150.*	PF 3	905.94	156.5	163.63	161.4	164.24	0.002626	3.81	0.46
Serpis	-150.*	PF 4	905.94	156.5	163.63	161.4	164.24	0.002626	3.81	0.46
Serpis	-150.*	PF 5	905.94	156.5	163.64	161.4	164.24	0.002621	3.81	0.46
Serpis	-150.*	PF 6	905.94	156.5	163.8	161.4	164.37	0.002405	3.71	0.45
Serpis	-150.*	PF 7	905.94	156.5	164.76	161.4	165.14	0.001436	3.12	0.35
Serpis	-150.*	PF 8	905.94	156.5	166.35	161.4	166.57	0.000692	2.45	0.25
Serpis	-160.*	T1000	905.94	156.5	163.56	161.35	164.2	0.002812	3.93	0.48
Serpis	-160.*	PF 2	905.94	156.5	163.56	161.35	164.2	0.002812	3.93	0.48
Serpis	-160.*	PF 3	905.94	156.5	163.56	161.35	164.2	0.002812	3.93	0.48
Serpis	-160.*	PF 4	905.94	156.5	163.56	161.35	164.2	0.002812	3.93	0.48
Serpis	-160.*	PF 5	905.94	156.5	163.56	161.35	164.2	0.002806	3.92	0.48
Serpis	-160.*	PF 6	905.94	156.5	163.73	161.35	164.34	0.002561	3.81	0.46
Serpis	-160.*	PF 7	905.94	156.5	164.71	161.35	165.12	0.001519	3.2	0.36
Serpis	-160.*	PF 8	905.94	156.5	166.33	161.35	166.56	0.000711	2.48	0.26
Serpis	-170.*	T1000	905.94	156.5	163.48	161.38	164.17	0.003006	4.03	0.5
Serpis	-170.*	PF 2	905.94	156.5	163.48	161.38	164.17	0.003006	4.03	0.5
Serpis	-170.*	PF 3	905.94	156.5	163.48	161.38	164.17	0.003006	4.03	0.5
Serpis	-170.*	PF 4	905.94	156.5	163.48	161.38	164.17	0.003006	4.03	0.5
Serpis	-170.*	PF 5	905.94	156.5	163.48	161.38	164.17	0.002999	4.03	0.5
Serpis	-170.*	PF 6	905.94	156.5	163.67	161.38	164.31	0.002679	3.88	0.47

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-170.*	PF 7	905.94	156.5	164.68	161.38	165.11	0.001553	3.23	0.37
Serpis	-170.*	PF 8	905.94	156.5	166.32	161.38	166.56	0.000716	2.49	0.26
Serpis	-180.*	T1000	905.94	156.5	163.42	161.38	164.13	0.003137	4.09	0.51
Serpis	-180.*	PF 2	905.94	156.5	163.42	161.38	164.13	0.003137	4.09	0.51
Serpis	-180.*	PF 3	905.94	156.5	163.42	161.38	164.13	0.003137	4.09	0.51
Serpis	-180.*	PF 4	905.94	156.5	163.42	161.38	164.13	0.003137	4.09	0.51
Serpis	-180.*	PF 5	905.94	156.5	163.42	161.38	164.14	0.003129	4.09	0.51
Serpis	-180.*	PF 6	905.94	156.5	163.62	161.38	164.28	0.002774	3.93	0.48
Serpis	-180.*	PF 7	905.94	156.5	164.66	161.38	165.09	0.001583	3.26	0.37
Serpis	-180.*	PF 8	905.94	156.5	166.31	161.38	166.55	0.000716	2.49	0.26
Serpis	-190.*	T1000	905.94	156.5	163.35	161.36	164.09	0.003329	4.18	0.52
Serpis	-190.*	PF 2	905.94	156.5	163.35	161.36	164.09	0.003329	4.18	0.52
Serpis	-190.*	PF 3	905.94	156.5	163.35	161.36	164.09	0.003329	4.18	0.52
Serpis	-190.*	PF 4	905.94	156.5	163.35	161.36	164.09	0.003329	4.18	0.52
Serpis	-190.*	PF 5	905.94	156.5	163.35	161.36	164.1	0.003321	4.18	0.52
Serpis	-190.*	PF 6	905.94	156.5	163.57	161.36	164.24	0.002901	3.99	0.49
Serpis	-190.*	PF 7	905.94	156.5	164.64	161.36	165.07	0.001596	3.27	0.37
Serpis	-190.*	PF 8	905.94	156.5	166.31	161.36	166.54	0.000718	2.49	0.26
Serpis	-200	T1000	905.94	156.5	163.3	161.36	164.06	0.003447	4.23	0.53
Serpis	-200	PF 2	905.94	156.5	163.3	161.36	164.06	0.003447	4.23	0.53
Serpis	-200	PF 3	905.94	156.5	163.3	161.36	164.06	0.003447	4.23	0.53
Serpis	-200	PF 4	905.94	156.5	163.3	161.36	164.06	0.003447	4.23	0.53
Serpis	-200	PF 5	905.94	156.5	163.3	161.36	164.06	0.003435	4.22	0.53
Serpis	-200	PF 6	905.94	156.5	163.53	161.36	164.21	0.002971	4.02	0.49

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-200	PF 7	905.94	156.5	164.63	161.36	165.06	0.001596	3.26	0.37
Serpis	-200	PF 8	905.94	156.5	166.3	161.36	166.53	0.00072	2.49	0.26
Serpis	-210.*	T1000	905.94	156.5	163.25	161.31	164.02	0.00353	4.28	0.54
Serpis	-210.*	PF 2	905.94	156.5	163.25	161.31	164.02	0.00353	4.28	0.54
Serpis	-210.*	PF 3	905.94	156.5	163.25	161.31	164.02	0.00353	4.28	0.54
Serpis	-210.*	PF 4	905.94	156.5	163.25	161.31	164.02	0.00353	4.28	0.54
Serpis	-210.*	PF 5	905.94	156.5	163.25	161.31	164.03	0.003518	4.27	0.54
Serpis	-210.*	PF 6	905.94	156.5	163.49	161.31	164.18	0.003022	4.06	0.5
Serpis	-210.*	PF 7	905.94	156.5	164.61	161.31	165.04	0.001616	3.29	0.37
Serpis	-210.*	PF 8	905.94	156.5	166.29	161.31	166.53	0.000734	2.52	0.26
Serpis	-220.*	T1000	905.94	156.5	163.21	161.27	163.99	0.003574	4.31	0.54
Serpis	-220.*	PF 2	905.94	156.5	163.21	161.27	163.99	0.003574	4.31	0.54
Serpis	-220.*	PF 3	905.94	156.5	163.21	161.27	163.99	0.003574	4.31	0.54
Serpis	-220.*	PF 4	905.94	156.5	163.21	161.27	163.99	0.003574	4.31	0.54
Serpis	-220.*	PF 5	905.94	156.5	163.21	161.27	163.99	0.003562	4.3	0.54
Serpis	-220.*	PF 6	905.94	156.5	163.46	161.27	164.15	0.003051	4.09	0.5
Serpis	-220.*	PF 7	905.94	156.5	164.59	161.27	165.02	0.001638	3.32	0.38
Serpis	-220.*	PF 8	905.94	156.5	166.27	161.27	166.52	0.000749	2.55	0.26
Serpis	-230.*	T1000	905.94	156.5	163.17	161.22	163.95	0.0036	4.33	0.54
Serpis	-230.*	PF 2	905.94	156.5	163.17	161.22	163.95	0.0036	4.33	0.54
Serpis	-230.*	PF 3	905.94	156.5	163.17	161.22	163.95	0.0036	4.33	0.54
Serpis	-230.*	PF 4	905.94	156.5	163.17	161.22	163.95	0.0036	4.33	0.54
Serpis	-230.*	PF 5	905.94	156.5	163.18	161.22	163.95	0.003588	4.33	0.54
Serpis	-230.*	PF 6	905.94	156.5	163.43	161.22	164.12	0.003068	4.1	0.5

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-230.*	PF 7	905.94	156.5	164.57	161.22	165.01	0.001656	3.35	0.38
Serpis	-230.*	PF 8	905.94	156.5	166.26	161.22	166.51	0.00076	2.58	0.27
Serpis	-240	T1000	905.94	156.5	163.13	161.18	163.91	0.003652	4.36	0.55
Serpis	-240	PF 2	905.94	156.5	163.13	161.18	163.91	0.003652	4.36	0.55
Serpis	-240	PF 3	905.94	156.5	163.13	161.18	163.91	0.003652	4.36	0.55
Serpis	-240	PF 4	905.94	156.5	163.13	161.18	163.91	0.003652	4.36	0.55
Serpis	-240	PF 5	905.94	156.5	163.14	161.18	163.92	0.003639	4.36	0.55
Serpis	-240	PF 6	905.94	156.5	163.4	161.18	164.09	0.003105	4.13	0.51
Serpis	-240	PF 7	905.94	156.5	164.54	161.18	164.99	0.00169	3.38	0.38
Serpis	-240	PF 8	905.94	156.5	166.25	161.18	166.5	0.000777	2.62	0.27
Serpis	-250.*	T1000	905.94	156.42	163.02	160.9	163.87	0.004097	4.58	0.58
Serpis	-250.*	PF 2	905.94	156.42	163.02	160.9	163.87	0.004097	4.58	0.58
Serpis	-250.*	PF 3	905.94	156.42	163.02	160.9	163.87	0.004097	4.58	0.58
Serpis	-250.*	PF 4	905.94	156.42	163.02	160.9	163.87	0.004097	4.58	0.58
Serpis	-250.*	PF 5	905.94	156.42	163.02	160.9	163.87	0.004081	4.58	0.58
Serpis	-250.*	PF 6	905.94	156.42	163.31	160.9	164.05	0.003435	4.32	0.53
Serpis	-250.*	PF 7	905.94	156.42	164.5	160.9	164.97	0.001809	3.5	0.4
Serpis	-250.*	PF 8	905.94	156.42	166.22	160.9	166.49	0.00083	2.71	0.28
Serpis	-260.*	T1000	905.94	156.35	162.88	161.48	163.81	0.004669	4.84	0.62
Serpis	-260.*	PF 2	905.94	156.35	162.88	161.48	163.81	0.004669	4.84	0.62
Serpis	-260.*	PF 3	905.94	156.35	162.88	161.48	163.81	0.004669	4.84	0.62
Serpis	-260.*	PF 4	905.94	156.35	162.88	161.48	163.81	0.004669	4.84	0.62
Serpis	-260.*	PF 5	905.94	156.35	162.89	161.48	163.81	0.004647	4.84	0.62
Serpis	-260.*	PF 6	905.94	156.35	163.2	161.48	164.01	0.003823	4.53	0.56

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-260.*	PF 7	905.94	156.35	164.45	161.48	164.95	0.001942	3.63	0.41
Serpis	-260.*	PF 8	905.94	156.35	166.2	161.48	166.48	0.000885	2.8	0.29
Serpis	-270.*	T1000	905.94	156.27	162.71	161.53	163.74	0.005422	5.15	0.66
Serpis	-270.*	PF 2	905.94	156.27	162.71	161.53	163.74	0.005422	5.15	0.66
Serpis	-270.*	PF 3	905.94	156.27	162.71	161.53	163.74	0.005422	5.15	0.66
Serpis	-270.*	PF 4	905.94	156.27	162.71	161.53	163.74	0.005422	5.15	0.66
Serpis	-270.*	PF 5	905.94	156.27	162.72	161.53	163.75	0.00539	5.14	0.66
Serpis	-270.*	PF 6	905.94	156.27	163.09	161.53	163.96	0.004284	4.76	0.59
Serpis	-270.*	PF 7	905.94	156.27	164.4	161.53	164.92	0.002092	3.76	0.43
Serpis	-270.*	PF 8	905.94	156.27	166.18	161.53	166.47	0.000944	2.89	0.3
Serpis	-280.*	T1000	905.94	156.2	162.51	161.56	163.66	0.006383	5.5	0.72
Serpis	-280.*	PF 2	905.94	156.2	162.51	161.56	163.66	0.006383	5.5	0.72
Serpis	-280.*	PF 3	905.94	156.2	162.51	161.56	163.66	0.006383	5.5	0.72
Serpis	-280.*	PF 4	905.94	156.2	162.51	161.56	163.66	0.006383	5.5	0.72
Serpis	-280.*	PF 5	905.94	156.2	162.52	161.56	163.67	0.006331	5.49	0.71
Serpis	-280.*	PF 6	905.94	156.2	162.96	161.56	163.9	0.004805	5.01	0.63
Serpis	-280.*	PF 7	905.94	156.2	164.35	161.56	164.9	0.002261	3.91	0.45
Serpis	-280.*	PF 8	905.94	156.2	166.15	161.56	166.46	0.001003	2.99	0.31
Serpis	-290	T1000	905.94	156.12	162.31	161.53	163.58	0.007445	5.85	0.77
Serpis	-290	PF 2	905.94	156.12	162.31	161.53	163.58	0.007445	5.85	0.77
Serpis	-290	PF 3	905.94	156.12	162.31	161.53	163.58	0.007445	5.85	0.77
Serpis	-290	PF 4	905.94	156.12	162.31	161.53	163.58	0.007444	5.85	0.77
Serpis	-290	PF 5	905.94	156.12	162.32	161.53	163.58	0.007396	5.84	0.77
Serpis	-290	PF 6	905.94	156.12	162.84	161.53	163.84	0.005315	5.24	0.66

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-290	PF 7	905.94	156.12	164.31	161.53	164.87	0.002372	4.02	0.46
Serpis	-290	PF 8	905.94	156.12	166.14	161.53	166.45	0.00104	3.06	0.31
Serpis	-300.*	T1000	905.94	156.07	162.24	161.46	163.5	0.007291	5.82	0.76
Serpis	-300.*	PF 2	905.94	156.07	162.24	161.46	163.5	0.007291	5.82	0.76
Serpis	-300.*	PF 3	905.94	156.07	162.24	161.46	163.5	0.007291	5.82	0.76
Serpis	-300.*	PF 4	905.94	156.07	162.24	161.46	163.5	0.007291	5.82	0.76
Serpis	-300.*	PF 5	905.94	156.07	162.25	161.46	163.5	0.00724	5.81	0.76
Serpis	-300.*	PF 6	905.94	156.07	162.81	161.46	163.78	0.005126	5.19	0.65
Serpis	-300.*	PF 7	905.94	156.07	164.3	161.46	164.84	0.002277	3.97	0.45
Serpis	-300.*	PF 8	905.94	156.07	166.14	161.46	166.43	0.001004	3.03	0.31
Serpis	-310.*	T1000	905.94	156.03	162.18	161.38	163.42	0.007175	5.8	0.76
Serpis	-310.*	PF 2	905.94	156.03	162.18	161.38	163.42	0.007175	5.8	0.76
Serpis	-310.*	PF 3	905.94	156.03	162.18	161.38	163.42	0.007175	5.8	0.76
Serpis	-310.*	PF 4	905.94	156.03	162.18	161.38	163.42	0.007174	5.8	0.76
Serpis	-310.*	PF 5	905.94	156.03	162.19	161.38	163.43	0.007121	5.79	0.76
Serpis	-310.*	PF 6	905.94	156.03	162.77	161.38	163.72	0.004966	5.14	0.64
Serpis	-310.*	PF 7	905.94	156.03	164.29	161.38	164.82	0.002194	3.93	0.44
Serpis	-310.*	PF 8	905.94	156.03	166.13	161.38	166.42	0.000973	3	0.3
Serpis	-320.*	T1000	905.94	155.98	162.11	161.31	163.35	0.007091	5.79	0.75
Serpis	-320.*	PF 2	905.94	155.98	162.11	161.31	163.35	0.007091	5.79	0.75
Serpis	-320.*	PF 3	905.94	155.98	162.11	161.31	163.35	0.007091	5.79	0.75
Serpis	-320.*	PF 4	905.94	155.98	162.11	161.31	163.35	0.00709	5.79	0.75
Serpis	-320.*	PF 5	905.94	155.98	162.12	161.31	163.35	0.007035	5.77	0.75
Serpis	-320.*	PF 6	905.94	155.98	162.73	161.31	163.67	0.004828	5.1	0.63

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-320.*	PF 7	905.94	155.98	164.27	161.31	164.79	0.002121	3.89	0.43
Serpis	-320.*	PF 8	905.94	155.98	166.12	161.31	166.41	0.000945	2.97	0.3
Serpis	-330.*	T1000	905.94	155.94	162.05	161.24	163.27	0.007044	5.78	0.75
Serpis	-330.*	PF 2	905.94	155.94	162.05	161.24	163.27	0.007044	5.78	0.75
Serpis	-330.*	PF 3	905.94	155.94	162.05	161.24	163.27	0.007044	5.78	0.75
Serpis	-330.*	PF 4	905.94	155.94	162.05	161.24	163.27	0.007044	5.78	0.75
Serpis	-330.*	PF 5	905.94	155.94	162.06	161.24	163.28	0.006985	5.76	0.75
Serpis	-330.*	PF 6	905.94	155.94	162.69	161.24	163.61	0.004714	5.06	0.63
Serpis	-330.*	PF 7	905.94	155.94	164.26	161.24	164.77	0.002058	3.85	0.43
Serpis	-330.*	PF 8	905.94	155.94	166.12	161.24	166.4	0.00092	2.95	0.3
Serpis	-340.*	T1000	905.94	155.89	161.98	161.17	163.2	0.007037	5.78	0.75
Serpis	-340.*	PF 2	905.94	155.89	161.98	161.17	163.2	0.007037	5.78	0.75
Serpis	-340.*	PF 3	905.94	155.89	161.98	161.17	163.2	0.007037	5.78	0.75
Serpis	-340.*	PF 4	905.94	155.89	161.98	161.17	163.2	0.007037	5.78	0.75
Serpis	-340.*	PF 5	905.94	155.89	161.99	161.17	163.21	0.006974	5.76	0.75
Serpis	-340.*	PF 6	905.94	155.89	162.66	161.17	163.56	0.004622	5.03	0.62
Serpis	-340.*	PF 7	905.94	155.89	164.25	161.17	164.74	0.002004	3.82	0.42
Serpis	-340.*	PF 8	905.94	155.89	166.11	161.17	166.39	0.000899	2.93	0.29
Serpis	-350.*	T1000	905.94	155.84	161.91	161.11	163.13	0.007068	5.79	0.75
Serpis	-350.*	PF 2	905.94	155.84	161.91	161.11	163.13	0.007068	5.79	0.75
Serpis	-350.*	PF 3	905.94	155.84	161.91	161.11	163.13	0.007068	5.79	0.75
Serpis	-350.*	PF 4	905.94	155.84	161.91	161.11	163.13	0.007068	5.79	0.75
Serpis	-350.*	PF 5	905.94	155.84	161.92	161.11	163.13	0.007	5.77	0.75
Serpis	-350.*	PF 6	905.94	155.84	162.62	161.11	163.51	0.00455	5.01	0.62

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-350.*	PF 7	905.94	155.84	164.23	161.11	164.72	0.001957	3.79	0.42
Serpis	-350.*	PF 8	905.94	155.84	166.11	161.11	166.38	0.000879	2.91	0.29
Serpis	-360.*	T1000	905.94	155.8	161.84	161.04	163.06	0.007143	5.8	0.76
Serpis	-360.*	PF 2	905.94	155.8	161.84	161.04	163.06	0.007143	5.8	0.76
Serpis	-360.*	PF 3	905.94	155.8	161.84	161.04	163.06	0.007143	5.8	0.76
Serpis	-360.*	PF 4	905.94	155.8	161.84	161.04	163.06	0.007142	5.8	0.76
Serpis	-360.*	PF 5	905.94	155.8	161.85	161.04	163.06	0.007068	5.78	0.75
Serpis	-360.*	PF 6	905.94	155.8	162.59	161.04	163.46	0.004498	4.98	0.61
Serpis	-360.*	PF 7	905.94	155.8	164.22	161.04	164.69	0.001917	3.76	0.41
Serpis	-360.*	PF 8	905.94	155.8	166.1	161.04	166.37	0.000863	2.89	0.29
Serpis	-370	T1000	905.94	155.75	161.76	160.99	162.98	0.007293	5.84	0.76
Serpis	-370	PF 2	905.94	155.75	161.76	160.99	162.98	0.007293	5.84	0.76
Serpis	-370	PF 3	905.94	155.75	161.76	160.99	162.98	0.007293	5.84	0.76
Serpis	-370	PF 4	905.94	155.75	161.76	160.99	162.98	0.007293	5.84	0.76
Serpis	-370	PF 5	905.94	155.75	161.77	160.99	162.99	0.007207	5.81	0.76
Serpis	-370	PF 6	905.94	155.75	162.55	160.99	163.41	0.004466	4.96	0.61
Serpis	-370	PF 7	905.94	155.75	164.21	160.99	164.67	0.001885	3.74	0.41
Serpis	-370	PF 8	905.94	155.75	166.1	160.99	166.36	0.000849	2.87	0.29
Serpis	-380.*	T1000	905.94	155.63	161.39	160.91	162.87	0.009	6.31	0.84
Serpis	-380.*	PF 2	905.94	155.63	161.39	160.91	162.87	0.009	6.31	0.84
Serpis	-380.*	PF 3	905.94	155.63	161.39	160.91	162.87	0.009	6.31	0.84
Serpis	-380.*	PF 4	905.94	155.63	161.39	160.91	162.87	0.008999	6.31	0.84
Serpis	-380.*	PF 5	905.94	155.63	161.43	160.91	162.88	0.008745	6.25	0.83
Serpis	-380.*	PF 6	905.94	155.63	162.45	160.91	163.36	0.004627	5.06	0.62

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-380.*	PF 7	905.94	155.63	164.17	160.91	164.65	0.00189	3.77	0.41
Serpis	-380.*	PF 8	905.94	155.63	166.08	160.91	166.35	0.000847	2.89	0.29
Serpis	-390.*	T1000	905.94	155.52	161.09	160.8	162.74	0.010403	6.63	0.9
Serpis	-390.*	PF 2	905.94	155.52	161.09	160.8	162.74	0.010403	6.63	0.9
Serpis	-390.*	PF 3	905.94	155.52	161.09	160.8	162.74	0.010403	6.63	0.9
Serpis	-390.*	PF 4	905.94	155.52	161.09	160.8	162.74	0.010397	6.63	0.9
Serpis	-390.*	PF 5	905.94	155.52	161.21	160.8	162.77	0.009553	6.45	0.87
Serpis	-390.*	PF 6	905.94	155.52	162.39	160.8	163.31	0.004599	5.08	0.62
Serpis	-390.*	PF 7	905.94	155.52	164.15	160.8	164.63	0.001862	3.77	0.41
Serpis	-390.*	PF 8	905.94	155.52	166.07	160.8	166.34	0.000835	2.89	0.28
Serpis	-400.*	T1000	905.94	155.4	160.96	160.7	162.64	0.010619	6.68	0.91
Serpis	-400.*	PF 2	905.94	155.4	160.96	160.7	162.64	0.010619	6.68	0.91
Serpis	-400.*	PF 3	905.94	155.4	160.96	160.7	162.64	0.010619	6.68	0.91
Serpis	-400.*	PF 4	905.94	155.4	160.97	160.7	162.64	0.010554	6.67	0.91
Serpis	-400.*	PF 5	905.94	155.4	161.12	160.7	162.67	0.009488	6.44	0.86
Serpis	-400.*	PF 6	905.94	155.4	162.36	160.7	163.26	0.004413	5.01	0.61
Serpis	-400.*	PF 7	905.94	155.4	164.14	160.7	164.61	0.001801	3.73	0.4
Serpis	-400.*	PF 8	905.94	155.4	166.07	160.7	166.33	0.000811	2.86	0.28
Serpis	-410.*	T1000	905.94	155.29	160.86	160.59	162.53	0.010597	6.67	0.91
Serpis	-410.*	PF 2	905.94	155.29	160.86	160.59	162.53	0.010597	6.67	0.91
Serpis	-410.*	PF 3	905.94	155.29	160.86	160.59	162.53	0.010597	6.67	0.91
Serpis	-410.*	PF 4	905.94	155.29	160.87	160.59	162.53	0.010522	6.65	0.91
Serpis	-410.*	PF 5	905.94	155.29	161.05	160.59	162.57	0.009298	6.39	0.86
Serpis	-410.*	PF 6	905.94	155.29	162.34	160.59	163.2	0.004198	4.92	0.6

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-410.*	PF 7	905.94	155.29	164.14	160.59	164.59	0.001712	3.66	0.39
Serpis	-410.*	PF 8	905.94	155.29	166.07	160.59	166.32	0.000777	2.82	0.28
Serpis	-420.*	T1000	905.94	155.17	160.77	160.5	162.41	0.010452	6.62	0.9
Serpis	-420.*	PF 2	905.94	155.17	160.77	160.5	162.41	0.010452	6.62	0.9
Serpis	-420.*	PF 3	905.94	155.17	160.78	160.5	162.41	0.010451	6.62	0.9
Serpis	-420.*	PF 4	905.94	155.17	160.79	160.5	162.41	0.010365	6.61	0.9
Serpis	-420.*	PF 5	905.94	155.17	160.99	160.5	162.46	0.00902	6.31	0.84
Serpis	-420.*	PF 6	905.94	155.17	162.33	160.5	163.14	0.003963	4.82	0.58
Serpis	-420.*	PF 7	905.94	155.17	164.14	160.5	164.56	0.001607	3.57	0.38
Serpis	-420.*	PF 8	905.94	155.17	166.07	160.5	166.31	0.000736	2.76	0.27
Serpis	-430.*	T1000	905.94	155.06	160.7	160.4	162.29	0.010214	6.55	0.89
Serpis	-430.*	PF 2	905.94	155.06	160.7	160.4	162.29	0.010214	6.55	0.89
Serpis	-430.*	PF 3	905.94	155.06	160.7	160.4	162.29	0.010214	6.55	0.89
Serpis	-430.*	PF 4	905.94	155.06	160.72	160.4	162.29	0.010117	6.53	0.89
Serpis	-430.*	PF 5	905.94	155.06	160.94	160.4	162.35	0.008672	6.21	0.83
Serpis	-430.*	PF 6	905.94	155.06	162.32	160.4	163.09	0.003716	4.7	0.56
Serpis	-430.*	PF 7	905.94	155.06	164.14	160.4	164.53	0.001495	3.47	0.37
Serpis	-430.*	PF 8	905.94	155.06	166.07	160.4	166.29	0.000688	2.68	0.26
Serpis	-440.*	T1000	905.94	154.94	160.65	160.29	162.16	0.009835	6.44	0.88
Serpis	-440.*	PF 2	905.94	154.94	160.65	160.29	162.16	0.009835	6.44	0.88
Serpis	-440.*	PF 3	905.94	154.94	160.65	160.29	162.16	0.009835	6.44	0.88
Serpis	-440.*	PF 4	905.94	154.94	160.67	160.29	162.16	0.009731	6.42	0.87
Serpis	-440.*	PF 5	905.94	154.94	160.91	160.29	162.23	0.008228	6.07	0.81
Serpis	-440.*	PF 6	905.94	154.94	162.33	160.29	163.03	0.003414	4.53	0.54

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-440.*	PF 7	905.94	154.94	164.15	160.29	164.51	0.001384	3.35	0.36
Serpis	-440.*	PF 8	905.94	154.94	166.08	160.29	166.28	0.00064	2.59	0.25
Serpis	-450.*	T1000	905.94	154.83	160.63	160.19	162.03	0.009275	6.28	0.85
Serpis	-450.*	PF 2	905.94	154.83	160.63	160.19	162.03	0.009275	6.28	0.85
Serpis	-450.*	PF 3	905.94	154.83	160.63	160.19	162.03	0.009274	6.28	0.85
Serpis	-450.*	PF 4	905.94	154.83	160.64	160.19	162.03	0.009168	6.25	0.85
Serpis	-450.*	PF 5	905.94	154.83	160.9	160.19	162.12	0.007654	5.89	0.78
Serpis	-450.*	PF 6	905.94	154.83	162.35	160.19	162.97	0.003094	4.34	0.51
Serpis	-450.*	PF 7	905.94	154.83	164.16	160.19	164.48	0.00127	3.23	0.34
Serpis	-450.*	PF 8	905.94	154.83	166.08	160.19	166.27	0.00059	2.5	0.24
Serpis	-460	T1000	905.94	154.71	160.66	160.14	161.88	0.008179	5.95	0.8
Serpis	-460	PF 2	905.94	154.71	160.66	160.14	161.88	0.008179	5.95	0.8
Serpis	-460	PF 3	905.94	154.71	160.66	160.14	161.88	0.008179	5.95	0.8
Serpis	-460	PF 4	905.94	154.71	160.67	160.14	161.88	0.00808	5.92	0.8
Serpis	-460	PF 5	905.94	154.71	160.93	160.14	161.99	0.006712	5.56	0.73
Serpis	-460	PF 6	905.94	154.71	162.37	160.14	162.91	0.002781	4.14	0.49
Serpis	-460	PF 7	905.94	154.71	164.17	160.14	164.46	0.001155	3.09	0.33
Serpis	-460	PF 8	905.94	154.71	166.09	160.14	166.25	0.000542	2.4	0.23
Serpis	-470.*	T1000	905.94	154.48	160.17	159.9	161.73	0.010558	6.5	0.9
Serpis	-470.*	PF 2	905.94	154.48	160.17	159.9	161.73	0.010558	6.5	0.9
Serpis	-470.*	PF 3	905.94	154.48	160.17	159.9	161.73	0.010559	6.5	0.9
Serpis	-470.*	PF 4	905.94	154.48	160.07	159.9	161.72	0.011392	6.66	0.93
Serpis	-470.*	PF 5	905.94	154.48	160.82	159.9	161.91	0.006574	5.54	0.72
Serpis	-470.*	PF 6	905.94	154.48	162.34	159.9	162.89	0.002592	4.05	0.47

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-470.*	PF 7	905.94	154.48	164.16	159.9	164.45	0.001078	3.02	0.32
Serpis	-470.*	PF 8	905.94	154.48	166.08	159.9	166.25	0.000508	2.35	0.22
Serpis	-480.*	T1000	905.94	154.25	159.9	159.79	161.6	0.011305	6.62	0.93
Serpis	-480.*	PF 2	905.94	154.25	159.9	159.79	161.6	0.011305	6.62	0.93
Serpis	-480.*	PF 3	905.94	154.25	159.9	159.79	161.6	0.0113	6.62	0.93
Serpis	-480.*	PF 4	905.94	154.25	159.96	159.79	161.61	0.010769	6.52	0.91
Serpis	-480.*	PF 5	905.94	154.25	160.76	159.79	161.84	0.006118	5.4	0.7
Serpis	-480.*	PF 6	905.94	154.25	162.32	159.79	162.86	0.002386	3.93	0.45
Serpis	-480.*	PF 7	905.94	154.25	164.15	159.79	164.43	0.000997	2.93	0.3
Serpis	-480.*	PF 8	905.94	154.25	166.08	159.79	166.24	0.000472	2.28	0.22
Serpis	-490.*	T1000	905.94	154.02	159.8	159.64	161.48	0.010627	6.46	0.9
Serpis	-490.*	PF 2	905.94	154.02	159.8	159.64	161.48	0.010627	6.46	0.9
Serpis	-490.*	PF 3	905.94	154.02	159.8	159.64	161.48	0.01062	6.46	0.9
Serpis	-490.*	PF 4	905.94	154.02	159.88	159.64	161.49	0.010063	6.35	0.88
Serpis	-490.*	PF 5	905.94	154.02	160.71	159.64	161.78	0.005666	5.25	0.68
Serpis	-490.*	PF 6	905.94	154.02	162.31	159.64	162.83	0.002212	3.82	0.44
Serpis	-490.*	PF 7	905.94	154.02	164.15	159.64	164.42	0.00093	2.86	0.29
Serpis	-490.*	PF 8	905.94	154.02	166.08	159.64	166.24	0.000442	2.23	0.21
Serpis	-500.*	T1000	905.94	153.79	159.75	159.49	161.36	0.009722	6.24	0.86
Serpis	-500.*	PF 2	905.94	153.79	159.75	159.49	161.36	0.009722	6.24	0.86
Serpis	-500.*	PF 3	905.94	153.79	159.75	159.49	161.36	0.009715	6.24	0.86
Serpis	-500.*	PF 4	905.94	153.79	159.83	159.49	161.37	0.009182	6.13	0.84
Serpis	-500.*	PF 5	905.94	153.79	160.69	159.49	161.71	0.005145	5.06	0.64
Serpis	-500.*	PF 6	905.94	153.79	162.29	159.49	162.81	0.002046	3.71	0.42

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-500.*	PF 7	905.94	153.79	164.14	159.49	164.41	0.000868	2.78	0.28
Serpis	-500.*	PF 8	905.94	153.79	166.08	159.49	166.23	0.000415	2.17	0.2
Serpis	-510.*	T1000	905.94	153.56	159.71	159.31	161.23	0.008761	6	0.82
Serpis	-510.*	PF 2	905.94	153.56	159.71	159.31	161.23	0.008761	6	0.82
Serpis	-510.*	PF 3	905.94	153.56	159.71	159.31	161.23	0.008755	5.99	0.82
Serpis	-510.*	PF 4	905.94	153.56	159.8	159.31	161.25	0.008265	5.88	0.8
Serpis	-510.*	PF 5	905.94	153.56	160.68	159.31	161.64	0.004646	4.87	0.61
Serpis	-510.*	PF 6	905.94	153.56	162.28	159.31	162.78	0.001888	3.6	0.41
Serpis	-510.*	PF 7	905.94	153.56	164.14	159.31	164.4	0.00081	2.71	0.28
Serpis	-510.*	PF 8	905.94	153.56	166.07	159.31	166.23	0.00039	2.12	0.2
Serpis	-520.*	T1000	905.94	153.34	159.71	159.14	161.11	0.007735	5.71	0.77
Serpis	-520.*	PF 2	905.94	153.34	159.71	159.14	161.11	0.007735	5.71	0.77
Serpis	-520.*	PF 3	905.94	153.34	159.71	159.14	161.11	0.007729	5.71	0.77
Serpis	-520.*	PF 4	905.94	153.34	159.79	159.14	161.14	0.007294	5.6	0.75
Serpis	-520.*	PF 5	905.94	153.34	160.67	159.14	161.57	0.004153	4.66	0.58
Serpis	-520.*	PF 6	905.94	153.34	162.28	159.14	162.75	0.001728	3.48	0.39
Serpis	-520.*	PF 7	905.94	153.34	164.14	159.14	164.39	0.00075	2.63	0.27
Serpis	-520.*	PF 8	905.94	153.34	166.07	159.14	166.22	0.000363	2.06	0.19
Serpis	-530.*	T1000	905.94	153.11	159.7	158.95	161	0.006868	5.45	0.73
Serpis	-530.*	PF 2	905.94	153.11	159.7	158.95	161	0.006868	5.45	0.73
Serpis	-530.*	PF 3	905.94	153.11	159.7	158.95	161	0.006864	5.45	0.73
Serpis	-530.*	PF 4	905.94	153.11	159.79	158.95	161.04	0.006486	5.35	0.71
Serpis	-530.*	PF 5	905.94	153.11	160.67	158.95	161.51	0.003739	4.47	0.55
Serpis	-530.*	PF 6	905.94	153.11	162.28	158.95	162.73	0.001591	3.37	0.37

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-530.*	PF 7	905.94	153.11	164.13	158.95	164.38	0.0007	2.56	0.26
Serpis	-530.*	PF 8	905.94	153.11	166.07	158.95	166.22	0.000342	2.01	0.18
Serpis	-540.*	T1000	905.94	152.88	159.7	158.76	160.9	0.006097	5.21	0.69
Serpis	-540.*	PF 2	905.94	152.88	159.7	158.76	160.9	0.006097	5.21	0.69
Serpis	-540.*	PF 3	905.94	152.88	159.7	158.76	160.9	0.006093	5.2	0.69
Serpis	-540.*	PF 4	905.94	152.88	159.79	158.76	160.94	0.005766	5.11	0.67
Serpis	-540.*	PF 5	905.94	152.88	160.67	158.76	161.46	0.003368	4.29	0.53
Serpis	-540.*	PF 6	905.94	152.88	162.28	158.76	162.71	0.001464	3.26	0.36
Serpis	-540.*	PF 7	905.94	152.88	164.13	158.76	164.37	0.000653	2.49	0.25
Serpis	-540.*	PF 8	905.94	152.88	166.07	158.76	166.21	0.000322	1.96	0.18
Serpis	-550.*	T1000	905.94	152.65	159.71	158.58	160.81	0.005382	4.96	0.65
Serpis	-550.*	PF 2	905.94	152.65	159.71	158.58	160.81	0.005382	4.96	0.65
Serpis	-550.*	PF 3	905.94	152.65	159.71	158.58	160.81	0.005379	4.95	0.65
Serpis	-550.*	PF 4	905.94	152.65	159.79	158.58	160.85	0.005098	4.87	0.63
Serpis	-550.*	PF 5	905.94	152.65	160.68	158.58	161.41	0.003019	4.1	0.5
Serpis	-550.*	PF 6	905.94	152.65	162.28	158.58	162.69	0.001335	3.14	0.34
Serpis	-550.*	PF 7	905.94	152.65	164.13	158.58	164.36	0.000605	2.41	0.24
Serpis	-550.*	PF 8	905.94	152.65	166.07	158.58	166.21	0.0003	1.9	0.17
Serpis	-560	T1000	905.94	152.42	159.71	158.39	160.73	0.004793	4.73	0.61
Serpis	-560	PF 2	905.94	152.42	159.71	158.39	160.73	0.004793	4.73	0.61
Serpis	-560	PF 3	905.94	152.42	159.72	158.39	160.73	0.00479	4.73	0.61
Serpis	-560	PF 4	905.94	152.42	159.8	158.39	160.78	0.004547	4.65	0.6
Serpis	-560	PF 5	905.94	152.42	160.68	158.39	161.36	0.002727	3.94	0.48
Serpis	-560	PF 6	905.94	152.42	162.28	158.39	162.67	0.001226	3.03	0.33

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-560	PF 7	905.94	152.42	164.13	158.39	164.35	0.000565	2.34	0.23
Serpis	-560	PF 8	905.94	152.42	166.07	158.39	166.2	0.000283	1.86	0.17
Serpis	-570.*	T1000	905.94	152.29	159.66	158.33	160.68	0.004808	4.76	0.62
Serpis	-570.*	PF 2	905.94	152.29	159.66	158.33	160.68	0.004808	4.76	0.62
Serpis	-570.*	PF 3	905.94	152.29	159.66	158.33	160.68	0.004805	4.76	0.62
Serpis	-570.*	PF 4	905.94	152.29	159.75	158.33	160.73	0.004547	4.67	0.6
Serpis	-570.*	PF 5	905.94	152.29	160.66	158.33	161.33	0.002685	3.93	0.47
Serpis	-570.*	PF 6	905.94	152.29	162.27	158.33	162.65	0.001206	3.02	0.33
Serpis	-570.*	PF 7	905.94	152.29	164.13	158.33	164.35	0.000561	2.35	0.23
Serpis	-570.*	PF 8	905.94	152.29	166.07	158.33	166.2	0.000286	1.88	0.17
Serpis	-580.*	T1000	905.94	152.16	159.6	158.28	160.63	0.004829	4.78	0.62
Serpis	-580.*	PF 2	905.94	152.16	159.6	158.28	160.63	0.004829	4.78	0.62
Serpis	-580.*	PF 3	905.94	152.16	159.6	158.28	160.63	0.004826	4.78	0.62
Serpis	-580.*	PF 4	905.94	152.16	159.69	158.28	160.68	0.004552	4.69	0.6
Serpis	-580.*	PF 5	905.94	152.16	160.63	158.28	161.31	0.002649	3.93	0.47
Serpis	-580.*	PF 6	905.94	152.16	162.26	158.28	162.64	0.001188	3.02	0.33
Serpis	-580.*	PF 7	905.94	152.16	164.12	158.28	164.34	0.000556	2.35	0.23
Serpis	-580.*	PF 8	905.94	152.16	166.06	158.28	166.2	0.000286	1.88	0.17
Serpis	-590.*	T1000	905.94	152.03	159.54	158.22	160.58	0.004856	4.81	0.62
Serpis	-590.*	PF 2	905.94	152.03	159.54	158.22	160.58	0.004856	4.81	0.62
Serpis	-590.*	PF 3	905.94	152.03	159.54	158.22	160.58	0.004853	4.81	0.62
Serpis	-590.*	PF 4	905.94	152.03	159.64	158.22	160.64	0.004561	4.71	0.6
Serpis	-590.*	PF 5	905.94	152.03	160.61	158.22	161.28	0.002616	3.93	0.47
Serpis	-590.*	PF 6	905.94	152.03	162.25	158.22	162.63	0.001171	3.01	0.32

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-590.*	PF 7	905.94	152.03	164.12	158.22	164.33	0.00055	2.35	0.23
Serpis	-590.*	PF 8	905.94	152.03	166.06	158.22	166.19	0.000284	1.88	0.17
Serpis	-600.*	T1000	905.94	151.9	159.48	158.16	160.53	0.004889	4.84	0.62
Serpis	-600.*	PF 2	905.94	151.9	159.48	158.16	160.53	0.004889	4.84	0.62
Serpis	-600.*	PF 3	905.94	151.9	159.48	158.16	160.53	0.004885	4.84	0.62
Serpis	-600.*	PF 4	905.94	151.9	159.59	158.16	160.59	0.004573	4.74	0.6
Serpis	-600.*	PF 5	905.94	151.9	160.58	158.16	161.25	0.002585	3.93	0.46
Serpis	-600.*	PF 6	905.94	151.9	162.24	158.16	162.61	0.001154	3.01	0.32
Serpis	-600.*	PF 7	905.94	151.9	164.11	158.16	164.33	0.000544	2.34	0.23
Serpis	-600.*	PF 8	905.94	151.9	166.06	158.16	166.19	0.000282	1.88	0.17
Serpis	-610.*	T1000	905.94	151.77	159.41	158.11	160.48	0.004928	4.87	0.62
Serpis	-610.*	PF 2	905.94	151.77	159.41	158.11	160.48	0.004928	4.87	0.62
Serpis	-610.*	PF 3	905.94	151.77	159.41	158.11	160.48	0.004924	4.87	0.62
Serpis	-610.*	PF 4	905.94	151.77	159.53	158.11	160.54	0.004589	4.76	0.6
Serpis	-610.*	PF 5	905.94	151.77	160.56	158.11	161.23	0.002556	3.93	0.46
Serpis	-610.*	PF 6	905.94	151.77	162.23	158.11	162.6	0.001139	3	0.32
Serpis	-610.*	PF 7	905.94	151.77	164.11	158.11	164.32	0.000539	2.34	0.23
Serpis	-610.*	PF 8	905.94	151.77	166.05	158.11	166.19	0.00028	1.88	0.17
Serpis	-620.*	T1000	905.94	151.64	159.35	158.07	160.43	0.004973	4.91	0.63
Serpis	-620.*	PF 2	905.94	151.64	159.35	158.07	160.43	0.004973	4.91	0.63
Serpis	-620.*	PF 3	905.94	151.64	159.35	158.07	160.43	0.004969	4.9	0.63
Serpis	-620.*	PF 4	905.94	151.64	159.47	158.07	160.5	0.004609	4.79	0.6
Serpis	-620.*	PF 5	905.94	151.64	160.54	158.07	161.2	0.002527	3.93	0.46
Serpis	-620.*	PF 6	905.94	151.64	162.22	158.07	162.59	0.001123	3	0.32

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-620.*	PF 7	905.94	151.64	164.1	158.07	164.32	0.000533	2.34	0.23
Serpis	-620.*	PF 8	905.94	151.64	166.05	158.07	166.18	0.000278	1.88	0.17
Serpis	-630.*	T1000	905.94	151.51	159.28	158.02	160.37	0.005028	4.94	0.63
Serpis	-630.*	PF 2	905.94	151.51	159.28	158.02	160.37	0.005028	4.94	0.63
Serpis	-630.*	PF 3	905.94	151.51	159.28	158.02	160.38	0.005023	4.94	0.63
Serpis	-630.*	PF 4	905.94	151.51	159.42	158.02	160.45	0.004634	4.81	0.61
Serpis	-630.*	PF 5	905.94	151.51	160.51	158.02	161.17	0.0025	3.93	0.46
Serpis	-630.*	PF 6	905.94	151.51	162.21	158.02	162.58	0.001109	2.99	0.31
Serpis	-630.*	PF 7	905.94	151.51	164.1	158.02	164.31	0.000527	2.34	0.22
Serpis	-630.*	PF 8	905.94	151.51	166.05	158.02	166.18	0.000276	1.88	0.17
Serpis	-640	T1000	905.94	151.38	159.22	157.98	160.32	0.005087	4.98	0.63
Serpis	-640	PF 2	905.94	151.38	159.22	157.98	160.32	0.005087	4.98	0.63
Serpis	-640	PF 3	905.94	151.38	159.22	157.98	160.32	0.005082	4.98	0.63
Serpis	-640	PF 4	905.94	151.38	159.36	157.98	160.4	0.004661	4.84	0.61
Serpis	-640	PF 5	905.94	151.38	160.49	157.98	161.15	0.002473	3.92	0.45
Serpis	-640	PF 6	905.94	151.38	162.2	157.98	162.56	0.001094	2.99	0.31
Serpis	-640	PF 7	905.94	151.38	164.09	157.98	164.3	0.000521	2.33	0.22
Serpis	-640	PF 8	905.94	151.38	166.05	157.98	166.18	0.000273	1.88	0.17
Serpis	-650.*	T1000	905.94	151.34	159.09	157.95	160.26	0.005422	5.12	0.65
Serpis	-650.*	PF 2	905.94	151.34	159.09	157.95	160.26	0.005422	5.12	0.65
Serpis	-650.*	PF 3	905.94	151.34	159.09	157.95	160.26	0.005416	5.12	0.65
Serpis	-650.*	PF 4	905.94	151.34	159.25	157.95	160.34	0.004904	4.96	0.62
Serpis	-650.*	PF 5	905.94	151.34	160.44	157.95	161.12	0.002528	3.98	0.46
Serpis	-650.*	PF 6	905.94	151.34	162.19	157.95	162.55	0.001104	3.02	0.31

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-650.*	PF 7	905.94	151.34	164.09	157.95	164.3	0.000525	2.35	0.22
Serpis	-650.*	PF 8	905.94	151.34	166.04	157.95	166.18	0.000275	1.9	0.17
Serpis	-660.*	T1000	905.94	151.29	158.95	157.88	160.19	0.005781	5.26	0.67
Serpis	-660.*	PF 2	905.94	151.29	158.95	157.88	160.19	0.005781	5.26	0.67
Serpis	-660.*	PF 3	905.94	151.29	158.96	157.88	160.19	0.005773	5.26	0.67
Serpis	-660.*	PF 4	905.94	151.29	159.15	157.88	160.29	0.005144	5.07	0.64
Serpis	-660.*	PF 5	905.94	151.29	160.4	157.88	161.09	0.00257	4.03	0.46
Serpis	-660.*	PF 6	905.94	151.29	162.17	157.88	162.54	0.001112	3.05	0.32
Serpis	-660.*	PF 7	905.94	151.29	164.08	157.88	164.29	0.000527	2.37	0.22
Serpis	-660.*	PF 8	905.94	151.29	166.04	157.88	166.17	0.000276	1.91	0.17
Serpis	-670.*	T1000	905.94	151.24	158.81	157.85	160.12	0.006165	5.41	0.69
Serpis	-670.*	PF 2	905.94	151.24	158.81	157.85	160.12	0.006165	5.41	0.69
Serpis	-670.*	PF 3	905.94	151.24	158.82	157.85	160.12	0.006156	5.41	0.69
Serpis	-670.*	PF 4	905.94	151.24	159.04	157.85	160.23	0.005367	5.17	0.65
Serpis	-670.*	PF 5	905.94	151.24	160.36	157.85	161.06	0.002588	4.07	0.47
Serpis	-670.*	PF 6	905.94	151.24	162.15	157.85	162.53	0.001116	3.07	0.32
Serpis	-670.*	PF 7	905.94	151.24	164.07	157.85	164.29	0.000528	2.39	0.23
Serpis	-670.*	PF 8	905.94	151.24	166.04	157.85	166.17	0.000276	1.92	0.17
Serpis	-680.*	T1000	905.94	151.19	158.67	157.82	160.05	0.006576	5.55	0.72
Serpis	-680.*	PF 2	905.94	151.19	158.67	157.82	160.05	0.006576	5.55	0.72
Serpis	-680.*	PF 3	905.94	151.19	158.67	157.82	160.05	0.006561	5.55	0.72
Serpis	-680.*	PF 4	905.94	151.19	158.94	157.82	160.17	0.005568	5.26	0.66
Serpis	-680.*	PF 5	905.94	151.19	160.33	157.82	161.04	0.002594	4.09	0.47
Serpis	-680.*	PF 6	905.94	151.19	162.14	157.82	162.52	0.001116	3.09	0.32

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-680.*	PF 7	905.94	151.19	164.07	157.82	164.28	0.000528	2.4	0.23
Serpis	-680.*	PF 8	905.94	151.19	166.03	157.82	166.17	0.000276	1.93	0.17
Serpis	-690.*	T1000	905.94	151.14	158.52	157.77	159.97	0.00701	5.7	0.74
Serpis	-690.*	PF 2	905.94	151.14	158.52	157.77	159.97	0.00701	5.7	0.74
Serpis	-690.*	PF 3	905.94	151.14	158.52	157.77	159.97	0.00699	5.7	0.74
Serpis	-690.*	PF 4	905.94	151.14	158.85	157.77	160.11	0.005729	5.34	0.67
Serpis	-690.*	PF 5	905.94	151.14	160.3	157.77	161.01	0.002585	4.11	0.47
Serpis	-690.*	PF 6	905.94	151.14	162.13	157.77	162.51	0.001113	3.1	0.32
Serpis	-690.*	PF 7	905.94	151.14	164.06	157.77	164.28	0.000526	2.41	0.23
Serpis	-690.*	PF 8	905.94	151.14	166.03	157.77	166.16	0.000275	1.93	0.17
Serpis	-700.*	T1000	905.94	151.09	158.37	157.71	159.88	0.007468	5.85	0.76
Serpis	-700.*	PF 2	905.94	151.09	158.37	157.71	159.88	0.007468	5.85	0.76
Serpis	-700.*	PF 3	905.94	151.09	158.37	157.71	159.89	0.007436	5.84	0.76
Serpis	-700.*	PF 4	905.94	151.09	158.77	157.71	160.05	0.005819	5.39	0.68
Serpis	-700.*	PF 5	905.94	151.09	160.28	157.71	160.98	0.002563	4.12	0.47
Serpis	-700.*	PF 6	905.94	151.09	162.12	157.71	162.5	0.001105	3.11	0.32
Serpis	-700.*	PF 7	905.94	151.09	164.06	157.71	164.27	0.000522	2.41	0.22
Serpis	-700.*	PF 8	905.94	151.09	166.03	157.71	166.16	0.000273	1.93	0.17
Serpis	-710.*	T1000	905.94	151.04	158.22	157.65	159.8	0.007908	5.98	0.78
Serpis	-710.*	PF 2	905.94	151.04	158.22	157.65	159.8	0.007908	5.98	0.78
Serpis	-710.*	PF 3	905.94	151.04	158.23	157.65	159.8	0.007857	5.97	0.78
Serpis	-710.*	PF 4	905.94	151.04	158.71	157.65	159.99	0.00583	5.42	0.68
Serpis	-710.*	PF 5	905.94	151.04	160.26	157.65	160.96	0.002529	4.11	0.46
Serpis	-710.*	PF 6	905.94	151.04	162.11	157.65	162.48	0.001093	3.11	0.32

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-710.*	PF 7	905.94	151.04	164.05	157.65	164.27	0.000517	2.41	0.22
Serpis	-710.*	PF 8	905.94	151.04	166.03	157.65	166.16	0.00027	1.93	0.17
Serpis	-720.*	T1000	905.94	150.99	158.05	157.59	159.71	0.008463	6.14	0.81
Serpis	-720.*	PF 2	905.94	150.99	158.05	157.59	159.71	0.008463	6.14	0.81
Serpis	-720.*	PF 3	905.94	150.99	158.05	157.59	159.71	0.008478	6.14	0.81
Serpis	-720.*	PF 4	905.94	150.99	158.66	157.59	159.93	0.005803	5.43	0.68
Serpis	-720.*	PF 5	905.94	150.99	160.24	157.59	160.93	0.002482	4.1	0.46
Serpis	-720.*	PF 6	905.94	150.99	162.1	157.59	162.47	0.001075	3.1	0.31
Serpis	-720.*	PF 7	905.94	150.99	164.05	157.59	164.26	0.00051	2.41	0.22
Serpis	-720.*	PF 8	905.94	150.99	166.03	157.59	166.15	0.000267	1.93	0.17
Serpis	-730.*	T1000	905.94	150.94	157.86	157.51	159.61	0.009145	6.32	0.84
Serpis	-730.*	PF 2	905.94	150.94	157.86	157.51	159.61	0.009145	6.32	0.84
Serpis	-730.*	PF 3	905.94	150.94	157.85	157.51	159.61	0.009183	6.33	0.84
Serpis	-730.*	PF 4	905.94	150.94	158.61	157.51	159.86	0.00573	5.42	0.68
Serpis	-730.*	PF 5	905.94	150.94	160.23	157.51	160.9	0.002421	4.08	0.46
Serpis	-730.*	PF 6	905.94	150.94	162.09	157.51	162.46	0.001052	3.09	0.31
Serpis	-730.*	PF 7	905.94	150.94	164.05	157.51	164.25	0.0005	2.39	0.22
Serpis	-730.*	PF 8	905.94	150.94	166.03	157.51	166.15	0.000262	1.92	0.16
Serpis	-740.*	T1000	905.94	150.89	157.76	157.41	159.51	0.009322	6.38	0.84
Serpis	-740.*	PF 2	905.94	150.89	157.76	157.41	159.51	0.009322	6.38	0.84
Serpis	-740.*	PF 3	905.94	150.89	157.72	157.41	159.51	0.009524	6.42	0.85
Serpis	-740.*	PF 4	905.94	150.89	158.57	157.41	159.8	0.005607	5.4	0.67
Serpis	-740.*	PF 5	905.94	150.89	160.21	157.41	160.87	0.002348	4.05	0.45
Serpis	-740.*	PF 6	905.94	150.89	162.09	157.41	162.44	0.001023	3.06	0.31

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-740.*	PF 7	905.94	150.89	164.05	157.41	164.25	0.000488	2.38	0.22
Serpis	-740.*	PF 8	905.94	150.89	166.03	157.41	166.15	0.000255	1.9	0.16
Serpis	-750.*	T1000	905.94	150.85	157.67	157.34	159.42	0.009336	6.39	0.84
Serpis	-750.*	PF 2	905.94	150.85	157.67	157.34	159.42	0.009336	6.39	0.84
Serpis	-750.*	PF 3	905.94	150.85	157.52	157.34	159.39	0.010309	6.6	0.88
Serpis	-750.*	PF 4	905.94	150.85	158.54	157.34	159.73	0.005433	5.35	0.66
Serpis	-750.*	PF 5	905.94	150.85	160.21	157.34	160.83	0.00226	4	0.44
Serpis	-750.*	PF 6	905.94	150.85	162.09	157.34	162.43	0.000988	3.03	0.3
Serpis	-750.*	PF 7	905.94	150.85	164.05	157.34	164.24	0.000473	2.35	0.21
Serpis	-750.*	PF 8	905.94	150.85	166.03	157.34	166.14	0.000246	1.88	0.16
Serpis	-760.*	T1000	905.94	150.8	157.24	157.24	159.27	0.011746	6.9	0.94
Serpis	-760.*	PF 2	905.94	150.8	157.24	157.24	159.27	0.011746	6.9	0.94
Serpis	-760.*	PF 3	905.94	150.8	157.44	157.24	159.28	0.010263	6.6	0.88
Serpis	-760.*	PF 4	905.94	150.8	158.52	157.24	159.66	0.005206	5.28	0.65
Serpis	-760.*	PF 5	905.94	150.8	160.21	157.24	160.8	0.002159	3.94	0.43
Serpis	-760.*	PF 6	905.94	150.8	162.09	157.24	162.41	0.000948	2.98	0.3
Serpis	-760.*	PF 7	905.94	150.8	164.05	157.24	164.23	0.000455	2.32	0.21
Serpis	-760.*	PF 8	905.94	150.8	166.03	157.24	166.14	0.000236	1.84	0.16
Serpis	-770.*	T1000	905.94	150.75	157.05	157.11	159.14	0.012508	7.05	0.96
Serpis	-770.*	PF 2	905.94	150.75	157.05	157.11	159.14	0.012508	7.05	0.96
Serpis	-770.*	PF 3	905.94	150.75	157.38	157.11	159.16	0.00996	6.54	0.87
Serpis	-770.*	PF 4	905.94	150.75	158.51	157.11	159.58	0.004926	5.18	0.63
Serpis	-770.*	PF 5	905.94	150.75	160.21	157.11	160.77	0.002044	3.86	0.42
Serpis	-770.*	PF 6	905.94	150.75	162.1	157.11	162.4	0.000901	2.93	0.29

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-770.*	PF 7	905.94	150.75	164.05	157.11	164.22	0.00043	2.27	0.2
Serpis	-770.*	PF 8	905.94	150.75	166.03	157.11	166.13	0.000224	1.8	0.15
Serpis	-780.*	T1000	905.94	150.7	157.03	156.99	158.99	0.011739	6.9	0.93
Serpis	-780.*	PF 2	905.94	150.7	157.03	156.99	158.99	0.011769	6.9	0.94
Serpis	-780.*	PF 3	905.94	150.7	157.35	156.99	159.02	0.009423	6.41	0.84
Serpis	-780.*	PF 4	905.94	150.7	158.52	156.99	159.51	0.004597	5.06	0.61
Serpis	-780.*	PF 5	905.94	150.7	160.22	156.99	160.73	0.001915	3.77	0.41
Serpis	-780.*	PF 6	905.94	150.7	162.1	156.99	162.38	0.000847	2.85	0.28
Serpis	-780.*	PF 7	905.94	150.7	164.06	156.99	164.21	0.000403	2.2	0.2
Serpis	-780.*	PF 8	905.94	150.7	166.03	156.99	166.13	0.000211	1.76	0.15
Serpis	-790.*	T1000	905.94	150.65	157.01	156.86	158.83	0.010897	6.71	0.9
Serpis	-790.*	PF 2	905.94	150.65	157.01	156.86	158.82	0.010927	6.72	0.9
Serpis	-790.*	PF 3	905.94	150.65	157.35	156.86	158.89	0.008675	6.23	0.81
Serpis	-790.*	PF 4	905.94	150.65	158.53	156.86	159.44	0.004229	4.9	0.58
Serpis	-790.*	PF 5	905.94	150.65	160.23	156.86	160.7	0.001772	3.65	0.39
Serpis	-790.*	PF 6	905.94	150.65	162.11	156.86	162.36	0.000776	2.75	0.27
Serpis	-790.*	PF 7	905.94	150.65	164.06	156.86	164.2	0.000374	2.13	0.19
Serpis	-790.*	PF 8	905.94	150.65	166.04	156.86	166.12	0.000199	1.71	0.14
Serpis	-800	T1000	905.94	150.6	157.03	156.7	158.65	0.009757	6.44	0.85
Serpis	-800	PF 2	905.94	150.6	157.03	156.7	158.65	0.009786	6.45	0.85
Serpis	-800	PF 3	905.94	150.6	157.38	156.7	158.75	0.007769	5.97	0.77
Serpis	-800	PF 4	905.94	150.6	158.55	156.7	159.36	0.003825	4.71	0.56
Serpis	-800	PF 5	905.94	150.6	160.24	156.7	160.66	0.001607	3.5	0.37
Serpis	-800	PF 6	905.94	150.6	162.12	156.7	162.34	0.000706	2.63	0.25

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-800	PF 7	905.94	150.6	164.07	156.7	164.2	0.000346	2.06	0.18
Serpis	-800	PF 8	905.94	150.6	166.04	156.7	166.12	0.000186	1.66	0.14
Serpis	-810.*	T1000	905.94	150.55	157.02	156.55	158.52	0.008803	6.21	0.82
Serpis	-810.*	PF 2	905.94	150.55	157.01	156.55	158.52	0.008829	6.21	0.82
Serpis	-810.*	PF 3	905.94	150.55	157.37	156.55	158.64	0.006986	5.75	0.74
Serpis	-810.*	PF 4	905.94	150.55	158.55	156.55	159.3	0.003453	4.54	0.53
Serpis	-810.*	PF 5	905.94	150.55	160.25	156.55	160.64	0.001469	3.4	0.36
Serpis	-810.*	PF 6	905.94	150.55	162.12	156.55	162.33	0.00065	2.56	0.25
Serpis	-810.*	PF 7	905.94	150.55	164.07	156.55	164.19	0.00032	2	0.18
Serpis	-810.*	PF 8	905.94	150.55	166.04	156.55	166.12	0.000172	1.61	0.13
Serpis	-820.*	T1000	905.94	150.5	157.01	156.39	158.4	0.00792	5.97	0.78
Serpis	-820.*	PF 2	905.94	150.5	157	156.39	158.39	0.007944	5.97	0.78
Serpis	-820.*	PF 3	905.94	150.5	157.36	156.39	158.54	0.006279	5.52	0.7
Serpis	-820.*	PF 4	905.94	150.5	158.55	156.39	159.25	0.003121	4.37	0.51
Serpis	-820.*	PF 5	905.94	150.5	160.25	156.39	160.62	0.001343	3.28	0.35
Serpis	-820.*	PF 6	905.94	150.5	162.13	156.39	162.32	0.000598	2.48	0.24
Serpis	-820.*	PF 7	905.94	150.5	164.07	156.39	164.18	0.000296	1.94	0.17
Serpis	-820.*	PF 8	905.94	150.5	166.04	156.39	166.11	0.00016	1.57	0.13
Serpis	-830.*	T1000	905.94	150.45	157.01	156.24	158.28	0.007115	5.73	0.75
Serpis	-830.*	PF 2	905.94	150.45	157	156.24	158.28	0.007136	5.73	0.75
Serpis	-830.*	PF 3	905.94	150.45	157.37	156.24	158.44	0.005643	5.3	0.67
Serpis	-830.*	PF 4	905.94	150.45	158.56	156.24	159.21	0.002827	4.21	0.49
Serpis	-830.*	PF 5	905.94	150.45	160.25	156.24	160.6	0.001227	3.17	0.33
Serpis	-830.*	PF 6	905.94	150.45	162.13	156.24	162.31	0.00055	2.4	0.23

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-830.*	PF 7	905.94	150.45	164.07	156.24	164.18	0.000273	1.88	0.17
Serpis	-830.*	PF 8	905.94	150.45	166.04	156.24	166.11	0.000148	1.52	0.13
Serpis	-840.*	T1000	905.94	150.4	157.01	156.08	158.18	0.00638	5.49	0.71
Serpis	-840.*	PF 2	905.94	150.4	157	156.08	158.17	0.006399	5.5	0.71
Serpis	-840.*	PF 3	905.94	150.4	157.37	156.08	158.36	0.005067	5.09	0.64
Serpis	-840.*	PF 4	905.94	150.4	158.56	156.08	159.16	0.002562	4.05	0.47
Serpis	-840.*	PF 5	905.94	150.4	160.26	156.08	160.57	0.00112	3.06	0.32
Serpis	-840.*	PF 6	905.94	150.4	162.13	156.08	162.3	0.000506	2.32	0.22
Serpis	-840.*	PF 7	905.94	150.4	164.07	156.08	164.17	0.000252	1.82	0.16
Serpis	-840.*	PF 8	905.94	150.4	166.04	156.08	166.11	0.000137	1.47	0.12
Serpis	-850.*	T1000	905.94	150.35	157.01	155.91	158.08	0.005715	5.26	0.67
Serpis	-850.*	PF 2	905.94	150.35	157.01	155.91	158.08	0.005732	5.26	0.68
Serpis	-850.*	PF 3	905.94	150.35	157.38	155.91	158.28	0.004553	4.87	0.61
Serpis	-850.*	PF 4	905.94	150.35	158.57	155.91	159.12	0.002317	3.89	0.45
Serpis	-850.*	PF 5	905.94	150.35	160.26	155.91	160.56	0.00102	2.94	0.31
Serpis	-850.*	PF 6	905.94	150.35	162.13	155.91	162.29	0.000464	2.24	0.21
Serpis	-850.*	PF 7	905.94	150.35	164.08	155.91	164.17	0.000232	1.76	0.15
Serpis	-850.*	PF 8	905.94	150.35	166.05	155.91	166.1	0.000127	1.43	0.12
Serpis	-860.*	T1000	905.94	150.3	157.02	155.76	157.99	0.005122	5.03	0.64
Serpis	-860.*	PF 2	905.94	150.3	157.02	155.76	157.99	0.005137	5.04	0.64
Serpis	-860.*	PF 3	905.94	150.3	157.39	155.76	158.21	0.004089	4.67	0.58
Serpis	-860.*	PF 4	905.94	150.3	158.58	155.76	159.08	0.002091	3.73	0.43
Serpis	-860.*	PF 5	905.94	150.3	160.27	155.76	160.54	0.000926	2.83	0.29
Serpis	-860.*	PF 6	905.94	150.3	162.14	155.76	162.28	0.000425	2.16	0.2

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-860.*	PF 7	905.94	150.3	164.08	155.76	164.16	0.000213	1.7	0.15
Serpis	-860.*	PF 8	905.94	150.3	166.05	155.76	166.1	0.000122	1.41	0.11
Serpis	-870.*	T1000	905.94	150.25	157.03	155.61	157.91	0.004574	4.81	0.61
Serpis	-870.*	PF 2	905.94	150.25	157.03	155.61	157.91	0.004588	4.81	0.61
Serpis	-870.*	PF 3	905.94	150.25	157.4	155.61	158.14	0.003656	4.46	0.55
Serpis	-870.*	PF 4	905.94	150.25	158.59	155.61	159.04	0.00188	3.57	0.4
Serpis	-870.*	PF 5	905.94	150.25	160.27	155.61	160.52	0.000839	2.71	0.28
Serpis	-870.*	PF 6	905.94	150.25	162.14	155.61	162.28	0.000387	2.07	0.2
Serpis	-870.*	PF 7	905.94	150.25	164.08	155.61	164.16	0.000196	1.64	0.14
Serpis	-870.*	PF 8	905.94	150.25	166.05	155.61	166.1	0.000114	1.37	0.11
Serpis	-880.*	T1000	905.94	150.2	157.05	155.46	157.84	0.004063	4.58	0.58
Serpis	-880.*	PF 2	905.94	150.2	157.04	155.46	157.83	0.004074	4.58	0.58
Serpis	-880.*	PF 3	905.94	150.2	157.41	155.46	158.08	0.003254	4.25	0.52
Serpis	-880.*	PF 4	905.94	150.2	158.6	155.46	159.01	0.001684	3.4	0.38
Serpis	-880.*	PF 5	905.94	150.2	160.28	155.46	160.5	0.000757	2.59	0.27
Serpis	-880.*	PF 6	905.94	150.2	162.15	155.46	162.27	0.000352	1.99	0.19
Serpis	-880.*	PF 7	905.94	150.2	164.08	155.46	164.16	0.000189	1.62	0.14
Serpis	-880.*	PF 8	905.94	150.2	166.05	155.46	166.1	0.000103	1.31	0.11
Serpis	-890.*	T1000	905.94	150.15	157.07	155.29	157.77	0.003586	4.35	0.54
Serpis	-890.*	PF 2	905.94	150.15	157.06	155.29	157.77	0.003597	4.35	0.54
Serpis	-890.*	PF 3	905.94	150.15	157.43	155.29	158.03	0.00288	4.04	0.49
Serpis	-890.*	PF 4	905.94	150.15	158.61	155.29	158.98	0.001502	3.24	0.36
Serpis	-890.*	PF 5	905.94	150.15	160.29	155.29	160.49	0.000679	2.47	0.25
Serpis	-890.*	PF 6	905.94	150.15	162.15	155.29	162.26	0.00032	1.9	0.18

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-890.*	PF 7	905.94	150.15	164.08	155.29	164.15	0.000178	1.58	0.14
Serpis	-890.*	PF 8	905.94	150.15	166.05	155.29	166.09	0.000084	1.18	0.1
Serpis	-900.*	T1000	905.94	150.1	157.09	155.13	157.71	0.003145	4.11	0.51
Serpis	-900.*	PF 2	905.94	150.1	157.08	155.13	157.7	0.003154	4.11	0.51
Serpis	-900.*	PF 3	905.94	150.1	157.45	155.13	157.98	0.002534	3.82	0.46
Serpis	-900.*	PF 4	905.94	150.1	158.63	155.13	158.95	0.001331	3.07	0.34
Serpis	-900.*	PF 5	905.94	150.1	160.3	155.13	160.47	0.000607	2.35	0.24
Serpis	-900.*	PF 6	905.94	150.1	162.15	155.13	162.26	0.000315	1.9	0.18
Serpis	-900.*	PF 7	905.94	150.1	164.09	155.13	164.15	0.000147	1.44	0.12
Serpis	-900.*	PF 8	905.94	150.1	166.06	155.13	166.09	0.000065	1.05	0.08
Serpis	-910.*	T1000	905.94	150.05	157.11	154.97	157.65	0.002737	3.87	0.48
Serpis	-910.*	PF 2	905.94	150.05	157.1	154.97	157.65	0.002745	3.88	0.48
Serpis	-910.*	PF 3	905.94	150.05	157.47	154.97	157.93	0.002212	3.61	0.43
Serpis	-910.*	PF 4	905.94	150.05	158.64	154.97	158.93	0.001172	2.91	0.32
Serpis	-910.*	PF 5	905.94	150.05	160.3	154.97	160.46	0.000539	2.23	0.23
Serpis	-910.*	PF 6	905.94	150.05	162.15	154.97	162.25	0.000281	1.8	0.17
Serpis	-910.*	PF 7	905.94	150.05	164.1	154.97	164.14	0.00011	1.25	0.11
Serpis	-910.*	PF 8	905.94	150.05	166.06	154.97	166.08	0.00005	0.92	0.07
Serpis	-920	T1000	905.94	150	157.13	154.78	157.6	0.002362	3.63	0.44
Serpis	-920	PF 2	905.94	150	157.13	154.78	157.59	0.002368	3.64	0.44
Serpis	-920	PF 3	905.94	150	157.49	154.78	157.89	0.001916	3.39	0.4
Serpis	-920	PF 4	905.94	150	158.65	154.78	158.9	0.001024	2.74	0.3
Serpis	-920	PF 5	905.94	150	160.27	154.78	160.45	0.000587	2.33	0.24
Serpis	-920	PF 6	905.94	150	162.17	154.78	162.24	0.000198	1.52	0.14

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-920	PF 7	905.94	150	164.11	154.78	164.13	0.000081	1.08	0.09
Serpis	-920	PF 8	905.94	150	166.07	154.78	166.08	0.000039	0.81	0.07
Serpis	-930.*	T1000	905.94	149.79	157.1	154.72	157.57	0.002331	3.64	0.44
Serpis	-930.*	PF 2	905.94	149.79	157.1	154.72	157.57	0.002338	3.65	0.44
Serpis	-930.*	PF 3	905.94	149.79	157.46	154.72	157.87	0.001891	3.39	0.4
Serpis	-930.*	PF 4	905.94	149.79	158.64	154.72	158.89	0.001014	2.75	0.3
Serpis	-930.*	PF 5	905.94	149.79	160.29	154.72	160.43	0.000477	2.12	0.21
Serpis	-930.*	PF 6	905.94	149.79	162.14	154.72	162.23	0.000261	1.76	0.16
Serpis	-930.*	PF 7	905.94	149.79	164.09	154.72	164.13	0.000104	1.23	0.1
Serpis	-930.*	PF 8	905.94	149.79	166.06	154.72	166.08	0.000048	0.91	0.07
Serpis	-940.*	T1000	905.94	149.58	157.07	154.66	157.55	0.002324	3.66	0.44
Serpis	-940.*	PF 2	905.94	149.58	157.07	154.66	157.54	0.00233	3.66	0.44
Serpis	-940.*	PF 3	905.94	149.58	157.44	154.66	157.85	0.001883	3.41	0.4
Serpis	-940.*	PF 4	905.94	149.58	158.62	154.66	158.88	0.001012	2.76	0.3
Serpis	-940.*	PF 5	905.94	149.58	160.29	154.66	160.43	0.000476	2.13	0.21
Serpis	-940.*	PF 6	905.94	149.58	162.14	154.66	162.22	0.000242	1.7	0.16
Serpis	-940.*	PF 7	905.94	149.58	164.08	154.66	164.13	0.000128	1.36	0.12
Serpis	-940.*	PF 8	905.94	149.58	166.05	154.66	166.08	0.00006	1.02	0.08
Serpis	-950.*	T1000	905.94	149.37	157.04	154.6	157.52	0.002315	3.67	0.44
Serpis	-950.*	PF 2	905.94	149.37	157.04	154.6	157.52	0.002321	3.67	0.44
Serpis	-950.*	PF 3	905.94	149.37	157.42	154.6	157.83	0.001874	3.41	0.4
Serpis	-950.*	PF 4	905.94	149.37	158.61	154.6	158.87	0.001008	2.76	0.3
Serpis	-950.*	PF 5	905.94	149.37	160.28	154.6	160.42	0.000477	2.14	0.21
Serpis	-950.*	PF 6	905.94	149.37	162.14	154.6	162.22	0.000238	1.69	0.15

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-950.*	PF 7	905.94	149.37	164.07	154.6	164.13	0.000128	1.36	0.12
Serpis	-950.*	PF 8	905.94	149.37	166.05	154.6	166.08	0.00007	1.1	0.09
Serpis	-960.*	T1000	905.94	149.15	157.01	154.56	157.5	0.002316	3.67	0.44
Serpis	-960.*	PF 2	905.94	149.15	157.01	154.56	157.5	0.002323	3.68	0.44
Serpis	-960.*	PF 3	905.94	149.15	157.39	154.56	157.81	0.001873	3.42	0.4
Serpis	-960.*	PF 4	905.94	149.15	158.6	154.56	158.86	0.001008	2.77	0.3
Serpis	-960.*	PF 5	905.94	149.15	160.27	154.56	160.42	0.000479	2.14	0.21
Serpis	-960.*	PF 6	905.94	149.15	162.13	154.56	162.22	0.000237	1.68	0.15
Serpis	-960.*	PF 7	905.94	149.15	164.07	154.56	164.12	0.000124	1.34	0.11
Serpis	-960.*	PF 8	905.94	149.15	166.04	154.56	166.08	0.000071	1.11	0.09
Serpis	-970.*	T1000	905.94	148.94	156.98	154.52	157.48	0.002341	3.69	0.44
Serpis	-970.*	PF 2	905.94	148.94	156.98	154.52	157.47	0.002347	3.69	0.44
Serpis	-970.*	PF 3	905.94	148.94	157.37	154.52	157.79	0.001889	3.43	0.4
Serpis	-970.*	PF 4	905.94	148.94	158.59	154.52	158.85	0.001015	2.78	0.3
Serpis	-970.*	PF 5	905.94	148.94	160.27	154.52	160.41	0.000484	2.15	0.21
Serpis	-970.*	PF 6	905.94	148.94	162.13	154.52	162.22	0.000238	1.69	0.15
Serpis	-970.*	PF 7	905.94	148.94	164.07	154.52	164.12	0.000125	1.35	0.11
Serpis	-970.*	PF 8	905.94	148.94	166.04	154.52	166.08	0.000071	1.11	0.09
Serpis	-980.*	T1000	905.94	148.73	156.96	154.49	157.45	0.002366	3.7	0.44
Serpis	-980.*	PF 2	905.94	148.73	156.95	154.49	157.45	0.002373	3.71	0.44
Serpis	-980.*	PF 3	905.94	148.73	157.35	154.49	157.77	0.001905	3.44	0.4
Serpis	-980.*	PF 4	905.94	148.73	158.58	154.49	158.84	0.001022	2.78	0.3
Serpis	-980.*	PF 5	905.94	148.73	160.26	154.49	160.41	0.000487	2.16	0.21
Serpis	-980.*	PF 6	905.94	148.73	162.13	154.49	162.21	0.000239	1.68	0.15

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-980.*	PF 7	905.94	148.73	164.07	154.49	164.12	0.000126	1.35	0.11
Serpis	-980.*	PF 8	905.94	148.73	166.04	154.49	166.08	0.000071	1.1	0.09
Serpis	-990.*	T1000	905.94	148.52	156.93	154.45	157.43	0.002405	3.72	0.44
Serpis	-990.*	PF 2	905.94	148.52	156.92	154.45	157.42	0.002412	3.72	0.44
Serpis	-990.*	PF 3	905.94	148.52	157.32	154.45	157.75	0.001931	3.45	0.4
Serpis	-990.*	PF 4	905.94	148.52	158.56	154.45	158.83	0.001033	2.79	0.3
Serpis	-990.*	PF 5	905.94	148.52	160.26	154.45	160.4	0.000492	2.16	0.21
Serpis	-990.*	PF 6	905.94	148.52	162.13	154.45	162.21	0.000241	1.69	0.15
Serpis	-990.*	PF 7	905.94	148.52	164.07	154.45	164.12	0.000128	1.35	0.11
Serpis	-990.*	PF 8	905.94	148.52	166.04	154.45	166.07	0.000072	1.11	0.09
Serpis	-1000.*	T1000	905.94	148.31	156.89	154.45	157.4	0.002468	3.74	0.44
Serpis	-1000.*	PF 2	905.94	148.31	156.89	154.45	157.4	0.002475	3.74	0.44
Serpis	-1000.*	PF 3	905.94	148.31	157.3	154.45	157.73	0.001973	3.47	0.4
Serpis	-1000.*	PF 4	905.94	148.31	158.55	154.45	158.82	0.001051	2.8	0.3
Serpis	-1000.*	PF 5	905.94	148.31	160.25	154.45	160.4	0.0005	2.17	0.21
Serpis	-1000.*	PF 6	905.94	148.31	162.12	154.45	162.21	0.000245	1.69	0.15
Serpis	-1000.*	PF 7	905.94	148.31	164.07	154.45	164.12	0.000129	1.35	0.11
Serpis	-1000.*	PF 8	905.94	148.31	166.04	154.45	166.07	0.000073	1.11	0.09
Serpis	-1010	T1000	905.94	148.1	156.86	154.43	157.38	0.002536	3.76	0.45
Serpis	-1010	PF 2	905.94	148.1	156.86	154.43	157.37	0.002543	3.76	0.45
Serpis	-1010	PF 3	905.94	148.1	157.28	154.43	157.71	0.002019	3.48	0.4
Serpis	-1010	PF 4	905.94	148.1	158.54	154.43	158.81	0.001069	2.8	0.3
Serpis	-1010	PF 5	905.94	148.1	160.24	154.43	160.39	0.000507	2.17	0.21
Serpis	-1010	PF 6	905.94	148.1	162.12	154.43	162.21	0.000248	1.69	0.15

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1010	PF 7	905.94	148.1	164.07	154.43	164.12	0.000131	1.35	0.11
Serpis	-1010	PF 8	905.94	148.1	166.04	154.43	166.07	0.000074	1.11	0.09
Serpis	-1020.*	T1000	905.94	147.97	156.85	154.33	157.35	0.002382	3.67	0.43
Serpis	-1020.*	PF 2	905.94	147.97	156.85	154.33	157.34	0.002389	3.67	0.43
Serpis	-1020.*	PF 3	905.94	147.97	157.27	154.33	157.68	0.001896	3.4	0.39
Serpis	-1020.*	PF 4	905.94	147.97	158.54	154.33	158.79	0.001006	2.74	0.29
Serpis	-1020.*	PF 5	905.94	147.97	160.24	154.33	160.39	0.00048	2.13	0.21
Serpis	-1020.*	PF 6	905.94	147.97	162.12	154.33	162.2	0.000236	1.66	0.15
Serpis	-1020.*	PF 7	905.94	147.97	164.07	154.33	164.12	0.000125	1.33	0.11
Serpis	-1020.*	PF 8	905.94	147.97	166.04	154.33	166.07	0.000071	1.09	0.09
Serpis	-1030.*	T1000	905.94	147.85	156.84	154.23	157.32	0.002241	3.58	0.42
Serpis	-1030.*	PF 2	905.94	147.85	156.83	154.23	157.31	0.002248	3.58	0.42
Serpis	-1030.*	PF 3	905.94	147.85	157.26	154.23	157.66	0.001784	3.32	0.38
Serpis	-1030.*	PF 4	905.94	147.85	158.53	154.23	158.78	0.000948	2.68	0.28
Serpis	-1030.*	PF 5	905.94	147.85	160.24	154.23	160.38	0.000454	2.08	0.2
Serpis	-1030.*	PF 6	905.94	147.85	162.12	154.23	162.2	0.000224	1.63	0.15
Serpis	-1030.*	PF 7	905.94	147.85	164.07	154.23	164.12	0.000119	1.31	0.11
Serpis	-1030.*	PF 8	905.94	147.85	166.04	154.23	166.07	0.000068	1.07	0.08
Serpis	-1040.*	T1000	905.94	147.73	156.83	154.14	157.29	0.002112	3.49	0.41
Serpis	-1040.*	PF 2	905.94	147.73	156.82	154.14	157.28	0.002119	3.5	0.41
Serpis	-1040.*	PF 3	905.94	147.73	157.25	154.14	157.64	0.001682	3.23	0.37
Serpis	-1040.*	PF 4	905.94	147.73	158.53	154.14	158.77	0.000895	2.61	0.28
Serpis	-1040.*	PF 5	905.94	147.73	160.24	154.14	160.38	0.000431	2.04	0.2
Serpis	-1040.*	PF 6	905.94	147.73	162.12	154.14	162.2	0.000214	1.6	0.14

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1040.*	PF 7	905.94	147.73	164.06	154.14	164.11	0.000114	1.28	0.11
Serpis	-1040.*	PF 8	905.94	147.73	166.04	154.14	166.07	0.000065	1.05	0.08
Serpis	-1050.*	T1000	905.94	147.61	156.82	154.05	157.26	0.00198	3.39	0.4
Serpis	-1050.*	PF 2	905.94	147.61	156.82	154.05	157.26	0.001986	3.4	0.4
Serpis	-1050.*	PF 3	905.94	147.61	157.24	154.05	157.62	0.001576	3.14	0.36
Serpis	-1050.*	PF 4	905.94	147.61	158.52	154.05	158.76	0.000841	2.54	0.27
Serpis	-1050.*	PF 5	905.94	147.61	160.24	154.05	160.37	0.000406	1.98	0.19
Serpis	-1050.*	PF 6	905.94	147.61	162.12	154.05	162.19	0.000202	1.56	0.14
Serpis	-1050.*	PF 7	905.94	147.61	164.06	154.05	164.11	0.000108	1.25	0.1
Serpis	-1050.*	PF 8	905.94	147.61	166.04	154.05	166.07	0.000062	1.03	0.08
Serpis	-1060.*	T1000	905.94	147.49	156.81	153.97	157.24	0.001872	3.31	0.39
Serpis	-1060.*	PF 2	905.94	147.49	156.81	153.97	157.23	0.001878	3.31	0.39
Serpis	-1060.*	PF 3	905.94	147.49	157.24	153.97	157.6	0.001491	3.07	0.35
Serpis	-1060.*	PF 4	905.94	147.49	158.52	153.97	158.75	0.000796	2.48	0.26
Serpis	-1060.*	PF 5	905.94	147.49	160.24	153.97	160.36	0.000386	1.94	0.19
Serpis	-1060.*	PF 6	905.94	147.49	162.12	153.97	162.19	0.000193	1.53	0.14
Serpis	-1060.*	PF 7	905.94	147.49	164.06	153.97	164.11	0.000103	1.23	0.1
Serpis	-1060.*	PF 8	905.94	147.49	166.04	153.97	166.07	0.000059	1.01	0.08
Serpis	-1070.*	T1000	905.94	147.36	156.81	153.88	157.21	0.001772	3.22	0.38
Serpis	-1070.*	PF 2	905.94	147.36	156.8	153.88	157.21	0.001778	3.23	0.38
Serpis	-1070.*	PF 3	905.94	147.36	157.23	153.88	157.58	0.001412	2.99	0.34
Serpis	-1070.*	PF 4	905.94	147.36	158.52	153.88	158.73	0.000756	2.42	0.26
Serpis	-1070.*	PF 5	905.94	147.36	160.23	153.88	160.36	0.000367	1.89	0.18
Serpis	-1070.*	PF 6	905.94	147.36	162.12	153.88	162.19	0.000185	1.49	0.13

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1070.*	PF 7	905.94	147.36	164.06	153.88	164.11	0.000099	1.2	0.1
Serpis	-1070.*	PF 8	905.94	147.36	166.04	153.88	166.07	0.000057	0.99	0.08
Serpis	-1080.*	T1000	905.94	147.24	156.8	153.79	157.19	0.001681	3.14	0.37
Serpis	-1080.*	PF 2	905.94	147.24	156.79	153.79	157.18	0.001686	3.15	0.37
Serpis	-1080.*	PF 3	905.94	147.24	157.23	153.79	157.56	0.001339	2.91	0.33
Serpis	-1080.*	PF 4	905.94	147.24	158.52	153.79	158.72	0.000718	2.36	0.25
Serpis	-1080.*	PF 5	905.94	147.24	160.23	153.79	160.35	0.00035	1.85	0.18
Serpis	-1080.*	PF 6	905.94	147.24	162.11	153.79	162.19	0.000177	1.46	0.13
Serpis	-1080.*	PF 7	905.94	147.24	164.06	153.79	164.11	0.000095	1.18	0.1
Serpis	-1080.*	PF 8	905.94	147.24	166.04	153.79	166.07	0.000054	0.97	0.08
Serpis	-1090	T1000	905.94	147.12	156.79	153.69	157.17	0.001596	3.06	0.36
Serpis	-1090	PF 2	905.94	147.12	156.79	153.69	157.16	0.001601	3.07	0.36
Serpis	-1090	PF 3	905.94	147.12	157.22	153.69	157.54	0.001272	2.84	0.32
Serpis	-1090	PF 4	905.94	147.12	158.52	153.69	158.71	0.000683	2.3	0.24
Serpis	-1090	PF 5	905.94	147.12	160.23	153.69	160.35	0.000334	1.81	0.18
Serpis	-1090	PF 6	905.94	147.12	162.11	153.69	162.18	0.000169	1.43	0.13
Serpis	-1090	PF 7	905.94	147.12	164.06	153.69	164.11	0.000091	1.16	0.1
Serpis	-1090	PF 8	905.94	147.12	166.04	153.69	166.07	0.000052	0.95	0.07
Serpis	-1100.*	T1000	905.94	146.9	156.77	153.64	157.15	0.001577	3.09	0.36
Serpis	-1100.*	PF 2	905.94	146.9	156.76	153.64	157.15	0.001581	3.09	0.36
Serpis	-1100.*	PF 3	905.94	146.9	157.21	153.64	157.53	0.001257	2.86	0.32
Serpis	-1100.*	PF 4	905.94	146.9	158.5	153.64	158.71	0.000678	2.32	0.24
Serpis	-1100.*	PF 5	905.94	146.9	160.23	153.64	160.35	0.000333	1.82	0.18
Serpis	-1100.*	PF 6	905.94	146.9	162.11	153.64	162.18	0.000169	1.44	0.13

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1100.*	PF 7	905.94	146.9	164.06	153.64	164.11	0.000091	1.17	0.1
Serpis	-1100.*	PF 8	905.94	146.9	166.04	153.64	166.07	0.000053	0.96	0.07
Serpis	-1110.*	T1000	905.94	146.69	156.75	153.58	157.13	0.001558	3.1	0.36
Serpis	-1110.*	PF 2	905.94	146.69	156.74	153.58	157.13	0.001563	3.11	0.36
Serpis	-1110.*	PF 3	905.94	146.69	157.19	153.58	157.51	0.001243	2.88	0.32
Serpis	-1110.*	PF 4	905.94	146.69	158.49	153.58	158.7	0.000673	2.34	0.24
Serpis	-1110.*	PF 5	905.94	146.69	160.22	153.58	160.34	0.000332	1.84	0.18
Serpis	-1110.*	PF 6	905.94	146.69	162.11	153.58	162.18	0.000168	1.45	0.13
Serpis	-1110.*	PF 7	905.94	146.69	164.06	153.58	164.1	0.000092	1.17	0.1
Serpis	-1110.*	PF 8	905.94	146.69	166.04	153.58	166.07	0.000053	0.97	0.08
Serpis	-1120.*	T1000	905.94	146.47	156.73	153.52	157.12	0.001541	3.12	0.36
Serpis	-1120.*	PF 2	905.94	146.47	156.72	153.52	157.11	0.001545	3.12	0.36
Serpis	-1120.*	PF 3	905.94	146.47	157.17	153.52	157.5	0.00123	2.89	0.32
Serpis	-1120.*	PF 4	905.94	146.47	158.48	153.52	158.69	0.000668	2.35	0.24
Serpis	-1120.*	PF 5	905.94	146.47	160.22	153.52	160.34	0.000331	1.85	0.18
Serpis	-1120.*	PF 6	905.94	146.47	162.11	153.52	162.18	0.000168	1.46	0.13
Serpis	-1120.*	PF 7	905.94	146.47	164.06	153.52	164.1	0.000092	1.18	0.1
Serpis	-1120.*	PF 8	905.94	146.47	166.03	153.52	166.06	0.000053	0.98	0.08
Serpis	-1130	T1000	905.94	146.25	156.71	153.44	157.1	0.001524	3.13	0.35
Serpis	-1130	PF 2	905.94	146.25	156.7	153.44	157.1	0.001528	3.13	0.35
Serpis	-1130	PF 3	905.94	146.25	157.15	153.44	157.49	0.001218	2.9	0.32
Serpis	-1130	PF 4	905.94	146.25	158.47	153.44	158.69	0.000664	2.36	0.24
Serpis	-1130	PF 5	905.94	146.25	160.21	153.44	160.34	0.00033	1.86	0.18
Serpis	-1130	PF 6	905.94	146.25	162.1	153.44	162.18	0.000169	1.47	0.13

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1130	PF 7	905.94	146.25	164.06	153.44	164.1	0.000092	1.19	0.1
Serpis	-1130	PF 8	905.94	146.25	166.03	153.44	166.06	0.000054	0.99	0.08
Serpis	-1140.*	T1000	905.94	146.15	156.65	153.5	157.08	0.001663	3.28	0.37
Serpis	-1140.*	PF 2	905.94	146.15	156.65	153.5	157.08	0.001668	3.29	0.37
Serpis	-1140.*	PF 3	905.94	146.15	157.11	153.5	157.47	0.001323	3.04	0.33
Serpis	-1140.*	PF 4	905.94	146.15	158.45	153.5	158.68	0.000717	2.47	0.25
Serpis	-1140.*	PF 5	905.94	146.15	160.2	153.5	160.33	0.000357	1.94	0.18
Serpis	-1140.*	PF 6	905.94	146.15	162.1	153.5	162.17	0.000183	1.54	0.13
Serpis	-1140.*	PF 7	905.94	146.15	164.05	153.5	164.1	0.0001	1.24	0.1
Serpis	-1140.*	PF 8	905.94	146.15	166.03	153.5	166.06	0.000058	1.03	0.08
Serpis	-1150.*	T1000	905.94	146.05	156.6	153.57	157.06	0.001809	3.44	0.38
Serpis	-1150.*	PF 2	905.94	146.05	156.59	153.57	157.05	0.001815	3.44	0.38
Serpis	-1150.*	PF 3	905.94	146.05	157.07	153.57	157.45	0.001432	3.17	0.34
Serpis	-1150.*	PF 4	905.94	146.05	158.43	153.57	158.67	0.000771	2.57	0.26
Serpis	-1150.*	PF 5	905.94	146.05	160.19	153.57	160.33	0.000382	2.01	0.19
Serpis	-1150.*	PF 6	905.94	146.05	162.09	153.57	162.17	0.000196	1.59	0.14
Serpis	-1150.*	PF 7	905.94	146.05	164.05	153.57	164.1	0.000107	1.29	0.1
Serpis	-1150.*	PF 8	905.94	146.05	166.03	153.57	166.06	0.000063	1.07	0.08
Serpis	-1160.*	T1000	905.94	145.95	156.55	153.63	157.04	0.001952	3.57	0.4
Serpis	-1160.*	PF 2	905.94	145.95	156.54	153.63	157.03	0.001959	3.58	0.4
Serpis	-1160.*	PF 3	905.94	145.95	157.03	153.63	157.44	0.001535	3.29	0.36
Serpis	-1160.*	PF 4	905.94	145.95	158.41	153.63	158.66	0.000821	2.65	0.27
Serpis	-1160.*	PF 5	905.94	145.95	160.18	153.63	160.32	0.000405	2.07	0.19
Serpis	-1160.*	PF 6	905.94	145.95	162.09	153.63	162.17	0.000207	1.64	0.14

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1160.*	PF 7	905.94	145.95	164.05	153.63	164.1	0.000113	1.32	0.11
Serpis	-1160.*	PF 8	905.94	145.95	166.03	153.63	166.06	0.000066	1.09	0.08
Serpis	-1170.*	T1000	905.94	145.85	156.51	153.7	157.01	0.002106	3.7	0.41
Serpis	-1170.*	PF 2	905.94	145.85	156.5	153.7	157.01	0.002113	3.71	0.41
Serpis	-1170.*	PF 3	905.94	145.85	157	153.7	157.42	0.001646	3.4	0.36
Serpis	-1170.*	PF 4	905.94	145.85	158.4	153.7	158.65	0.000872	2.73	0.27
Serpis	-1170.*	PF 5	905.94	145.85	160.17	153.7	160.32	0.000428	2.13	0.2
Serpis	-1170.*	PF 6	905.94	145.85	162.09	153.7	162.17	0.000218	1.68	0.14
Serpis	-1170.*	PF 7	905.94	145.85	164.05	153.7	164.1	0.000119	1.35	0.11
Serpis	-1170.*	PF 8	905.94	145.85	166.03	153.7	166.06	0.000069	1.12	0.08
Serpis	-1180	T1000	905.94	145.75	156.47	153.76	156.99	0.002253	3.81	0.42
Serpis	-1180	PF 2	905.94	145.75	156.47	153.76	156.98	0.002261	3.82	0.42
Serpis	-1180	PF 3	905.94	145.75	156.98	153.76	157.4	0.00175	3.49	0.37
Serpis	-1180	PF 4	905.94	145.75	158.39	153.76	158.64	0.000918	2.79	0.28
Serpis	-1180	PF 5	905.94	145.75	160.17	153.76	160.31	0.000449	2.17	0.2
Serpis	-1180	PF 6	905.94	145.75	162.08	153.76	162.17	0.000228	1.7	0.14
Serpis	-1180	PF 7	905.94	145.75	164.05	153.76	164.1	0.000125	1.37	0.11
Serpis	-1180	PF 8	905.94	145.75	166.03	153.76	166.06	0.000073	1.13	0.09
Serpis	-1190.*	T1000	905.94	145.75	156.45	153.69	156.96	0.002189	3.78	0.41
Serpis	-1190.*	PF 2	905.94	145.75	156.45	153.69	156.96	0.002197	3.79	0.41
Serpis	-1190.*	PF 3	905.94	145.75	156.96	153.69	157.38	0.001698	3.46	0.37
Serpis	-1190.*	PF 4	905.94	145.75	158.38	153.69	158.63	0.000891	2.76	0.27
Serpis	-1190.*	PF 5	905.94	145.75	160.17	153.69	160.31	0.000437	2.15	0.2
Serpis	-1190.*	PF 6	905.94	145.75	162.08	153.69	162.16	0.000222	1.69	0.14

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1190.*	PF 7	905.94	145.75	164.05	153.69	164.09	0.000122	1.36	0.11
Serpis	-1190.*	PF 8	905.94	145.75	166.03	153.69	166.06	0.000071	1.13	0.08
Serpis	-1200.*	T1000	905.94	145.75	156.44	153.62	156.94	0.002128	3.75	0.41
Serpis	-1200.*	PF 2	905.94	145.75	156.43	153.62	156.94	0.002135	3.76	0.41
Serpis	-1200.*	PF 3	905.94	145.75	156.95	153.62	157.36	0.001649	3.43	0.36
Serpis	-1200.*	PF 4	905.94	145.75	158.37	153.62	158.62	0.000865	2.74	0.27
Serpis	-1200.*	PF 5	905.94	145.75	160.16	153.62	160.3	0.000425	2.14	0.19
Serpis	-1200.*	PF 6	905.94	145.75	162.08	153.62	162.16	0.000217	1.68	0.14
Serpis	-1200.*	PF 7	905.94	145.75	164.04	153.62	164.09	0.000119	1.36	0.11
Serpis	-1200.*	PF 8	905.94	145.75	166.03	153.62	166.06	0.000069	1.12	0.08
Serpis	-1210.*	T1000	905.94	145.75	156.42	153.56	156.92	0.002069	3.72	0.41
Serpis	-1210.*	PF 2	905.94	145.75	156.41	153.56	156.91	0.002076	3.72	0.41
Serpis	-1210.*	PF 3	905.94	145.75	156.94	153.56	157.34	0.001602	3.4	0.36
Serpis	-1210.*	PF 4	905.94	145.75	158.37	153.56	158.61	0.00084	2.72	0.27
Serpis	-1210.*	PF 5	905.94	145.75	160.16	153.56	160.3	0.000414	2.12	0.19
Serpis	-1210.*	PF 6	905.94	145.75	162.08	153.56	162.16	0.000211	1.67	0.14
Serpis	-1210.*	PF 7	905.94	145.75	164.04	153.56	164.09	0.000116	1.35	0.11
Serpis	-1210.*	PF 8	905.94	145.75	166.03	153.56	166.06	0.000068	1.11	0.08
Serpis	-1220.*	T1000	905.94	145.75	156.4	153.51	156.9	0.002011	3.69	0.4
Serpis	-1220.*	PF 2	905.94	145.75	156.4	153.51	156.89	0.002019	3.69	0.4
Serpis	-1220.*	PF 3	905.94	145.75	156.92	153.51	157.33	0.001556	3.37	0.36
Serpis	-1220.*	PF 4	905.94	145.75	158.36	153.51	158.6	0.000816	2.69	0.27
Serpis	-1220.*	PF 5	905.94	145.75	160.16	153.51	160.29	0.000402	2.1	0.19
Serpis	-1220.*	PF 6	905.94	145.75	162.08	153.51	162.16	0.000205	1.65	0.14

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1220.*	PF 7	905.94	145.75	164.04	153.51	164.09	0.000113	1.34	0.11
Serpis	-1220.*	PF 8	905.94	145.75	166.03	153.51	166.06	0.000066	1.11	0.08
Serpis	-1230.*	T1000	905.94	145.75	156.39	153.45	156.87	0.001956	3.65	0.4
Serpis	-1230.*	PF 2	905.94	145.75	156.38	153.45	156.87	0.001963	3.66	0.4
Serpis	-1230.*	PF 3	905.94	145.75	156.91	153.45	157.31	0.001512	3.34	0.35
Serpis	-1230.*	PF 4	905.94	145.75	158.35	153.45	158.59	0.000793	2.67	0.26
Serpis	-1230.*	PF 5	905.94	145.75	160.15	153.45	160.29	0.000391	2.08	0.19
Serpis	-1230.*	PF 6	905.94	145.75	162.08	153.45	162.15	0.0002	1.64	0.14
Serpis	-1230.*	PF 7	905.94	145.75	164.04	153.45	164.09	0.00011	1.33	0.11
Serpis	-1230.*	PF 8	905.94	145.75	166.03	153.45	166.06	0.000065	1.1	0.08
Serpis	-1240.*	T1000	905.94	145.75	156.37	153.4	156.85	0.001903	3.62	0.39
Serpis	-1240.*	PF 2	905.94	145.75	156.36	153.4	156.85	0.001909	3.62	0.39
Serpis	-1240.*	PF 3	905.94	145.75	156.9	153.4	157.29	0.001469	3.31	0.35
Serpis	-1240.*	PF 4	905.94	145.75	158.35	153.4	158.58	0.00077	2.64	0.26
Serpis	-1240.*	PF 5	905.94	145.75	160.15	153.4	160.28	0.00038	2.06	0.19
Serpis	-1240.*	PF 6	905.94	145.75	162.07	153.4	162.15	0.000195	1.63	0.14
Serpis	-1240.*	PF 7	905.94	145.75	164.04	153.4	164.09	0.000107	1.31	0.1
Serpis	-1240.*	PF 8	905.94	145.75	166.02	153.4	166.06	0.000063	1.09	0.08
Serpis	-1250.*	T1000	905.94	145.75	156.36	153.34	156.83	0.001851	3.59	0.39
Serpis	-1250.*	PF 2	905.94	145.75	156.35	153.34	156.82	0.001858	3.59	0.39
Serpis	-1250.*	PF 3	905.94	145.75	156.89	153.34	157.28	0.001428	3.28	0.35
Serpis	-1250.*	PF 4	905.94	145.75	158.34	153.34	158.57	0.000748	2.62	0.26
Serpis	-1250.*	PF 5	905.94	145.75	160.15	153.34	160.28	0.00037	2.04	0.19
Serpis	-1250.*	PF 6	905.94	145.75	162.07	153.34	162.15	0.000189	1.61	0.14

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1250.*	PF 7	905.94	145.75	164.04	153.34	164.09	0.000105	1.3	0.1
Serpis	-1250.*	PF 8	905.94	145.75	166.02	153.34	166.05	0.000062	1.08	0.08
Serpis	-1260	T1000	905.94	145.75	156.34	153.28	156.81	0.0018	3.55	0.39
Serpis	-1260	PF 2	905.94	145.75	156.34	153.28	156.8	0.001807	3.56	0.39
Serpis	-1260	PF 3	905.94	145.75	156.88	153.28	157.26	0.001388	3.24	0.34
Serpis	-1260	PF 4	905.94	145.75	158.34	153.28	158.56	0.000727	2.59	0.25
Serpis	-1260	PF 5	905.94	145.75	160.15	153.28	160.28	0.000359	2.02	0.18
Serpis	-1260	PF 6	905.94	145.75	162.07	153.28	162.15	0.000184	1.59	0.13
Serpis	-1260	PF 7	905.94	145.75	164.04	153.28	164.09	0.000102	1.29	0.1
Serpis	-1260	PF 8	905.94	145.75	166.02	153.28	166.05	0.00006	1.07	0.08
Serpis	-1270.*	T1000	905.94	145.79	156.33	153.2	156.79	0.001756	3.51	0.38
Serpis	-1270.*	PF 2	905.94	145.79	156.32	153.2	156.78	0.001762	3.52	0.38
Serpis	-1270.*	PF 3	905.94	145.79	156.87	153.2	157.24	0.001354	3.21	0.34
Serpis	-1270.*	PF 4	905.94	145.79	158.33	153.2	158.56	0.000711	2.57	0.25
Serpis	-1270.*	PF 5	905.94	145.79	160.14	153.2	160.27	0.000353	2.01	0.18
Serpis	-1270.*	PF 6	905.94	145.79	162.07	153.2	162.14	0.000183	1.59	0.13
Serpis	-1270.*	PF 7	905.94	145.79	164.04	153.2	164.08	0.000102	1.29	0.1
Serpis	-1270.*	PF 8	905.94	145.79	166.02	153.2	166.05	0.00006	1.08	0.08
Serpis	-1280.*	T1000	905.94	145.83	156.32	153.13	156.77	0.00171	3.47	0.38
Serpis	-1280.*	PF 2	905.94	145.83	156.31	153.13	156.76	0.001716	3.48	0.38
Serpis	-1280.*	PF 3	905.94	145.83	156.86	153.13	157.23	0.001319	3.18	0.34
Serpis	-1280.*	PF 4	905.94	145.83	158.33	153.13	158.55	0.000694	2.55	0.25
Serpis	-1280.*	PF 5	905.94	145.83	160.14	153.13	160.27	0.000346	2	0.18
Serpis	-1280.*	PF 6	905.94	145.83	162.07	153.13	162.14	0.000181	1.59	0.13

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1280.*	PF 7	905.94	145.83	164.04	153.13	164.08	0.000101	1.29	0.1
Serpis	-1280.*	PF 8	905.94	145.83	166.02	153.13	166.05	0.00006	1.08	0.08
Serpis	-1290.*	T1000	905.94	145.87	156.3	153.06	156.75	0.001666	3.43	0.37
Serpis	-1290.*	PF 2	905.94	145.87	156.3	153.06	156.74	0.001672	3.44	0.37
Serpis	-1290.*	PF 3	905.94	145.87	156.85	153.06	157.21	0.001286	3.14	0.33
Serpis	-1290.*	PF 4	905.94	145.87	158.32	153.06	158.54	0.000679	2.52	0.25
Serpis	-1290.*	PF 5	905.94	145.87	160.14	153.06	160.26	0.00034	1.98	0.18
Serpis	-1290.*	PF 6	905.94	145.87	162.06	153.06	162.14	0.000179	1.59	0.13
Serpis	-1290.*	PF 7	905.94	145.87	164.03	153.06	164.08	0.000101	1.29	0.1
Serpis	-1290.*	PF 8	905.94	145.87	166.02	153.06	166.05	0.00006	1.08	0.08
Serpis	-1300.*	T1000	905.94	145.91	156.29	152.98	156.73	0.001619	3.39	0.37
Serpis	-1300.*	PF 2	905.94	145.91	156.28	152.98	156.72	0.001625	3.39	0.37
Serpis	-1300.*	PF 3	905.94	145.91	156.84	152.98	157.2	0.00125	3.1	0.33
Serpis	-1300.*	PF 4	905.94	145.91	158.32	152.98	158.53	0.000662	2.5	0.24
Serpis	-1300.*	PF 5	905.94	145.91	160.13	152.98	160.26	0.000333	1.97	0.18
Serpis	-1300.*	PF 6	905.94	145.91	162.06	152.98	162.14	0.000176	1.58	0.13
Serpis	-1300.*	PF 7	905.94	145.91	164.03	152.98	164.08	0.000099	1.29	0.1
Serpis	-1300.*	PF 8	905.94	145.91	166.02	152.98	166.05	0.000059	1.08	0.08
Serpis	-1310.*	T1000	905.94	145.96	156.28	152.91	156.71	0.001573	3.34	0.37
Serpis	-1310.*	PF 2	905.94	145.96	156.27	152.91	156.7	0.001579	3.35	0.37
Serpis	-1310.*	PF 3	905.94	145.96	156.83	152.91	157.18	0.001215	3.06	0.32
Serpis	-1310.*	PF 4	905.94	145.96	158.31	152.91	158.53	0.000645	2.47	0.24
Serpis	-1310.*	PF 5	905.94	145.96	160.13	152.91	160.26	0.000326	1.95	0.18
Serpis	-1310.*	PF 6	905.94	145.96	162.06	152.91	162.14	0.000173	1.57	0.13

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1310.*	PF 7	905.94	145.96	164.03	152.91	164.08	0.000098	1.28	0.1
Serpis	-1310.*	PF 8	905.94	145.96	166.02	152.91	166.05	0.000059	1.07	0.08
Serpis	-1320.*	T1000	905.94	146	156.27	152.84	156.69	0.001527	3.3	0.36
Serpis	-1320.*	PF 2	905.94	146	156.26	152.84	156.69	0.001533	3.3	0.36
Serpis	-1320.*	PF 3	905.94	146	156.82	152.84	157.17	0.00118	3.02	0.32
Serpis	-1320.*	PF 4	905.94	146	158.31	152.84	158.52	0.000628	2.44	0.24
Serpis	-1320.*	PF 5	905.94	146	160.13	152.84	160.25	0.000318	1.93	0.18
Serpis	-1320.*	PF 6	905.94	146	162.06	152.84	162.14	0.00017	1.55	0.13
Serpis	-1320.*	PF 7	905.94	146	164.03	152.84	164.08	0.000097	1.28	0.1
Serpis	-1320.*	PF 8	905.94	146	166.02	152.84	166.05	0.000058	1.07	0.08
Serpis	-1330.*	T1000	905.94	146.04	156.26	152.76	156.67	0.001483	3.25	0.36
Serpis	-1330.*	PF 2	905.94	146.04	156.26	152.76	156.67	0.001489	3.26	0.36
Serpis	-1330.*	PF 3	905.94	146.04	156.82	152.76	157.15	0.001146	2.98	0.32
Serpis	-1330.*	PF 4	905.94	146.04	158.3	152.76	158.51	0.000612	2.41	0.24
Serpis	-1330.*	PF 5	905.94	146.04	160.13	152.76	160.25	0.000311	1.91	0.17
Serpis	-1330.*	PF 6	905.94	146.04	162.06	152.76	162.13	0.000167	1.54	0.13
Serpis	-1330.*	PF 7	905.94	146.04	164.03	152.76	164.08	0.000095	1.27	0.1
Serpis	-1330.*	PF 8	905.94	146.04	166.02	152.76	166.05	0.000057	1.06	0.08
Serpis	-1340.*	T1000	905.94	146.08	156.25	152.68	156.66	0.001439	3.21	0.35
Serpis	-1340.*	PF 2	905.94	146.08	156.25	152.68	156.65	0.001444	3.21	0.35
Serpis	-1340.*	PF 3	905.94	146.08	156.81	152.68	157.14	0.001112	2.94	0.31
Serpis	-1340.*	PF 4	905.94	146.08	158.3	152.68	158.5	0.000595	2.38	0.23
Serpis	-1340.*	PF 5	905.94	146.08	160.12	152.68	160.25	0.000304	1.89	0.17
Serpis	-1340.*	PF 6	905.94	146.08	162.06	152.68	162.13	0.000163	1.53	0.13

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1340.*	PF 7	905.94	146.08	164.03	152.68	164.08	0.000093	1.26	0.1
Serpis	-1340.*	PF 8	905.94	146.08	166.02	152.68	166.05	0.000056	1.06	0.08
Serpis	-1350	T1000	905.94	146.12	156.25	152.62	156.64	0.001396	3.16	0.35
Serpis	-1350	PF 2	905.94	146.12	156.24	152.62	156.63	0.001401	3.17	0.35
Serpis	-1350	PF 3	905.94	146.12	156.8	152.62	157.13	0.001079	2.9	0.31
Serpis	-1350	PF 4	905.94	146.12	158.3	152.62	158.5	0.000578	2.35	0.23
Serpis	-1350	PF 5	905.94	146.12	160.12	152.62	160.24	0.000297	1.87	0.17
Serpis	-1350	PF 6	905.94	146.12	162.05	152.62	162.13	0.00016	1.51	0.13
Serpis	-1350	PF 7	905.94	146.12	164.03	152.62	164.08	0.000092	1.25	0.1
Serpis	-1350	PF 8	905.94	146.12	166.02	152.62	166.05	0.000056	1.05	0.08
Serpis	-1360.*	T1000	905.94	146.19	156.21	152.71	156.62	0.001473	3.24	0.36
Serpis	-1360.*	PF 2	905.94	146.19	156.21	152.71	156.61	0.001478	3.25	0.36
Serpis	-1360.*	PF 3	905.94	146.19	156.78	152.71	157.11	0.001132	2.97	0.32
Serpis	-1360.*	PF 4	905.94	146.19	158.28	152.71	158.49	0.0006	2.4	0.24
Serpis	-1360.*	PF 5	905.94	146.19	160.12	152.71	160.24	0.000306	1.9	0.17
Serpis	-1360.*	PF 6	905.94	146.19	162.05	152.71	162.13	0.000164	1.54	0.13
Serpis	-1360.*	PF 7	905.94	146.19	164.03	152.71	164.08	0.000094	1.27	0.1
Serpis	-1360.*	PF 8	905.94	146.19	166.01	152.71	166.05	0.000057	1.07	0.08
Serpis	-1370.*	T1000	905.94	146.26	156.18	152.78	156.6	0.001557	3.33	0.37
Serpis	-1370.*	PF 2	905.94	146.26	156.17	152.78	156.6	0.001563	3.33	0.37
Serpis	-1370.*	PF 3	905.94	146.26	156.75	152.78	157.1	0.00119	3.04	0.32
Serpis	-1370.*	PF 4	905.94	146.26	158.27	152.78	158.48	0.000624	2.44	0.24
Serpis	-1370.*	PF 5	905.94	146.26	160.11	152.78	160.24	0.000315	1.93	0.18
Serpis	-1370.*	PF 6	905.94	146.26	162.05	152.78	162.13	0.000169	1.56	0.13

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1370.*	PF 7	905.94	146.26	164.02	152.78	164.07	0.000096	1.28	0.1
Serpis	-1370.*	PF 8	905.94	146.26	166.01	152.78	166.05	0.000059	1.08	0.08
Serpis	-1380.*	T1000	905.94	146.33	156.14	152.85	156.58	0.001648	3.42	0.38
Serpis	-1380.*	PF 2	905.94	146.33	156.13	152.85	156.58	0.001655	3.42	0.38
Serpis	-1380.*	PF 3	905.94	146.33	156.73	152.85	157.09	0.001251	3.11	0.33
Serpis	-1380.*	PF 4	905.94	146.33	158.26	152.85	158.48	0.000649	2.49	0.25
Serpis	-1380.*	PF 5	905.94	146.33	160.11	152.85	160.23	0.000325	1.96	0.18
Serpis	-1380.*	PF 6	905.94	146.33	162.05	152.85	162.12	0.000173	1.58	0.13
Serpis	-1380.*	PF 7	905.94	146.33	164.02	152.85	164.07	0.000099	1.3	0.1
Serpis	-1380.*	PF 8	905.94	146.33	166.01	152.85	166.05	0.00006	1.09	0.08
Serpis	-1390.*	T1000	905.94	146.4	156.1	152.9	156.56	0.001748	3.51	0.39
Serpis	-1390.*	PF 2	905.94	146.4	156.09	152.9	156.56	0.001755	3.52	0.39
Serpis	-1390.*	PF 3	905.94	146.4	156.7	152.9	157.07	0.001316	3.19	0.34
Serpis	-1390.*	PF 4	905.94	146.4	158.24	152.9	158.47	0.000676	2.54	0.25
Serpis	-1390.*	PF 5	905.94	146.4	160.1	152.9	160.23	0.000335	2	0.18
Serpis	-1390.*	PF 6	905.94	146.4	162.04	152.9	162.12	0.000178	1.6	0.14
Serpis	-1390.*	PF 7	905.94	146.4	164.02	152.9	164.07	0.000101	1.32	0.1
Serpis	-1390.*	PF 8	905.94	146.4	166.01	152.9	166.05	0.000061	1.11	0.08
Serpis	-1400.*	T1000	905.94	146.48	156.06	152.99	156.54	0.001856	3.61	0.4
Serpis	-1400.*	PF 2	905.94	146.48	156.05	152.99	156.54	0.001864	3.62	0.4
Serpis	-1400.*	PF 3	905.94	146.48	156.67	152.99	157.06	0.001386	3.27	0.35
Serpis	-1400.*	PF 4	905.94	146.48	158.23	152.99	158.46	0.000705	2.6	0.26
Serpis	-1400.*	PF 5	905.94	146.48	160.09	152.99	160.23	0.000346	2.03	0.18
Serpis	-1400.*	PF 6	905.94	146.48	162.04	152.99	162.12	0.000183	1.63	0.14

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1400.*	PF 7	905.94	146.48	164.02	152.99	164.07	0.000104	1.34	0.11
Serpis	-1400.*	PF 8	905.94	146.48	166.01	152.99	166.04	0.000063	1.12	0.08
Serpis	-1410.*	T1000	905.94	146.55	156.02	153.07	156.52	0.001975	3.72	0.41
Serpis	-1410.*	PF 2	905.94	146.55	156.01	153.07	156.51	0.001984	3.72	0.41
Serpis	-1410.*	PF 3	905.94	146.55	156.64	153.07	157.04	0.001462	3.36	0.36
Serpis	-1410.*	PF 4	905.94	146.55	158.22	153.07	158.45	0.000735	2.65	0.26
Serpis	-1410.*	PF 5	905.94	146.55	160.09	153.07	160.22	0.000358	2.07	0.19
Serpis	-1410.*	PF 6	905.94	146.55	162.04	153.07	162.12	0.000188	1.65	0.14
Serpis	-1410.*	PF 7	905.94	146.55	164.02	153.07	164.07	0.000107	1.36	0.11
Serpis	-1410.*	PF 8	905.94	146.55	166.01	153.07	166.04	0.000064	1.14	0.08
Serpis	-1420.*	T1000	905.94	146.62	155.97	153.14	156.5	0.002106	3.83	0.43
Serpis	-1420.*	PF 2	905.94	146.62	155.96	153.14	156.49	0.002116	3.83	0.43
Serpis	-1420.*	PF 3	905.94	146.62	156.61	153.14	157.02	0.001543	3.44	0.37
Serpis	-1420.*	PF 4	905.94	146.62	158.2	153.14	158.45	0.000766	2.71	0.27
Serpis	-1420.*	PF 5	905.94	146.62	160.08	153.14	160.22	0.00037	2.1	0.19
Serpis	-1420.*	PF 6	905.94	146.62	162.03	153.14	162.12	0.000193	1.68	0.14
Serpis	-1420.*	PF 7	905.94	146.62	164.02	153.14	164.07	0.000109	1.37	0.11
Serpis	-1420.*	PF 8	905.94	146.62	166.01	153.14	166.04	0.000066	1.15	0.09
Serpis	-1430.*	T1000	905.94	146.69	155.92	153.19	156.47	0.00225	3.95	0.44
Serpis	-1430.*	PF 2	905.94	146.69	155.91	153.19	156.46	0.002261	3.95	0.44
Serpis	-1430.*	PF 3	905.94	146.69	156.57	153.19	157	0.001631	3.54	0.38
Serpis	-1430.*	PF 4	905.94	146.69	158.19	153.19	158.44	0.000799	2.77	0.27
Serpis	-1430.*	PF 5	905.94	146.69	160.08	153.19	160.21	0.000382	2.14	0.19
Serpis	-1430.*	PF 6	905.94	146.69	162.03	153.19	162.11	0.000199	1.7	0.14

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1430.*	PF 7	905.94	146.69	164.02	153.19	164.07	0.000112	1.39	0.11
Serpis	-1430.*	PF 8	905.94	146.69	166.01	153.19	166.04	0.000067	1.17	0.09
Serpis	-1440.*	T1000	905.94	146.76	155.86	153.29	156.44	0.002411	4.07	0.46
Serpis	-1440.*	PF 2	905.94	146.76	155.85	153.29	156.44	0.002423	4.08	0.46
Serpis	-1440.*	PF 3	905.94	146.76	156.54	153.29	156.99	0.001725	3.63	0.39
Serpis	-1440.*	PF 4	905.94	146.76	158.17	153.29	158.43	0.000833	2.83	0.28
Serpis	-1440.*	PF 5	905.94	146.76	160.07	153.29	160.21	0.000396	2.18	0.2
Serpis	-1440.*	PF 6	905.94	146.76	162.03	153.29	162.11	0.000204	1.73	0.15
Serpis	-1440.*	PF 7	905.94	146.76	164.01	153.29	164.07	0.000115	1.41	0.11
Serpis	-1440.*	PF 8	905.94	146.76	166.01	153.29	166.04	0.000069	1.18	0.09
Serpis	-1450.*	T1000	905.94	146.83	155.81	153.35	156.41	0.002589	4.2	0.47
Serpis	-1450.*	PF 2	905.94	146.83	155.8	153.35	156.41	0.002603	4.21	0.47
Serpis	-1450.*	PF 3	905.94	146.83	156.5	153.35	156.97	0.001827	3.73	0.4
Serpis	-1450.*	PF 4	905.94	146.83	158.16	153.35	158.42	0.000869	2.89	0.29
Serpis	-1450.*	PF 5	905.94	146.83	160.06	153.35	160.21	0.000409	2.22	0.2
Serpis	-1450.*	PF 6	905.94	146.83	162.03	153.35	162.11	0.00021	1.75	0.15
Serpis	-1450.*	PF 7	905.94	146.83	164.01	153.35	164.07	0.000118	1.43	0.11
Serpis	-1450.*	PF 8	905.94	146.83	166.01	153.35	166.04	0.000071	1.2	0.09
Serpis	-1460.*	T1000	905.94	146.9	155.74	153.42	156.38	0.002789	4.35	0.49
Serpis	-1460.*	PF 2	905.94	146.9	155.73	153.42	156.38	0.002805	4.36	0.49
Serpis	-1460.*	PF 3	905.94	146.9	156.46	153.42	156.94	0.001938	3.84	0.41
Serpis	-1460.*	PF 4	905.94	146.9	158.14	153.42	158.41	0.000907	2.95	0.29
Serpis	-1460.*	PF 5	905.94	146.9	160.06	153.42	160.2	0.000424	2.26	0.21
Serpis	-1460.*	PF 6	905.94	146.9	162.02	153.42	162.11	0.000216	1.78	0.15

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1460.*	PF 7	905.94	146.9	164.01	153.42	164.06	0.000121	1.45	0.11
Serpis	-1460.*	PF 8	905.94	146.9	166.01	153.42	166.04	0.000072	1.21	0.09
Serpis	-1470.*	T1000	905.94	146.97	155.68	153.49	156.35	0.003015	4.5	0.51
Serpis	-1470.*	PF 2	905.94	146.97	155.67	153.49	156.34	0.003034	4.51	0.51
Serpis	-1470.*	PF 3	905.94	146.97	156.42	153.49	156.92	0.002058	3.95	0.43
Serpis	-1470.*	PF 4	905.94	146.97	158.13	153.49	158.4	0.000946	3.02	0.3
Serpis	-1470.*	PF 5	905.94	146.97	160.05	153.49	160.2	0.000439	2.3	0.21
Serpis	-1470.*	PF 6	905.94	146.97	162.02	153.49	162.11	0.000223	1.81	0.15
Serpis	-1470.*	PF 7	905.94	146.97	164.01	153.49	164.06	0.000124	1.47	0.12
Serpis	-1470.*	PF 8	905.94	146.97	166	153.49	166.04	0.000074	1.23	0.09
Serpis	-1480.*	T1000	905.94	147.04	155.6	153.55	156.31	0.003273	4.67	0.53
Serpis	-1480.*	PF 2	905.94	147.04	155.59	153.55	156.3	0.003295	4.68	0.53
Serpis	-1480.*	PF 3	905.94	147.04	156.38	153.55	156.9	0.002188	4.06	0.44
Serpis	-1480.*	PF 4	905.94	147.04	158.11	153.55	158.39	0.000988	3.08	0.31
Serpis	-1480.*	PF 5	905.94	147.04	160.05	153.55	160.19	0.000455	2.34	0.21
Serpis	-1480.*	PF 6	905.94	147.04	162.02	153.55	162.1	0.000229	1.84	0.16
Serpis	-1480.*	PF 7	905.94	147.04	164.01	153.55	164.06	0.000127	1.49	0.12
Serpis	-1480.*	PF 8	905.94	147.04	166	153.55	166.04	0.000076	1.24	0.09
Serpis	-1490.*	T1000	905.94	147.11	155.53	153.61	156.27	0.003569	4.85	0.55
Serpis	-1490.*	PF 2	905.94	147.11	155.51	153.61	156.26	0.003595	4.86	0.56
Serpis	-1490.*	PF 3	905.94	147.11	156.34	153.61	156.87	0.00233	4.19	0.46
Serpis	-1490.*	PF 4	905.94	147.11	158.1	153.61	158.38	0.001032	3.15	0.31
Serpis	-1490.*	PF 5	905.94	147.11	160.04	153.61	160.19	0.000471	2.39	0.22
Serpis	-1490.*	PF 6	905.94	147.11	162.02	153.61	162.1	0.000236	1.87	0.16

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1490.*	PF 7	905.94	147.11	164.01	153.61	164.06	0.00013	1.51	0.12
Serpis	-1490.*	PF 8	905.94	147.11	166	153.61	166.04	0.000077	1.26	0.09
Serpis	-1500.*	T1000	905.94	147.18	155.44	153.65	156.23	0.003913	5.05	0.58
Serpis	-1500.*	PF 2	905.94	147.18	155.42	153.65	156.22	0.003944	5.06	0.58
Serpis	-1500.*	PF 3	905.94	147.18	156.29	153.65	156.85	0.002483	4.31	0.47
Serpis	-1500.*	PF 4	905.94	147.18	158.08	153.65	158.37	0.001077	3.22	0.32
Serpis	-1500.*	PF 5	905.94	147.18	160.03	153.65	160.18	0.000489	2.44	0.22
Serpis	-1500.*	PF 6	905.94	147.18	162.01	153.65	162.1	0.000243	1.9	0.16
Serpis	-1500.*	PF 7	905.94	147.18	164.01	153.65	164.06	0.000134	1.53	0.12
Serpis	-1500.*	PF 8	905.94	147.18	166	153.65	166.04	0.000079	1.28	0.1
Serpis	-1510.*	T1000	905.94	147.25	155.34	153.7	156.18	0.004319	5.27	0.61
Serpis	-1510.*	PF 2	905.94	147.25	155.33	153.7	156.17	0.004358	5.28	0.61
Serpis	-1510.*	PF 3	905.94	147.25	156.25	153.7	156.82	0.002651	4.45	0.49
Serpis	-1510.*	PF 4	905.94	147.25	158.07	153.7	158.36	0.001125	3.3	0.33
Serpis	-1510.*	PF 5	905.94	147.25	160.03	153.7	160.18	0.000507	2.48	0.23
Serpis	-1510.*	PF 6	905.94	147.25	162.01	153.7	162.1	0.000251	1.93	0.16
Serpis	-1510.*	PF 7	905.94	147.25	164.01	153.7	164.06	0.000137	1.56	0.12
Serpis	-1510.*	PF 8	905.94	147.25	166	153.7	166.04	0.000081	1.29	0.1
Serpis	-1520.*	T1000	905.94	147.33	155.23	153.77	156.13	0.00481	5.52	0.64
Serpis	-1520.*	PF 2	905.94	147.33	155.21	153.77	156.12	0.004859	5.53	0.65
Serpis	-1520.*	PF 3	905.94	147.33	156.2	153.77	156.79	0.002834	4.59	0.5
Serpis	-1520.*	PF 4	905.94	147.33	158.05	153.77	158.34	0.001175	3.37	0.33
Serpis	-1520.*	PF 5	905.94	147.33	160.02	153.77	160.17	0.000527	2.53	0.23
Serpis	-1520.*	PF 6	905.94	147.33	162.01	153.77	162.09	0.000258	1.96	0.17

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1520.*	PF 7	905.94	147.33	164	153.77	164.06	0.000141	1.58	0.12
Serpis	-1520.*	PF 8	905.94	147.33	166	153.77	166.04	0.000083	1.31	0.1
Serpis	-1530.*	T1000	905.94	147.4	155.11	153.81	156.07	0.005417	5.8	0.68
Serpis	-1530.*	PF 2	905.94	147.4	155.09	153.81	156.05	0.005483	5.82	0.68
Serpis	-1530.*	PF 3	905.94	147.4	156.15	153.81	156.76	0.003032	4.74	0.52
Serpis	-1530.*	PF 4	905.94	147.4	158.04	153.81	158.33	0.001228	3.45	0.34
Serpis	-1530.*	PF 5	905.94	147.4	160.02	153.81	160.17	0.000547	2.59	0.24
Serpis	-1530.*	PF 6	905.94	147.4	162.01	153.81	162.09	0.000267	2	0.17
Serpis	-1530.*	PF 7	905.94	147.4	164	153.81	164.05	0.000144	1.6	0.13
Serpis	-1530.*	PF 8	905.94	147.4	166	153.81	166.03	0.000085	1.33	0.1
Serpis	-1540.*	T1000	905.94	147.47	154.95	153.85	155.99	0.006212	6.14	0.73
Serpis	-1540.*	PF 2	905.94	147.47	154.93	153.85	155.98	0.006308	6.17	0.73
Serpis	-1540.*	PF 3	905.94	147.47	156.1	153.85	156.72	0.003248	4.89	0.54
Serpis	-1540.*	PF 4	905.94	147.47	158.03	153.85	158.32	0.001282	3.53	0.35
Serpis	-1540.*	PF 5	905.94	147.47	160.01	153.85	160.16	0.000568	2.64	0.24
Serpis	-1540.*	PF 6	905.94	147.47	162	153.85	162.09	0.000275	2.03	0.17
Serpis	-1540.*	PF 7	905.94	147.47	164	153.85	164.05	0.000148	1.63	0.13
Serpis	-1540.*	PF 8	905.94	147.47	166	153.85	166.03	0.000087	1.34	0.1
Serpis	-1550.*	T1000	905.94	147.54	154.76	153.88	155.91	0.007345	6.57	0.79
Serpis	-1550.*	PF 2	905.94	147.54	154.72	153.88	155.89	0.007513	6.62	0.8
Serpis	-1550.*	PF 3	905.94	147.54	156.05	153.88	156.69	0.003481	5.06	0.56
Serpis	-1550.*	PF 4	905.94	147.54	158.01	153.88	158.31	0.001339	3.61	0.36
Serpis	-1550.*	PF 5	905.94	147.54	160.01	153.88	160.16	0.00059	2.7	0.25
Serpis	-1550.*	PF 6	905.94	147.54	162	153.88	162.08	0.000284	2.07	0.17

Tramo	Sección	Perfil	Q Total (m³/s)	Cota del lecho (m)	Cota lámina de agua (m)	Cota calado crítico (m)	Cota línea de energía (m)	Pendiente motriz (m/m)	Velocidad (m/s)	Nº Froude
Serpis	-1550.*	PF 7	905.94	147.54	164	153.88	164.05	0.000152	1.65	0.13
Serpis	-1550.*	PF 8	905.94	147.54	166	153.88	166.03	0.000088	1.36	0.1
Serpis	-1560	T1000	905.94	147.61	153.91	153.91	155.71	0.013516	8.2	1.05
Serpis	-1560	PF 2	905.94	147.61	154	153.9	155.72	0.012666	8.01	1.02
Serpis	-1560	PF 3	905.94	147.61	156	153.9	156.65	0.003734	5.23	0.58
Serpis	-1560	PF 4	905.94	147.61	158	153.9	158.29	0.001398	3.69	0.37
Serpis	-1560	PF 5	905.94	147.61	160	153.9	160.15	0.000614	2.75	0.25
Serpis	-1560	PF 6	905.94	147.61	162	153.9	162.08	0.000294	2.11	0.18
Serpis	-1560	PF 7	905.94	147.61	164	153.9	164.05	0.000157	1.68	0.13
Serpis	-1560	PF 8	905.94	147.61	166	153.9	166.03	0.00009	1.38	0.1