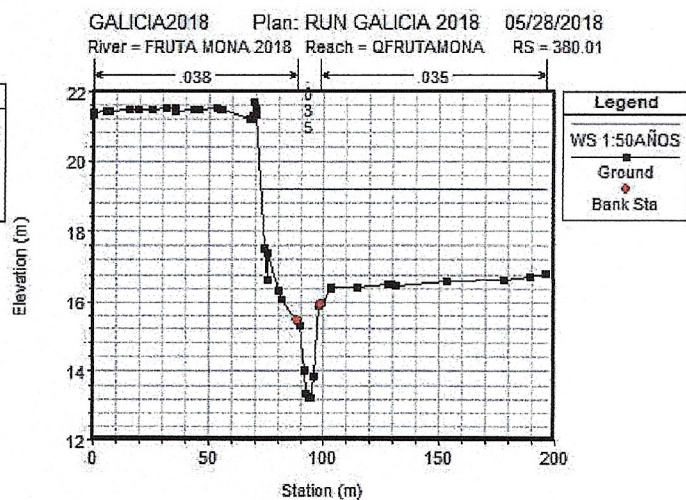
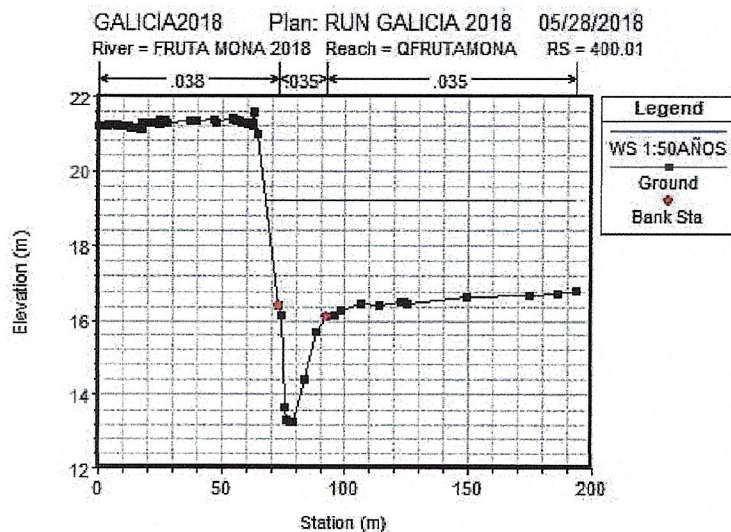
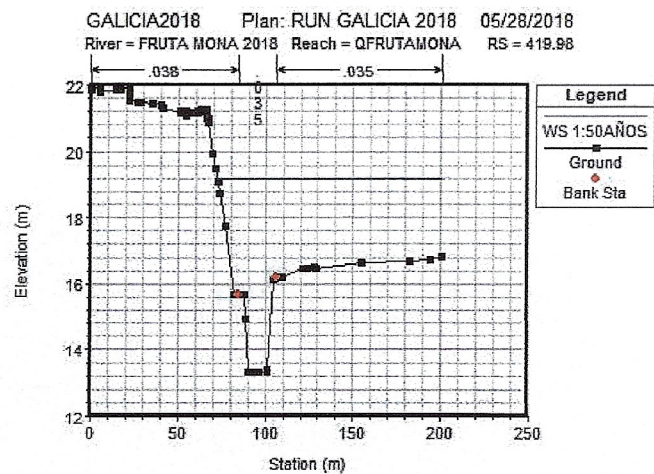
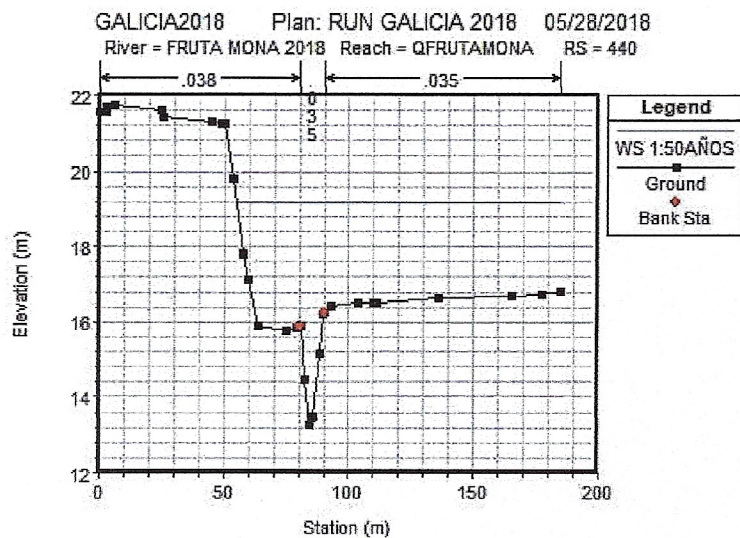
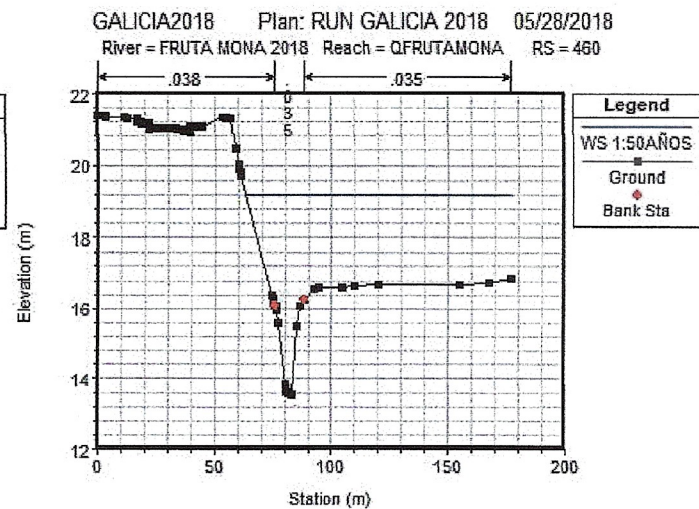
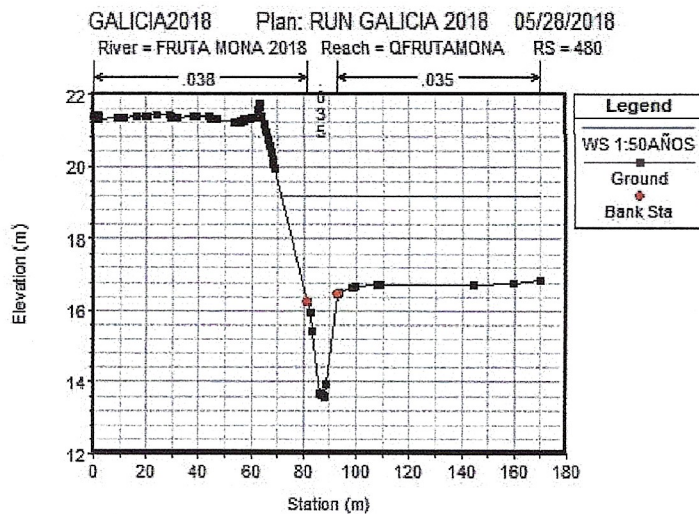
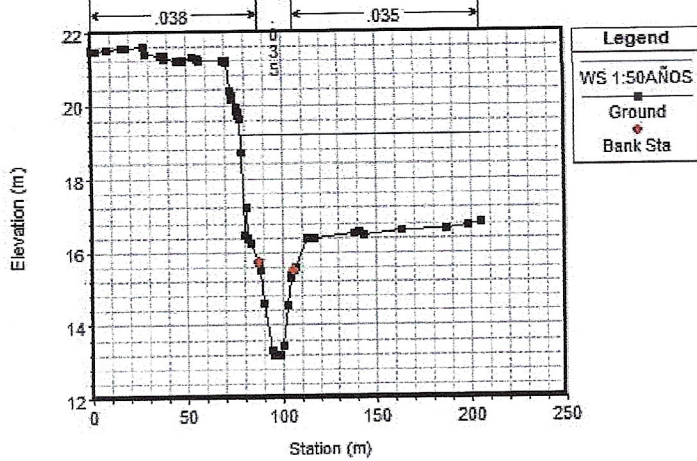
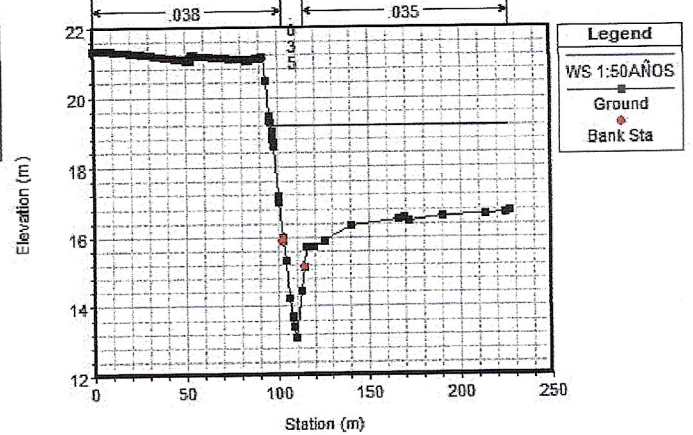




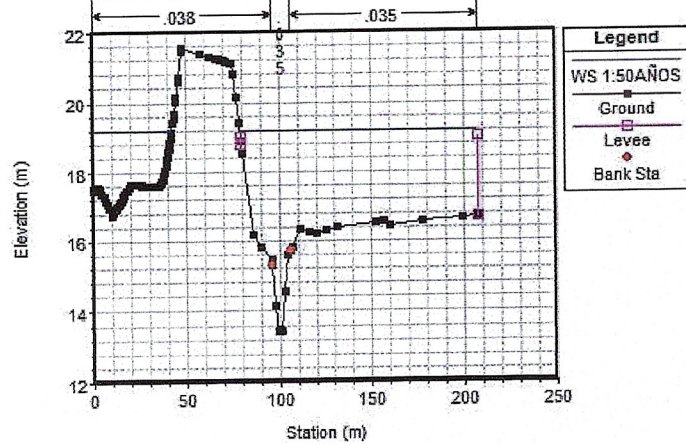
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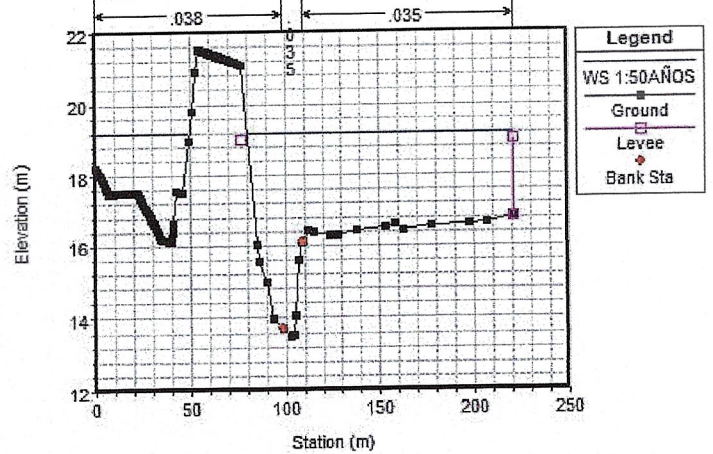
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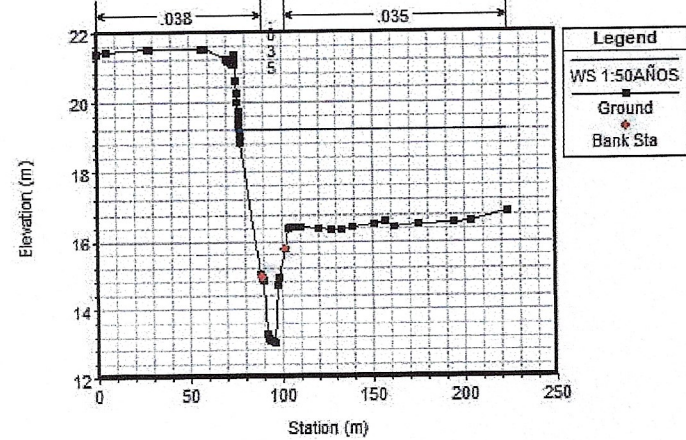
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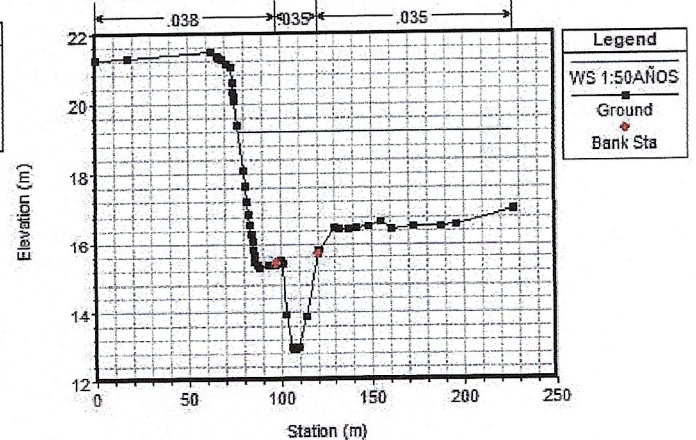
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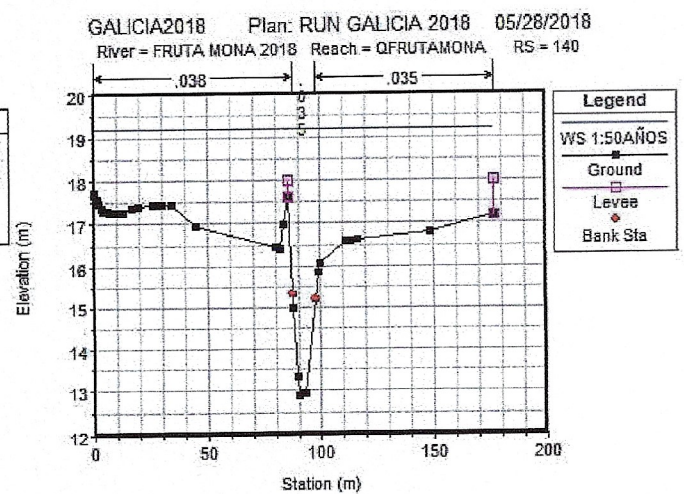
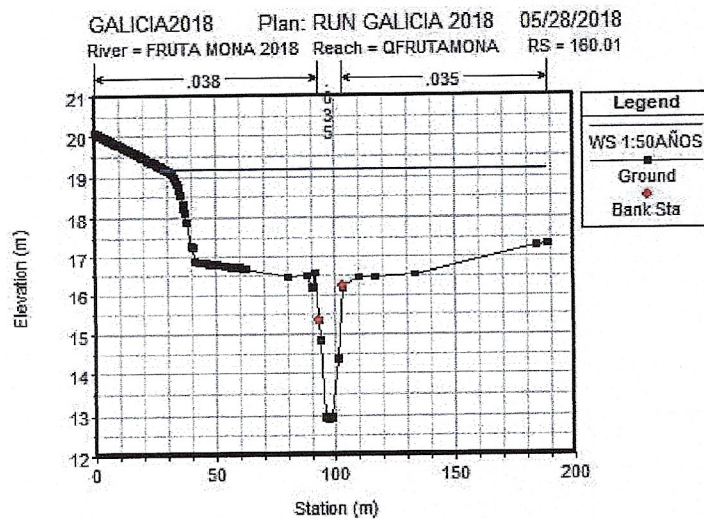
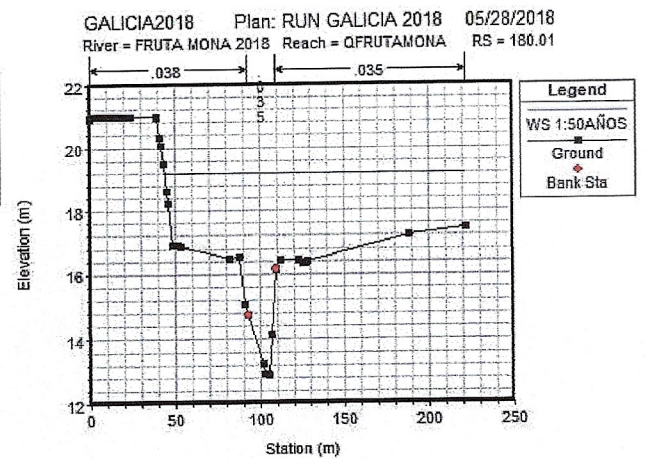
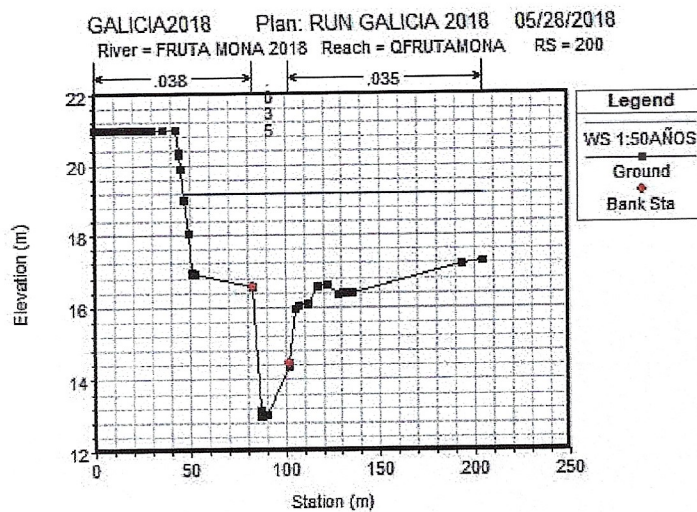
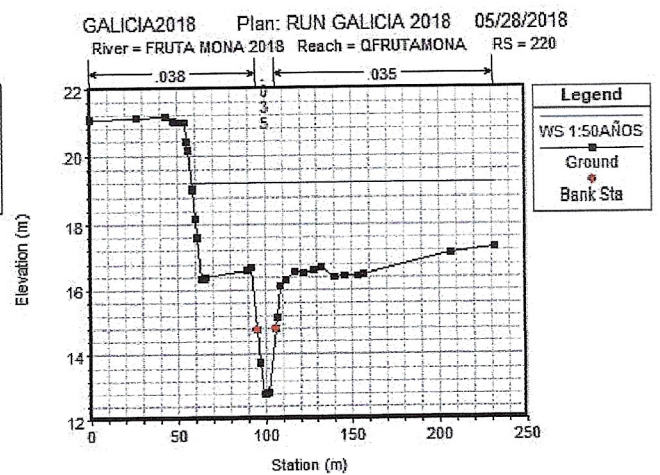
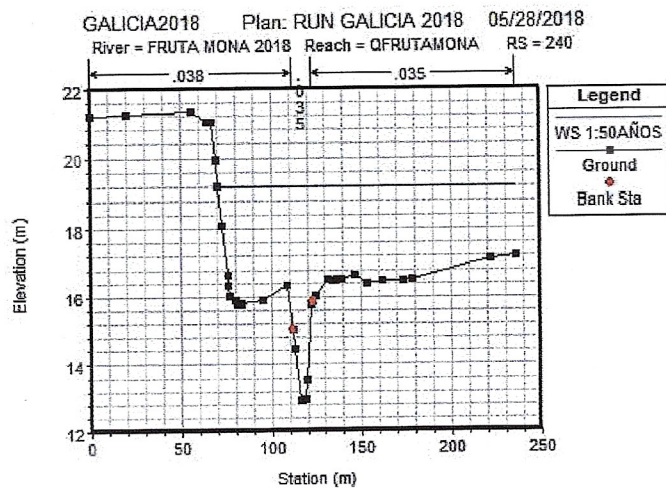


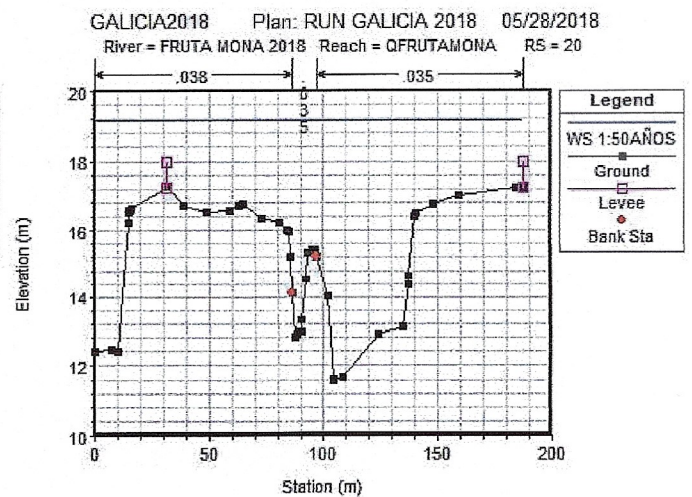
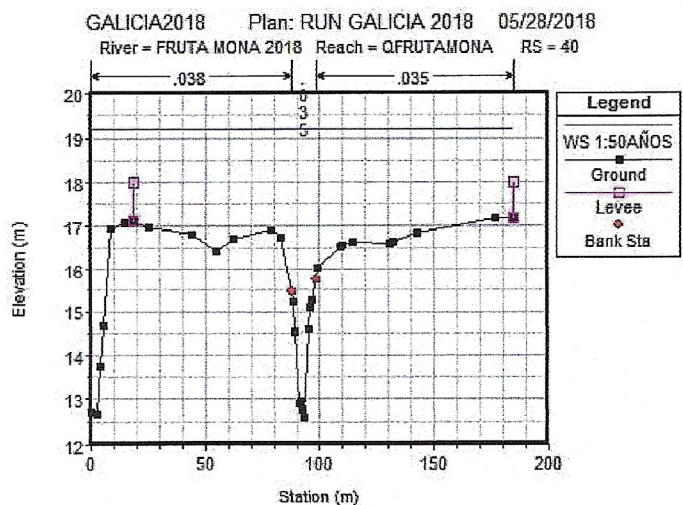
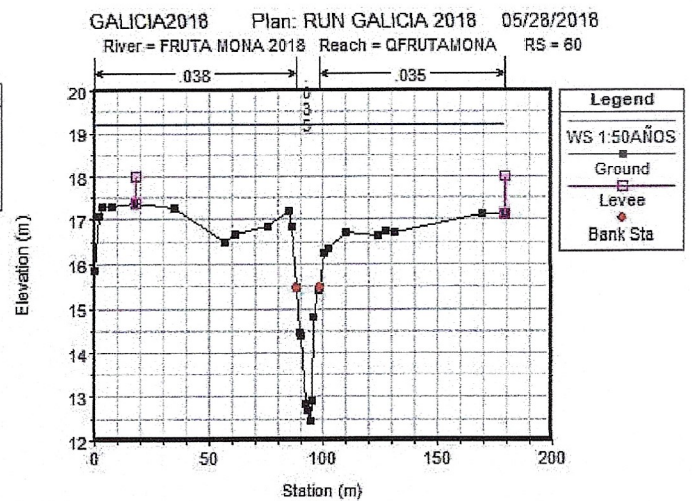
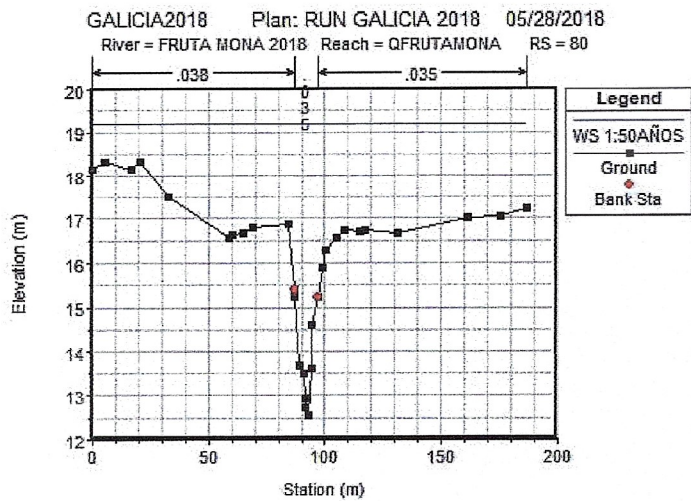
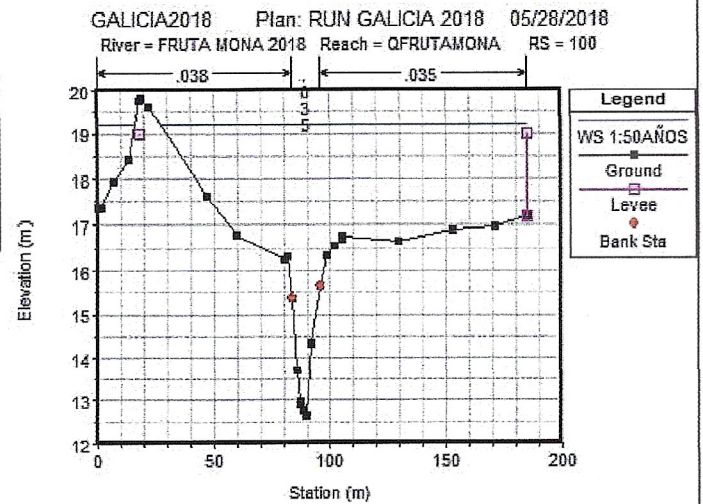
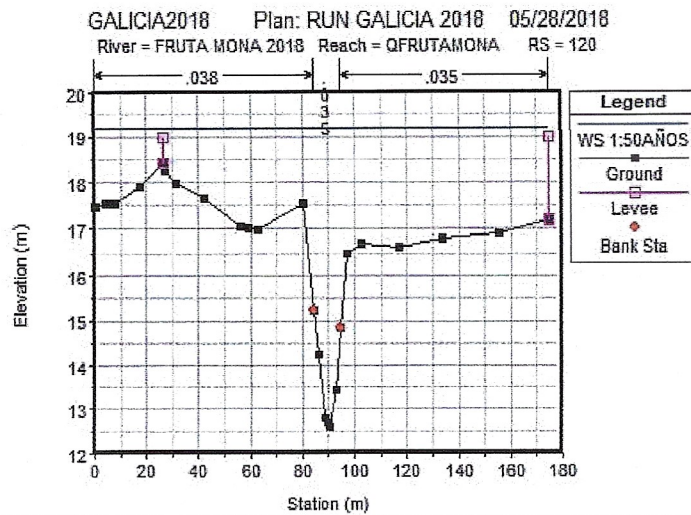
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 River = FRUTA MONA 2018 Reach = QFRUTAMONA RS = 280.01



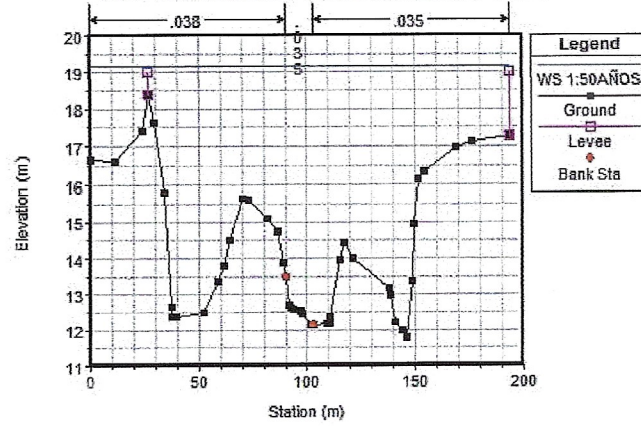
GALICIA2018 Plan: RUN GALICIA 2018 05/28/2018
 River = FRUTA MONA 2018 Reach = QFRUTAMONA RS = 280.01







GALICIA2018 Plan: RUN GALICIA 2018 05/28/2018
River = FRUTA MONA 2018 Reach = QFRUTAMONA RS = 0



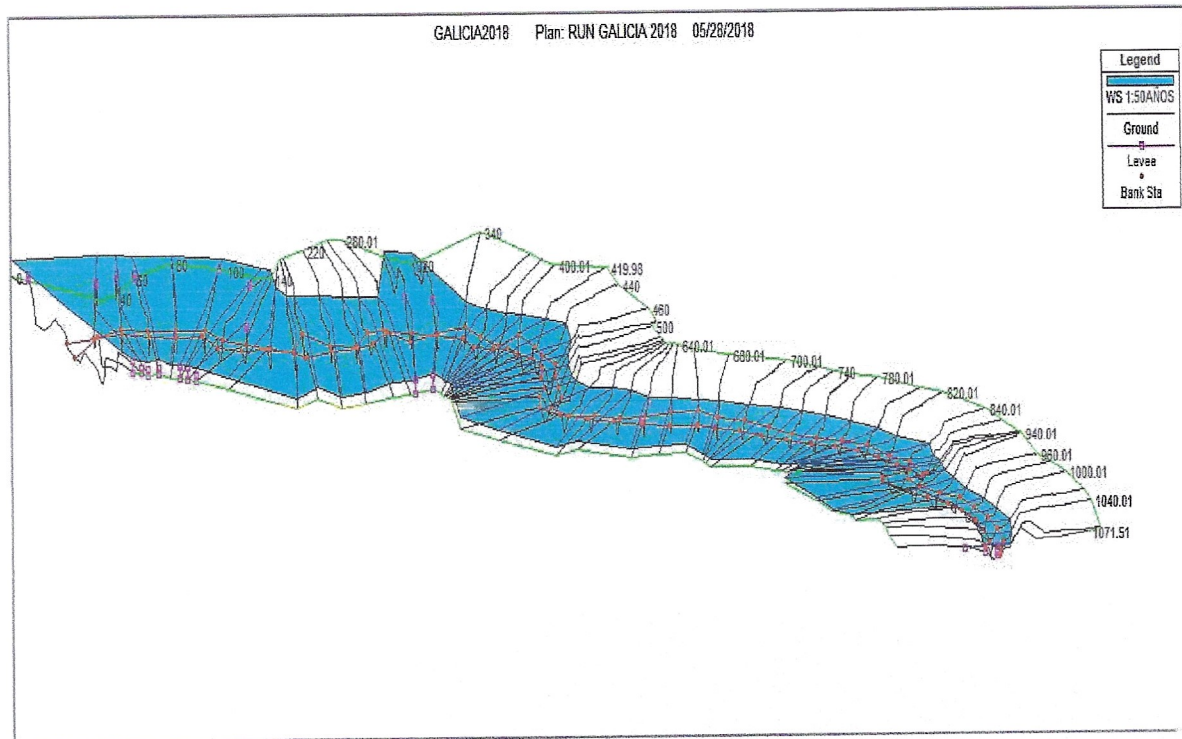
D. QUEBRADA FRUTA MONA

Tabla de Resultados Condiciones Finales 50 Años

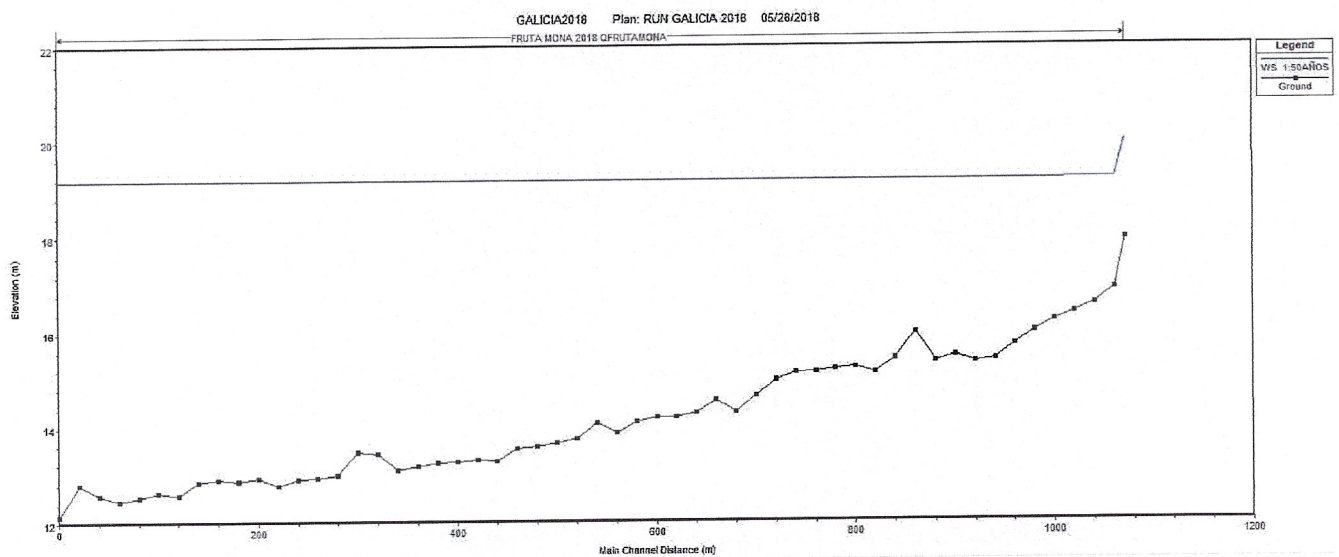
Quebrada Fruta Mona

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Cut W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
QFRUTAMONA	1071.51	1:50AÑOS	15.42	17.94	20.00	20.00	20.13	0.012617	1.62	10.01	28.97	0.78
QFRUTAMONA	1060	1:50AÑOS	15.49	16.92	19.19	18.00	19.21	0.000353	0.69	24.97	19.14	0.17
QFRUTAMONA	1040.01	1:50AÑOS	15.56	16.60	19.19	17.76	19.21	0.000187	0.61	30.15	22.15	0.14
QFRUTAMONA	1020.01	1:50AÑOS	15.63	16.43	19.19	17.56	19.20	0.000163	0.57	33.51	26.22	0.13
QFRUTAMONA	1000.01	1:50AÑOS	15.70	16.25	19.18	17.43	19.20	0.000184	0.59	31.54	23.75	0.13
QFRUTAMONA	980.01	1:50AÑOS	15.77	16.02	19.18	17.41	19.20	0.000251	0.63	29.46	24.29	0.14
QFRUTAMONA	960.01	1:50AÑOS	15.84	15.73	19.18	17.57	19.19	0.000196	0.57	33.39	30.67	0.13
QFRUTAMONA	940.01	1:50AÑOS	15.91	15.43	19.18	16.91	19.18	0.000039	0.30	77.77	85.18	0.06
QFRUTAMONA	920.01	1:50AÑOS	15.99	15.38	19.18	17.13	19.18	0.000023	0.22	108.63	102.57	0.05
QFRUTAMONA	900	1:50AÑOS	16.05	15.51	19.18	16.48	19.18	0.000009	0.15	150.59	116.03	0.03
QFRUTAMONA	880	1:50AÑOS	16.12	15.40	19.18	16.02	19.18	0.000004	0.11	180.02	102.13	0.02
QFRUTAMONA	860.01	1:50AÑOS	16.19	16.01	19.18	17.23	19.18	0.000011	0.17	133.74	95.90	0.03
QFRUTAMONA	840.01	1:50AÑOS	16.25	15.45	19.18	16.96	19.18	0.000011	0.18	130.52	95.83	0.03
QFRUTAMONA	820.01	1:50AÑOS	16.32	15.14	19.18	16.70	19.18	0.000010	0.18	135.83	89.89	0.03
QFRUTAMONA	800.01	1:50AÑOS	16.39	15.26	19.18	16.82	19.18	0.000011	0.18	130.27	91.36	0.03
QFRUTAMONA	780.01	1:50AÑOS	16.46	15.21	19.18	16.70	19.18	0.000009	0.17	141.50	91.22	0.03
QFRUTAMONA	760	1:50AÑOS	16.53	15.16	19.18	16.50	19.18	0.000008	0.16	145.93	89.82	0.03
QFRUTAMONA	740	1:50AÑOS	16.60	15.15	19.18	16.53	19.18	0.000007	0.16	151.26	89.80	0.03
QFRUTAMONA	720.01	1:50AÑOS	16.67	14.99	19.18	16.46	19.18	0.000005	0.14	173.50	102.71	0.02
QFRUTAMONA	700.01	1:50AÑOS	16.74	14.65	19.18	16.33	19.18	0.000005	0.14	166.79	93.51	0.02
QFRUTAMONA	680.01	1:50AÑOS	16.81	14.32	19.18	16.16	19.18	0.000005	0.13	172.46	91.82	0.02
QFRUTAMONA	660.01	1:50AÑOS	16.88	14.57	19.18	15.87	19.18	0.000005	0.14	160.25	77.90	0.02
QFRUTAMONA	640.01	1:50AÑOS	16.95	14.31	19.18	15.74	19.18	0.000004	0.14	173.79	86.51	0.02
QFRUTAMONA	620.01	1:50AÑOS	17.02	14.20	19.18	15.88	19.18	0.000005	0.13	177.13	92.61	0.02
QFRUTAMONA	600.01	1:50AÑOS	17.09	14.20	19.18	15.87	19.18	0.000004	0.12	190.96	94.20	0.02
QFRUTAMONA	580.01	1:50AÑOS	17.16	14.11	19.18	15.79	19.18	0.000003	0.10	226.97	111.48	0.02
QFRUTAMONA	560.01	1:50AÑOS	17.23	13.88	19.18	15.71	19.18	0.000003	0.11	208.58	98.41	0.02
QFRUTAMONA	540.01	1:50AÑOS	17.30	14.09	19.18	15.53	19.18	0.000002	0.09	250.90	105.62	0.01
QFRUTAMONA	520.01	1:50AÑOS	17.37	13.75	19.18	14.74	19.18	0.000002	0.09	241.16	90.35	0.01
QFRUTAMONA	500	1:50AÑOS	17.44	13.66	19.18	15.01	19.18	0.000002	0.10	231.32	89.64	0.02
QFRUTAMONA	480	1:50AÑOS	17.51	13.59	19.18	15.07	19.18	0.000002	0.09	253.40	98.64	0.01
QFRUTAMONA	460	1:50AÑOS	17.58	13.54	19.18	14.95	19.18	0.000001	0.08	294.36	113.34	0.01
QFRUTAMONA	440	1:50AÑOS	17.65	13.27	19.18	14.87	19.18	0.000001	0.06	368.38	130.31	0.01
QFRUTAMONA	419.98	1:50AÑOS	17.72	13.31	19.18	13.94	19.18	0.000001	0.06	378.56	128.79	0.01
QFRUTAMONA	400.01	1:50AÑOS	17.79	13.27	19.18	14.44	19.18	0.000001	0.06	359.26	126.03	0.01
QFRUTAMONA	380.01	1:50AÑOS	17.86	13.24	19.18	14.72	19.18	0.000001	0.07	345.83	123.59	0.01
QFRUTAMONA	360.01	1:50AÑOS	17.93	13.17	19.18	14.13	19.18	0.000001	0.06	378.62	126.51	0.01
QFRUTAMONA	340	1:50AÑOS	18.00	13.10	19.18	14.67	19.18	0.000001	0.06	377.69	130.75	0.01
QFRUTAMONA	320	1:50AÑOS	18.07	13.44	19.18	14.78	19.18	0.000001	0.06	437.54	170.41	0.01
QFRUTAMONA	300	1:50AÑOS	18.14	13.48	19.18	14.36	19.18	0.000000	0.05	513.92	189.99	0.01
QFRUTAMONA	280.01	1:50AÑOS	18.21	12.99	19.18	14.25	19.18	0.000001	0.06	411.92	145.55	0.01
QFRUTAMONA	260.01	1:50AÑOS	18.28	12.93	19.18	13.95	19.18	0.000000	0.05	453.37	149.28	0.01
QFRUTAMONA	240	1:50AÑOS	18.35	12.92	19.18	14.27	19.18	0.000001	0.06	461.41	165.17	0.01
QFRUTAMONA	220	1:50AÑOS	18.42	12.80	19.18	14.06	19.18	0.000001	0.06	463.95	173.49	0.01
QFRUTAMONA	200	1:50AÑOS	18.49	12.94	19.18	13.98	19.18	0.000001	0.06	441.43	156.88	0.01
QFRUTAMONA	180.01	1:50AÑOS	18.56	12.88	19.18	14.10	19.18	0.000001	0.06	465.66	177.55	0.01
QFRUTAMONA	160.01	1:50AÑOS	18.63	12.92	19.18	14.28	19.18	0.000001	0.07	400.35	153.63	0.01
QFRUTAMONA	140	1:50AÑOS	18.70	12.86	19.18	14.20	19.18	0.000001	0.07	436.28	176.61	0.01
QFRUTAMONA	120	1:50AÑOS	18.77	12.58	19.18	14.04	19.18	0.000001	0.08	388.53	174.36	0.01
QFRUTAMONA	100	1:50AÑOS	18.84	12.64	19.18	14.18	19.18	0.000001	0.07	396.96	172.98	0.01
QFRUTAMONA	80	1:50AÑOS	18.91	12.55	19.18	14.36	19.18	0.000001	0.07	424.93	186.69	0.01
QFRUTAMONA	60	1:50AÑOS	18.98	12.47	19.18	14.27	19.18	0.000001	0.07	437.78	179.02	0.01
QFRUTAMONA	40	1:50AÑOS	19.05	12.58	19.18	14.30	19.18	0.000001	0.06	491.70	184.73	0.01
QFRUTAMONA	20	1:50AÑOS	19.12	12.81	19.18	12.49	19.18	0.000000	0.03	695.56	187.21	0.00
QFRUTAMONA	0	1:50AÑOS	19.19	12.15	19.18	12.63	19.18	0.000000	0.03	837.16	193.03	0.00

VISTA EN TRES DIMENSIONES FRUTA MONA



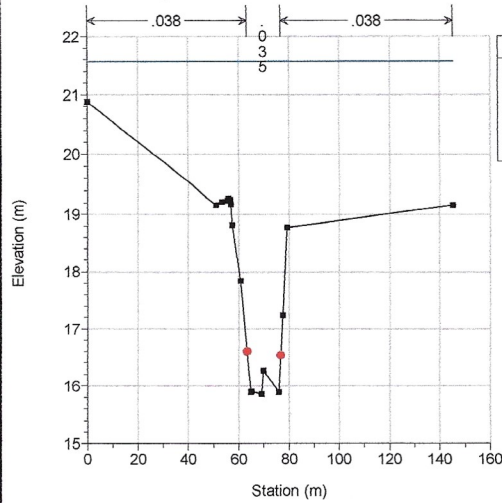
PERFIL DE QUEBRADA FRUTA MONA CONDICIONES FINALES PARA 50 AÑOS



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

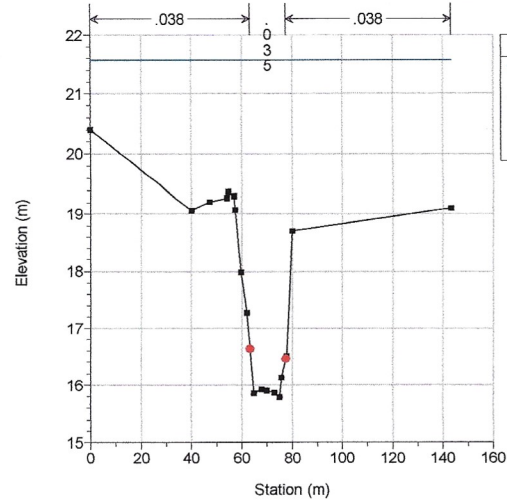
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DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

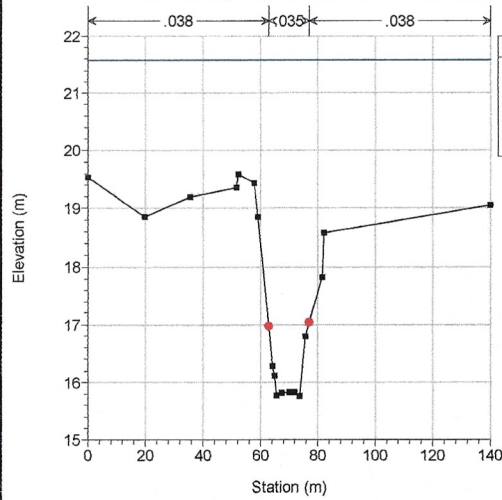
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DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

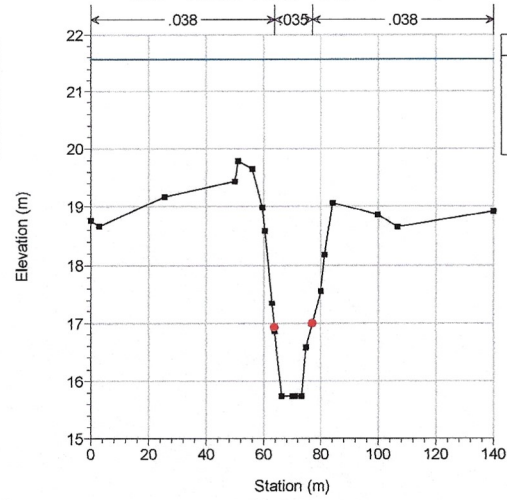
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DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

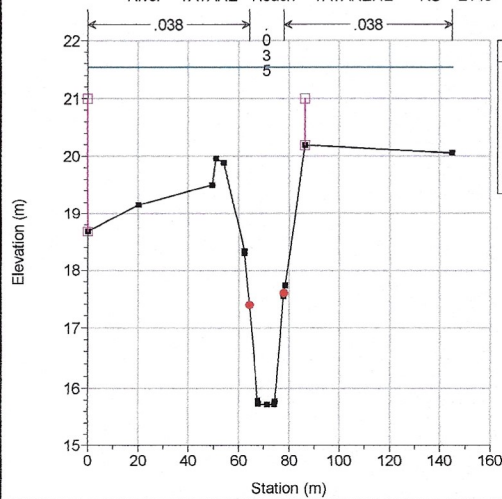
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DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

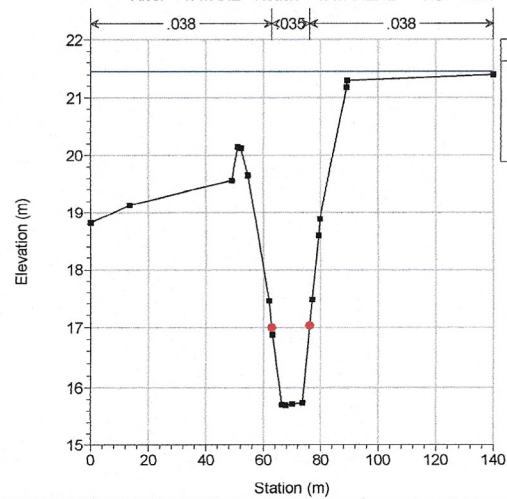
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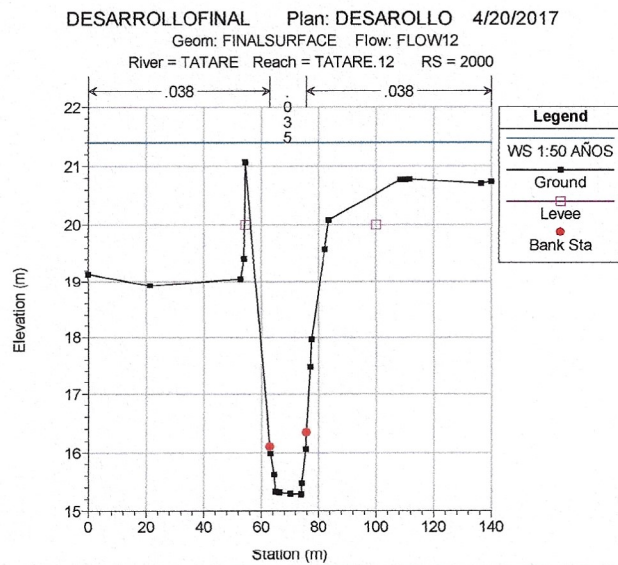
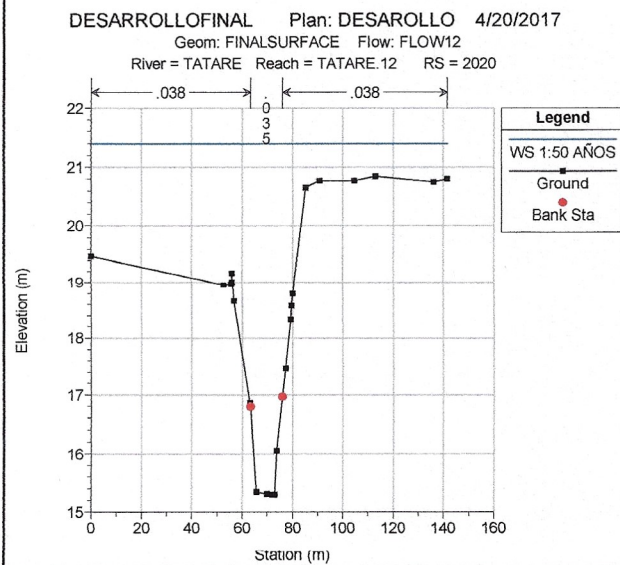
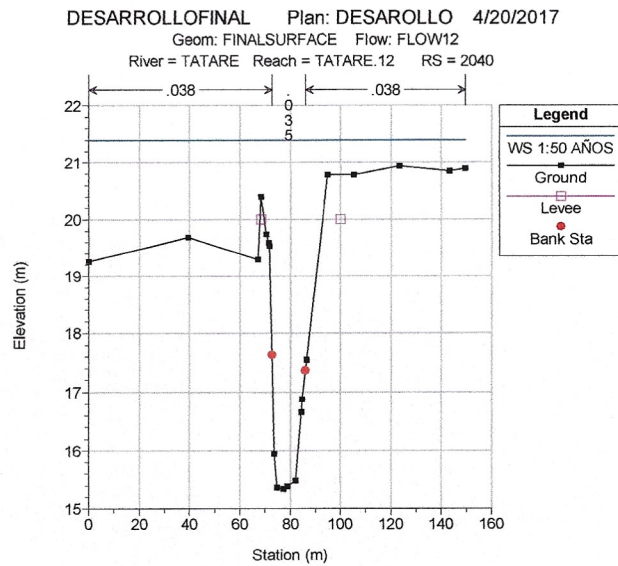
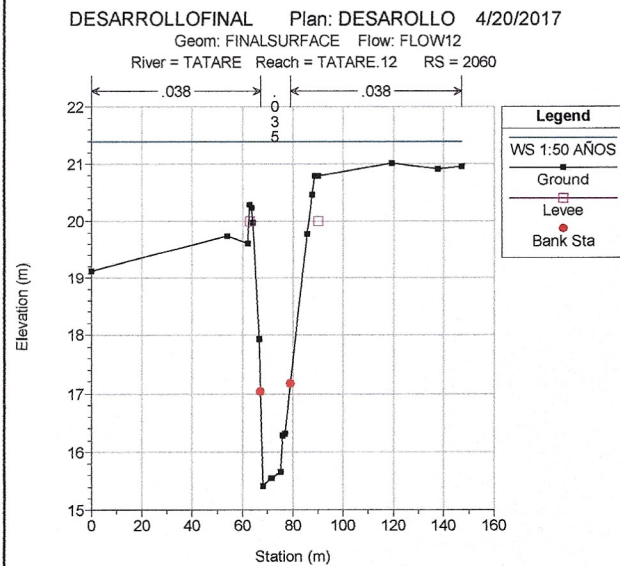
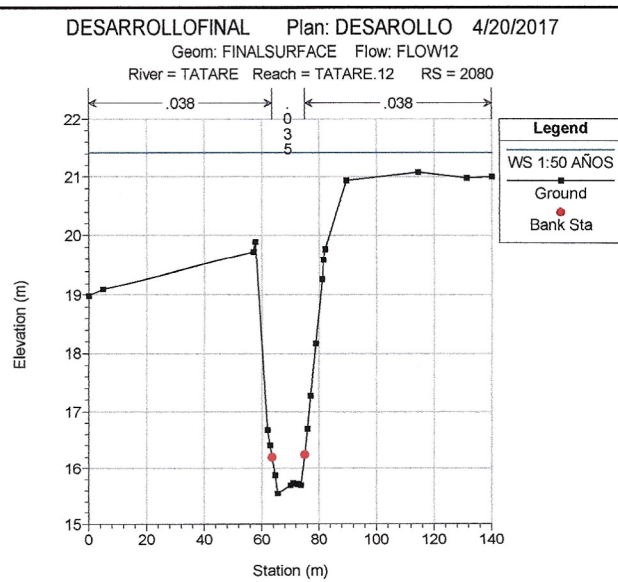
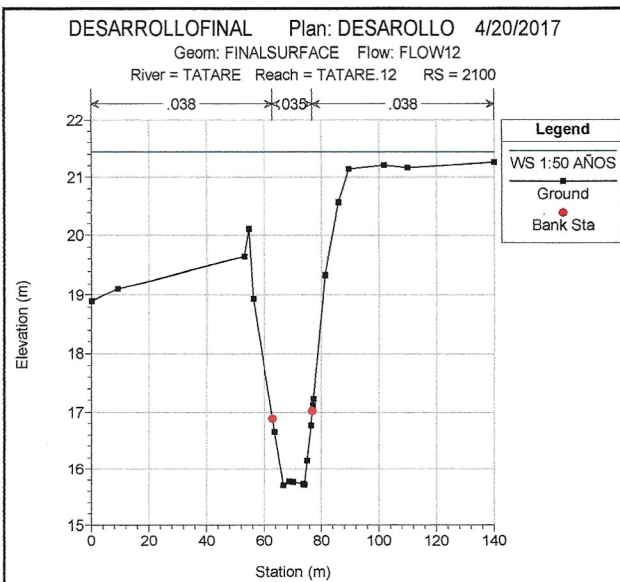


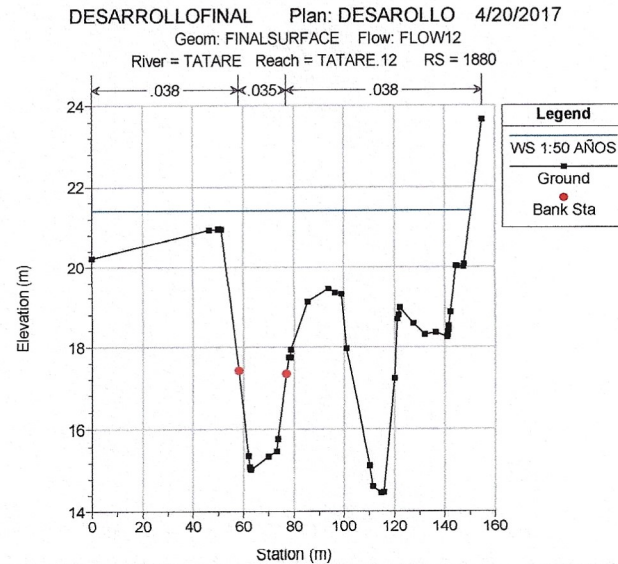
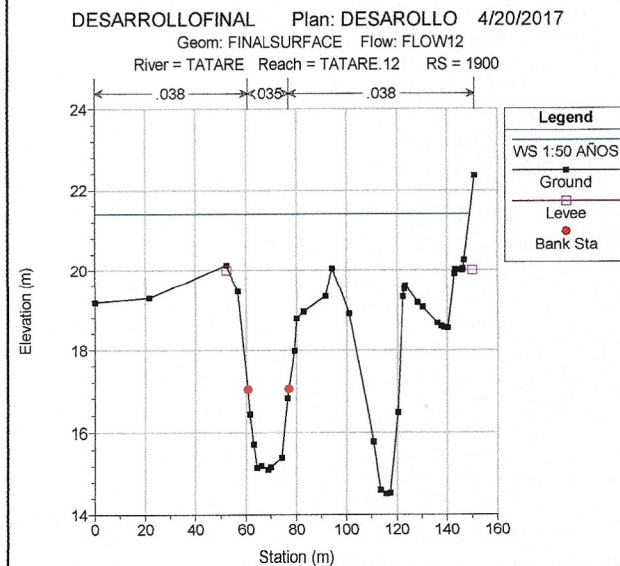
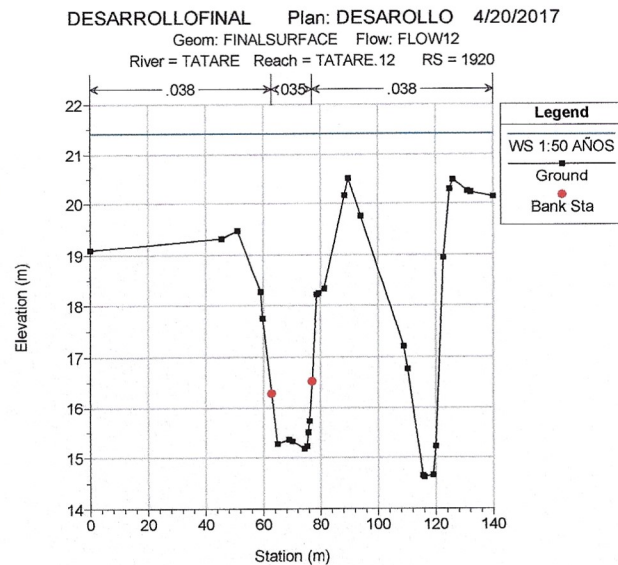
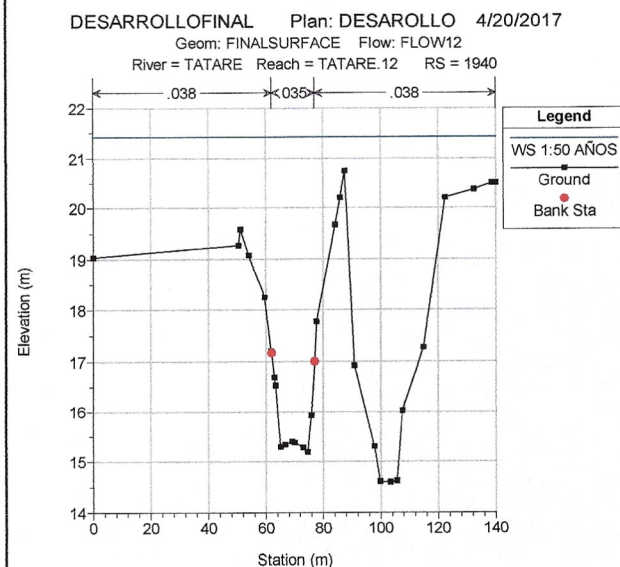
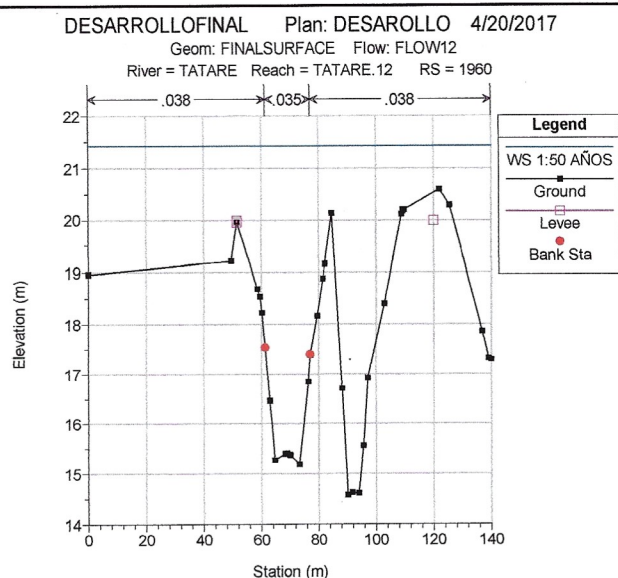
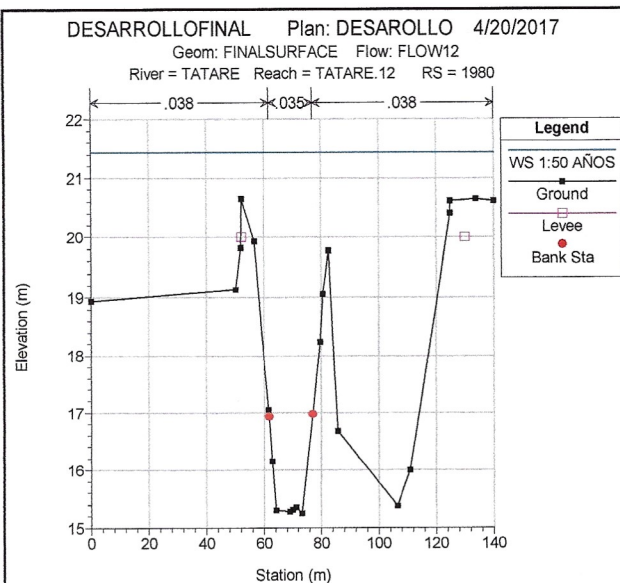
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Geom: FINALSURFACE Flow: FLOW12

River = TATARE Reach = TATARE.12 RS = 2120



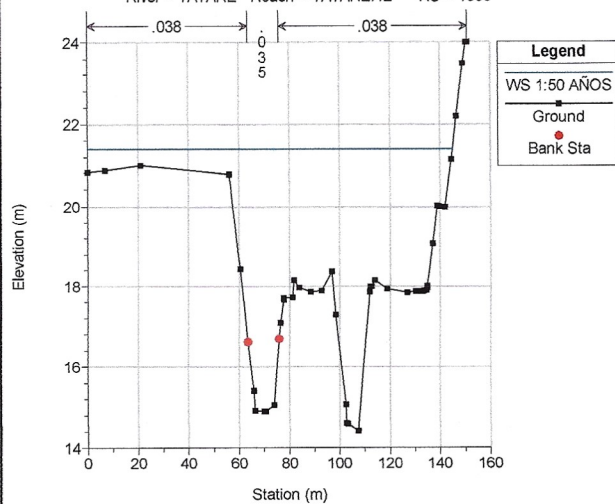




DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

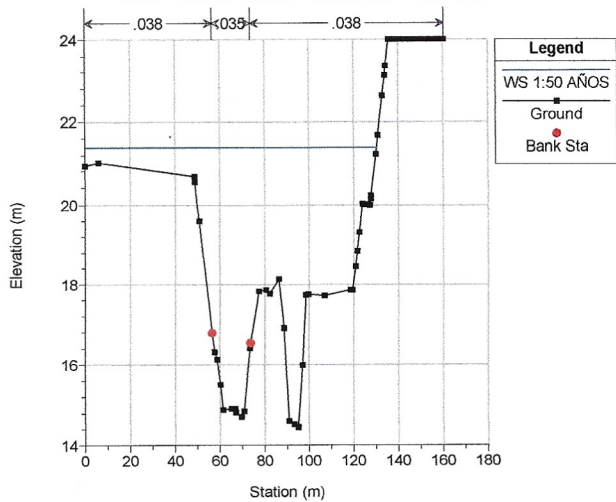
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DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

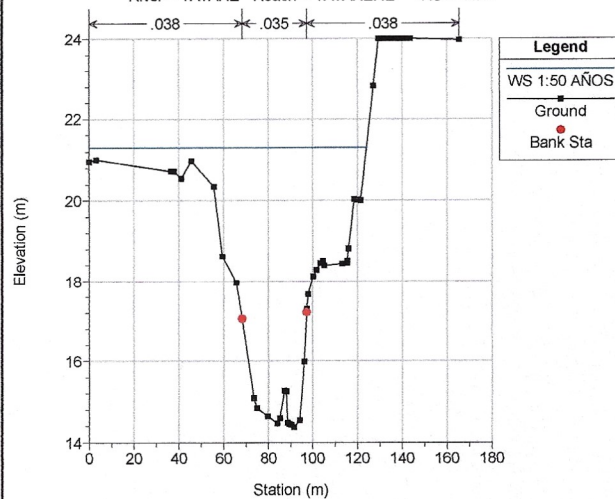
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DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

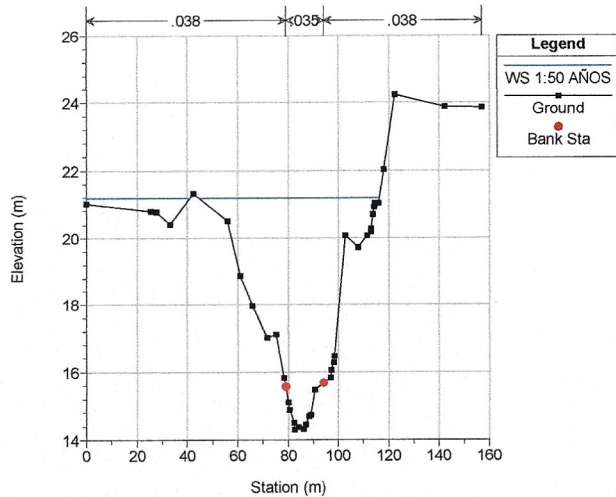
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DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

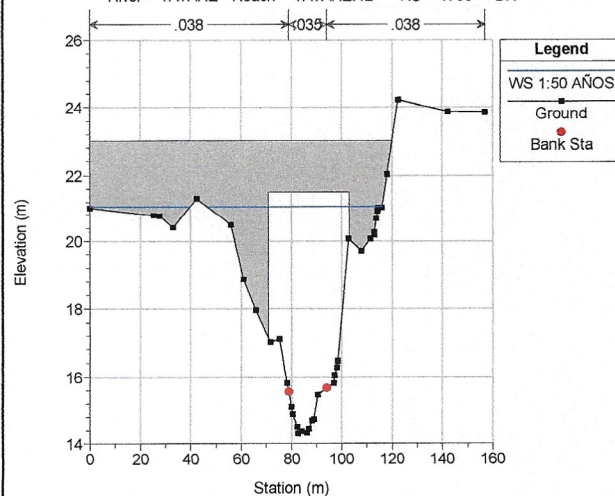
River = TATARE Reach = TATARE.12 RS = 1800



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

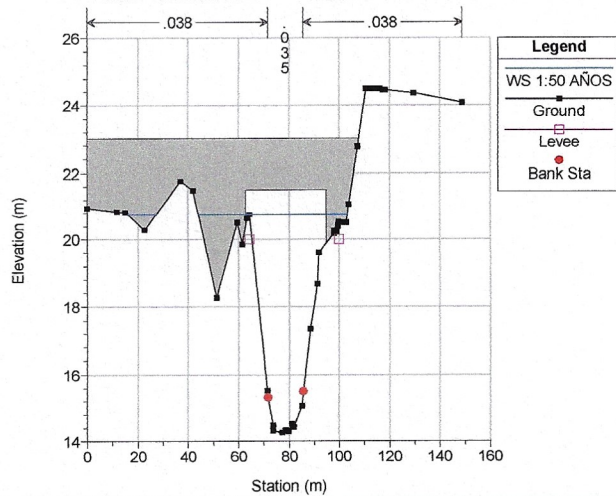
River = TATARE Reach = TATARE.12 RS = 1790 BR



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

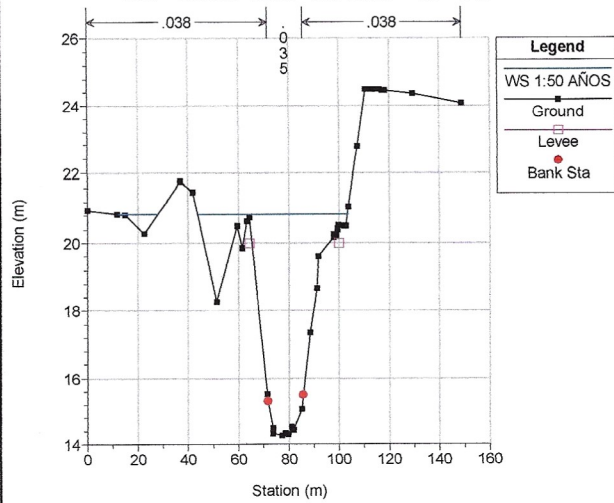
River = TATARE Reach = TATARE.12 RS = 1790 BR



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

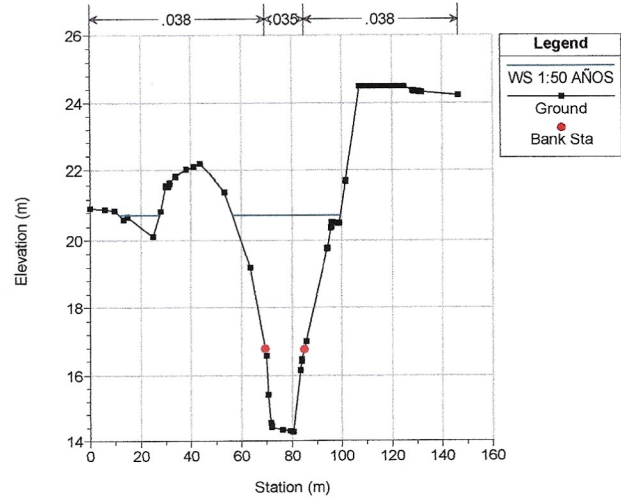
River = TATARE Reach = TATARE.12 RS = 1780



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

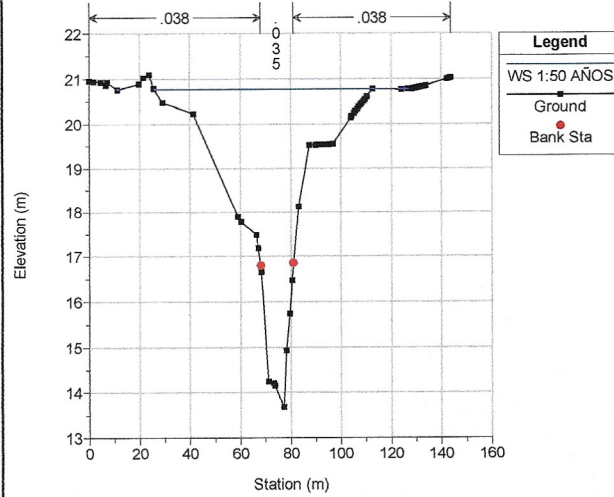
River = TATARE Reach = TATARE.12 RS = 1760



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

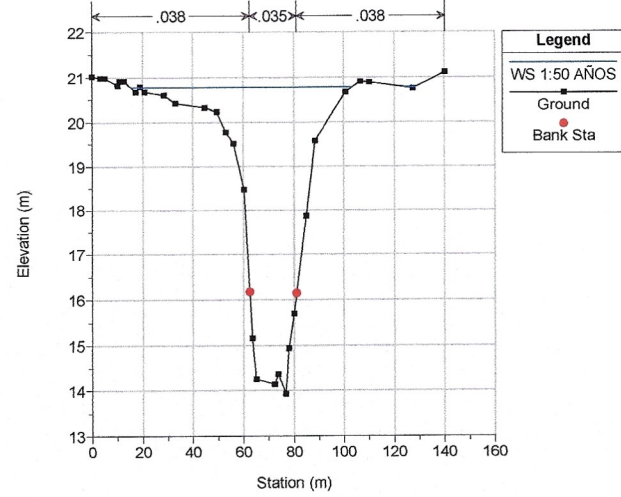
River = TATARE Reach = TATARE.12 RS = 1740



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

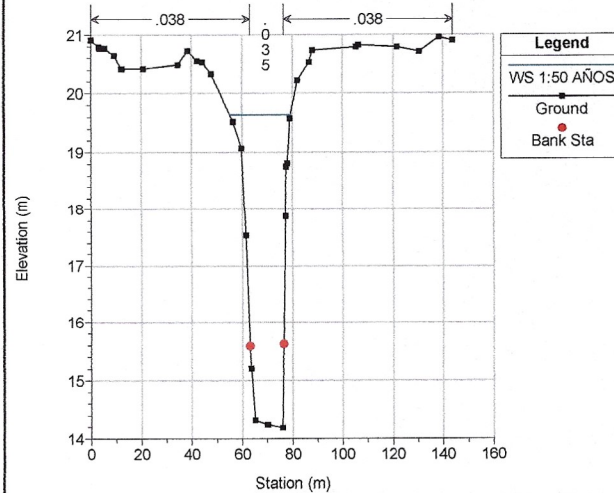
River = TATARE Reach = TATARE.12 RS = 1720



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

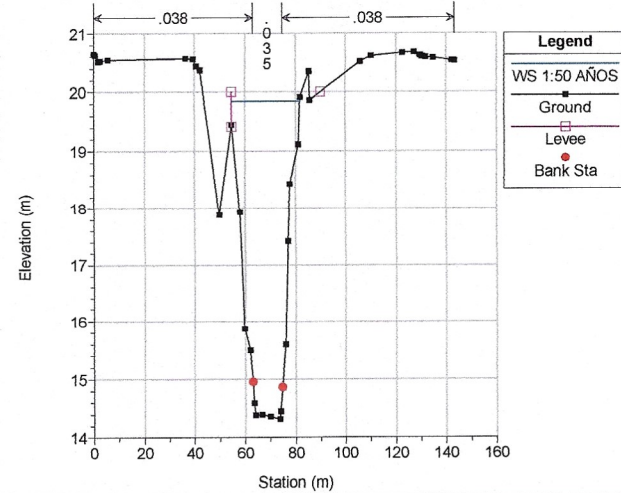
River = TATARE Reach = TATARE.12 RS = 1700

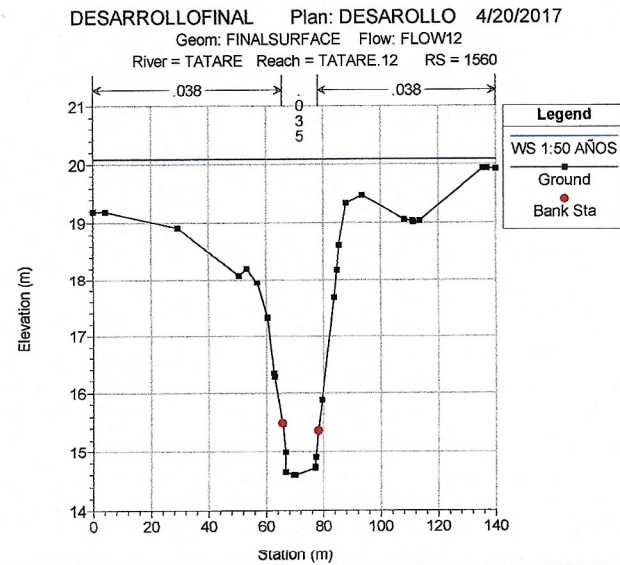
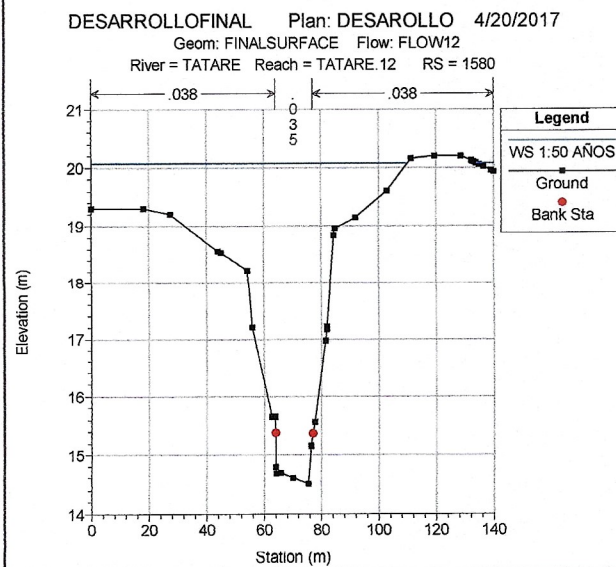
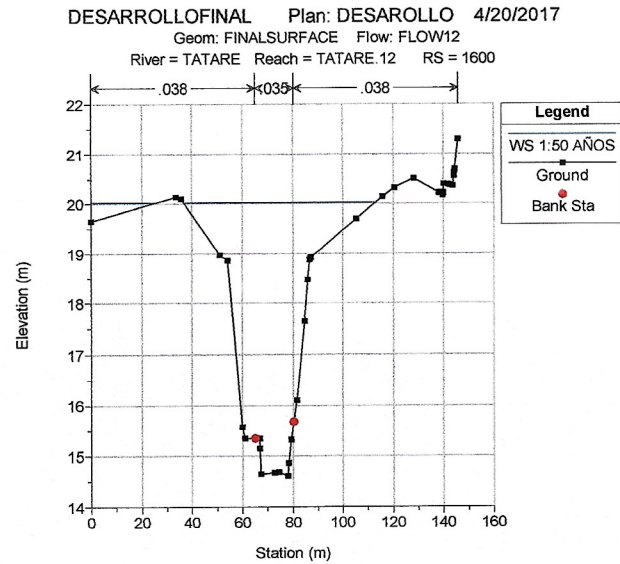
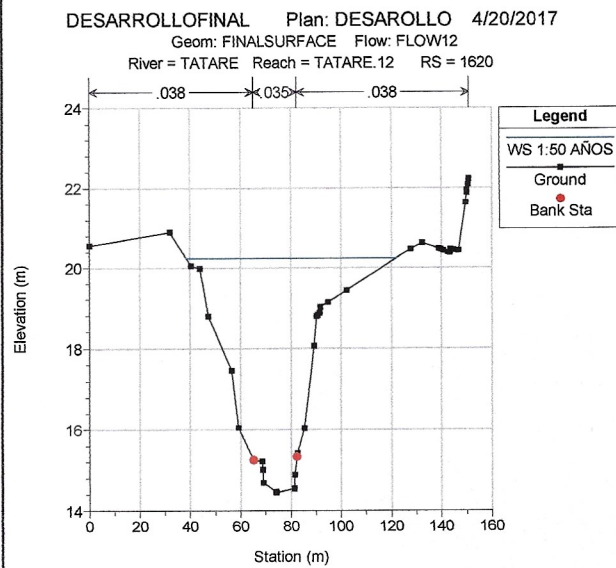
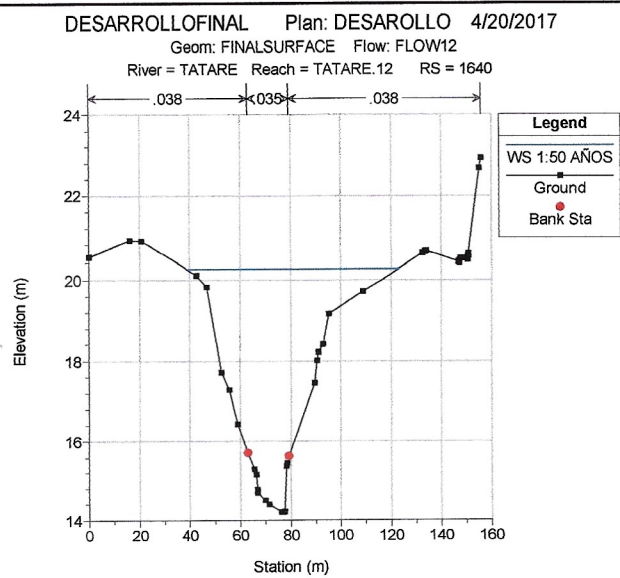
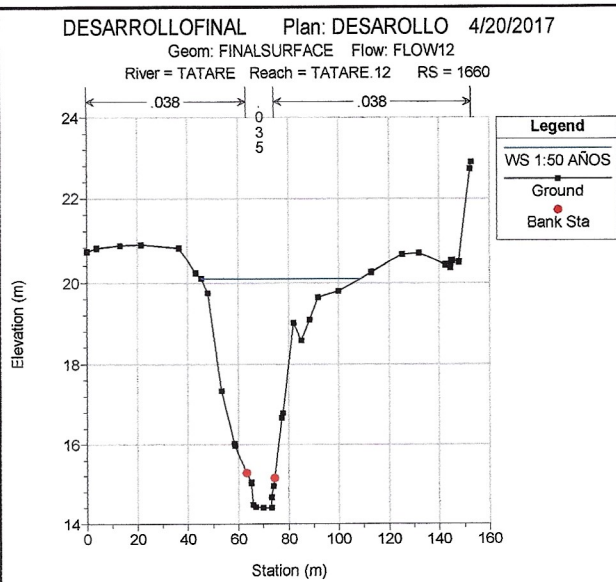


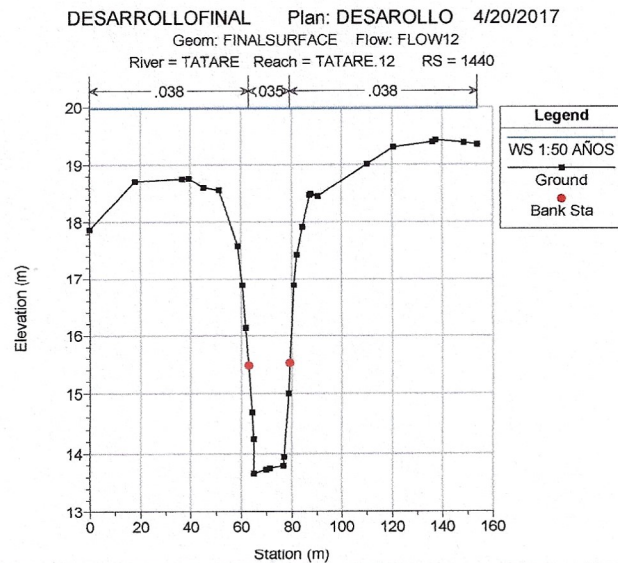
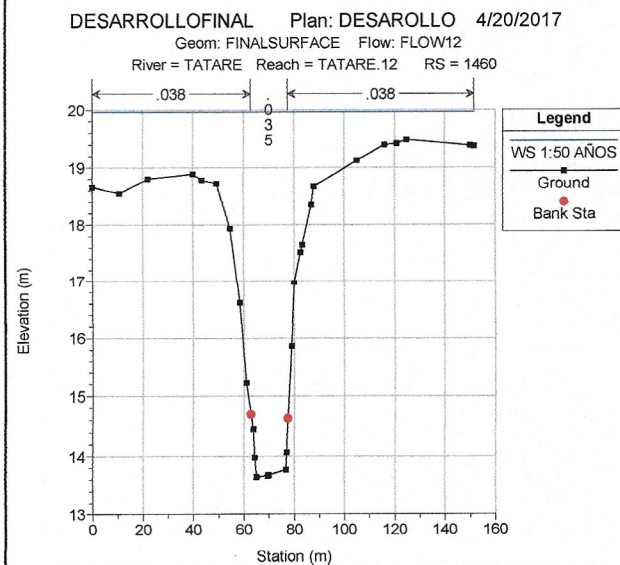
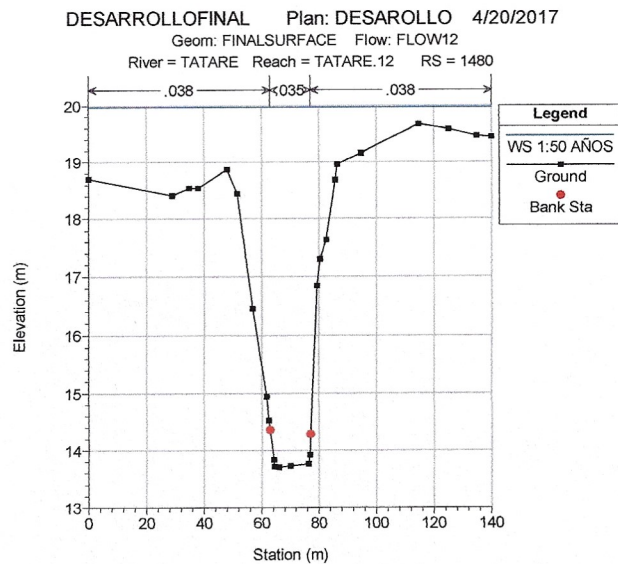
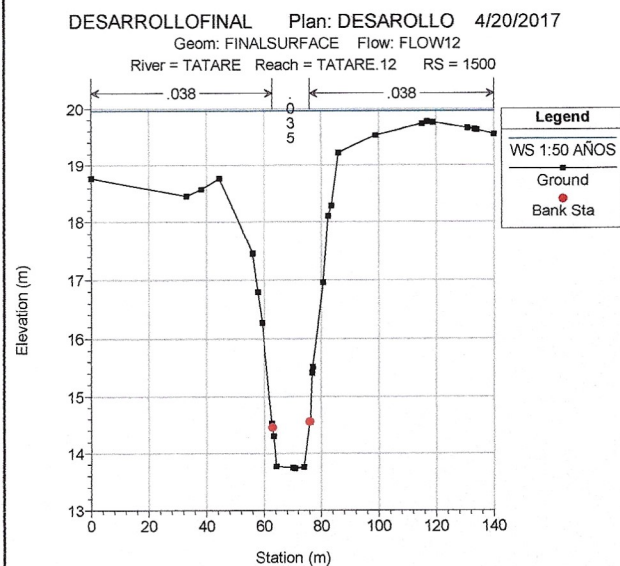
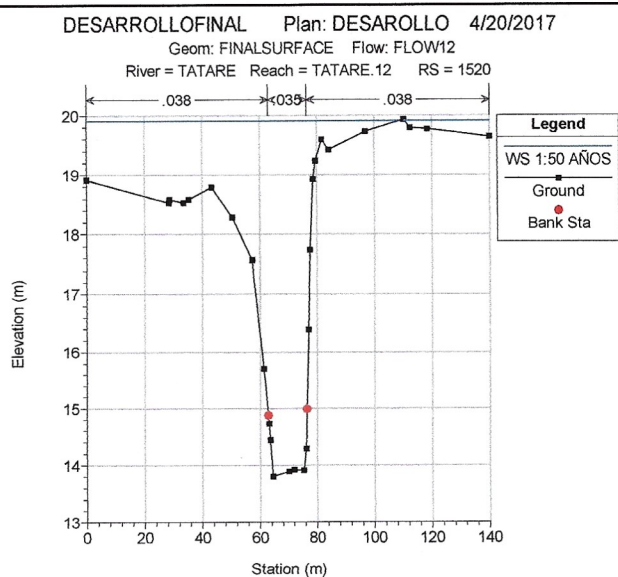
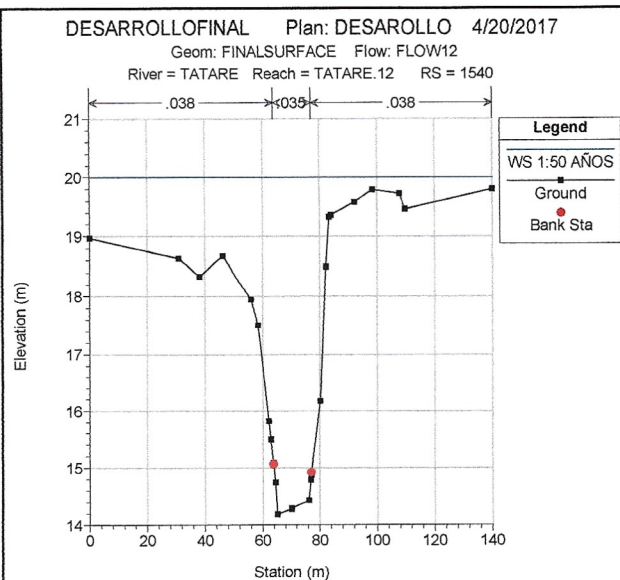
DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

River = TATARE Reach = TATARE.12 RS = 1680



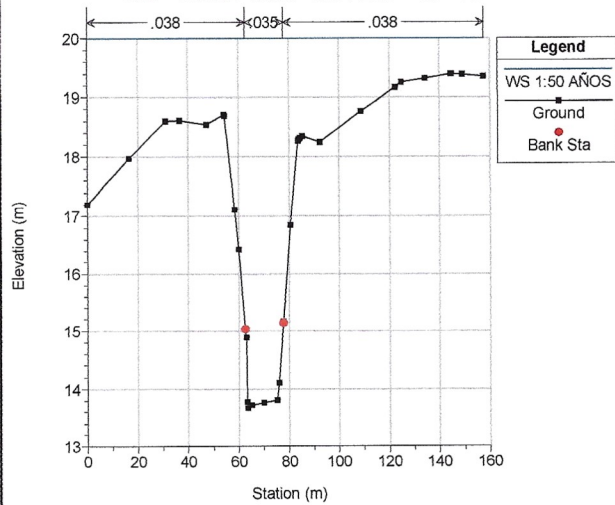




DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

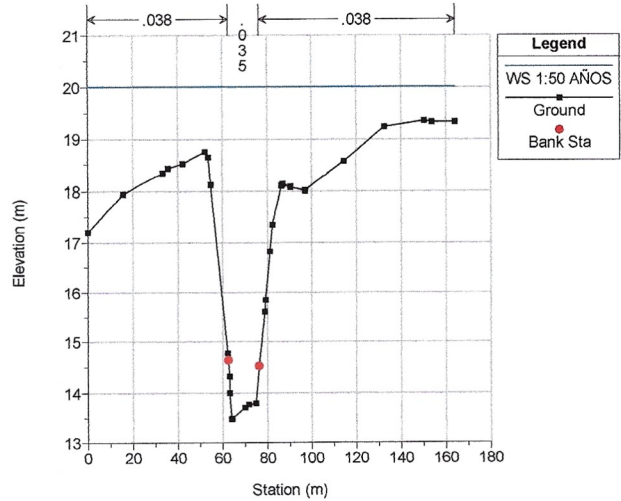
River = TATARE Reach = TATARE.12 RS = 1420



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

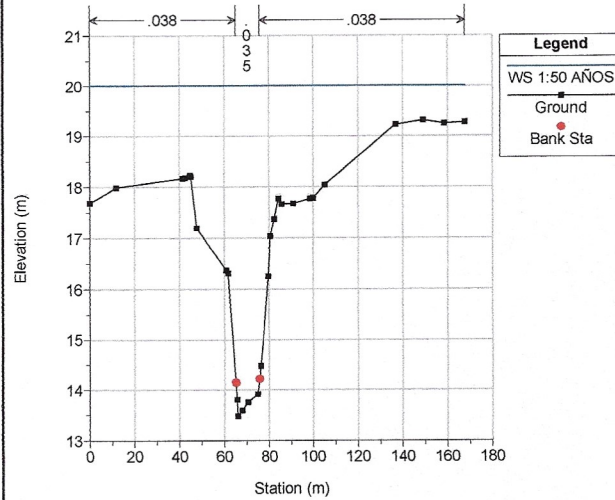
River = TATARE Reach = TATARE.12 RS = 1400



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

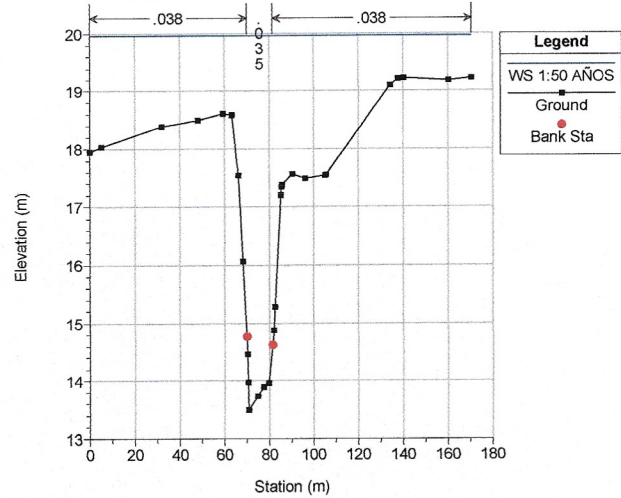
River = TATARE Reach = TATARE.12 RS = 1380



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

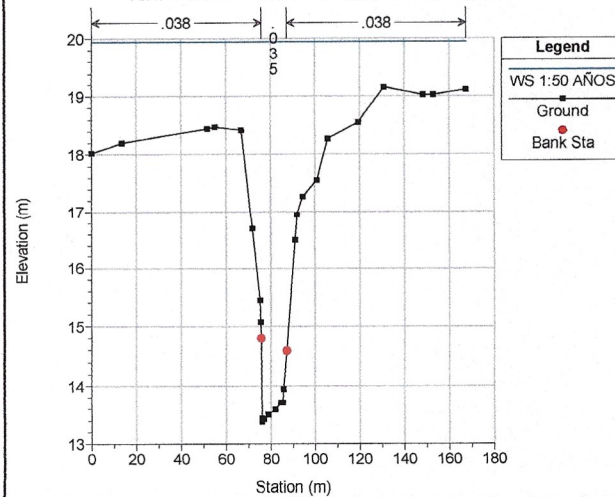
River = TATARE Reach = TATARE.12 RS = 1360



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

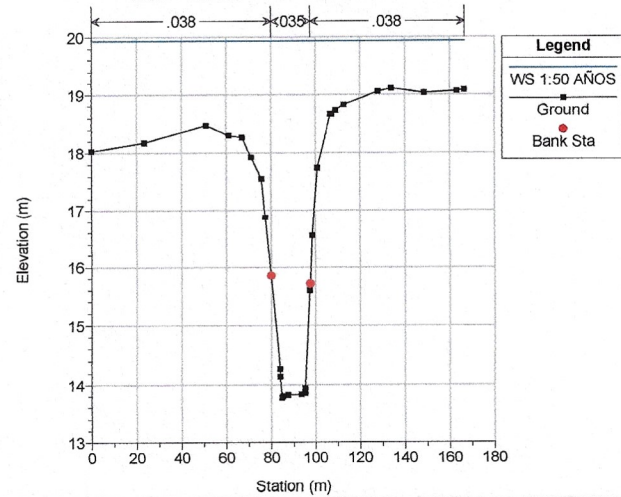
River = TATARE Reach = TATARE.12 RS = 1340



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

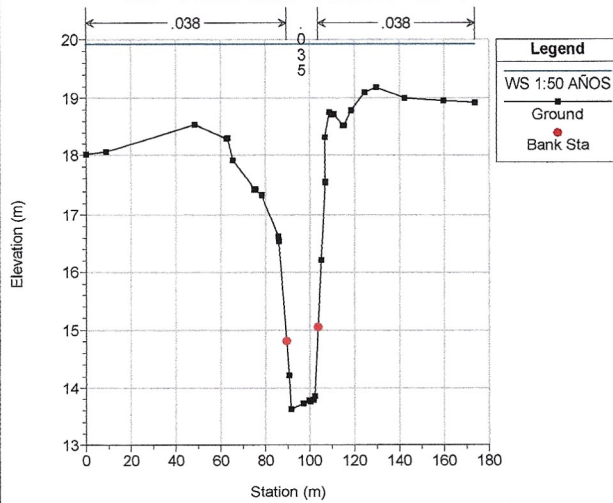
River = TATARE Reach = TATARE.12 RS = 1320



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

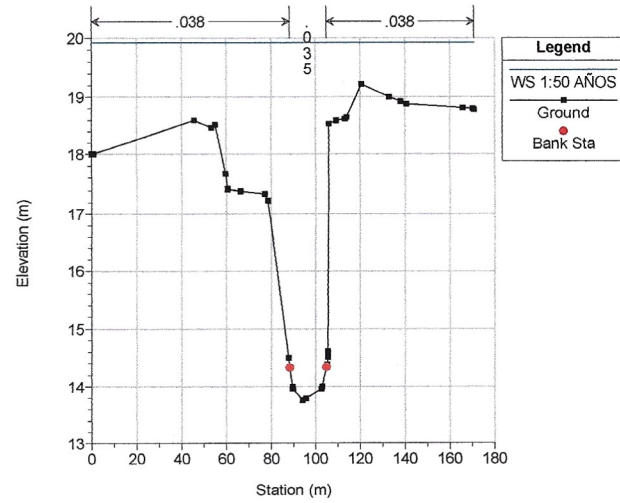
River = TATARE Reach = TATARE.12 RS = 1300



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

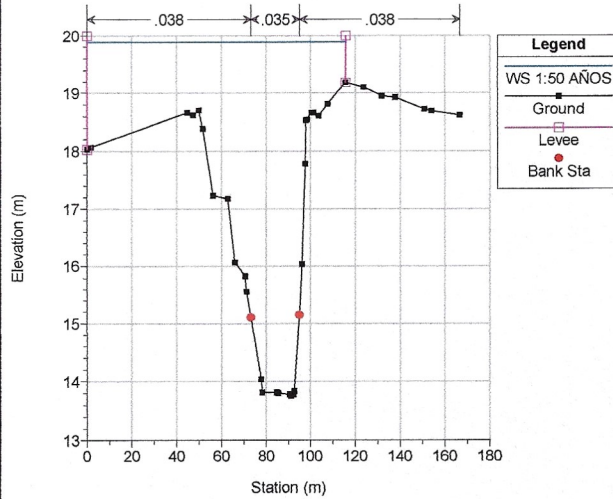
River = TATARE Reach = TATARE.12 RS = 1280



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

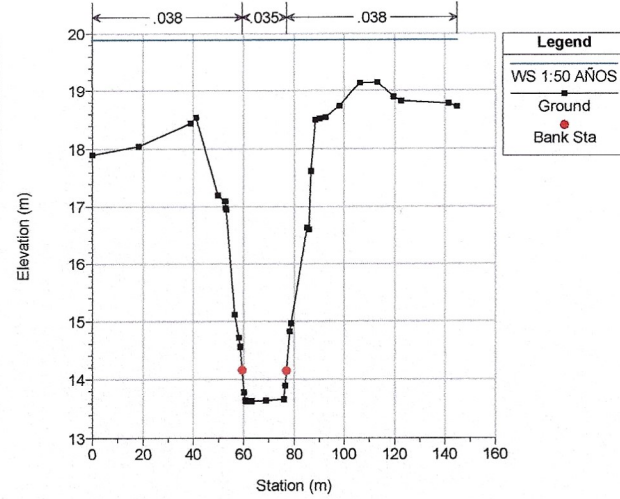
River = TATARE Reach = TATARE.12 RS = 1260



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

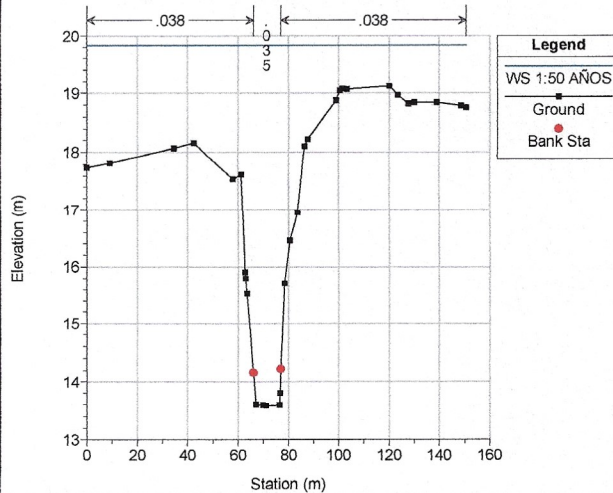
River = TATARE Reach = TATARE.12 RS = 1240



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

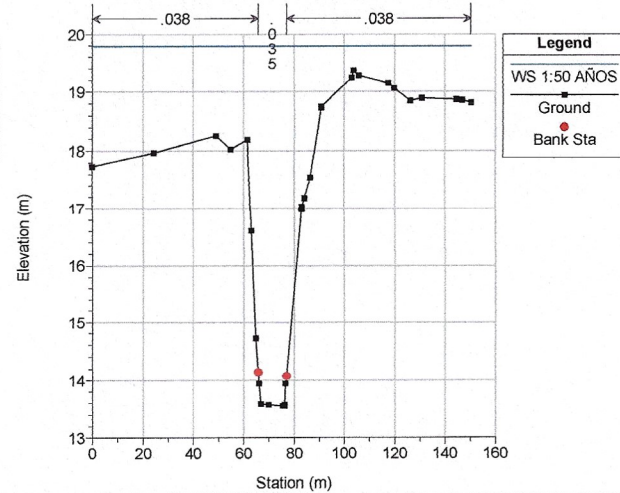
River = TATARE Reach = TATARE.12 RS = 1220



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

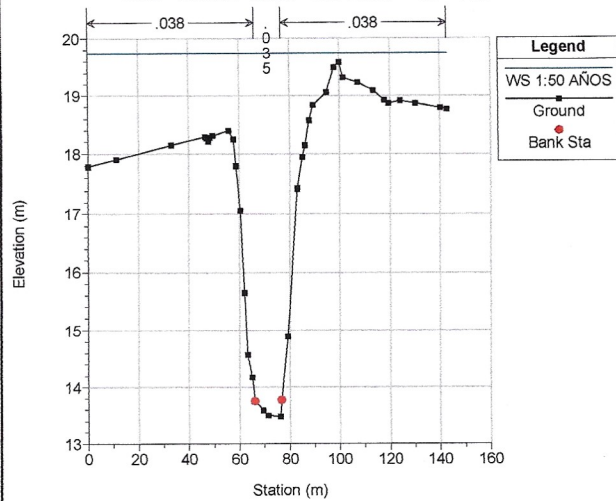
River = TATARE Reach = TATARE.12 RS = 1200



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

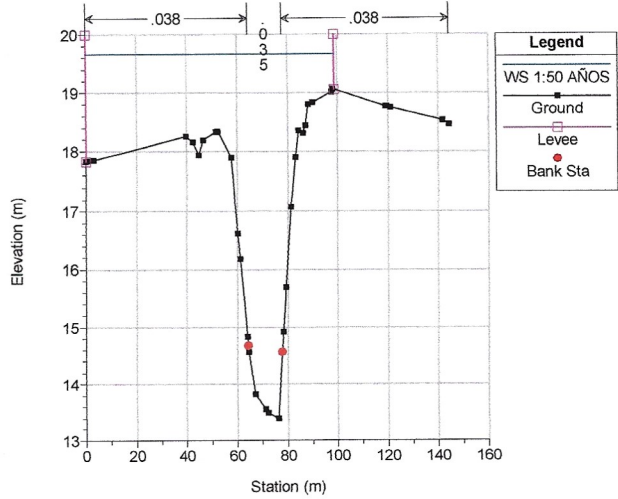
River = TATARE Reach = TATARE.12 RS = 1180



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

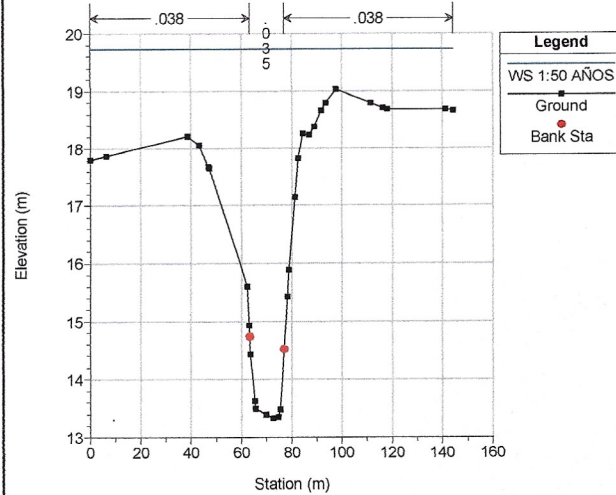
River = TATARE Reach = TATARE.12 RS = 1160



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

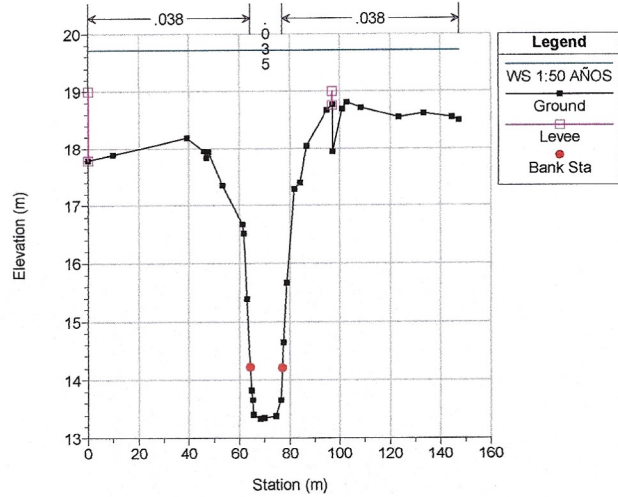
River = TATARE Reach = TATARE.12 RS = 1140



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

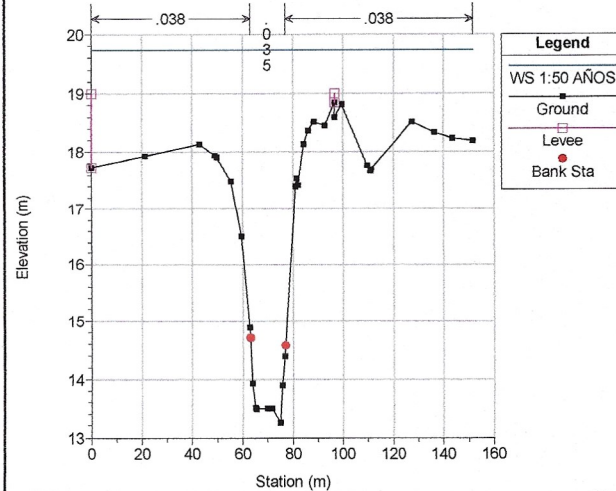
River = TATARE Reach = TATARE.12 RS = 1120



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

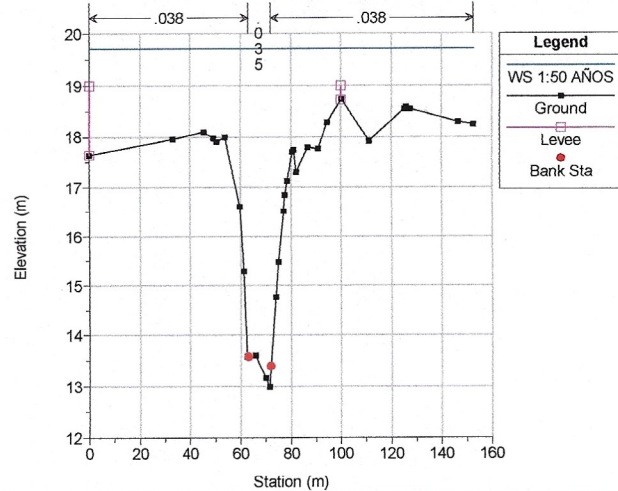
River = TATARE Reach = TATARE.12 RS = 1100

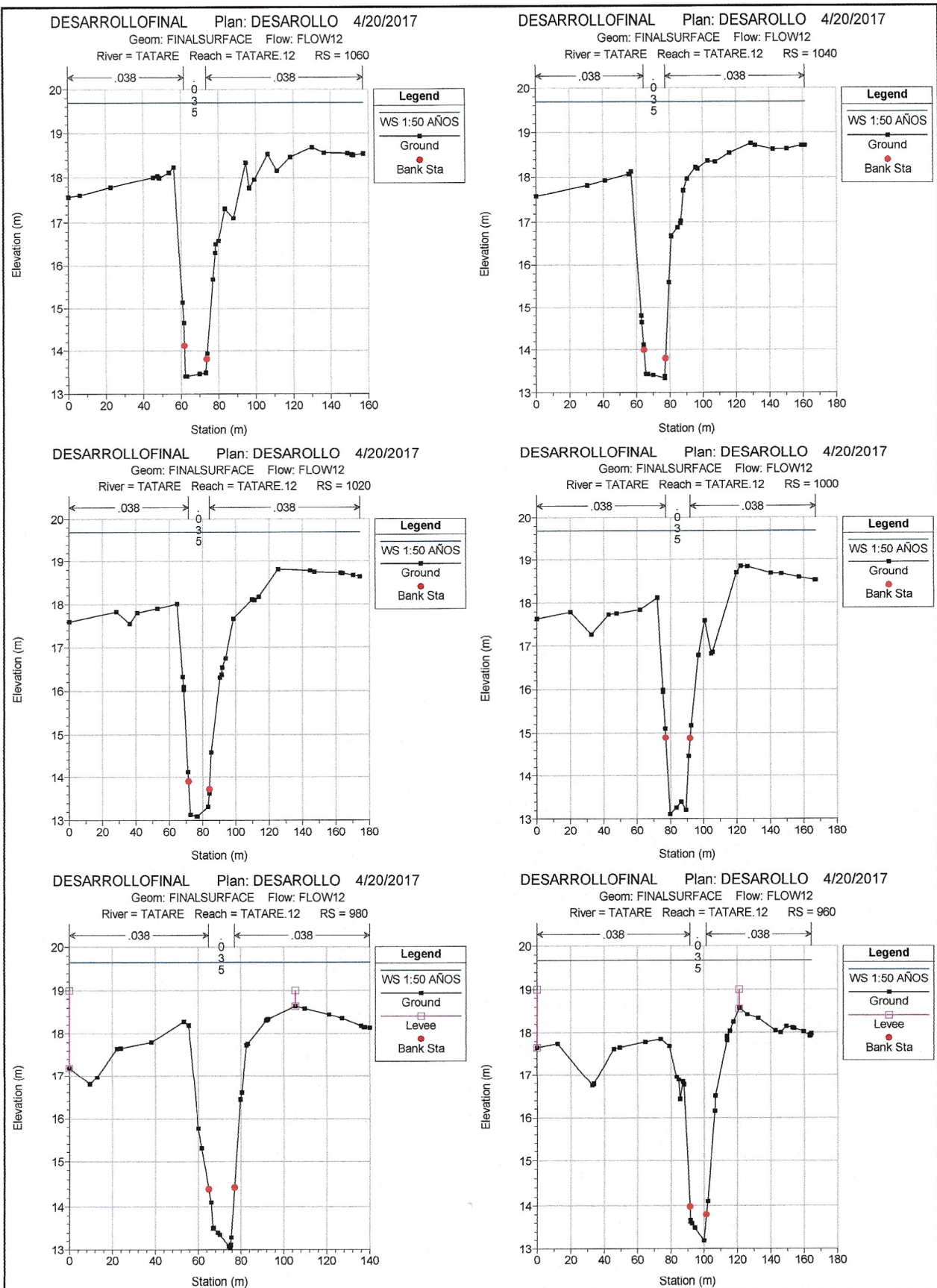


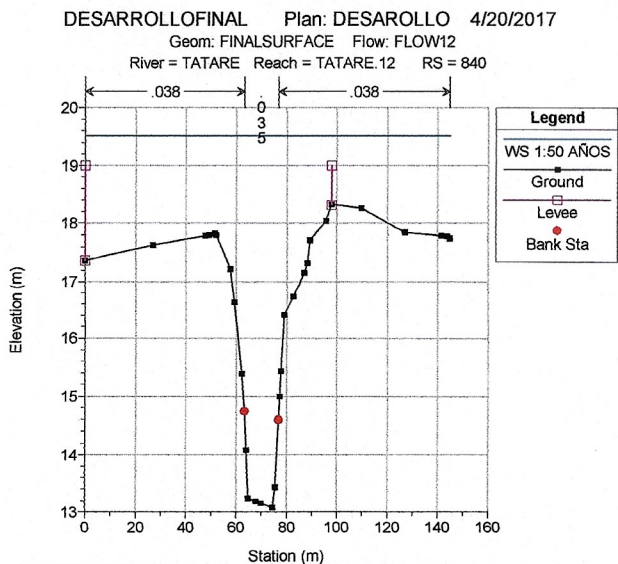
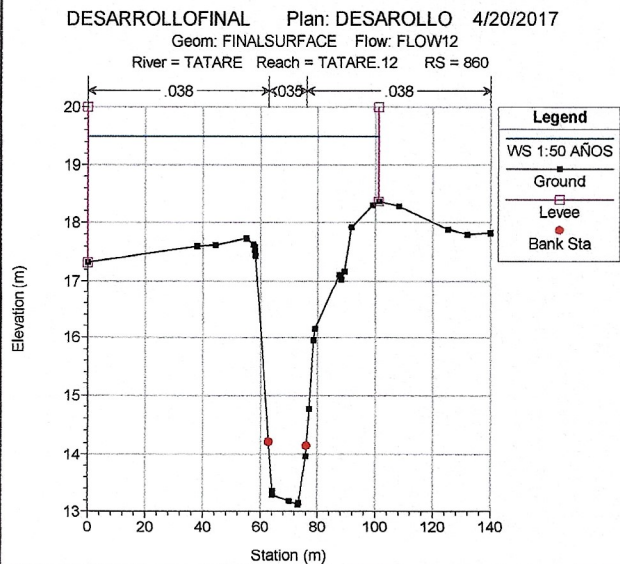
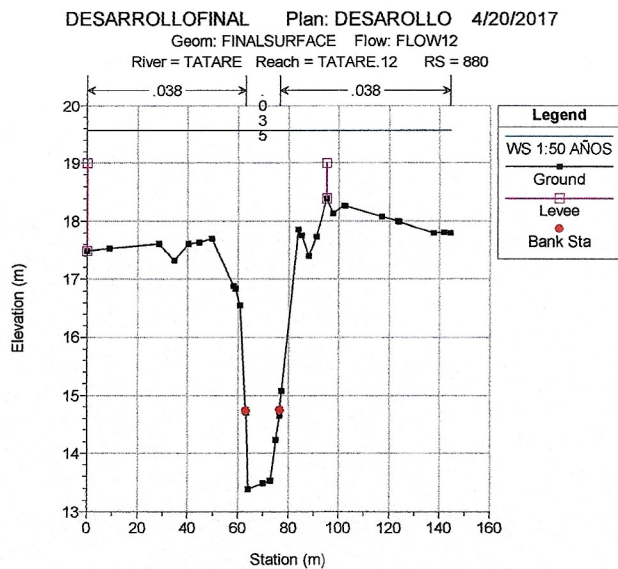
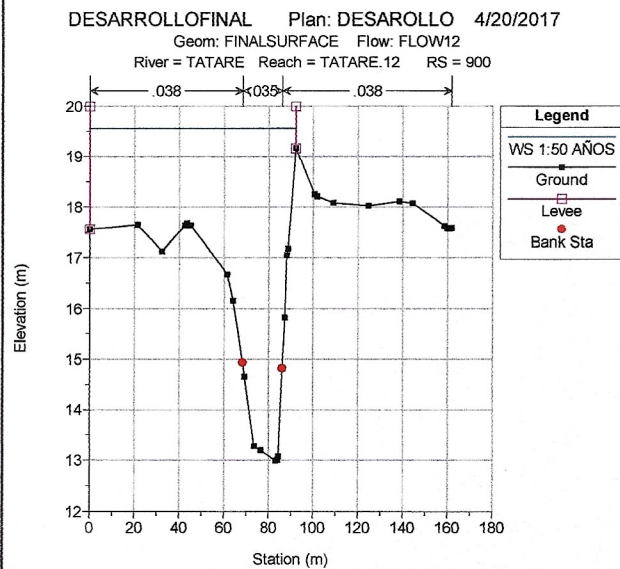
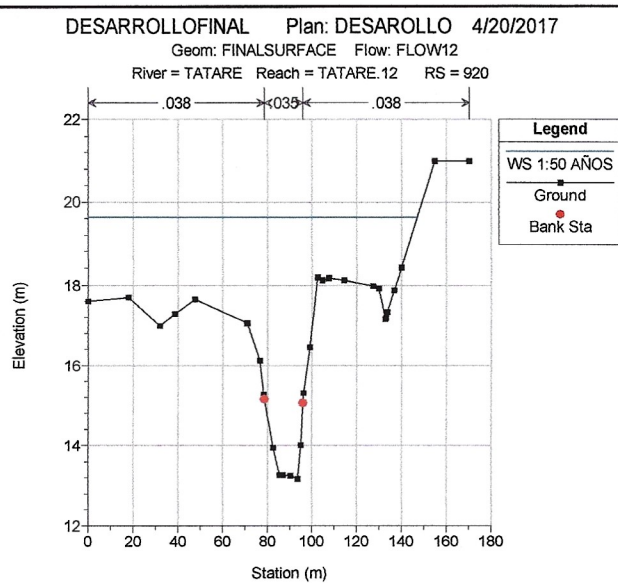
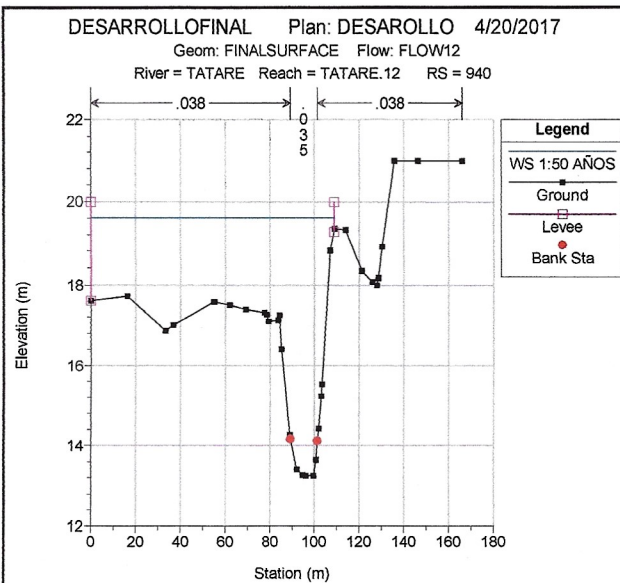
DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

River = TATARE Reach = TATARE.12 RS = 1080



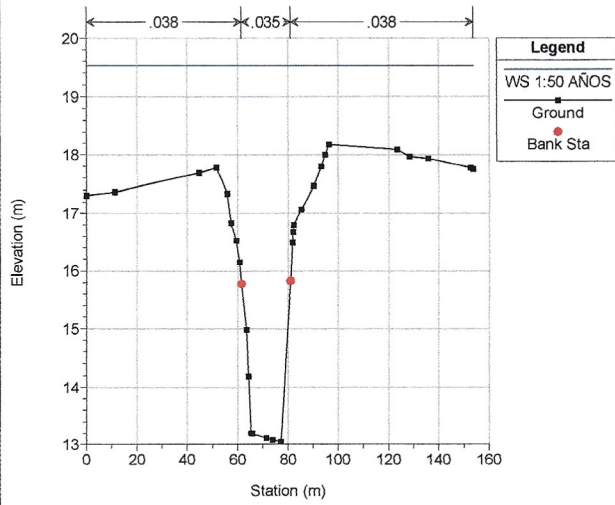




DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

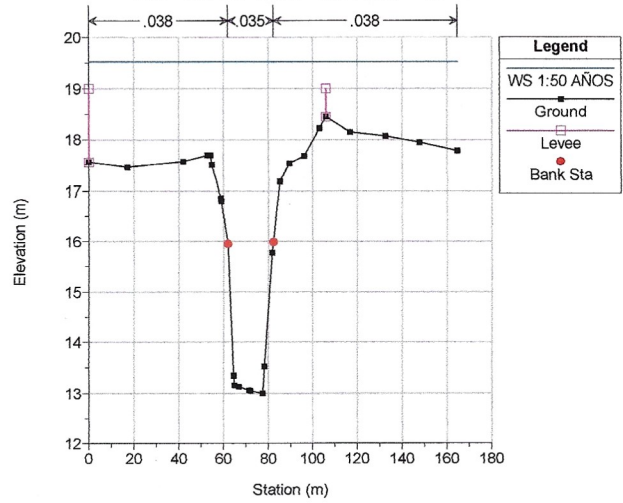
River = TATARE Reach = TATARE.12 RS = 820



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

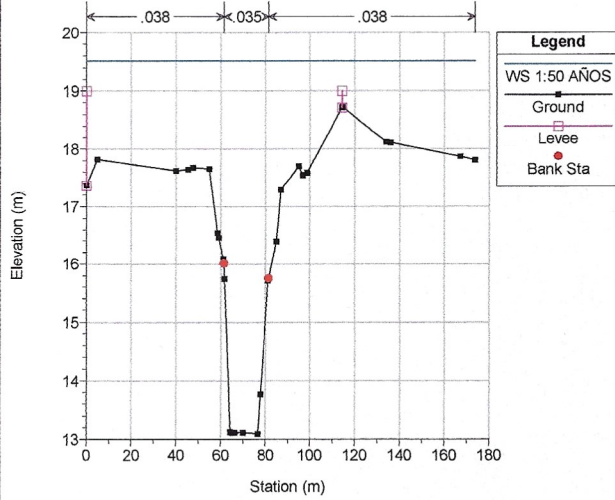
River = TATARE Reach = TATARE.12 RS = 800



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

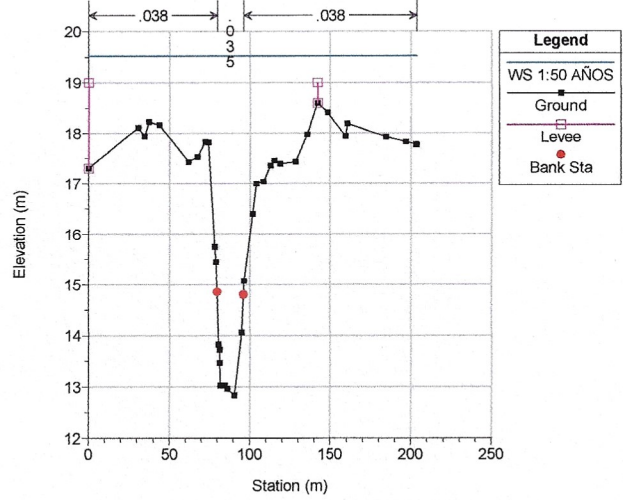
River = TATARE Reach = TATARE.12 RS = 780



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

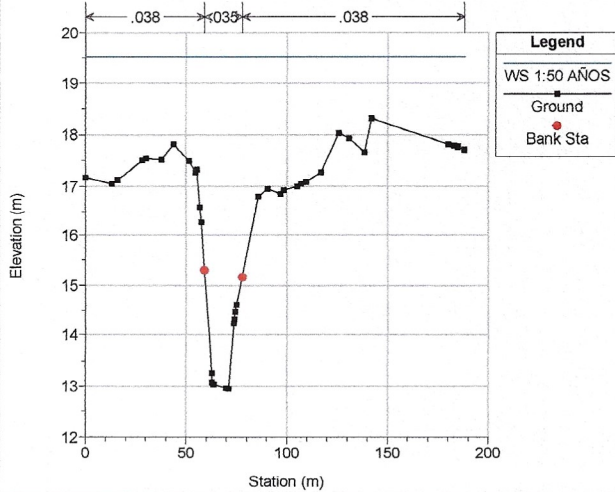
River = TATARE Reach = TATARE.12 RS = 760



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

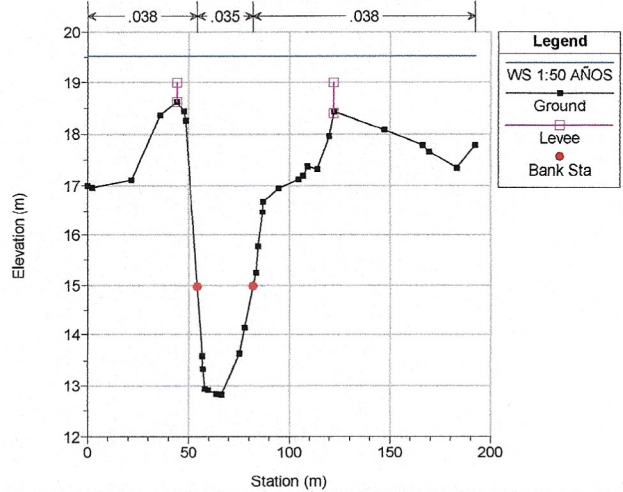
River = TATARE Reach = TATARE.12 RS = 740

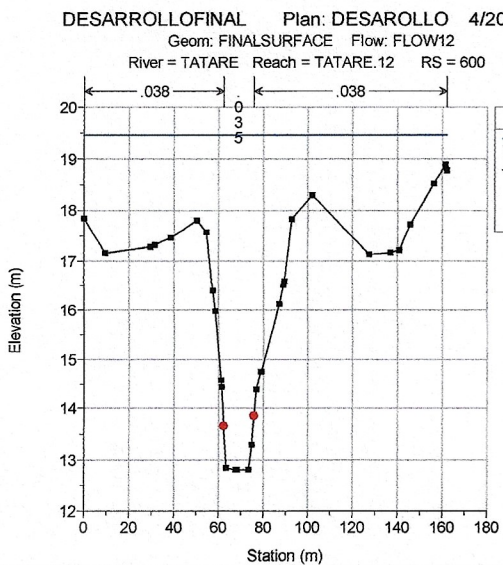
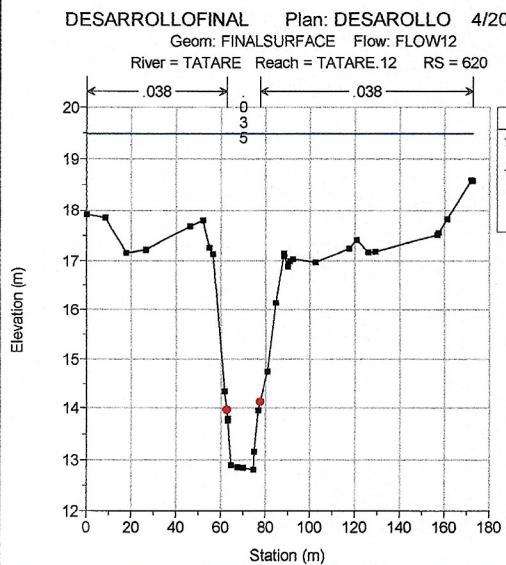
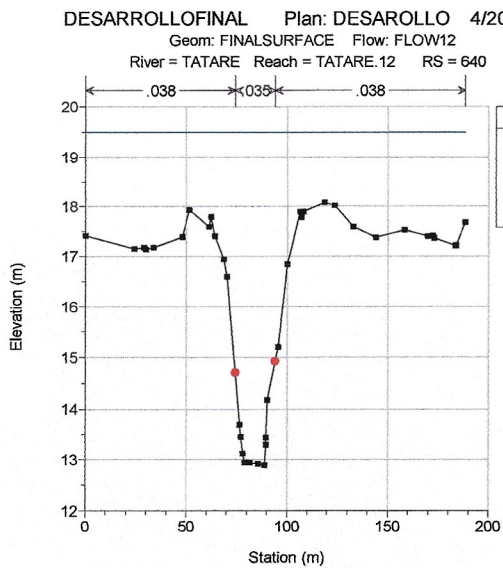
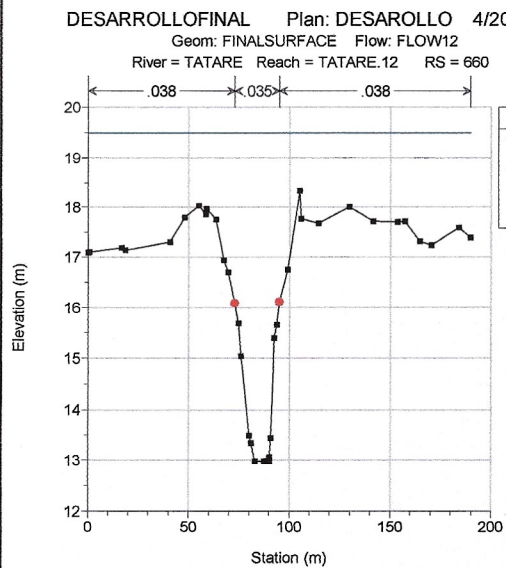
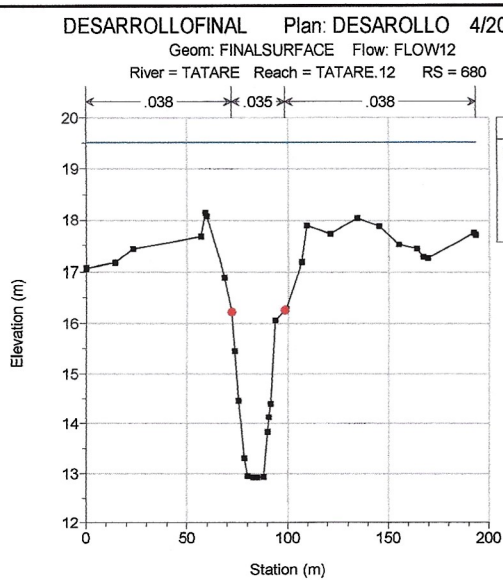
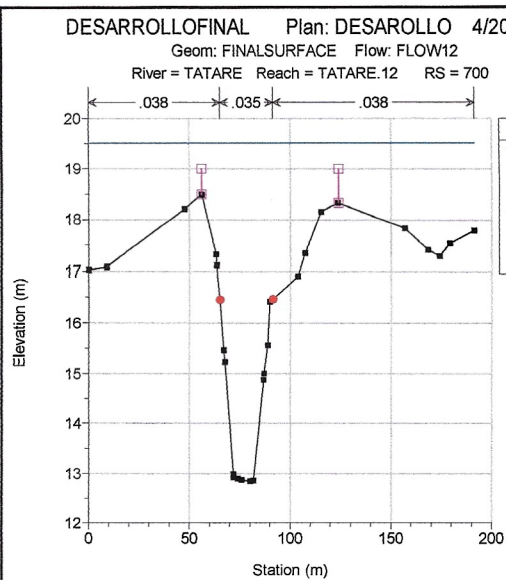


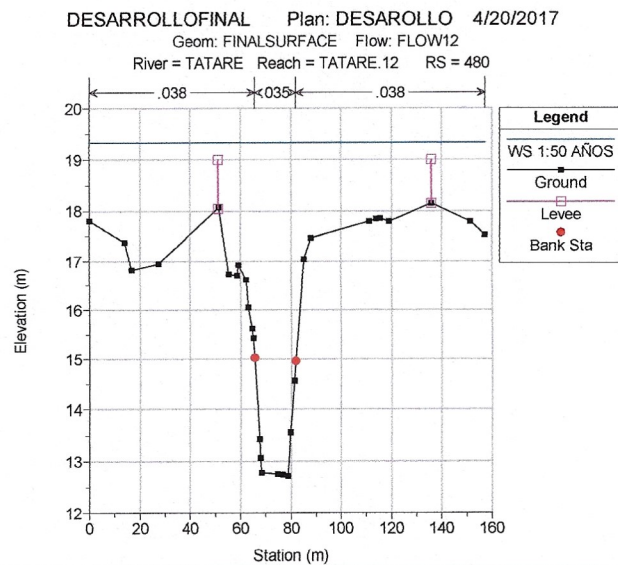
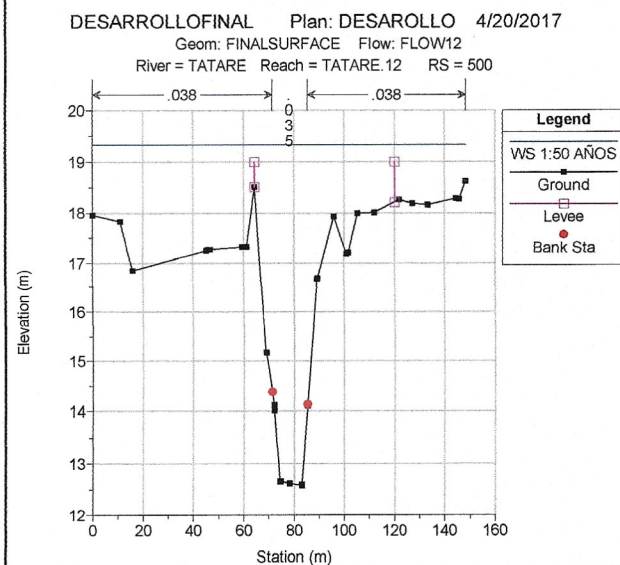
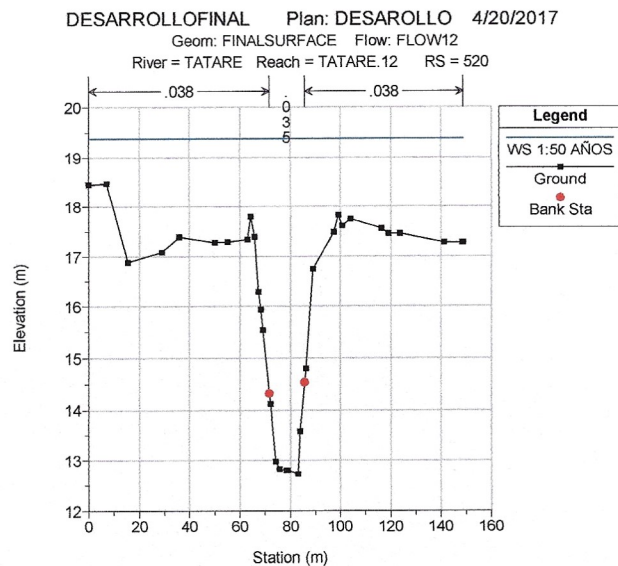
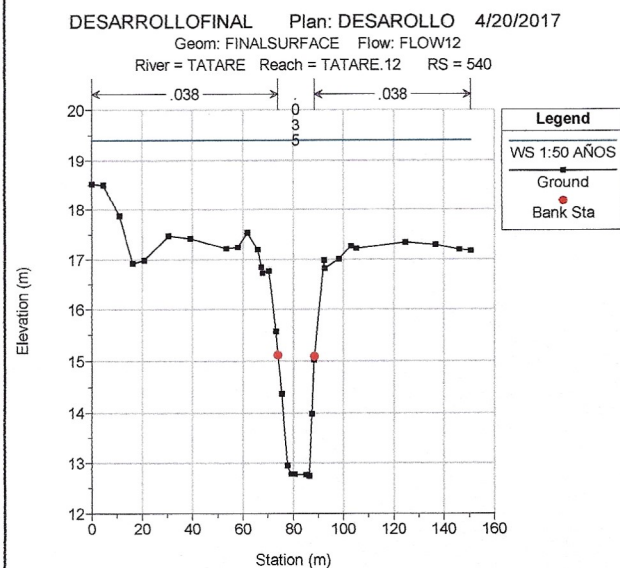
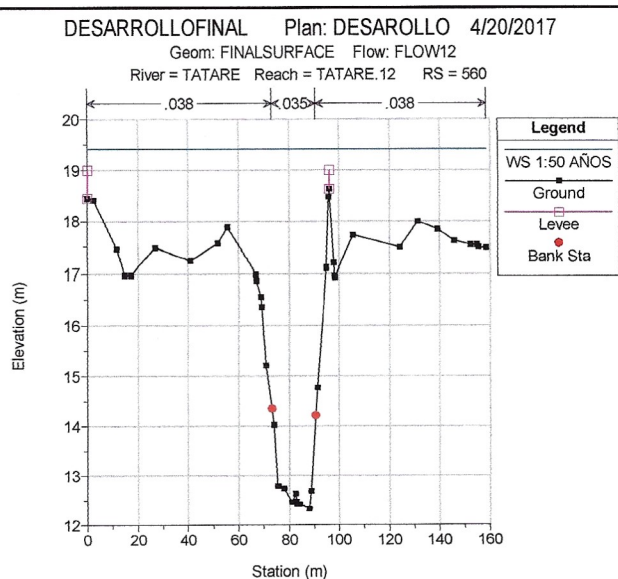
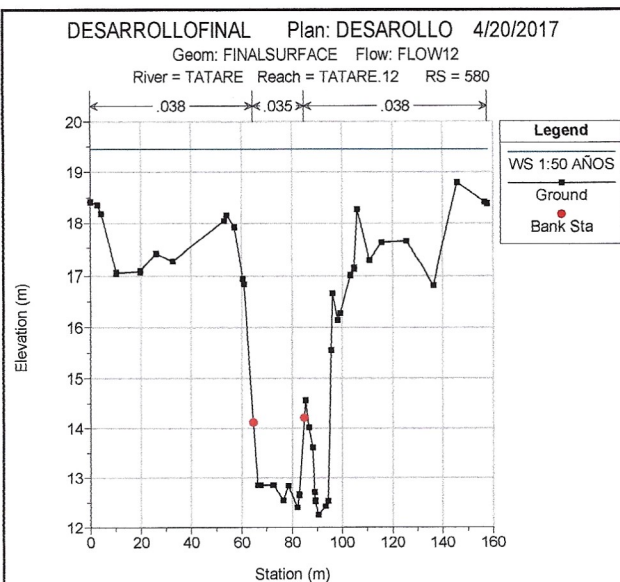
DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

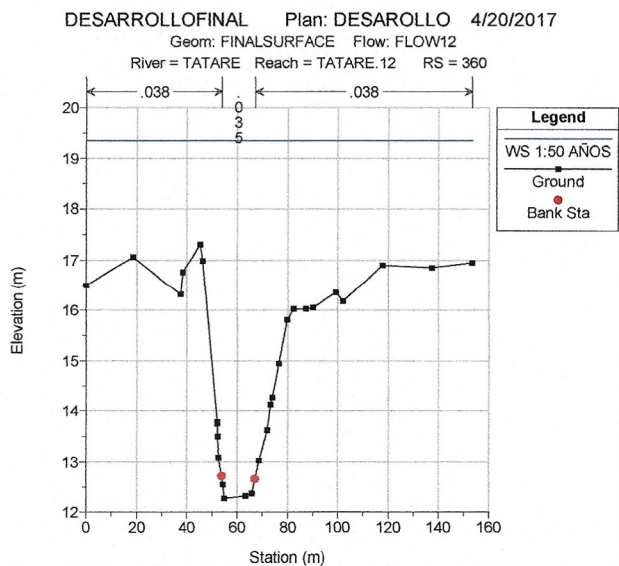
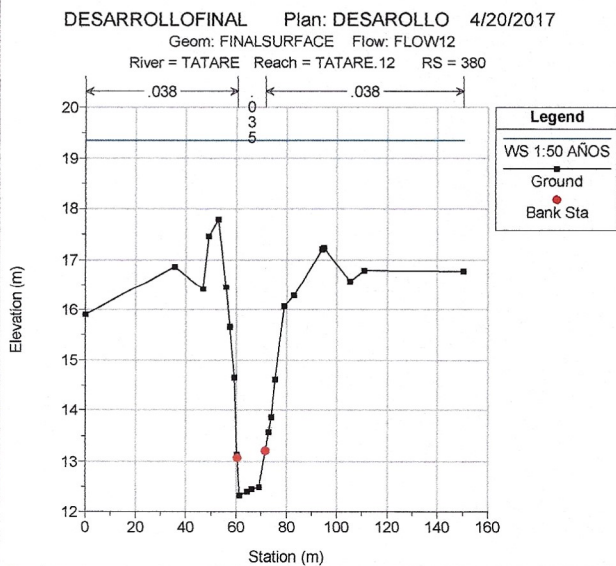
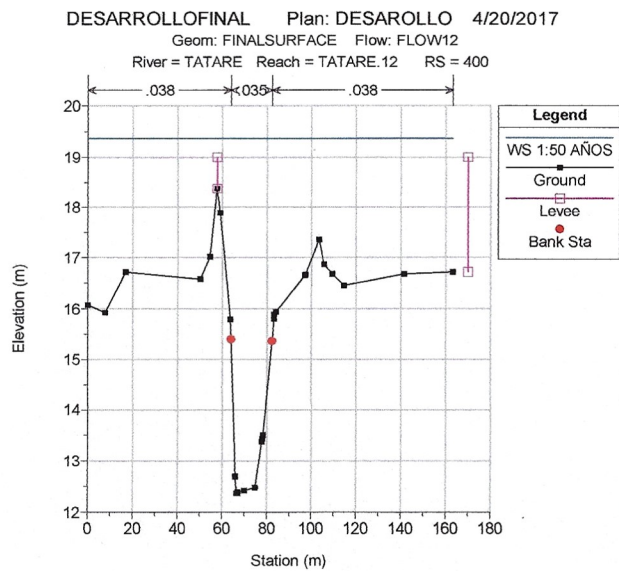
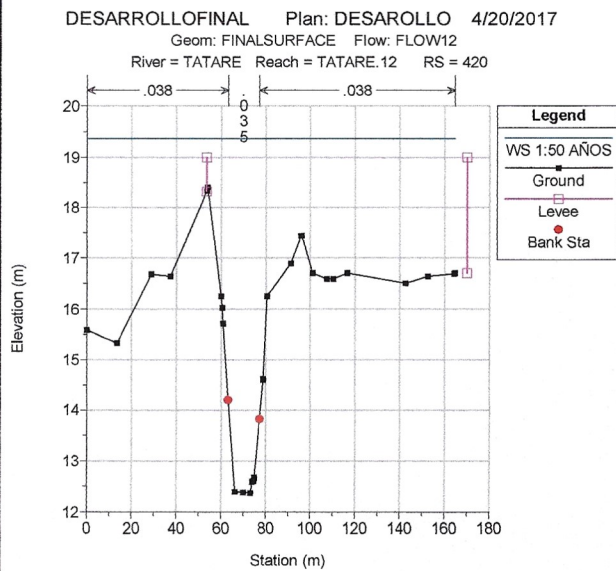
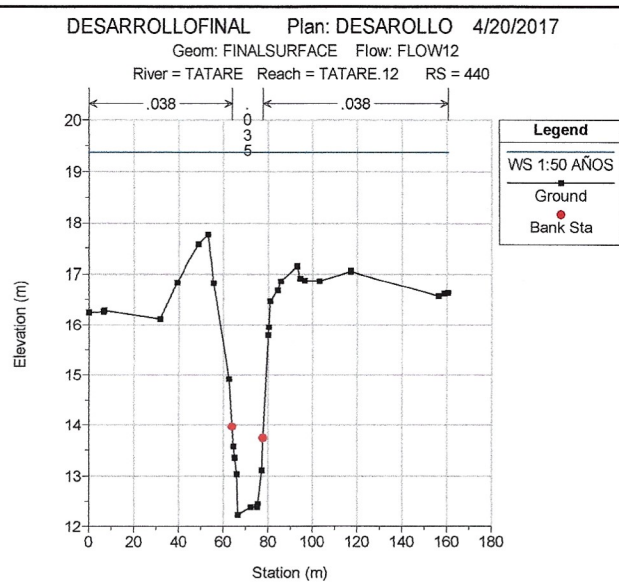
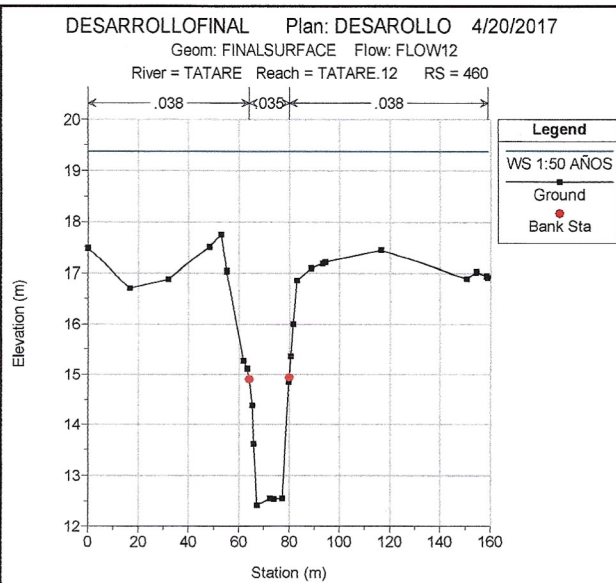
Geom: FINALSURFACE Flow: FLOW12

River = TATARE Reach = TATARE.12 RS = 720





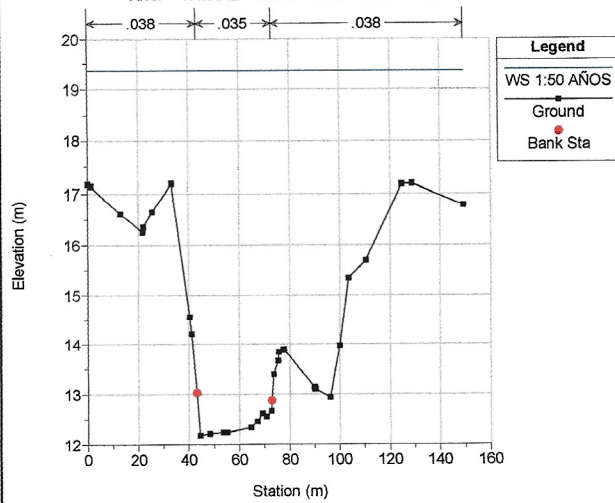




DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

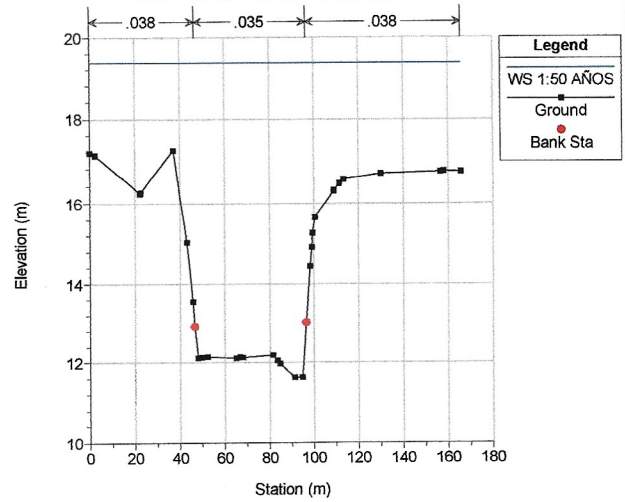
River = TATARE Reach = TATARE.12 RS = 340



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

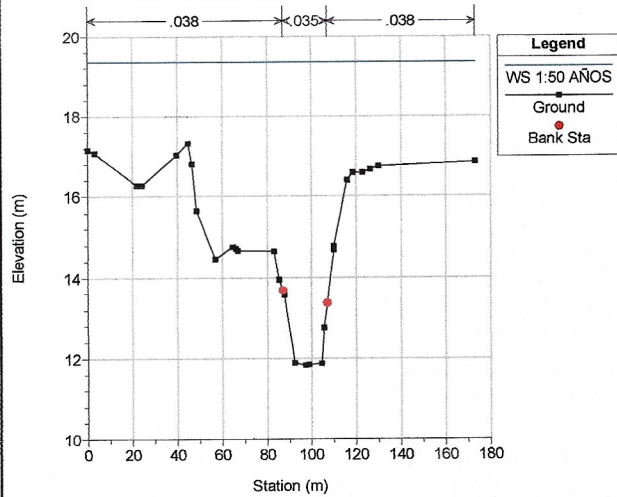
River = TATARE Reach = TATARE.12 RS = 320



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

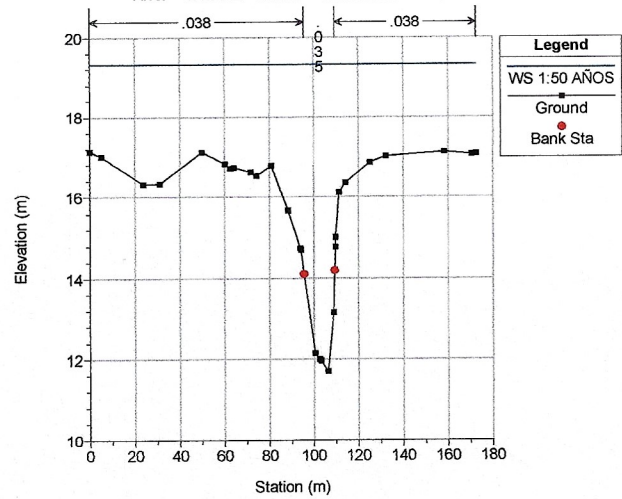
River = TATARE Reach = TATARE.12 RS = 300



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

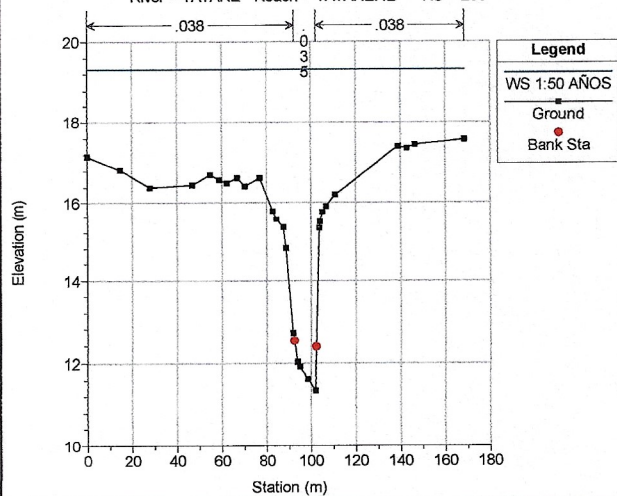
River = TATARE Reach = TATARE.12 RS = 280



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

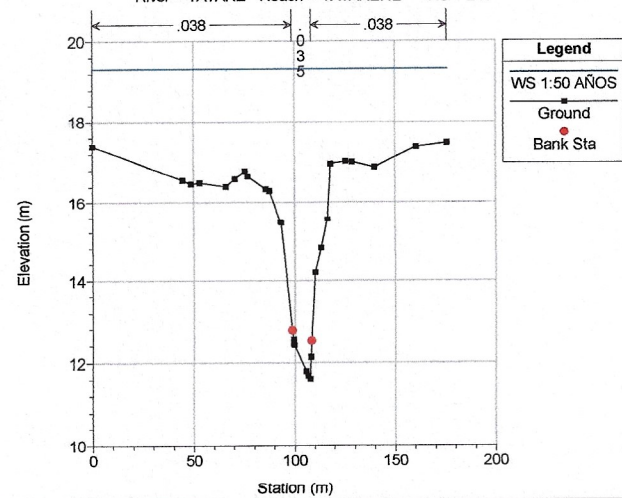
River = TATARE Reach = TATARE.12 RS = 260

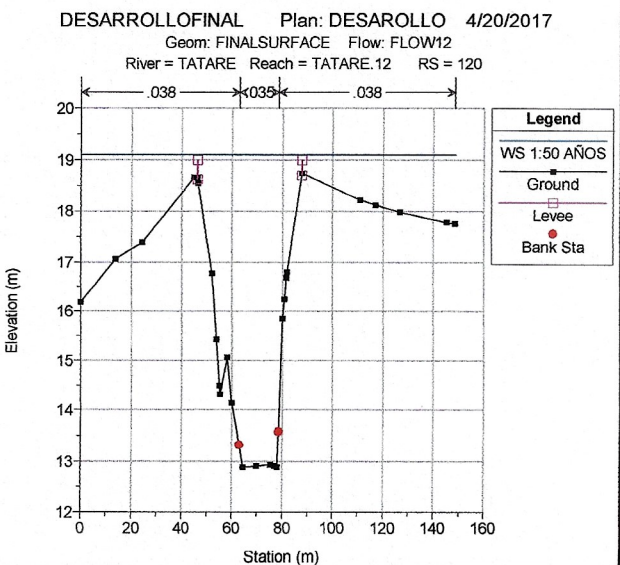
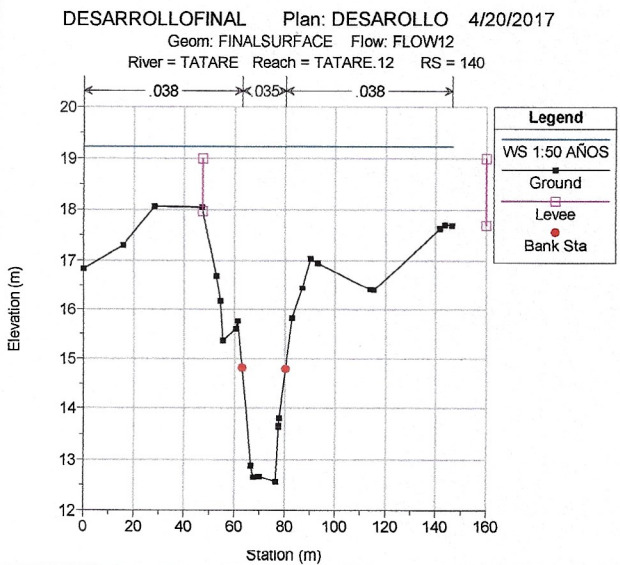
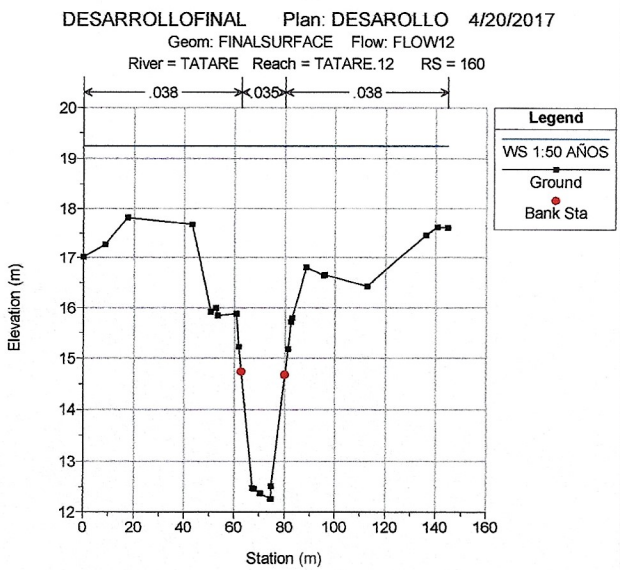
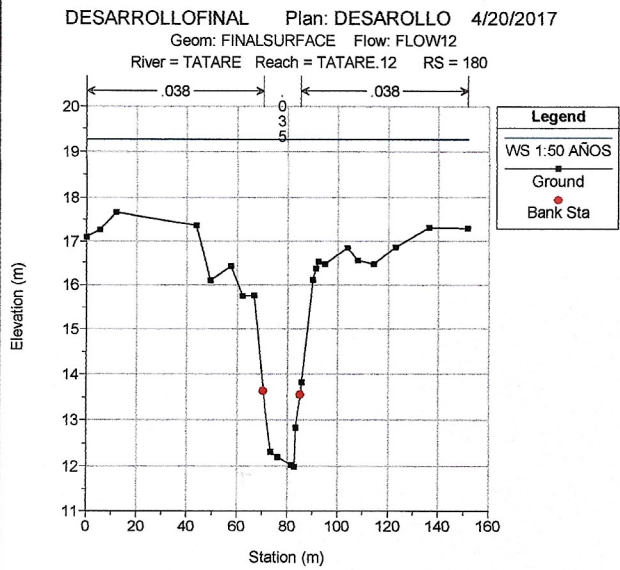
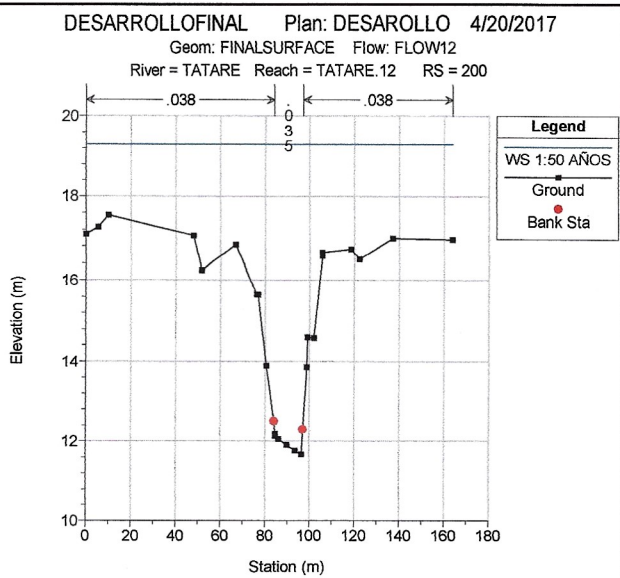
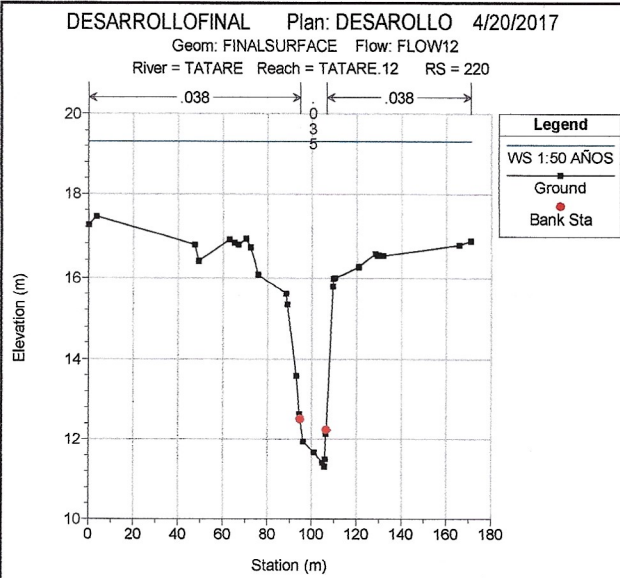


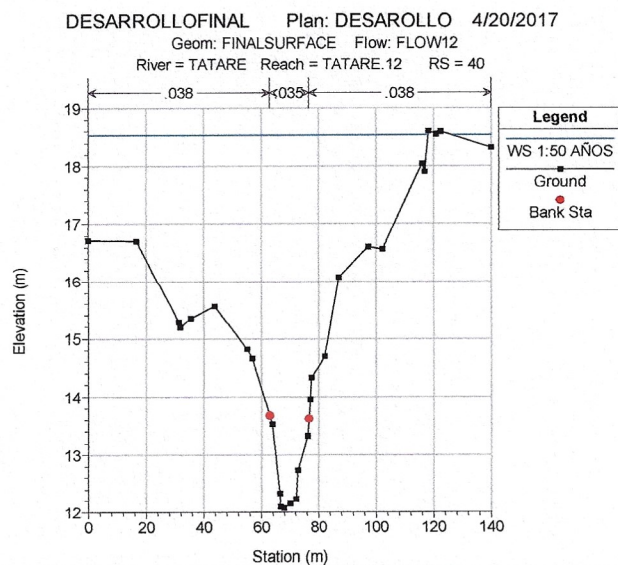
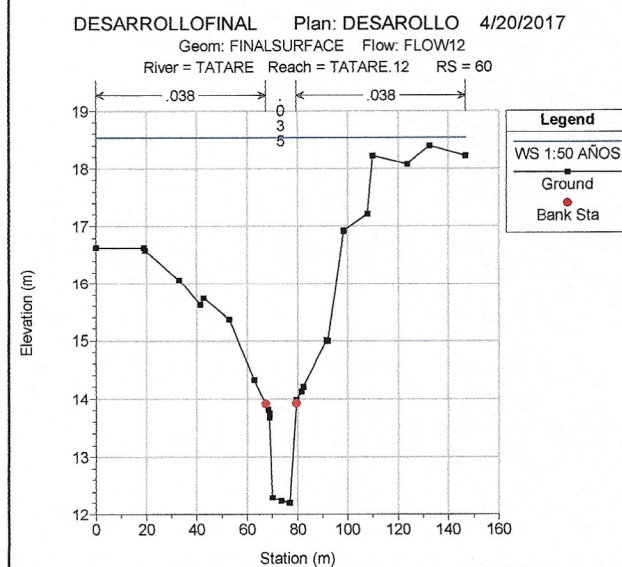
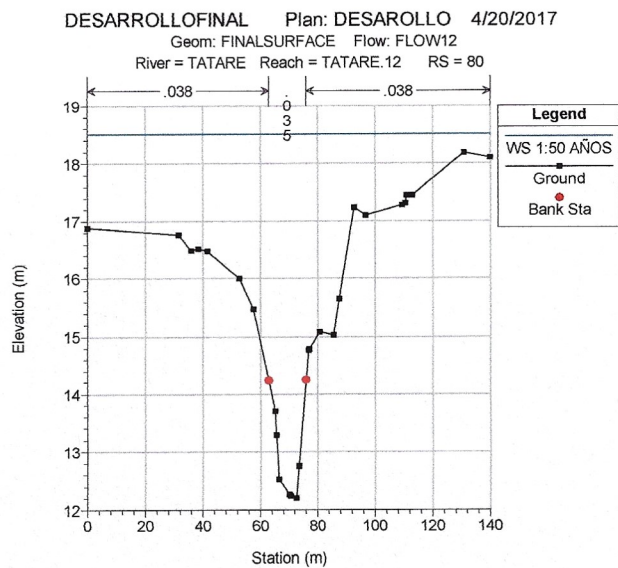
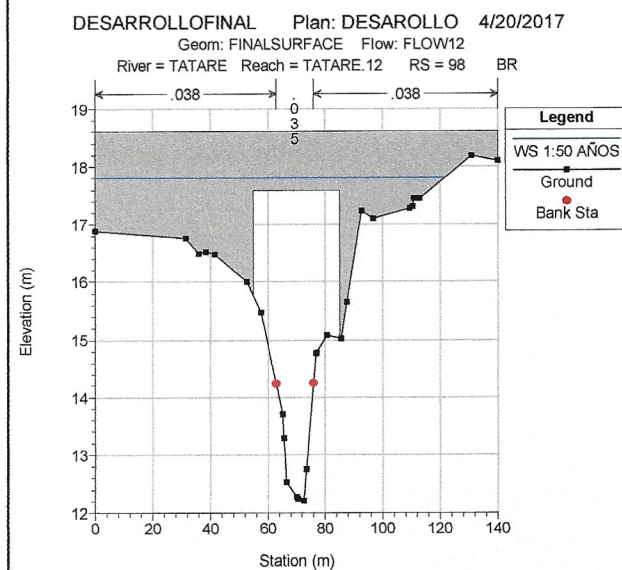
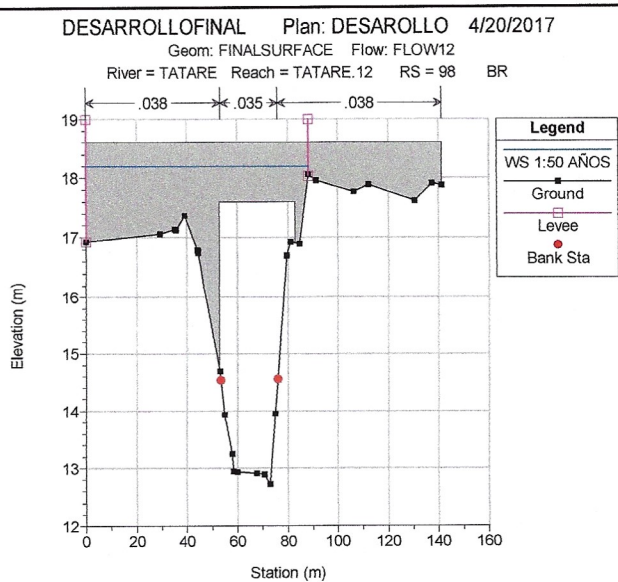
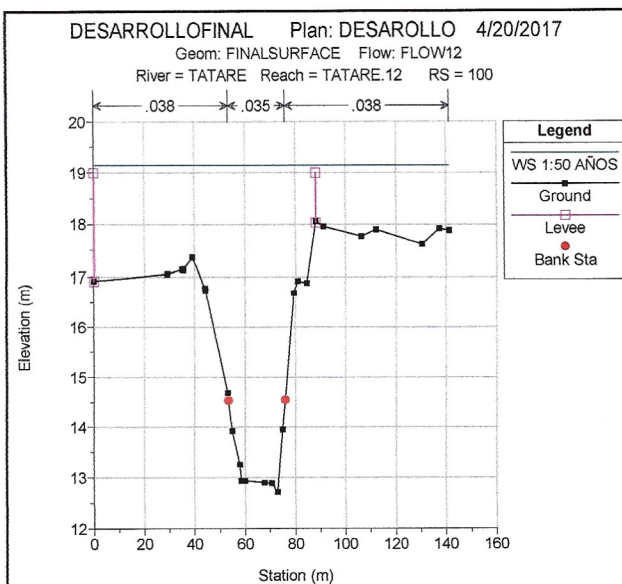
DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

River = TATARE Reach = TATARE.12 RS = 240



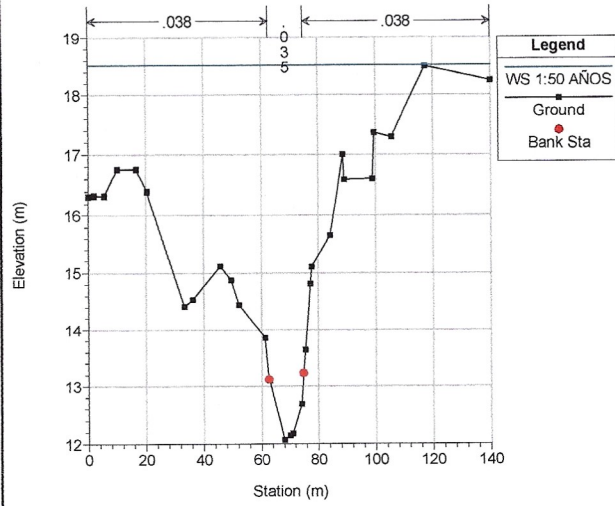




DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

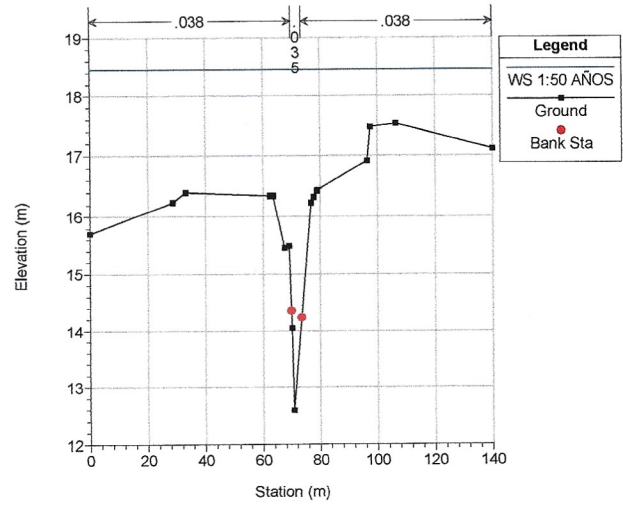
River = TATARE Reach = TATARE.12 RS = 20



DESARROLLOFINAL Plan: DESAROLLO 4/20/2017

Geom: FINALSURFACE Flow: FLOW12

River = TATARE Reach = TATARE.12 RS = 0



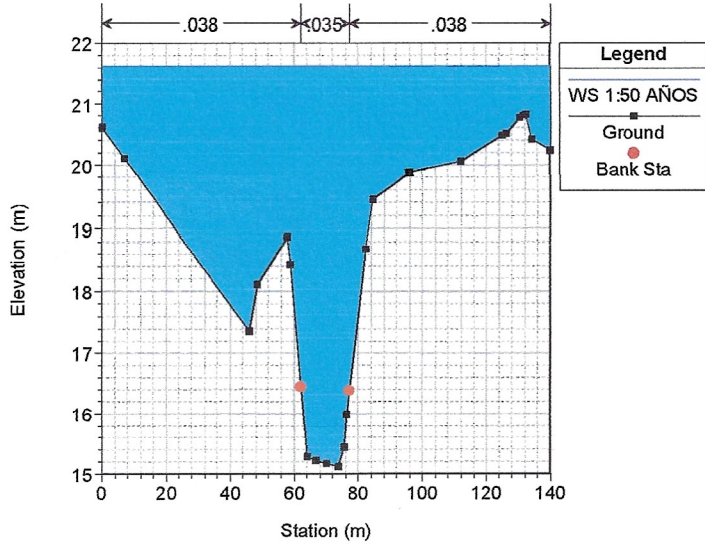
**SIMULACION DE RIO TATARE Y QUEBRADA
MALENGUE INCLUYENDO PROYECTO VECINO**

RIO TATARE EN CONDICIONES NATURALES

GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

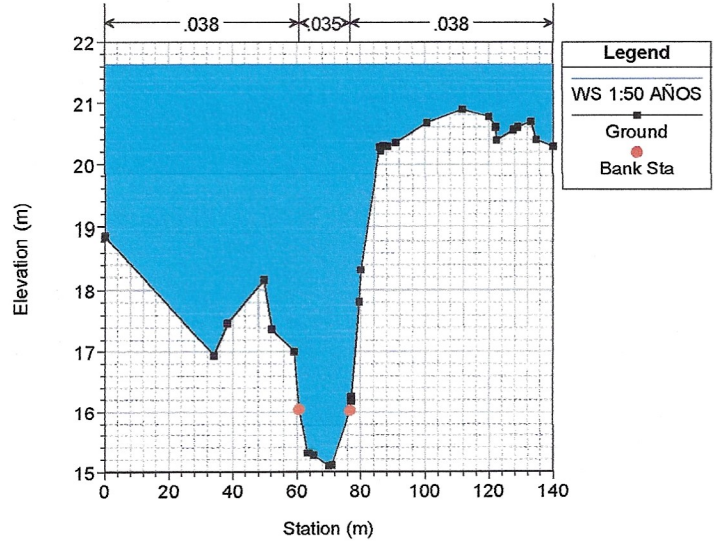
River = RIO TATARE Reach = Rio Tatare RS = 2240



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

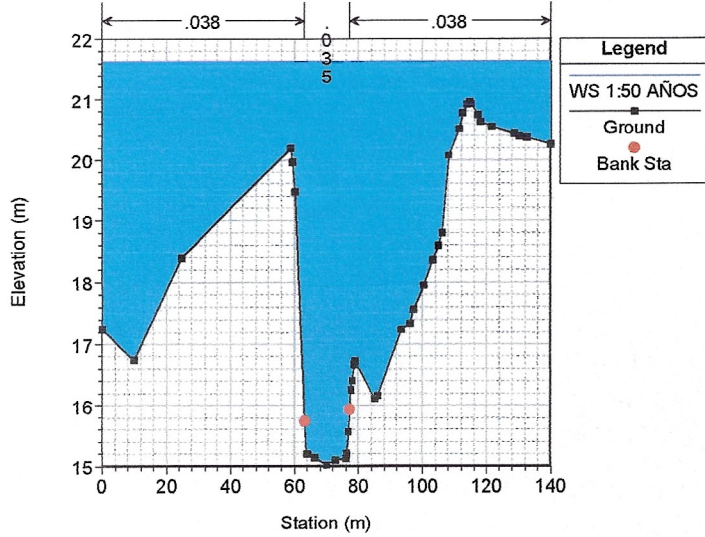
River = RIO TATARE Reach = Rio Tatare RS = 2220



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

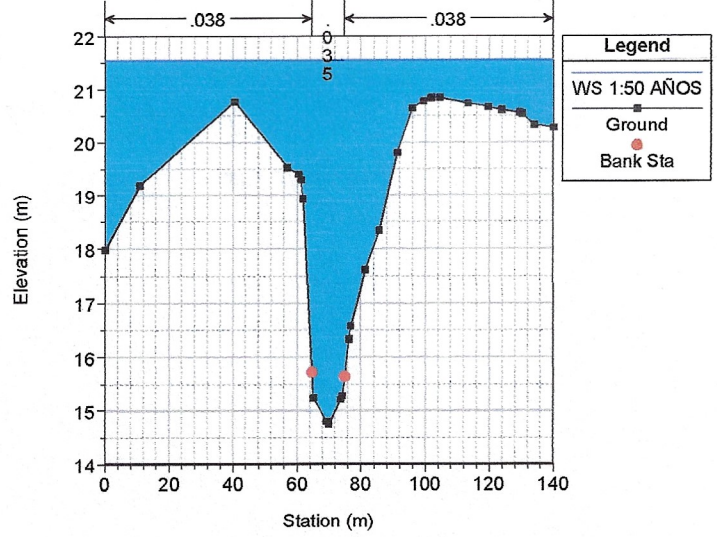
River = RIO TATARE Reach = Rio Tatare RS = 2200



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

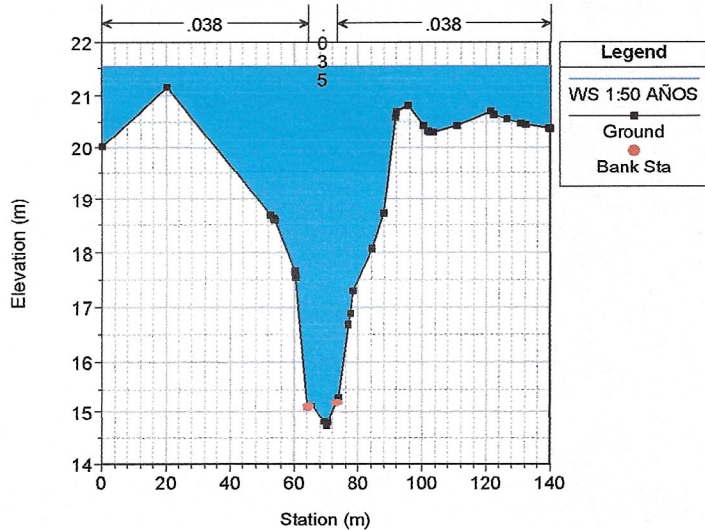
River = RIO TATARE Reach = Rio Tatare RS = 2180



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

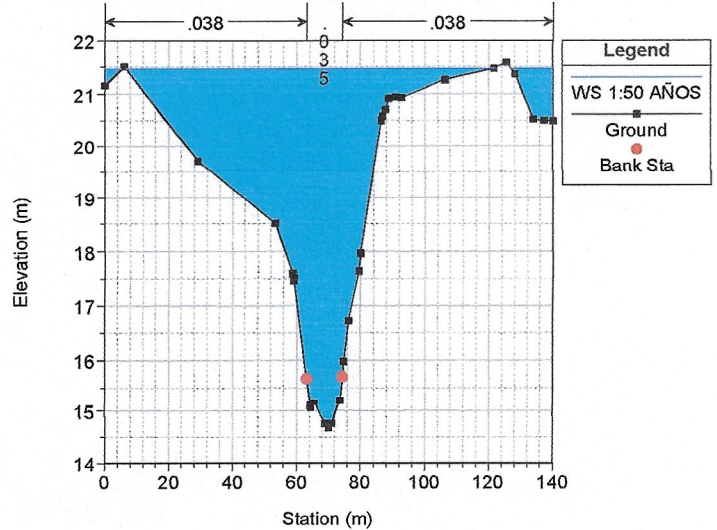
River = RIO TATARE Reach = Rio Tatare RS = 2160



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

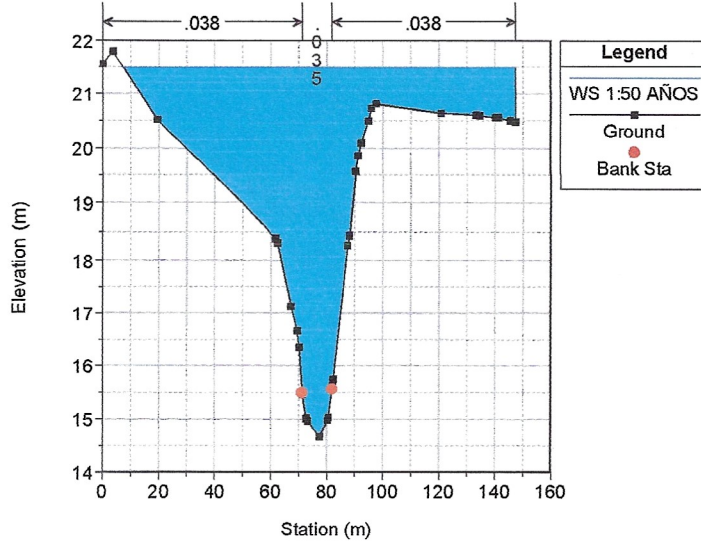
River = RIO TATARE Reach = Rio Tatare RS = 2140



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

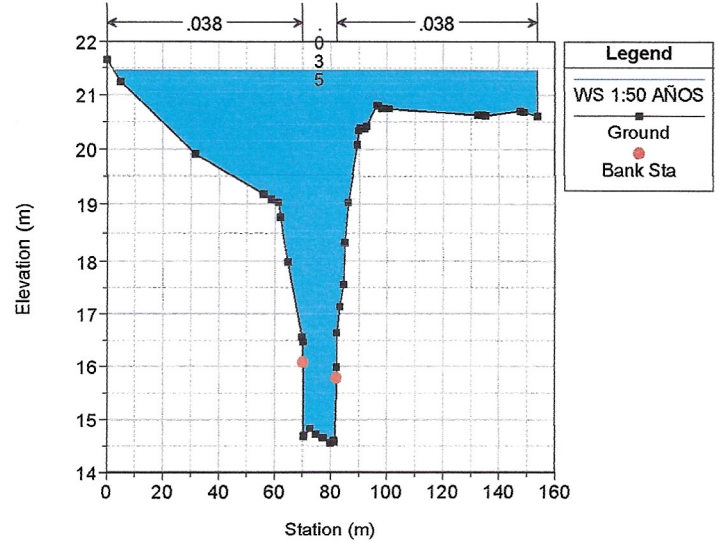
River = RIO TATARE Reach = Rio Tatare RS = 2120



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

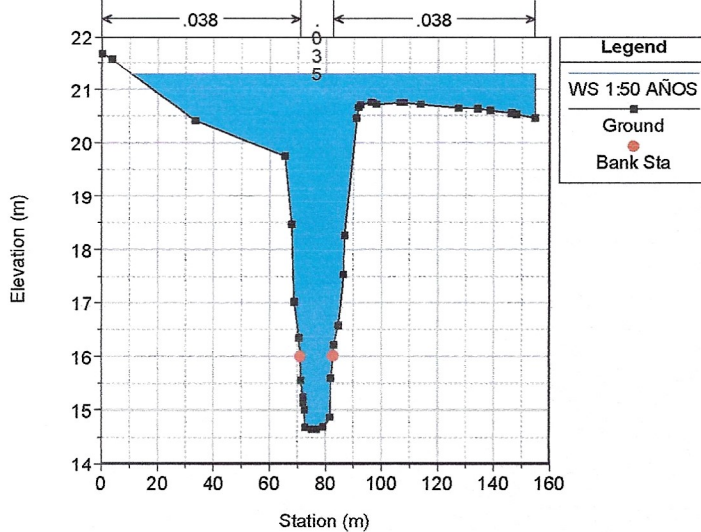
River = RIO TATARE Reach = Rio Tatare RS = 2100



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

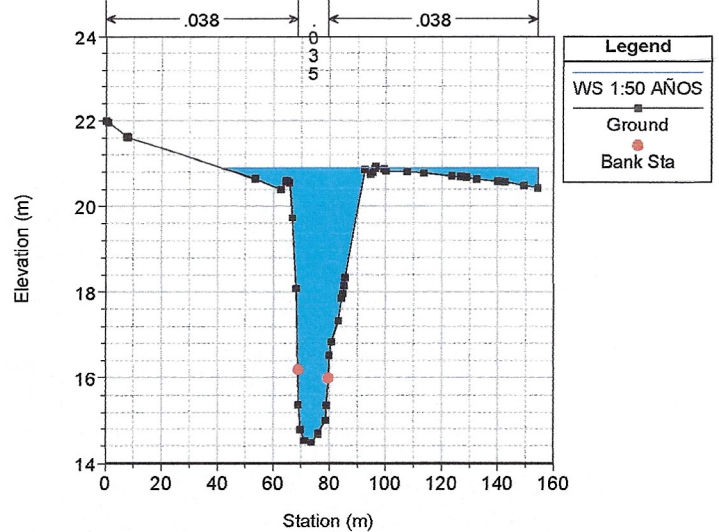
River = RIO TATARE Reach = Rio Tatare RS = 2080



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

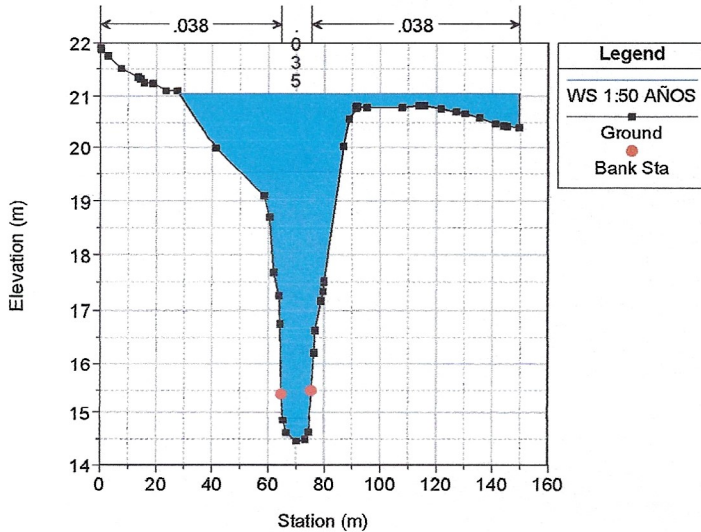
River = RIO TATARE Reach = Rio Tatare RS = 2060



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

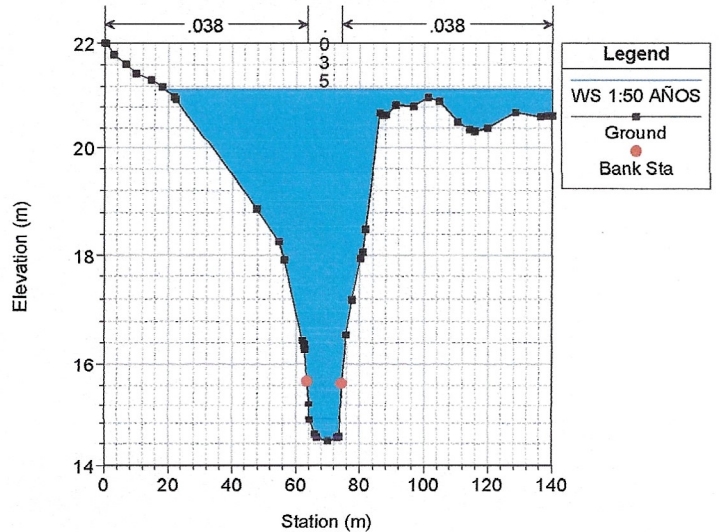
River = RIO TATARE Reach = Rio Tatare RS = 2040



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

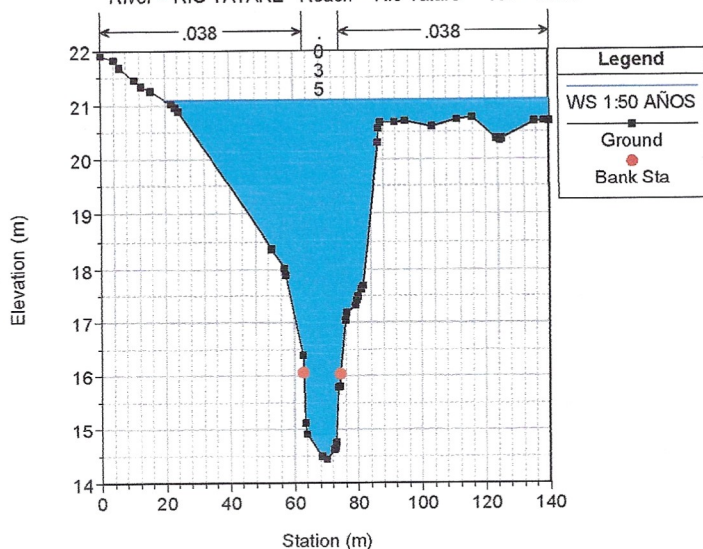
River = RIO TATARE Reach = Rio Tatare RS = 2020



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

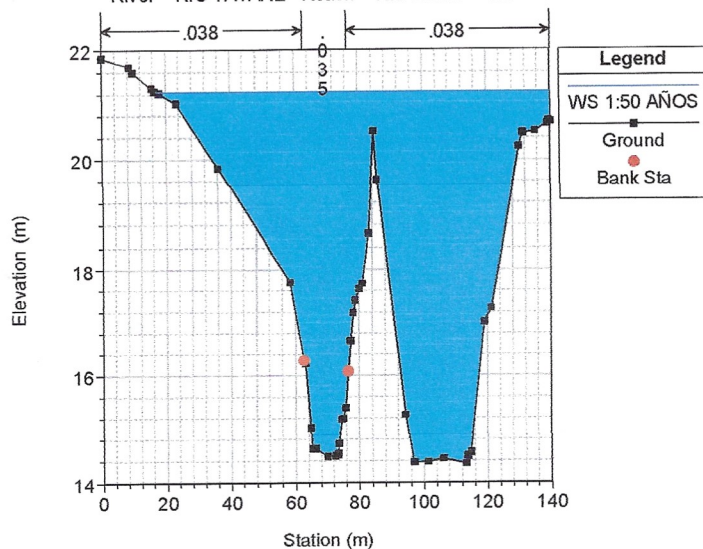
River = RIO TATARE Reach = Rio Tatare RS = 2000



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

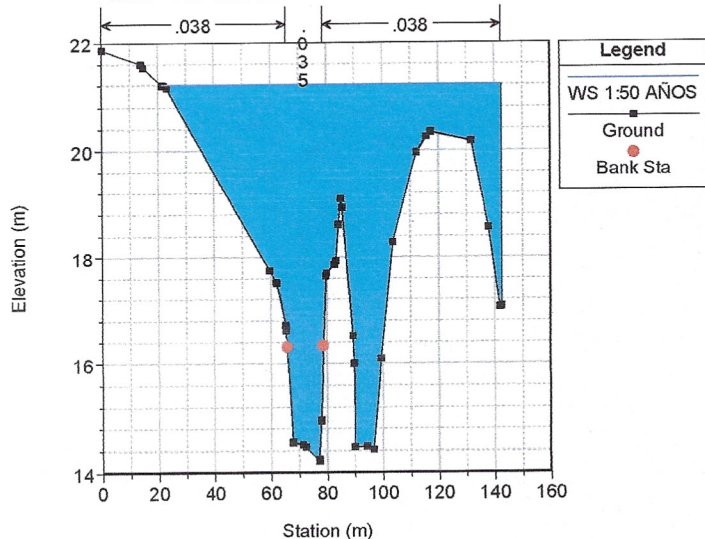
River = RIO TATARE Reach = Rio Tatare RS = 1980



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

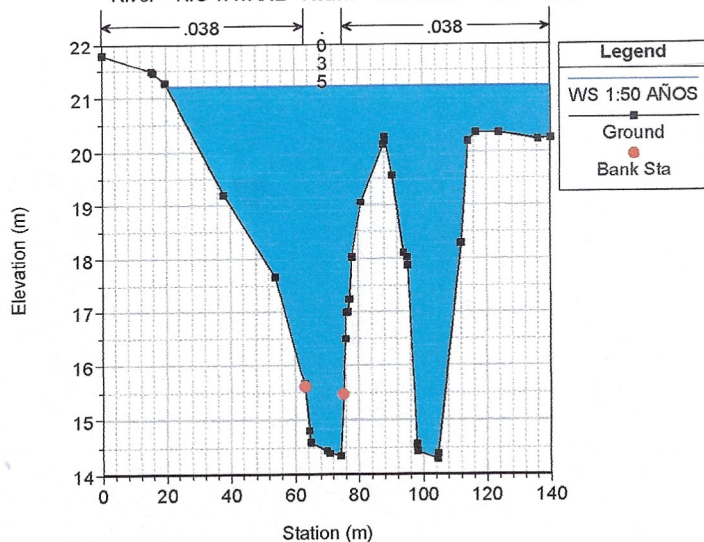
River = RIO TATARE Reach = Rio Tatare RS = 1960



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

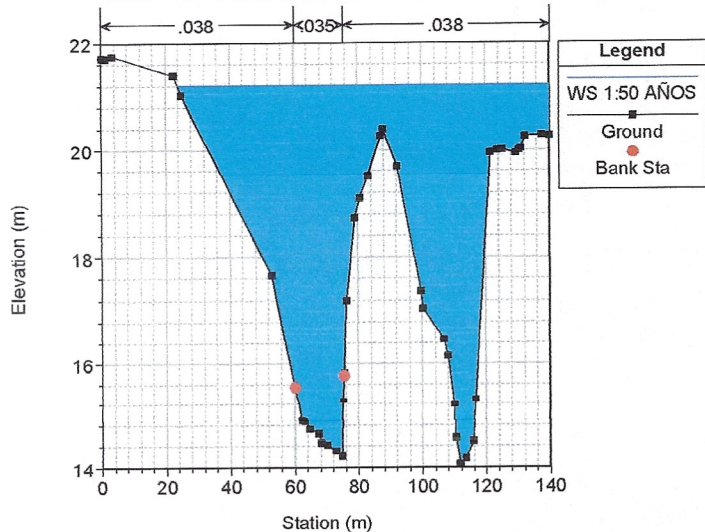
River = RIO TATARE Reach = Rio Tatare RS = 1940



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

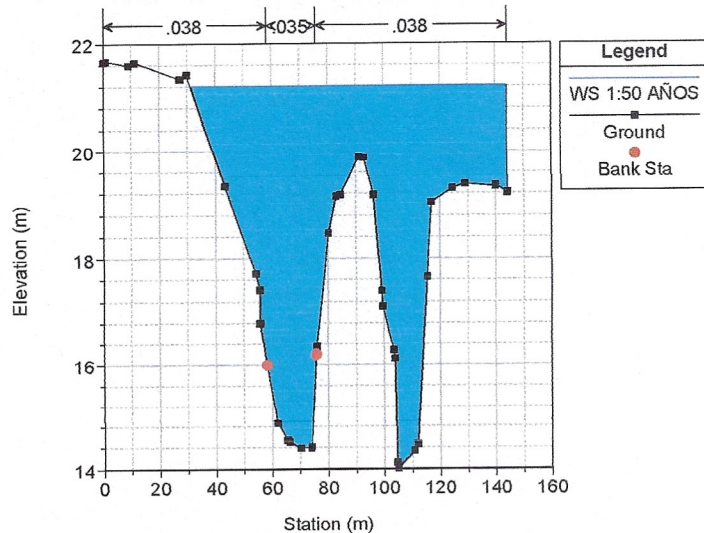
River = RIO TATARE Reach = Rio Tatare RS = 1920



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

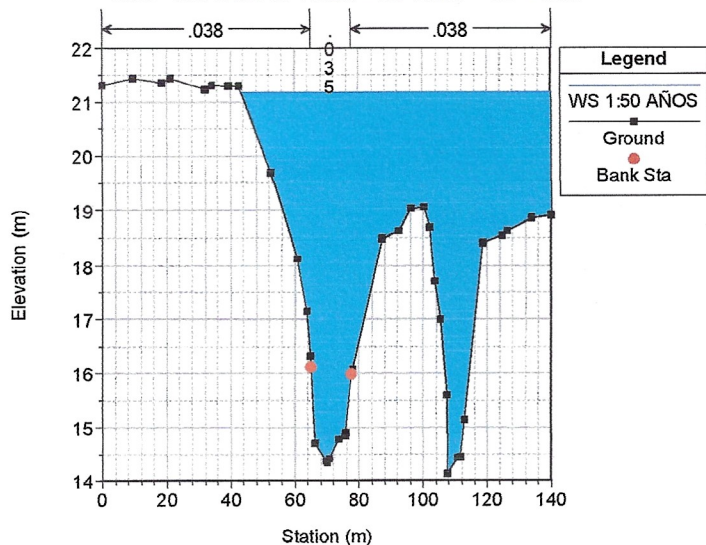
River = RIO TATARE Reach = Rio Tatare RS = 1900



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

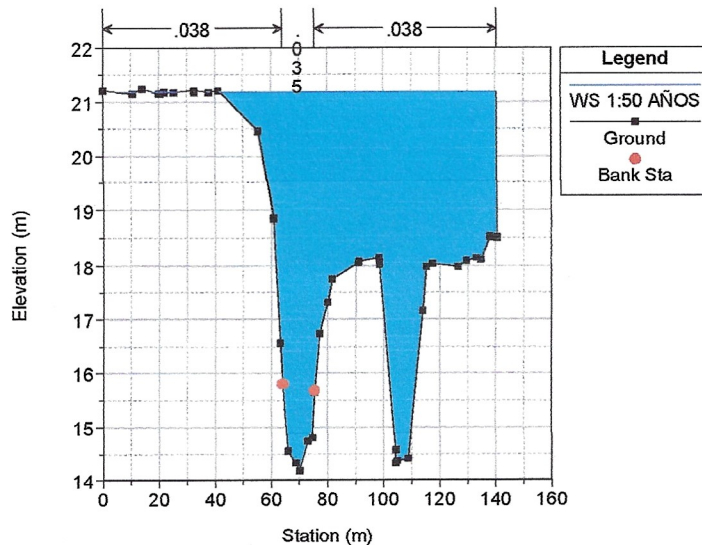
River = RIO TATARE Reach = Rio Tatare RS = 1880



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

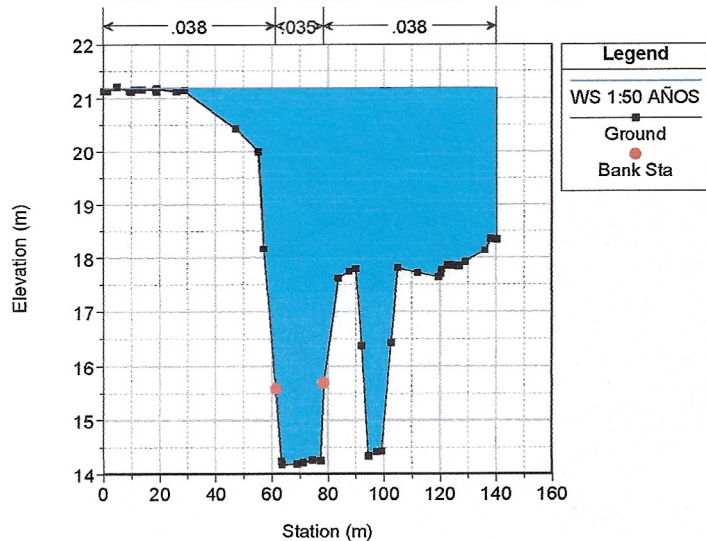
River = RIO TATARE Reach = Rio Tatare RS = 1859.96



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

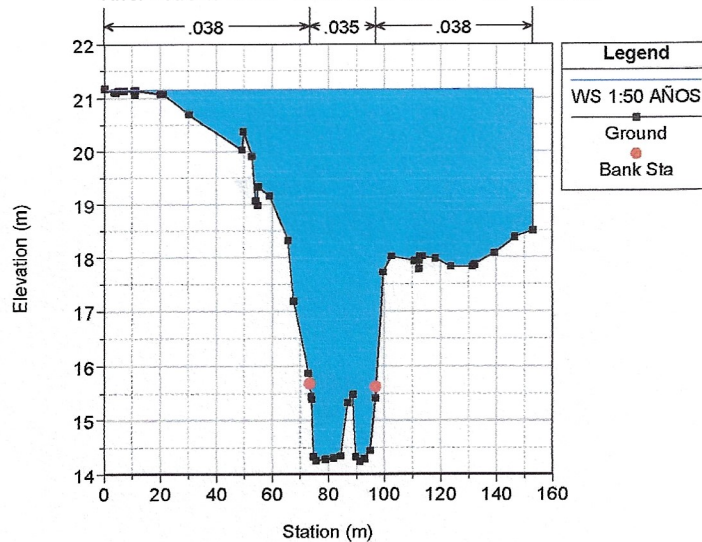
River = RIO TATARE Reach = Rio Tatare RS = 1840



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

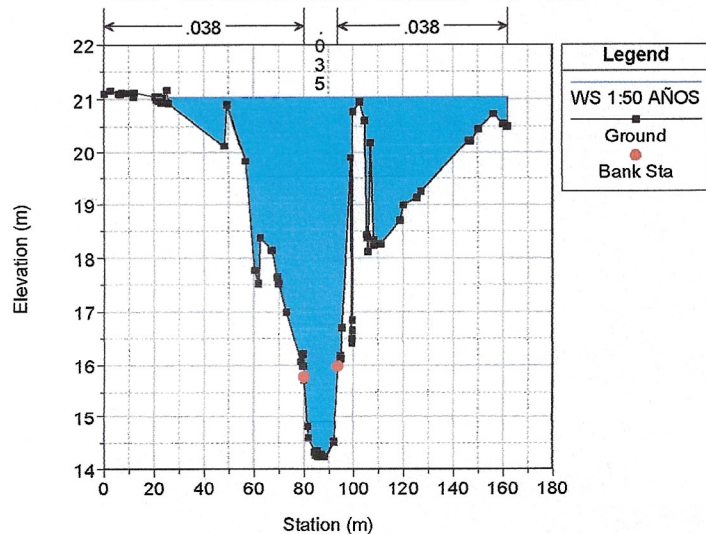
River = RIO TATARE Reach = Rio Tatare RS = 1819.98



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

River = RIO TATARE Reach = Rio Tatare RS = 1800

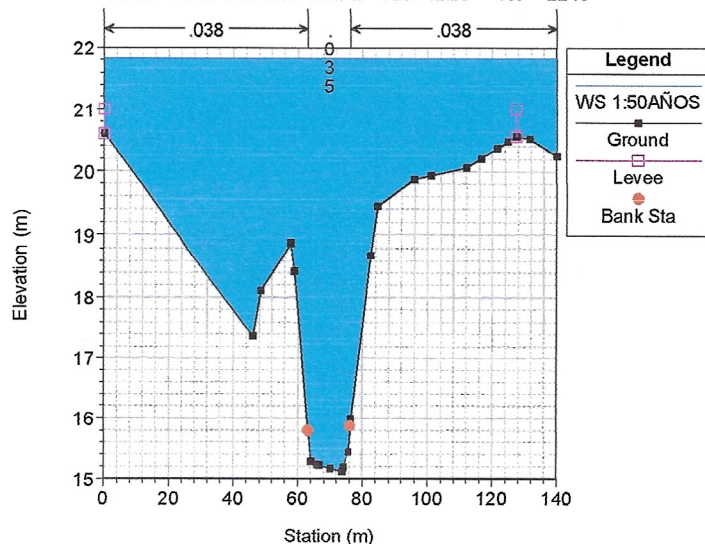


RIO TATARE CON AMBOS PROYECTOS

GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

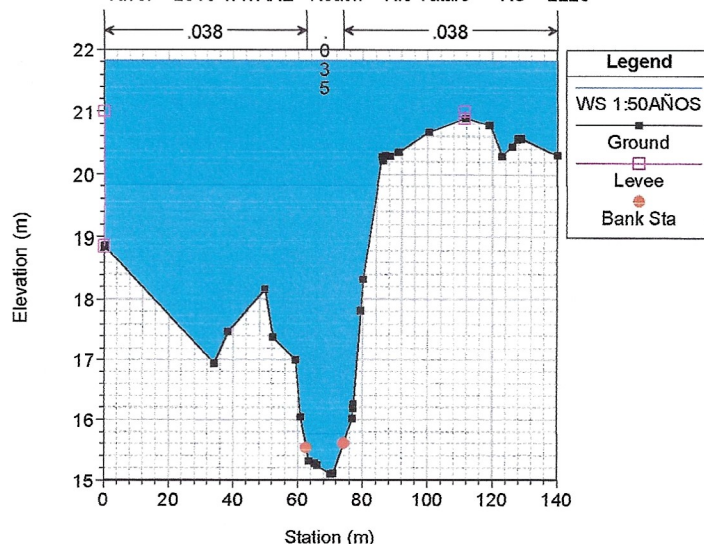
River = 2018 TATARE Reach = Rio Tatare RS = 2240



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

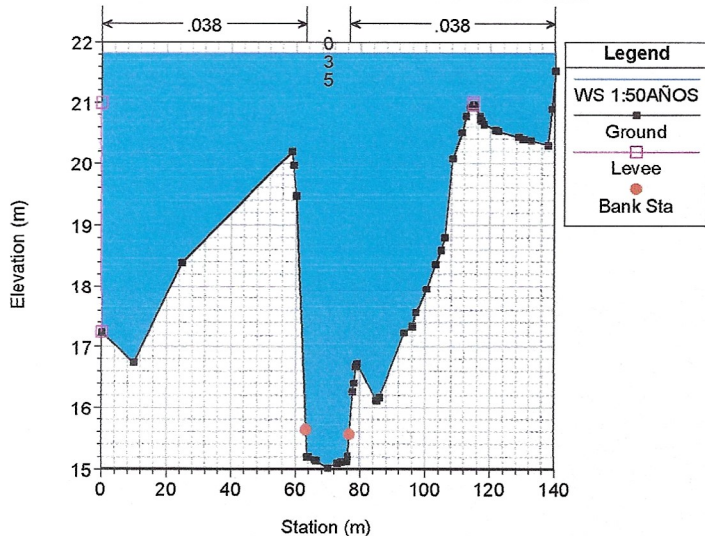
River = 2018 TATARE Reach = Rio Tatare RS = 2220



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

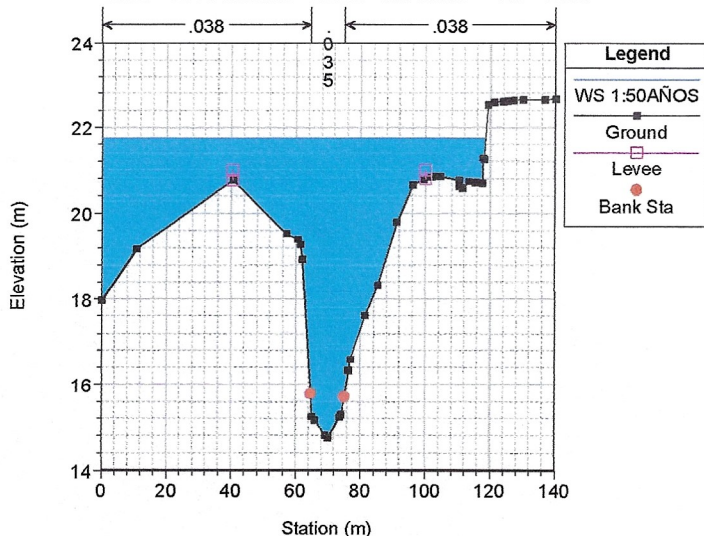
River = 2018 TATARE Reach = Rio Tatare RS = 2200



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

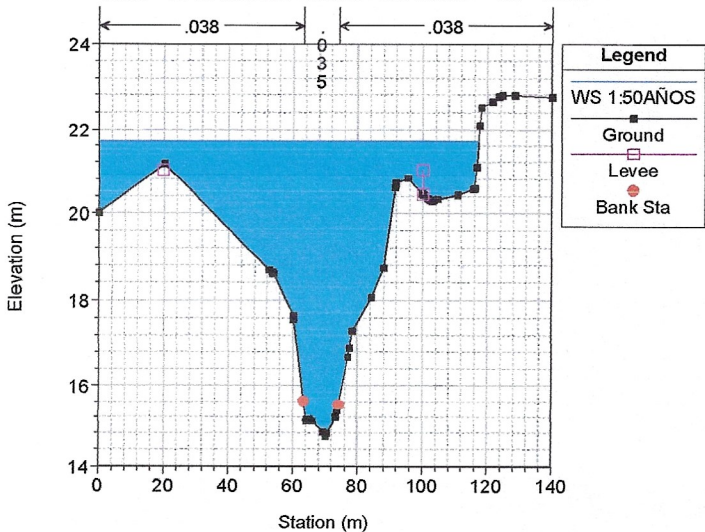
River = 2018 TATARE Reach = Rio Tatare RS = 2180



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

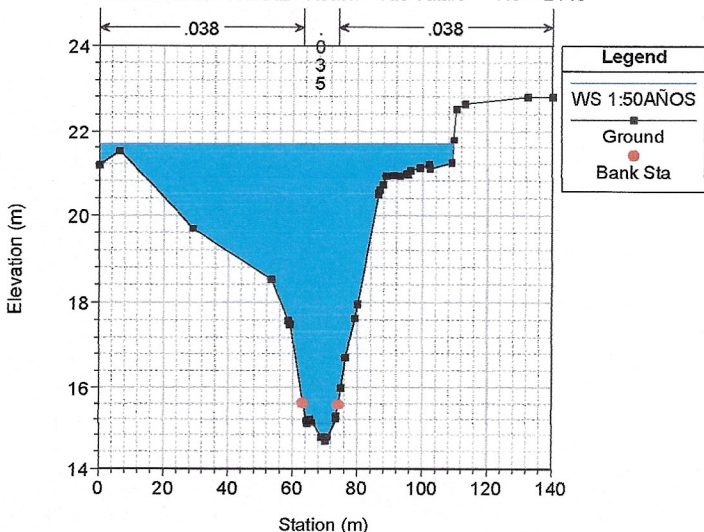
River = 2018 TATARE Reach = Rio Tatare RS = 2160



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

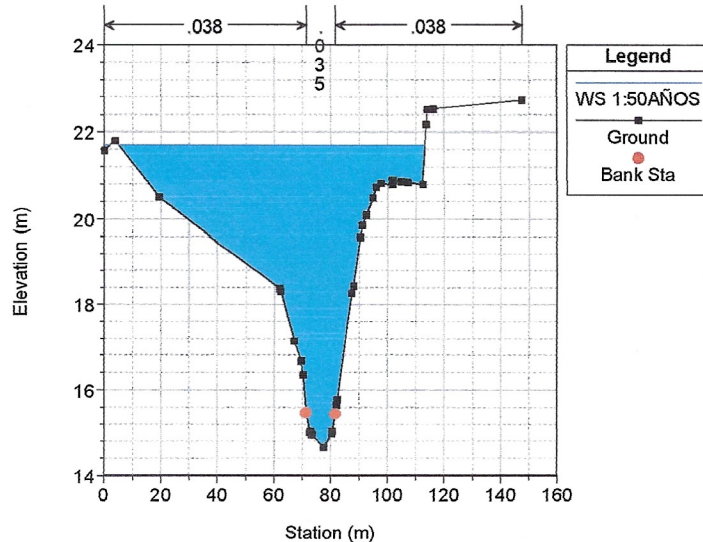
River = 2018 TATARE Reach = Rio Tatare RS = 2140



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

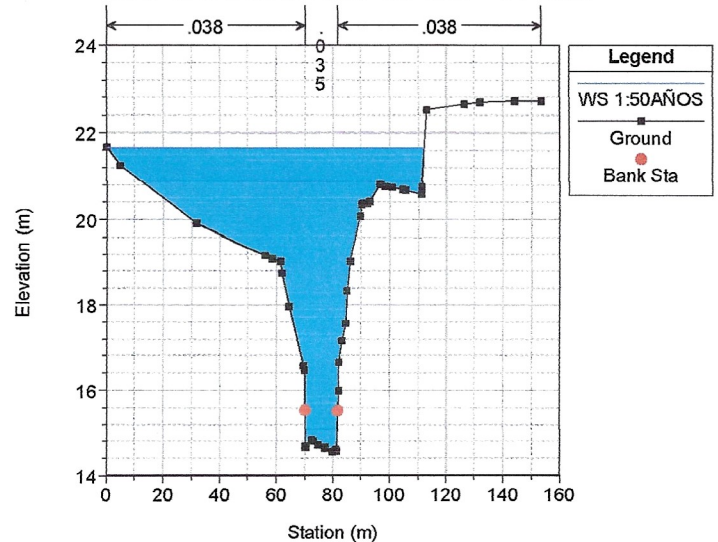
River = 2018 TATARE Reach = Rio Tatare RS = 2120



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

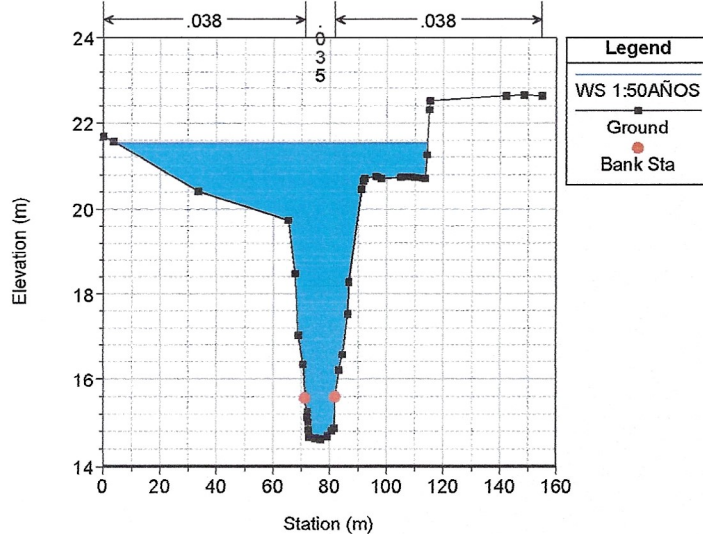
River = 2018 TATARE Reach = Rio Tatare RS = 2100



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

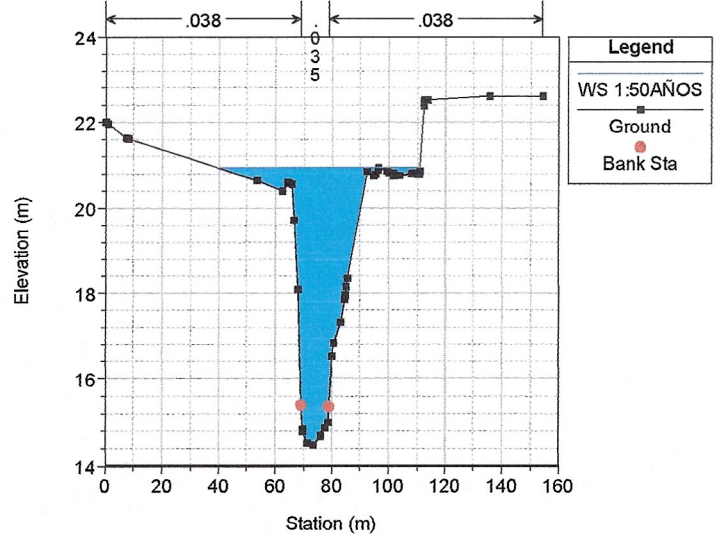
River = 2018 TATARE Reach = Rio Tatare RS = 2080



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

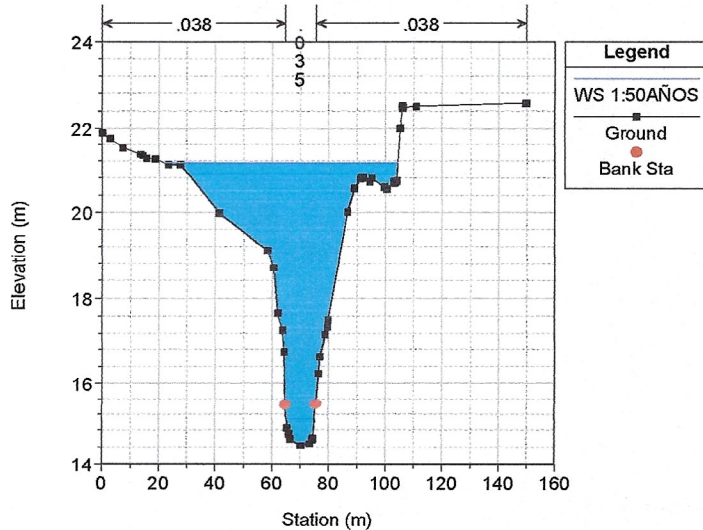
River = 2018 TATARE Reach = Rio Tatare RS = 2060



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

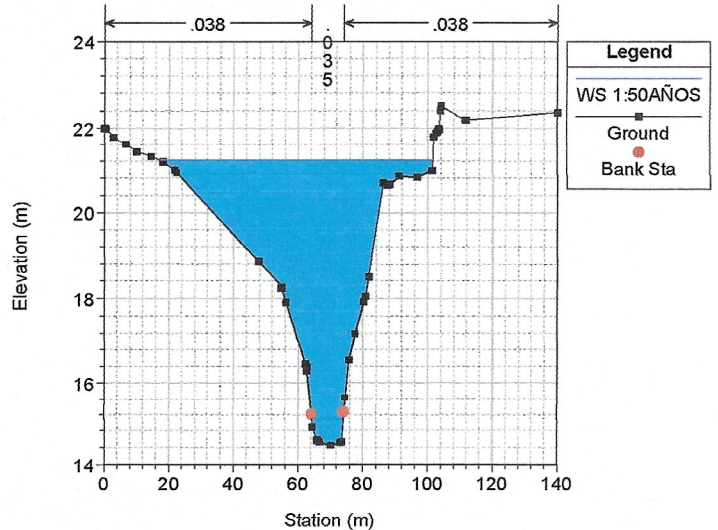
River = 2018 TATARE Reach = Rio Tatare RS = 2040



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

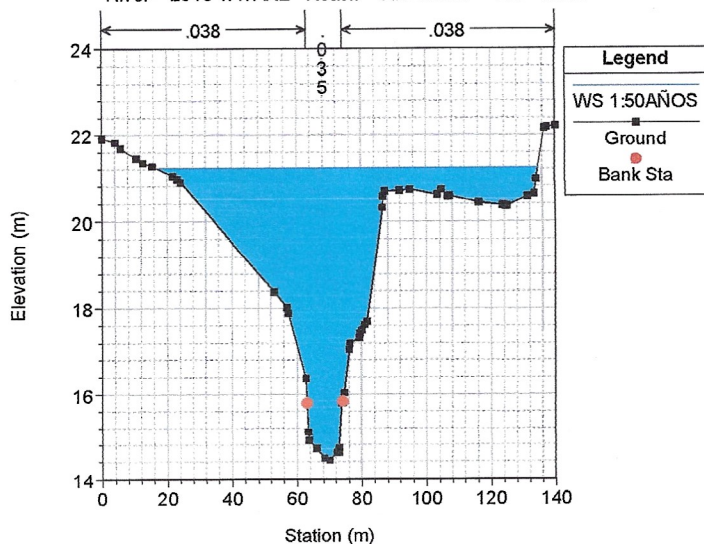
River = 2018 TATARE Reach = Rio Tatare RS = 2020



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

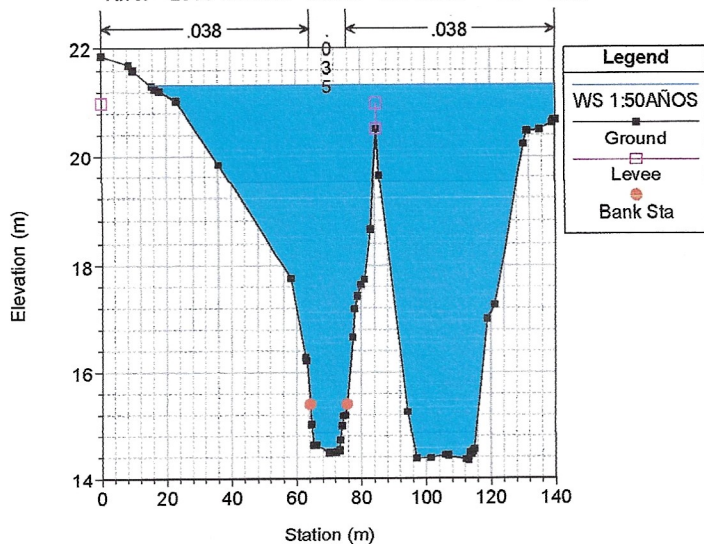
River = 2018 TATARE Reach = Rio Tatare RS = 2000



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

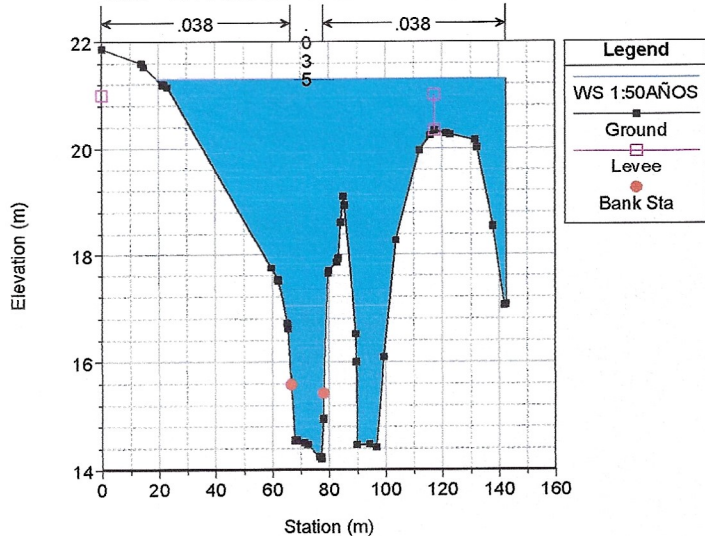
River = 2018 TATARE Reach = Rio Tatare RS = 1980



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

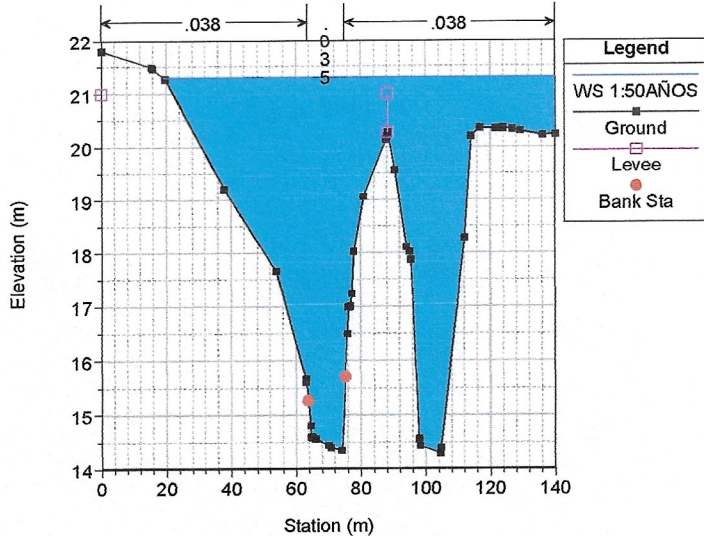
River = 2018 TATARE Reach = Rio Tatare RS = 1960



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

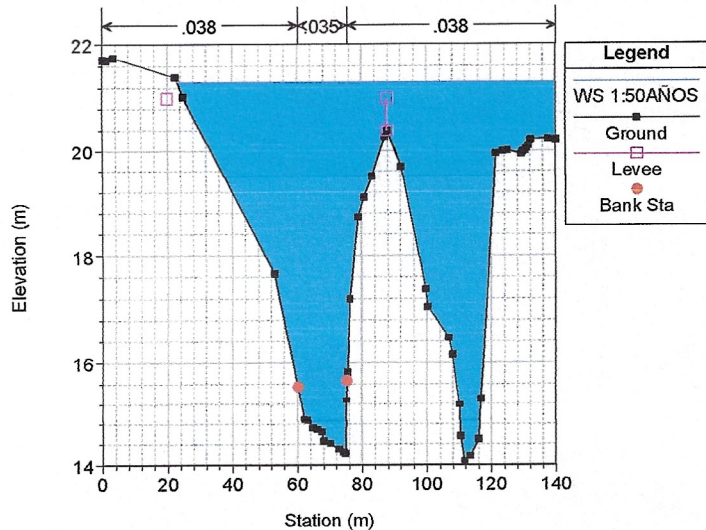
River = 2018 TATARE Reach = Rio Tatare RS = 1940



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

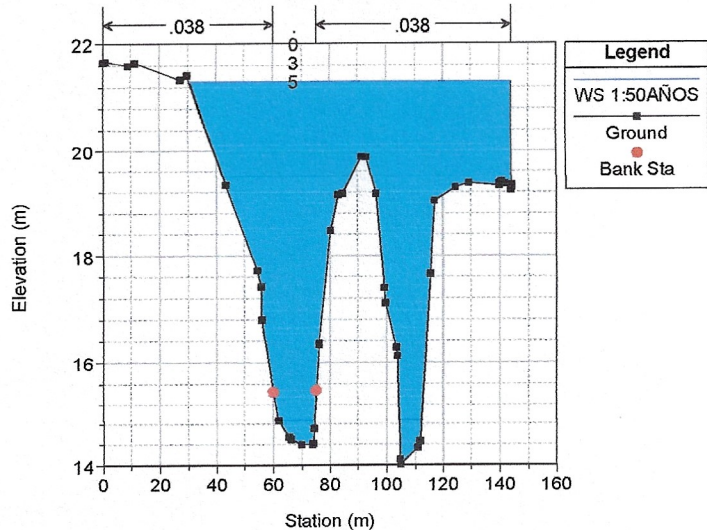
River = 2018 TATARE Reach = Rio Tatare RS = 1920



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

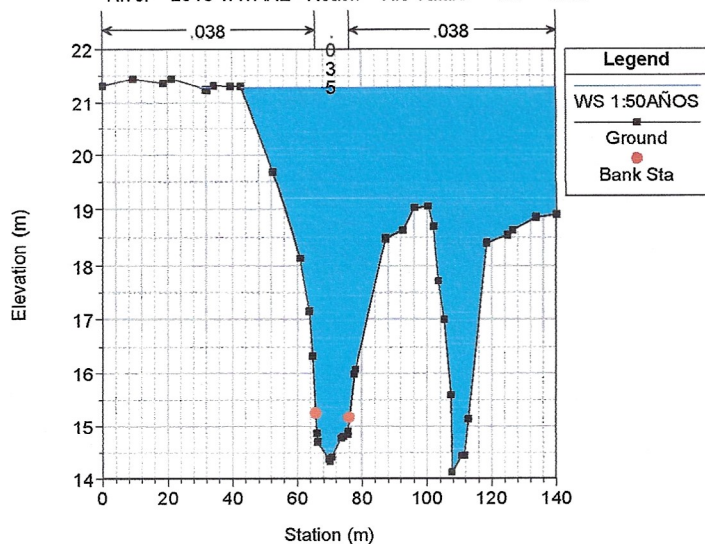
River = 2018 TATARE Reach = Rio Tatare RS = 1900



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

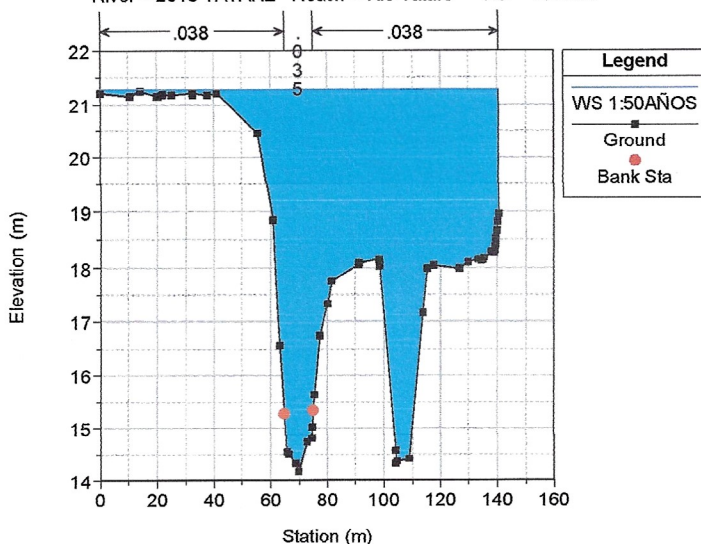
River = 2018 TATARE Reach = Rio Tatare RS = 1880



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

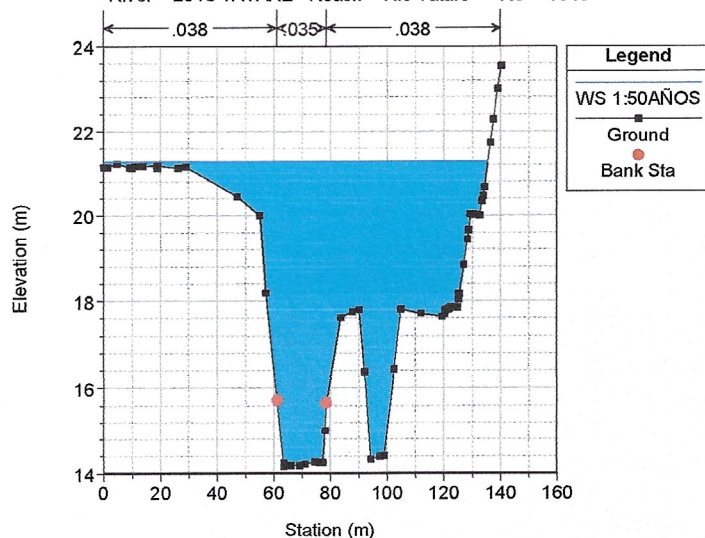
River = 2018 TATARE Reach = Rio Tatare RS = 1859.96



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

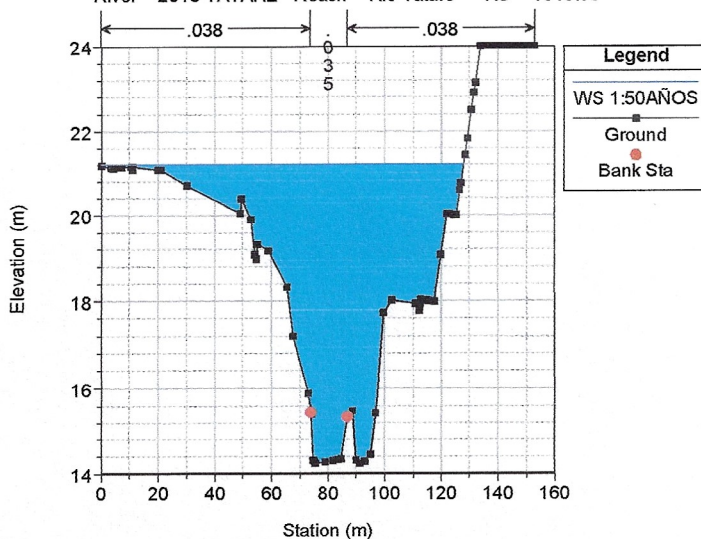
River = 2018 TATARE Reach = Rio Tatare RS = 1840



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

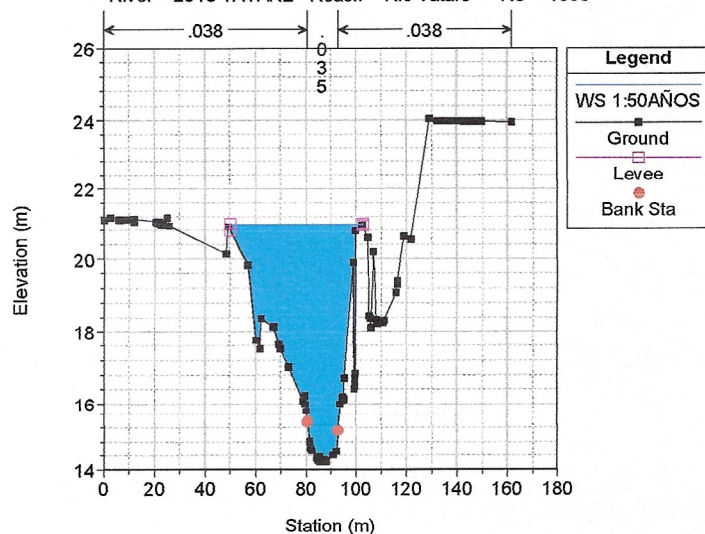
River = 2018 TATARE Reach = Rio Tatare RS = 1819.98



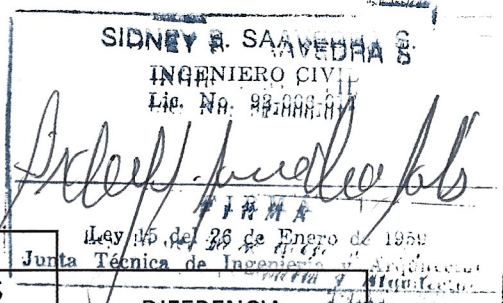
GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

River = 2018 TATARE Reach = Rio Tatare RS = 1800



RIO TATARE
COMPARACION DE NIVELES DE CRECIDA



CONDICION SIN PROYECTO		CONDICION CON PROYECTO		DIFERENCIA
ESTACION	NIVEL DE AGUAS MAXIMO ESTIMADO	ESTACION	NIVEL DE AGUAS MAXIMO ESTIMADO	
2240	21.63	2240	21.82	0.19
2220	21.64	2220	21.82	0.18
2200	21.64	2200	21.82	0.18
2180	21.55	2180	21.74	0.19
2160	21.53	2160	21.73	0.20
2140	21.47	2140	21.69	0.22
2120	21.49	2120	21.69	0.20
2100	21.46	2100	21.66	0.20
2080	21.3	2080	21.52	0.22
2060	20.91	2060	20.95	0.04
2040	21.04	2040	21.15	0.11
2020	21.13	2020	21.22	0.09
2000	21.12	2000	21.23	0.11
1980	21.24	1980	21.33	0.09
1960	21.21	1960	21.3	0.09
1940	21.21	1940	21.3	0.09
1920	21.21	1920	21.3	0.09
1900	21.2	1900	21.3	0.10
1880	21.19	1880	21.28	0.09
1860	21.19	1860	21.28	0.09
1840	21.19	1840	21.28	0.09
1820	21.16	1820	21.21	0.05
1800	21.03	1800	20.98	-0.05
1780	20.79	1780	20.69	-0.10
1760	20.47	1760	20.5	0.03
1740	20.5	1740	20.56	0.06
1720	20.62	1720	20.66	0.04
1700	19.54	1700	19.64	0.10
1680	19.82	1680	19.88	0.06
1660	19.95	1660	20.03	0.08
1640	20.04	1640	20.12	0.08
1620	19.99	1620	20.06	0.07
1600	19.92	1600	19.93	0.01
1580	19.92	1580	19.97	0.05
1560	19.9	1560	19.89	-0.01
1540	19.82	1540	19.87	0.05
1520	19.66	1520	19.71	0.05
1500	19.74	1500	19.77	0.03

CONDICION SIN PROYECTO		CONDICION CON PROYECTO		DIFERENCIA
ESTACION	NIVEL DE AGUAS MAXIMO ESTIMADO	ESTACION	NIVEL DE AGUAS MAXIMO ESTIMADO	
1480	19.75	1480	19.8	0.05
1460	19.74	1460	19.79	0.05
1420	19.81	1420	19.86	0.05
1400	19.85	1400	19.9	0.05
1380	19.83	1380	19.88	0.05
1360	19.82	1360	19.87	0.05
1340	19.73	1340	19.79	0.06
1320	19.72	1320	19.78	0.06
1300	19.69	1300	19.75	0.06
1280	19.68	1280	19.75	0.07
1260	19.69	1260	19.76	0.07
1240	19.68	1240	19.75	0.07
1220	19.67	1220	19.73	0.06
1200	19.56	1200	19.64	0.08
1180	19.47	1180	19.55	0.08
1160	19.45	1160	19.53	0.08
1140	19.44	1140	19.53	0.09
1120	19.45	1120	19.53	0.08
1100	19.42	1100	19.5	0.08
1080	19.42	1080	19.5	0.08
1060	19.39	1060	19.48	0.09
1040	19.39	1040	19.47	0.08
1020	19.36	1020	19.45	0.09
1000	19.38	1000	19.47	0.09
980	19.38	980	19.47	0.09
960	19.37	960	19.46	0.09
940	19.39	940	19.47	0.08
920	19.37	920	19.46	0.09
900	19.38	900	19.46	0.08
880	19.38	880	19.46	0.08
860	19.28	860	19.38	0.10
840	19.27	840	19.37	0.10
820	19.24	820	19.34	0.10
800	19.24	800	19.34	0.10
780	19.22	780	19.33	0.11
760	19.2	760	19.31	0.11
740	19.2	740	19.31	0.11
720	19.25	720	19.35	0.10
700	19.21	700	19.32	0.11
680	19.14	680	19.26	0.12
660	19.14	660	19.26	0.12

SIDNEY S. SAAVEDRA S.

INGENIERO CIVIL
Lic. No. 02-006-017

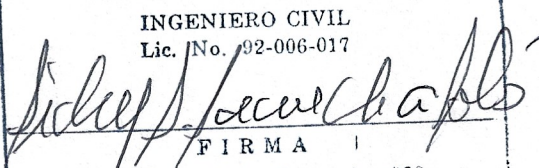
Sidney S. Saavedra S.

FIRMA

Ley 16 del 26 de Enero de 1959

Junta Técnica de Ingeniería y Arquitectura

CONDICION SIN PROYECTO		CONDICION CON PROYECTO		DIFERENCIA
ESTACION	NIVEL DE AGUAS MAXIMO ESTIMADO	ESTACION	NIVEL DE AGUAS MAXIMO ESTIMADO	
640	19.13	640	19.25	0.12
620	19.13	620	19.25	0.12
600	19.12	600	19.24	0.12
580	19.1	580	19.22	0.12
540	19	540	19.14	0.14
520	18.99	520	19.14	0.15
500	18.9	500	19.07	0.17
480	18.8	480	18.97	0.17
460	18.89	460	19.05	0.16
440	18.91	440	19.07	0.16
420	18.92	420	19.08	0.16
400	18.92	400	19.08	0.16
380	18.92	380	19.08	0.16
360	18.92	360	19.08	0.16
340	18.93	340	19.08	0.15
320	18.94	320	19.09	0.15
300	18.91	300	19.07	0.16
280	18.89	280	19.05	0.16
260	18.87	260	19.03	0.16
240	18.86	240	19.03	0.17
220	18.86	220	19.03	0.17
200	18.84	200	19.01	0.17
180	18.81	180	18.98	0.17
160	18.74	160	18.94	0.20
140	18.74	140	18.93	0.19
120	18.5	120	18.74	0.24
100	18.54	100	18.78	0.24
80	18.59	80	18.81	0.22
60	18.59	60	18.81	0.22
40	18.58	40	18.79	0.21
20	18.57	20	18.79	0.22
0	18.5	0	18.5	0.00

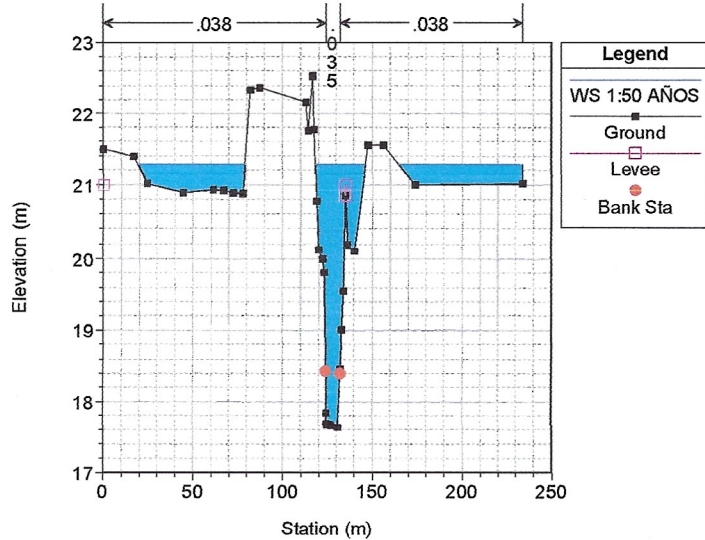
SIDNEY S. SAAVEDRA S.
 INGENIERO CIVIL
 Lic. No. 92-006-017

 F I R M A
 Ley 15 del 26 de Enero de 1959
 Junta Técnica de Ingeniería y Arquitectura

**QUEBRADA MALENGUE EN CONDICIÓN
NATURAL**

GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

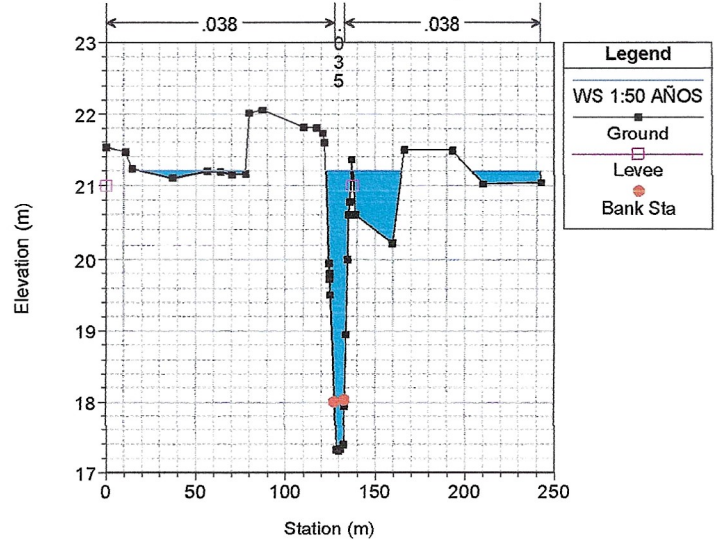
River = MALENGUE2018 Reach = malengue RS = 1460



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

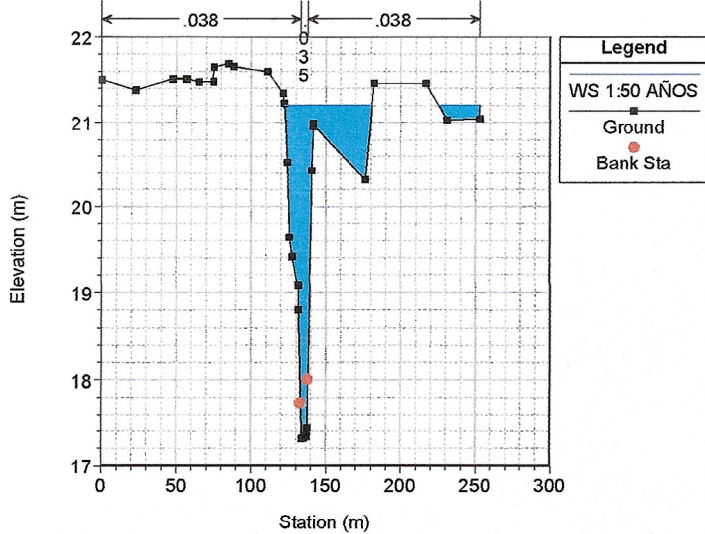
River = MALENGUE2018 Reach = malengue RS = 1440



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

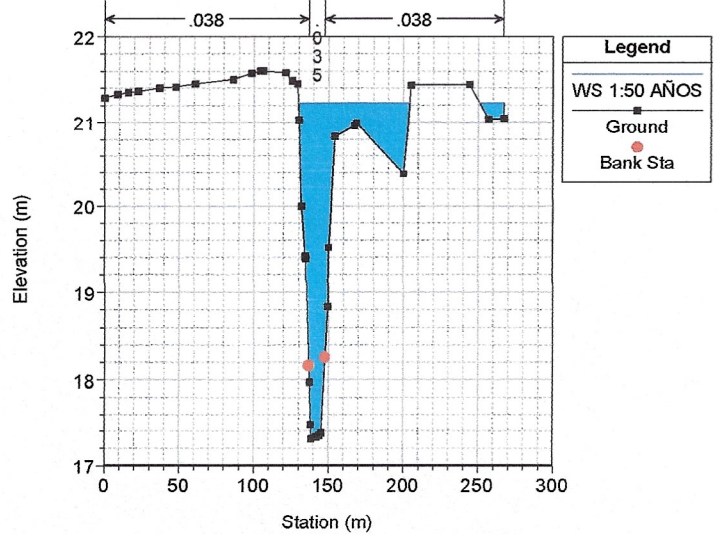
River = MALENGUE2018 Reach = malengue RS = 1420



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

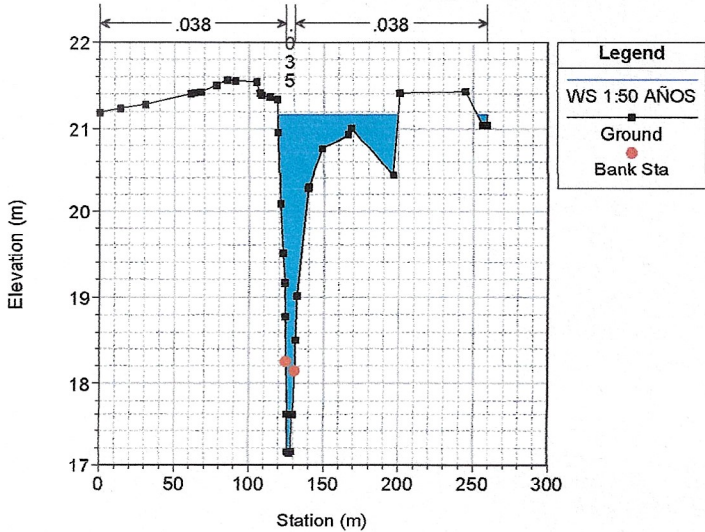
River = MALENGUE2018 Reach = malengue RS = 1400



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

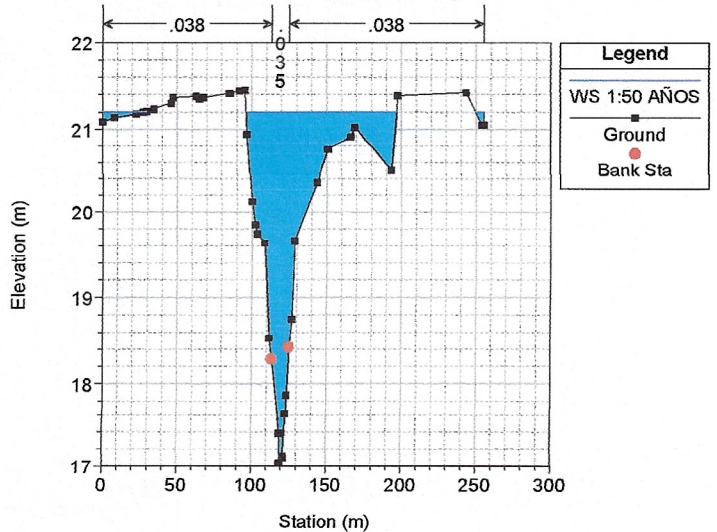
River = MALENGUE2018 Reach = malengue RS = 1380



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

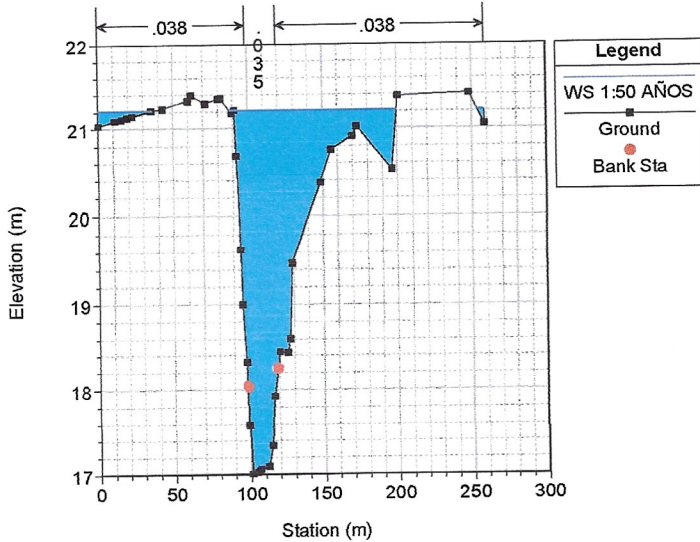
River = MALENGUE2018 Reach = malengue RS = 1360



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

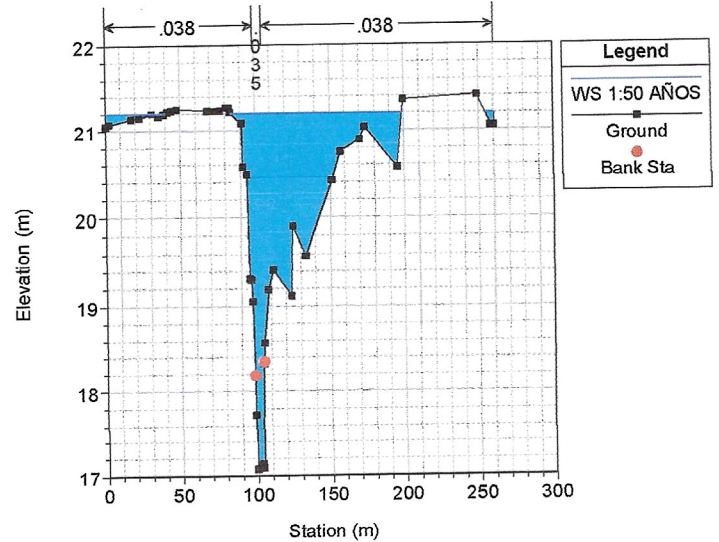
River = MALENGUE2018 Reach = malengue RS = 1340



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

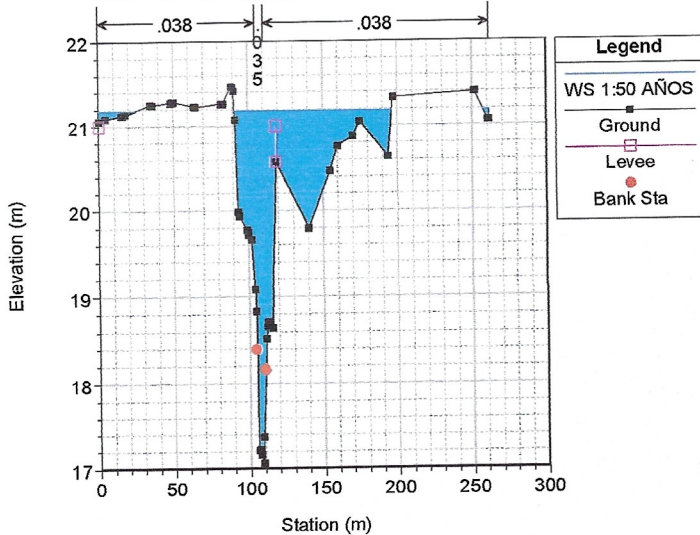
River = MALENGUE2018 Reach = malengue RS = 1320



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

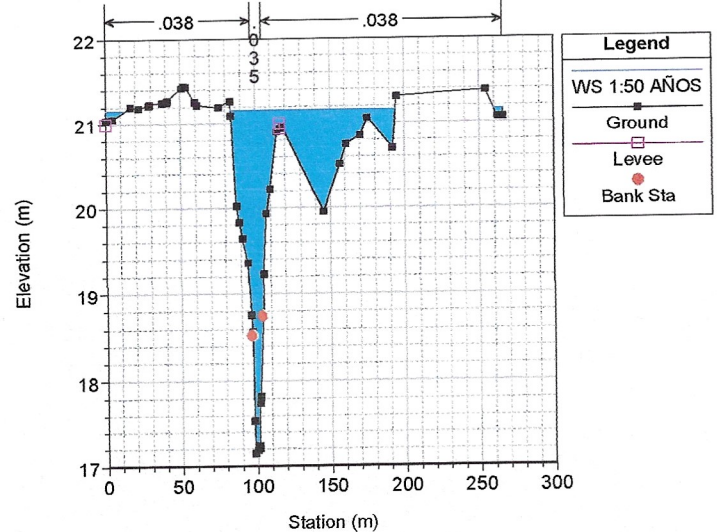
River = MALENGUE2018 Reach = malengue RS = 1300



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

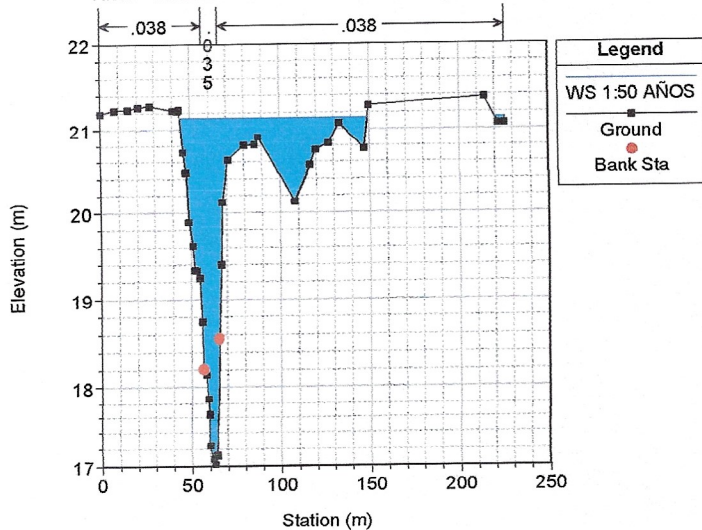
River = MALENGUE2018 Reach = malengue RS = 1280



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

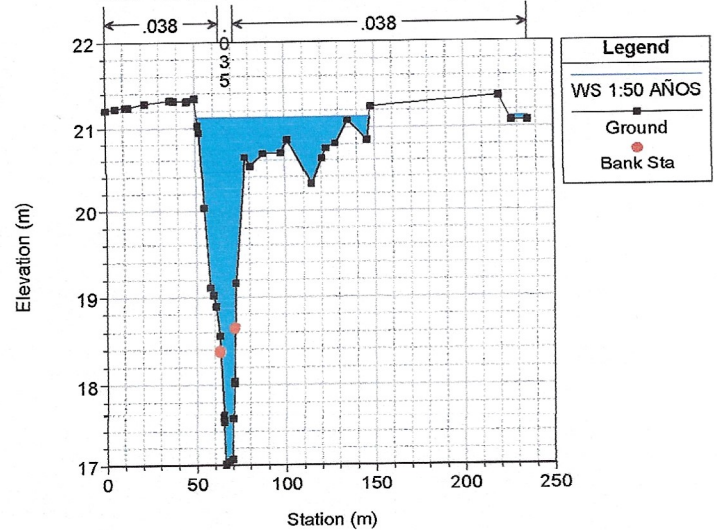
River = MALENGUE2018 Reach = malengue RS = 1260



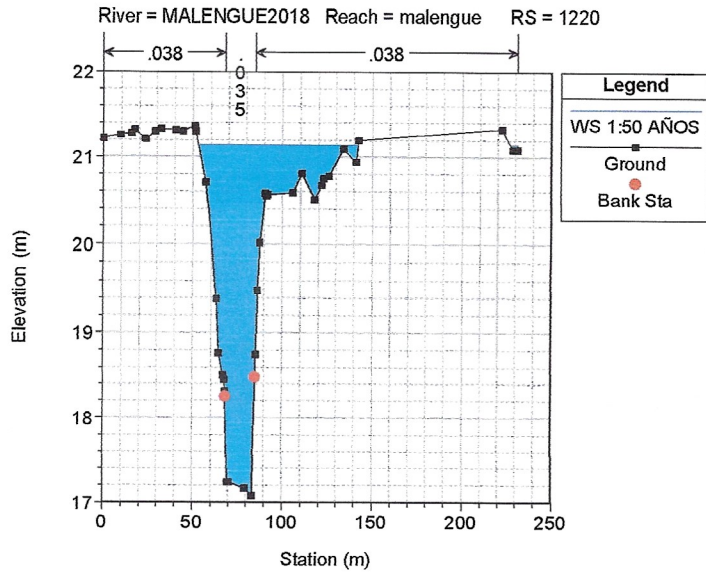
GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

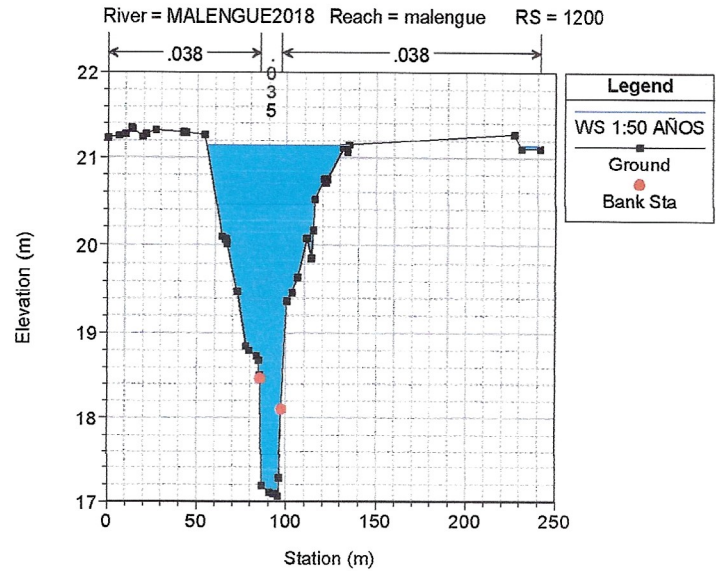
River = MALENGUE2018 Reach = malengue RS = 1240



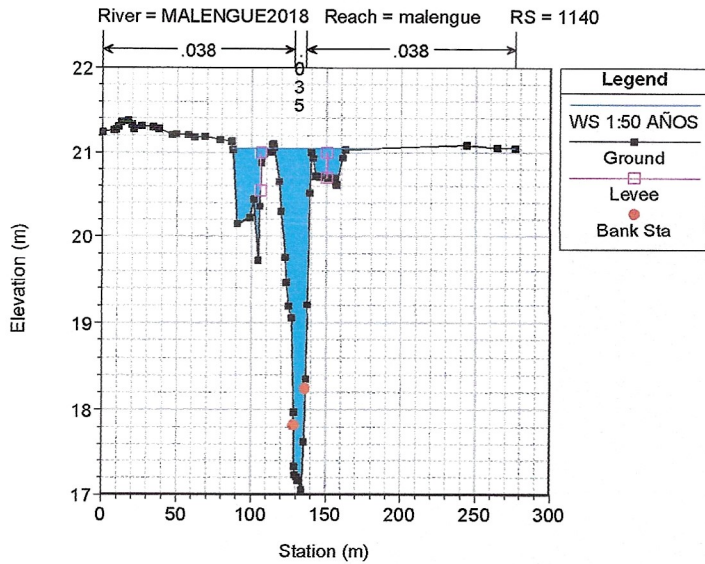
GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020
Geom: SUPERFICIE TN 2018



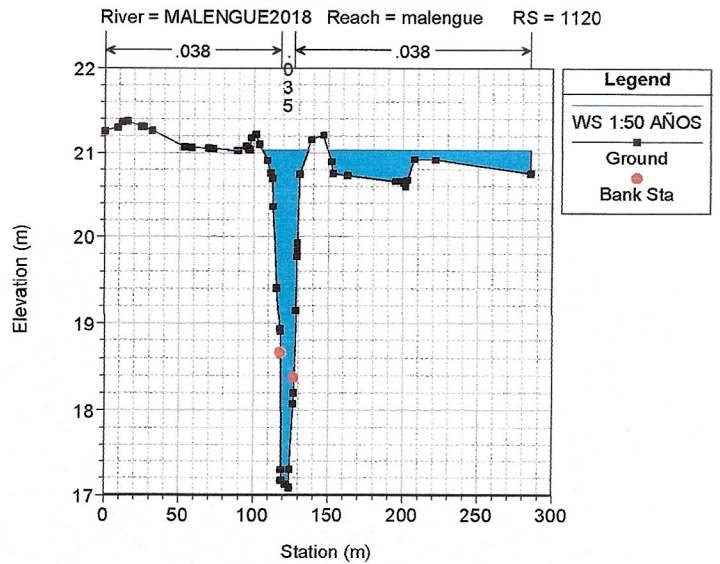
GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020
Geom: SUPERFICIE TN 2018



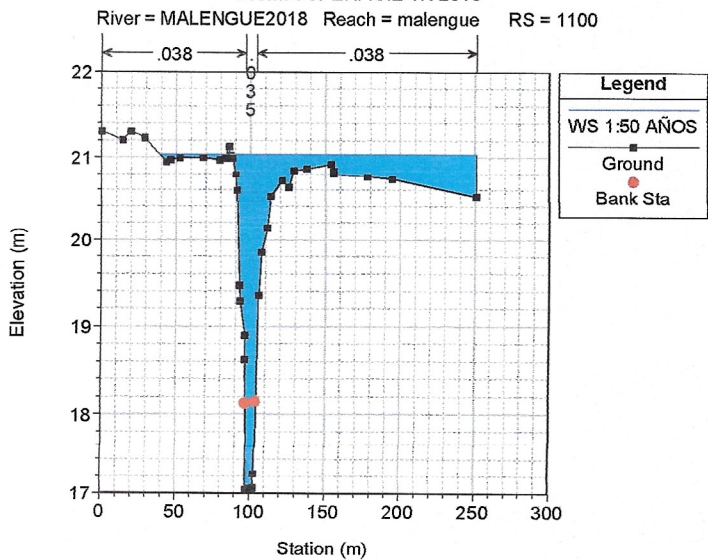
GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020
Geom: SUPERFICIE TN 2018



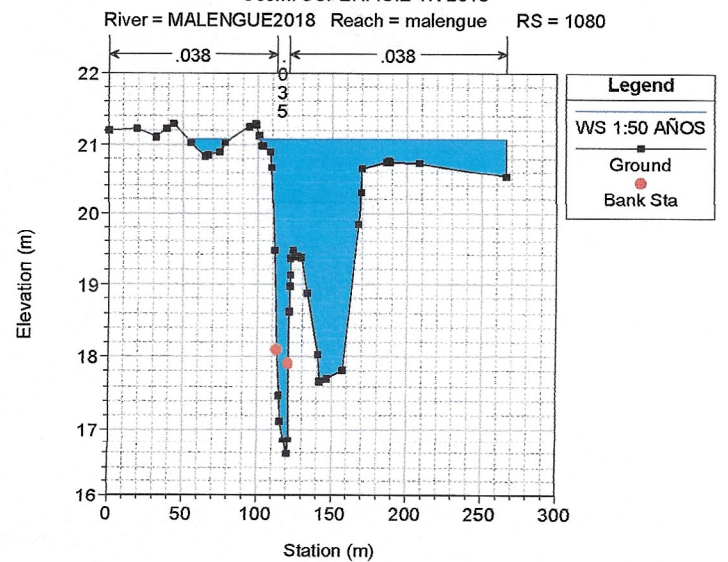
GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020
Geom: SUPERFICIE TN 2018



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020
Geom: SUPERFICIE TN 2018



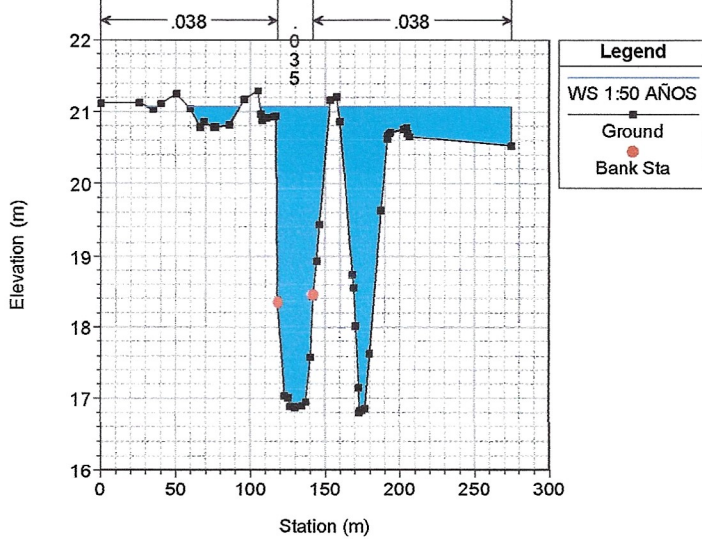
GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020
Geom: SUPERFICIE TN 2018



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

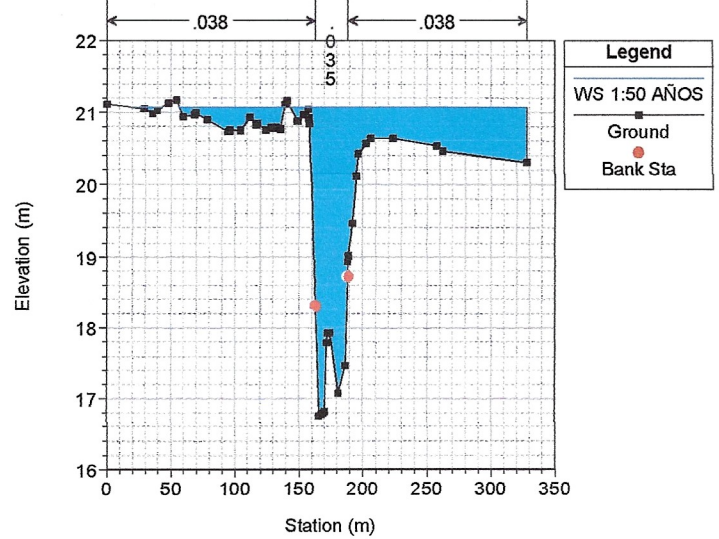
River = MALENGUE2018 Reach = malengue RS = 1000



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

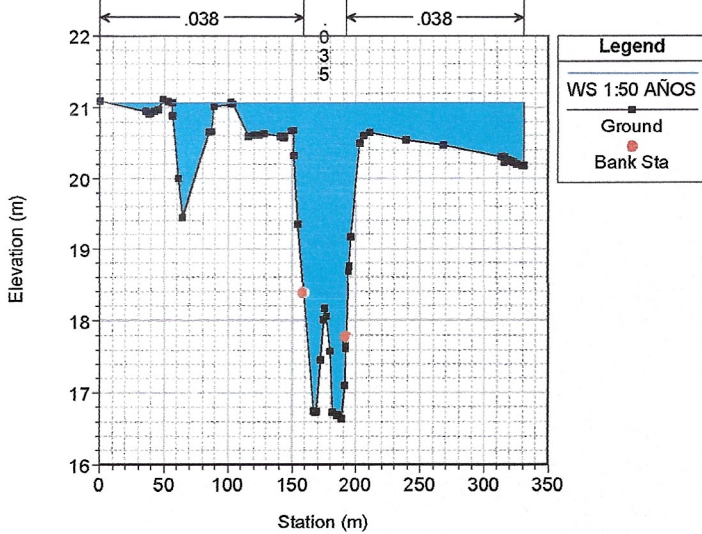
River = MALENGUE2018 Reach = malengue RS = 980



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

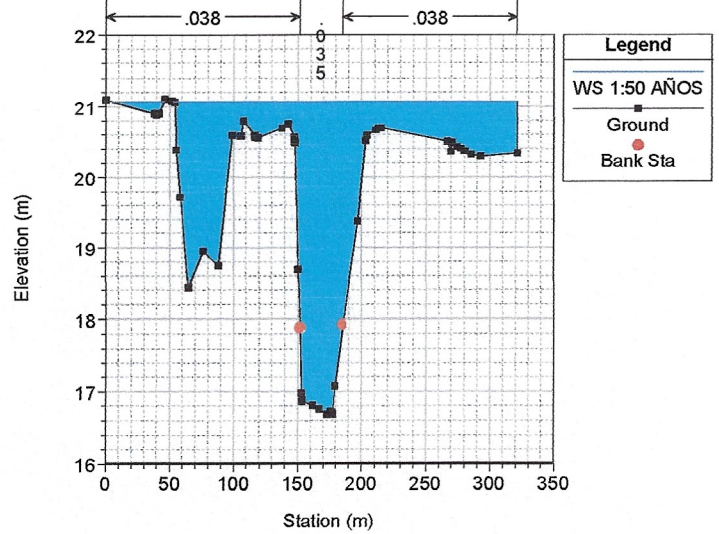
River = MALENGUE2018 Reach = malengue RS = 920



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

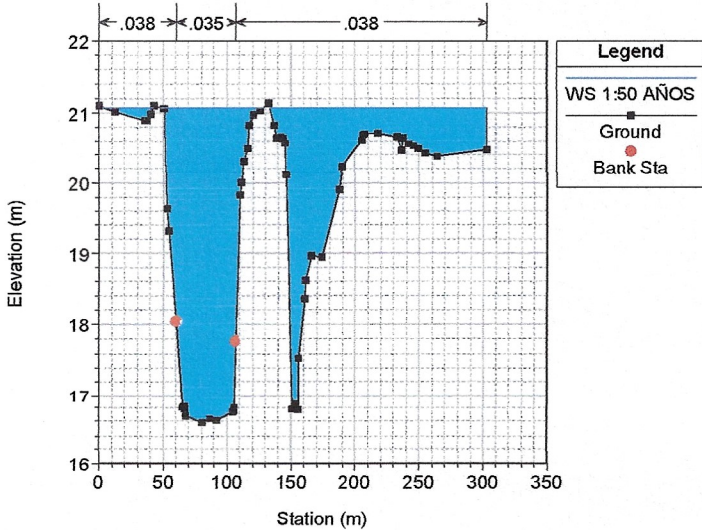
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GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

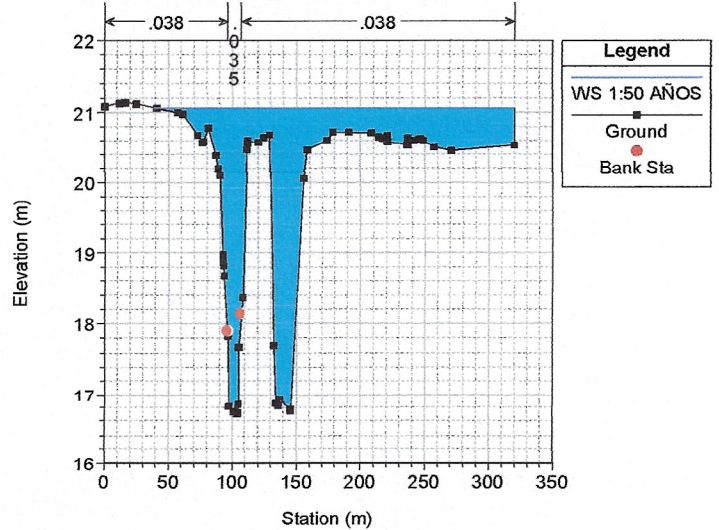
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GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

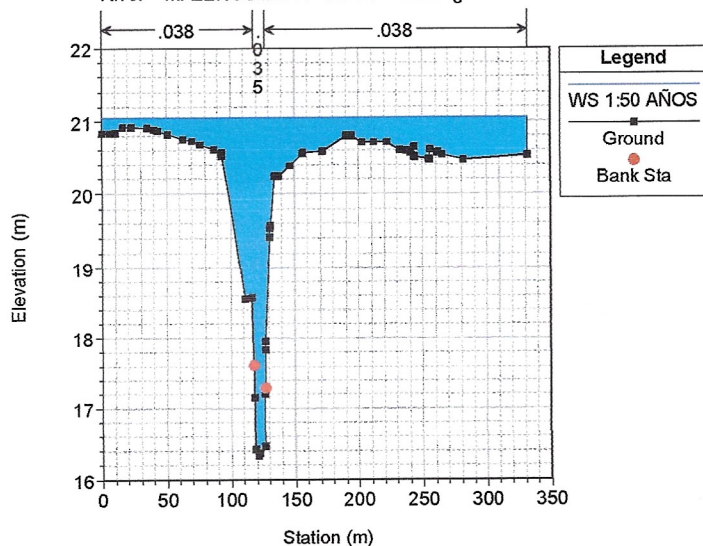
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GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

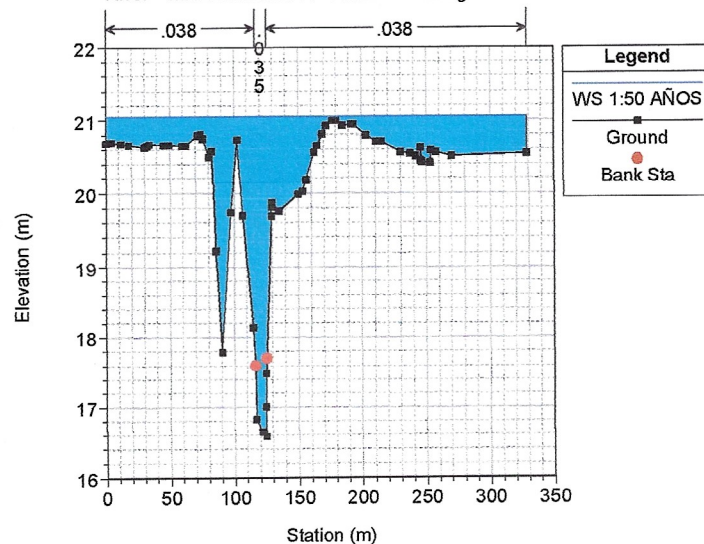
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GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

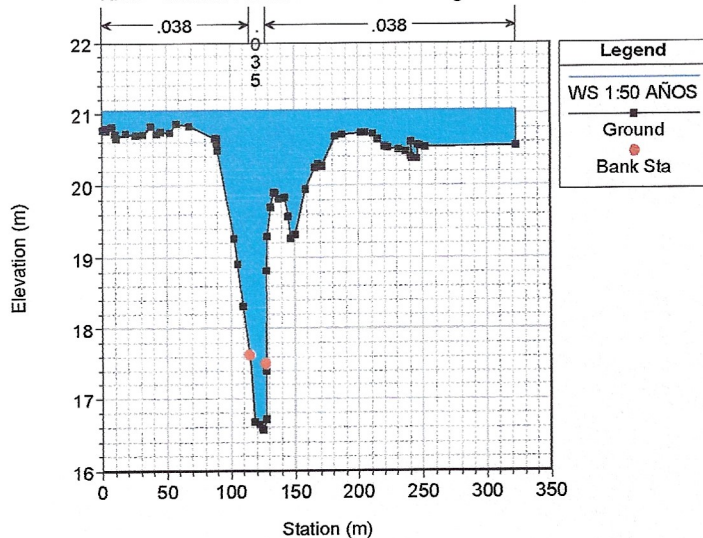
River = MALENGUE2018 Reach = malengue RS = 660



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

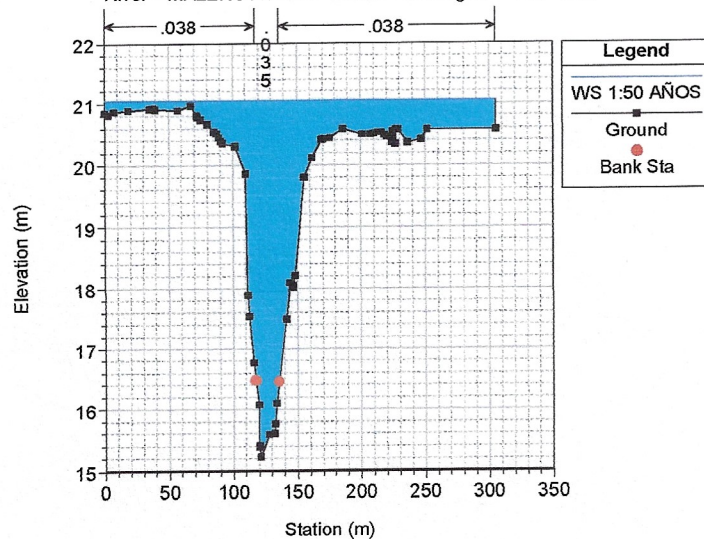
River = MALENGUE2018 Reach = malengue RS = 640



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

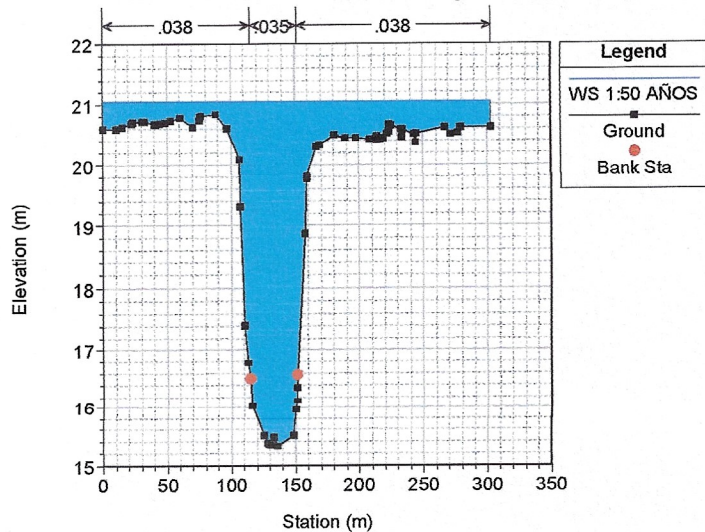
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GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

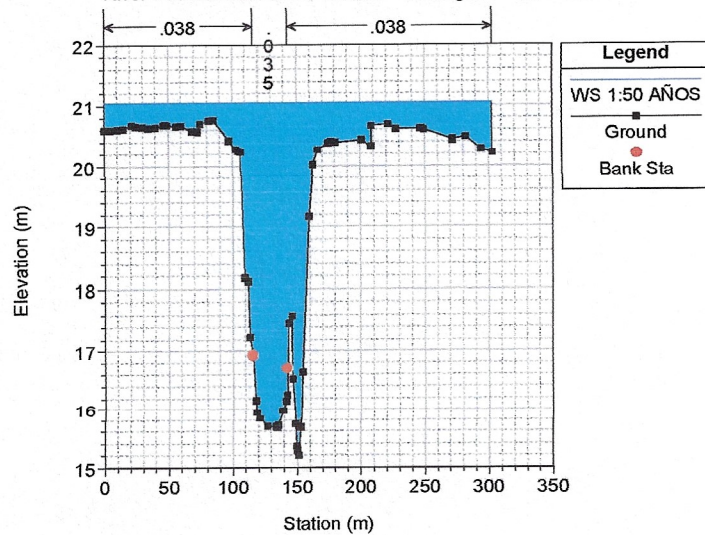
River = MALENGUE2018 Reach = malengue RS = 600



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

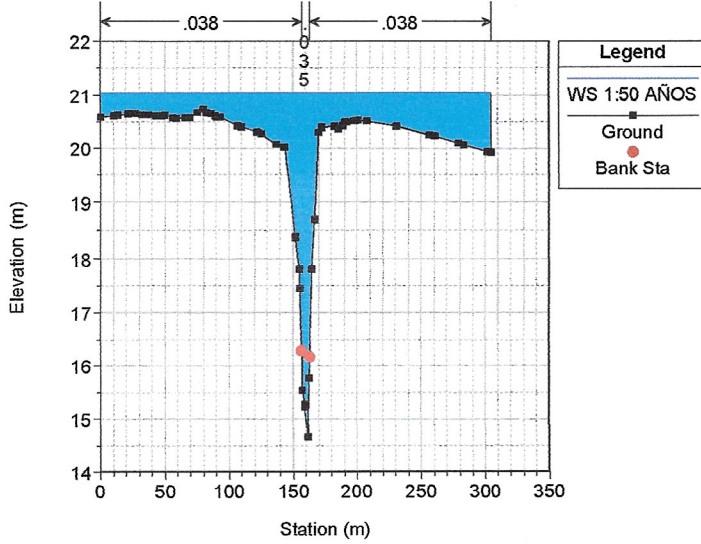
River = MALENGUE2018 Reach = malengue RS = 580



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

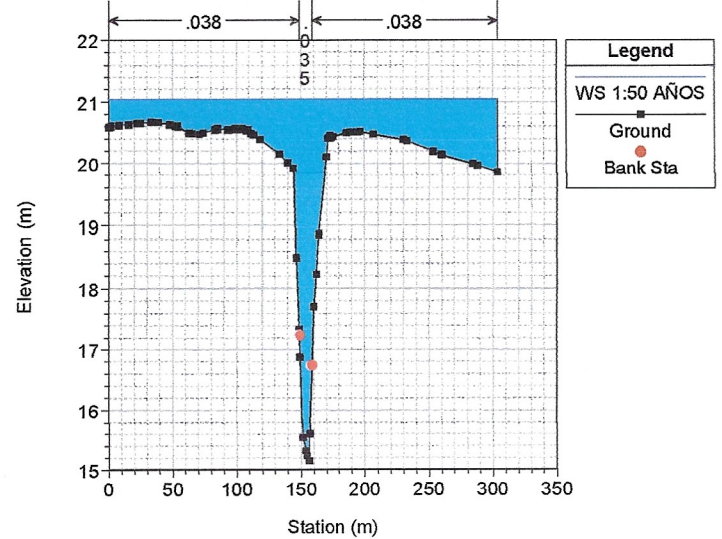
River = MALENGUE2018 Reach = malengue RS = 560



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

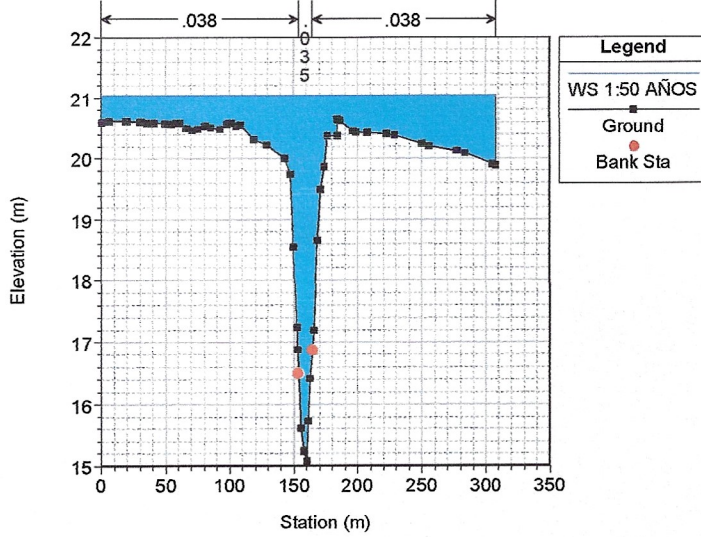
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GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

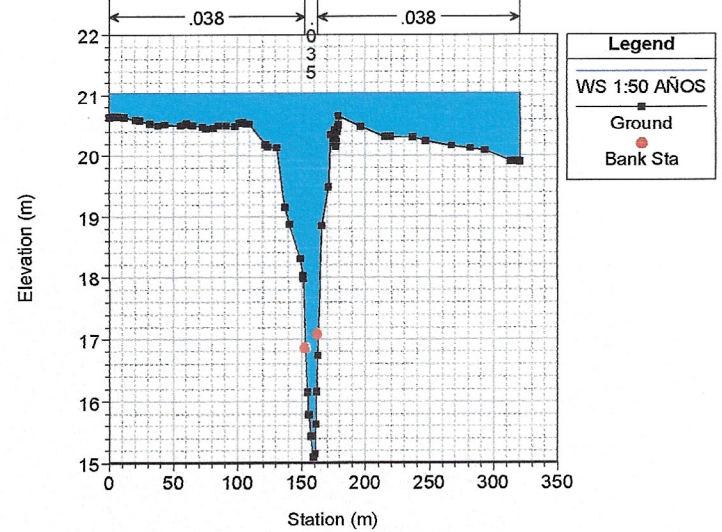
River = MALENGUE2018 Reach = malengue RS = 520



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

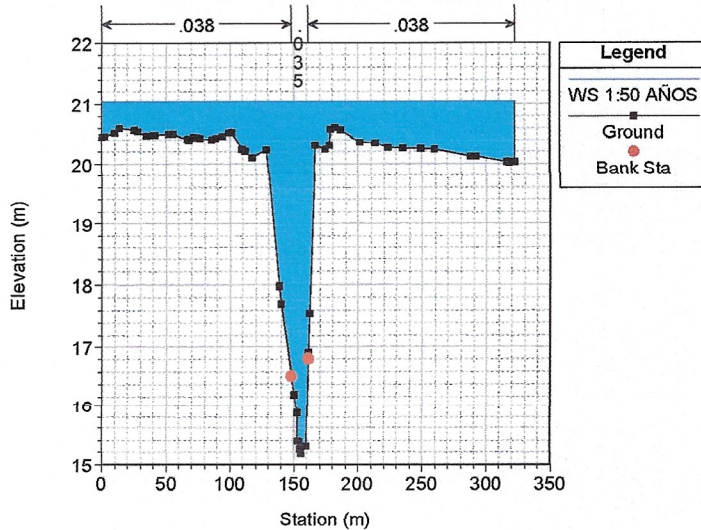
River = MALENGUE2018 Reach = malengue RS = 500



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

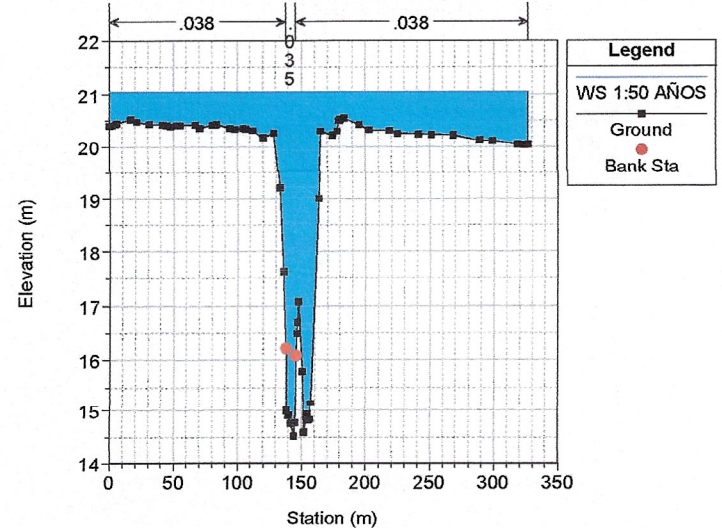
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GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

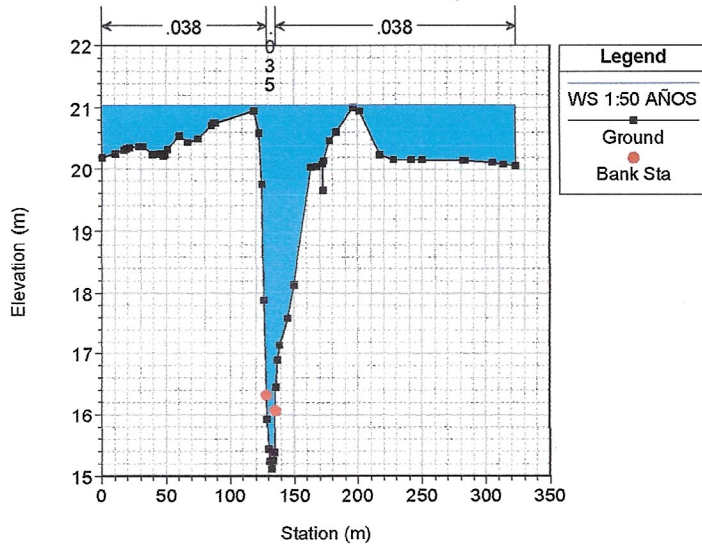
River = MALENGUE2018 Reach = malengue RS = 460



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

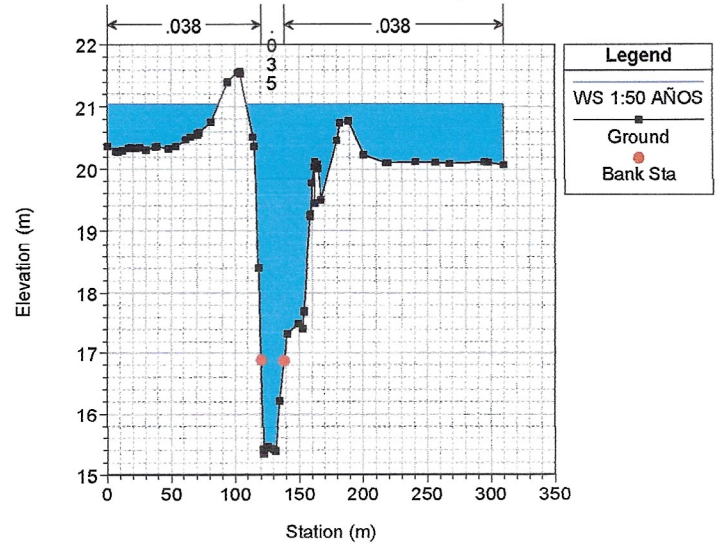
River = MALENGUE2018 Reach = malengue RS = 420



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

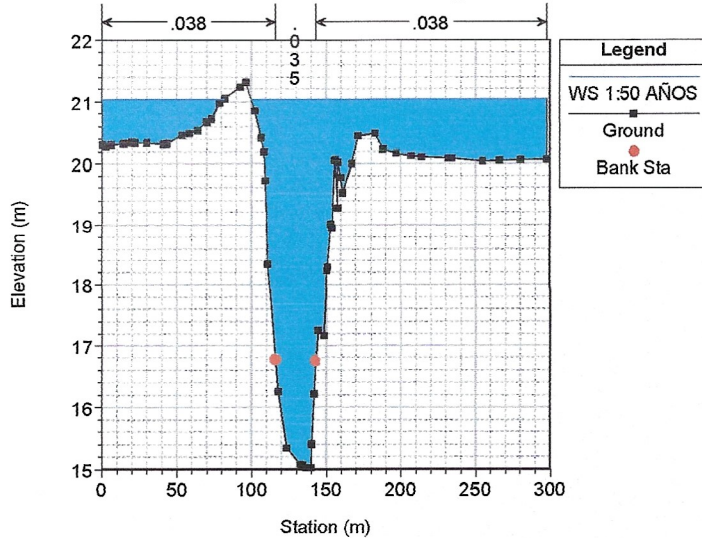
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GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

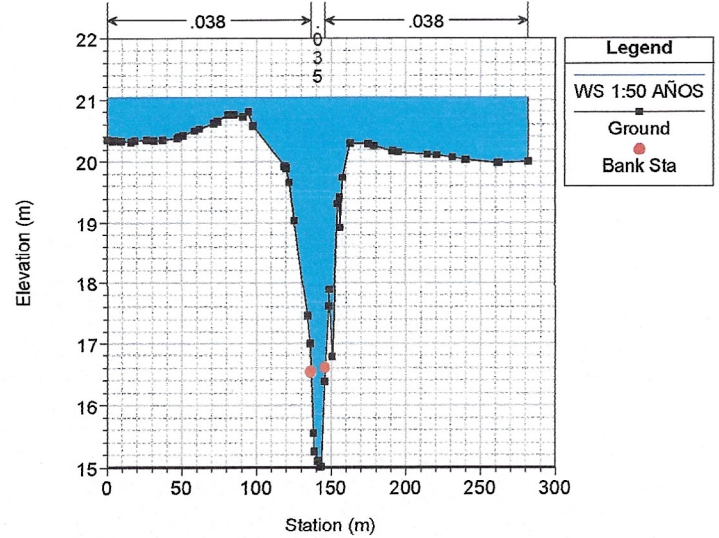
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GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

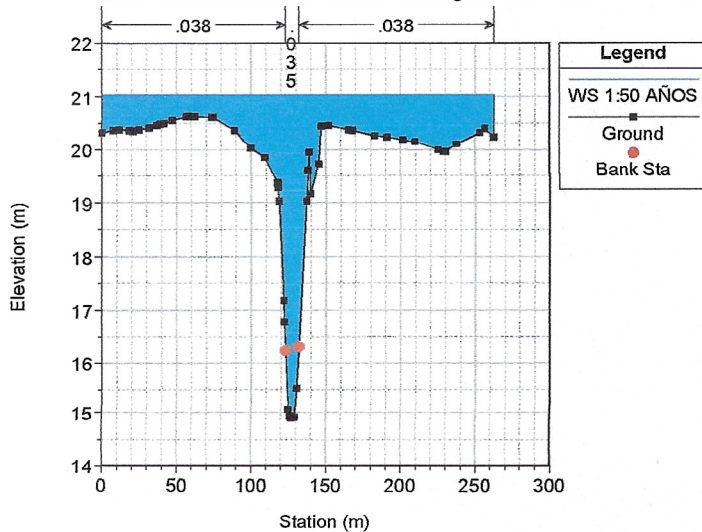
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GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

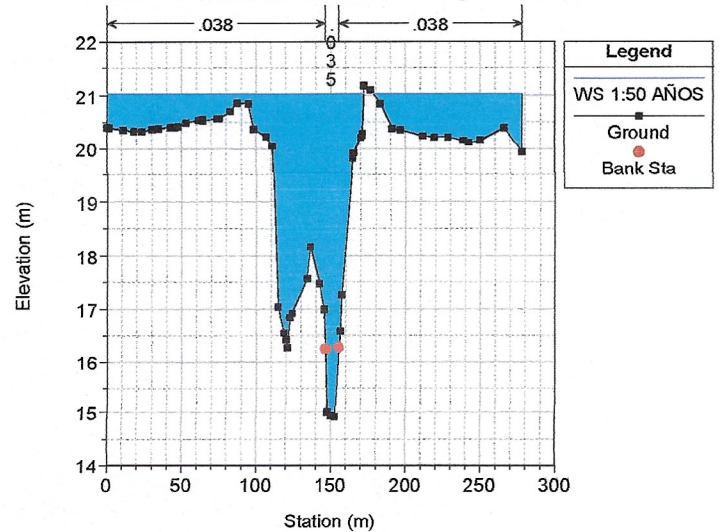
River = MALENGUE2018 Reach = malengue RS = 340

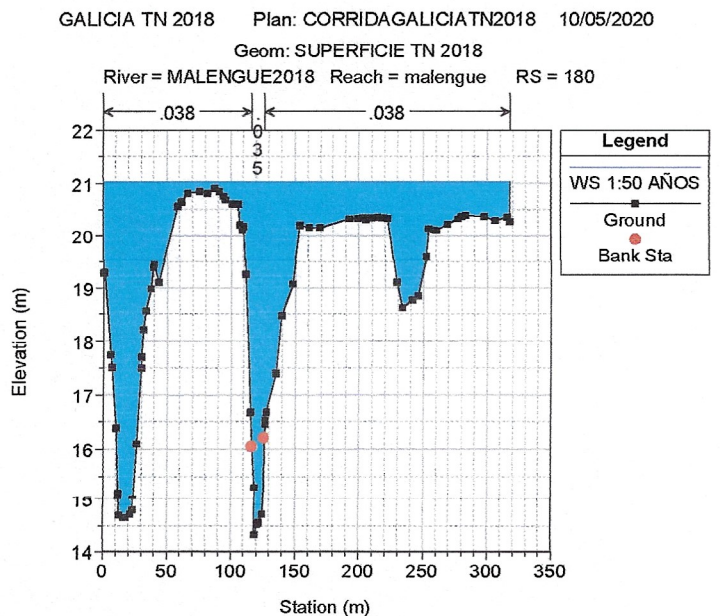
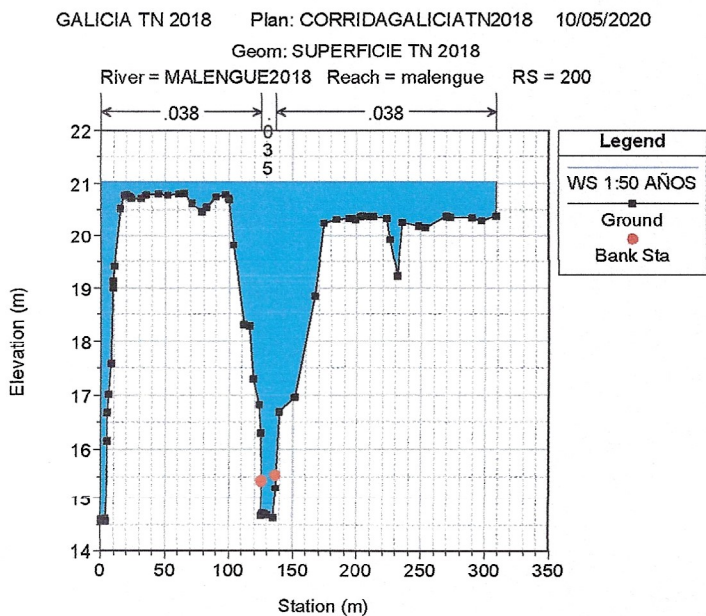
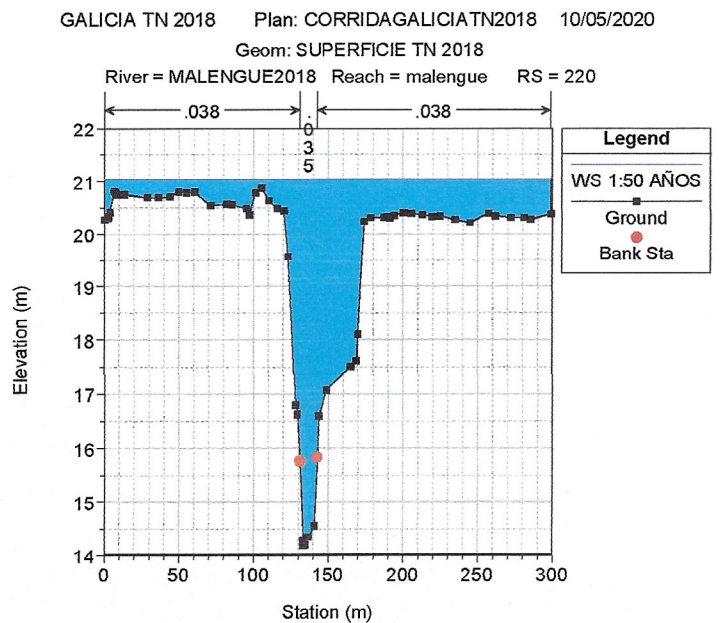
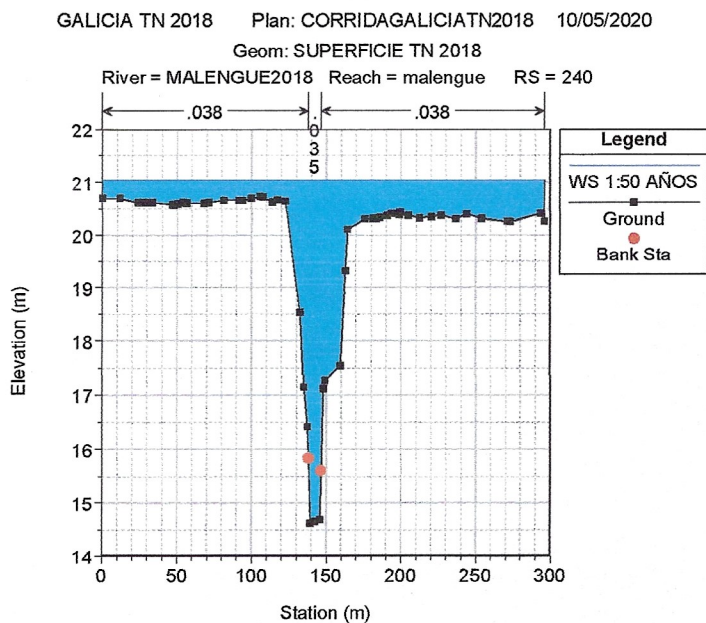
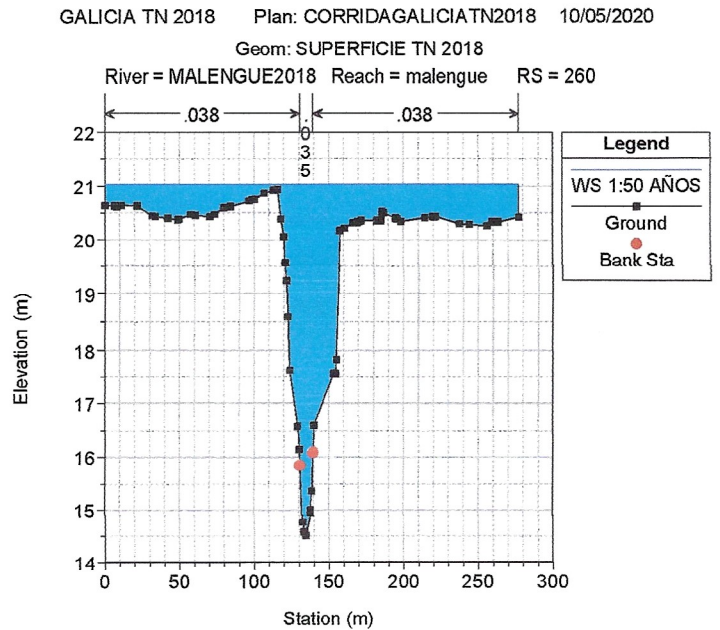
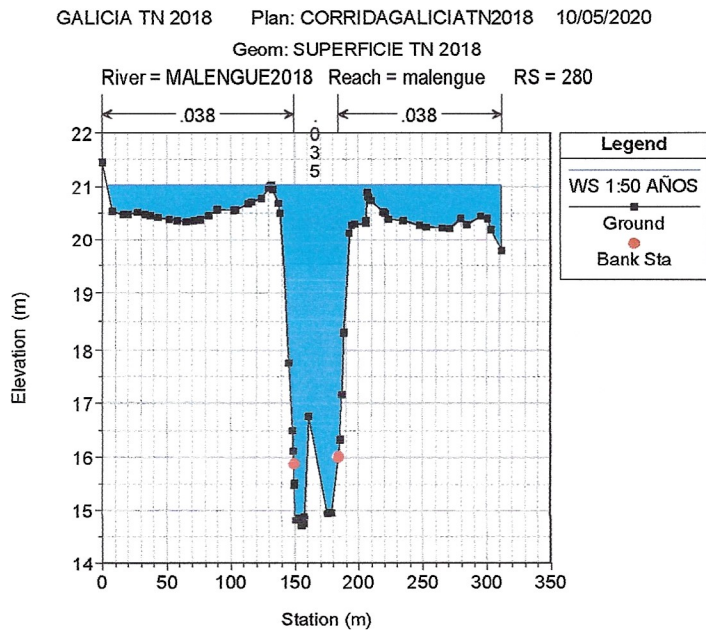


GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

River = MALENGUE2018 Reach = malengue RS = 320

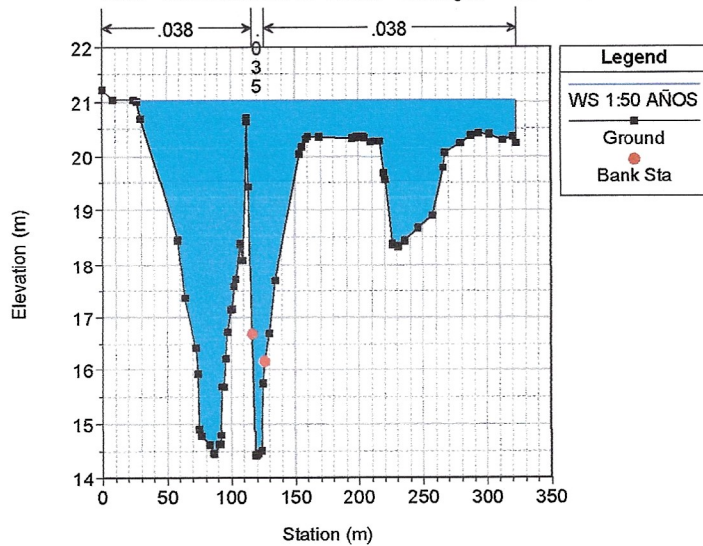




GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

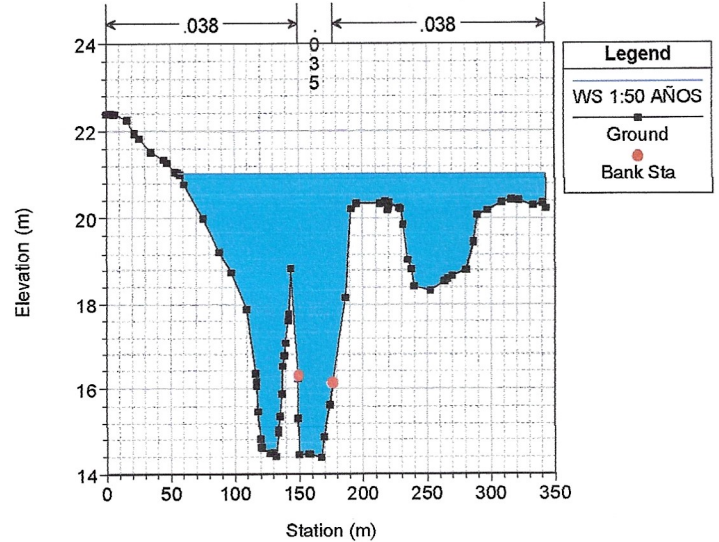
River = MALENGUE2018 Reach = malengue RS = 160



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

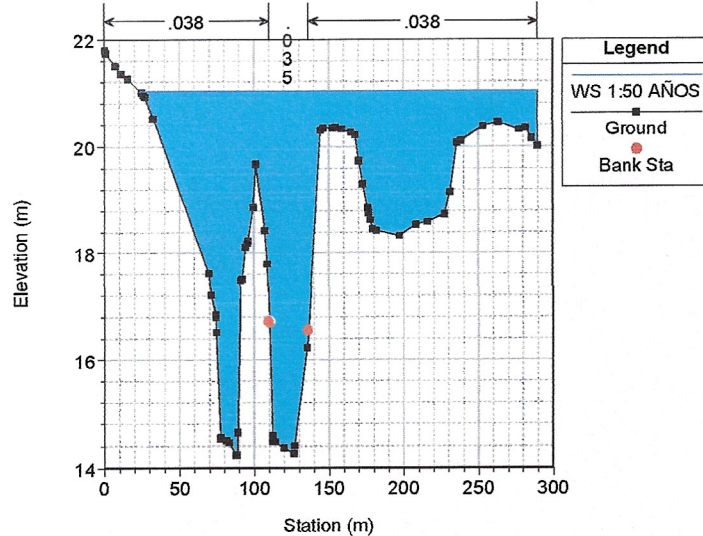
River = MALENGUE2018 Reach = malengue RS = 140



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

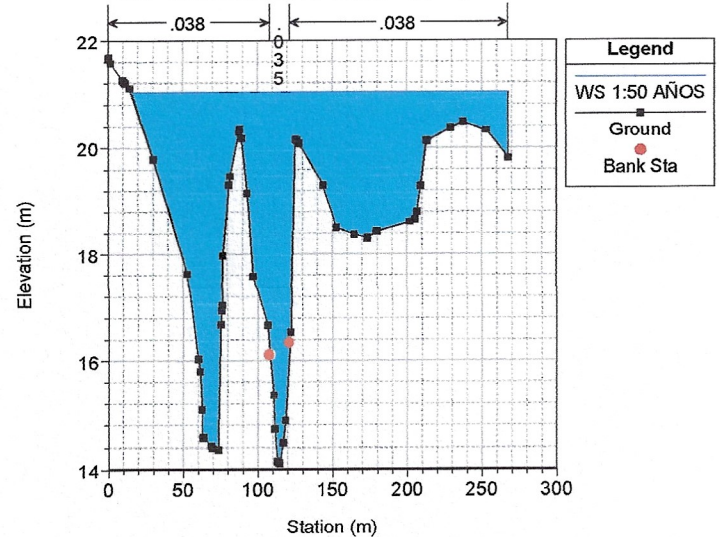
River = MALENGUE2018 Reach = malengue RS = 120



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

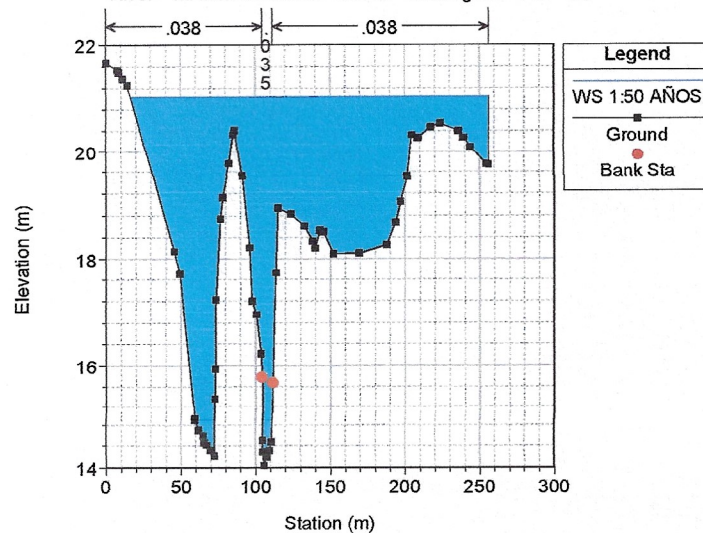
River = MALENGUE2018 Reach = malengue RS = 100



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

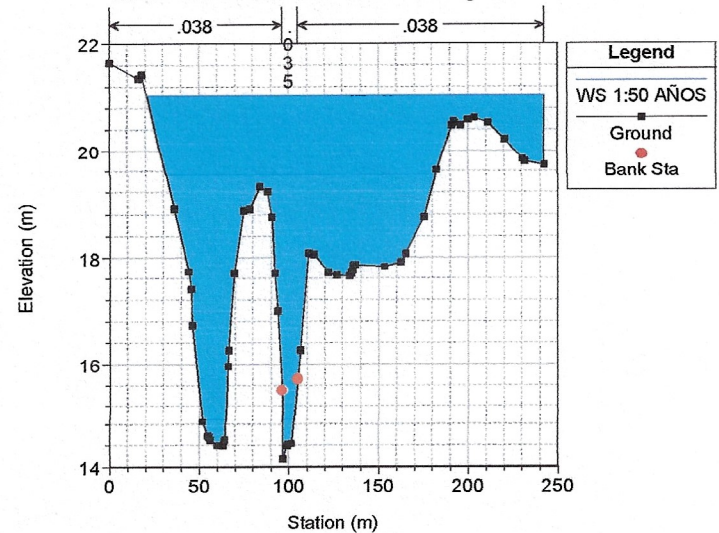
River = MALENGUE2018 Reach = malengue RS = 80



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

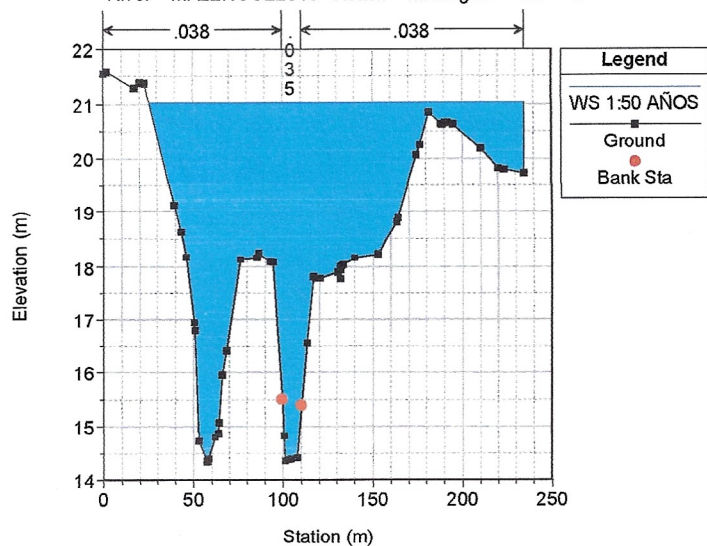
River = MALENGUE2018 Reach = malengue RS = 60



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

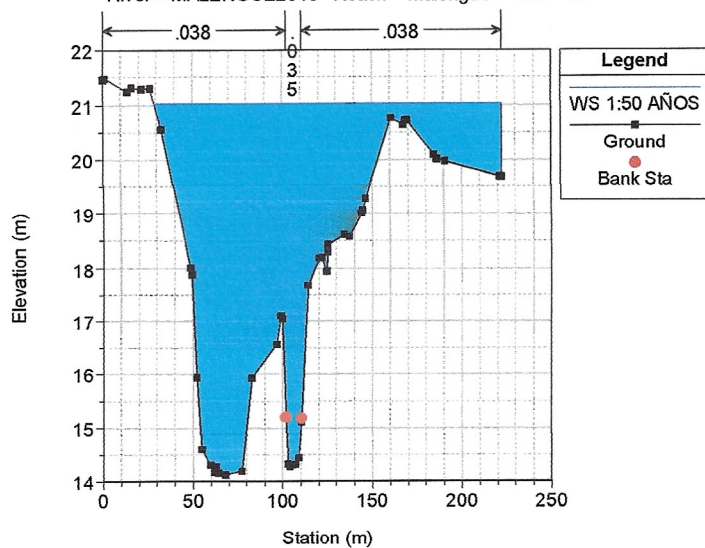
River = MALENGUE2018 Reach = malengue RS = 40



GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

Geom: SUPERFICIE TN 2018

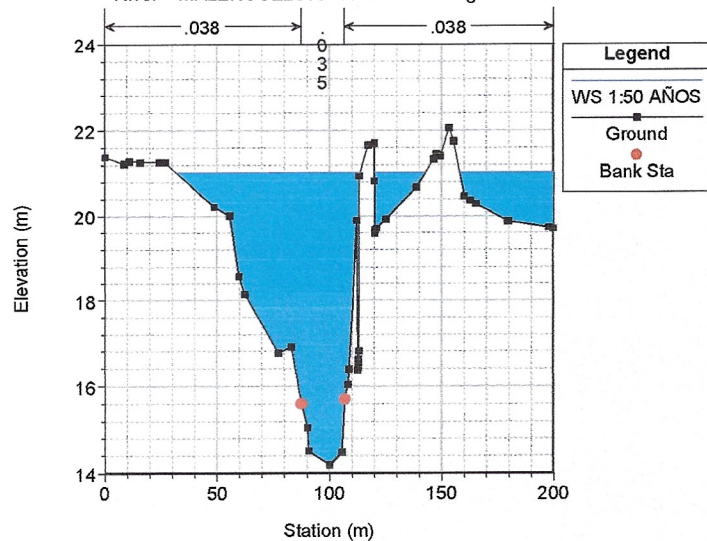
River = MALENGUE2018 Reach = malengue RS = 20



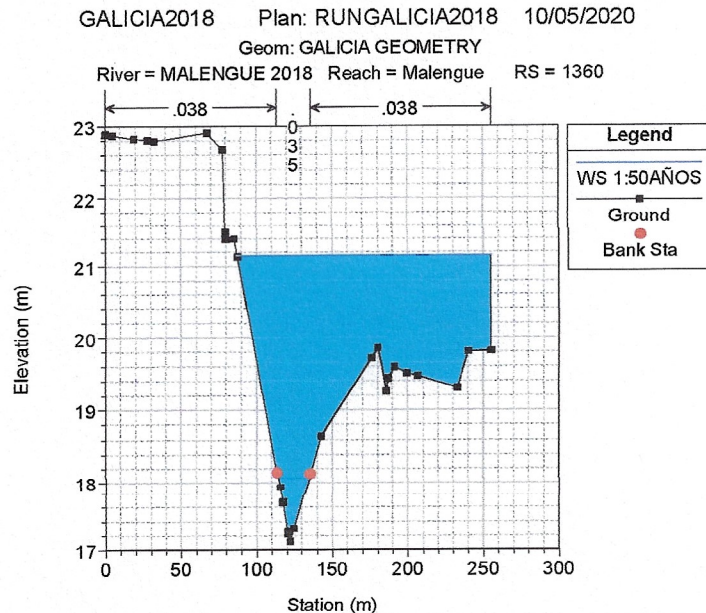
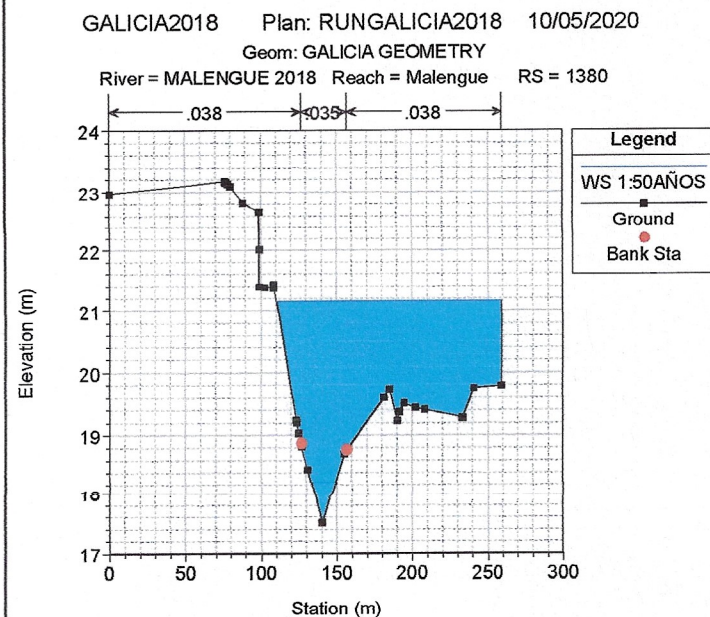
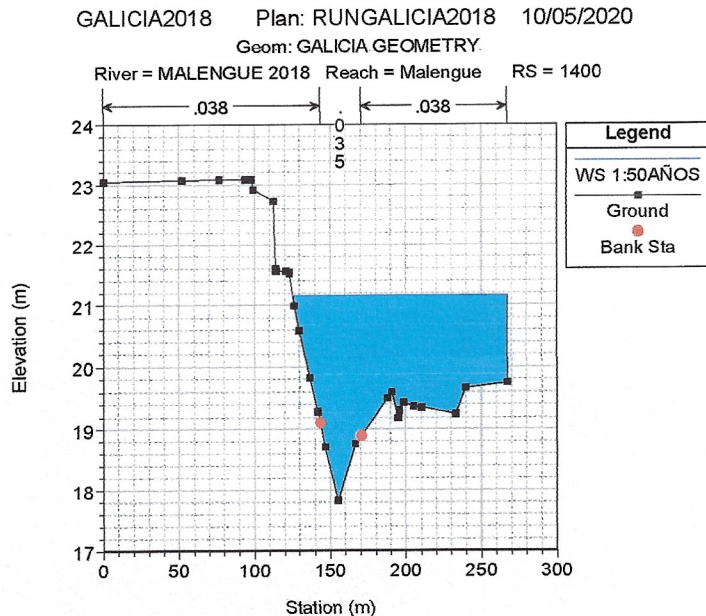
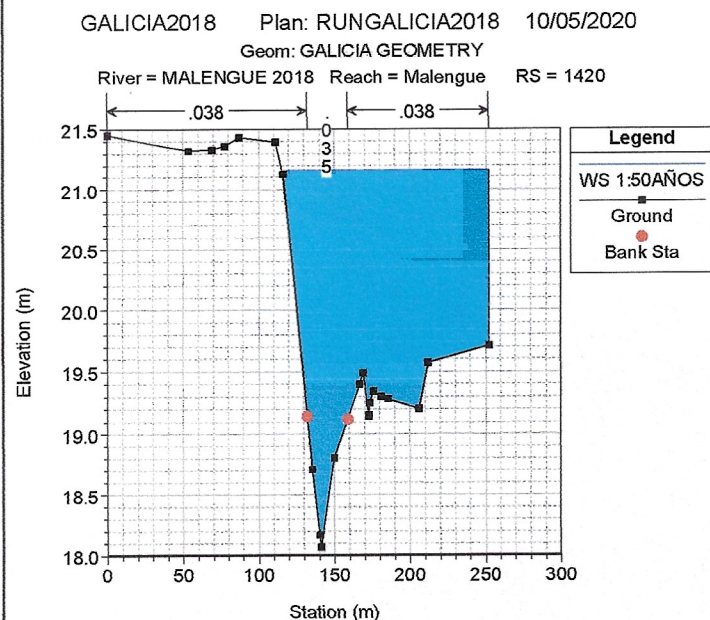
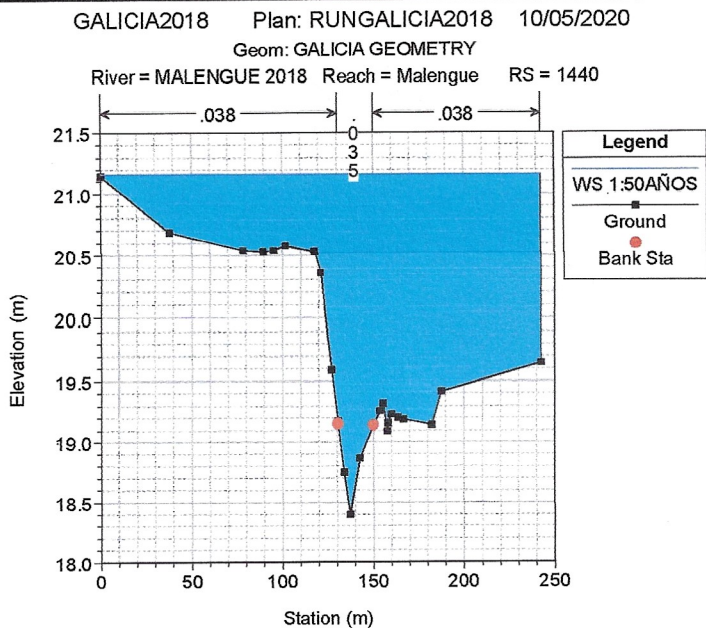
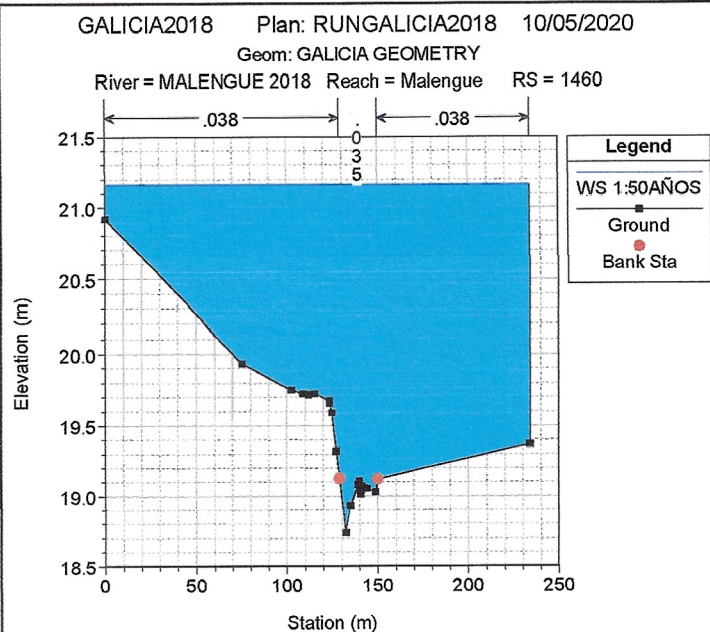
GALICIA TN 2018 Plan: CORRIDAGALICIATN2018 10/05/2020

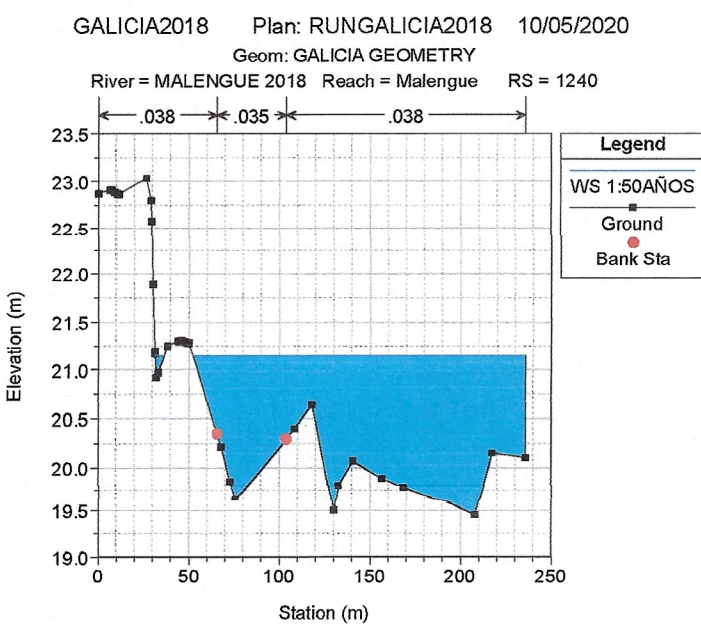
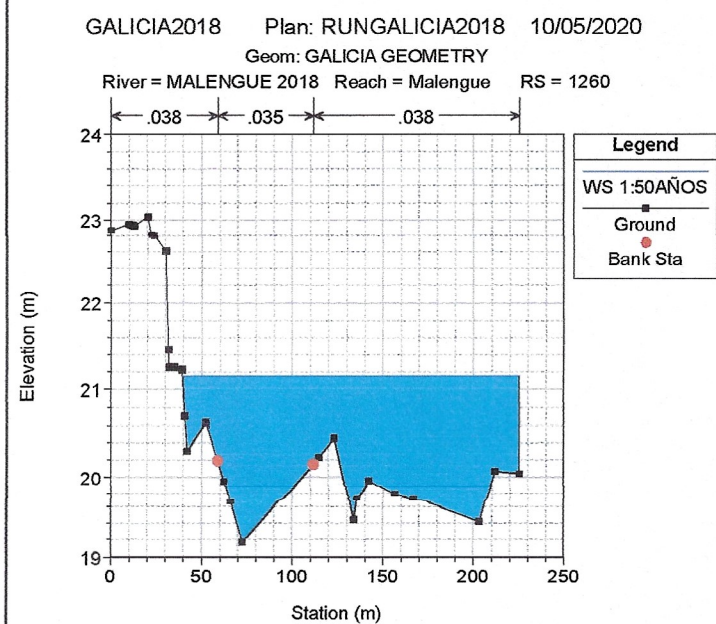
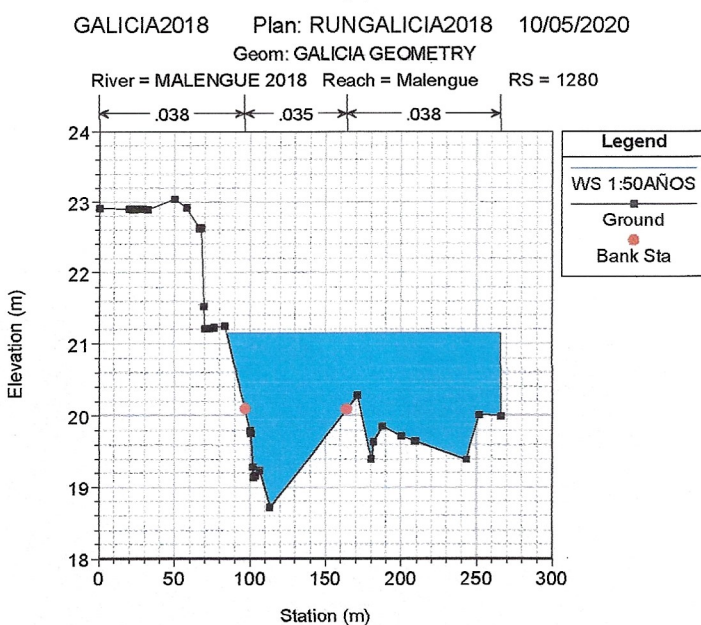
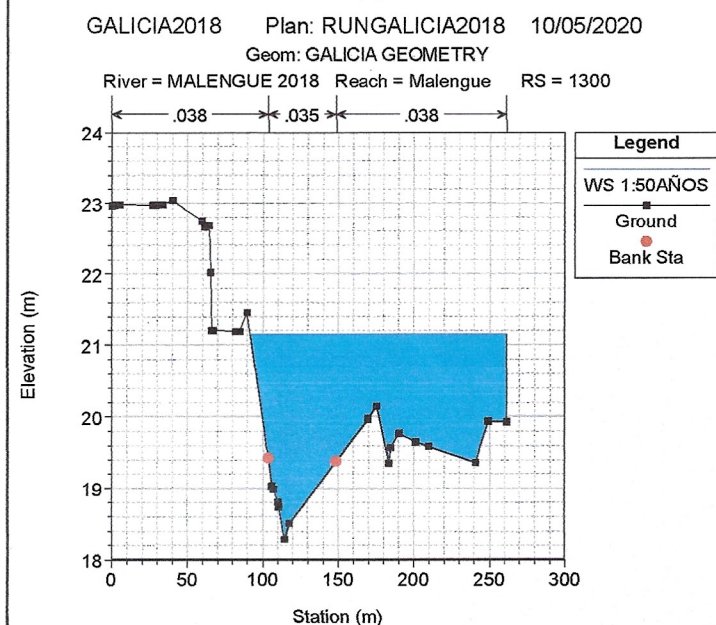
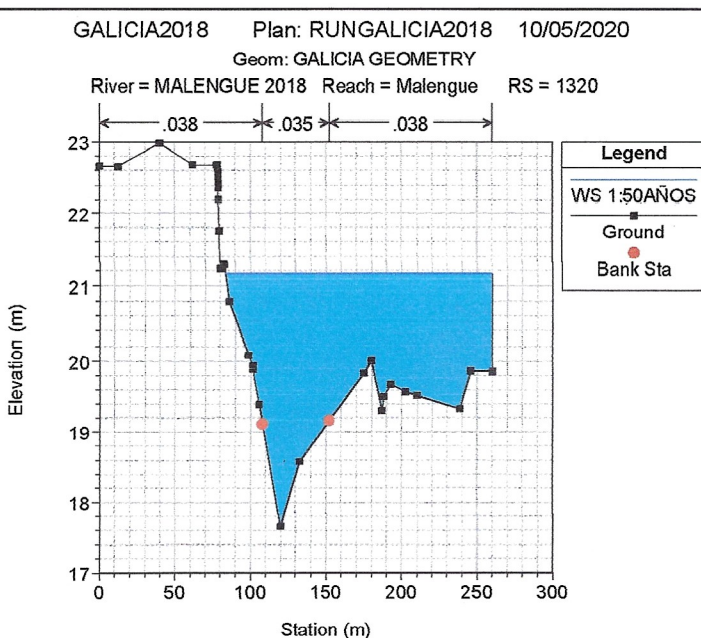
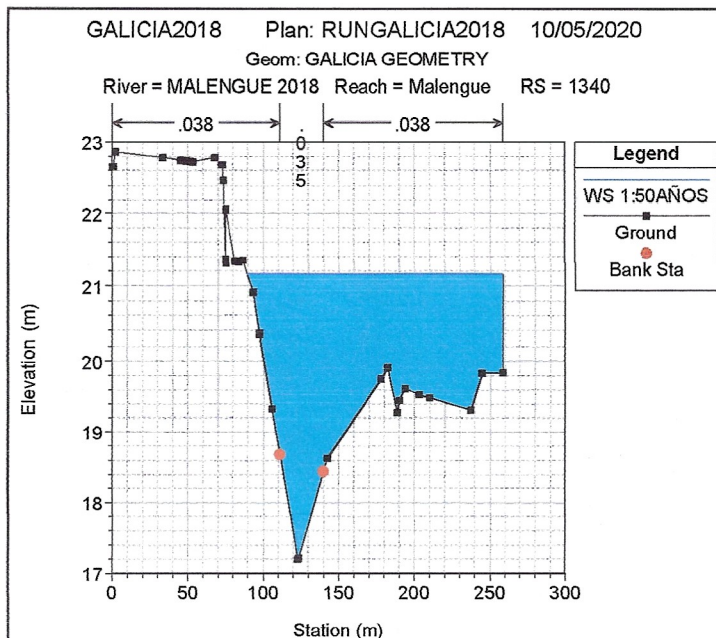
Geom: SUPERFICIE TN 2018

River = MALENGUE2018 Reach = malengue RS = 0



QUEBRADA MALENGUE CON AMBOS PROYECTOS

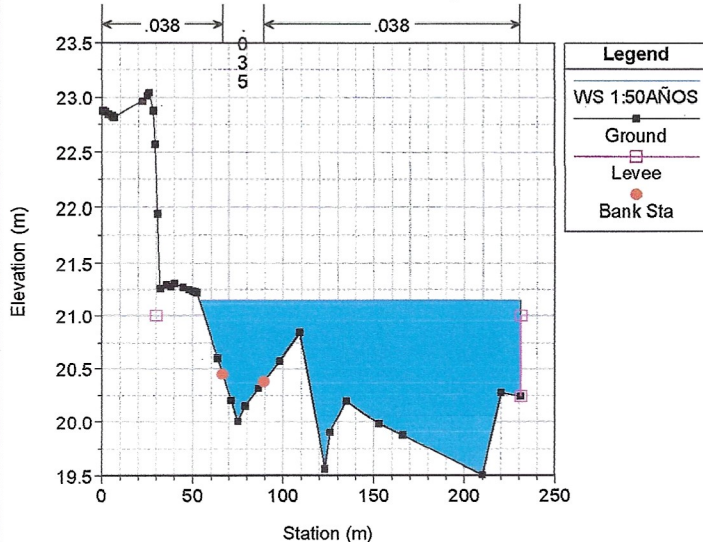




GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

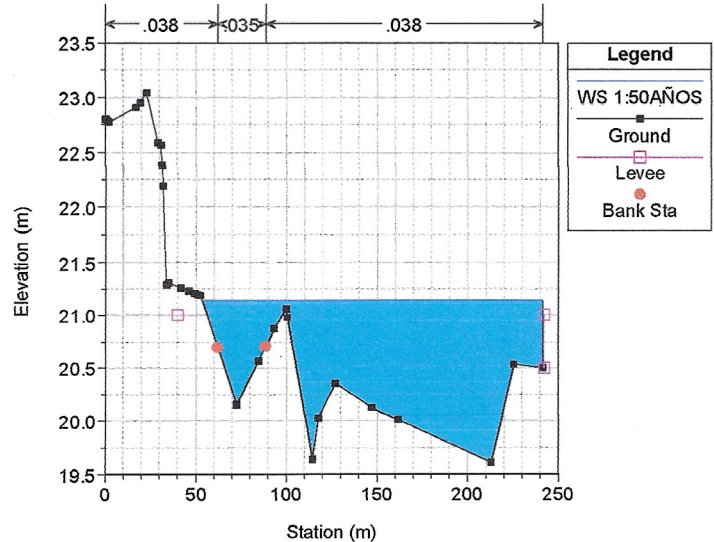
River = MALENGUE 2018 Reach = Malengue RS = 1220



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

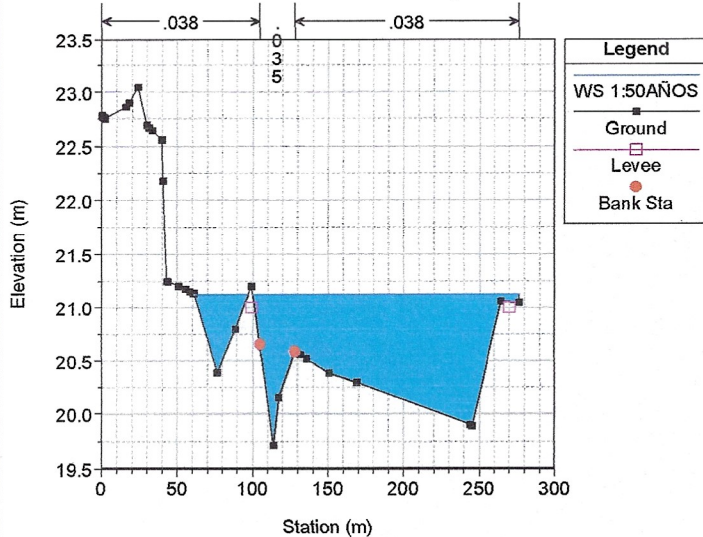
River = MALENGUE 2018 Reach = Malengue RS = 1200



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

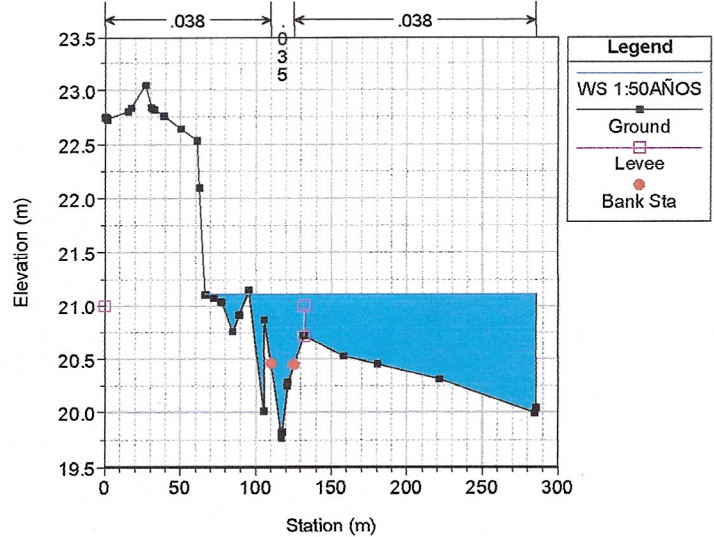
River = MALENGUE 2018 Reach = Malengue RS = 1140



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

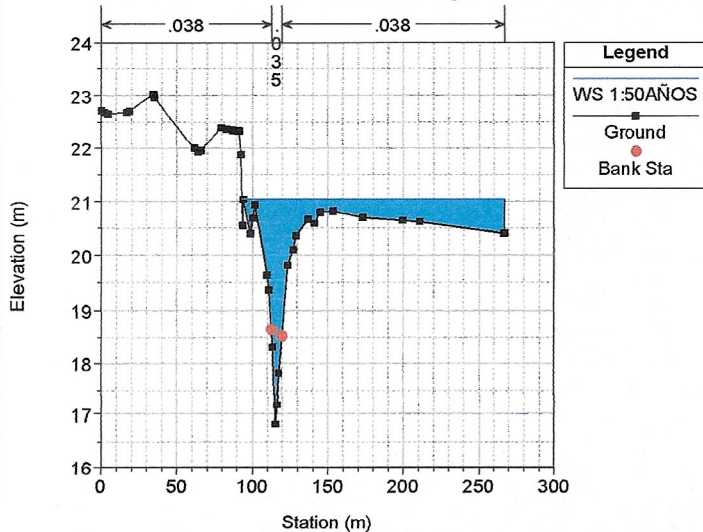
River = MALENGUE 2018 Reach = Malengue RS = 1120



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

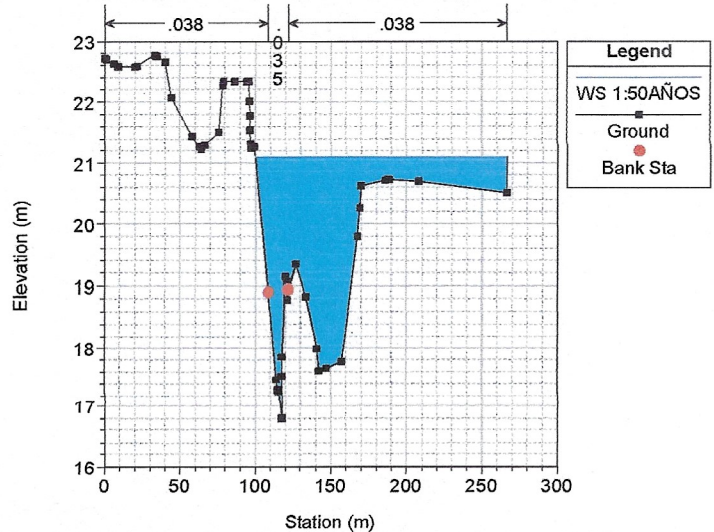
River = MALENGUE 2018 Reach = Malengue RS = 1100



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

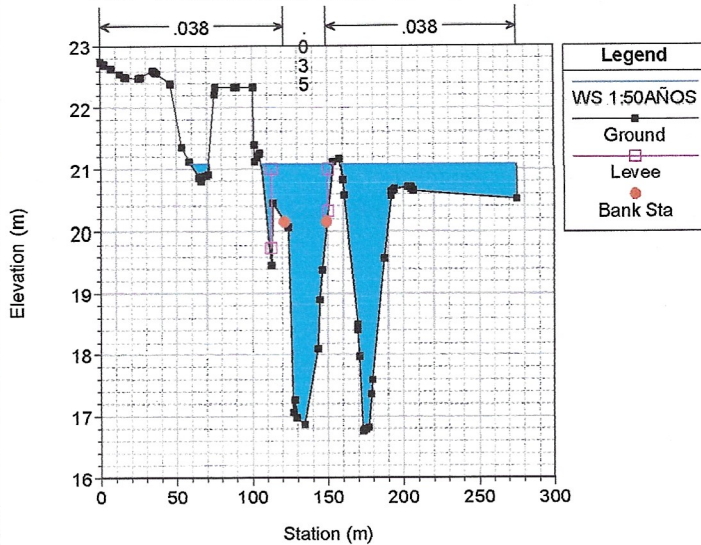
River = MALENGUE 2018 Reach = Malengue RS = 1080



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

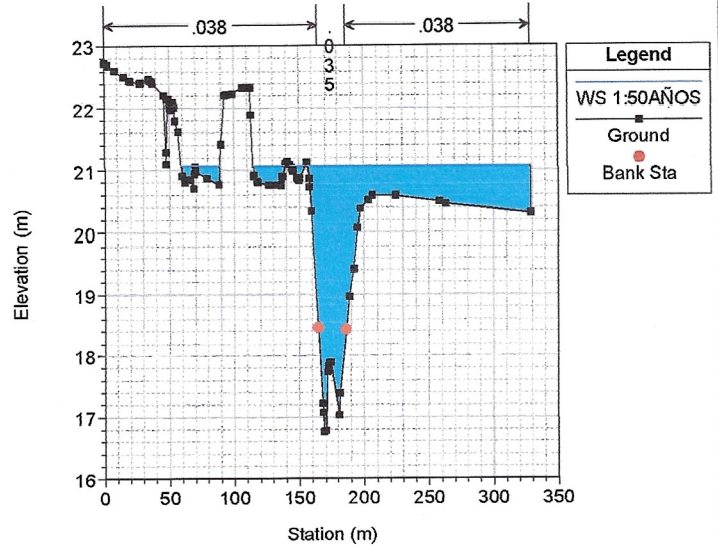
River = MALENGUE 2018 Reach = Malengue RS = 1000



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

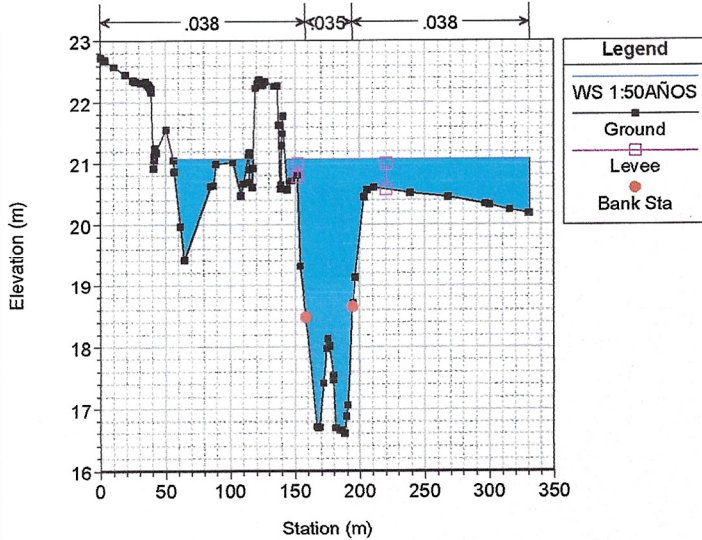
River = MALENGUE 2018 Reach = Malengue RS = 980



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

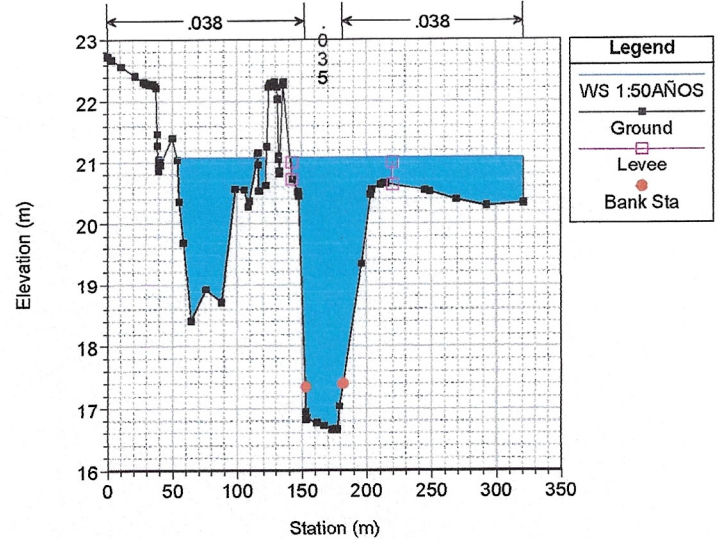
River = MALENGUE 2018 Reach = Malengue RS = 920



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

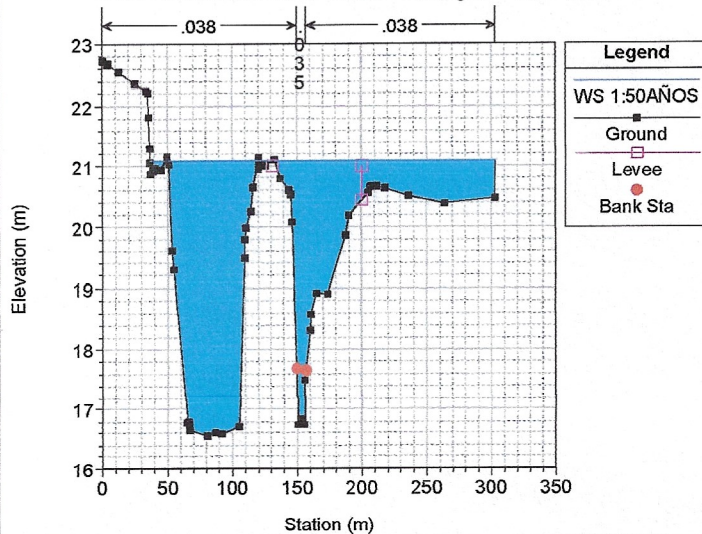
River = MALENGUE 2018 Reach = Malengue RS = 900



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

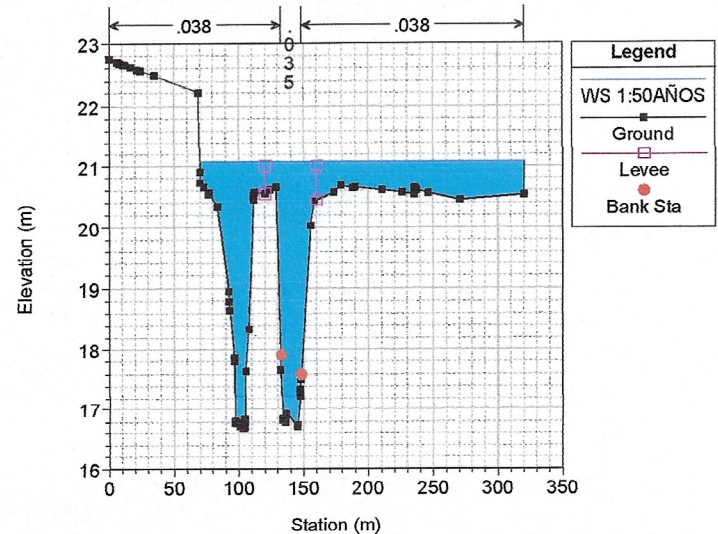
River = MALENGUE 2018 Reach = Malengue RS = 880

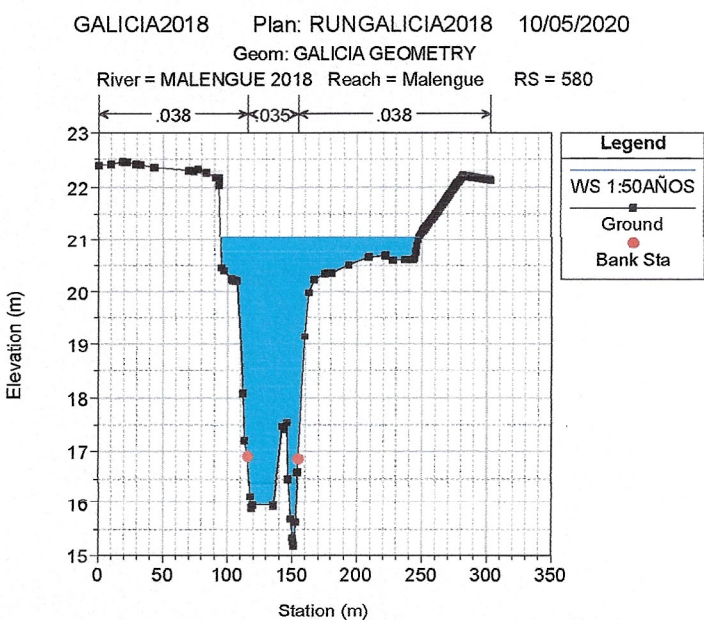
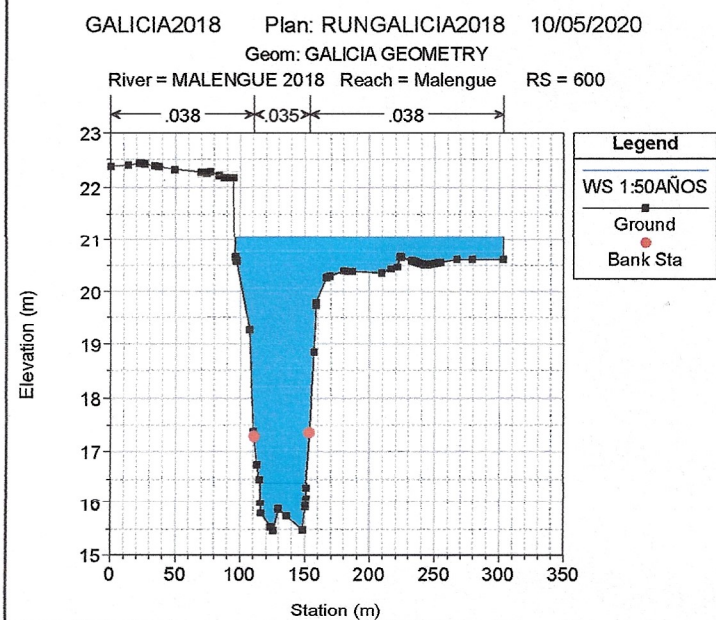
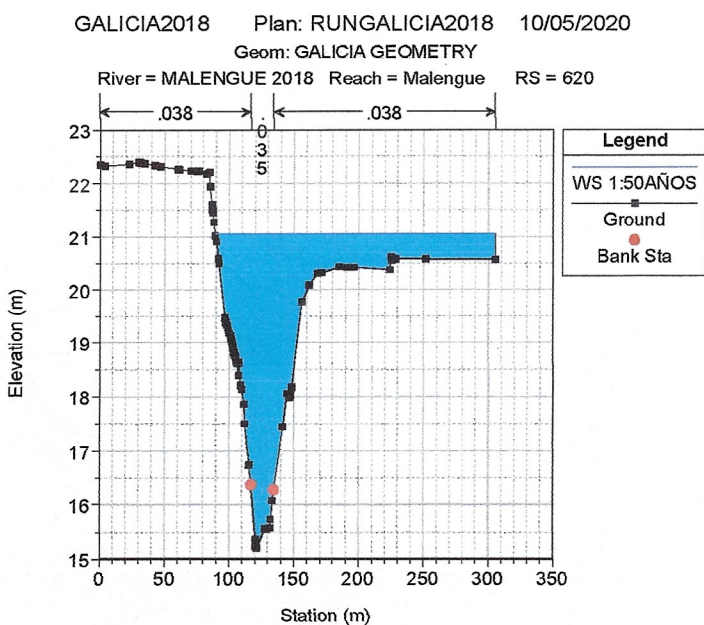
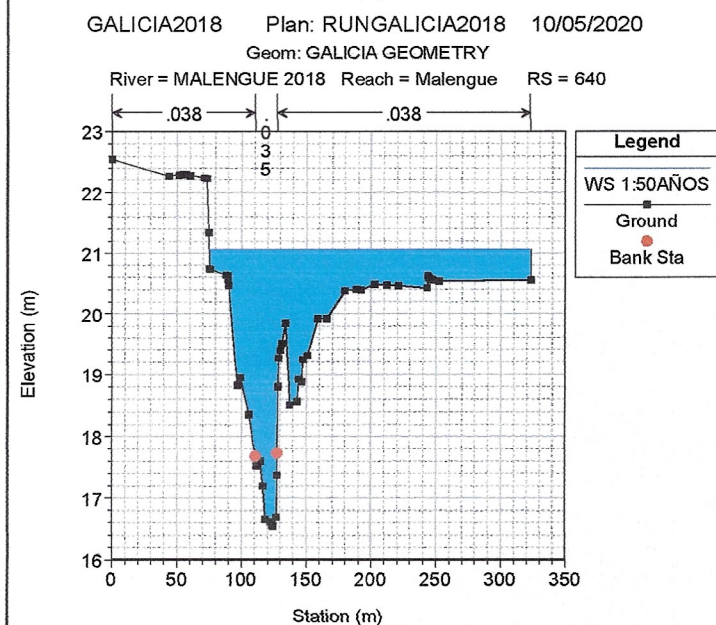
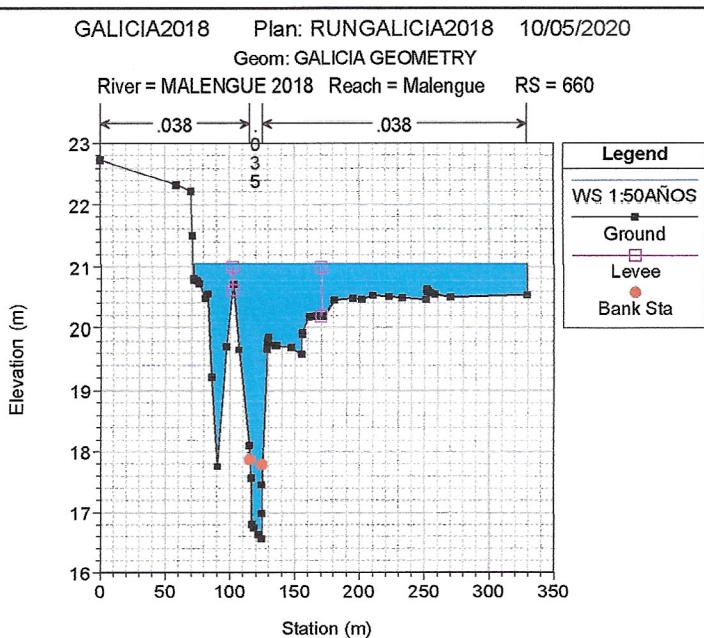
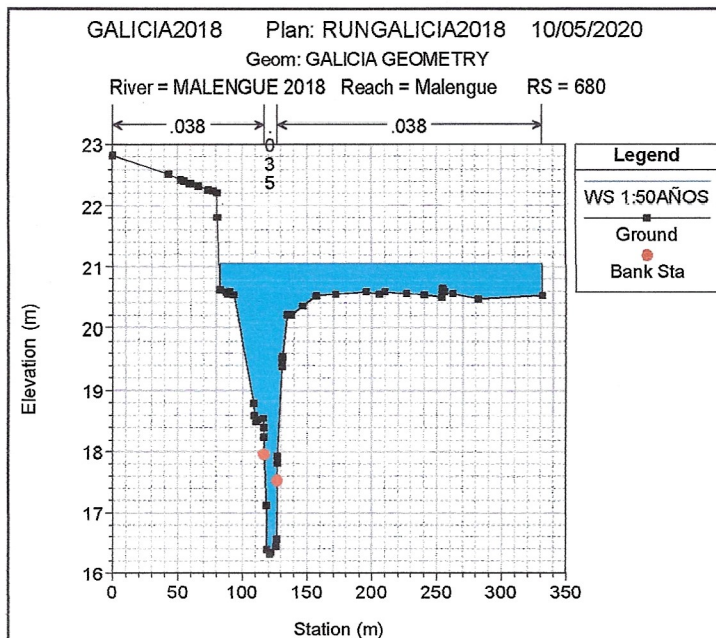


GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

River = MALENGUE 2018 Reach = Malengue RS = 700

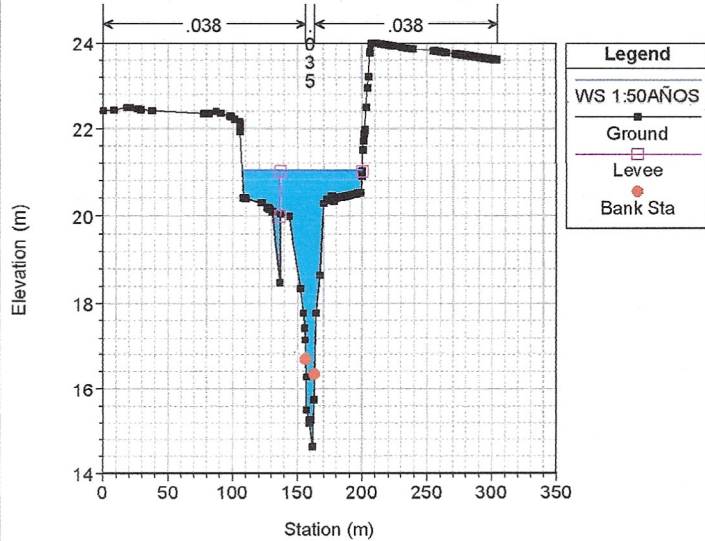




GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

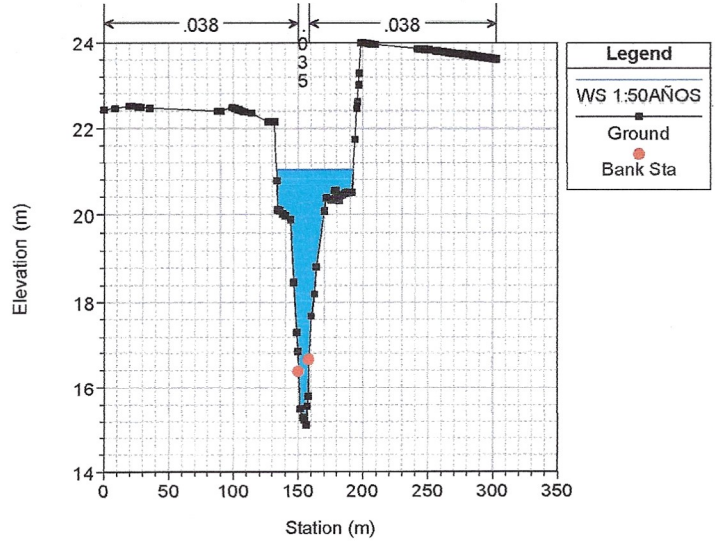
River = MALENGUE 2018 Reach = Malengue RS = 560



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

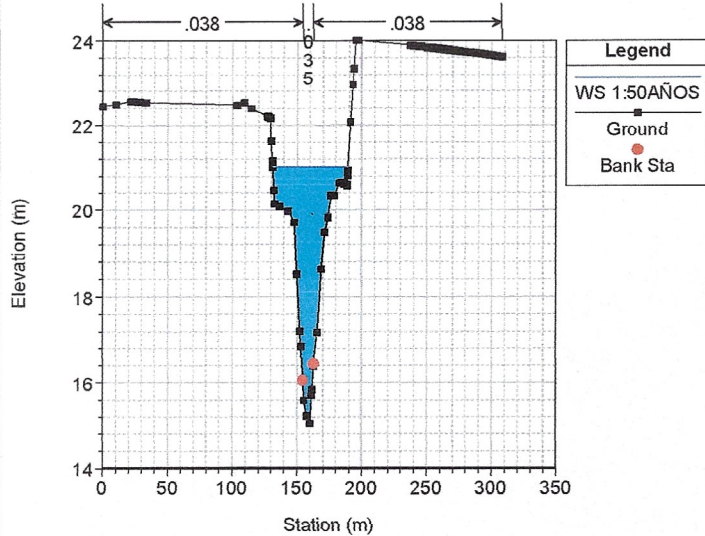
River = MALENGUE 2018 Reach = Malengue RS = 540



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

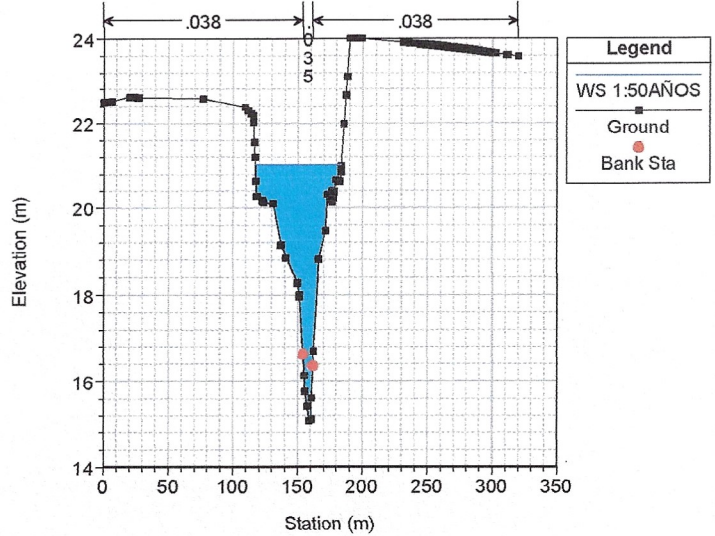
River = MALENGUE 2018 Reach = Malengue RS = 520



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

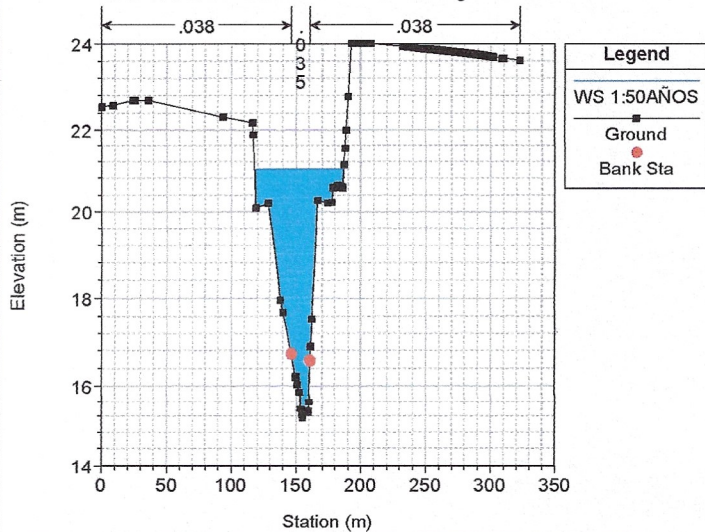
River = MALENGUE 2018 Reach = Malengue RS = 500



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

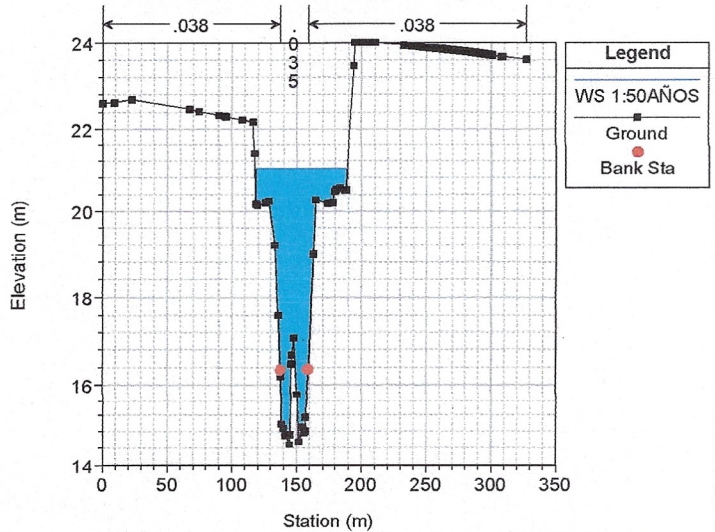
River = MALENGUE 2018 Reach = Malengue RS = 480



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

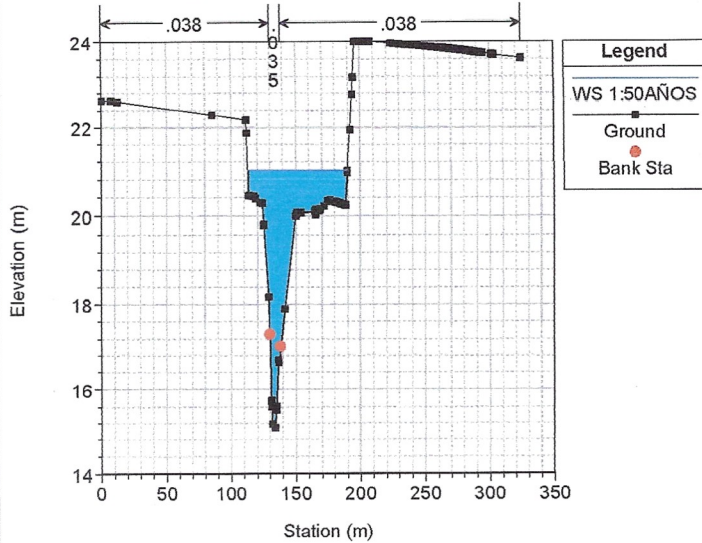
River = MALENGUE 2018 Reach = Malengue RS = 460



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

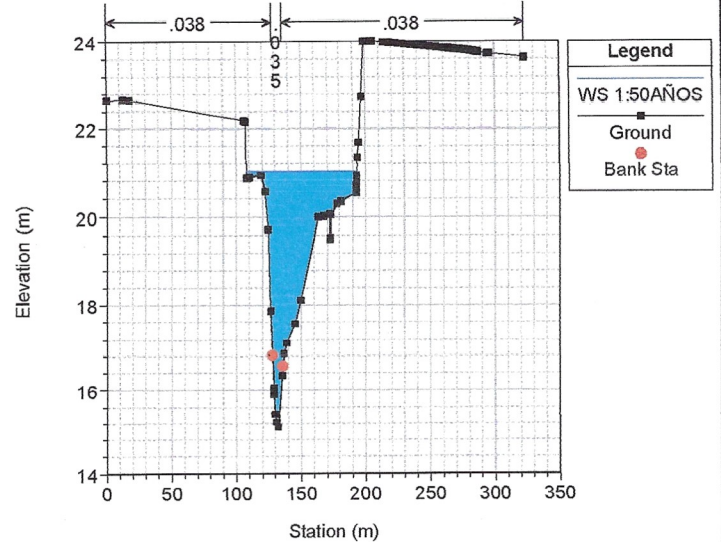
River = MALENGUE 2018 Reach = Malengue RS = 440



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

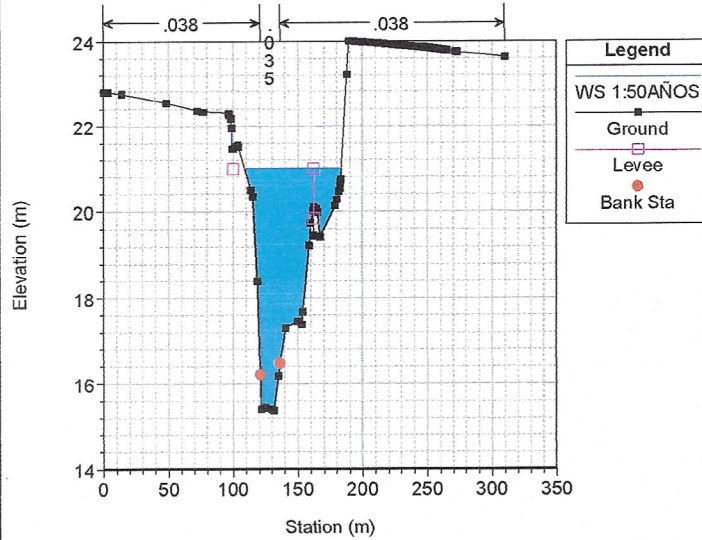
River = MALENGUE 2018 Reach = Malengue RS = 420



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

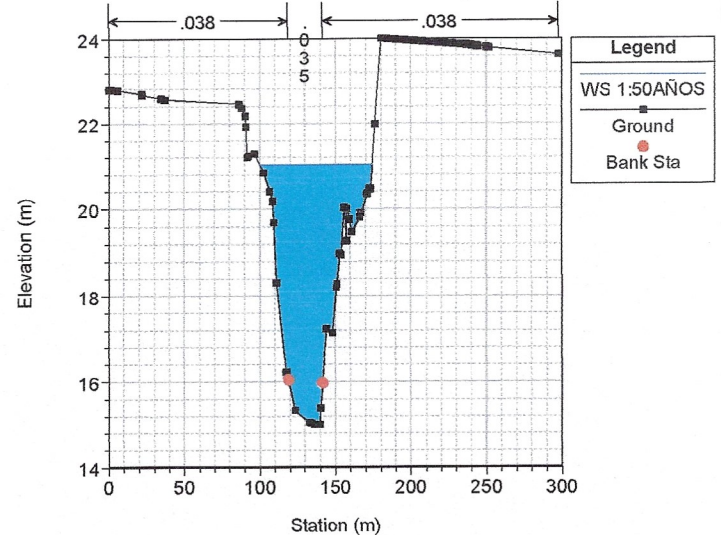
River = MALENGUE 2018 Reach = Malengue RS = 400



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

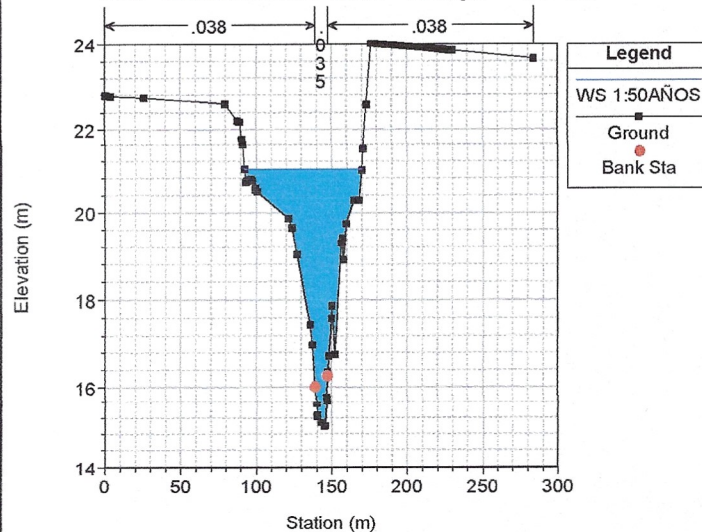
River = MALENGUE 2018 Reach = Malengue RS = 380



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

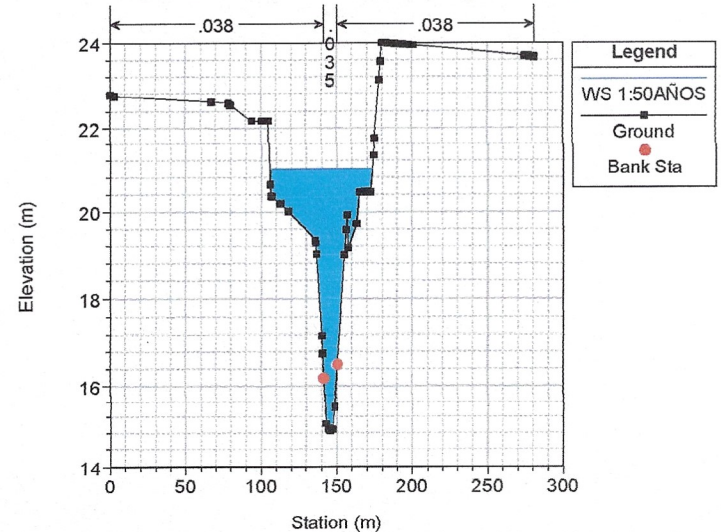
River = MALENGUE 2018 Reach = Malengue RS = 360



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

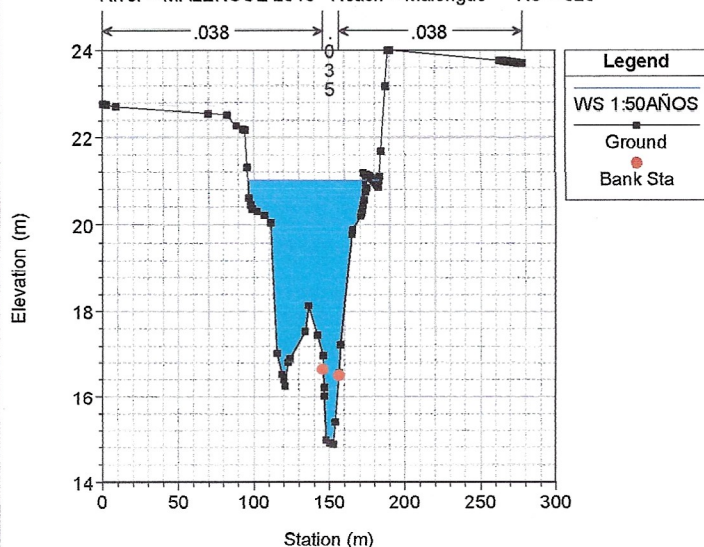
River = MALENGUE 2018 Reach = Malengue RS = 340



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

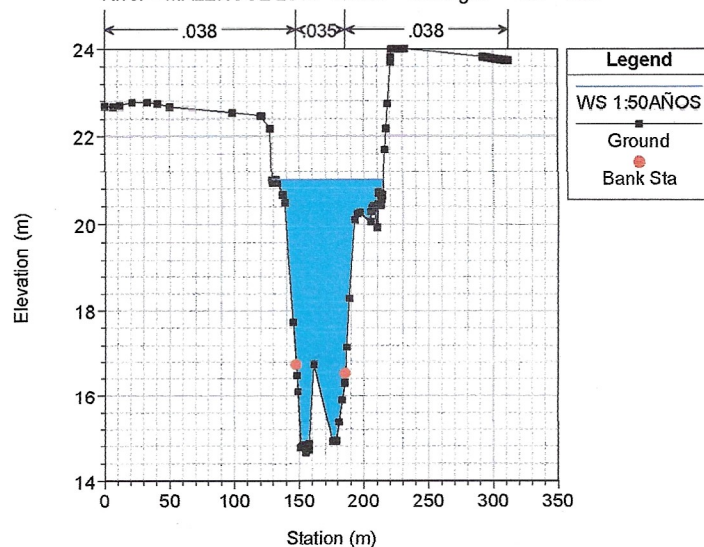
River = MALENGUE 2018 Reach = Malengue RS = 320



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

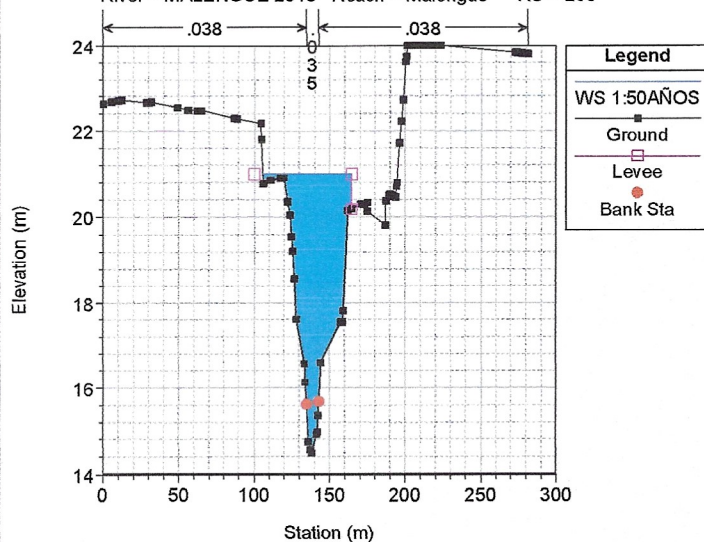
River = MALENGUE 2018 Reach = Malengue RS = 280



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

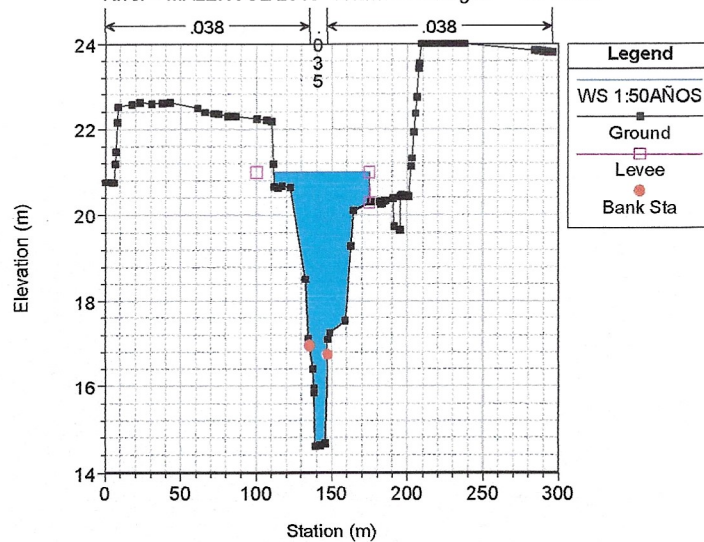
River = MALENGUE 2018 Reach = Malengue RS = 260



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

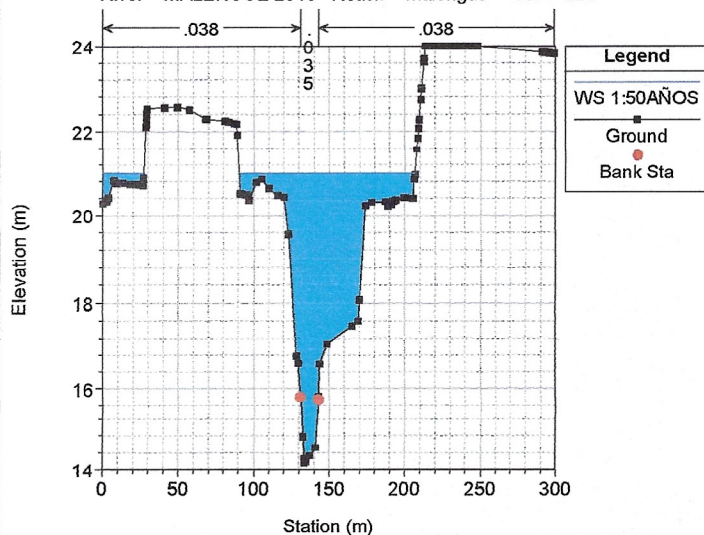
River = MALENGUE 2018 Reach = Malengue RS = 240



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

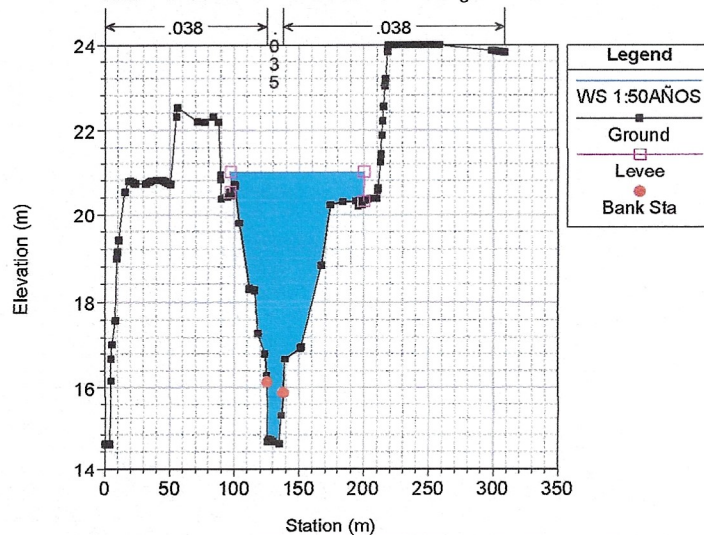
River = MALENGUE 2018 Reach = Malengue RS = 220

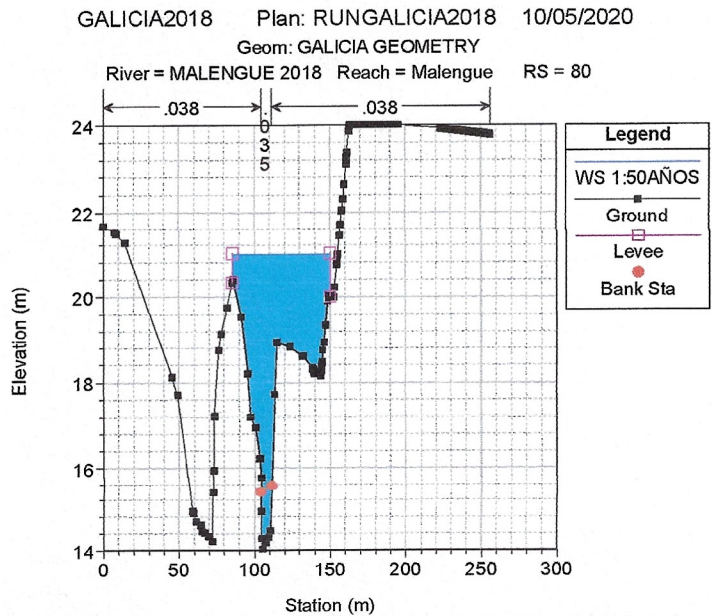
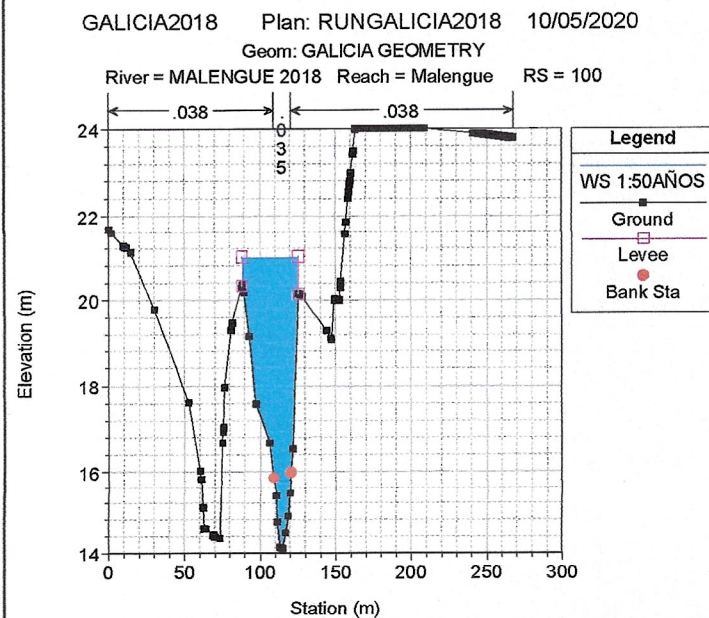
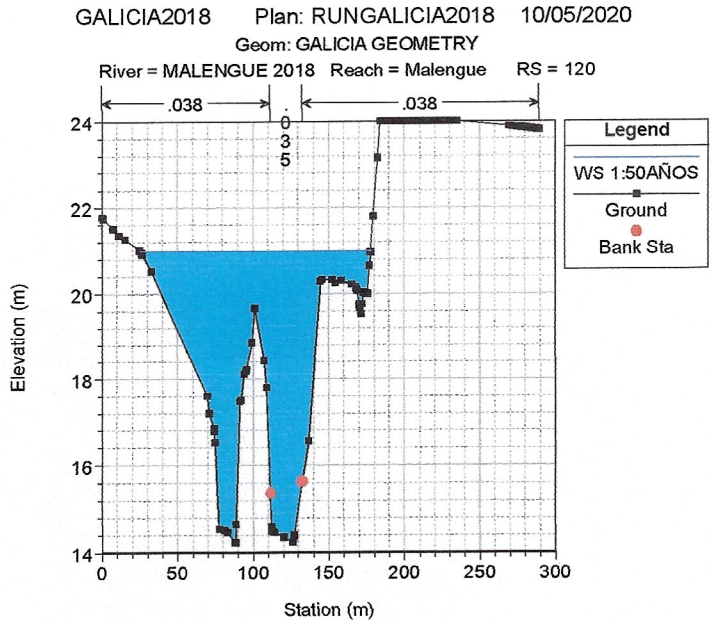
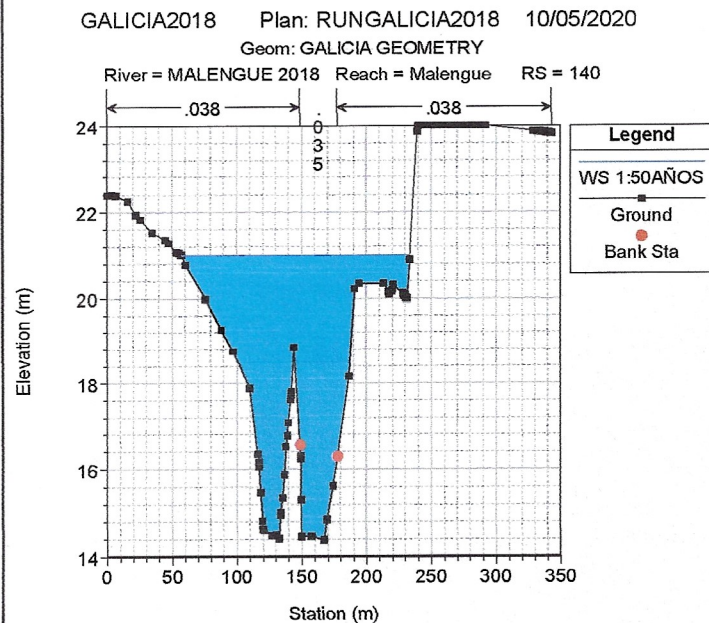
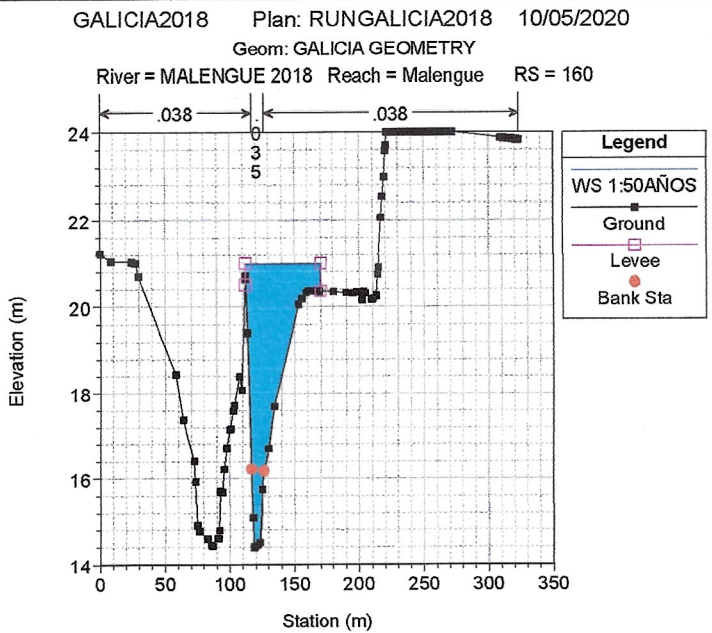
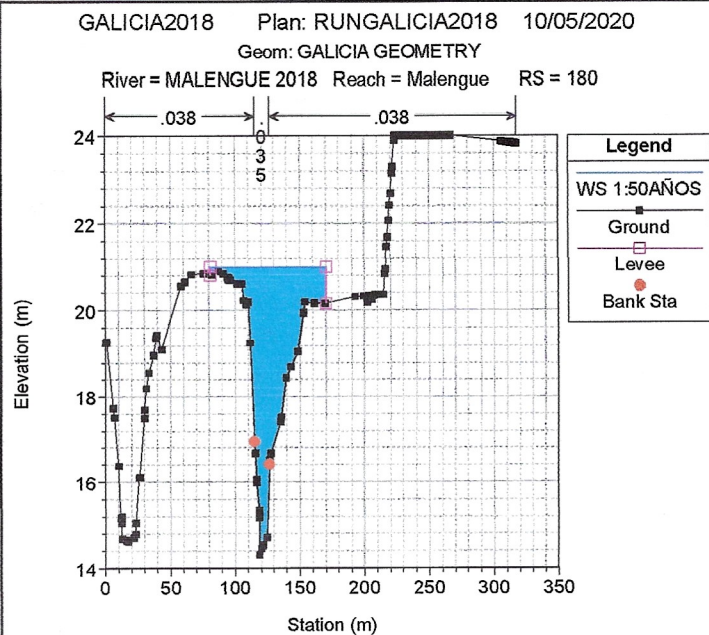


GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

River = MALENGUE 2018 Reach = Malengue RS = 200

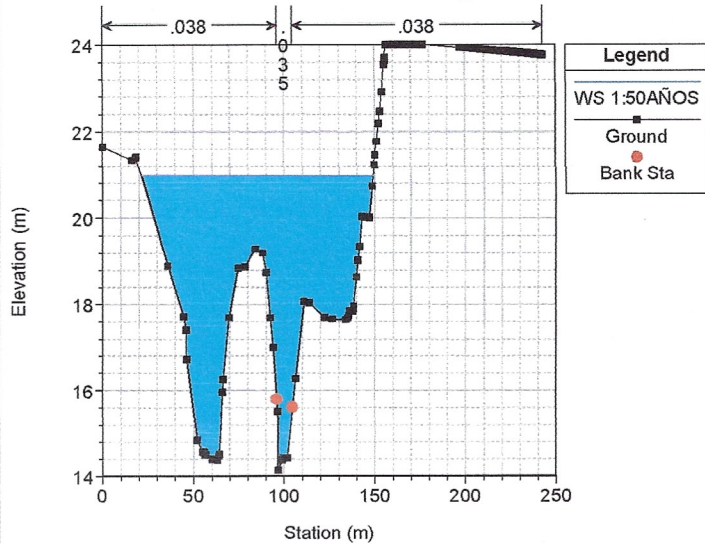




GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

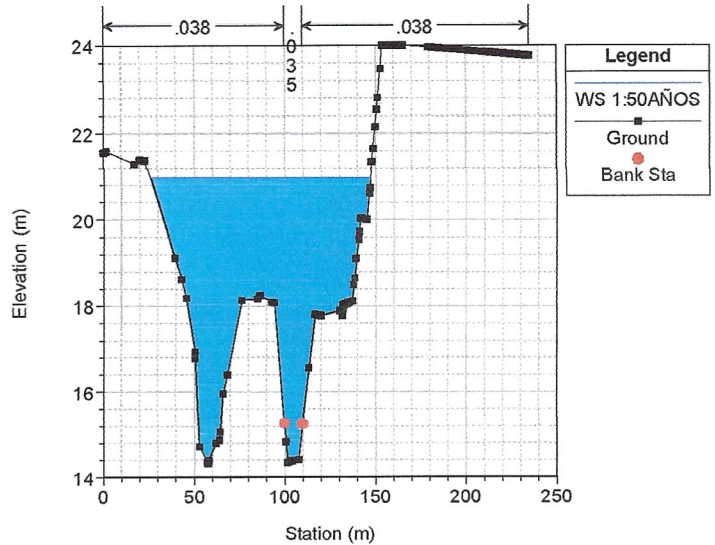
River = MALENGUE 2018 Reach = Malengue RS = 60



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

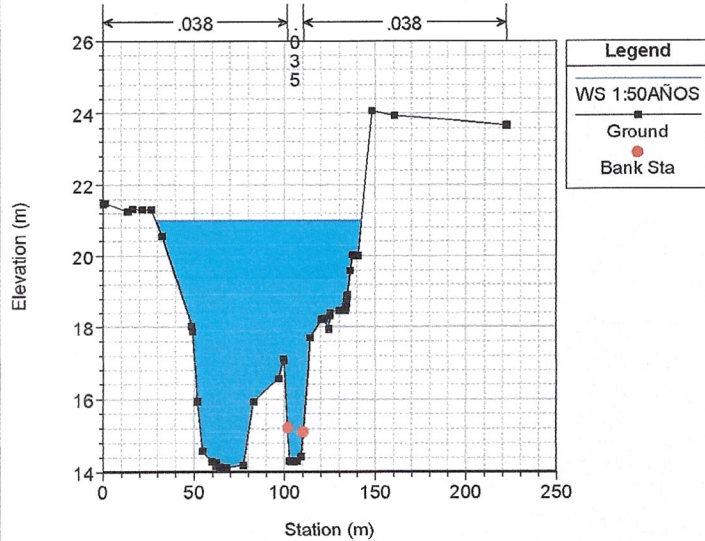
River = MALENGUE 2018 Reach = Malengue RS = 40



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

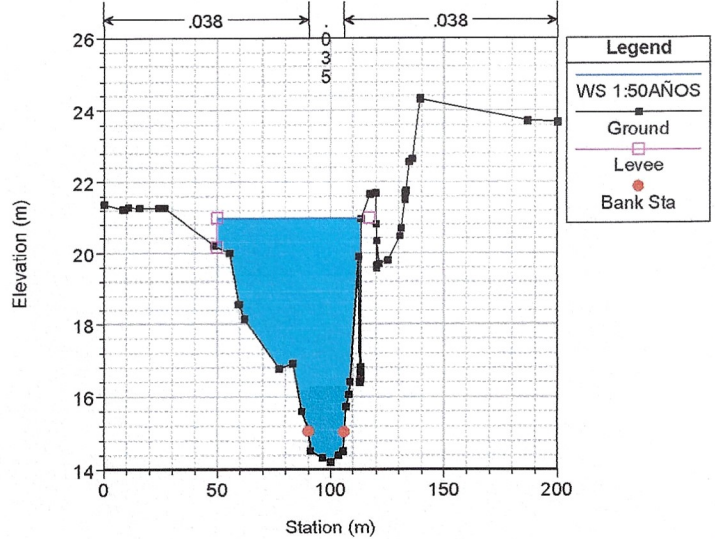
River = MALENGUE 2018 Reach = Malengue RS = 20



GALICIA2018 Plan: RUNGALICIA2018 10/05/2020

Geom: GALICIA GEOMETRY

River = MALENGUE 2018 Reach = Malengue RS = 0



SIDNEY S. SAAVEDRA S.

INGENIERO CIVIL

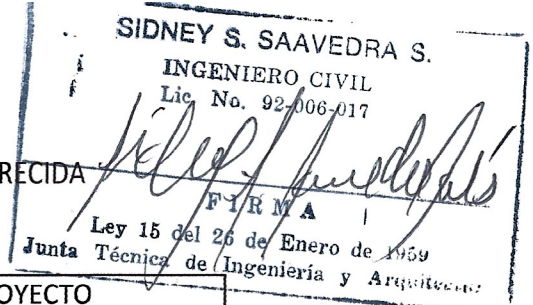
Lic. No. 92-006-01

Sidney S. Saavedra S.
FIRMA

Ley 15 del 26 de Enero de 1959

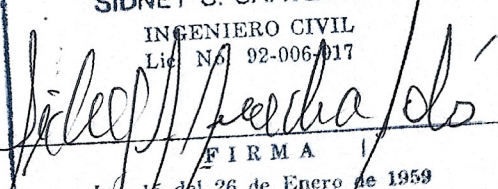
Junta Técnica de Ingeniería y Arquitectura

QUEBRADA MALENGUE
COMPARACION DE NIVELES DE CRECIDA



CONDICION SIN PROYECTO		CONDICION CON PROYECTO		
ESTACION	NIVEL DE AGUAS MAXIMO ESTIMADO	ESTACION	NIVEL DE AGUAS MAXIMO ESTIMADO	DIFERENCIA
1460	21.17	1460	21.28	0.11
1440	21.16	1440	21.20	0.04
1420	21.16	1420	21.21	0.05
1400	21.16	1400	21.23	0.07
1380	21.16	1380	21.16	0.00
1360	21.16	1360	21.21	0.05
1340	21.16	1340	21.22	0.06
1320	21.16	1320	21.20	0.04
1300	21.16	1300	21.19	0.03
1280	21.16	1280	21.16	0.00
1260	21.16	1260	21.14	-0.02
1240	21.15	1240	21.13	-0.02
1220	21.15	1220	21.14	-0.01
1200	21.14	1200	21.15	0.01
1140	21.12	1140	21.05	-0.07
1120	21.11	1120	21.04	-0.07
1100	21.06	1100	21.04	-0.02
1080	21.08	1080	21.08	0.00
1000	21.08	1000	21.08	0.00
980	21.07	980	21.07	0.00
920	21.07	920	21.07	0.00
900	21.07	900	21.08	0.01
880	21.07	880	21.08	0.01
700	21.06	700	21.07	0.01
680	21.05	680	21.05	0.00
660	21.05	660	21.05	0.00
640	21.05	640	21.05	0.00
620	21.05	620	21.05	0.00
600	21.06	600	21.06	0.00
580	21.05	580	21.06	0.01
560	21.03	560	21.05	0.02
540	21.02	540	21.05	0.03
520	21.02	520	21.05	0.03
500	21.02	500	21.05	0.03
480	21.02	480	21.05	0.03
460	21.03	460	21.05	0.02
440	21.00	440	21.04	0.04
420	21.01	420	21.04	0.03

CONDICION SIN PROYECTO		CONDICION CON PROYECTO		DIFERENCIA
ESTACION	NIVEL DE AGUAS MAXIMO ESTIMADO	ESTACION	NIVEL DE AGUAS MAXIMO ESTIMADO	
400	21.01	400	21.04	0.03
380	21.01	380	21.04	0.03
360	21.00	360	21.04	0.04
340	20.99	340	21.03	0.04
320	21.00	320	21.04	0.04
280	21.00	280	21.04	0.04
260	20.99	260	21.03	0.04
240	20.99	240	21.03	0.04
220	21.00	220	21.03	0.03
200	21.00	200	21.03	0.03
180	20.99	180	21.03	0.04
160	20.98	160	21.03	0.05
140	20.99	140	21.03	0.04
120	20.99	120	21.03	0.04
100	20.98	100	21.03	0.05
80	20.98	80	21.03	0.05
60	20.98	60	21.03	0.05
40	20.98	40	21.03	0.05
20	20.98	20	21.03	0.05
0	20.98	0	21.03	0.05

SIDNEY S. SAAVEDRA S.
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 FIRMA
 Ley 15 del 26 de Enero de 1959
 Junta Técnica de Ingeniería y Arquitectura

ANEXO

GENERACION DE PLANICIE DE INUNDACIÓN SIN LEEVES

A continuación, mostramos los resultados de un análisis hecho utilizando los distintos cursos de agua sin el uso de la herramienta LEEVES de Hec-Ras. De esta manera se permite que el agua ocupe toda la sección transversal disponible de acuerdo a la topografía que se tiene.

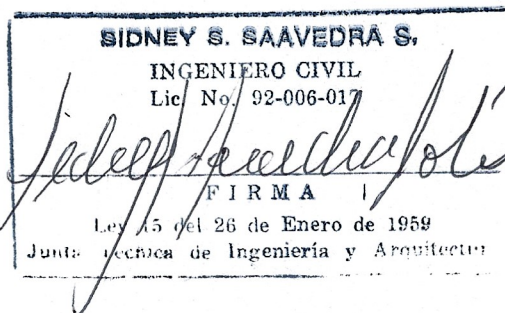
Con este ensayo queremos representar de manera más cercana a la realidad, la posible planicie de inundación actual. También se muestra la planicie de inundación proyectada con los rellenos necesarios para el proyecto.

Lo que se hizo fue realizar una simulación de los distintos cuerpos de agua en la condición actual (sin proyecto) y luego realizar otra simulación con los rellenos proyectados para el proyecto, pero como dijimos antes, sin LEEVES.

En las siguientes páginas se muestran unas tablas para cada curso de agua, en las mismas se muestra el estacionamiento y los niveles de agua con y sin proyecto, y se agregó una columna que muestra la diferencia del nivel del agua entre un análisis y otro.

En dichas tablas se puede observar que la afectación en la inundación es mínima por parte de los rellenos proyectados para el proyecto.

También se adjunta un plano que muestra la mancha de la inundación en ambas condiciones. Producto de la pequeña diferencia del nivel del agua entre el análisis sin proyecto y con proyecto, se puede observar que no hay mayor diferencia entre ambas planicies de inundación para las áreas circundantes.



CUADRO DE COMPARACIÓN DE NIVELES DE INUNDACIÓN
RIO TATARE

SIDNEY S. SAAVEDRA S.

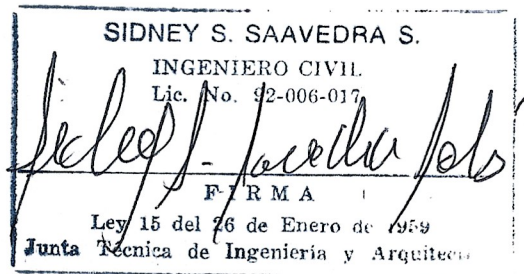
INGENIERO CIVIL

Lic. No. 92-006-01

EST.	CONDICION NATURAL	CONDICION CON TERRACERÍA	DIFERENCIA (TERRACERÍA - NATURAL)		EST.	CONDICION NATURAL	CONDICION CON TERRACERÍA	DIFERENCIA (TERRACERÍA - NATURAL)
2240	20.86	20.81	-0.05		1400	18.72	18.76	0.04
2220	20.86	20.81	-0.05		1380	18.71	18.74	0.03
2200	20.83	20.78	-0.05		1360	18.69	18.72	0.03
2180	20.79	20.74	-0.05		1340	18.67	18.70	0.03
2160	20.76	20.69	-0.07		1320	18.66	18.68	0.02
2140	20.76	20.68	-0.08		1300	18.65	18.65	0.00
2120	20.73	20.64	-0.09		1280	18.64	18.63	-0.01
2100	20.70	20.59	-0.11		1260	18.63	18.61	-0.02
2080	20.60	20.47	-0.13		1240	18.61	18.59	-0.02
2060	19.85	19.85	0.00		1220	18.58	18.55	-0.03
2040	19.94	19.95	0.01		1200	18.53	18.52	-0.01
2020	20.06	20.06	0.00		1180	18.51	18.51	0.00
2000	19.98	19.98	0.00		1160	18.47	18.49	0.02
1980	19.98	19.98	0.00		1140	18.45	18.48	0.03
1960	20.14	20.14	0.00		1120	18.44	18.47	0.03
1940	20.13	20.14	0.01		1100	18.42	18.46	0.04
1920	20.13	20.14	0.01		1080	18.4	18.44	0.04
1900	20.15	20.16	0.01		1060	18.38	18.43	0.05
1880	20.15	20.16	0.01		1040	18.38	18.43	0.05
1860	20.15	20.15	0.00		1020	18.37	18.43	0.06
1840	20.13	20.13	0.00		1000	18.37	18.42	0.05
1820	20.07	19.99	-0.08		980	18.34	18.41	0.07
1800	20.02	19.84	-0.18		960	18.33	18.39	0.06
1780	19.53	19.51	-0.02		940	18.32	18.38	0.06
1760	19.55	19.54	-0.01		920	18.31	18.38	0.07
1740	19.54	19.52	-0.02		900	18.31	18.37	0.06
1700	19.70	19.69	-0.01		880	18.3	18.36	0.06
1680	19.45	19.43	-0.02		860	18.29	18.36	0.07
1660	19.28	19.27	-0.01		840	18.27	18.33	0.06
1640	19.37	19.35	-0.02		820	18.25	18.32	0.07
1620	19.30	19.28	-0.02		800	18.23	18.31	0.08
1600	19.26	19.23	-0.03		780	18.22	18.30	0.08
1580	19.21	19.19	-0.02		760	18.21	18.30	0.09
1560	19.15	19.11	-0.04		740	18.2	18.29	0.09
1540	19.00	18.96	-0.04		720	18.2	18.28	0.08
1520	18.84	18.85	0.01		700	18.2	18.29	0.09
1500	18.72	18.76	0.04		680	18.19	18.28	0.09
1480	18.78	18.81	0.03		660	18.19	18.27	0.08
1460	18.78	18.82	0.04		640	18.18	18.26	0.08
1440	18.77	18.81	0.04		620	18.18	18.25	0.07
1420	18.75	18.78	0.03		600	18.17	18.23	0.06

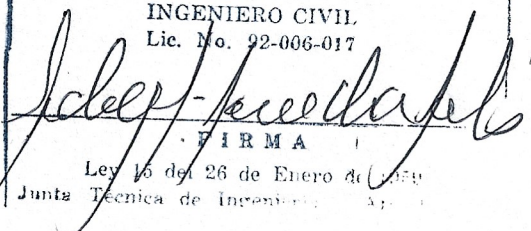
CUADRO DE COMPARACIÓN DE NIVELES DE INUNDACIÓN
RIO TATARE

EST.	CONDICION NATURAL	CONDICION CON TERRACERÍA	DIFERENCIA (TERRACERIA - NATURAL)
580	18.16	18.22	0.06
560	18.10	18.12	0.02
540	18.07	18.10	0.03
520	18.06	18.10	0.04
500	18.05	18.10	0.05
480	18.05	18.09	0.04
460	18.05	18.07	0.02
440	18.04	18.04	0.00
420	18.03	18.00	-0.03
400	18.03	18.01	-0.02
380	18.02	18.00	-0.02
300	18.01	18.00	-0.01
280	18.00	18.00	0.00
260	18.00	18.00	0.00
240	17.86	17.86	0.00
220	17.80	17.80	0.00
200	17.76	17.76	0.00
180	17.73	17.73	0.00
160	17.73	17.73	0.00
140	17.69	17.69	0.00
120	17.65	17.65	0.00
100	17.54	17.54	0.00
80	17.48	17.48	0.00
60	17.43	17.43	0.00
40	17.36	17.36	0.00
20	17.35	17.35	0.00



CUADRO DE COMPARACIÓN DE NIVELES DE INUNDACIÓN
FRUTA MONA

EST.	CONDICION NATURAL	CONDICION CON TERRACERÍA	DIFERENCIA (TERRACERIA - NATURAL)		EST.	CONDICION NATURAL	CONDICION CON TERRACERÍA	DIFERENCIA (TERRACERIA - NATURAL)
1060	18.32	18.31	-0.01		240	18.06	18.1	0.04
1040	18.32	18.31	-0.01		220	18.06	18.1	0.04
1020	18.30	18.29	-0.01		200	18.06	18.1	0.04
1000	18.26	18.25	-0.01		180	18.06	18.1	0.04
980	18.11	18.14	0.03		160	18.06	18.1	0.04
960	18.05	18.12	0.07		140	18.06	18.1	0.04
940	18.11	18.16	0.05		120	18.06	18.1	0.04
920	18.10	18.15	0.05		100	18.06	18.1	0.04
900	18.10	18.15	0.05		80	18.06	18.1	0.04
880	18.10	18.15	0.05		60	18.06	18.1	0.04
860	18.08	18.14	0.06		40	18.06	18.1	0.04
840	18.07	18.13	0.06		20	18.06	18.1	0.04
820	18.06	18.12	0.06		0	18.06	18.1	0.04
800	18.06	18.11	0.05					
780	18.06	18.11	0.05					
760	18.06	18.11	0.05					
740	18.06	18.11	0.05					
720	18.06	18.11	0.05					
700	18.06	18.1	0.04					
680	18.06	18.1	0.04					
660	18.06	18.1	0.04					
640	18.06	18.1	0.04					
620	18.06	18.1	0.04					
600	18.06	18.1	0.04					
580	18.06	18.1	0.04					
560	18.06	18.1	0.04					
540	18.06	18.1	0.04					
520	18.06	18.1	0.04					
500	18.06	18.1	0.04					
480	18.06	18.1	0.04					
460	18.06	18.1	0.04					
440	18.06	18.1	0.04					
420	18.06	18.1	0.04					
400	18.06	18.1	0.04					
380	18.06	18.1	0.04					
360	18.06	18.1	0.04					
340	18.06	18.1	0.04					
320	18.06	18.1	0.04					
300	18.06	18.1	0.04					
280	18.06	18.1	0.04					
260	18.06	18.1	0.04					

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FIRMA
 Ley 16 del 26 de Enero de 1989
 Junta Técnica de Ingeniería

CUADRO DE COMPARACIÓN DE NIVELES DE INUNDACIÓN
CAÑA BRAVA

EST.	CONDICION NATURAL	CONDICION CON TERRACERÍA	DIFERENCIA (TERRACERIA - NATURAL)	EST.	CONDICION NATURAL	CONDICION CON TERRACERÍA	DIFERENCIA (TERRACERIA - NATURAL)
1605	21.00	21.02	0.02	820	18.41	18.56	0.15
1600	20.99	20.97	-0.02	800	18.40	18.56	0.16
1580	20.94	20.93	-0.01	780	18.40	18.55	0.15
1560	20.82	20.82	0.00	760	18.40	18.55	0.15
1540	20.80	20.80	0.00	740	18.40	18.54	0.14
1520	20.71	20.73	0.02	720	18.39	18.52	0.13
1500	20.68	20.72	0.04	700	18.39	18.52	0.13
1480	20.51	20.54	0.03	680	18.37	18.43	0.06
1460	20.21	20.21	0.00	660	18.36	18.45	0.09
1440	20.21	20.21	0.00	640	18.34	18.44	0.10
1420	20.28	20.24	-0.04	620	18.35	18.45	0.10
1400	20.27	20.25	-0.02	600	18.35	18.44	0.09
1380	20.25	20.23	-0.02	580	18.35	18.44	0.09
1360	20.24	20.21	-0.03	560	18.35	18.45	0.10
1340	20.20	20.16	-0.04	540	18.35	18.45	0.10
1320	20.15	20.15	0.00	520	18.35	18.45	0.10
1300	20.16	20.17	0.01	500	18.35	18.45	0.10
1280	20.04	19.98	-0.06	480	18.35	18.44	0.09
1260	19.90	19.88	-0.02	460	18.35	18.45	0.10
1240	19.87	19.87	0.00	440	18.35	18.45	0.10
1220	19.88	19.87	-0.01	420	18.34	18.44	0.10
1200	19.82	19.81	-0.01	400	18.34	18.43	0.09
1180	19.60	19.61	0.01	380	18.34	18.42	0.08
1160	19.49	19.49	0.00	360	18.34	18.42	0.08
1140	19.41	19.41	0.00	340	18.34	18.41	0.07
1120	19.09	19.09	0.00	320	18.34	18.38	0.04
1100	19.19	19.19	0.00	300	18.33	18.38	0.05
1080	19.00	19.00	0.00	280	18.33	18.39	0.06
1060	18.78	18.77	-0.01	260	18.33	18.40	0.07
1040	18.70	18.69	-0.01	240	18.33	18.40	0.07
1020	18.52	18.57	0.05	220	18.33	18.40	0.07
1000	18.34	18.52	0.18	200	18.33	18.40	0.07
980	18.40	18.57	0.17	180	18.33	18.40	0.07
960	18.44	18.59	0.15	160	18.33	18.40	0.07
940	18.41	18.58	0.17	140	18.33	18.39	0.06
920	18.41	18.57	0.16	120	18.33	18.39	0.06
900	18.42	18.56	0.14	100	18.33	18.39	0.06
880	18.41	18.56	0.15	80	18.33	18.39	0.06
860	18.40	18.56	0.16	60	18.33	18.39	0.06
840	18.41	18.56	0.15	40	18.33	18.39	0.06

INGENIERO CIVIL
Lic. No. 92-006-017

FIRMA
Ley 15 del 26 de Enero de 1977
Junta Técnica de Ingeniería Arquitecta

CUADRO DE COMPARACIÓN DE NIVELES DE INUNDACIÓN
PUEBLO NUEVO

EST.	CONDICION NATURAL	CONDICION CON TERRACERÍA	DIFERENCIA (TERRACERIA - NATURAL)		EST.	CONDICION NATURAL	CONDICION CON TERRACERÍA	DIFERENCIA (TERRACERIA - NATURAL)
1212	19.70	19.70	0.00		380	18.38	18.48	0.10
1200	19.71	19.71	0.00		360	18.37	18.47	0.10
1180	19.81	19.81	0.00		340	18.37	18.47	0.10
1160	19.26	19.26	0.00		320	18.38	18.47	0.09
1140	19.40	19.40	0.00		300	18.36	18.46	0.10
1120	19.41	19.41	0.00		280	18.35	18.45	0.10
1100	19.38	19.38	0.00		260	18.34	18.44	0.10
1080	19.40	19.40	0.00		240	18.35	18.45	0.10
1040	19.37	19.37	0.00		220	18.35	18.45	0.10
1020	19.38	19.38	0.00		200	18.35	18.45	0.10
1000	19.31	19.31	0.00		180	18.35	18.45	0.10
980	18.79	18.79	0.00		160	18.35	18.45	0.10
960	18.85	18.88	0.03		140	18.35	18.45	0.10
940	18.79	18.82	0.03		120	18.35	18.45	0.10
920	18.50	18.58	0.08		100	18.35	18.45	0.10
900	18.67	18.72	0.05		80	18.35	18.45	0.10
880	18.55	18.61	0.06		60	18.35	18.45	0.10
860	18.61	18.67	0.06		40	18.35	18.45	0.10
840	18.54	18.60	0.06		20	18.35	18.45	0.10
820	18.57	18.63	0.06		0	18.35	18.45	0.10
800	18.51	18.58	0.07					
780	18.52	18.59	0.07					
760	18.51	18.58	0.07					
740	18.52	18.60	0.08					
720	18.49	18.57	0.08					
700	18.50	18.58	0.08					
680	18.47	18.55	0.08					
660	18.46	18.54	0.08					
640	18.42	18.51	0.09					
620	18.41	18.51	0.10					
600	18.44	18.52	0.08					
580	18.44	18.52	0.08					
560	18.44	18.52	0.08					
540	18.42	18.51	0.09					
520	18.42	18.51	0.09					
500	18.40	18.49	0.09					
480	18.39	18.49	0.10					
460	18.37	18.47	0.10					
440	18.39	18.48	0.09					
420	18.38	18.48	0.10					
400	18.37	18.47	0.10					

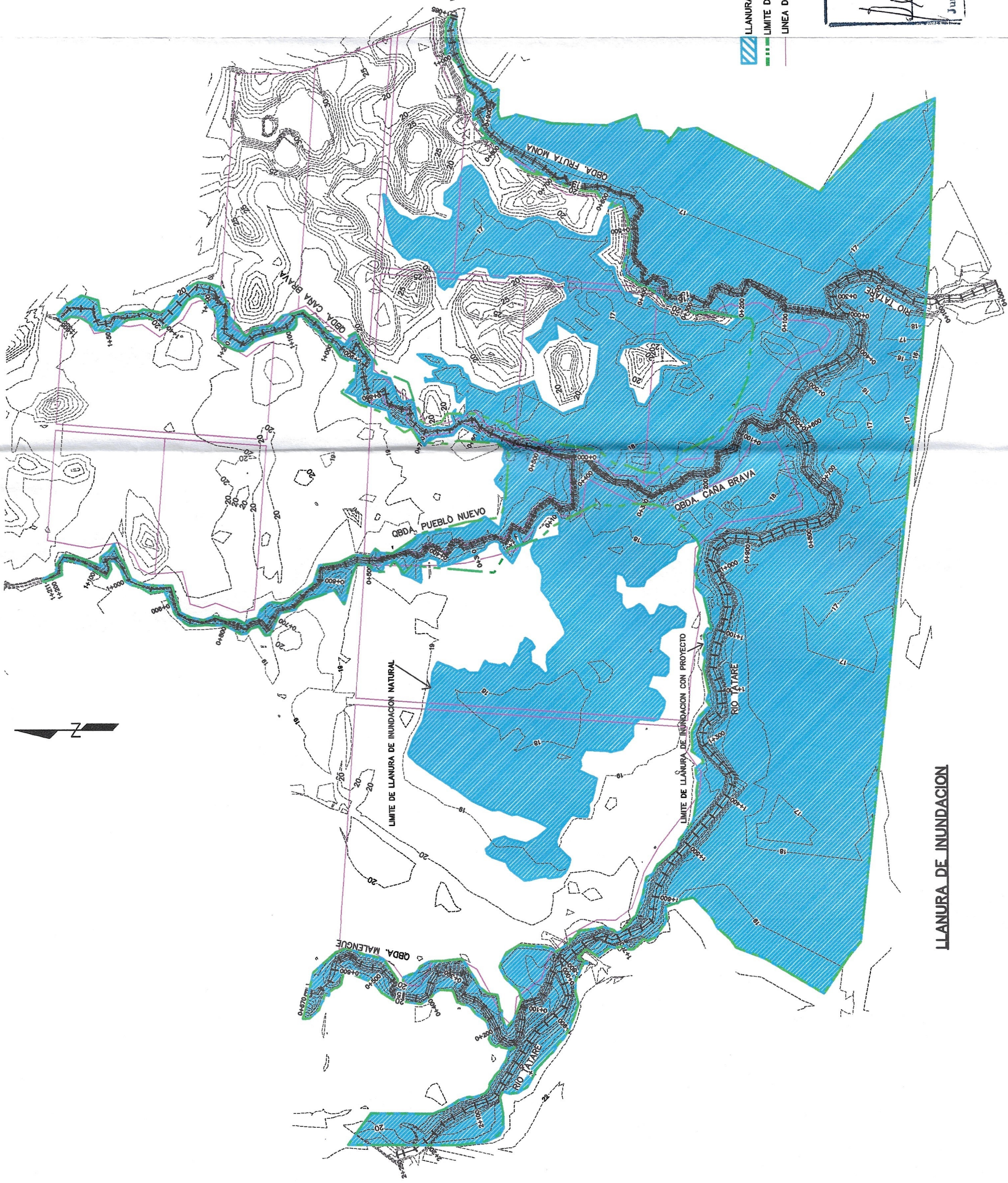
CUADRO DE COMPARACIÓN DE NIVELES DE INUNDACIÓN
MALENGUE

EST.	CONDICION NATURAL	CONDICION CON TERRACERÍA	DIFERENCIA (TERRACERIA - NATURAL)		EST.	CONDICION NATURAL	CONDICION CON TERRACERÍA	DIFERENCIA (TERRACERIA - NATURAL)
1460	20.92	20.77	-0.15		520	20.24	20.21	-0.03
1440	20.89	20.76	-0.13		500	20.22	20.20	-0.02
1420	20.74	20.76	0.02		480	20.22	20.21	-0.01
1400	20.75	20.76	0.01		460	20.20	20.20	0.00
1380	20.73	20.76	0.03		440	20.15	20.16	0.01
1360	20.72	20.76	0.04		420	20.17	20.18	0.01
1340	20.75	20.76	0.01		400	20.17	20.18	0.01
1320	20.74	20.76	0.02		380	20.18	20.19	0.01
1300	20.71	20.76	0.05		360	20.15	20.17	0.02
1280	20.65	20.75	0.10		340	20.15	20.16	0.01
1260	20.60	20.75	0.15		320	20.15	20.16	0.01
1240	20.48	20.74	0.26		280	20.15	20.17	0.02
1220	20.48	20.74	0.26		260	20.15	20.15	0.00
1200	20.57	20.74	0.17		240	20.15	20.15	0.00
1160	20.57	20.74	0.17		200	20.15	20.16	0.01
1140	20.57	20.74	0.17		180	20.15	20.17	0.02
1120	20.48	20.70	0.22		160	20.15	20.17	0.02
1100	20.33	20.66	0.33		140	20.15	20.16	0.01
1080	20.46	20.68	0.22		120	20.15	20.16	0.01
1060	20.46	20.68	0.22		100	20.15	20.16	0.01
1040	20.46	20.68	0.22		80	20.15	20.16	0.01
1020	20.45	20.68	0.23		60	20.15	20.16	0.01
1000	20.40	20.65	0.25		40	20.15	20.16	0.01
980	20.41	20.64	0.23		20	20.15	20.16	0.01
920	20.39	20.62	0.23					
880	20.38	20.57	0.19					
860	20.36	20.31	-0.05					
840	20.36	20.31	-0.05					
780	20.38	20.33	-0.05					
760	20.38	20.32	-0.06					
740	20.38	20.33	-0.05					
720	20.36	20.31	-0.05					
700	20.26	20.24	-0.02					
680	20.30	20.26	-0.04					
660	20.30	20.26	-0.04					
640	20.32	20.28	-0.04					
620	20.31	20.28	-0.03					
600	20.32	20.28	-0.04					
580	20.26	20.24	-0.02					
560	20.26	20.21	-0.05					
540	20.24	20.21	-0.03					

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FIRMA

Ley 15 del 26 de Enero de 1959
Junta Técnica de Ingeniería y Arquitectura



LLANURA DE INUNDACION NATURAL
LIMITE DE LLANURA DE INUNDACION CON PROYECTO
LINEA DE PROPIEDAD DE FINCAS QUE FORMAN PUERTAS DE GALICIA

SIDNEY S. SAAVEDRA S.
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