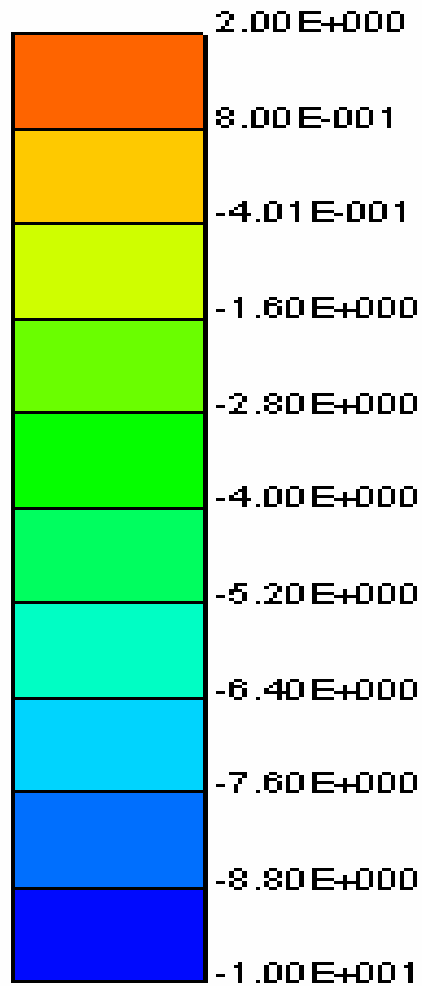


ANEJO 4

RESUMEN DE RESULTADOS DE PASADAS DEL MODELO EN SECCIÓN VERTICAL DE LAS PANTALLAS

INTERPRETACIÓN DE LOS DATOS

ESCALA MAPAS DE NIVELES



INTERPRETACIÓN DE LOS DATOS DE LAS TABLAS

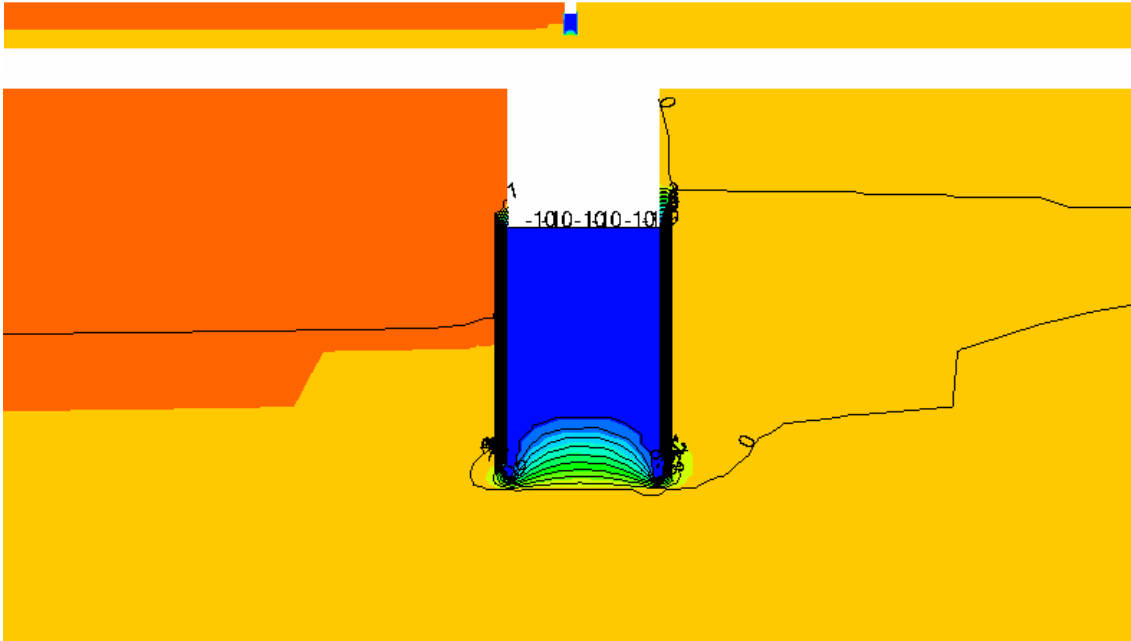
- Coordenada X del modelo:
 - Dominio del modelo: [-500 m., +500 m.]
 - Eje de simetría de la pantalla se sitúa en $x=0$ m.
 - Cara exterior pantalla izquierda: $x=-6.5$ m.
 - Cara interior pantalla izquierda: $x=-5.5$ m.
 -
- Coordenada Z del modelo:
 - Dominio del modelo: [0 m., -40 m.]
 - Fondo de la excavación: $z=-10$ m.

RESUMEN DE LAS PASADAS ADJUNTADAS

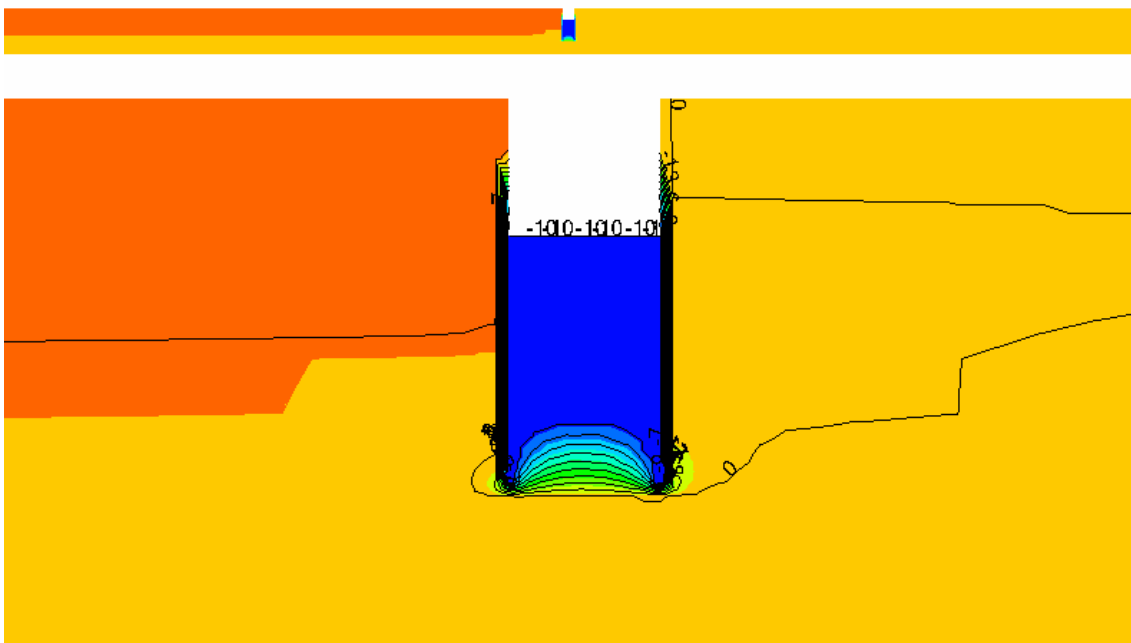
Nomenclatura de las pasadas	Conductividades Hidráulicas		Condiciones de Contorno		
	Geología	Pantallas (m/d)	Rezume	Sangradoras	Acuíf. Ppal.
G1P1C1	G1	0.00001	No	Si	No Fluyente
G1P1C2	G1	0.00001	Si	Si	No Fluyente
G1P1C3	G1	0.00001	Si	Si	Fluyente
G1P1C4	G1	0.00001	Si	No	Fluyente
G1P1C5	G1	0.00001	Si	No	No Fluyente
G1P2C1	G1	0.1	No	Si	No Fluyente
G1P2C2	G1	0.1	Si	Si	No Fluyente
G1P2C3	G1	0.1	Si	Si	Fluyente
G1P2C4	G1	0.1	Si	No	Fluyente
G1P2C5	G1	0.1	Si	No	No Fluyente
G1P3C1	G1	0.01	No	Si	No Fluyente
G1P3C2	G1	0.01	Si	Si	No Fluyente
G1P3C3	G1	0.01	Si	Si	Fluyente
G1P3C4	G1	0.01	Si	No	Fluyente
G1P3C5	G1	0.01	Si	No	No Fluyente
G2P1C2	G2	0.00001	Si	Si	No Fluyente
G2P1C3	G2	0.00001	Si	Si	Fluyente
G2P1C4	G2	0.00001	Si	No	Fluyente
G2P1C5	G2	0.00001	Si	No	No Fluyente
G2P3C2	G2	0.01	Si	Si	No Fluyente
G2P3C3	G2	0.01	Si	Si	Fluyente
G2P3C4	G2	0.01	Si	No	Fluyente
G2P3C5	G2	0.01	Si	No	No Fluyente
G3P1C5	G3	0.000001	Si	No	No Fluyente
G3P3C3	G3	0.01	Si	Si	Fluyente
G3P3C5	G3	0.01	Si	No	No Fluyente
G4P1C5	G4	0.00001	Si	No	No Fluyente
G4P3C5	G4	0.01	Si	No	No Fluyente

MAPAS DE NIVELES

G1P1C1

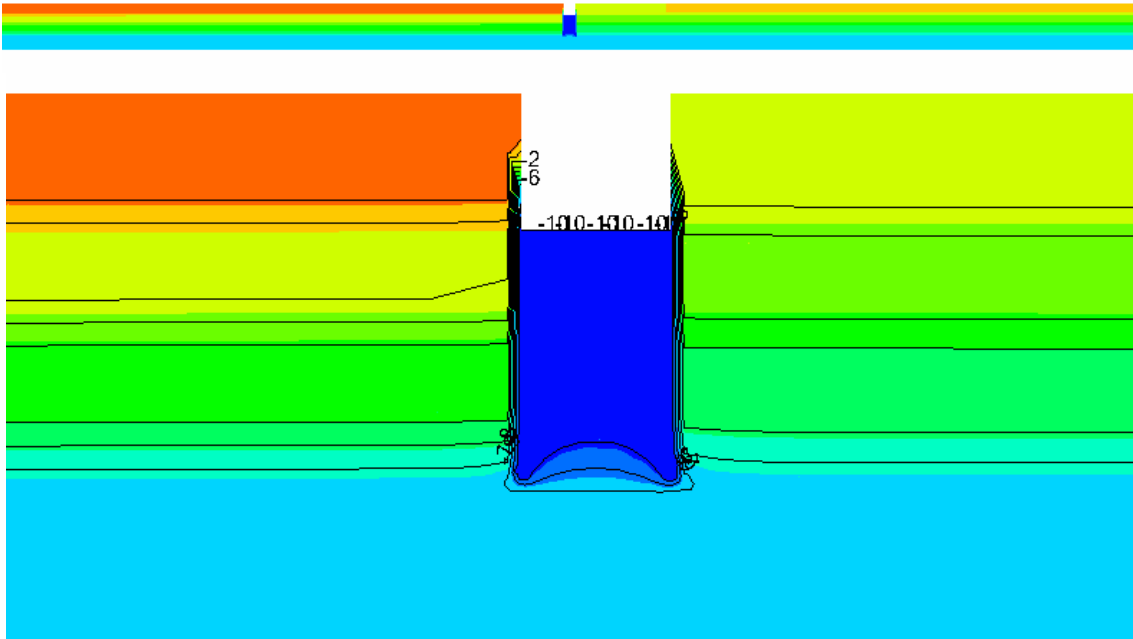


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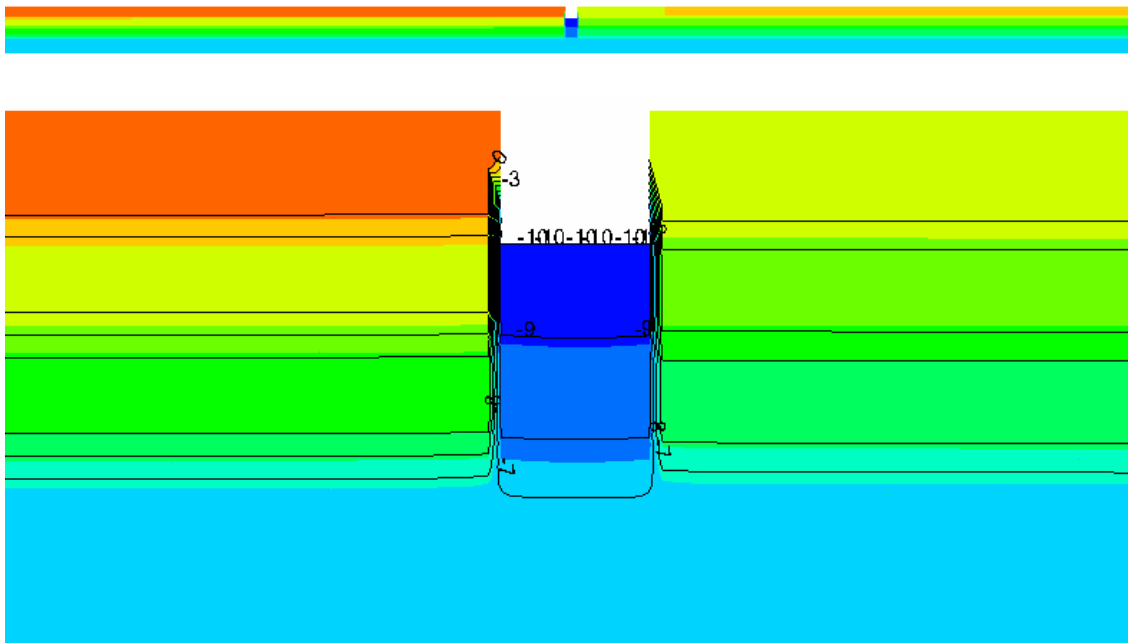


MAPAS DE NIVELES

G1P1C3

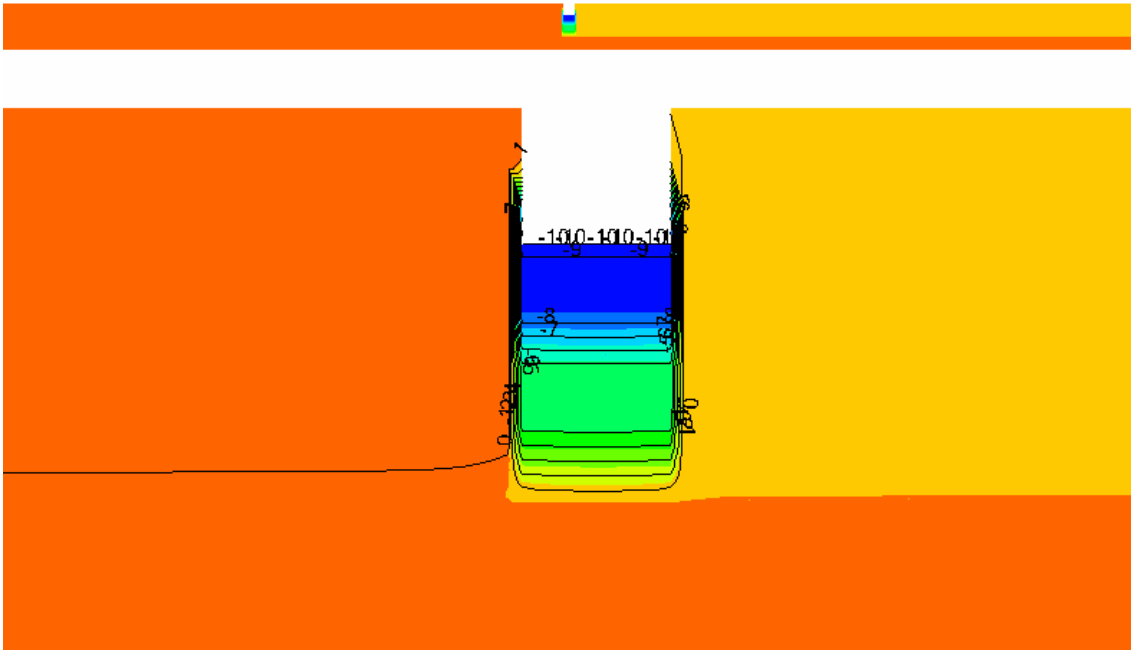


G1P1C4

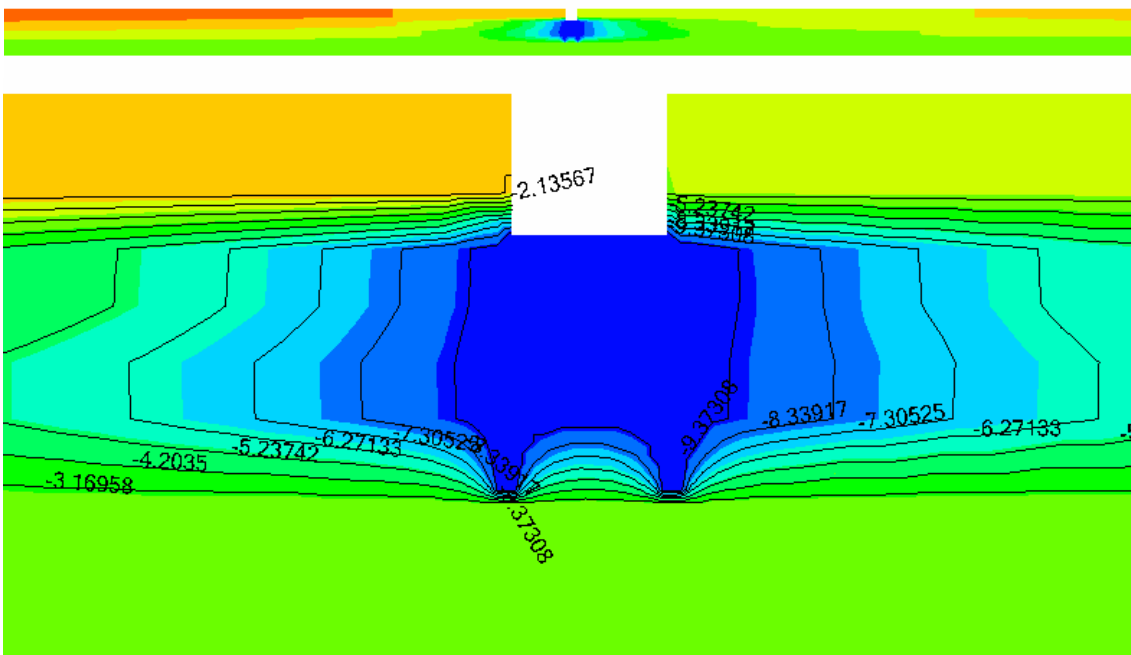


MAPA DE NIVELES

G1P1C5

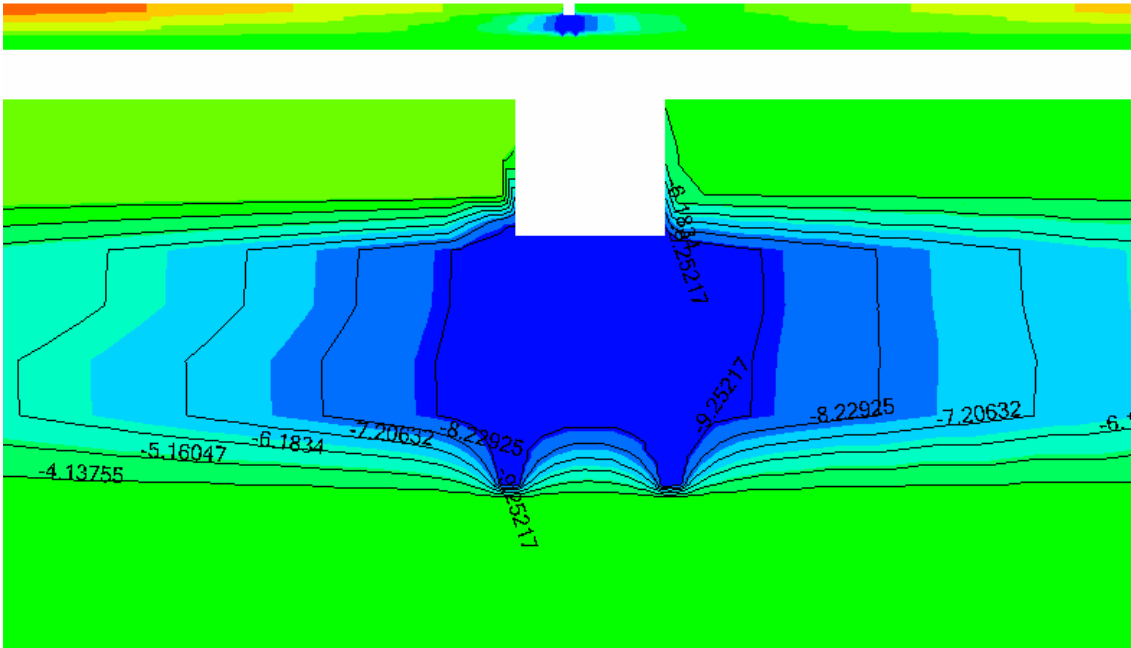


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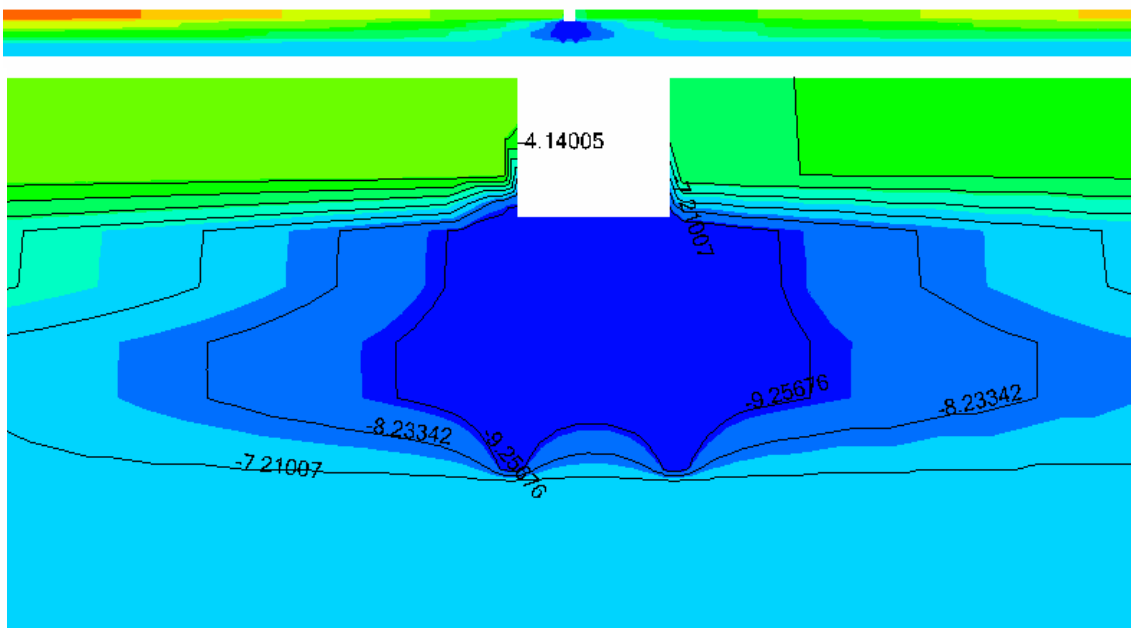


MAPAS DE NIVELES

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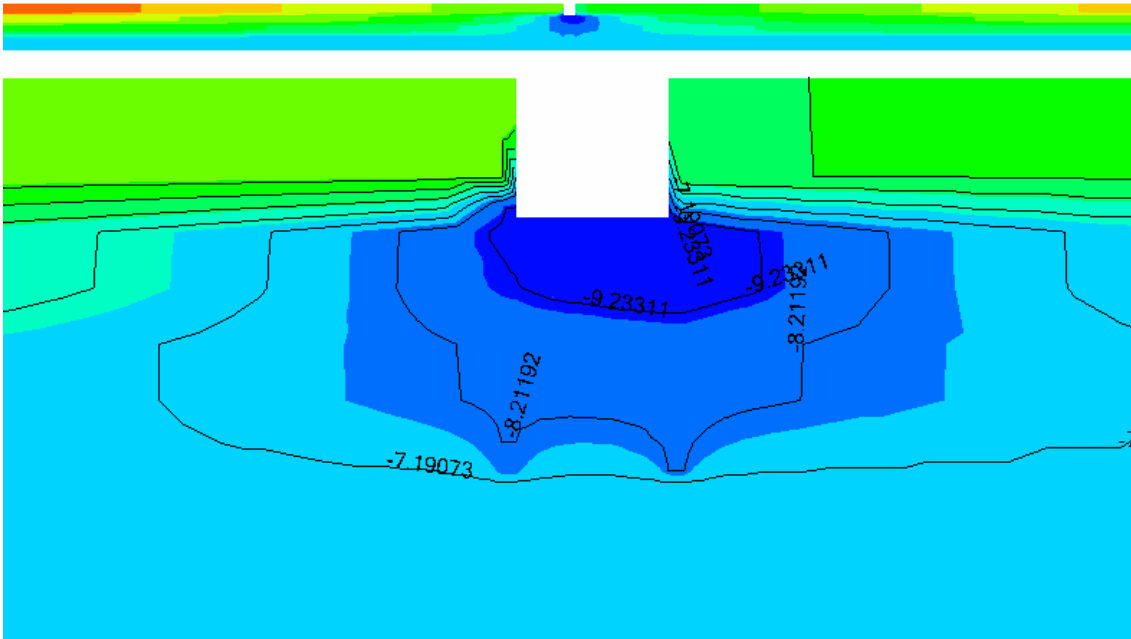


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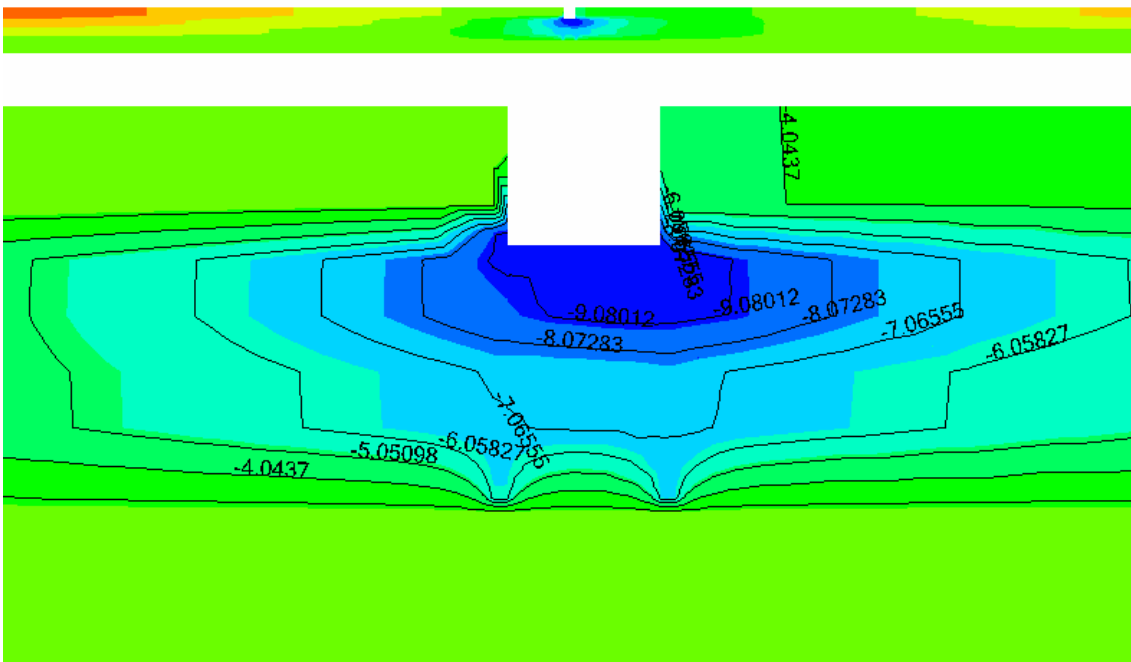


MAPAS DE NIVELES

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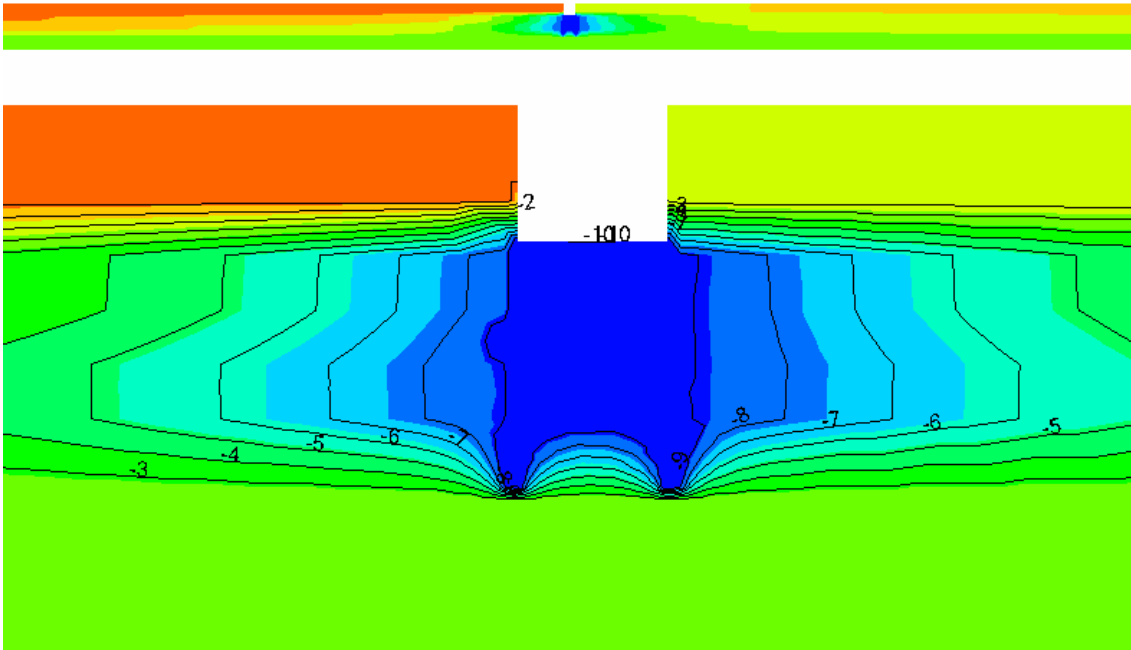


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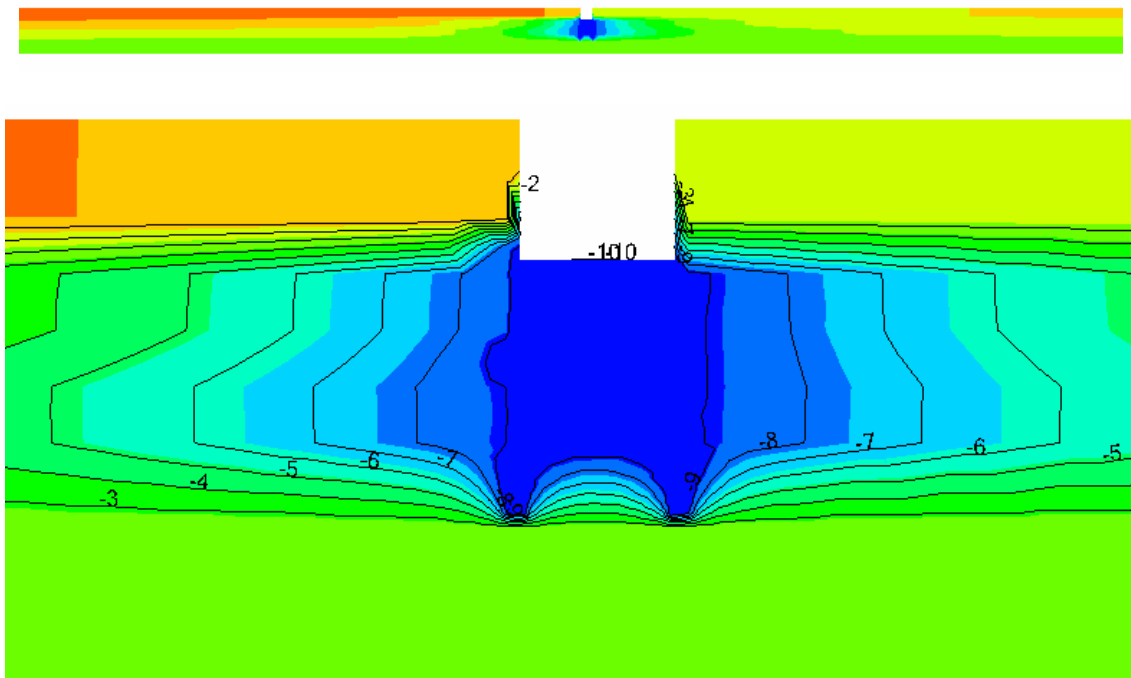


MAPAS DE NIVELES

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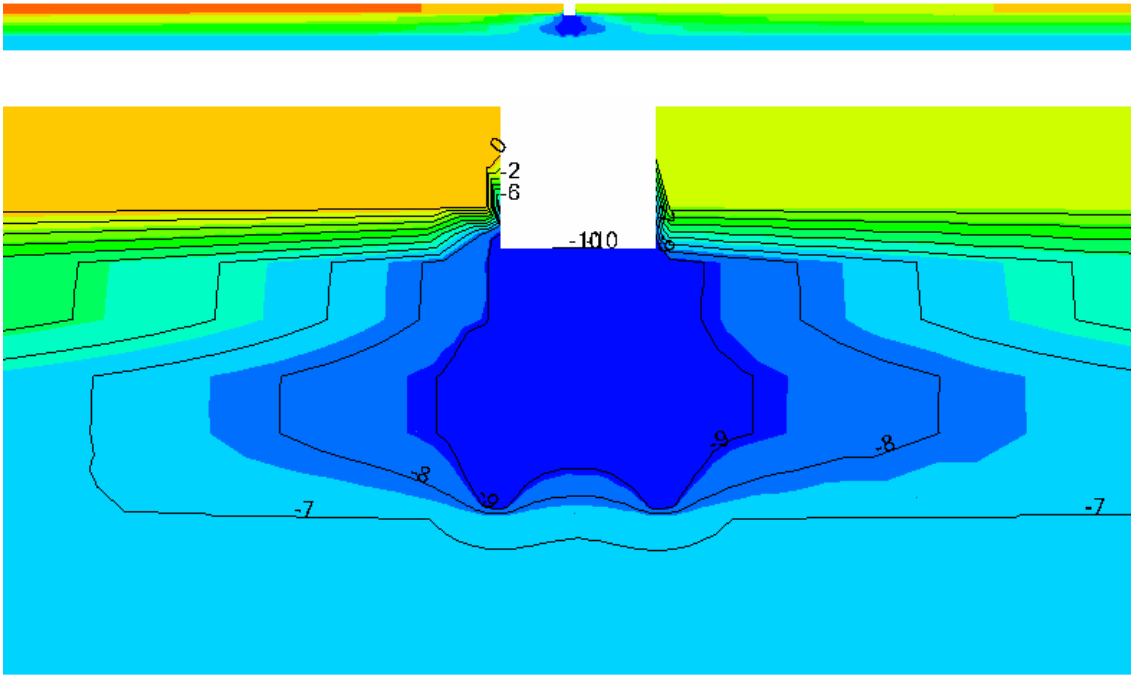


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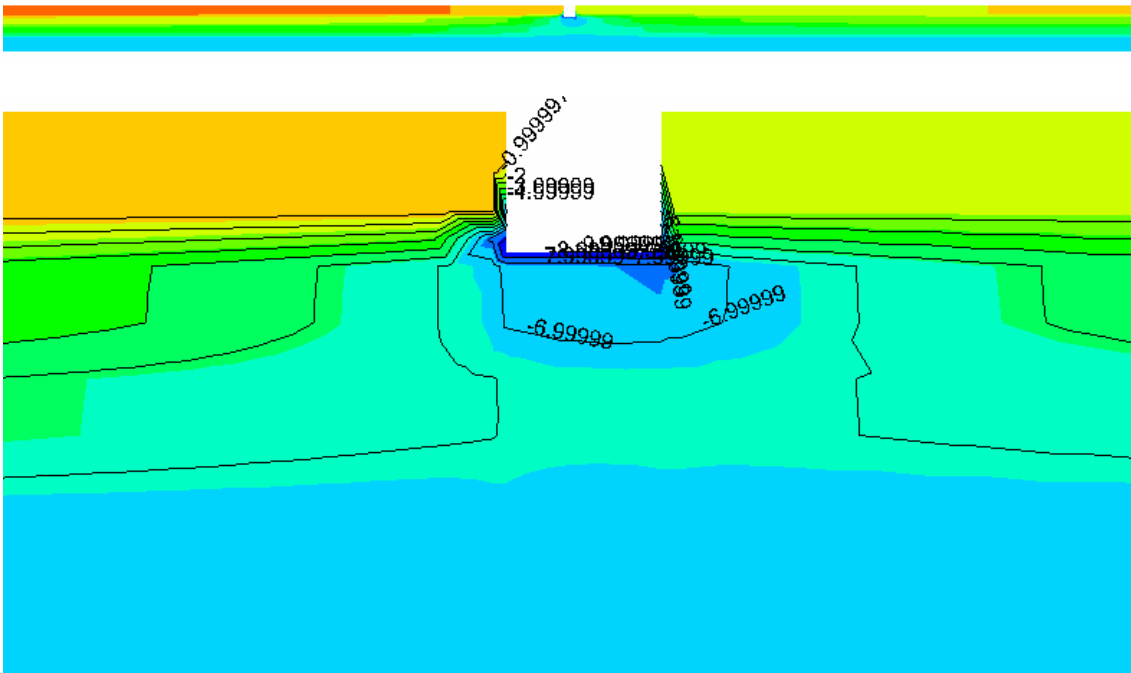


MAPAS DE NIVELES

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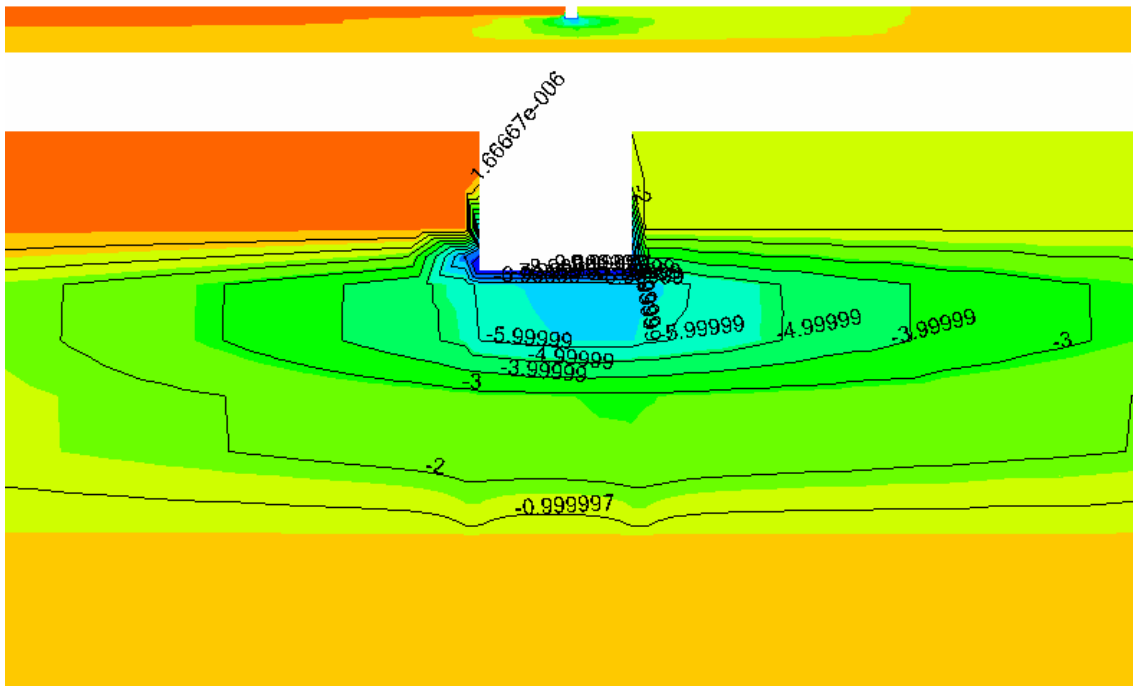


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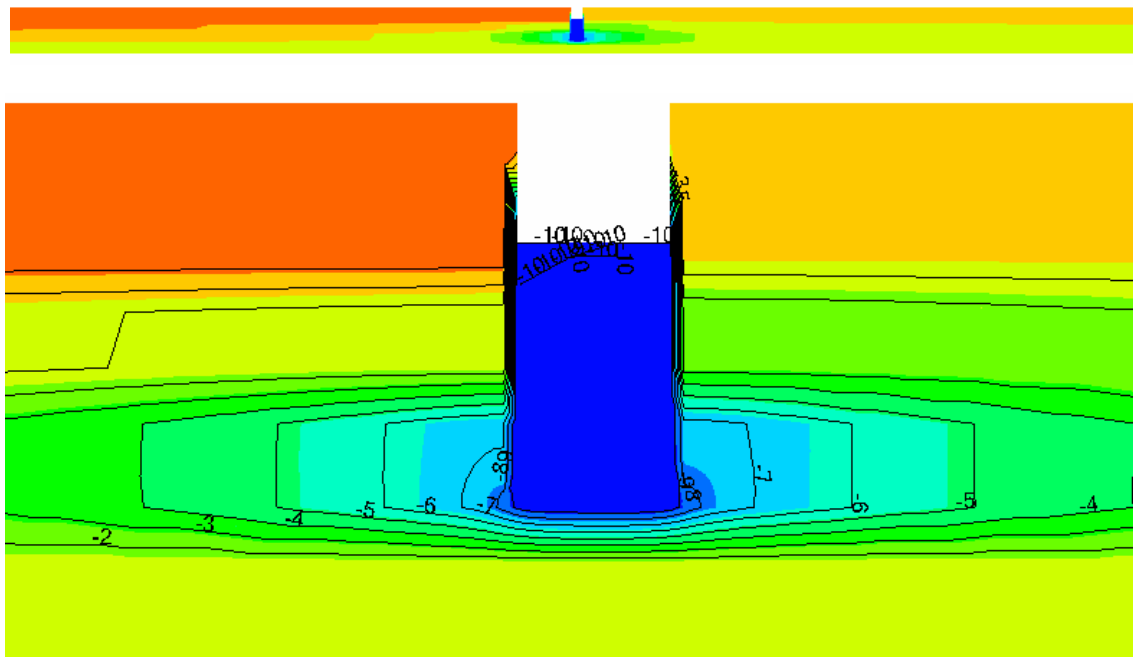


MAPAS DE NIVELES

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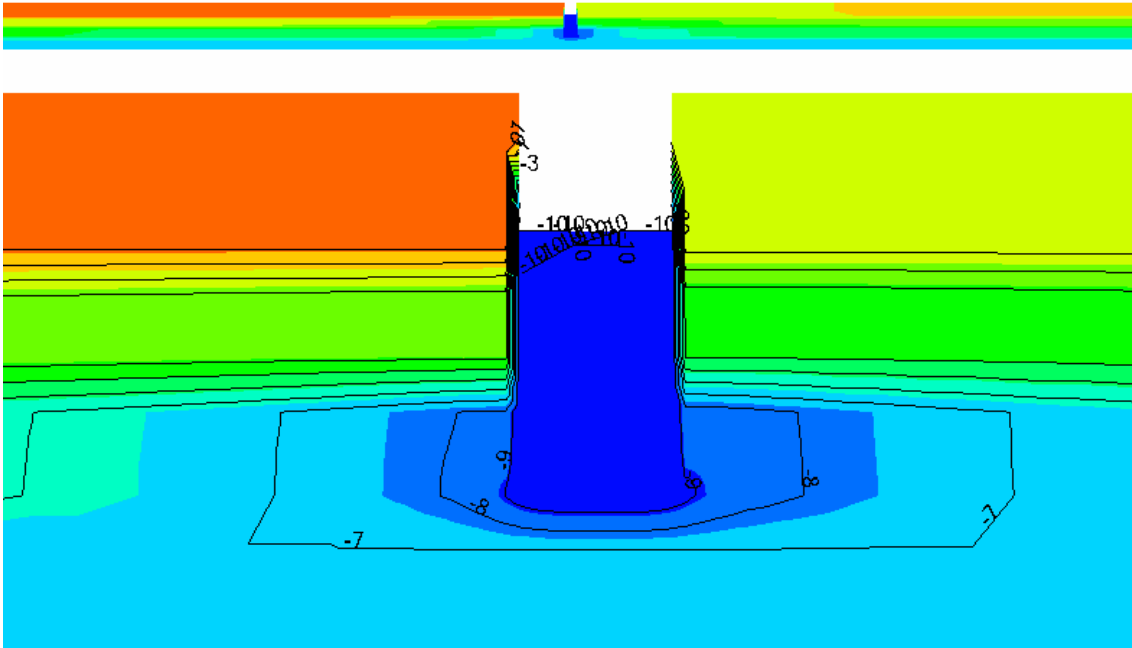


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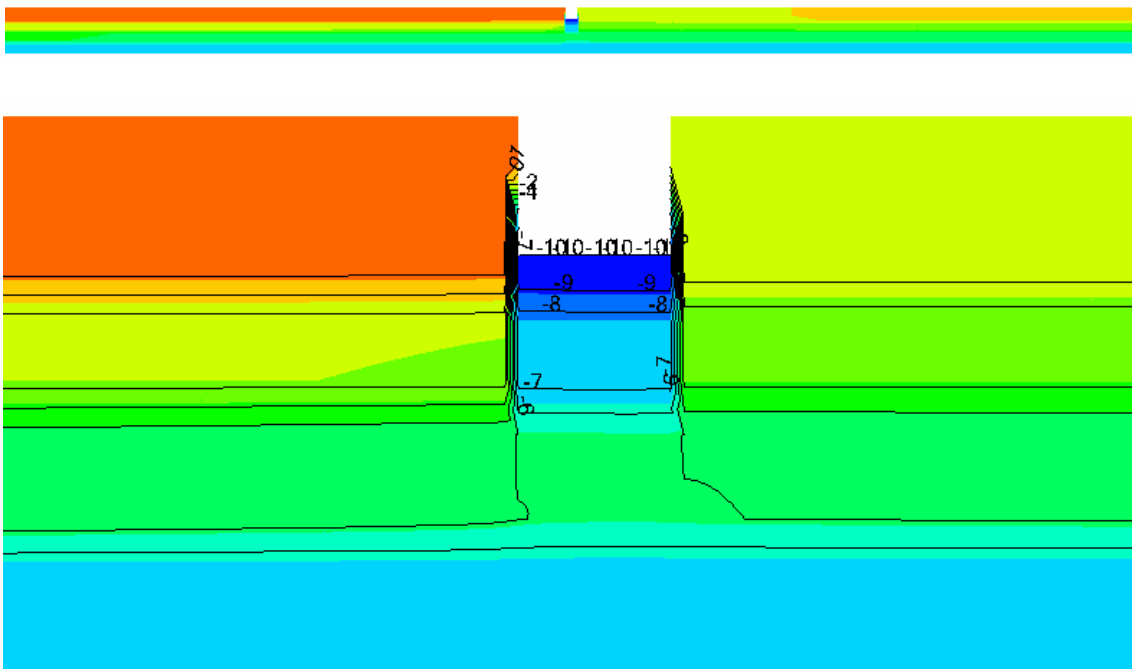


MAPAS DE NIVELES

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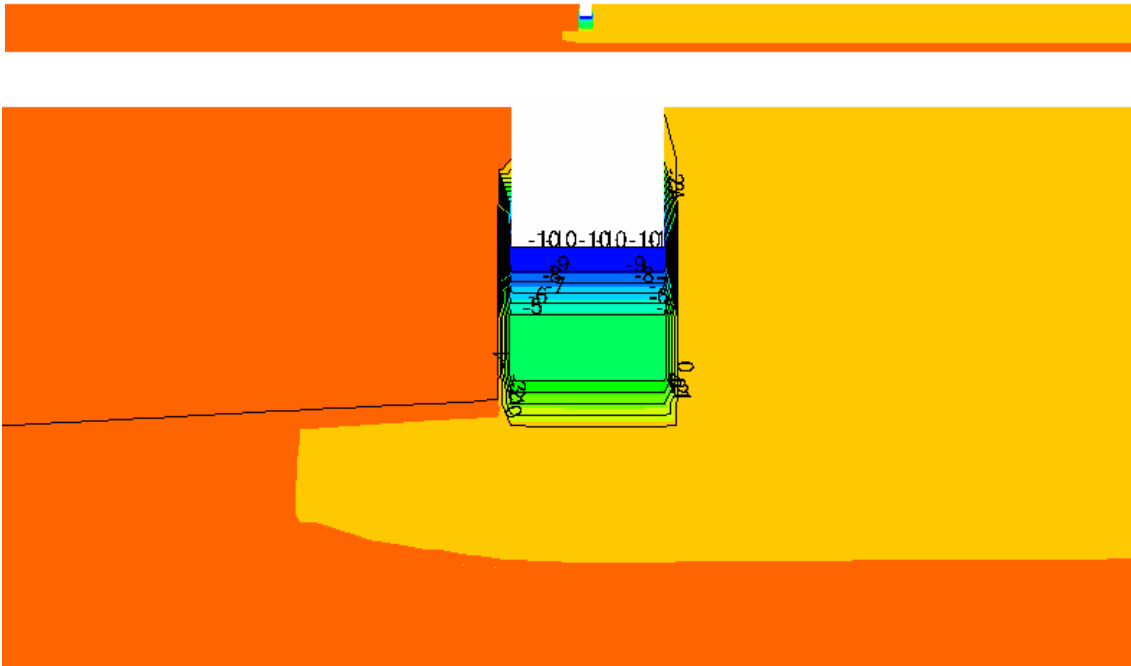


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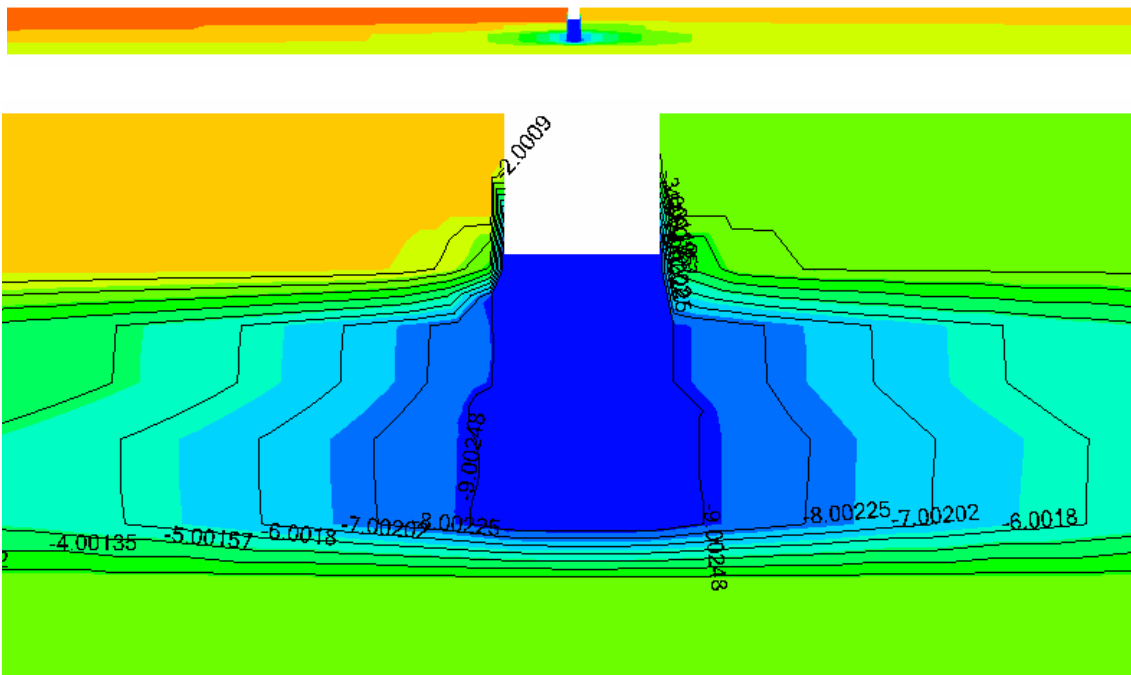


MAPAS DE NIVELES

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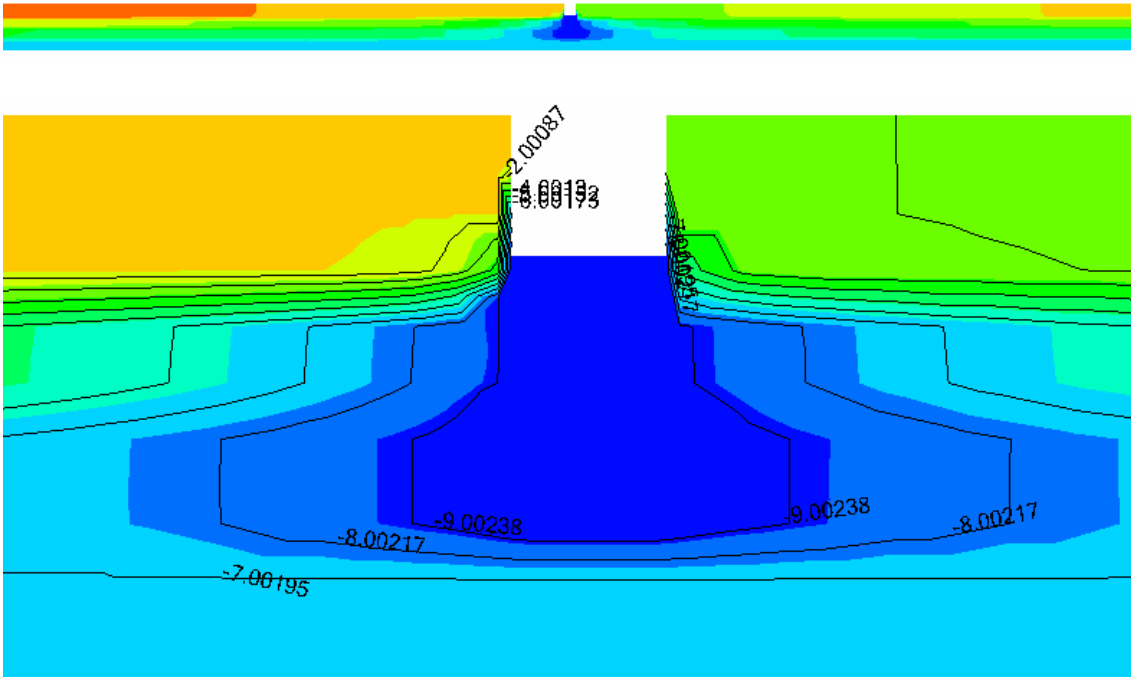


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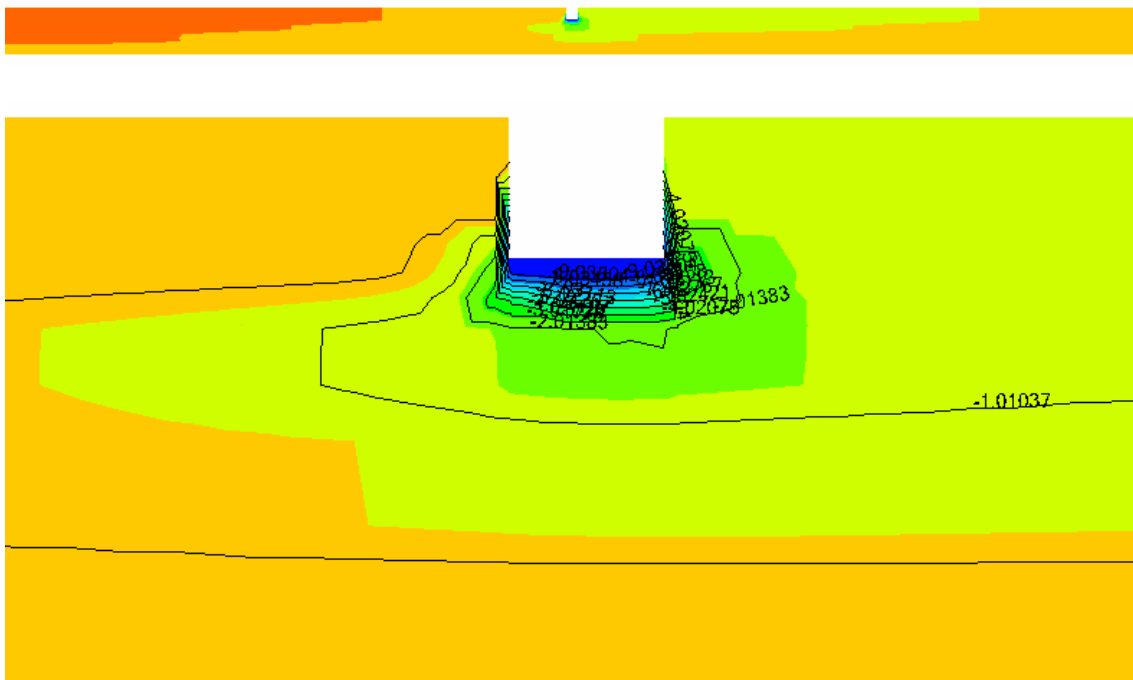
MAPAS DE NIVELES

G2P3C3

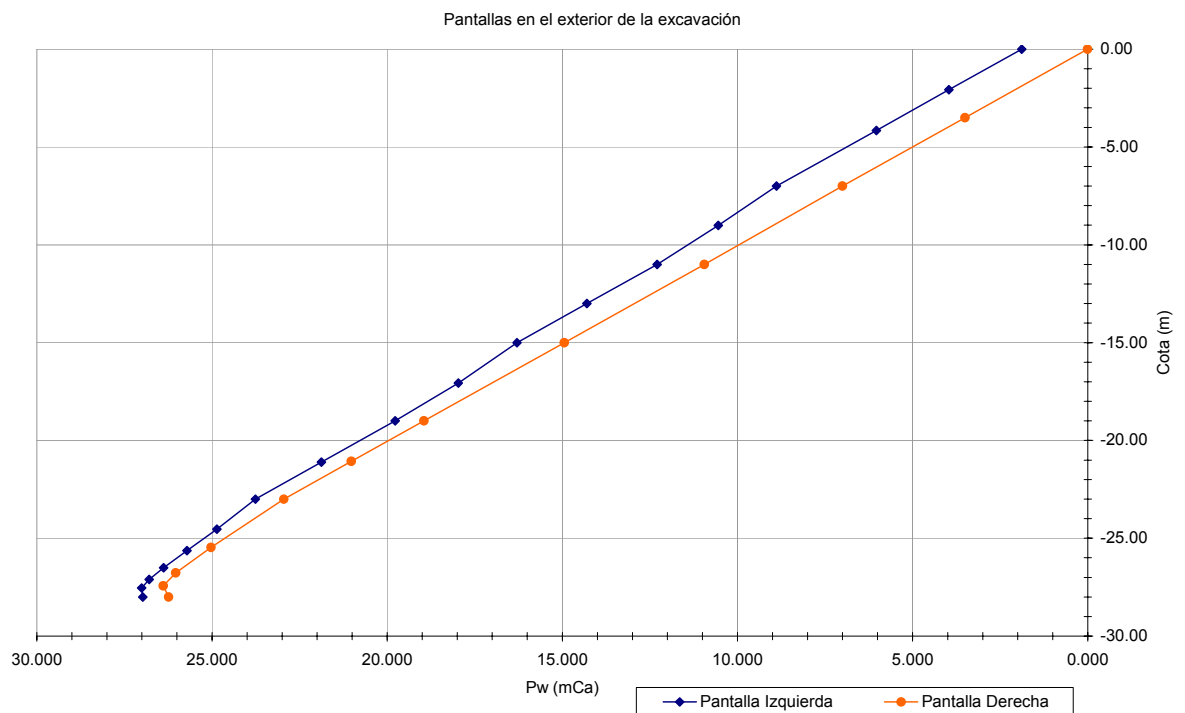
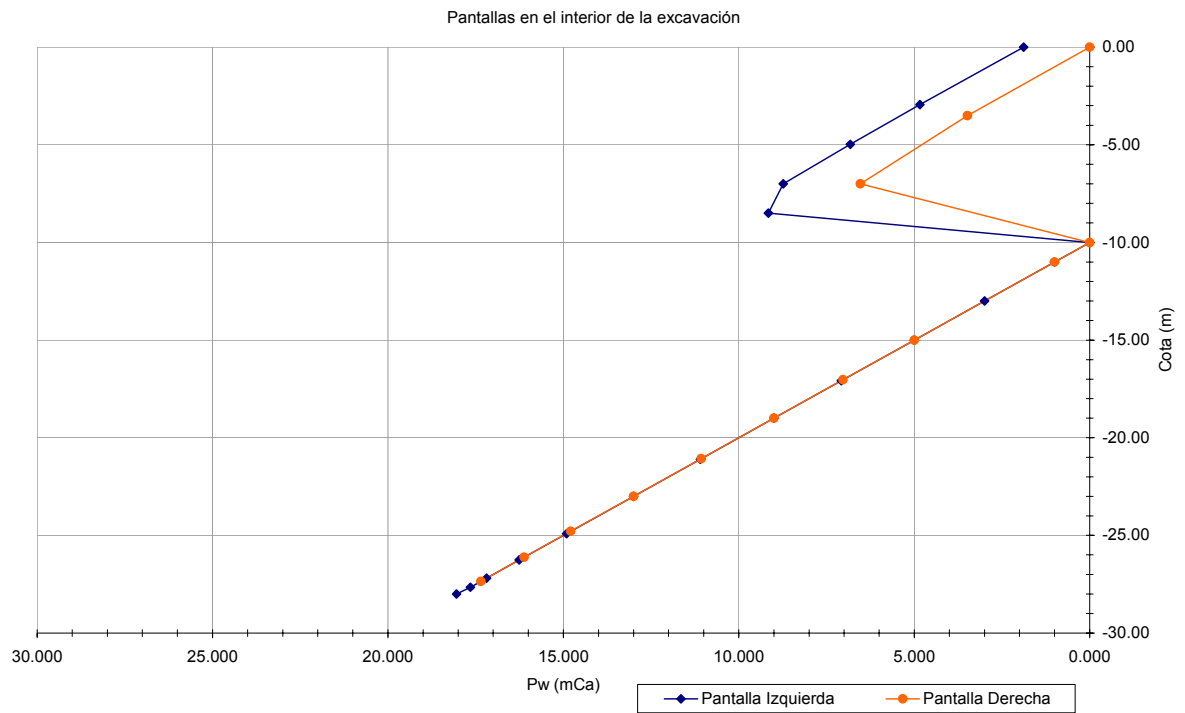


G2P3C4





PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	1.888	1.888
627	-6.500	-2.074	1.888	3.962
668	-6.500	-4.149	1.888	6.037
626	-6.500	-7.000	1.888	8.888
623	-6.500	-9.000	1.549	10.549
665	-6.500	-11.000	1.298	12.298
664	-6.500	-13.000	1.296	14.296
708	-6.500	-15.000	1.292	16.292
707	-6.500	-17.070	0.899	17.969
752	-6.500	-19.000	0.771	19.771
759	-6.500	-21.110	0.769	21.879
721	-6.500	-23.000	0.765	23.765
761	-6.500	-24.540	0.322	24.862
802	-6.500	-25.640	0.079	25.719
770	-6.500	-26.510	-0.125	26.385
731	-6.500	-27.110	-0.317	26.793
730	-6.500	-27.540	-0.532	27.008
686	-6.500	-28.000	-1.022	26.978

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	1.888	1.888
670	-5.500	-2.950	1.888	4.838
714	-5.500	-4.975	1.844	6.819
669	-5.500	-7.000	1.735	8.735
667	-5.500	-8.500	0.660	9.160
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-10.000	1.000
710	-5.500	-13.000	-10.000	3.000
751	-5.500	-15.000	-10.000	5.000
753	-5.500	-17.080	-10.000	7.080
795	-5.500	-19.000	-10.000	9.000
796	-5.500	-21.100	-9.999	11.101
762	-5.500	-23.000	-9.999	13.001
803	-5.500	-24.910	-10.000	14.910
814	-5.500	-26.260	-10.000	16.260
813	-5.500	-27.190	-10.000	17.190
808	-5.500	-27.650	-10.000	17.650
807	-5.500	-28.000	-9.957	18.043

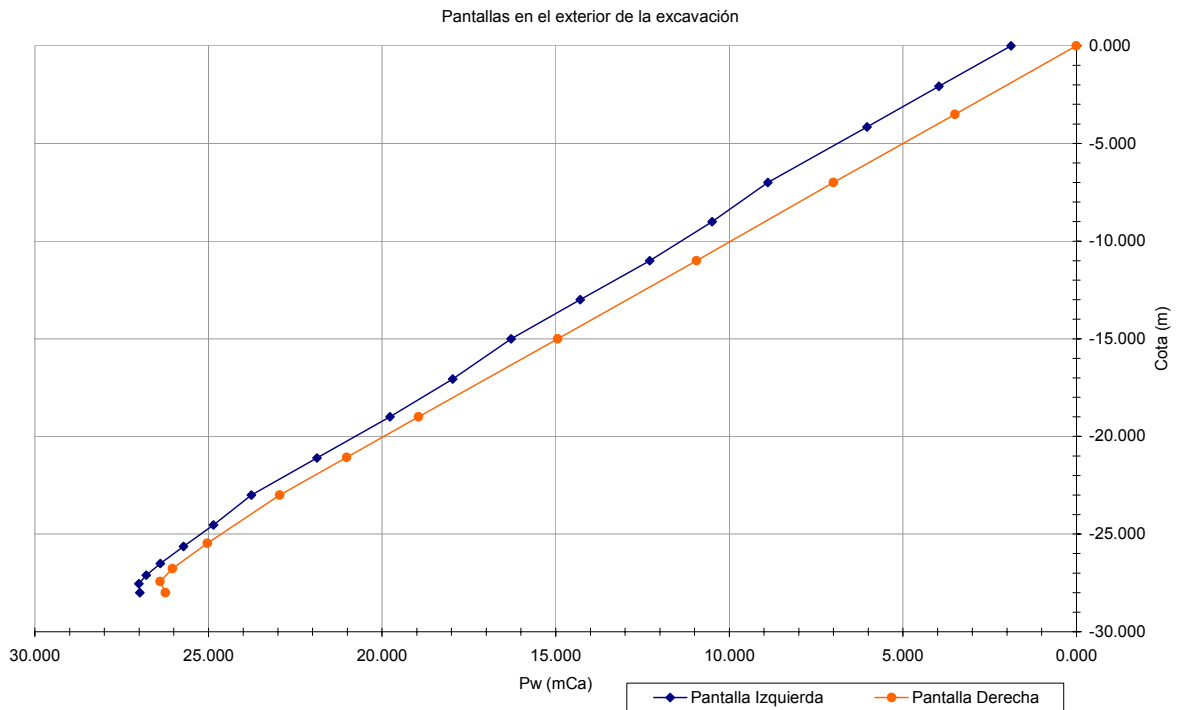
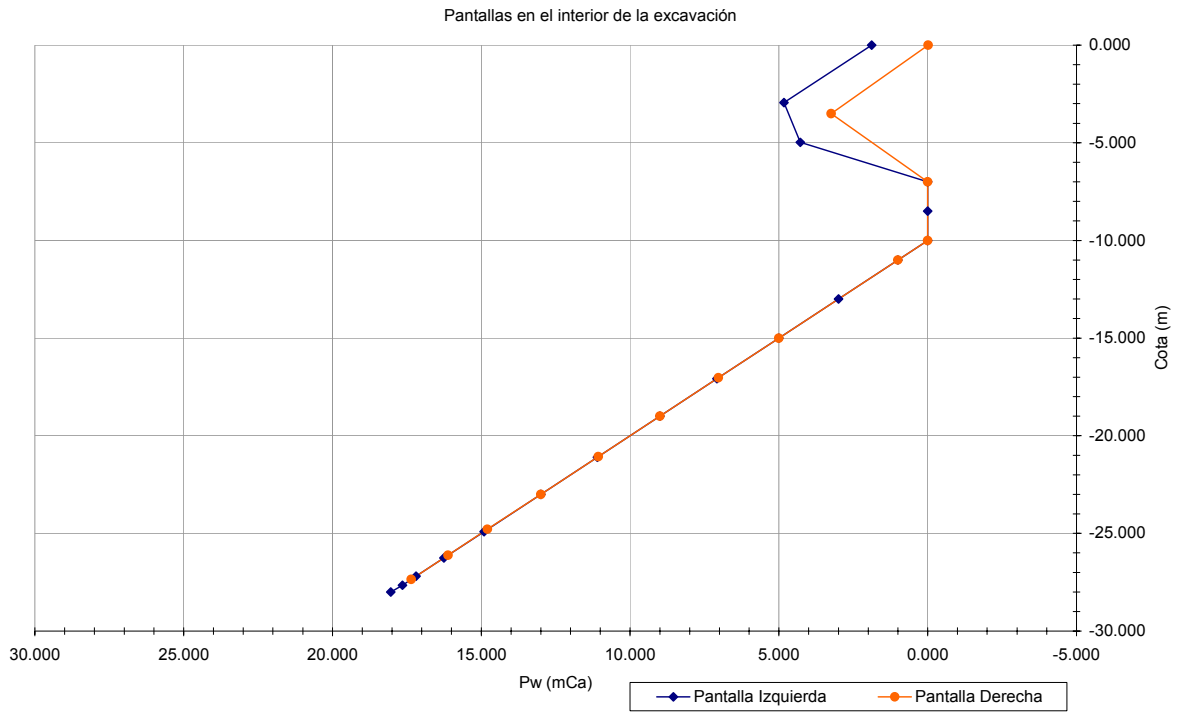
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	0.005	0.005
891	6.500	-3.500	0.005	3.505
846	6.500	-7.000	0.005	7.005
845	6.500	-11.000	-0.052	10.948
886	6.500	-15.000	-0.053	14.947
923	6.500	-19.000	-0.049	18.951
964	6.500	-21.070	-0.048	21.022
977	6.500	-23.000	-0.050	22.950
976	6.500	-25.470	-0.440	25.030
1,007	6.500	-26.770	-0.732	26.038
985	6.500	-27.430	-1.038	26.392
944	6.500	-28.000	-1.759	26.241

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	0.003	0.003
890	5.500	-3.500	-0.013	3.487
847	5.500	-7.000	-0.464	6.536
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-10.000	1.000
885	5.500	-15.000	-10.000	5.000
921	5.500	-17.030	-10.000	7.030
962	5.500	-19.000	-10.000	9.000
963	5.500	-21.070	-9.999	11.071
935	5.500	-23.000	-9.999	13.001
934	5.500	-24.790	-10.000	14.790
933	5.500	-26.120	-10.000	16.120
973	5.500	-27.350	-10.000	17.350

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-10.000	0.510	0.510	0.97	1.90	
754	-5.297	-11.000	-10.000	1.000	1.000	1.90	1.90	8.20E-05
755	-5.297	-13.000	-10.000	3.000	3.000	5.70	1.90	-1.56E-05
756	-5.297	-15.000	-10.000	5.000	5.000	9.50	1.90	-1.05E-05
794	-5.297	-17.080	-10.000	7.080	7.080	13.45	1.90	-2.67E-05
797	-5.297	-19.000	-9.999	9.001	9.000	17.10	1.90	4.38E-04
837	-5.297	-21.100	-9.998	11.102	11.100	21.09	1.90	3.17E-04
804	-5.297	-23.000	-9.999	13.001	13.000	24.70	1.90	-9.03E-05
805	-5.297	-24.950	-9.998	14.952	14.950	28.41	1.90	8.99E-05
851	-5.297	-26.340	-9.995	16.345	16.340	31.05	1.90	2.43E-03
854	-5.297	-27.300	-9.992	17.308	17.300	32.87	1.90	2.81E-03
853	-5.297	-27.690	-9.989	17.701	17.690	33.61	1.90	8.24E-03
810	-5.297	-28.010	-9.909	18.101	18.010	34.22	1.89	2.51E-01
766	-5.354	-28.300	-6.010	22.290	18.300	34.77	1.56	1.34E+01
727	-5.127	-28.640	-2.676	25.964	18.640	35.42	1.36	9.80E+00
695	-5.113	-29.810	0.040	29.850	19.810	37.64	1.26	2.32E+00
612	-5.458	-31.590	0.104	31.694	21.590	41.02	1.29	3.62E-02
614	-5.040	-35.070	0.143	35.213	25.070	47.63	1.35	1.11E-02

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	1.887	1.887
627	-6.500	-2.074	1.887	3.961
668	-6.500	-4.149	1.887	6.036
626	-6.500	-7.000	1.887	8.887
623	-6.500	-9.000	1.494	10.494
665	-6.500	-11.000	1.293	12.293
664	-6.500	-13.000	1.291	14.291
708	-6.500	-15.000	1.287	16.287
707	-6.500	-17.070	0.896	17.966
752	-6.500	-19.000	0.769	19.769
759	-6.500	-21.110	0.767	21.877
721	-6.500	-23.000	0.763	23.763
761	-6.500	-24.540	0.320	24.860
802	-6.500	-25.640	0.078	25.718
770	-6.500	-26.510	-0.127	26.383
731	-6.500	-27.110	-0.318	26.792
730	-6.500	-27.540	-0.533	27.007
686	-6.500	-28.000	-1.023	26.977

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	1.887	1.887
670	-5.500	-2.950	1.885	4.835
714	-5.500	-4.975	-0.692	4.283
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-10.000	1.000
710	-5.500	-13.000	-10.000	3.000
751	-5.500	-15.000	-10.000	5.000
753	-5.500	-17.080	-10.000	7.080
795	-5.500	-19.000	-10.000	9.000
796	-5.500	-21.100	-9.999	11.101
762	-5.500	-23.000	-9.999	13.001
803	-5.500	-24.910	-10.000	14.910
814	-5.500	-26.260	-10.000	16.260
813	-5.500	-27.190	-10.000	17.190
808	-5.500	-27.650	-10.000	17.650
807	-5.500	-28.000	-9.957	18.043

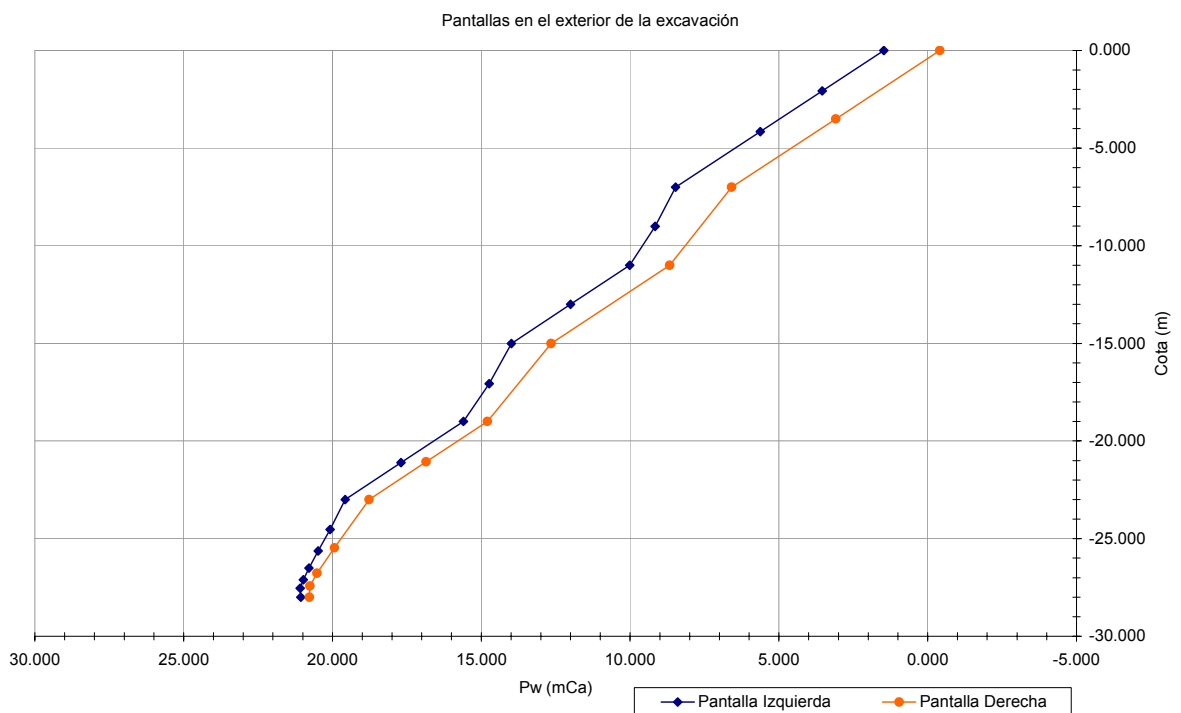
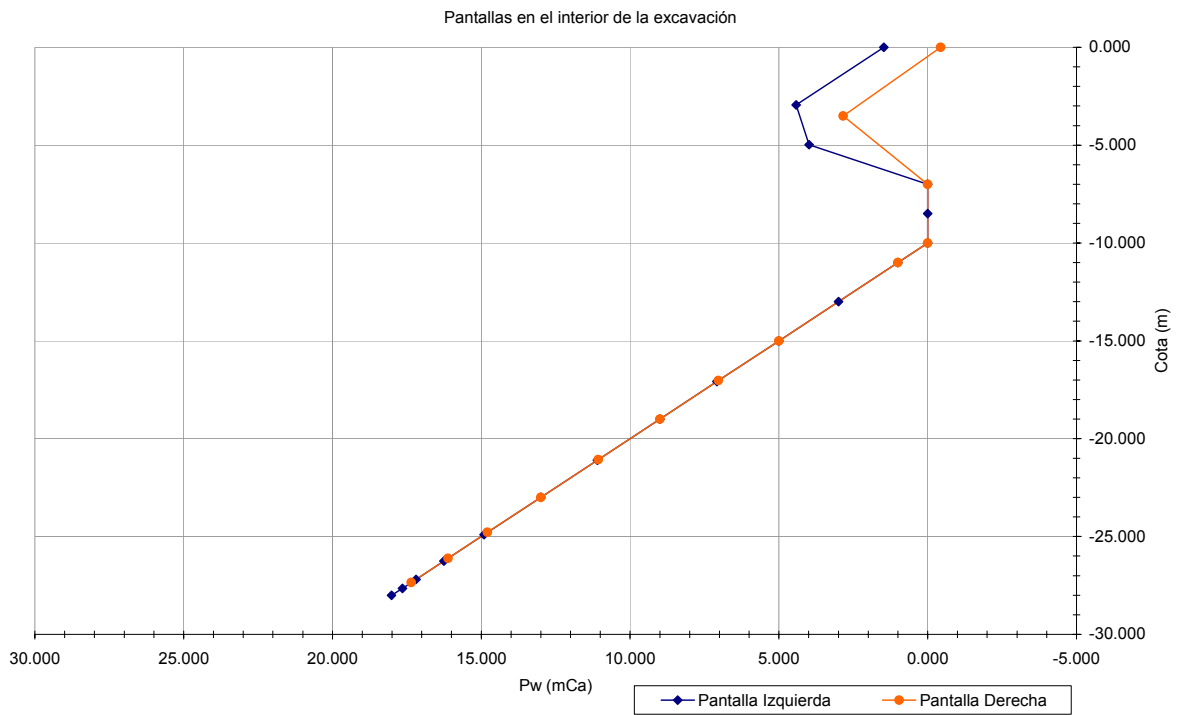
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	0.004	0.004
891	6.500	-3.500	0.004	3.504
846	6.500	-7.000	0.004	7.004
845	6.500	-11.000	-0.053	10.947
886	6.500	-15.000	-0.053	14.947
923	6.500	-19.000	-0.049	18.951
964	6.500	-21.070	-0.048	21.022
977	6.500	-23.000	-0.051	22.949
976	6.500	-25.470	-0.441	25.029
1,007	6.500	-26.770	-0.733	26.037
985	6.500	-27.430	-1.039	26.391
944	6.500	-28.000	-1.760	26.240

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-0.016	-0.016
890	5.500	-3.500	-0.261	3.239
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-10.000	1.000
885	5.500	-15.000	-10.000	5.000
921	5.500	-17.030	-10.000	7.030
962	5.500	-19.000	-10.000	9.000
963	5.500	-21.070	-9.999	11.071
935	5.500	-23.000	-9.999	13.001
934	5.500	-24.790	-10.000	14.790
933	5.500	-26.120	-10.000	16.120
973	5.500	-27.350	-10.000	17.350

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	Gradiente bajo fondo excavación	
							FS	excavación
711	-5.297	-10.510	-10.000	0.510	0.51	0.97	1.90	
754	-5.297	-11.000	-10.000	1.000	1.00	1.90	1.90	8.20E-05
755	-5.297	-13.000	-10.000	3.000	3.00	5.70	1.90	-1.56E-05
756	-5.297	-15.000	-10.000	5.000	5.00	9.50	1.90	-1.05E-05
794	-5.297	-17.080	-10.000	7.080	7.08	13.45	1.90	-2.67E-05
797	-5.297	-19.000	-9.999	9.001	9.00	17.10	1.90	4.37E-04
837	-5.297	-21.100	-9.998	11.102	11.10	21.09	1.90	3.17E-04
804	-5.297	-23.000	-9.999	13.001	13.00	24.70	1.90	-9.03E-05
805	-5.297	-24.950	-9.998	14.952	14.95	28.41	1.90	8.99E-05
851	-5.297	-26.340	-9.995	16.345	16.34	31.05	1.90	2.43E-03
854	-5.297	-27.300	-9.992	17.308	17.30	32.87	1.90	2.81E-03
853	-5.297	-27.690	-9.989	17.701	17.69	33.61	1.90	8.24E-03
810	-5.297	-28.010	-9.909	18.101	18.01	34.22	1.89	2.51E-01
766	-5.354	-28.300	-6.010	22.290	18.30	34.77	1.56	1.34E+01
727	-5.127	-28.640	-2.677	25.963	18.64	35.42	1.36	9.80E+00
695	-5.113	-29.810	0.039	29.849	19.81	37.64	1.26	2.32E+00
612	-5.458	-31.590	0.104	31.694	21.59	41.02	1.29	3.62E-02
614	-5.040	-35.070	0.142	35.212	25.07	47.63	1.35	1.11E-02

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	1.472	1.472
627	-6.500	-2.074	1.472	3.546
668	-6.500	-4.149	1.472	5.621
626	-6.500	-7.000	1.472	8.472
623	-6.500	-9.000	0.160	9.160
665	-6.500	-11.000	-0.985	10.015
664	-6.500	-13.000	-0.996	12.004
708	-6.500	-15.000	-1.009	13.991
707	-6.500	-17.070	-2.333	14.737
752	-6.500	-19.000	-3.400	15.600
759	-6.500	-21.110	-3.412	17.698
721	-6.500	-23.000	-3.424	19.576
761	-6.500	-24.540	-4.462	20.078
802	-6.500	-25.640	-5.162	20.478
770	-6.500	-26.510	-5.719	20.791
731	-6.500	-27.110	-6.127	20.983
730	-6.500	-27.540	-6.457	21.083
686	-6.500	-28.000	-6.942	21.058

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	1.471	1.471
670	-5.500	-2.950	1.469	4.419
714	-5.500	-4.975	-0.986	3.989
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-10.000	1.000
710	-5.500	-13.000	-10.000	3.000
751	-5.500	-15.000	-10.000	5.000
753	-5.500	-17.080	-10.000	7.080
795	-5.500	-19.000	-10.000	9.000
796	-5.500	-21.100	-10.000	11.100
762	-5.500	-23.000	-10.000	13.000
803	-5.500	-24.910	-10.000	14.910
814	-5.500	-26.260	-10.000	16.260
813	-5.500	-27.190	-10.000	17.190
808	-5.500	-27.650	-10.000	17.650
807	-5.500	-28.000	-9.987	18.013

Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-0.411	-0.411
891	6.500	-3.500	-0.411	3.089
846	6.500	-7.000	-0.411	6.589
845	6.500	-11.000	-2.327	8.673
886	6.500	-15.000	-2.346	12.654
923	6.500	-19.000	-4.207	14.793
964	6.500	-21.070	-4.216	16.854
977	6.500	-23.000	-4.226	18.774
976	6.500	-25.470	-5.538	19.932
1,007	6.500	-26.770	-6.251	20.519
985	6.500	-27.430	-6.675	20.755
944	6.500	-28.000	-7.226	20.774

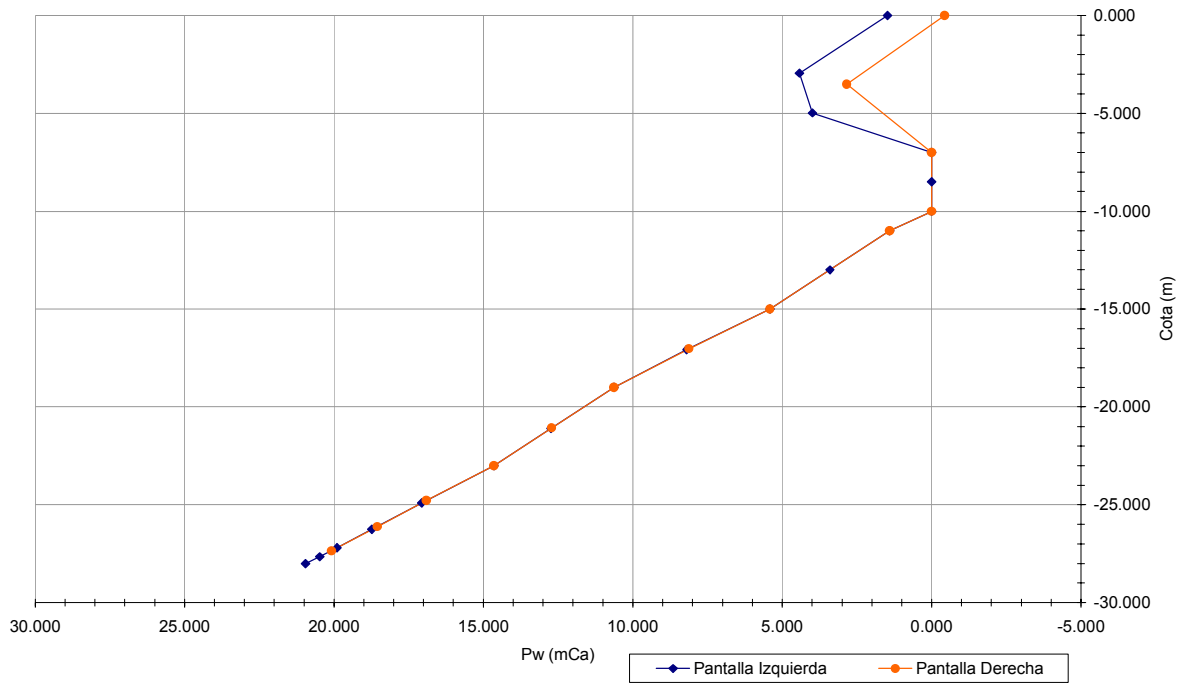
Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-0.430	-0.430
890	5.500	-3.500	-0.660	2.840
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-10.000	1.000
885	5.500	-15.000	-10.000	5.000
921	5.500	-17.030	-10.000	7.030
962	5.500	-19.000	-10.000	9.000
963	5.500	-21.070	-10.000	11.070
935	5.500	-23.000	-10.000	13.000
934	5.500	-24.790	-10.000	14.790
933	5.500	-26.120	-10.000	16.120
973	5.500	-27.350	-10.000	17.350

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

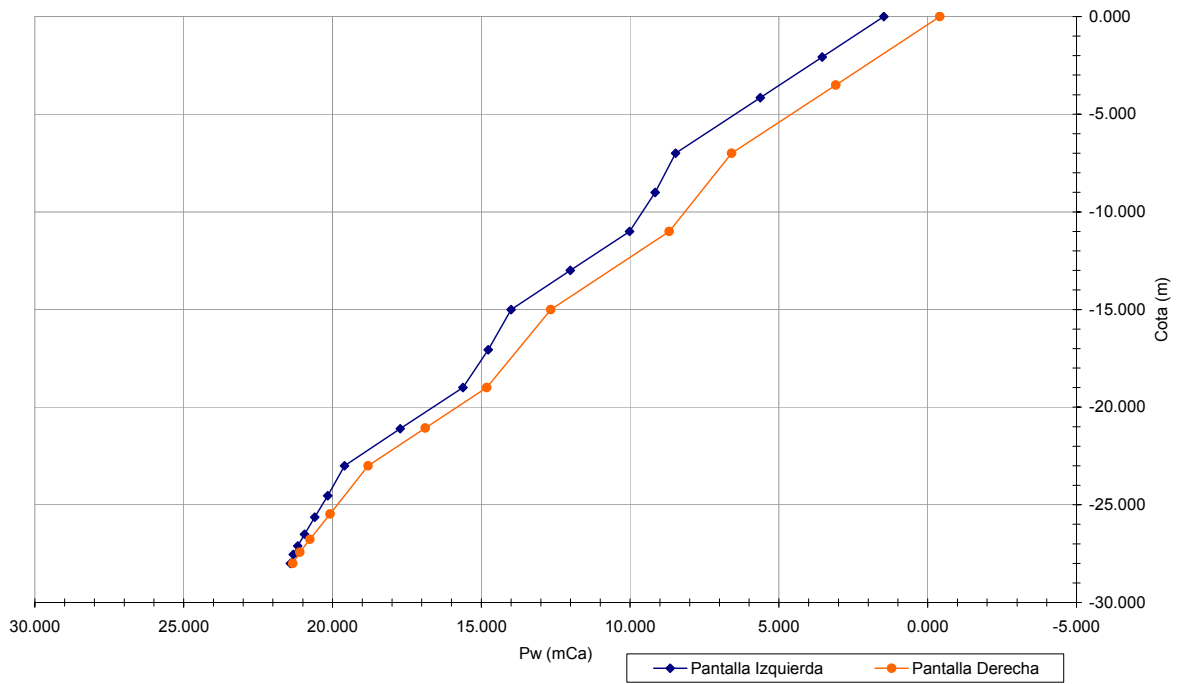
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ³) $\gamma=1.9$ (T/m ³)	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-10.000	0.510	0.510	0.97	1.90	
754	-5.297	-11.000	-10.000	1.000	1.000	1.90	1.90	6.41E-05
755	-5.297	-13.000	-10.000	3.000	3.000	5.70	1.90	-1.27E-05
756	-5.297	-15.000	-10.000	5.000	5.000	9.50	1.90	-8.00E-06
794	-5.297	-17.080	-10.000	7.080	7.080	13.45	1.90	-2.27E-05
797	-5.297	-19.000	-10.000	9.000	9.000	17.10	1.90	1.41E-04
837	-5.297	-21.100	-10.000	11.100	11.100	21.09	1.90	9.73E-05
804	-5.297	-23.000	-10.000	13.000	13.000	24.70	1.90	-3.02E-05
805	-5.297	-24.950	-10.000	14.950	14.950	28.41	1.90	1.81E-05
851	-5.297	-26.340	-9.999	16.341	16.340	31.05	1.90	7.32E-04
854	-5.297	-27.300	-9.998	17.302	17.300	32.87	1.90	8.45E-04
853	-5.297	-27.690	-9.997	17.693	17.690	33.61	1.90	2.49E-03
810	-5.297	-28.010	-9.972	18.038	18.010	34.22	1.90	7.62E-02
766	-5.354	-28.300	-8.786	19.514	18.300	34.77	1.78	4.09E+00
727	-5.127	-28.640	-7.791	20.849	18.640	35.42	1.70	2.93E+00
695	-5.113	-29.810	-6.982	22.828	19.810	37.64	1.65	6.91E-01
612	-5.458	-31.590	-6.965	24.625	21.590	41.02	1.67	9.50E-03
614	-5.040	-35.070	-6.956	28.114	25.070	47.63	1.69	2.49E-03

PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantallas en el interior de la excavación



Pantallas en el exterior de la excavación



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	1.472	1.472
627	-6.500	-2.074	1.472	3.546
668	-6.500	-4.149	1.472	5.621
626	-6.500	-7.000	1.472	8.472
623	-6.500	-9.000	0.164	9.164
665	-6.500	-11.000	-0.976	10.024
664	-6.500	-13.000	-0.987	12.013
708	-6.500	-15.000	-1.000	14.000
707	-6.500	-17.070	-2.305	14.765
752	-6.500	-19.000	-3.378	15.622
759	-6.500	-21.110	-3.390	17.720
721	-6.500	-23.000	-3.402	19.598
761	-6.500	-24.540	-4.378	20.162
802	-6.500	-25.640	-5.045	20.595
770	-6.500	-26.510	-5.569	20.941
731	-6.500	-27.110	-5.940	21.170
730	-6.500	-27.540	-6.221	21.319
686	-6.500	-28.000	-6.583	21.417

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	1.472	1.472
670	-5.500	-2.950	1.470	4.420
714	-5.500	-4.975	-0.986	3.989
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.602	1.398
710	-5.500	-13.000	-9.594	3.406
751	-5.500	-15.000	-9.587	5.413
753	-5.500	-17.080	-8.887	8.193
795	-5.500	-19.000	-8.364	10.636
796	-5.500	-21.100	-8.359	12.741
762	-5.500	-23.000	-8.354	14.646
803	-5.500	-24.910	-7.845	17.065
814	-5.500	-26.260	-7.522	18.738
813	-5.500	-27.190	-7.297	19.893
808	-5.500	-27.650	-7.176	20.474
807	-5.500	-28.000	-7.044	20.956

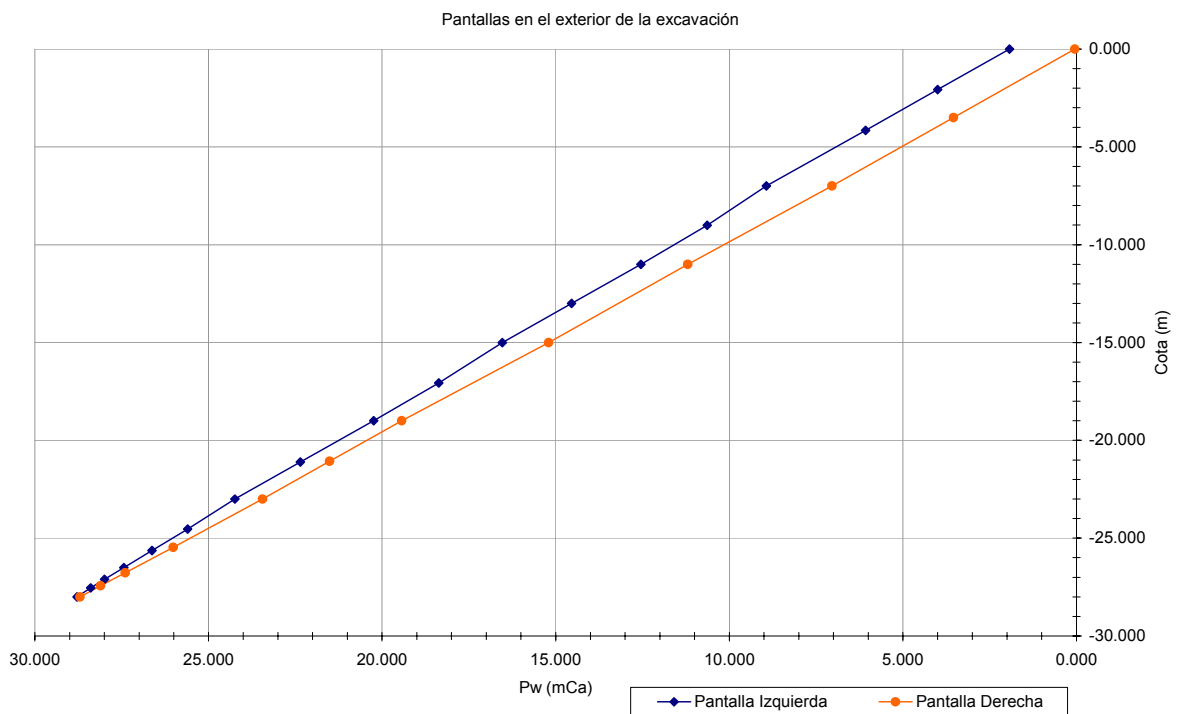
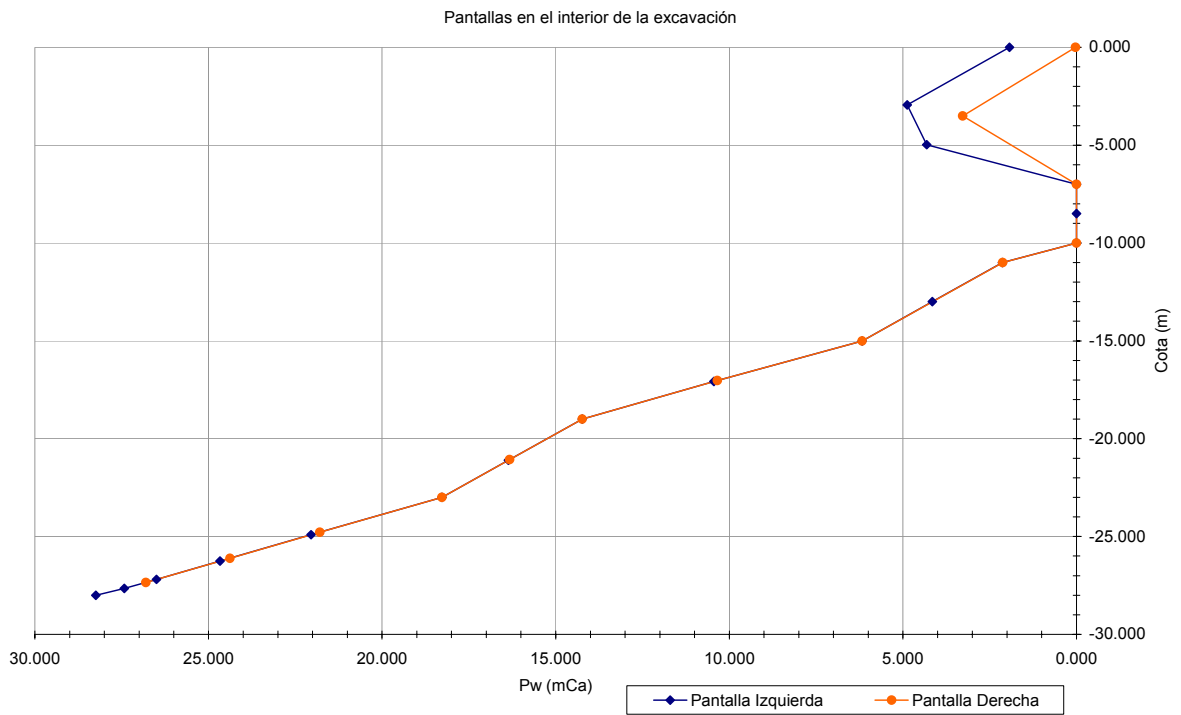
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-0.410	-0.410
891	6.500	-3.500	-0.410	3.090
846	6.500	-7.000	-0.410	6.590
845	6.500	-11.000	-2.316	8.684
886	6.500	-15.000	-2.335	12.665
923	6.500	-19.000	-4.182	14.818
964	6.500	-21.070	-4.191	16.879
977	6.500	-23.000	-4.200	18.800
976	6.500	-25.470	-5.393	20.077
1,007	6.500	-26.770	-6.007	20.763
985	6.500	-27.430	-6.333	21.097
944	6.500	-28.000	-6.665	21.335

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-0.429	-0.429
890	5.500	-3.500	-0.660	2.840
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-9.603	1.397
885	5.500	-15.000	-9.588	5.412
921	5.500	-17.030	-8.910	8.120
962	5.500	-19.000	-8.365	10.635
963	5.500	-21.070	-8.360	12.710
935	5.500	-23.000	-8.354	14.646
934	5.500	-24.790	-7.889	16.901
933	5.500	-26.120	-7.568	18.552
973	5.500	-27.350	-7.267	20.083

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	Gradiente bajo fondo excavación	
							FS	
711	-5.297	-10.510	-9.795	0.715	0.51	0.97	1.36	
754	-5.297	-11.000	-9.602	1.398	1.00	1.90	1.36	3.94E-01
755	-5.297	-13.000	-9.594	3.406	3.00	5.70	1.67	3.72E-03
756	-5.297	-15.000	-9.587	5.413	5.00	9.50	1.75	3.71E-03
794	-5.297	-17.080	-8.900	8.180	7.08	13.45	1.64	3.30E-01
797	-5.297	-19.000	-8.365	10.635	9.00	17.10	1.61	2.79E-01
837	-5.297	-21.100	-8.359	12.741	11.10	21.09	1.66	2.60E-03
804	-5.297	-23.000	-8.354	14.646	13.00	24.70	1.69	2.78E-03
805	-5.297	-24.950	-7.842	17.108	14.95	28.41	1.66	2.63E-01
851	-5.297	-26.340	-7.508	18.832	16.34	31.05	1.65	2.40E-01
854	-5.297	-27.300	-7.274	20.026	17.30	32.87	1.64	2.43E-01
853	-5.297	-27.690	-7.169	20.521	17.69	33.61	1.64	2.69E-01
810	-5.297	-28.010	-7.080	20.930	18.01	34.22	1.63	2.78E-01
766	-5.354	-28.300	-7.018	21.282	18.30	34.77	1.63	2.16E-01
727	-5.127	-28.640	-6.993	21.647	18.64	35.42	1.64	7.23E-02
695	-5.113	-29.810	-6.952	22.858	19.81	37.64	1.65	3.54E-02
612	-5.458	-31.590	-6.952	24.638	21.59	41.02	1.66	-2.26E-04
614	-5.040	-35.070	-6.954	28.116	25.07	47.63	1.69	-4.68E-04

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	1.928	1.928
627	-6.500	-2.074	1.928	4.002
668	-6.500	-4.149	1.928	6.077
626	-6.500	-7.000	1.928	8.928
623	-6.500	-9.000	1.638	10.638
665	-6.500	-11.000	1.542	12.542
664	-6.500	-13.000	1.541	14.541
708	-6.500	-15.000	1.538	16.538
707	-6.500	-17.070	1.295	18.365
752	-6.500	-19.000	1.241	20.241
759	-6.500	-21.110	1.241	22.351
721	-6.500	-23.000	1.239	24.239
761	-6.500	-24.540	1.064	25.604
802	-6.500	-25.640	0.984	26.624
770	-6.500	-26.510	0.927	27.437
731	-6.500	-27.110	0.886	27.996
730	-6.500	-27.540	0.850	28.390
686	-6.500	-28.000	0.789	28.789

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	1.928	1.928
670	-5.500	-2.950	1.926	4.876
714	-5.500	-4.975	-0.662	4.313
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-8.870	2.130
710	-5.500	-13.000	-8.848	4.152
751	-5.500	-15.000	-8.826	6.174
753	-5.500	-17.080	-6.637	10.443
795	-5.500	-19.000	-4.761	14.239
796	-5.500	-21.100	-4.741	16.359
762	-5.500	-23.000	-4.722	18.278
803	-5.500	-24.910	-2.867	22.043
814	-5.500	-26.260	-1.592	24.668
813	-5.500	-27.190	-0.694	26.496
808	-5.500	-27.650	-0.225	27.425
807	-5.500	-28.000	0.244	28.244

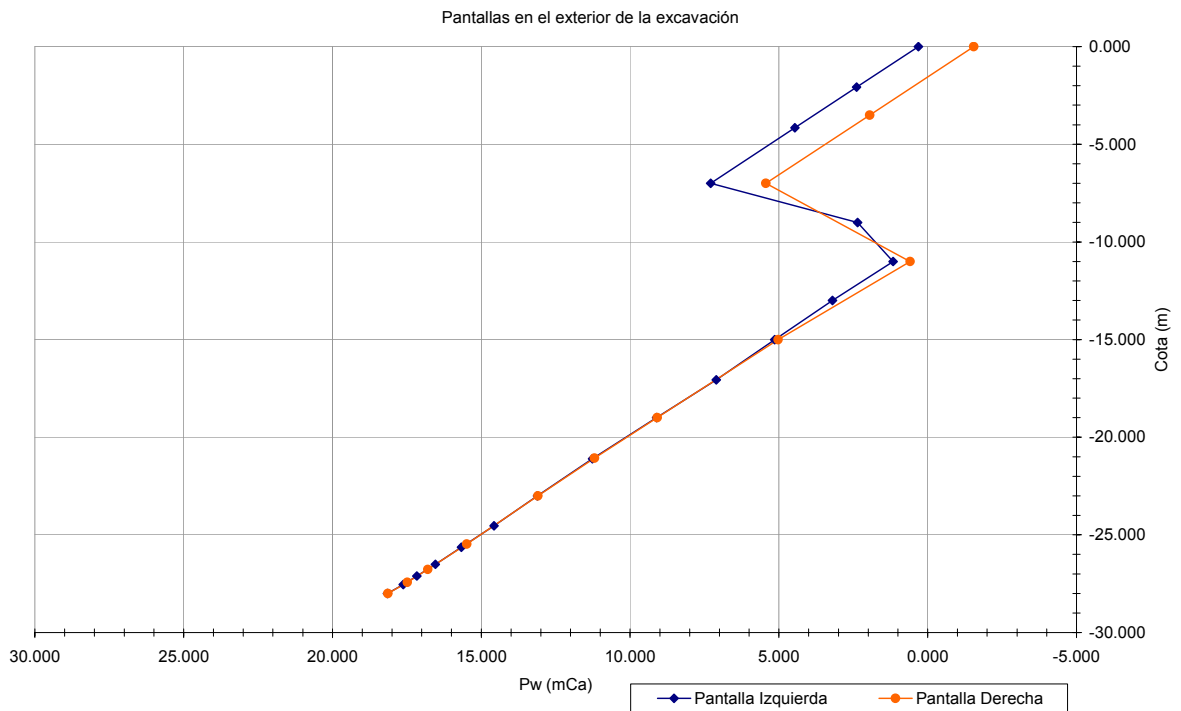
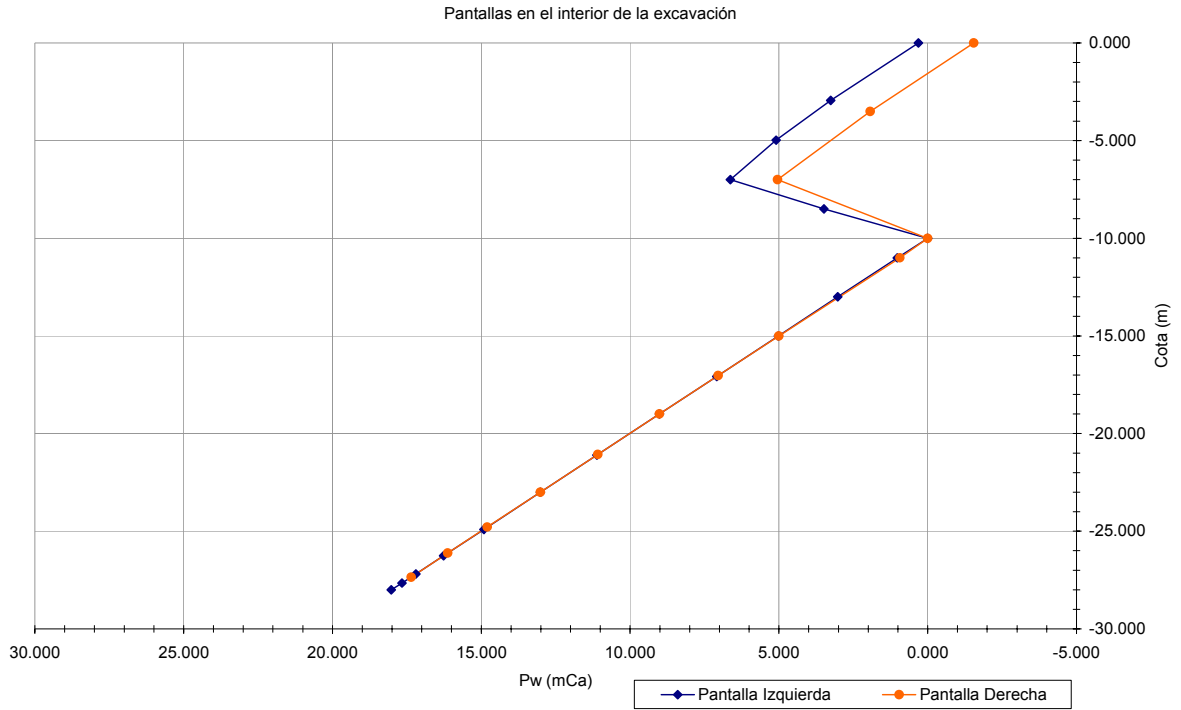
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	0.046	0.046
891	6.500	-3.500	0.046	3.546
846	6.500	-7.000	0.046	7.046
845	6.500	-11.000	0.200	11.200
886	6.500	-15.000	0.202	15.202
923	6.500	-19.000	0.437	19.437
964	6.500	-21.070	0.439	21.509
977	6.500	-23.000	0.440	23.440
976	6.500	-25.470	0.543	26.013
1,007	6.500	-26.770	0.630	27.400
985	6.500	-27.430	0.674	28.104
944	6.500	-28.000	0.700	28.700

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	0.025	0.025
890	5.500	-3.500	-0.221	3.279
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-8.871	2.129
885	5.500	-15.000	-8.827	6.173
921	5.500	-17.030	-6.691	10.339
962	5.500	-19.000	-4.762	14.238
963	5.500	-21.070	-4.742	16.328
935	5.500	-23.000	-4.723	18.277
934	5.500	-24.790	-2.999	21.791
933	5.500	-26.120	-1.742	24.378
973	5.500	-27.350	-0.548	26.802

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) γ=1.9 (T/m ³)	Gradiente bajo fondo excavación	
							FS	
711	-5.297	-10.510	-9.418	1.092	0.510	0.97	0.89	
754	-5.297	-11.000	-8.870	2.130	1.000	1.90	0.89	1.12E+00
755	-5.297	-13.000	-8.848	4.152	3.000	5.70	1.37	1.10E-02
756	-5.297	-15.000	-8.827	6.173	5.000	9.50	1.54	1.10E-02
794	-5.297	-17.080	-6.652	10.428	7.080	13.45	1.29	1.05E+00
797	-5.297	-19.000	-4.761	14.239	9.000	17.10	1.20	9.85E-01
837	-5.297	-21.100	-4.741	16.359	11.100	21.09	1.29	9.64E-03
804	-5.297	-23.000	-4.723	18.277	13.000	24.70	1.35	9.84E-03
805	-5.297	-24.950	-2.839	22.111	14.950	28.41	1.28	9.66E-01
851	-5.297	-26.340	-1.524	24.816	16.340	31.05	1.25	9.46E-01
854	-5.297	-27.300	-0.597	26.703	17.300	32.87	1.23	9.66E-01
853	-5.297	-27.690	-0.190	27.500	17.690	33.61	1.22	1.04E+00
810	-5.297	-28.010	0.147	28.157	18.010	34.22	1.22	1.05E+00
766	-5.354	-28.300	0.393	28.693	18.300	34.77	1.21	8.48E-01
727	-5.127	-28.640	0.579	29.219	18.640	35.42	1.21	5.47E-01
695	-5.113	-29.810	0.820	30.630	19.810	37.64	1.23	2.07E-01
612	-5.458	-31.590	0.830	32.420	21.590	41.02	1.27	5.35E-03
614	-5.040	-35.070	0.836	35.906	25.070	47.63	1.33	1.77E-03

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	0.315	0.315
627	-6.500	-2.074	0.314	2.388
668	-6.500	-4.149	0.310	4.459
626	-6.500	-7.000	0.291	7.291
623	-6.500	-9.000	-6.642	2.358
665	-6.500	-11.000	-9.835	1.165
664	-6.500	-13.000	-9.800	3.200
708	-6.500	-15.000	-9.856	5.144
707	-6.500	-17.070	-9.968	7.102
752	-6.500	-19.000	-9.891	9.109
759	-6.500	-21.110	-9.849	11.261
721	-6.500	-23.000	-9.888	13.112
761	-6.500	-24.540	-9.967	14.573
802	-6.500	-25.640	-9.975	15.665
770	-6.500	-26.510	-9.964	16.546
731	-6.500	-27.110	-9.944	17.166
730	-6.500	-27.540	-9.917	17.623
686	-6.500	-28.000	-9.844	18.156

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	0.315	0.315
670	-5.500	-2.950	0.312	3.262
714	-5.500	-4.975	0.114	5.089
669	-5.500	-7.000	-0.366	6.634
667	-5.500	-8.500	-5.009	3.491
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.976	1.024
710	-5.500	-13.000	-9.976	3.024
751	-5.500	-15.000	-9.980	5.020
753	-5.500	-17.080	-9.994	7.086
795	-5.500	-19.000	-9.985	9.015
796	-5.500	-21.100	-9.981	11.119
762	-5.500	-23.000	-9.985	13.015
803	-5.500	-24.910	-9.993	14.917
814	-5.500	-26.260	-9.994	16.266
813	-5.500	-27.190	-9.991	17.199
808	-5.500	-27.650	-9.988	17.662
807	-5.500	-28.000	-9.974	18.026

Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-1.546	-1.546
891	6.500	-3.500	-1.550	1.950
846	6.500	-7.000	-1.565	5.435
845	6.500	-11.000	-10.407	0.593
886	6.500	-15.000	-9.977	5.023
923	6.500	-19.000	-9.914	9.086
964	6.500	-21.070	-9.870	11.200
977	6.500	-23.000	-9.902	13.098
976	6.500	-25.470	-9.984	15.486
1,007	6.500	-26.770	-9.971	16.799
985	6.500	-27.430	-9.942	17.488
944	6.500	-28.000	-9.861	18.139

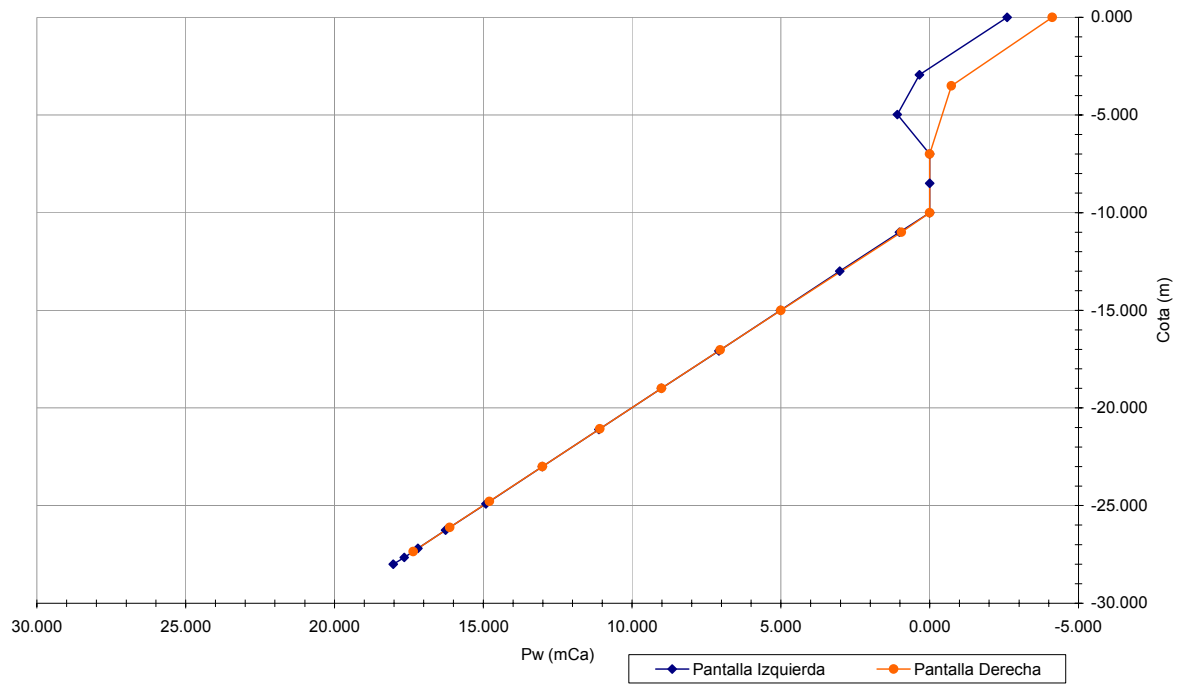
Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-1.548	-1.548
890	5.500	-3.500	-1.565	1.935
847	5.500	-7.000	-1.960	5.040
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-10.067	0.933
885	5.500	-15.000	-9.998	5.002
921	5.500	-17.030	-9.990	7.040
962	5.500	-19.000	-9.988	9.012
963	5.500	-21.070	-9.984	11.086
935	5.500	-23.000	-9.986	13.014
934	5.500	-24.790	-9.994	14.796
933	5.500	-26.120	-9.997	16.123
973	5.500	-27.350	-9.996	17.354

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

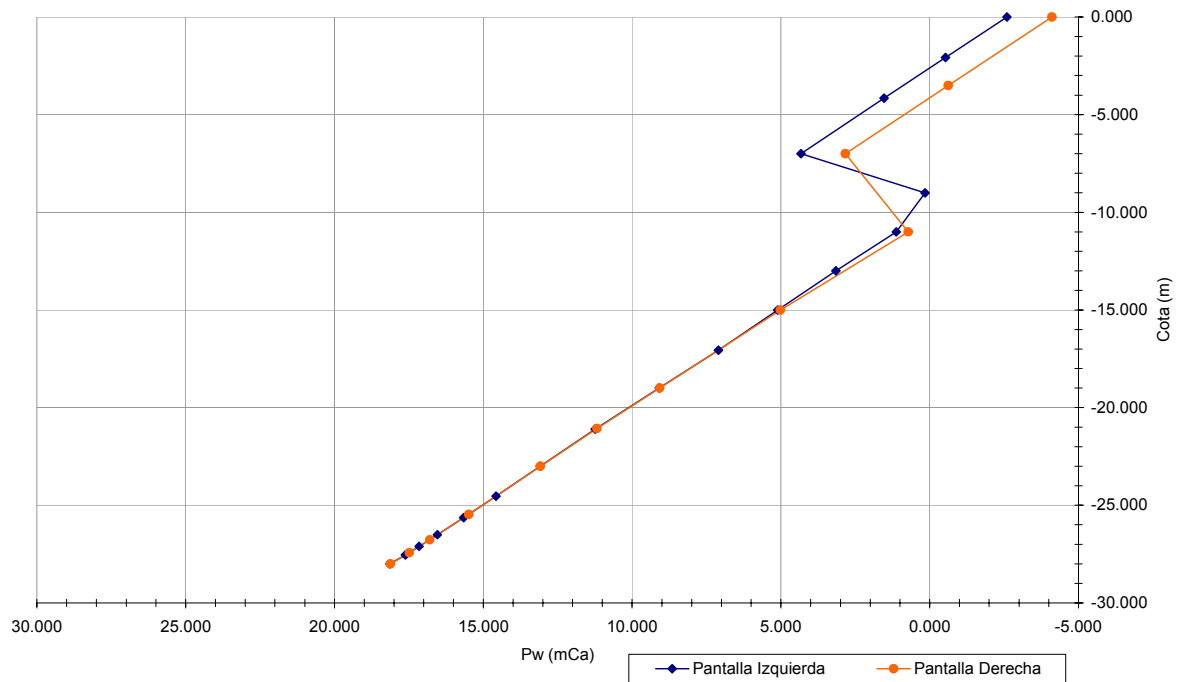
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) γ=1.9 (T/m ³)	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-9.991	0.519	0.51	0.97	1.87	
754	-5.297	-11.000	-9.986	1.014	1.00	1.90	1.87	9.39E-03
755	-5.297	-13.000	-9.988	3.012	3.00	5.70	1.89	-7.92E-04
756	-5.297	-15.000	-9.993	5.007	5.00	9.50	1.90	-2.53E-03
794	-5.297	-17.080	-10.000	7.080	7.08	13.45	1.90	-3.36E-03
797	-5.297	-19.000	-9.994	9.006	9.00	17.10	1.90	3.11E-03
837	-5.297	-21.100	-9.990	11.110	11.10	21.09	1.90	1.97E-03
804	-5.297	-23.000	-9.994	13.006	13.00	24.70	1.90	-2.17E-03
805	-5.297	-24.950	-9.999	14.951	14.95	28.41	1.90	-2.51E-03
851	-5.297	-26.340	-9.996	16.344	16.34	31.05	1.90	1.78E-03
854	-5.297	-27.300	-9.994	17.306	17.30	32.87	1.90	2.06E-03
853	-5.297	-27.690	-9.992	17.698	17.69	33.61	1.90	5.75E-03
810	-5.297	-28.010	-9.940	18.070	18.01	34.22	1.89	1.64E-01
766	-5.354	-28.300	-7.522	20.778	18.30	34.77	1.67	8.34E+00
727	-5.127	-28.640	-4.867	23.773	18.64	35.42	1.49	7.81E+00
695	-5.113	-29.810	-2.653	27.157	19.81	37.64	1.39	1.89E+00
612	-5.458	-31.590	-2.582	29.008	21.59	41.02	1.41	3.98E-02
614	-5.040	-35.070	-2.533	32.537	25.07	47.63	1.46	1.41E-02

PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantallas en el interior de la excavación



Pantallas en el exterior de la excavación



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	-2.598	-2.598
627	-6.500	-2.074	-2.602	-0.528
668	-6.500	-4.149	-2.617	1.532
626	-6.500	-7.000	-2.679	4.321
623	-6.500	-9.000	-8.841	0.159
665	-6.500	-11.000	-9.879	1.121
664	-6.500	-13.000	-9.850	3.150
708	-6.500	-15.000	-9.891	5.109
707	-6.500	-17.070	-9.975	7.095
752	-6.500	-19.000	-9.909	9.091
759	-6.500	-21.110	-9.874	11.236
721	-6.500	-23.000	-9.907	13.093
761	-6.500	-24.540	-9.972	14.568
802	-6.500	-25.640	-9.978	15.662
770	-6.500	-26.510	-9.969	16.541
731	-6.500	-27.110	-9.951	17.159
730	-6.500	-27.540	-9.927	17.613
686	-6.500	-28.000	-9.863	18.137

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	-2.599	-2.599
670	-5.500	-2.950	-2.609	0.341
714	-5.500	-4.975	-3.888	1.087
669	-5.500	-7.000	-6.999	0.001
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.983	1.017
710	-5.500	-13.000	-9.982	3.018
751	-5.500	-15.000	-9.985	5.015
753	-5.500	-17.080	-9.995	7.085
795	-5.500	-19.000	-9.988	9.012
796	-5.500	-21.100	-9.984	11.116
762	-5.500	-23.000	-9.988	13.012
803	-5.500	-24.910	-9.994	14.916
814	-5.500	-26.260	-9.995	16.265
813	-5.500	-27.190	-9.992	17.198
808	-5.500	-27.650	-9.989	17.661
807	-5.500	-28.000	-9.977	18.023

Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-4.108	-4.108
891	6.500	-3.500	-4.120	-0.620
846	6.500	-7.000	-4.166	2.834
845	6.500	-11.000	-10.275	0.725
886	6.500	-15.000	-9.978	5.022
923	6.500	-19.000	-9.929	9.071
964	6.500	-21.070	-9.892	11.178
977	6.500	-23.000	-9.918	13.082
976	6.500	-25.470	-9.986	15.484
1,007	6.500	-26.770	-9.974	16.796
985	6.500	-27.430	-9.949	17.481
944	6.500	-28.000	-9.877	18.123

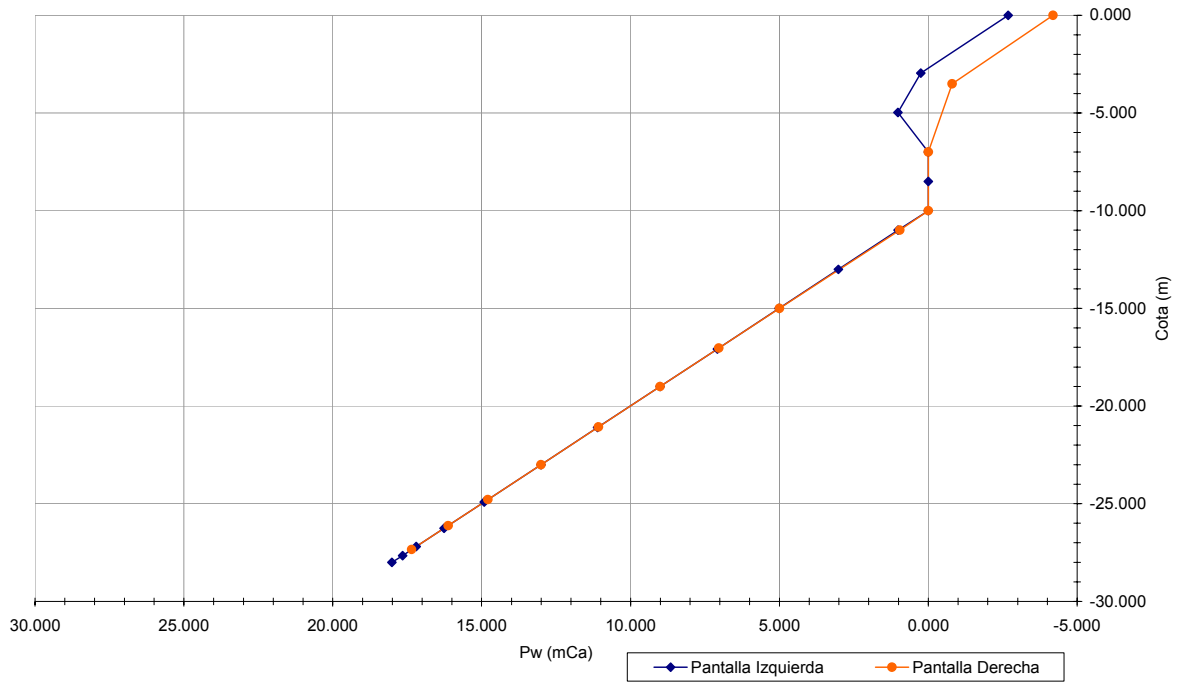
Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-4.117	-4.117
890	5.500	-3.500	-4.228	-0.728
847	5.500	-7.000	-6.999	0.001
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-10.045	0.955
885	5.500	-15.000	-9.998	5.002
921	5.500	-17.030	-9.992	7.038
962	5.500	-19.000	-9.990	9.010
963	5.500	-21.070	-9.986	11.084
935	5.500	-23.000	-9.988	13.012
934	5.500	-24.790	-9.995	14.795
933	5.500	-26.120	-9.997	16.123
973	5.500	-27.350	-9.996	17.354

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

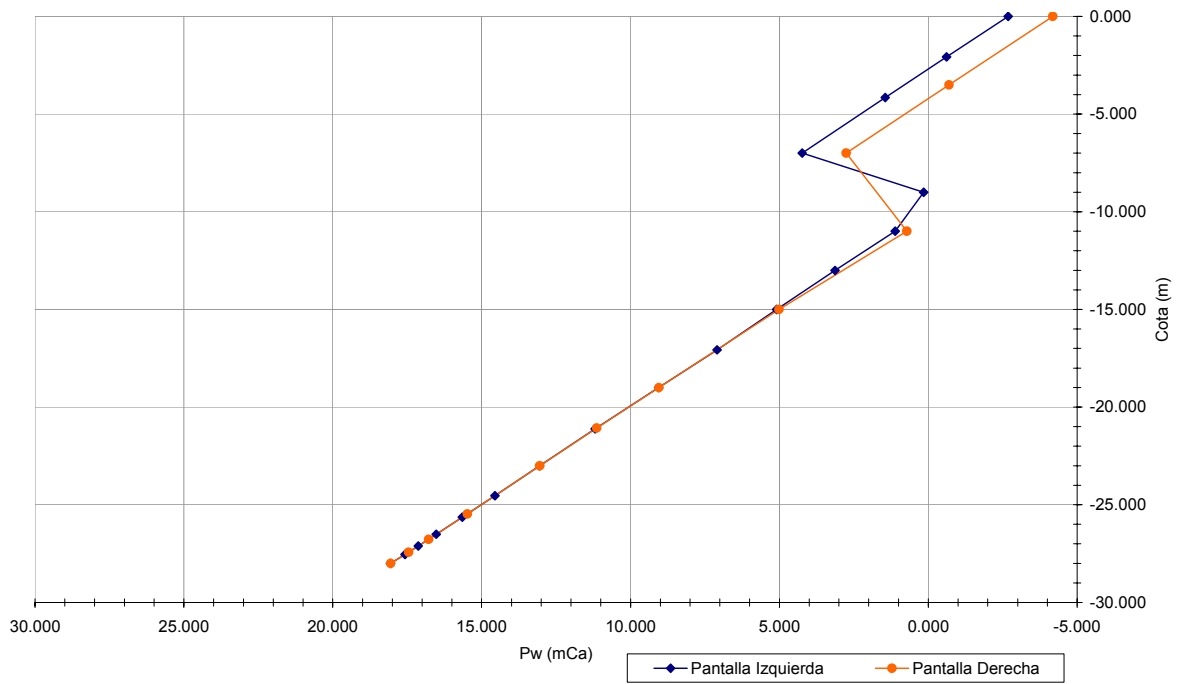
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) γ=1.9 (T/m ³)	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-9.993	0.517	0.51	0.97	1.88	
754	-5.297	-11.000	-9.990	1.010	1.00	1.90	1.88	7.03E-03
755	-5.297	-13.000	-9.991	3.009	3.00	5.70	1.89	-4.89E-04
756	-5.297	-15.000	-9.995	5.005	5.00	9.50	1.90	-1.88E-03
794	-5.297	-17.080	-10.000	7.080	7.08	13.45	1.90	-2.53E-03
797	-5.297	-19.000	-9.995	9.005	9.00	17.10	1.90	2.60E-03
837	-5.297	-21.100	-9.991	11.109	11.10	21.09	1.90	1.65E-03
804	-5.297	-23.000	-9.995	13.005	13.00	24.70	1.90	-1.81E-03
805	-5.297	-24.950	-9.999	14.951	14.95	28.41	1.90	-2.09E-03
851	-5.297	-26.340	-9.997	16.343	16.34	31.05	1.90	1.57E-03
854	-5.297	-27.300	-9.995	17.305	17.30	32.87	1.90	1.81E-03
853	-5.297	-27.690	-9.993	17.697	17.69	33.61	1.90	5.06E-03
810	-5.297	-28.010	-9.947	18.063	18.01	34.22	1.89	1.44E-01
766	-5.354	-28.300	-7.820	20.480	18.30	34.77	1.70	7.34E+00
727	-5.127	-28.640	-5.484	23.156	18.64	35.42	1.53	6.87E+00
695	-5.113	-29.810	-3.536	26.274	19.81	37.64	1.43	1.66E+00
612	-5.458	-31.590	-3.474	28.116	21.59	41.02	1.46	3.50E-02
614	-5.040	-35.070	-3.430	31.640	25.07	47.63	1.51	1.24E-02

PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantallas en el interior de la excavación



Pantallas en el exterior de la excavación



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	-2.686	-2.686
627	-6.500	-2.074	-2.691	-0.617
668	-6.500	-4.149	-2.705	1.444
626	-6.500	-7.000	-2.766	4.234
623	-6.500	-9.000	-8.844	0.156
665	-6.500	-11.000	-9.890	1.110
664	-6.500	-13.000	-9.865	3.135
708	-6.500	-15.000	-9.902	5.098
707	-6.500	-17.070	-9.980	7.090
752	-6.500	-19.000	-9.941	9.059
759	-6.500	-21.110	-9.918	11.192
721	-6.500	-23.000	-9.940	13.060
761	-6.500	-24.540	-9.983	14.557
802	-6.500	-25.640	-9.989	15.651
770	-6.500	-26.510	-9.985	16.525
731	-6.500	-27.110	-9.977	17.133
730	-6.500	-27.540	-9.966	17.574
686	-6.500	-28.000	-9.937	18.063

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	-2.687	-2.687
670	-5.500	-2.950	-2.697	0.253
714	-5.500	-4.975	-3.951	1.024
669	-5.500	-7.000	-6.999	0.001
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.984	1.016
710	-5.500	-13.000	-9.983	3.017
751	-5.500	-15.000	-9.987	5.013
753	-5.500	-17.080	-9.996	7.084
795	-5.500	-19.000	-9.992	9.008
796	-5.500	-21.100	-9.990	11.110
762	-5.500	-23.000	-9.992	13.008
803	-5.500	-24.910	-9.996	14.914
814	-5.500	-26.260	-9.997	16.263
813	-5.500	-27.190	-9.996	17.194
808	-5.500	-27.650	-9.995	17.655
807	-5.500	-28.000	-9.989	18.011

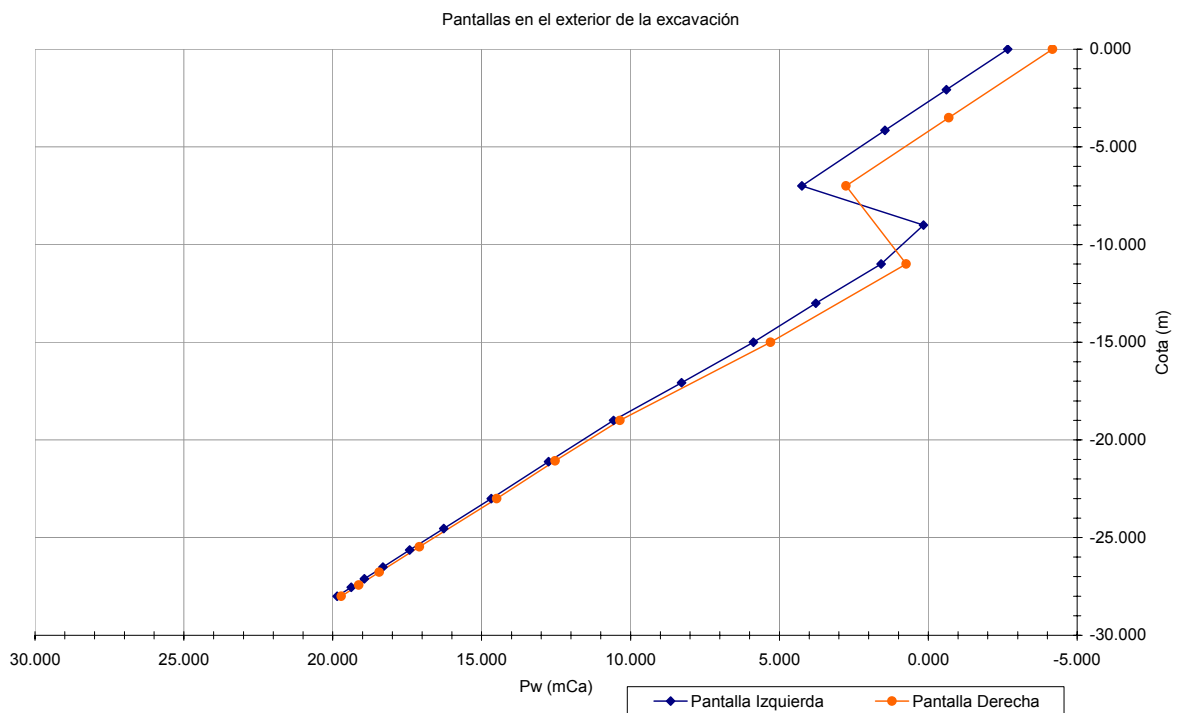
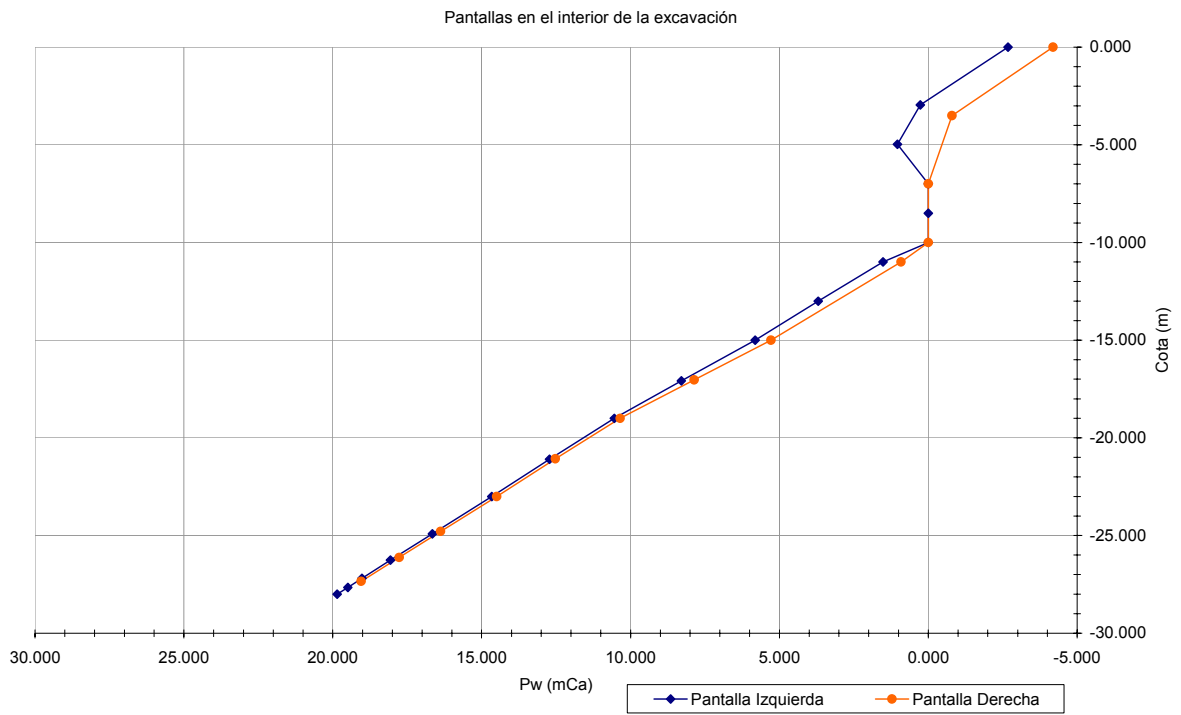
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-4.183	-4.183
891	6.500	-3.500	-4.195	-0.695
846	6.500	-7.000	-4.240	2.760
845	6.500	-11.000	-10.280	0.720
886	6.500	-15.000	-9.985	5.015
923	6.500	-19.000	-9.956	9.044
964	6.500	-21.070	-9.933	11.137
977	6.500	-23.000	-9.950	13.050
976	6.500	-25.470	-9.993	15.477
1,007	6.500	-26.770	-9.988	16.782
985	6.500	-27.430	-9.976	17.454
944	6.500	-28.000	-9.944	18.056

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-4.192	-4.192
890	5.500	-3.500	-4.300	-0.800
847	5.500	-7.000	-6.999	0.001
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-10.046	0.954
885	5.500	-15.000	-9.999	5.001
921	5.500	-17.030	-9.995	7.035
962	5.500	-19.000	-9.994	9.006
963	5.500	-21.070	-9.992	11.078
935	5.500	-23.000	-9.993	13.007
934	5.500	-24.790	-9.997	14.793
933	5.500	-26.120	-9.999	16.121
973	5.500	-27.350	-9.998	17.352

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-9.994	0.516	0.51	0.97	1.88	
754	-5.297	-11.000	-9.991	1.009	1.00	1.90	1.88	6.36E-03
755	-5.297	-13.000	-9.992	3.008	3.00	5.70	1.89	-4.56E-04
756	-5.297	-15.000	-9.995	5.005	5.00	9.50	1.90	-1.70E-03
794	-5.297	-17.080	-10.000	7.080	7.08	13.45	1.90	-2.28E-03
797	-5.297	-19.000	-9.997	9.003	9.00	17.10	1.90	1.65E-03
837	-5.297	-21.100	-9.995	11.105	11.10	21.09	1.90	1.02E-03
804	-5.297	-23.000	-9.997	13.003	13.00	24.70	1.90	-1.18E-03
805	-5.297	-24.950	-10.000	14.950	14.95	28.41	1.90	-1.36E-03
851	-5.297	-26.340	-9.999	16.341	16.34	31.05	1.90	7.15E-04
854	-5.297	-27.300	-9.998	17.302	17.30	32.87	1.90	8.31E-04
853	-5.297	-27.690	-9.997	17.693	17.69	33.61	1.90	2.32E-03
810	-5.297	-28.010	-9.976	18.034	18.01	34.22	1.90	6.62E-02
766	-5.354	-28.300	-8.999	19.301	18.30	34.77	1.80	3.37E+00
727	-5.127	-28.640	-7.927	20.713	18.64	35.42	1.71	3.15E+00
695	-5.113	-29.810	-7.034	22.776	19.81	37.64	1.65	7.64E-01
612	-5.458	-31.590	-7.005	24.585	21.59	41.02	1.67	1.60E-02
614	-5.040	-35.070	-6.985	28.085	25.07	47.63	1.70	5.68E-03

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	-2.672	-2.672
627	-6.500	-2.074	-2.677	-0.603
668	-6.500	-4.149	-2.691	1.458
626	-6.500	-7.000	-2.753	4.247
623	-6.500	-9.000	-8.841	0.159
665	-6.500	-11.000	-9.414	1.586
664	-6.500	-13.000	-9.219	3.781
708	-6.500	-15.000	-9.124	5.876
707	-6.500	-17.070	-8.782	8.288
752	-6.500	-19.000	-8.433	10.567
759	-6.500	-21.110	-8.353	12.757
721	-6.500	-23.000	-8.324	14.676
761	-6.500	-24.540	-8.268	16.272
802	-6.500	-25.640	-8.224	17.416
770	-6.500	-26.510	-8.192	18.318
731	-6.500	-27.110	-8.171	18.939
730	-6.500	-27.540	-8.158	19.382
686	-6.500	-28.000	-8.143	19.857

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	-2.673	-2.673
670	-5.500	-2.950	-2.683	0.267
714	-5.500	-4.975	-3.941	1.034
669	-5.500	-7.000	-6.999	0.001
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.482	1.518
710	-5.500	-13.000	-9.303	3.697
751	-5.500	-15.000	-9.180	5.820
753	-5.500	-17.080	-8.785	8.295
795	-5.500	-19.000	-8.452	10.548
796	-5.500	-21.100	-8.383	12.717
762	-5.500	-23.000	-8.344	14.656
803	-5.500	-24.910	-8.254	16.656
814	-5.500	-26.260	-8.201	18.059
813	-5.500	-27.190	-8.169	19.021
808	-5.500	-27.650	-8.155	19.495
807	-5.500	-28.000	-8.145	19.855

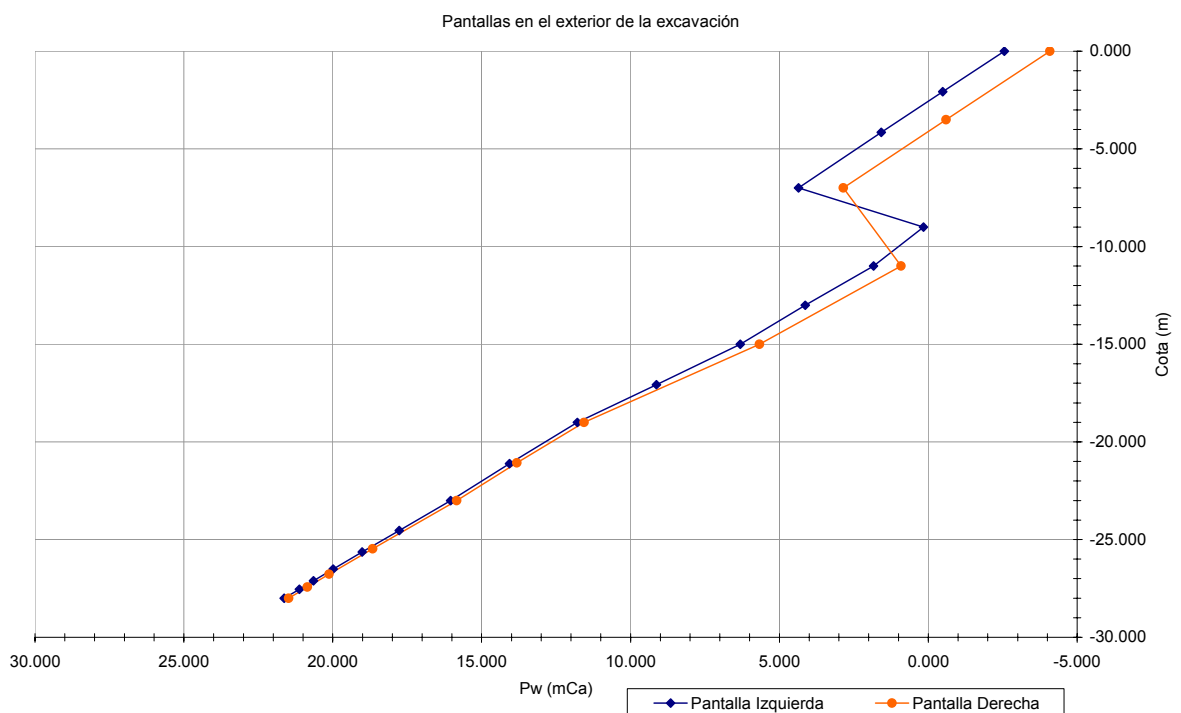
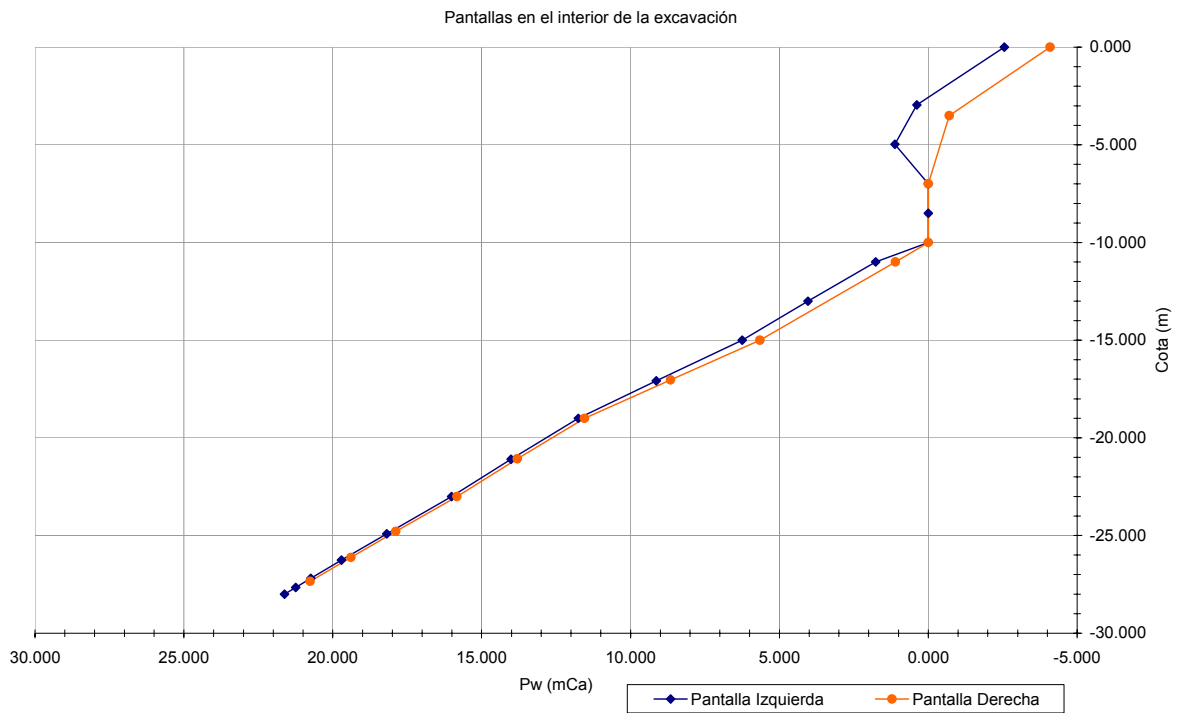
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-4.178	-4.178
891	6.500	-3.500	-4.189	-0.689
846	6.500	-7.000	-4.235	2.765
845	6.500	-11.000	-10.254	0.746
886	6.500	-15.000	-9.703	5.297
923	6.500	-19.000	-8.643	10.357
964	6.500	-21.070	-8.539	12.531
977	6.500	-23.000	-8.500	14.500
976	6.500	-25.470	-8.383	17.087
1,007	6.500	-26.770	-8.327	18.443
985	6.500	-27.430	-8.303	19.127
944	6.500	-28.000	-8.282	19.718

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-4.187	-4.187
890	5.500	-3.500	-4.295	-0.795
847	5.500	-7.000	-6.999	0.001
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-10.084	0.916
885	5.500	-15.000	-9.714	5.286
921	5.500	-17.030	-9.166	7.864
962	5.500	-19.000	-8.651	10.349
963	5.500	-21.070	-8.549	12.521
935	5.500	-23.000	-8.507	14.493
934	5.500	-24.790	-8.416	16.374
933	5.500	-26.120	-8.354	17.766
973	5.500	-27.350	-8.305	19.045

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	Gradiente bajo fondo	
							FS	excavación
711	-5.297	-10.510	-9.728	0.782	0.51	0.97	1.24	
754	-5.297	-11.000	-9.461	1.539	1.00	1.90	1.23	5.45E-01
755	-5.297	-13.000	-9.319	3.681	3.00	5.70	1.55	7.12E-02
756	-5.297	-15.000	-9.215	5.785	5.00	9.50	1.64	5.20E-02
794	-5.297	-17.080	-8.797	8.283	7.08	13.45	1.62	2.01E-01
797	-5.297	-19.000	-8.447	10.553	9.00	17.10	1.62	1.82E-01
837	-5.297	-21.100	-8.388	12.712	11.10	21.09	1.66	2.79E-02
804	-5.297	-23.000	-8.354	14.646	13.00	24.70	1.69	1.80E-02
805	-5.297	-24.950	-8.237	16.713	14.95	28.41	1.70	5.97E-02
851	-5.297	-26.340	-8.154	18.186	16.34	31.05	1.71	5.98E-02
854	-5.297	-27.300	-8.084	19.216	17.30	32.87	1.71	7.35E-02
853	-5.297	-27.690	-8.014	19.676	17.69	33.61	1.71	1.79E-01
810	-5.297	-28.010	-7.901	20.109	18.01	34.22	1.70	3.54E-01
766	-5.354	-28.300	-7.673	20.627	18.30	34.77	1.69	7.85E-01
727	-5.127	-28.640	-7.308	21.332	18.64	35.42	1.66	1.07E+00
695	-5.113	-29.810	-6.998	22.812	19.81	37.64	1.65	2.65E-01
612	-5.458	-31.590	-6.987	24.603	21.59	41.02	1.67	6.10E-03
614	-5.040	-35.070	-6.980	28.090	25.07	47.63	1.70	2.21E-03

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	-2.556	-2.556
627	-6.500	-2.074	-2.560	-0.486
668	-6.500	-4.149	-2.575	1.574
626	-6.500	-7.000	-2.638	4.362
623	-6.500	-9.000	-8.835	0.165
665	-6.500	-11.000	-9.159	1.841
664	-6.500	-13.000	-8.867	4.133
708	-6.500	-15.000	-8.683	6.317
707	-6.500	-17.070	-7.941	9.129
752	-6.500	-19.000	-7.215	11.785
759	-6.500	-21.110	-7.045	14.065
721	-6.500	-23.000	-6.961	16.039
761	-6.500	-24.540	-6.768	17.772
802	-6.500	-25.640	-6.627	19.013
770	-6.500	-26.510	-6.524	19.986
731	-6.500	-27.110	-6.459	20.651
730	-6.500	-27.540	-6.417	21.123
686	-6.500	-28.000	-6.370	21.630

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	-2.557	-2.557
670	-5.500	-2.950	-2.567	0.383
714	-5.500	-4.975	-3.858	1.117
669	-5.500	-7.000	-6.999	0.001
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.236	1.764
710	-5.500	-13.000	-8.961	4.039
751	-5.500	-15.000	-8.748	6.252
753	-5.500	-17.080	-7.944	9.136
795	-5.500	-19.000	-7.240	11.760
796	-5.500	-21.100	-7.086	14.014
762	-5.500	-23.000	-6.989	16.011
803	-5.500	-24.910	-6.720	18.190
814	-5.500	-26.260	-6.552	19.708
813	-5.500	-27.190	-6.450	20.740
808	-5.500	-27.650	-6.406	21.244
807	-5.500	-28.000	-6.375	21.625

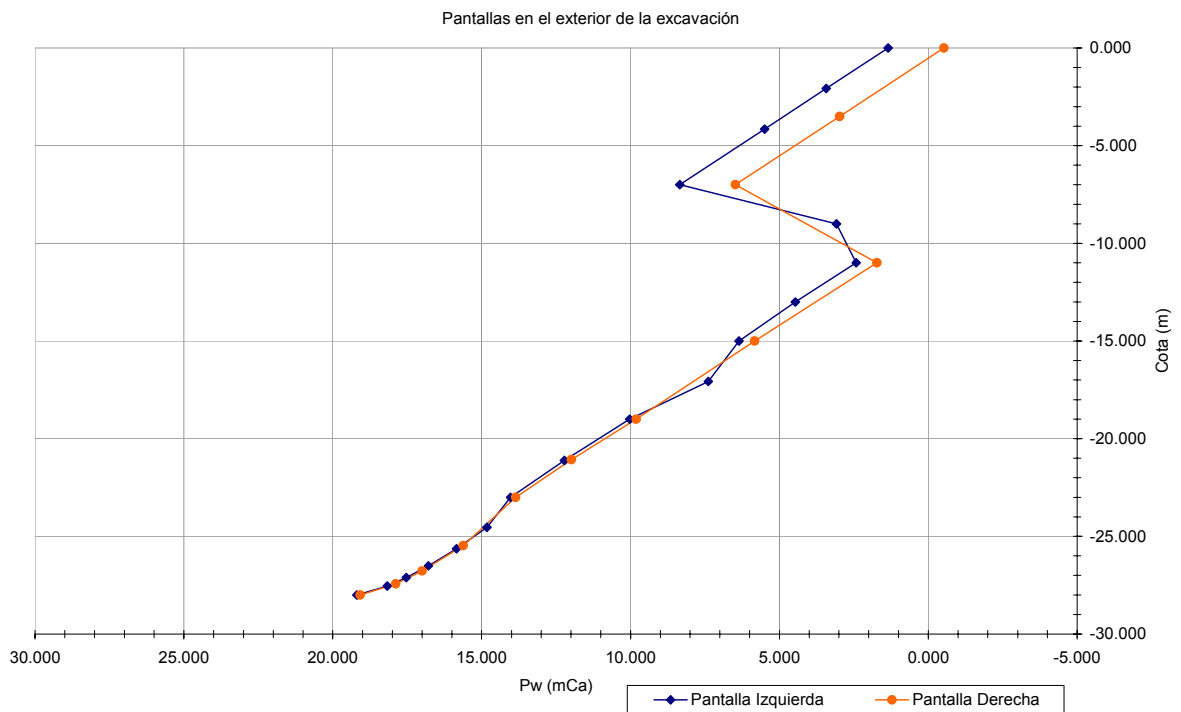
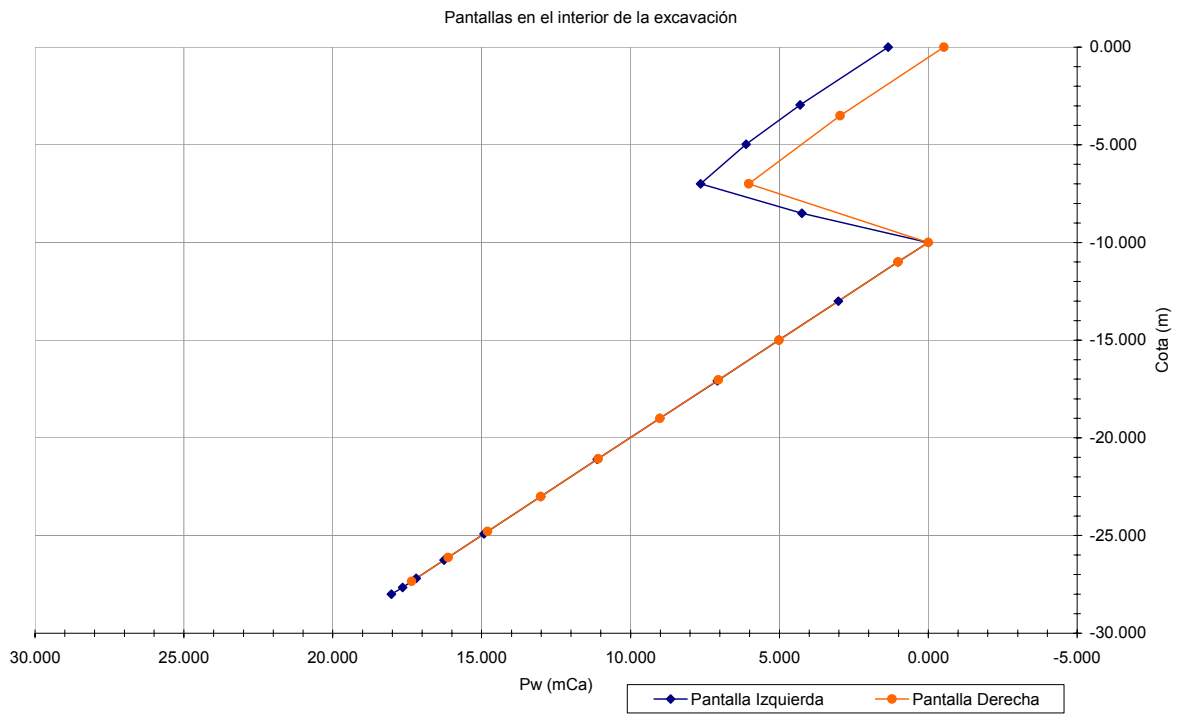
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-4.085	-4.085
891	6.500	-3.500	-4.097	-0.597
846	6.500	-7.000	-4.144	2.856
845	6.500	-11.000	-10.087	0.913
886	6.500	-15.000	-9.335	5.665
923	6.500	-19.000	-7.441	11.559
964	6.500	-21.070	-7.250	13.820
977	6.500	-23.000	-7.159	15.841
976	6.500	-25.470	-6.812	18.658
1,007	6.500	-26.770	-6.649	20.121
985	6.500	-27.430	-6.576	20.854
944	6.500	-28.000	-6.515	21.485

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-4.094	-4.094
890	5.500	-3.500	-4.207	-0.707
847	5.500	-7.000	-6.999	0.001
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-9.898	1.102
885	5.500	-15.000	-9.350	5.650
921	5.500	-17.030	-8.375	8.655
962	5.500	-19.000	-7.457	11.543
963	5.500	-21.070	-7.269	13.801
935	5.500	-23.000	-7.172	15.828
934	5.500	-24.790	-6.908	17.882
933	5.500	-26.120	-6.728	19.392
973	5.500	-27.350	-6.584	20.766

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-9.596	0.914	0.51	0.97	1.06	
754	-5.297	-11.000	-9.199	1.801	1.00	1.90	1.06	8.10E-01
755	-5.297	-13.000	-8.979	4.021	3.00	5.70	1.42	1.10E-01
756	-5.297	-15.000	-8.801	6.199	5.00	9.50	1.53	8.90E-02
794	-5.297	-17.080	-7.957	9.123	7.08	13.45	1.47	4.06E-01
797	-5.297	-19.000	-7.224	11.776	9.00	17.10	1.45	3.82E-01
837	-5.297	-21.100	-7.093	14.007	11.10	21.09	1.51	6.23E-02
804	-5.297	-23.000	-7.008	15.992	13.00	24.70	1.54	4.47E-02
805	-5.297	-24.950	-6.660	18.290	14.95	28.41	1.55	1.78E-01
851	-5.297	-26.340	-6.399	19.941	16.34	31.05	1.56	1.87E-01
854	-5.297	-27.300	-6.176	21.124	17.30	32.87	1.56	2.32E-01
853	-5.297	-27.690	-5.955	21.735	17.69	33.61	1.55	5.68E-01
810	-5.297	-28.010	-5.595	22.415	18.01	34.22	1.53	1.12E+00
766	-5.354	-28.300	-4.870	23.430	18.30	34.77	1.48	2.50E+00
727	-5.127	-28.640	-3.709	24.931	18.64	35.42	1.42	3.42E+00
695	-5.113	-29.810	-2.723	27.087	19.81	37.64	1.39	8.43E-01
612	-5.458	-31.590	-2.688	28.902	21.59	41.02	1.42	1.94E-02
614	-5.040	-35.070	-2.664	32.406	25.07	47.63	1.47	7.04E-03

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	1.350	1.350
627	-6.500	-2.074	1.350	3.424
668	-6.500	-4.149	1.349	5.498
626	-6.500	-7.000	1.347	8.347
623	-6.500	-9.000	-5.920	3.080
665	-6.500	-11.000	-8.579	2.421
664	-6.500	-13.000	-8.531	4.469
708	-6.500	-15.000	-8.642	6.358
707	-6.500	-17.070	-9.682	7.388
752	-6.500	-19.000	-8.975	10.025
759	-6.500	-21.110	-8.887	12.223
721	-6.500	-23.000	-8.968	14.032
761	-6.500	-24.540	-9.719	14.821
802	-6.500	-25.640	-9.793	15.847
770	-6.500	-26.510	-9.720	16.790
731	-6.500	-27.110	-9.579	17.531
730	-6.500	-27.540	-9.367	18.173
686	-6.500	-28.000	-8.811	19.189

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	1.350	1.350
670	-5.500	-2.950	1.349	4.299
714	-5.500	-4.975	1.147	6.122
669	-5.500	-7.000	0.651	7.651
667	-5.500	-8.500	-4.256	4.244
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.975	1.025
710	-5.500	-13.000	-9.979	3.021
751	-5.500	-15.000	-9.979	5.021
753	-5.500	-17.080	-9.993	7.087
795	-5.500	-19.000	-9.984	9.016
796	-5.500	-21.100	-9.984	11.116
762	-5.500	-23.000	-9.985	13.015
803	-5.500	-24.910	-9.992	14.918
814	-5.500	-26.260	-9.995	16.265
813	-5.500	-27.190	-9.994	17.196
808	-5.500	-27.650	-9.996	17.654
807	-5.500	-28.000	-9.966	18.034

Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-0.522	-0.522
891	6.500	-3.500	-0.523	2.977
846	6.500	-7.000	-0.525	6.475
845	6.500	-11.000	-9.274	1.726
886	6.500	-15.000	-9.165	5.835
923	6.500	-19.000	-9.193	9.807
964	6.500	-21.070	-9.088	11.982
977	6.500	-23.000	-9.138	13.862
976	6.500	-25.470	-9.857	15.613
1,007	6.500	-26.770	-9.768	17.002
985	6.500	-27.430	-9.549	17.881
944	6.500	-28.000	-8.925	19.075

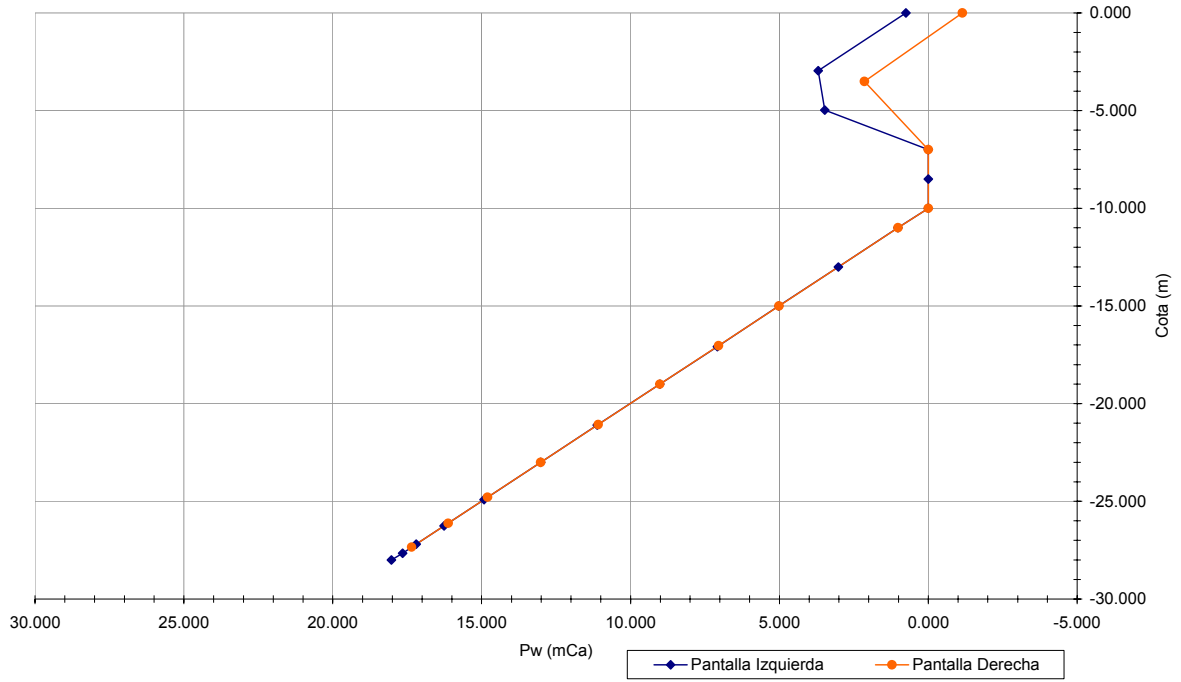
Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-0.524	-0.524
890	5.500	-3.500	-0.540	2.960
847	5.500	-7.000	-0.969	6.031
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-9.985	1.015
885	5.500	-15.000	-9.989	5.011
921	5.500	-17.030	-9.983	7.047
962	5.500	-19.000	-9.987	9.013
963	5.500	-21.070	-9.987	11.083
935	5.500	-23.000	-9.986	13.014
934	5.500	-24.790	-9.993	14.797
933	5.500	-26.120	-9.997	16.123
973	5.500	-27.350	-9.999	17.351

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

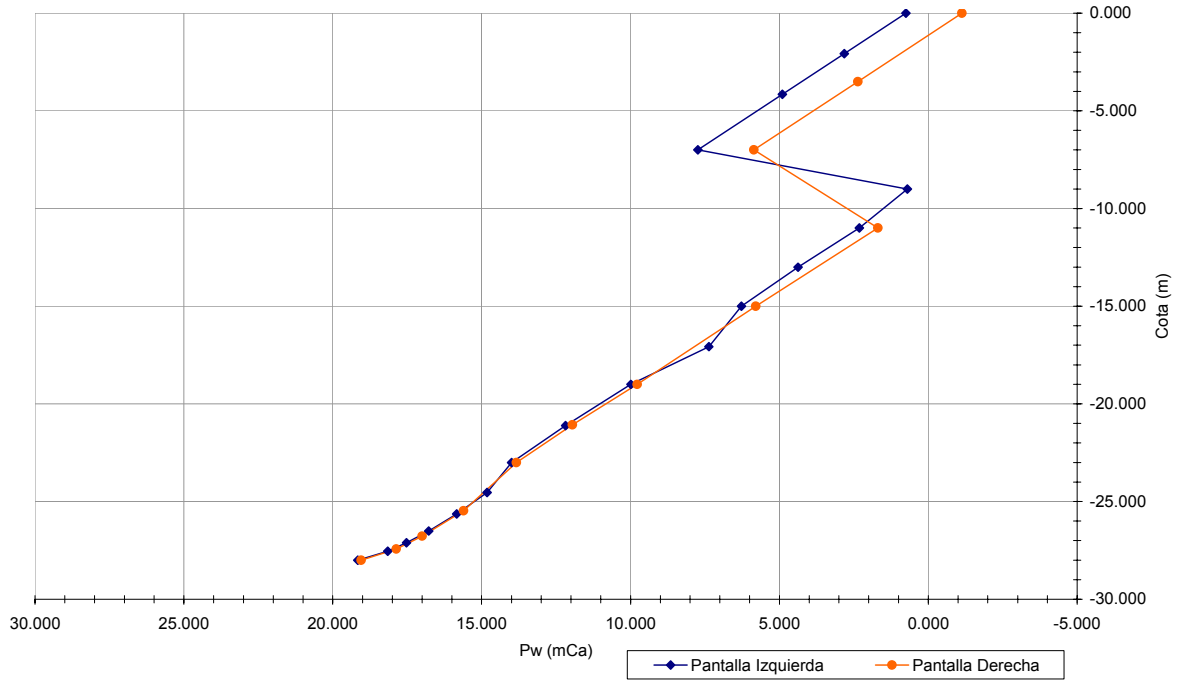
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-9.991	0.519	0.51	0.97	1.87	
754	-5.297	-11.000	-9.986	1.014	1.00	1.90	1.87	9.77E-03
755	-5.297	-13.000	-9.989	3.011	3.00	5.70	1.89	-1.81E-03
756	-5.297	-15.000	-9.992	5.008	5.00	9.50	1.90	-1.49E-03
794	-5.297	-17.080	-10.000	7.080	7.08	13.45	1.90	-3.59E-03
797	-5.297	-19.000	-9.994	9.006	9.00	17.10	1.90	3.29E-03
837	-5.297	-21.100	-9.991	11.109	11.10	21.09	1.90	1.18E-03
804	-5.297	-23.000	-9.994	13.006	13.00	24.70	1.90	-1.37E-03
805	-5.297	-24.950	-9.999	14.951	14.95	28.41	1.90	-2.59E-03
851	-5.297	-26.340	-9.996	16.344	16.34	31.05	1.90	1.90E-03
854	-5.297	-27.300	-9.994	17.306	17.30	32.87	1.90	2.18E-03
853	-5.297	-27.690	-9.992	17.698	17.69	33.61	1.90	6.11E-03
810	-5.297	-28.010	-9.935	18.075	18.01	34.22	1.89	1.78E-01
766	-5.354	-28.300	-7.296	21.004	18.30	34.77	1.66	9.10E+00
727	-5.127	-28.640	-4.478	24.162	18.64	35.42	1.47	8.29E+00
695	-5.113	-29.810	-2.134	27.676	19.81	37.64	1.36	2.00E+00
612	-5.458	-31.590	-2.061	29.529	21.59	41.02	1.39	4.10E-02
614	-5.040	-35.070	-2.011	33.059	25.07	47.63	1.44	1.44E-02

PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantallas en el interior de la excavación



Pantallas en el exterior de la excavación



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	0.751	0.751
627	-6.500	-2.074	0.750	2.824
668	-6.500	-4.149	0.748	4.897
626	-6.500	-7.000	0.736	7.736
623	-6.500	-9.000	-8.297	0.703
665	-6.500	-11.000	-8.682	2.318
664	-6.500	-13.000	-8.626	4.374
708	-6.500	-15.000	-8.728	6.272
707	-6.500	-17.070	-9.699	7.371
752	-6.500	-19.000	-9.012	9.988
759	-6.500	-21.110	-8.927	12.183
721	-6.500	-23.000	-9.005	13.995
761	-6.500	-24.540	-9.728	14.812
802	-6.500	-25.640	-9.799	15.841
770	-6.500	-26.510	-9.727	16.783
731	-6.500	-27.110	-9.590	17.520
730	-6.500	-27.540	-9.383	18.157
686	-6.500	-28.000	-8.842	19.158

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	0.751	0.751
670	-5.500	-2.950	0.747	3.697
714	-5.500	-4.975	-1.500	3.475
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.977	1.023
710	-5.500	-13.000	-9.981	3.019
751	-5.500	-15.000	-9.980	5.020
753	-5.500	-17.080	-9.994	7.086
795	-5.500	-19.000	-9.985	9.015
796	-5.500	-21.100	-9.984	11.116
762	-5.500	-23.000	-9.985	13.015
803	-5.500	-24.910	-9.992	14.918
814	-5.500	-26.260	-9.995	16.265
813	-5.500	-27.190	-9.994	17.196
808	-5.500	-27.650	-9.996	17.654
807	-5.500	-28.000	-9.967	18.033

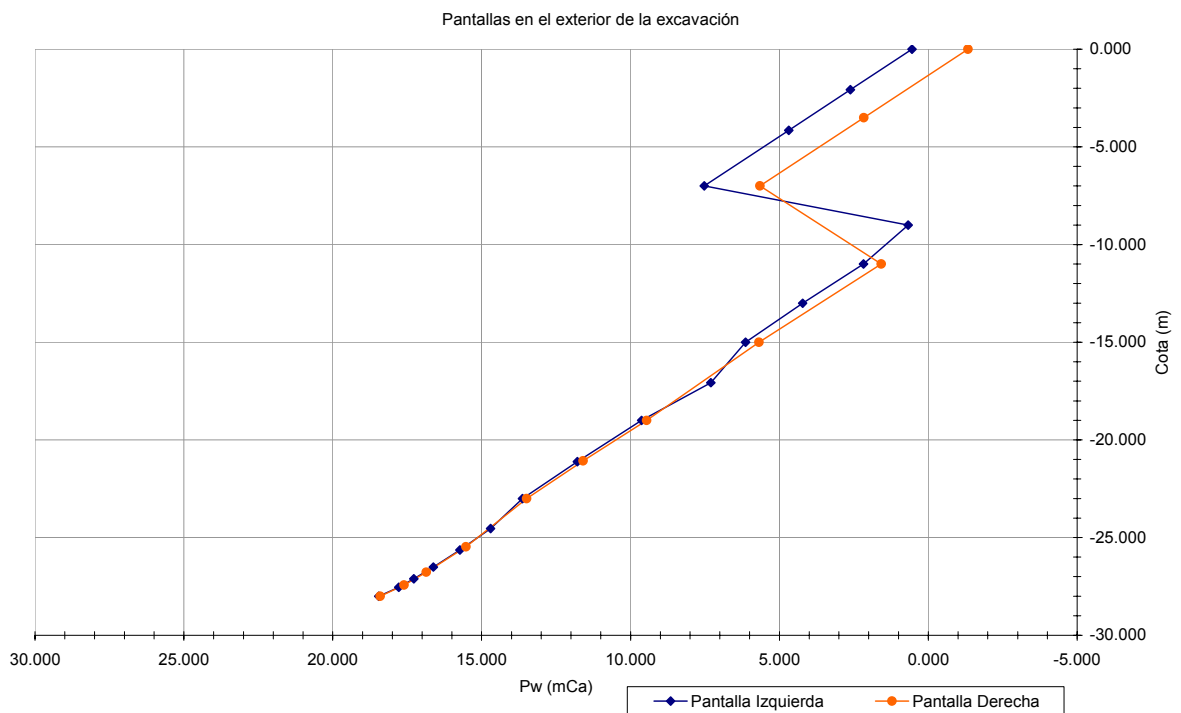
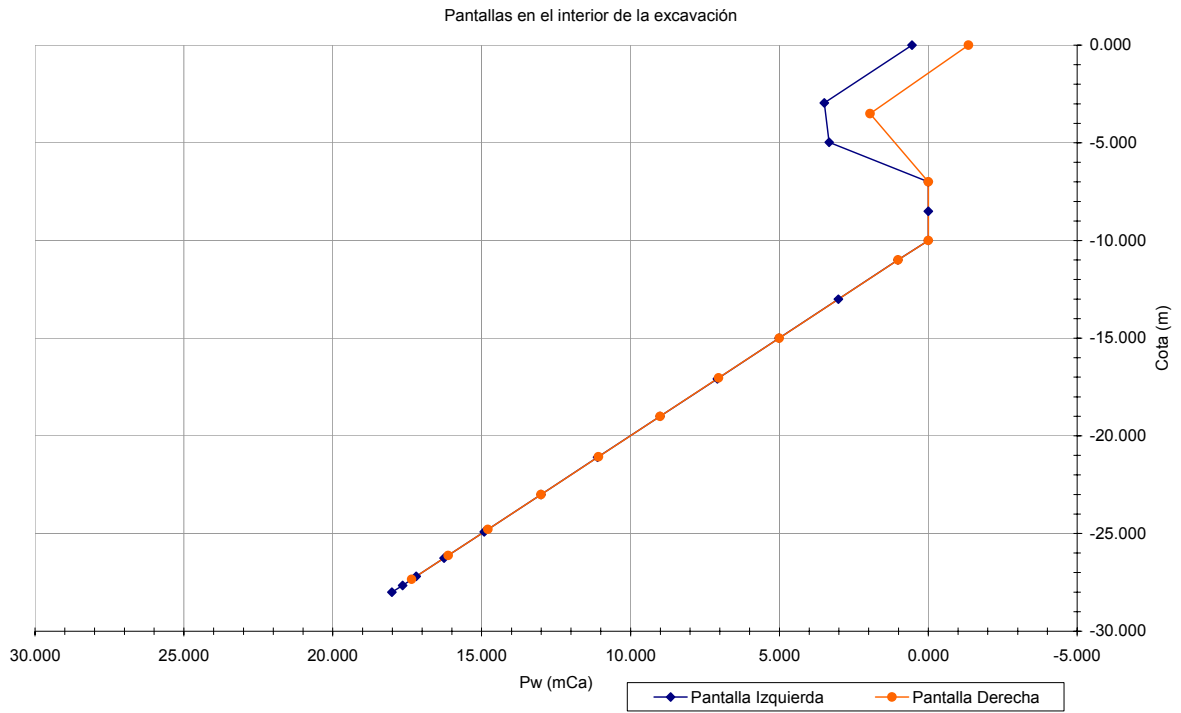
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-1.132	-1.132
891	6.500	-3.500	-1.135	2.365
846	6.500	-7.000	-1.144	5.856
845	6.500	-11.000	-9.310	1.690
886	6.500	-15.000	-9.208	5.792
923	6.500	-19.000	-9.222	9.778
964	6.500	-21.070	-9.121	11.949
977	6.500	-23.000	-9.169	13.831
976	6.500	-25.470	-9.861	15.609
1,007	6.500	-26.770	-9.774	16.996
985	6.500	-27.430	-9.561	17.869
944	6.500	-28.000	-8.952	19.048

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-1.149	-1.149
890	5.500	-3.500	-1.356	2.144
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-9.986	1.014
885	5.500	-15.000	-9.990	5.010
921	5.500	-17.030	-9.984	7.046
962	5.500	-19.000	-9.988	9.012
963	5.500	-21.070	-9.987	11.083
935	5.500	-23.000	-9.986	13.014
934	5.500	-24.790	-9.994	14.796
933	5.500	-26.120	-9.997	16.123
973	5.500	-27.350	-9.999	17.351

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-9.991	0.519	0.51	0.97	1.87	
754	-5.297	-11.000	-9.987	1.013	1.00	1.90	1.88	9.09E-03
755	-5.297	-13.000	-9.990	3.010	3.00	5.70	1.89	-1.65E-03
756	-5.297	-15.000	-9.993	5.007	5.00	9.50	1.90	-1.39E-03
794	-5.297	-17.080	-10.000	7.080	7.08	13.45	1.90	-3.37E-03
797	-5.297	-19.000	-9.994	9.006	9.00	17.10	1.90	3.18E-03
837	-5.297	-21.100	-9.991	11.109	11.10	21.09	1.90	1.14E-03
804	-5.297	-23.000	-9.994	13.006	13.00	24.70	1.90	-1.32E-03
805	-5.297	-24.950	-9.999	14.951	14.95	28.41	1.90	-2.49E-03
851	-5.297	-26.340	-9.996	16.344	16.34	31.05	1.90	1.85E-03
854	-5.297	-27.300	-9.994	17.306	17.30	32.87	1.90	2.12E-03
853	-5.297	-27.690	-9.992	17.698	17.69	33.61	1.90	5.95E-03
810	-5.297	-28.010	-9.936	18.074	18.01	34.22	1.89	1.74E-01
766	-5.354	-28.300	-7.365	20.935	18.30	34.77	1.66	8.86E+00
727	-5.127	-28.640	-4.620	24.020	18.64	35.42	1.47	8.07E+00
695	-5.113	-29.810	-2.337	27.473	19.81	37.64	1.37	1.95E+00
612	-5.458	-31.590	-2.266	29.324	21.59	41.02	1.40	4.00E-02
614	-5.040	-35.070	-2.217	32.853	25.07	47.63	1.45	1.41E-02

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	0.543	0.543
627	-6.500	-2.074	0.543	2.617
668	-6.500	-4.149	0.540	4.689
626	-6.500	-7.000	0.529	7.529
623	-6.500	-9.000	-8.321	0.679
665	-6.500	-11.000	-8.824	2.176
664	-6.500	-13.000	-8.776	4.224
708	-6.500	-15.000	-8.868	6.132
707	-6.500	-17.070	-9.766	7.304
752	-6.500	-19.000	-9.369	9.631
759	-6.500	-21.110	-9.318	11.792
721	-6.500	-23.000	-9.369	13.631
761	-6.500	-24.540	-9.842	14.698
802	-6.500	-25.640	-9.905	15.735
770	-6.500	-26.510	-9.886	16.624
731	-6.500	-27.110	-9.835	17.275
730	-6.500	-27.540	-9.756	17.784
686	-6.500	-28.000	-9.546	18.454

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	0.543	0.543
670	-5.500	-2.950	0.540	3.490
714	-5.500	-4.975	-1.648	3.327
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.980	1.020
710	-5.500	-13.000	-9.983	3.017
751	-5.500	-15.000	-9.982	5.018
753	-5.500	-17.080	-9.995	7.085
795	-5.500	-19.000	-9.990	9.010
796	-5.500	-21.100	-9.990	11.110
762	-5.500	-23.000	-9.991	13.009
803	-5.500	-24.910	-9.996	14.914
814	-5.500	-26.260	-9.998	16.262
813	-5.500	-27.190	-9.998	17.192
808	-5.500	-27.650	-9.999	17.651
807	-5.500	-28.000	-9.987	18.013

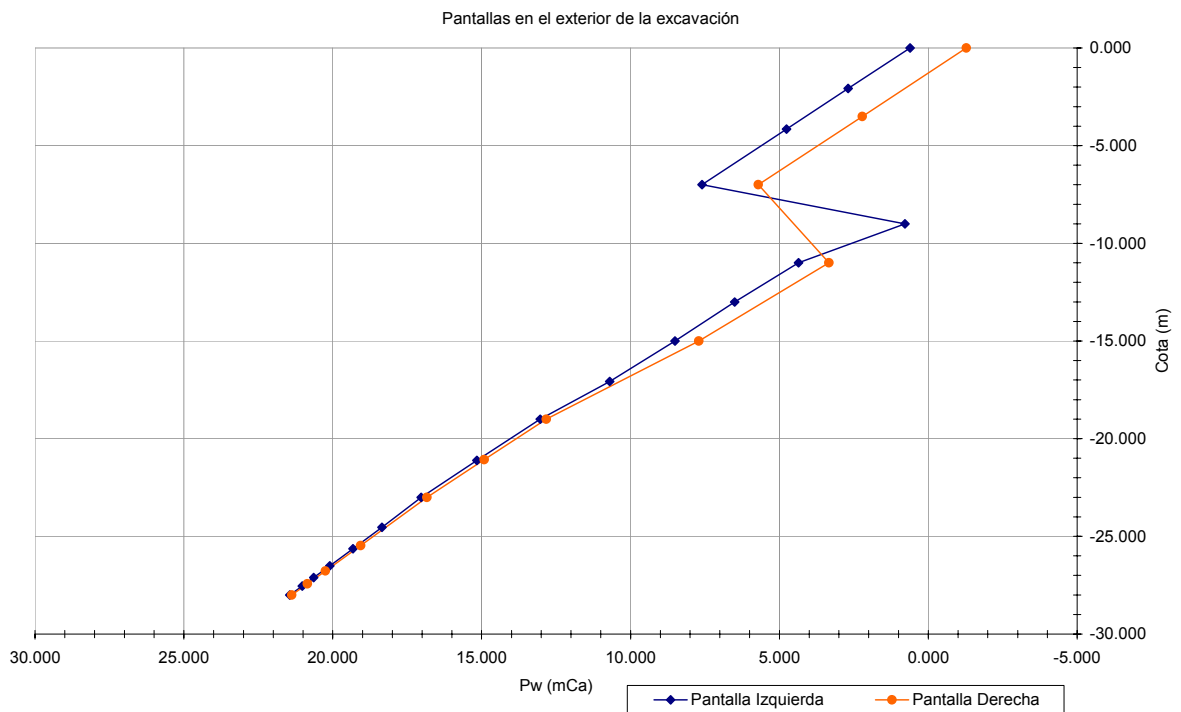
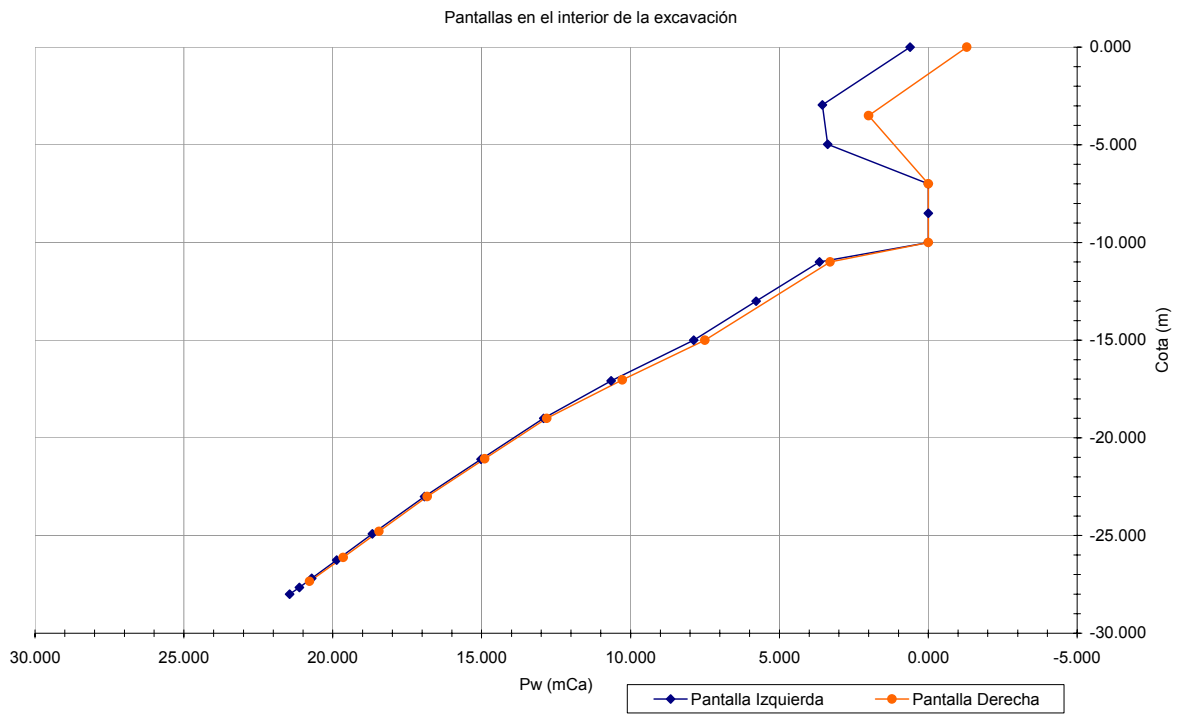
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-1.332	-1.332
891	6.500	-3.500	-1.334	2.166
846	6.500	-7.000	-1.344	5.656
845	6.500	-11.000	-9.418	1.582
886	6.500	-15.000	-9.314	5.686
923	6.500	-19.000	-9.543	9.457
964	6.500	-21.070	-9.479	11.591
977	6.500	-23.000	-9.507	13.493
976	6.500	-25.470	-9.942	15.528
1,007	6.500	-26.770	-9.910	16.860
985	6.500	-27.430	-9.827	17.603
944	6.500	-28.000	-9.591	18.409

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-1.348	-1.348
890	5.500	-3.500	-1.549	1.951
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-9.988	1.012
885	5.500	-15.000	-9.991	5.009
921	5.500	-17.030	-9.988	7.042
962	5.500	-19.000	-9.993	9.007
963	5.500	-21.070	-9.993	11.077
935	5.500	-23.000	-9.992	13.008
934	5.500	-24.790	-9.997	14.793
933	5.500	-26.120	-9.999	16.121
973	5.500	-27.350	-10.000	17.350

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-9.992	0.518	0.51	0.97	1.87	
754	-5.297	-11.000	-9.988	1.012	1.00	1.90	1.88	8.11E-03
755	-5.297	-13.000	-9.991	3.009	3.00	5.70	1.89	-1.48E-03
756	-5.297	-15.000	-9.994	5.006	5.00	9.50	1.90	-1.24E-03
794	-5.297	-17.080	-10.000	7.080	7.08	13.45	1.90	-3.00E-03
797	-5.297	-19.000	-9.996	9.004	9.00	17.10	1.90	1.95E-04
837	-5.297	-21.100	-9.995	11.105	11.10	21.09	1.90	6.60E-04
804	-5.297	-23.000	-9.996	13.004	13.00	24.70	1.90	-8.31E-04
805	-5.297	-24.950	-10.000	14.950	14.95	28.41	1.90	-1.60E-03
851	-5.297	-26.340	-9.999	16.341	16.34	31.05	1.90	7.13E-04
854	-5.297	-27.300	-9.998	17.302	17.30	32.87	1.90	8.22E-04
853	-5.297	-27.690	-9.997	17.693	17.69	33.61	1.90	2.31E-03
810	-5.297	-28.010	-9.975	18.035	18.01	34.22	1.90	6.75E-02
766	-5.354	-28.300	-8.976	19.324	18.30	34.77	1.80	3.45E+00
727	-5.127	-28.640	-7.909	20.731	18.64	35.42	1.71	3.14E+00
695	-5.113	-29.810	-7.021	22.789	19.81	37.64	1.65	7.59E-01
612	-5.458	-31.590	-6.994	24.596	21.59	41.02	1.67	1.55E-02
614	-5.040	-35.070	-6.975	28.095	25.07	47.63	1.70	5.40E-03

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	0.615	0.615
627	-6.500	-2.074	0.614	2.688
668	-6.500	-4.149	0.612	4.761
626	-6.500	-7.000	0.600	7.600
623	-6.500	-9.000	-8.212	0.788
665	-6.500	-11.000	-6.641	4.359
664	-6.500	-13.000	-6.495	6.505
708	-6.500	-15.000	-6.492	8.508
707	-6.500	-17.070	-6.374	10.696
752	-6.500	-19.000	-5.970	13.030
759	-6.500	-21.110	-5.952	15.158
721	-6.500	-23.000	-5.966	17.034
761	-6.500	-24.540	-6.193	18.347
802	-6.500	-25.640	-6.320	19.320
770	-6.500	-26.510	-6.413	20.097
731	-6.500	-27.110	-6.473	20.637
730	-6.500	-27.540	-6.512	21.028
686	-6.500	-28.000	-6.556	21.444

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	0.615	0.615
670	-5.500	-2.950	0.611	3.561
714	-5.500	-4.975	-1.597	3.378
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-7.342	3.658
710	-5.500	-13.000	-7.213	5.787
751	-5.500	-15.000	-7.119	7.881
753	-5.500	-17.080	-6.429	10.651
795	-5.500	-19.000	-6.085	12.915
796	-5.500	-21.100	-6.082	15.018
762	-5.500	-23.000	-6.079	16.921
803	-5.500	-24.910	-6.244	18.666
814	-5.500	-26.260	-6.390	19.870
813	-5.500	-27.190	-6.482	20.708
808	-5.500	-27.650	-6.524	21.126
807	-5.500	-28.000	-6.554	21.446

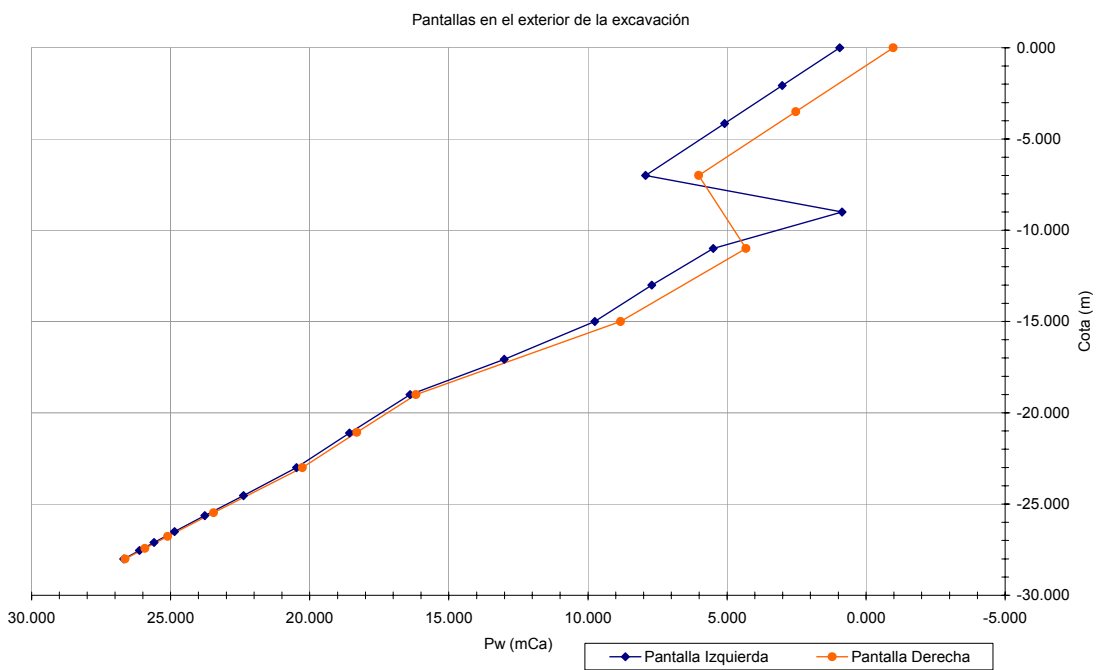
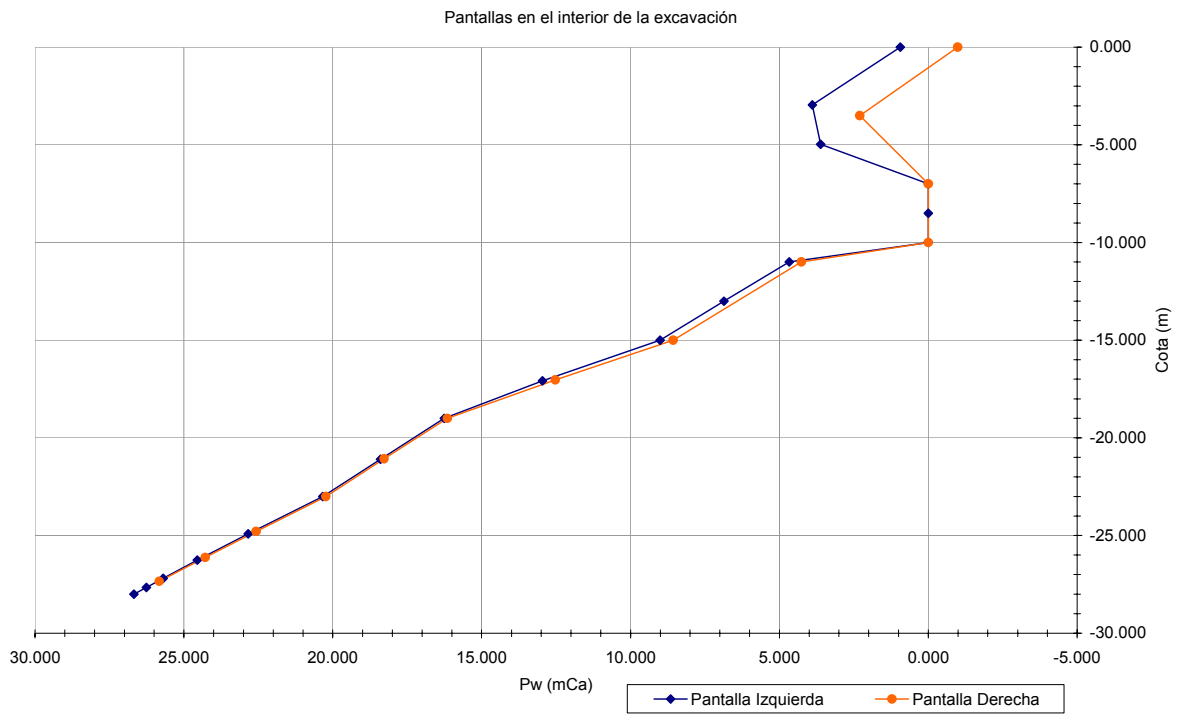
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-1.281	-1.281
891	6.500	-3.500	-1.284	2.216
846	6.500	-7.000	-1.293	5.707
845	6.500	-11.000	-7.667	3.333
886	6.500	-15.000	-7.293	7.707
923	6.500	-19.000	-6.176	12.824
964	6.500	-21.070	-6.158	14.912
977	6.500	-23.000	-6.160	16.840
976	6.500	-25.470	-6.406	19.064
1,007	6.500	-26.770	-6.523	20.247
985	6.500	-27.430	-6.577	20.853
944	6.500	-28.000	-6.623	21.377

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-1.298	-1.298
890	5.500	-3.500	-1.500	2.000
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-7.701	3.299
885	5.500	-15.000	-7.502	7.498
921	5.500	-17.030	-6.753	10.277
962	5.500	-19.000	-6.188	12.812
963	5.500	-21.070	-6.173	14.897
935	5.500	-23.000	-6.173	16.827
934	5.500	-24.790	-6.341	18.449
933	5.500	-26.120	-6.466	19.654
973	5.500	-27.350	-6.571	20.779

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	Gradiente bajo fondo excavación	
							FS	
711	-5.297	-10.510	-8.632	1.878	0.51	0.97	0.52	
754	-5.297	-11.000	-7.338	3.662	1.00	1.90	0.52	2.64E+00
755	-5.297	-13.000	-7.227	5.773	3.00	5.70	0.99	5.54E-02
756	-5.297	-15.000	-7.147	7.853	5.00	9.50	1.21	4.03E-02
794	-5.297	-17.080	-6.468	10.612	7.08	13.45	1.27	3.26E-01
797	-5.297	-19.000	-6.088	12.912	9.00	17.10	1.32	1.98E-01
837	-5.297	-21.100	-6.085	15.015	11.10	21.09	1.40	1.46E-03
804	-5.297	-23.000	-6.083	16.917	13.00	24.70	1.46	1.08E-03
805	-5.297	-24.950	-6.258	18.692	14.95	28.41	1.52	-8.99E-02
851	-5.297	-26.340	-6.411	19.929	16.34	31.05	1.56	-1.10E-01
854	-5.297	-27.300	-6.515	20.785	17.30	32.87	1.58	-1.08E-01
853	-5.297	-27.690	-6.566	21.124	17.69	33.61	1.59	-1.32E-01
810	-5.297	-28.010	-6.623	21.387	18.01	34.22	1.60	-1.77E-01
766	-5.354	-28.300	-6.709	21.591	18.30	34.77	1.61	-2.95E-01
727	-5.127	-28.640	-6.838	21.802	18.64	35.42	1.62	-3.81E-01
695	-5.113	-29.810	-6.954	22.856	19.81	37.64	1.65	-9.95E-02
612	-5.458	-31.590	-6.959	24.631	21.59	41.02	1.67	-2.53E-03
614	-5.040	-35.070	-6.962	28.108	25.07	47.63	1.69	-9.75E-04

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	0.944	0.944
627	-6.500	-2.074	0.943	3.017
668	-6.500	-4.149	0.940	5.089
626	-6.500	-7.000	0.929	7.929
623	-6.500	-9.000	-8.131	0.869
665	-6.500	-11.000	-5.500	5.500
664	-6.500	-13.000	-5.293	7.707
708	-6.500	-15.000	-5.252	9.748
707	-6.500	-17.070	-4.060	13.010
752	-6.500	-19.000	-2.603	16.397
759	-6.500	-21.110	-2.541	18.569
721	-6.500	-23.000	-2.521	20.479
761	-6.500	-24.540	-2.160	22.380
802	-6.500	-25.640	-1.869	23.771
770	-6.500	-26.510	-1.649	24.861
731	-6.500	-27.110	-1.508	25.602
730	-6.500	-27.540	-1.415	26.125
686	-6.500	-28.000	-1.311	26.689

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	0.944	0.944
670	-5.500	-2.950	0.940	3.890
714	-5.500	-4.975	-1.363	3.612
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-6.327	4.673
710	-5.500	-13.000	-6.139	6.861
751	-5.500	-15.000	-5.993	9.007
753	-5.500	-17.080	-4.122	12.958
795	-5.500	-19.000	-2.742	16.258
796	-5.500	-21.100	-2.699	18.401
762	-5.500	-23.000	-2.661	20.339
803	-5.500	-24.910	-2.069	22.841
814	-5.500	-26.260	-1.712	24.548
813	-5.500	-27.190	-1.490	25.700
808	-5.500	-27.650	-1.391	26.259
807	-5.500	-28.000	-1.320	26.680

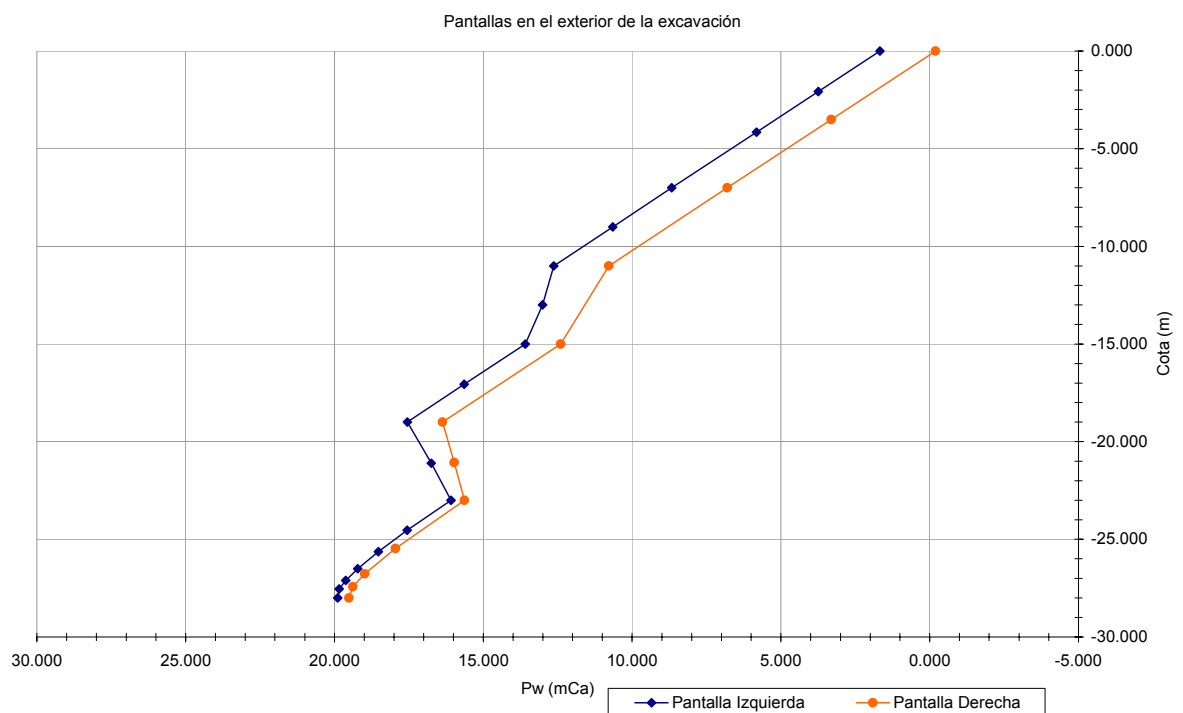
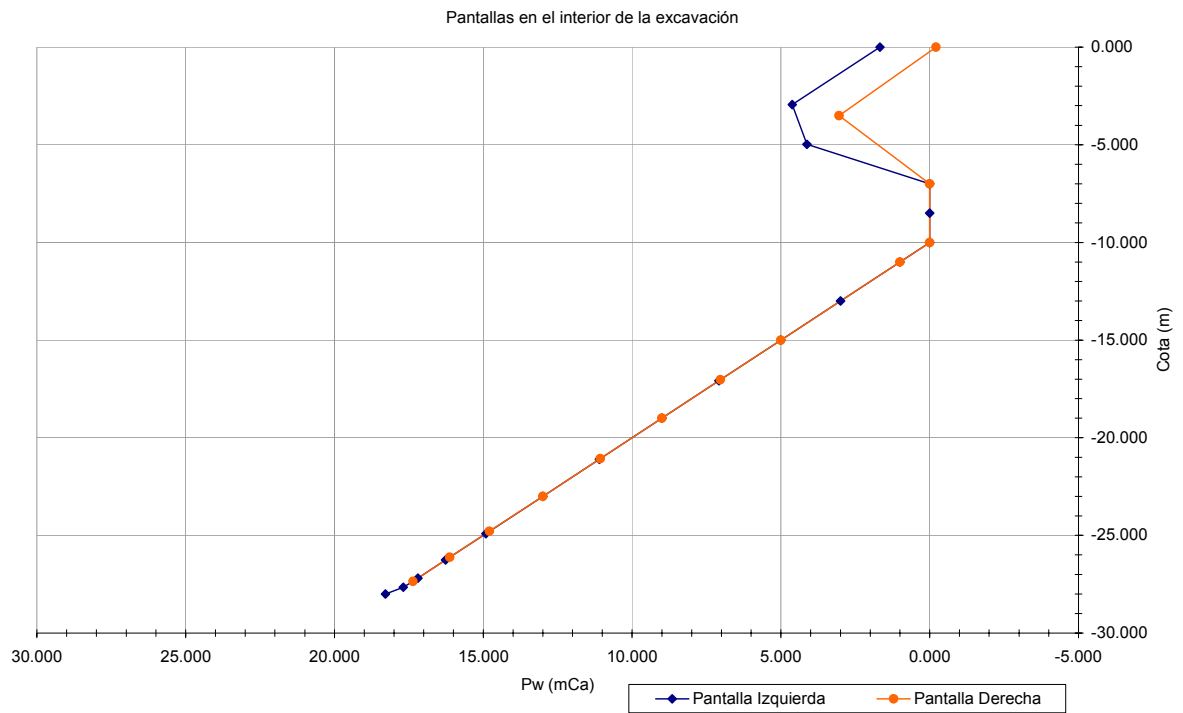
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-0.971	-0.971
891	6.500	-3.500	-0.973	2.527
846	6.500	-7.000	-0.984	6.016
845	6.500	-11.000	-6.685	4.315
886	6.500	-15.000	-6.173	8.827
923	6.500	-19.000	-2.822	16.178
964	6.500	-21.070	-2.764	18.306
977	6.500	-23.000	-2.736	20.264
976	6.500	-25.470	-2.018	23.452
1,007	6.500	-26.770	-1.665	25.105
985	6.500	-27.430	-1.503	25.927
944	6.500	-28.000	-1.366	26.634

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-0.988	-0.988
890	5.500	-3.500	-1.201	2.299
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-6.736	4.264
885	5.500	-15.000	-6.437	8.563
921	5.500	-17.030	-4.506	12.524
962	5.500	-19.000	-2.853	16.147
963	5.500	-21.070	-2.797	18.273
935	5.500	-23.000	-2.765	20.235
934	5.500	-24.790	-2.219	22.571
933	5.500	-26.120	-1.839	24.281
973	5.500	-27.350	-1.521	25.829

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO \ SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	Gradiente bajo fondo excavación	
							FS	
711	-5.297	-10.510	-8.108	2.402	0.51	0.97	0.40	
754	-5.297	-11.000	-6.317	4.683	1.00	1.90	0.41	3.65E+00
755	-5.297	-13.000	-6.156	6.844	3.00	5.70	0.83	8.08E-02
756	-5.297	-15.000	-6.030	8.970	5.00	9.50	1.06	6.28E-02
794	-5.297	-17.080	-4.168	12.912	7.08	13.45	1.04	8.95E-01
797	-5.297	-19.000	-2.741	16.259	9.00	17.10	1.05	7.43E-01
837	-5.297	-21.100	-2.703	18.397	11.10	21.09	1.15	1.84E-02
804	-5.297	-23.000	-2.669	20.331	13.00	24.70	1.21	1.77E-02
805	-5.297	-24.950	-2.058	22.892	14.95	28.41	1.24	3.13E-01
851	-5.297	-26.340	-1.673	24.667	16.34	31.05	1.26	2.77E-01
854	-5.297	-27.300	-1.420	25.880	17.30	32.87	1.27	2.63E-01
853	-5.297	-27.690	-1.295	26.395	17.69	33.61	1.27	3.20E-01
810	-5.297	-28.010	-1.160	26.850	18.01	34.22	1.27	4.24E-01
766	-5.354	-28.300	-0.955	27.345	18.30	34.77	1.27	7.05E-01
727	-5.127	-28.640	-0.648	27.992	18.64	35.42	1.27	9.03E-01
695	-5.113	-29.810	-0.369	29.441	19.81	37.64	1.28	2.39E-01
612	-5.458	-31.590	-0.358	31.232	21.59	41.02	1.31	6.12E-03
614	-5.040	-35.070	-0.350	34.720	25.07	47.63	1.37	2.31E-03

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	1.668	1.668
627	-6.500	-2.074	1.668	3.742
668	-6.500	-4.149	1.668	5.817
626	-6.500	-7.000	1.668	8.668
623	-6.500	-9.000	1.650	10.650
665	-6.500	-11.000	1.632	12.632
664	-6.500	-13.000	0.011	13.011
708	-6.500	-15.000	-1.410	13.590
707	-6.500	-17.070	-1.428	15.642
752	-6.500	-19.000	-1.451	17.549
759	-6.500	-21.110	-4.362	16.748
721	-6.500	-23.000	-6.918	16.082
761	-6.500	-24.540	-6.980	17.560
802	-6.500	-25.640	-7.115	18.525
770	-6.500	-26.510	-7.293	19.217
731	-6.500	-27.110	-7.488	19.622
730	-6.500	-27.540	-7.700	19.840
686	-6.500	-28.000	-8.105	19.895

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	1.668	1.668
670	-5.500	-2.950	1.666	4.616
714	-5.500	-4.975	-0.847	4.128
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-10.000	1.000
710	-5.500	-13.000	-10.000	3.000
751	-5.500	-15.000	-10.000	5.000
753	-5.500	-17.080	-10.000	7.080
795	-5.500	-19.000	-10.000	9.000
796	-5.500	-21.100	-10.000	11.100
762	-5.500	-23.000	-9.999	13.001
803	-5.500	-24.910	-9.997	14.913
814	-5.500	-26.260	-9.994	16.266
813	-5.500	-27.190	-9.988	17.202
808	-5.500	-27.650	-9.957	17.693
807	-5.500	-28.000	-9.714	18.286

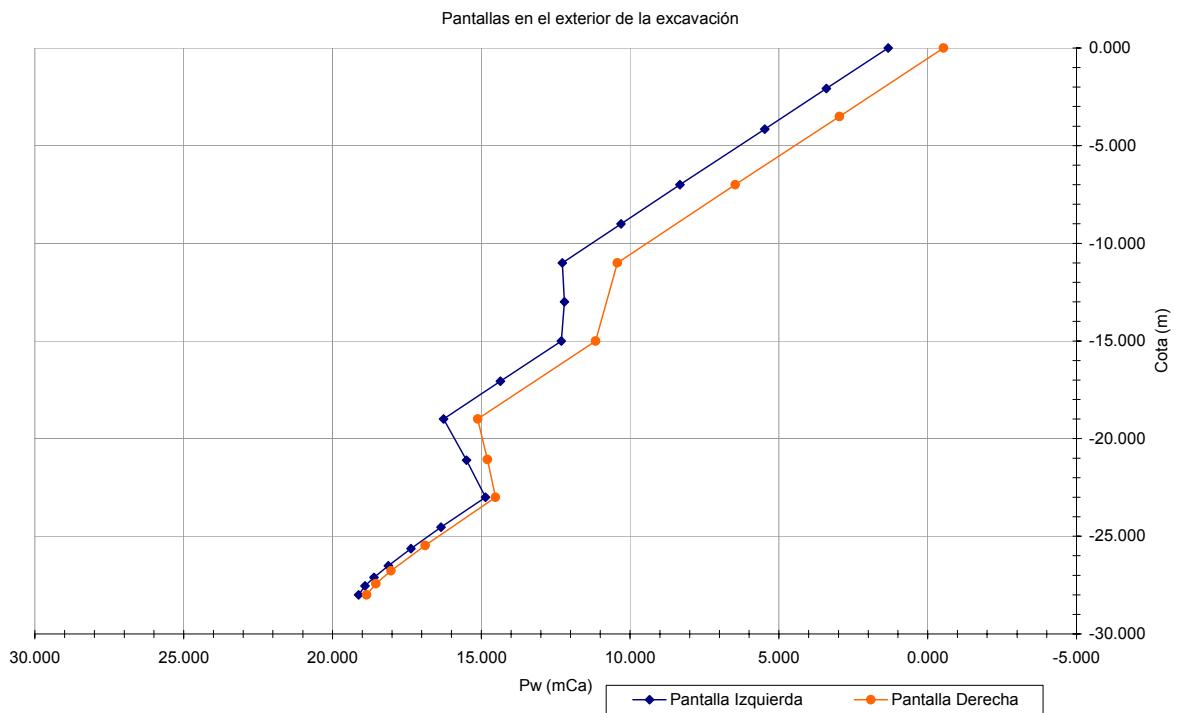
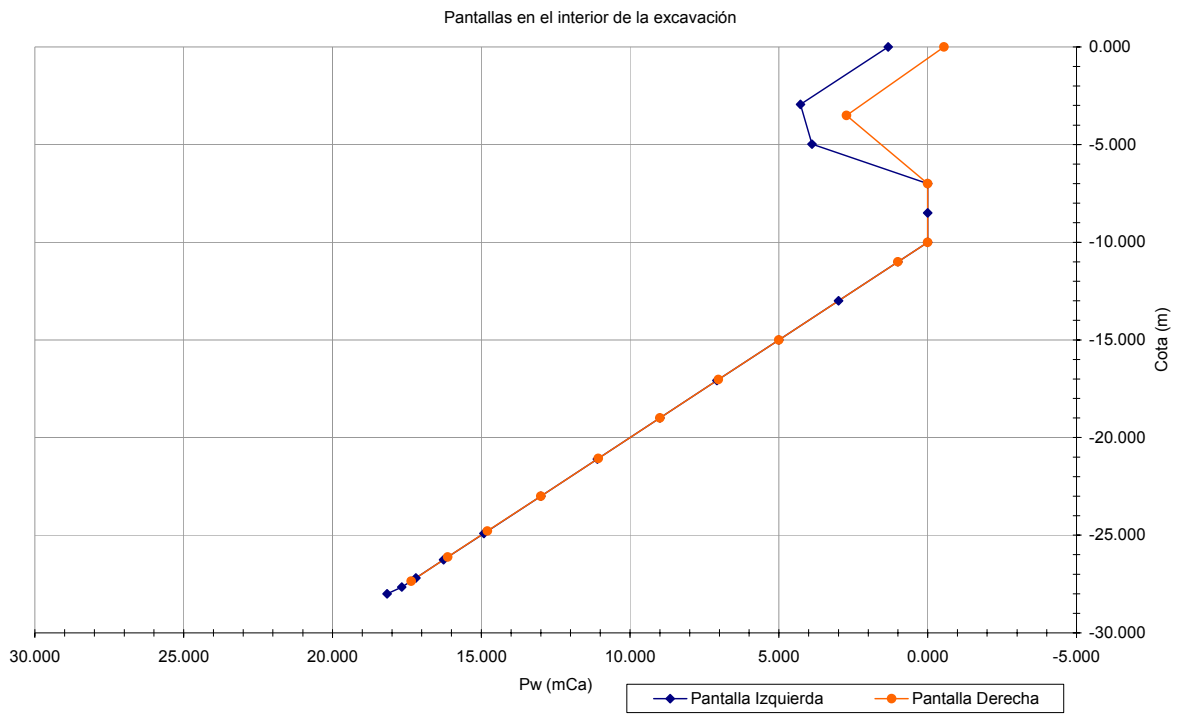
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-0.194	-0.194
891	6.500	-3.500	-0.194	3.306
846	6.500	-7.000	-0.194	6.806
845	6.500	-11.000	-0.223	10.777
886	6.500	-15.000	-2.597	12.403
923	6.500	-19.000	-2.630	16.370
964	6.500	-21.070	-5.095	15.975
977	6.500	-23.000	-7.363	15.637
976	6.500	-25.470	-7.521	17.949
1,007	6.500	-26.770	-7.785	18.985
985	6.500	-27.430	-8.046	19.384
944	6.500	-28.000	-8.487	19.513

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-0.214	-0.214
890	5.500	-3.500	-0.452	3.048
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-10.000	1.000
885	5.500	-15.000	-10.000	5.000
921	5.500	-17.030	-10.000	7.030
962	5.500	-19.000	-10.000	9.000
963	5.500	-21.070	-10.000	11.070
935	5.500	-23.000	-9.999	13.001
934	5.500	-24.790	-9.997	14.793
933	5.500	-26.120	-9.996	16.124
973	5.500	-27.350	-9.989	17.361

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO / SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-10.000	0.510	0.510	0.97	1.90	
754	-5.297	-11.000	-10.000	1.000	1.000	1.90	1.90	-1.33E-05
755	-5.297	-13.000	-10.000	3.000	3.000	5.70	1.90	-2.72E-05
756	-5.297	-15.000	-10.000	5.000	5.000	9.50	1.90	2.80E-05
794	-5.297	-17.080	-10.000	7.080	7.080	13.45	1.90	1.12E-05
797	-5.297	-19.000	-10.000	9.000	9.000	17.10	1.90	-6.30E-06
837	-5.297	-21.100	-10.000	11.100	11.100	21.09	1.90	-1.71E-05
804	-5.297	-23.000	-9.997	13.003	13.000	24.70	1.90	1.48E-03
805	-5.297	-24.950	-9.995	14.955	14.950	28.41	1.90	1.30E-03
851	-5.297	-26.340	-9.988	16.352	16.340	31.05	1.90	5.05E-03
854	-5.297	-27.300	-9.970	17.330	17.300	32.87	1.90	1.85E-02
853	-5.297	-27.690	-9.916	17.774	17.690	33.61	1.89	1.39E-01
810	-5.297	-28.010	-9.759	18.251	18.010	34.22	1.87	4.90E-01
766	-5.354	-28.300	-9.505	18.795	18.300	34.77	1.85	8.73E-01
727	-5.127	-28.640	-9.465	19.175	18.640	35.42	1.85	1.18E-01
695	-5.113	-29.810	-7.602	22.208	19.810	37.64	1.69	1.59E+00
612	-5.458	-31.590	-3.957	27.633	21.590	41.02	1.48	2.05E+00
614	-5.040	-35.070	-1.282	33.788	25.070	47.63	1.41	7.69E-01

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	1.328	1.328
627	-6.500	-2.074	1.328	3.402
668	-6.500	-4.149	1.328	5.477
626	-6.500	-7.000	1.328	8.328
623	-6.500	-9.000	1.305	10.305
665	-6.500	-11.000	1.283	12.283
664	-6.500	-13.000	-0.797	12.203
708	-6.500	-15.000	-2.692	12.308
707	-6.500	-17.070	-2.714	14.356
752	-6.500	-19.000	-2.738	16.262
759	-6.500	-21.110	-5.618	15.492
721	-6.500	-23.000	-8.143	14.857
761	-6.500	-24.540	-8.189	16.351
802	-6.500	-25.640	-8.275	17.365
770	-6.500	-26.510	-8.386	18.124
731	-6.500	-27.110	-8.506	18.604
730	-6.500	-27.540	-8.635	18.905
686	-6.500	-28.000	-8.879	19.121

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	1.328	1.328
670	-5.500	-2.950	1.326	4.276
714	-5.500	-4.975	-1.088	3.887
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-10.000	1.000
710	-5.500	-13.000	-10.000	3.000
751	-5.500	-15.000	-10.000	5.000
753	-5.500	-17.080	-10.000	7.080
795	-5.500	-19.000	-10.000	9.000
796	-5.500	-21.100	-10.000	11.100
762	-5.500	-23.000	-9.999	13.001
803	-5.500	-24.910	-9.998	14.912
814	-5.500	-26.260	-9.997	16.263
813	-5.500	-27.190	-9.993	17.197
808	-5.500	-27.650	-9.976	17.674
807	-5.500	-28.000	-9.833	18.167

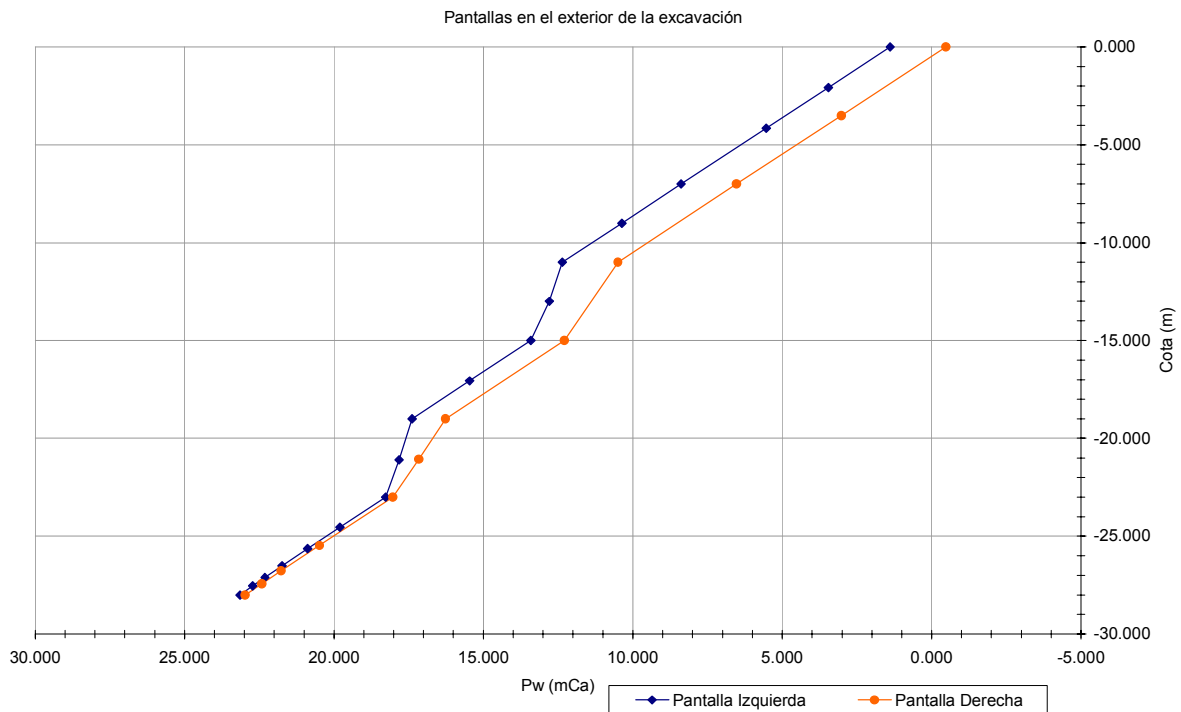
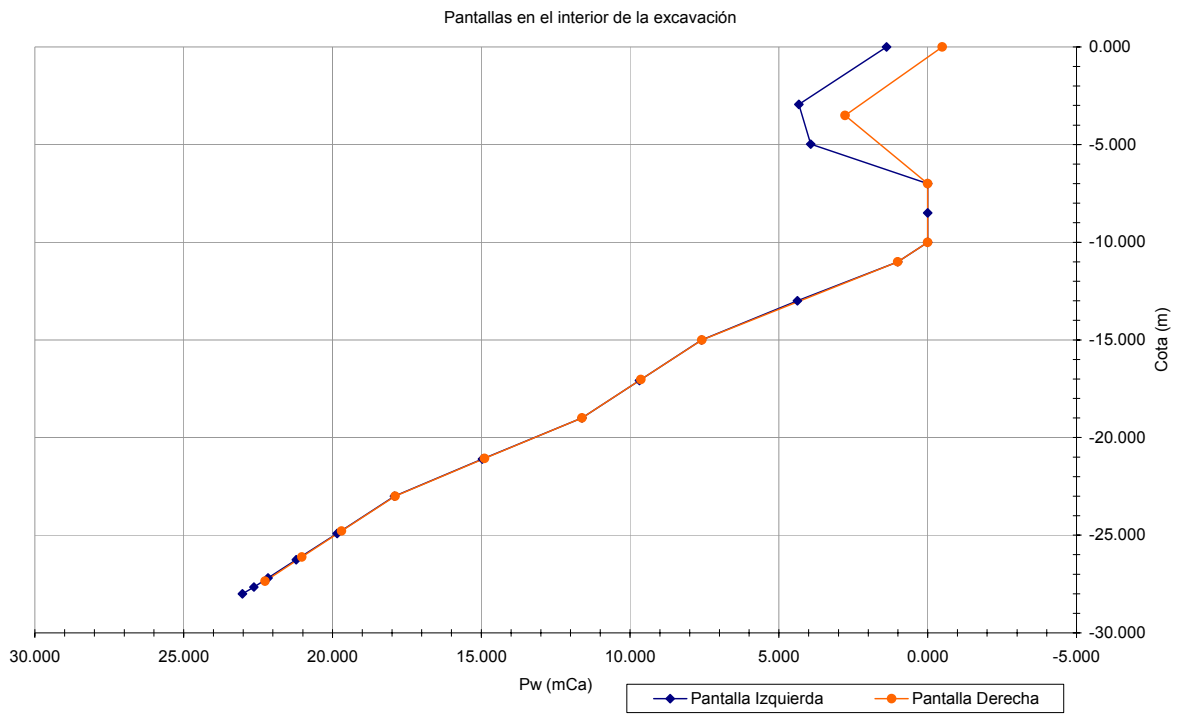
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-0.532	-0.532
891	6.500	-3.500	-0.532	2.968
846	6.500	-7.000	-0.532	6.468
845	6.500	-11.000	-0.569	10.431
886	6.500	-15.000	-3.842	11.158
923	6.500	-19.000	-3.880	15.120
964	6.500	-21.070	-6.279	14.791
977	6.500	-23.000	-8.480	14.520
976	6.500	-25.470	-8.582	16.888
1,007	6.500	-26.770	-8.739	18.031
985	6.500	-27.430	-8.890	18.540
944	6.500	-28.000	-9.144	18.856

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-0.551	-0.551
890	5.500	-3.500	-0.777	2.723
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-10.000	1.000
885	5.500	-15.000	-10.000	5.000
921	5.500	-17.030	-10.000	7.030
962	5.500	-19.000	-10.000	9.000
963	5.500	-21.070	-10.000	11.070
935	5.500	-23.000	-10.000	13.000
934	5.500	-24.790	-9.999	14.791
933	5.500	-26.120	-9.998	16.122
973	5.500	-27.350	-9.994	17.356

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO / SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-10.000	0.510	0.510	0.97	1.90	
754	-5.297	-11.000	-10.000	1.000	1.000	1.90	1.90	-1.29E-05
755	-5.297	-13.000	-10.000	3.000	3.000	5.70	1.90	-2.65E-05
756	-5.297	-15.000	-10.000	5.000	5.000	9.50	1.90	2.21E-05
794	-5.297	-17.080	-10.000	7.080	7.080	13.45	1.90	7.55E-06
797	-5.297	-19.000	-10.000	9.000	9.000	17.10	1.90	-5.57E-06
837	-5.297	-21.100	-10.000	11.100	11.100	21.09	1.90	-1.62E-05
804	-5.297	-23.000	-9.999	13.001	13.000	24.70	1.90	7.53E-04
805	-5.297	-24.950	-9.997	14.953	14.950	28.41	1.90	6.83E-04
851	-5.297	-26.340	-9.993	16.347	16.340	31.05	1.90	2.79E-03
854	-5.297	-27.300	-9.983	17.317	17.300	32.87	1.90	1.07E-02
853	-5.297	-27.690	-9.952	17.738	17.690	33.61	1.89	8.08E-02
810	-5.297	-28.010	-9.860	18.150	18.010	34.22	1.89	2.85E-01
766	-5.354	-28.300	-9.713	18.587	18.300	34.77	1.87	5.09E-01
727	-5.127	-28.640	-9.692	18.948	18.640	35.42	1.87	6.05E-02
695	-5.113	-29.810	-9.022	20.788	19.810	37.64	1.81	5.73E-01
612	-5.458	-31.590	-7.801	23.789	21.590	41.02	1.72	6.86E-01
614	-5.040	-35.070	-6.961	28.109	25.070	47.63	1.69	2.41E-01

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	1.384	1.384
627	-6.500	-2.074	1.384	3.458
668	-6.500	-4.149	1.384	5.533
626	-6.500	-7.000	1.384	8.384
623	-6.500	-9.000	1.366	10.366
665	-6.500	-11.000	1.349	12.349
664	-6.500	-13.000	-0.207	12.793
708	-6.500	-15.000	-1.593	13.407
707	-6.500	-17.070	-1.608	15.462
752	-6.500	-19.000	-1.623	17.377
759	-6.500	-21.110	-3.291	17.819
721	-6.500	-23.000	-4.725	18.275
761	-6.500	-24.540	-4.741	19.799
802	-6.500	-25.640	-4.759	20.881
770	-6.500	-26.510	-4.780	21.730
731	-6.500	-27.110	-4.801	22.309
730	-6.500	-27.540	-4.821	22.719
686	-6.500	-28.000	-4.859	23.141

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	1.384	1.384
670	-5.500	-2.950	1.382	4.332
714	-5.500	-4.975	-1.048	3.927
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.991	1.009
710	-5.500	-13.000	-8.619	4.381
751	-5.500	-15.000	-7.407	7.593
753	-5.500	-17.080	-7.395	9.685
795	-5.500	-19.000	-7.383	11.617
796	-5.500	-21.100	-6.136	14.964
762	-5.500	-23.000	-5.079	17.921
803	-5.500	-24.910	-5.064	19.846
814	-5.500	-26.260	-5.046	21.214
813	-5.500	-27.190	-5.024	22.166
808	-5.500	-27.650	-5.006	22.644
807	-5.500	-28.000	-4.977	23.023

Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-0.475	-0.475
891	6.500	-3.500	-0.475	3.025
846	6.500	-7.000	-0.475	6.525
845	6.500	-11.000	-0.501	10.499
886	6.500	-15.000	-2.711	12.289
923	6.500	-19.000	-2.733	16.267
964	6.500	-21.070	-3.917	17.153
977	6.500	-23.000	-4.975	18.025
976	6.500	-25.470	-4.993	20.477
1,007	6.500	-26.770	-5.008	21.762
985	6.500	-27.430	-5.019	22.411
944	6.500	-28.000	-5.035	22.965

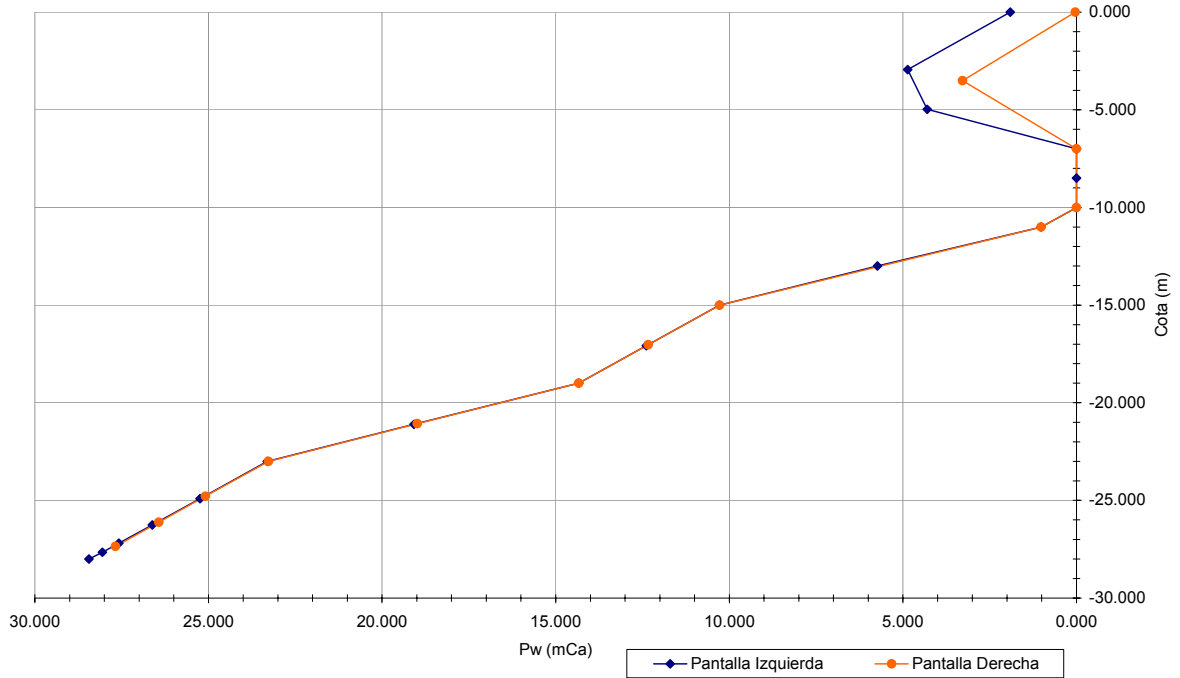
Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-0.493	-0.493
890	5.500	-3.500	-0.722	2.778
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-9.991	1.009
885	5.500	-15.000	-7.408	7.592
921	5.500	-17.030	-7.396	9.634
962	5.500	-19.000	-7.384	11.616
963	5.500	-21.070	-6.182	14.888
935	5.500	-23.000	-5.108	17.892
934	5.500	-24.790	-5.099	19.691
933	5.500	-26.120	-5.092	21.028
973	5.500	-27.350	-5.084	22.266

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO / SIFONAMIENTO

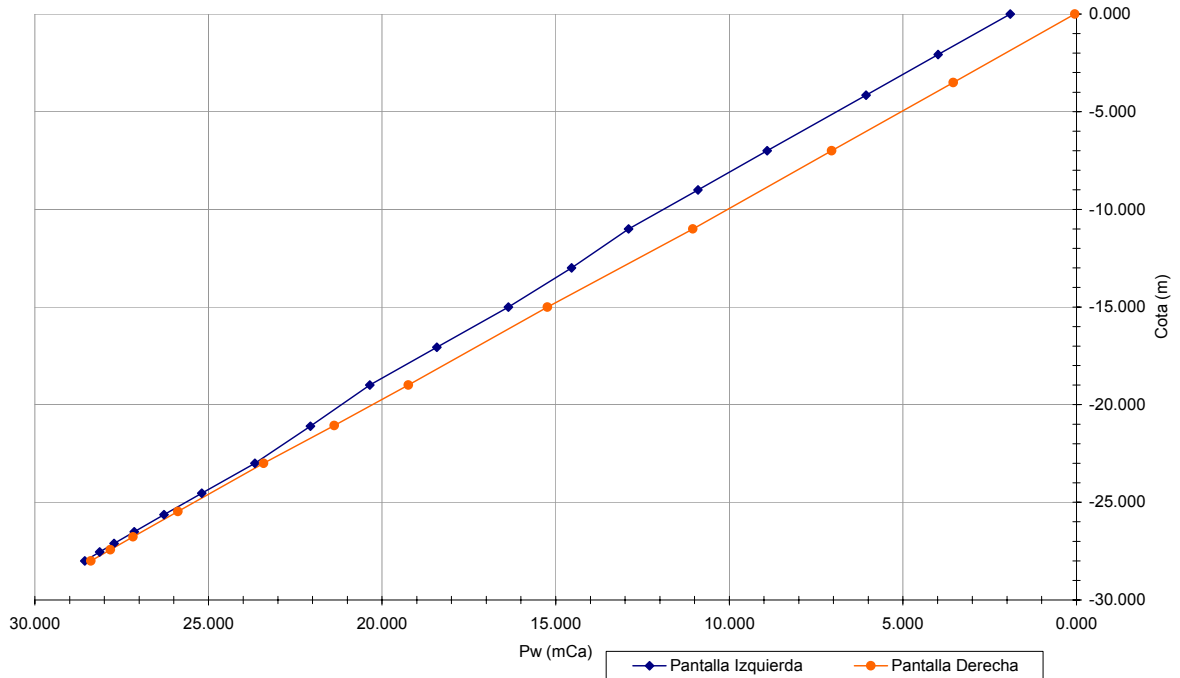
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	Gradiente bajo fondo excavación	
							FS	
711	-5.297	-10.510	-9.996	0.514	0.510	0.97	1.88	
754	-5.297	-11.000	-9.992	1.008	1.000	1.90	1.89	7.41E-03
755	-5.297	-13.000	-8.635	4.365	3.000	5.70	1.31	6.78E-01
756	-5.297	-15.000	-7.407	7.593	5.000	9.50	1.25	6.14E-01
794	-5.297	-17.080	-7.395	9.685	7.080	13.45	1.39	5.96E-03
797	-5.297	-19.000	-7.383	11.617	9.000	17.10	1.47	6.11E-03
837	-5.297	-21.100	-6.142	14.958	11.100	21.09	1.41	5.91E-01
804	-5.297	-23.000	-5.079	17.921	13.000	24.70	1.38	5.60E-01
805	-5.297	-24.950	-5.064	19.886	14.950	28.41	1.43	7.76E-03
851	-5.297	-26.340	-5.045	21.295	16.340	31.05	1.46	1.37E-02
854	-5.297	-27.300	-5.021	22.279	17.300	32.87	1.48	2.45E-02
853	-5.297	-27.690	-5.006	22.684	17.690	33.61	1.48	3.98E-02
810	-5.297	-28.010	-4.989	23.021	18.010	34.22	1.49	5.10E-02
766	-5.354	-28.300	-4.976	23.324	18.300	34.77	1.49	4.60E-02
727	-5.127	-28.640	-4.984	23.656	18.640	35.42	1.50	-2.34E-02
695	-5.113	-29.810	-5.375	24.435	19.810	37.64	1.54	-3.34E-01
612	-5.458	-31.590	-6.242	25.348	21.590	41.02	1.62	-4.87E-01
614	-5.040	-35.070	-6.946	28.124	25.070	47.63	1.69	-2.02E-01

PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantallas en el interior de la excavación



Pantallas en el exterior de la excavación



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	1.912	1.912
627	-6.500	-2.074	1.912	3.986
668	-6.500	-4.149	1.912	6.061
626	-6.500	-7.000	1.912	8.912
623	-6.500	-9.000	1.906	10.906
665	-6.500	-11.000	1.900	12.900
664	-6.500	-13.000	1.540	14.540
708	-6.500	-15.000	1.359	16.359
707	-6.500	-17.070	1.356	18.426
752	-6.500	-19.000	1.353	20.353
759	-6.500	-21.110	0.954	22.064
721	-6.500	-23.000	0.662	23.662
761	-6.500	-24.540	0.656	25.196
802	-6.500	-25.640	0.645	26.285
770	-6.500	-26.510	0.629	27.139
731	-6.500	-27.110	0.613	27.723
730	-6.500	-27.540	0.595	28.135
686	-6.500	-28.000	0.562	28.562

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	1.911	1.911
670	-5.500	-2.950	1.909	4.859
714	-5.500	-4.975	-0.674	4.301
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.984	1.016
710	-5.500	-13.000	-7.268	5.732
751	-5.500	-15.000	-4.718	10.282
753	-5.500	-17.080	-4.692	12.388
795	-5.500	-19.000	-4.667	14.333
796	-5.500	-21.100	-2.016	19.084
762	-5.500	-23.000	0.304	23.304
803	-5.500	-24.910	0.332	25.242
814	-5.500	-26.260	0.359	26.619
813	-5.500	-27.190	0.388	27.578
808	-5.500	-27.650	0.410	28.060
807	-5.500	-28.000	0.442	28.442

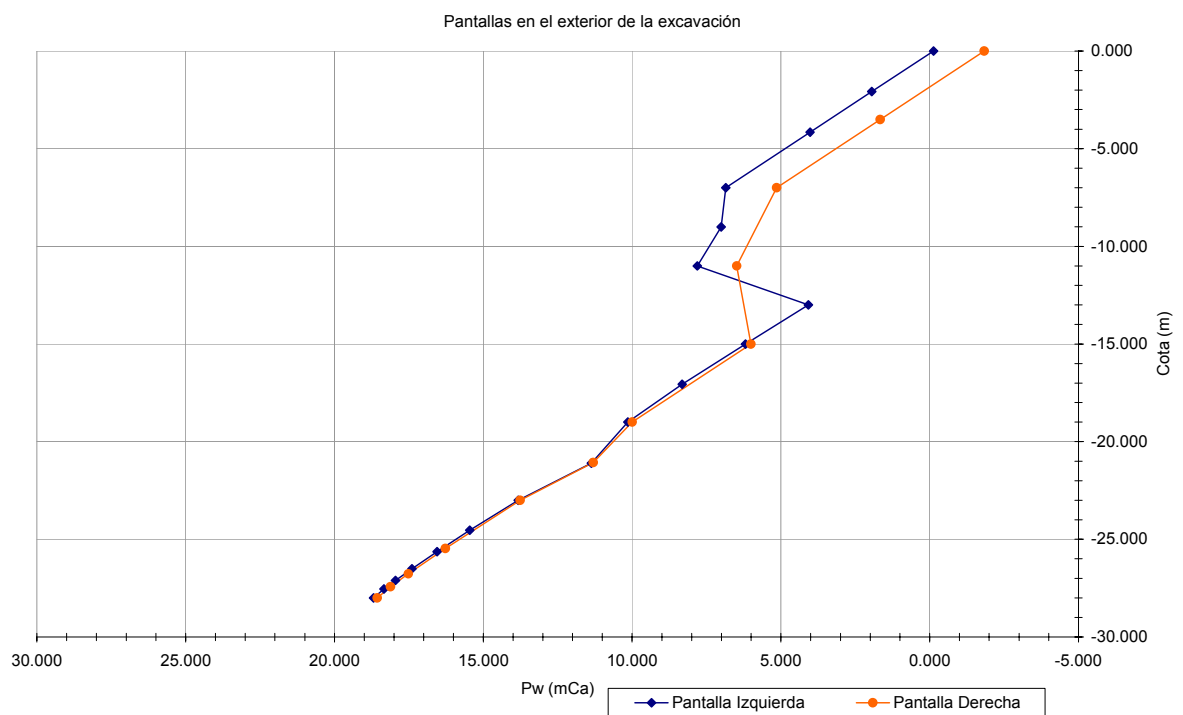
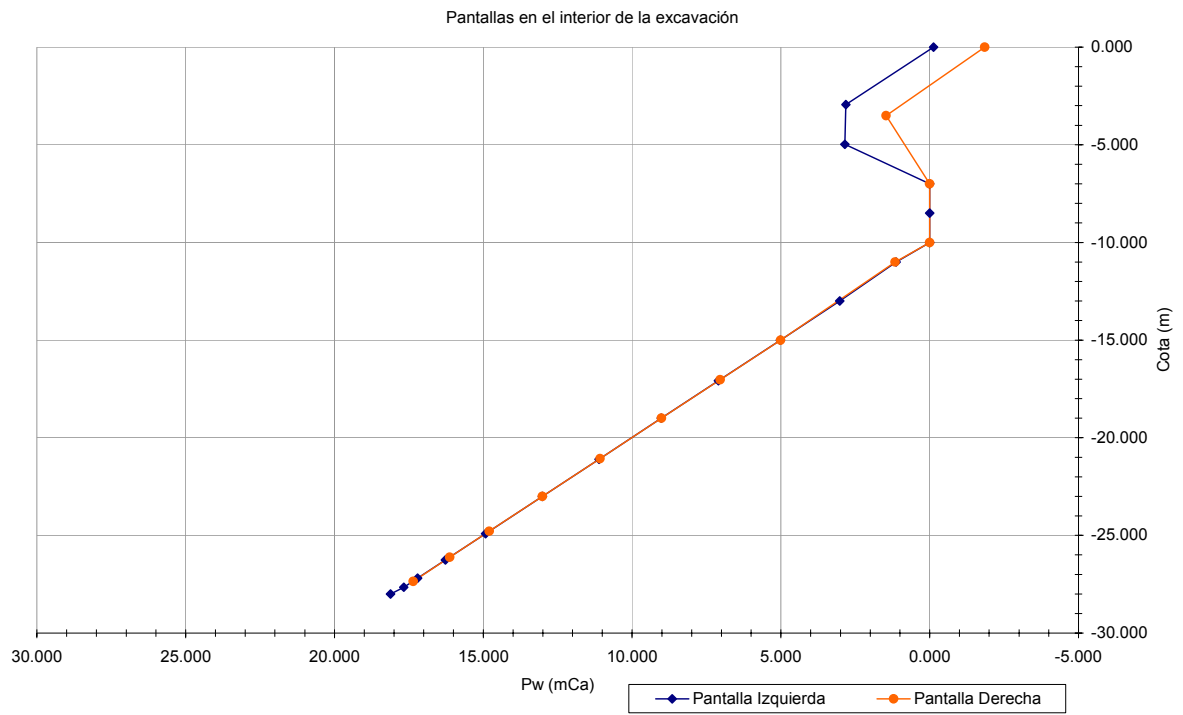
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	0.052	0.052
891	6.500	-3.500	0.052	3.552
846	6.500	-7.000	0.052	7.052
845	6.500	-11.000	0.050	11.050
886	6.500	-15.000	0.240	15.240
923	6.500	-19.000	0.242	19.242
964	6.500	-21.070	0.305	21.375
977	6.500	-23.000	0.412	23.412
976	6.500	-25.470	0.410	25.880
1,007	6.500	-26.770	0.403	27.173
985	6.500	-27.430	0.397	27.827
944	6.500	-28.000	0.385	28.385

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	0.032	0.032
890	5.500	-3.500	-0.214	3.286
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-9.984	1.016
885	5.500	-15.000	-4.720	10.280
921	5.500	-17.030	-4.694	12.336
962	5.500	-19.000	-4.669	14.331
963	5.500	-21.070	-2.085	18.985
935	5.500	-23.000	0.274	23.274
934	5.500	-24.790	0.296	25.086
933	5.500	-26.120	0.312	26.432
973	5.500	-27.350	0.329	27.679

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO / SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	Gradiente bajo fondo excavación	
							FS	
711	-5.297	-10.510	-9.992	0.518	0.510	0.97	1.87	
754	-5.297	-11.000	-9.985	1.015	1.000	1.90	1.87	1.41E-02
755	-5.297	-13.000	-7.285	5.715	3.000	5.70	1.00	1.35E+00
756	-5.297	-15.000	-4.718	10.282	5.000	9.50	0.92	1.28E+00
794	-5.297	-17.080	-4.692	12.388	7.080	13.45	1.09	1.26E-02
797	-5.297	-19.000	-4.667	14.333	9.000	17.10	1.19	1.28E-02
837	-5.297	-21.100	-2.023	19.077	11.100	21.09	1.11	1.26E+00
804	-5.297	-23.000	0.304	23.304	13.000	24.70	1.06	1.22E+00
805	-5.297	-24.950	0.332	25.282	14.950	28.41	1.12	1.45E-02
851	-5.297	-26.340	0.361	26.701	16.340	31.05	1.16	2.06E-02
854	-5.297	-27.300	0.391	27.691	17.300	32.87	1.19	3.19E-02
853	-5.297	-27.690	0.410	28.100	17.690	33.61	1.20	4.81E-02
810	-5.297	-28.010	0.429	28.439	18.010	34.22	1.20	5.95E-02
766	-5.354	-28.300	0.445	28.745	18.300	34.77	1.21	5.32E-02
727	-5.127	-28.640	0.438	29.078	18.640	35.42	1.22	-1.87E-02
695	-5.113	-29.810	0.537	30.347	19.810	37.64	1.24	8.42E-02
612	-5.458	-31.590	0.732	32.322	21.590	41.02	1.27	1.09E-01
614	-5.040	-35.070	0.870	35.940	25.070	47.63	1.33	3.96E-02

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	-0.127	-0.127
627	-6.500	-2.074	-0.128	1.946
668	-6.500	-4.149	-0.133	4.016
626	-6.500	-7.000	-0.151	6.849
623	-6.500	-9.000	-1.992	7.008
665	-6.500	-11.000	-3.188	7.812
664	-6.500	-13.000	-8.925	4.075
708	-6.500	-15.000	-8.812	6.188
707	-6.500	-17.070	-8.751	8.319
752	-6.500	-19.000	-8.858	10.142
759	-6.500	-21.110	-9.743	11.367
721	-6.500	-23.000	-9.170	13.830
761	-6.500	-24.540	-9.083	15.457
802	-6.500	-25.640	-9.086	16.554
770	-6.500	-26.510	-9.115	17.395
731	-6.500	-27.110	-9.158	17.952
730	-6.500	-27.540	-9.207	18.333
686	-6.500	-28.000	-9.310	18.690

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	-0.127	-0.127
670	-5.500	-2.950	-0.132	2.818
714	-5.500	-4.975	-2.125	2.850
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.870	1.130
710	-5.500	-13.000	-9.977	3.023
751	-5.500	-15.000	-9.981	5.019
753	-5.500	-17.080	-9.983	7.097
795	-5.500	-19.000	-9.982	9.018
796	-5.500	-21.100	-9.994	11.106
762	-5.500	-23.000	-9.986	13.014
803	-5.500	-24.910	-9.983	14.927
814	-5.500	-26.260	-9.986	16.274
813	-5.500	-27.190	-9.987	17.203
808	-5.500	-27.650	-9.980	17.670
807	-5.500	-28.000	-9.888	18.112

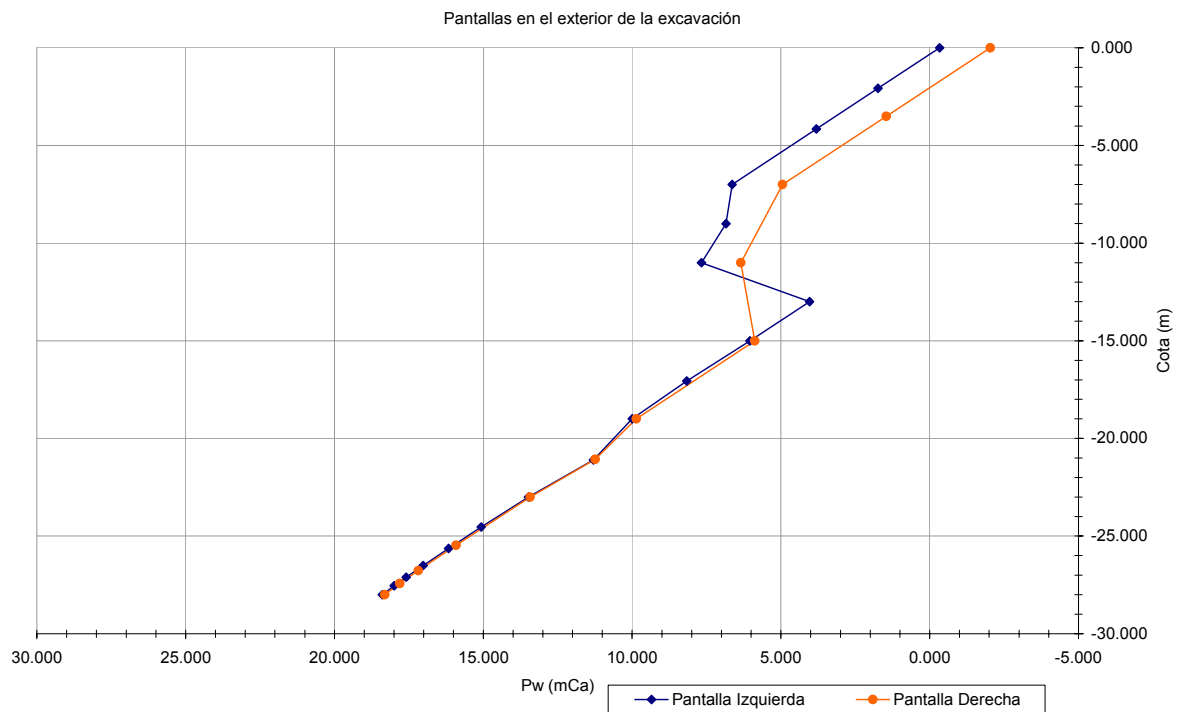
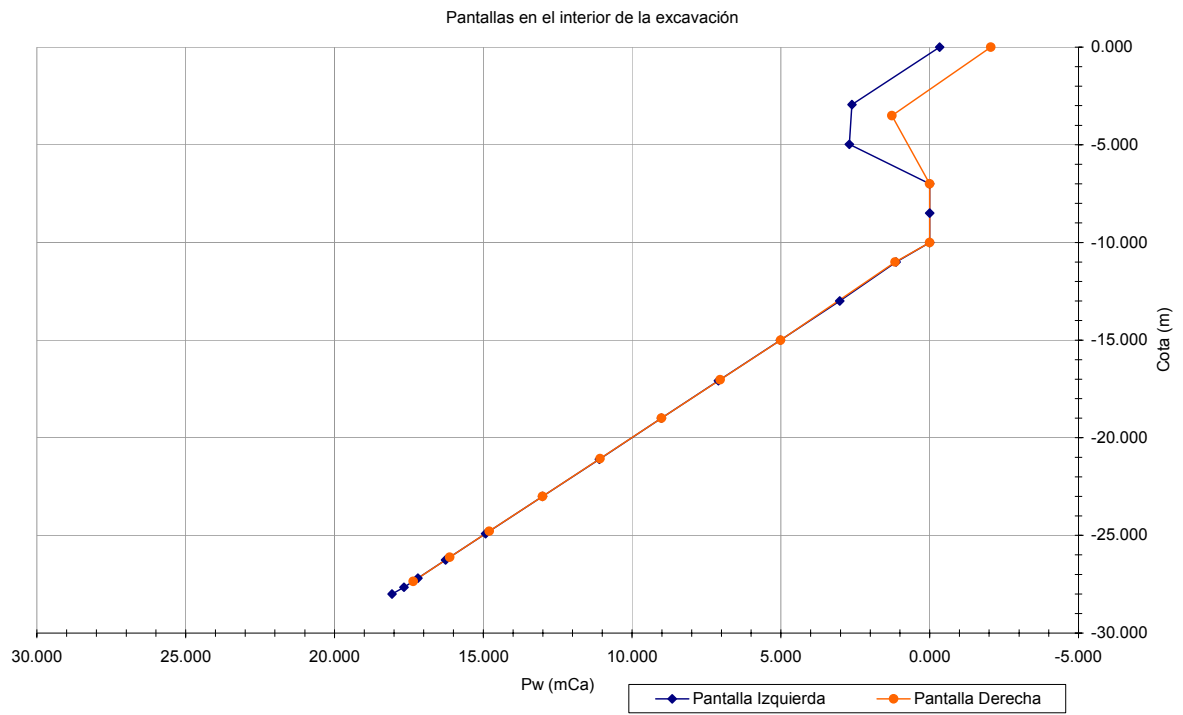
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-1.836	-1.836
891	6.500	-3.500	-1.840	1.660
846	6.500	-7.000	-1.855	5.145
845	6.500	-11.000	-4.517	6.483
886	6.500	-15.000	-8.993	6.007
923	6.500	-19.000	-9.006	9.994
964	6.500	-21.070	-9.764	11.306
977	6.500	-23.000	-9.242	13.758
976	6.500	-25.470	-9.199	16.271
1,007	6.500	-26.770	-9.254	17.516
985	6.500	-27.430	-9.318	18.112
944	6.500	-28.000	-9.433	18.567

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-1.851	-1.851
890	5.500	-3.500	-2.035	1.465
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-9.833	1.167
885	5.500	-15.000	-9.986	5.014
921	5.500	-17.030	-9.986	7.044
962	5.500	-19.000	-9.984	9.016
963	5.500	-21.070	-9.995	11.075
935	5.500	-23.000	-9.987	13.013
934	5.500	-24.790	-9.987	14.803
933	5.500	-26.120	-9.990	16.130
973	5.500	-27.350	-9.994	17.356

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO / SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-9.964	0.546	0.510	0.97	1.77	
754	-5.297	-11.000	-9.968	1.032	1.000	1.90	1.84	-7.55E-03
755	-5.297	-13.000	-10.000	3.000	3.000	5.70	1.90	-1.61E-02
756	-5.297	-15.000	-9.993	5.007	5.000	9.50	1.90	3.21E-03
794	-5.297	-17.080	-9.991	7.089	7.080	13.45	1.90	9.40E-04
797	-5.297	-19.000	-9.994	9.006	9.000	17.10	1.90	-1.23E-03
837	-5.297	-21.100	-10.000	11.100	11.100	21.09	1.90	-2.95E-03
804	-5.297	-23.000	-9.994	13.006	13.000	24.70	1.90	3.20E-03
805	-5.297	-24.950	-9.991	14.959	14.950	28.41	1.90	1.59E-03
851	-5.297	-26.340	-9.988	16.352	16.340	31.05	1.90	1.78E-03
854	-5.297	-27.300	-9.983	17.317	17.300	32.87	1.90	5.10E-03
853	-5.297	-27.690	-9.964	17.726	17.690	33.61	1.90	5.00E-02
810	-5.297	-28.010	-9.903	18.107	18.010	34.22	1.89	1.89E-01
766	-5.354	-28.300	-9.806	18.494	18.300	34.77	1.88	3.36E-01
727	-5.127	-28.640	-9.784	18.856	18.640	35.42	1.88	6.45E-02
695	-5.113	-29.810	-8.206	21.604	19.810	37.64	1.74	1.35E+00
612	-5.458	-31.590	-4.942	26.648	21.590	41.02	1.54	1.83E+00
614	-5.040	-35.070	-2.442	32.628	25.070	47.63	1.46	7.18E-01

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	-0.335	-0.335
627	-6.500	-2.074	-0.336	1.738
668	-6.500	-4.149	-0.340	3.809
626	-6.500	-7.000	-0.359	6.641
623	-6.500	-9.000	-2.159	6.841
665	-6.500	-11.000	-3.331	7.669
664	-6.500	-13.000	-8.964	4.036
708	-6.500	-15.000	-8.957	6.043
707	-6.500	-17.070	-8.907	8.163
752	-6.500	-19.000	-9.002	9.998
759	-6.500	-21.110	-9.809	11.301
721	-6.500	-23.000	-9.519	13.481
761	-6.500	-24.540	-9.470	15.070
802	-6.500	-25.640	-9.474	16.166
770	-6.500	-26.510	-9.492	17.018
731	-6.500	-27.110	-9.518	17.592
730	-6.500	-27.540	-9.548	17.992
686	-6.500	-28.000	-9.608	18.392

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	-0.335	-0.335
670	-5.500	-2.950	-0.339	2.611
714	-5.500	-4.975	-2.273	2.702
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.873	1.127
710	-5.500	-13.000	-9.978	3.022
751	-5.500	-15.000	-9.984	5.016
753	-5.500	-17.080	-9.985	7.095
795	-5.500	-19.000	-9.984	9.016
796	-5.500	-21.100	-9.996	11.104
762	-5.500	-23.000	-9.992	13.008
803	-5.500	-24.910	-9.991	14.919
814	-5.500	-26.260	-9.992	16.268
813	-5.500	-27.190	-9.993	17.197
808	-5.500	-27.650	-9.989	17.661
807	-5.500	-28.000	-9.938	18.062

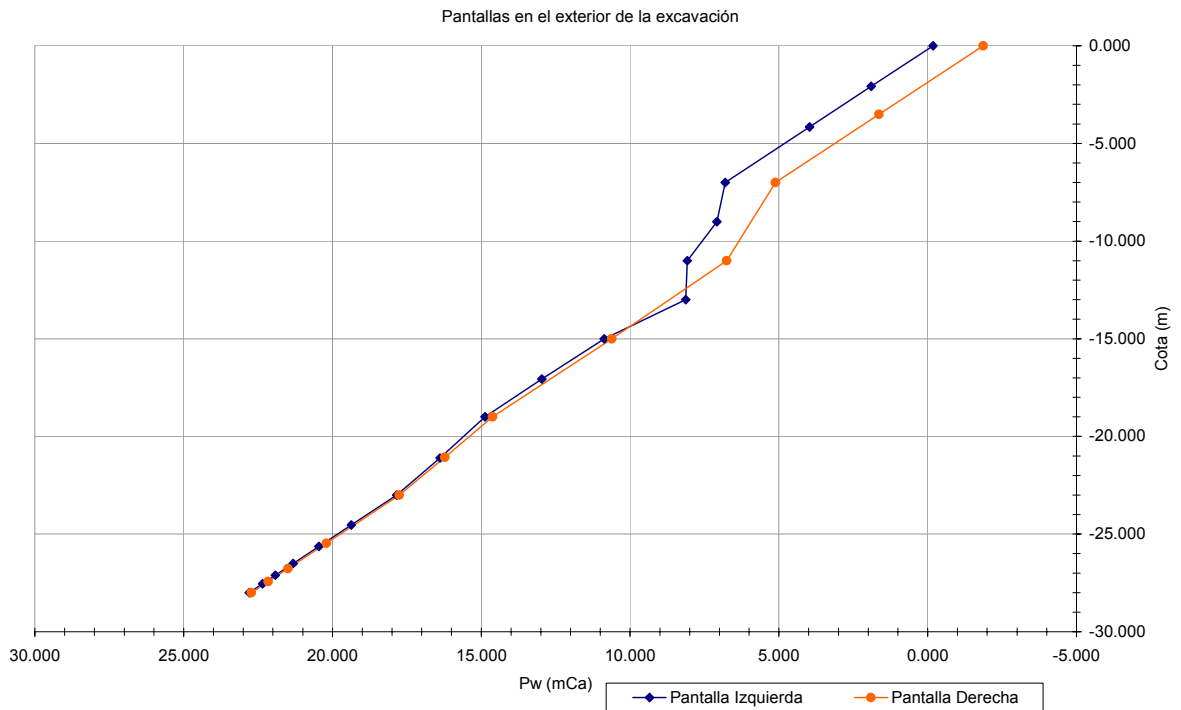
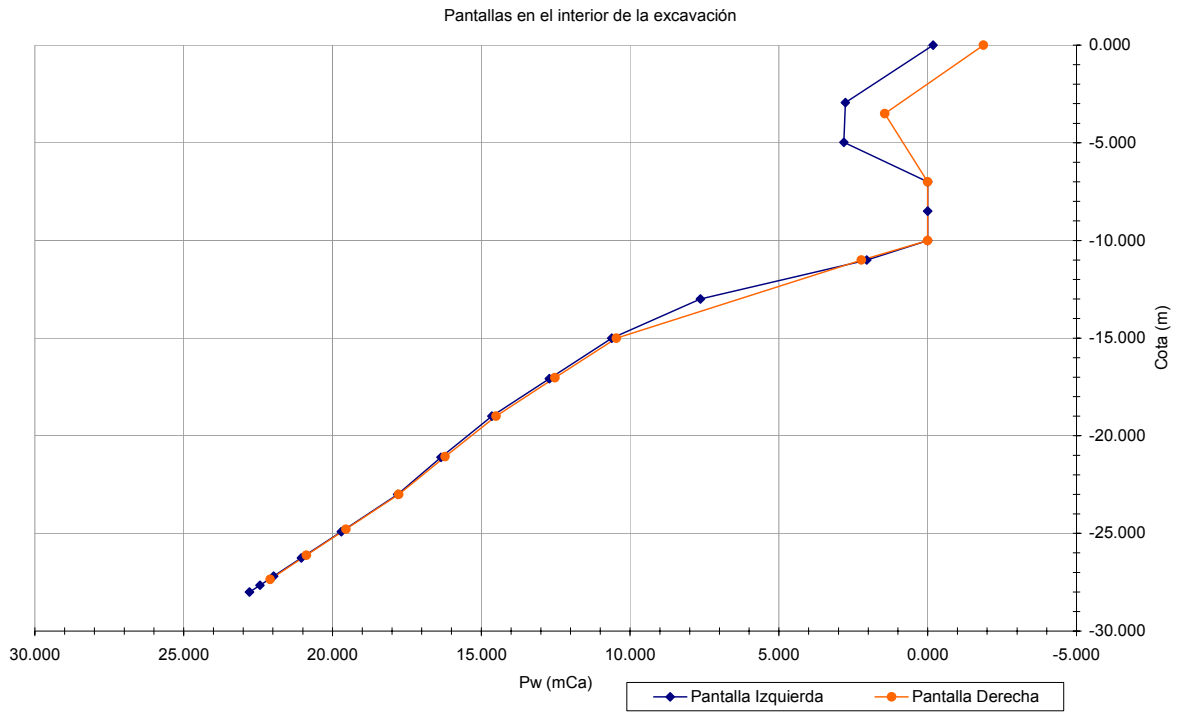
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-2.039	-2.039
891	6.500	-3.500	-2.042	1.458
846	6.500	-7.000	-2.057	4.943
845	6.500	-11.000	-4.655	6.345
886	6.500	-15.000	-9.123	5.877
923	6.500	-19.000	-9.145	9.855
964	6.500	-21.070	-9.829	11.241
977	6.500	-23.000	-9.577	13.423
976	6.500	-25.470	-9.556	15.914
1,007	6.500	-26.770	-9.589	17.181
985	6.500	-27.430	-9.625	17.805
944	6.500	-28.000	-9.690	18.310

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-2.053	-2.053
890	5.500	-3.500	-2.230	1.270
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-9.838	1.162
885	5.500	-15.000	-9.988	5.012
921	5.500	-17.030	-9.988	7.042
962	5.500	-19.000	-9.987	9.013
963	5.500	-21.070	-9.996	11.074
935	5.500	-23.000	-9.993	13.007
934	5.500	-24.790	-9.993	14.797
933	5.500	-26.120	-9.995	16.125
973	5.500	-27.350	-9.997	17.353

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO / SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	Gradiente bajo fondo excavación	
							FS	
711	-5.297	-10.510	-9.965	0.545	0.510	0.97	1.78	
754	-5.297	-11.000	-9.968	1.032	1.000	1.90	1.84	-7.39E-03
755	-5.297	-13.000	-10.000	3.000	3.000	5.70	1.90	-1.57E-02
756	-5.297	-15.000	-9.994	5.006	5.000	9.50	1.90	2.80E-03
794	-5.297	-17.080	-9.992	7.088	7.080	13.45	1.90	8.13E-04
797	-5.297	-19.000	-9.995	9.005	9.000	17.10	1.90	-1.08E-03
837	-5.297	-21.100	-10.000	11.100	11.100	21.09	1.90	-2.59E-03
804	-5.297	-23.000	-9.997	13.003	13.000	24.70	1.90	1.77E-03
805	-5.297	-24.950	-9.995	14.955	14.950	28.41	1.90	8.54E-04
851	-5.297	-26.340	-9.994	16.346	16.340	31.05	1.90	8.82E-04
854	-5.297	-27.300	-9.991	17.309	17.300	32.87	1.90	2.70E-03
853	-5.297	-27.690	-9.980	17.710	17.690	33.61	1.90	2.75E-02
810	-5.297	-28.010	-9.947	18.063	18.010	34.22	1.89	1.05E-01
766	-5.354	-28.300	-9.893	18.407	18.300	34.77	1.89	1.86E-01
727	-5.127	-28.640	-9.882	18.758	18.640	35.42	1.89	3.10E-02
695	-5.113	-29.810	-9.244	20.566	19.810	37.64	1.83	5.45E-01
612	-5.458	-31.590	-7.949	23.641	21.590	41.02	1.74	7.28E-01
614	-5.040	-35.070	-6.973	28.097	25.070	47.63	1.70	2.80E-01

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	-0.175	-0.175
627	-6.500	-2.074	-0.176	1.898
668	-6.500	-4.149	-0.181	3.968
626	-6.500	-7.000	-0.199	6.801
623	-6.500	-9.000	-1.921	7.079
665	-6.500	-11.000	-2.922	8.078
664	-6.500	-13.000	-4.870	8.130
708	-6.500	-15.000	-4.129	10.871
707	-6.500	-17.070	-4.100	12.970
752	-6.500	-19.000	-4.128	14.872
759	-6.500	-21.110	-4.723	16.387
721	-6.500	-23.000	-5.158	17.842
761	-6.500	-24.540	-5.173	19.367
802	-6.500	-25.640	-5.180	20.460
770	-6.500	-26.510	-5.186	21.324
731	-6.500	-27.110	-5.190	21.920
730	-6.500	-27.540	-5.194	22.346
686	-6.500	-28.000	-5.200	22.800

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	-0.175	-0.175
670	-5.500	-2.950	-0.180	2.770
714	-5.500	-4.975	-2.159	2.816
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-8.950	2.050
710	-5.500	-13.000	-5.363	7.637
751	-5.500	-15.000	-4.383	10.617
753	-5.500	-17.080	-4.371	12.709
795	-5.500	-19.000	-4.359	14.641
796	-5.500	-21.100	-4.741	16.359
762	-5.500	-23.000	-5.185	17.815
803	-5.500	-24.910	-5.204	19.706
814	-5.500	-26.260	-5.211	21.049
813	-5.500	-27.190	-5.215	21.975
808	-5.500	-27.650	-5.216	22.434
807	-5.500	-28.000	-5.215	22.785

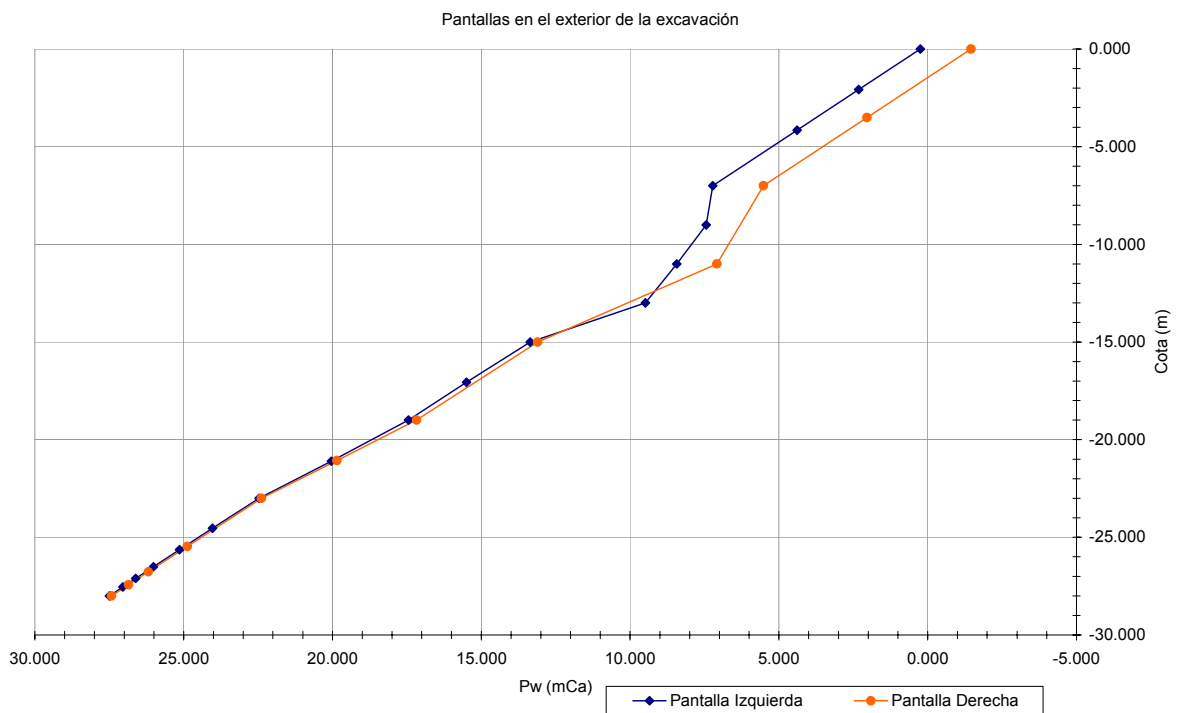
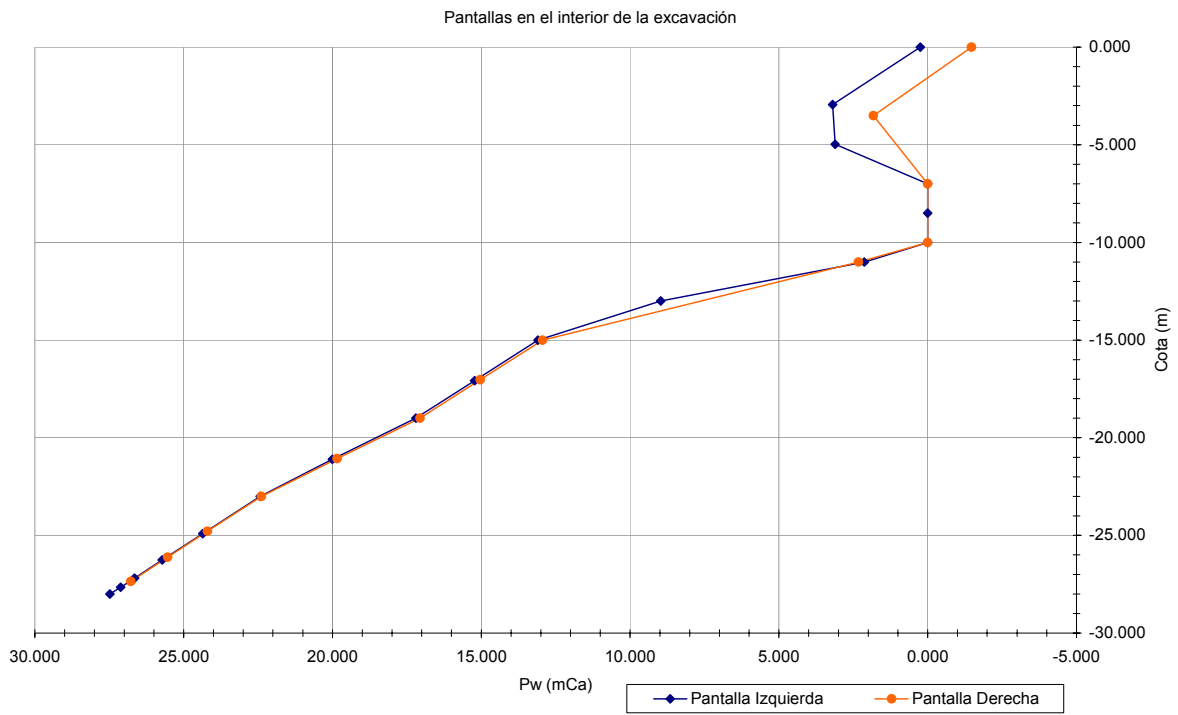
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-1.861	-1.861
891	6.500	-3.500	-1.865	1.635
846	6.500	-7.000	-1.879	5.121
845	6.500	-11.000	-4.248	6.752
886	6.500	-15.000	-4.382	10.618
923	6.500	-19.000	-4.382	14.618
964	6.500	-21.070	-4.848	16.222
977	6.500	-23.000	-5.249	17.751
976	6.500	-25.470	-5.266	20.204
1,007	6.500	-26.770	-5.273	21.497
985	6.500	-27.430	-5.275	22.155
944	6.500	-28.000	-5.276	22.724

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-1.876	-1.876
890	5.500	-3.500	-2.059	1.441
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-8.773	2.227
885	5.500	-15.000	-4.534	10.466
921	5.500	-17.030	-4.503	12.527
962	5.500	-19.000	-4.492	14.508
963	5.500	-21.070	-4.855	16.215
935	5.500	-23.000	-5.231	17.769
934	5.500	-24.790	-5.243	19.547
933	5.500	-26.120	-5.251	20.869
973	5.500	-27.350	-5.258	22.092

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO / SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	Gradiente bajo fondo excavación	
							FS	
711	-5.297	-10.510	-9.625	0.885	0.510	0.97	1.09	
754	-5.297	-11.000	-9.452	1.548	1.000	1.90	1.23	3.51E-01
755	-5.297	-13.000	-5.689	7.311	3.000	5.70	0.78	1.88E+00
756	-5.297	-15.000	-4.388	10.612	5.000	9.50	0.90	6.50E-01
794	-5.297	-17.080	-4.376	12.704	7.080	13.45	1.06	5.91E-03
797	-5.297	-19.000	-4.367	14.633	9.000	17.10	1.17	4.79E-03
837	-5.297	-21.100	-4.752	16.348	11.100	21.09	1.29	-1.83E-01
804	-5.297	-23.000	-5.188	17.812	13.000	24.70	1.39	-2.30E-01
805	-5.297	-24.950	-5.205	19.745	14.950	28.41	1.44	-8.50E-03
851	-5.297	-26.340	-5.212	21.128	16.340	31.05	1.47	-5.24E-03
854	-5.297	-27.300	-5.215	22.085	17.300	32.87	1.49	-3.50E-03
853	-5.297	-27.690	-5.216	22.474	17.690	33.61	1.50	-1.79E-03
810	-5.297	-28.010	-5.216	22.794	18.010	34.22	1.50	-4.68E-04
766	-5.354	-28.300	-5.216	23.084	18.300	34.77	1.51	6.69E-04
727	-5.127	-28.640	-5.219	23.421	18.640	35.42	1.51	-7.31E-03
695	-5.113	-29.810	-5.572	24.238	19.810	37.64	1.55	-3.02E-01
612	-5.458	-31.590	-6.340	25.250	21.590	41.02	1.62	-4.31E-01
614	-5.040	-35.070	-6.951	28.119	25.070	47.63	1.69	-1.76E-01

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	0.247	0.247
627	-6.500	-2.074	0.246	2.320
668	-6.500	-4.149	0.241	4.390
626	-6.500	-7.000	0.222	7.222
623	-6.500	-9.000	-1.558	7.442
665	-6.500	-11.000	-2.569	8.431
664	-6.500	-13.000	-3.511	9.489
708	-6.500	-15.000	-1.641	13.359
707	-6.500	-17.070	-1.572	15.498
752	-6.500	-19.000	-1.560	17.440
759	-6.500	-21.110	-1.073	20.037
721	-6.500	-23.000	-0.529	22.471
761	-6.500	-24.540	-0.506	24.034
802	-6.500	-25.640	-0.499	25.141
770	-6.500	-26.510	-0.497	26.013
731	-6.500	-27.110	-0.496	26.614
730	-6.500	-27.540	-0.497	27.043
686	-6.500	-28.000	-0.501	27.499

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	0.247	0.247
670	-5.500	-2.950	0.242	3.192
714	-5.500	-4.975	-1.860	3.115
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-8.869	2.131
710	-5.500	-13.000	-4.026	8.974
751	-5.500	-15.000	-1.906	13.094
753	-5.500	-17.080	-1.855	15.225
795	-5.500	-19.000	-1.806	17.194
796	-5.500	-21.100	-1.095	20.005
762	-5.500	-23.000	-0.569	22.431
803	-5.500	-24.910	-0.551	24.359
814	-5.500	-26.260	-0.542	25.718
813	-5.500	-27.190	-0.535	26.655
808	-5.500	-27.650	-0.531	27.119
807	-5.500	-28.000	-0.525	27.475

Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-1.459	-1.459
891	6.500	-3.500	-1.463	2.037
846	6.500	-7.000	-1.479	5.521
845	6.500	-11.000	-3.920	7.080
886	6.500	-15.000	-1.890	13.110
923	6.500	-19.000	-1.824	17.176
964	6.500	-21.070	-1.220	19.850
977	6.500	-23.000	-0.614	22.386
976	6.500	-25.470	-0.591	24.879
1,007	6.500	-26.770	-0.583	26.187
985	6.500	-27.430	-0.580	26.850
944	6.500	-28.000	-0.578	27.422

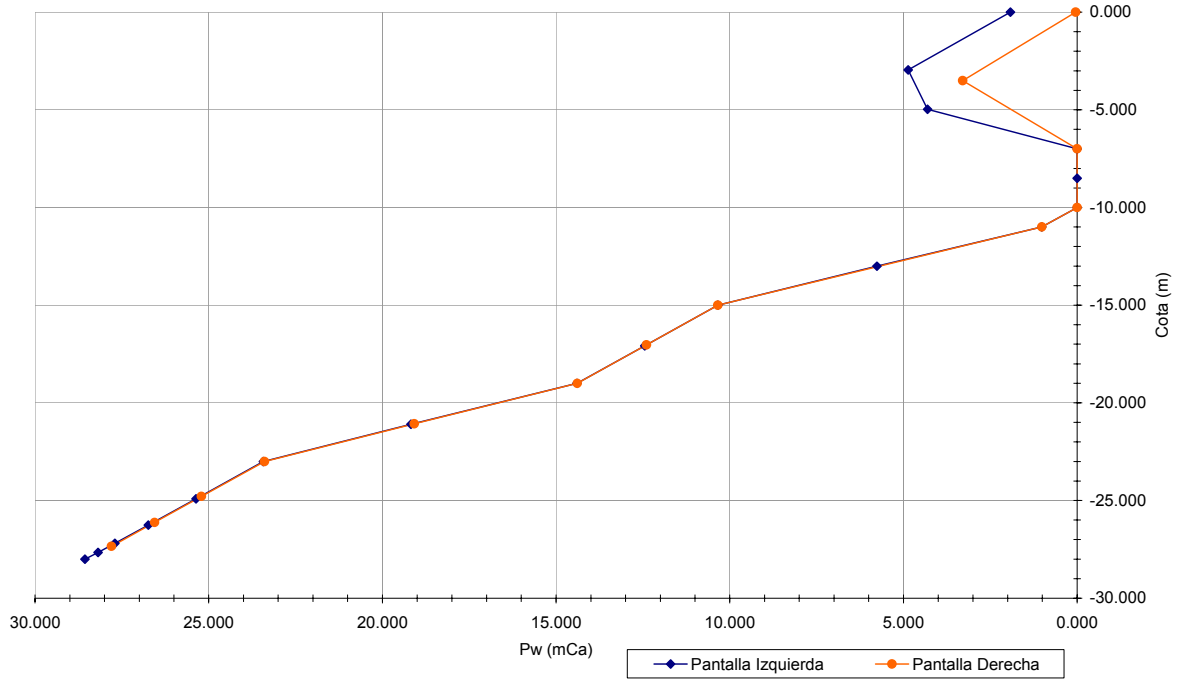
Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-1.475	-1.475
890	5.500	-3.500	-1.673	1.827
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-8.677	2.323
885	5.500	-15.000	-2.058	12.942
921	5.500	-17.030	-1.990	15.040
962	5.500	-19.000	-1.938	17.062
963	5.500	-21.070	-1.228	19.842
935	5.500	-23.000	-0.613	22.387
934	5.500	-24.790	-0.593	24.197
933	5.500	-26.120	-0.584	25.536
973	5.500	-27.350	-0.578	26.772

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO / SIFONAMIENTO

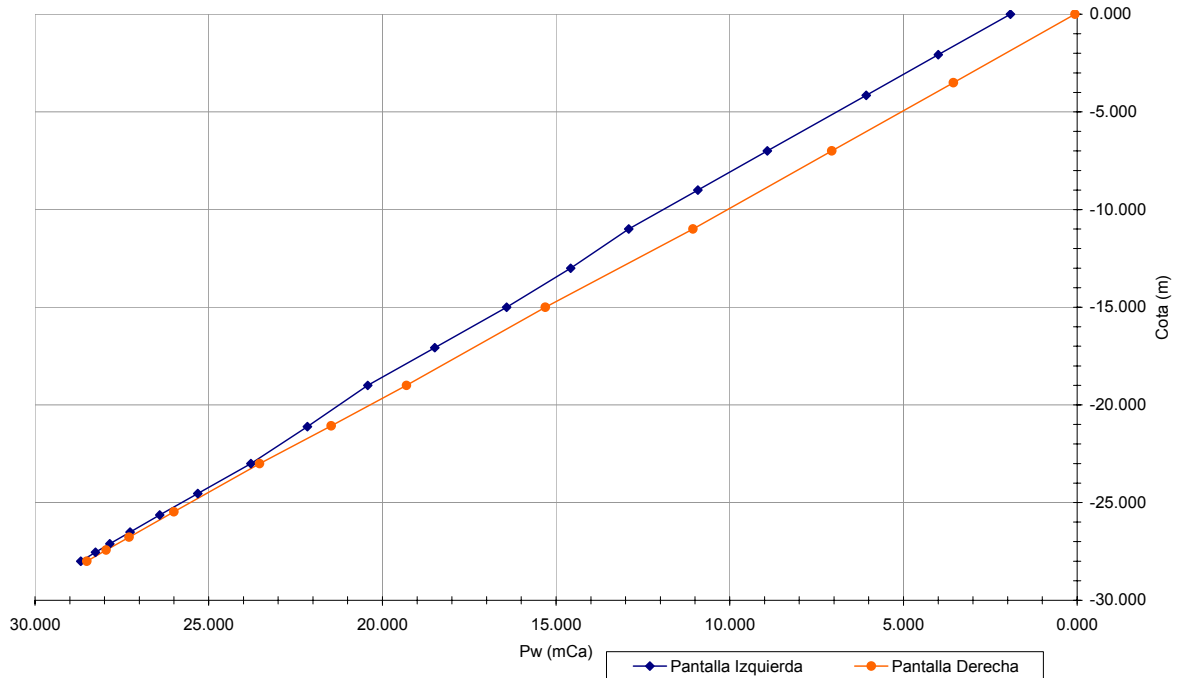
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	Gradiente bajo fondo excavación	
							FS	
711	-5.297	-10.510	-9.595	0.915	0.510	0.97	1.06	
754	-5.297	-11.000	-9.408	1.592	1.000	1.90	1.19	3.82E-01
755	-5.297	-13.000	-4.367	8.633	3.000	5.70	0.66	2.52E+00
756	-5.297	-15.000	-1.907	13.093	5.000	9.50	0.73	1.23E+00
794	-5.297	-17.080	-1.860	15.220	7.080	13.45	0.88	2.22E-02
797	-5.297	-19.000	-1.819	17.181	9.000	17.10	1.00	2.17E-02
837	-5.297	-21.100	-1.107	19.993	11.100	21.09	1.05	3.39E-01
804	-5.297	-23.000	-0.568	22.432	13.000	24.70	1.10	2.84E-01
805	-5.297	-24.950	-0.552	24.398	14.950	28.41	1.16	8.13E-03
851	-5.297	-26.340	-0.543	25.797	16.340	31.05	1.20	6.61E-03
854	-5.297	-27.300	-0.535	26.765	17.300	32.87	1.23	7.52E-03
853	-5.297	-27.690	-0.531	27.159	17.690	33.61	1.24	1.01E-02
810	-5.297	-28.010	-0.528	27.482	18.010	34.22	1.25	1.19E-02
766	-5.354	-28.300	-0.524	27.776	18.300	34.77	1.25	1.16E-02
727	-5.127	-28.640	-0.525	28.115	18.640	35.42	1.26	-3.84E-03
695	-5.113	-29.810	-0.363	29.447	19.810	37.64	1.28	1.39E-01
612	-5.458	-31.590	-0.014	31.576	21.590	41.02	1.30	1.96E-01
614	-5.040	-35.070	0.258	35.328	25.070	47.63	1.35	7.84E-02

PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantallas en el interior de la excavación



Pantallas en el exterior de la excavación



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	1.922	1.922
627	-6.500	-2.074	1.922	3.996
668	-6.500	-4.149	1.922	6.071
626	-6.500	-7.000	1.922	8.922
623	-6.500	-9.000	1.916	10.916
665	-6.500	-11.000	1.911	12.911
664	-6.500	-13.000	1.579	14.579
708	-6.500	-15.000	1.424	16.424
707	-6.500	-17.070	1.422	18.492
752	-6.500	-19.000	1.419	20.419
759	-6.500	-21.110	1.050	22.160
721	-6.500	-23.000	0.784	23.784
761	-6.500	-24.540	0.778	25.318
802	-6.500	-25.640	0.767	26.407
770	-6.500	-26.510	0.752	27.262
731	-6.500	-27.110	0.735	27.845
730	-6.500	-27.540	0.718	28.258
686	-6.500	-28.000	0.684	28.684

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	1.922	1.922
670	-5.500	-2.950	1.920	4.870
714	-5.500	-4.975	-0.667	4.308
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.984	1.016
710	-5.500	-13.000	-7.237	5.763
751	-5.500	-15.000	-4.657	10.343
753	-5.500	-17.080	-4.631	12.449
795	-5.500	-19.000	-4.606	14.394
796	-5.500	-21.100	-1.923	19.177
762	-5.500	-23.000	0.426	23.426
803	-5.500	-24.910	0.454	25.364
814	-5.500	-26.260	0.481	26.741
813	-5.500	-27.190	0.511	27.701
808	-5.500	-27.650	0.532	28.182
807	-5.500	-28.000	0.565	28.565

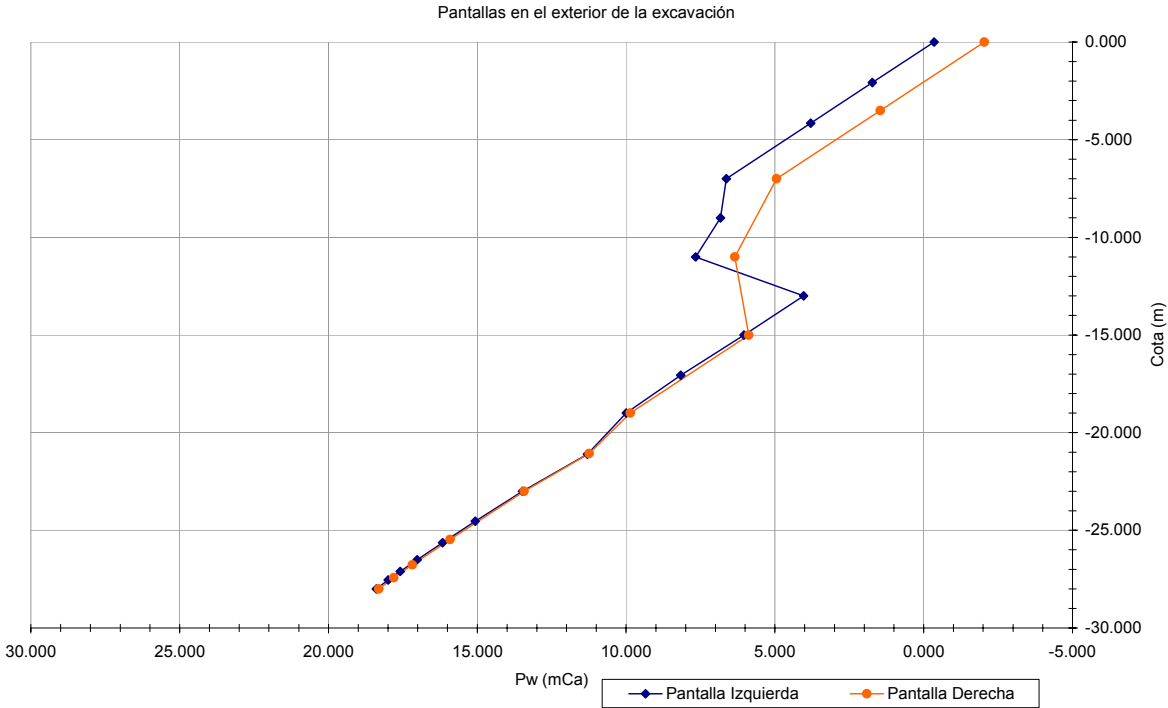
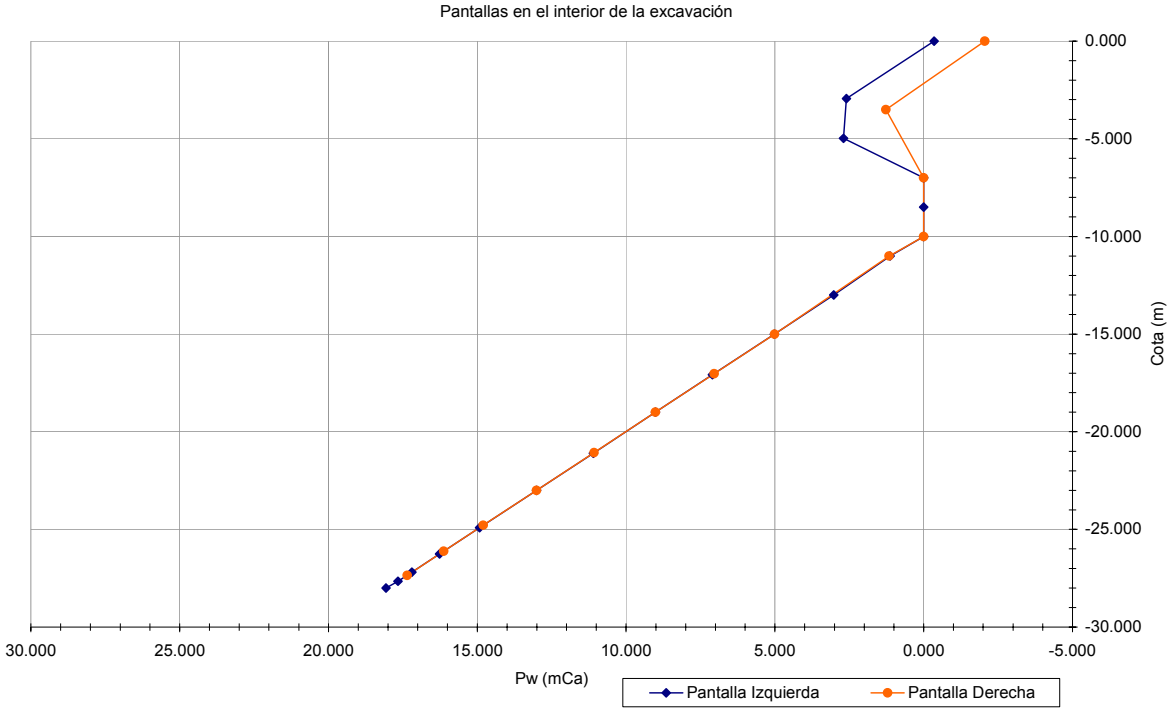
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	0.064	0.064
891	6.500	-3.500	0.064	3.564
846	6.500	-7.000	0.064	7.064
845	6.500	-11.000	0.062	11.062
886	6.500	-15.000	0.306	15.306
923	6.500	-19.000	0.309	19.309
964	6.500	-21.070	0.401	21.471
977	6.500	-23.000	0.534	23.534
976	6.500	-25.470	0.532	26.002
1,007	6.500	-26.770	0.526	27.296
985	6.500	-27.430	0.519	27.949
944	6.500	-28.000	0.508	28.508

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	0.044	0.044
890	5.500	-3.500	-0.203	3.297
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-9.984	1.016
885	5.500	-15.000	-4.659	10.341
921	5.500	-17.030	-4.633	12.397
962	5.500	-19.000	-4.607	14.393
963	5.500	-21.070	-1.992	19.078
935	5.500	-23.000	0.396	23.396
934	5.500	-24.790	0.418	25.208
933	5.500	-26.120	0.434	26.554
973	5.500	-27.350	0.451	27.801

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO / SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	Gradiente bajo fondo excavación	
							FS	
711	-5.297	-10.510	-9.992	0.518	0.510	0.97	1.87	
754	-5.297	-11.000	-9.985	1.015	1.000	1.90	1.87	1.43E-02
755	-5.297	-13.000	-7.254	5.746	3.000	5.70	0.99	1.37E+00
756	-5.297	-15.000	-4.658	10.342	5.000	9.50	0.92	1.30E+00
794	-5.297	-17.080	-4.631	12.449	7.080	13.45	1.08	1.28E-02
797	-5.297	-19.000	-4.606	14.394	9.000	17.10	1.19	1.30E-02
837	-5.297	-21.100	-1.929	19.171	11.100	21.09	1.10	1.27E+00
804	-5.297	-23.000	0.426	23.426	13.000	24.70	1.05	1.24E+00
805	-5.297	-24.950	0.454	25.404	14.950	28.41	1.12	1.46E-02
851	-5.297	-26.340	0.483	26.823	16.340	31.05	1.16	2.08E-02
854	-5.297	-27.300	0.514	27.814	17.300	32.87	1.18	3.20E-02
853	-5.297	-27.690	0.533	28.223	17.690	33.61	1.19	4.83E-02
810	-5.297	-28.010	0.552	28.562	18.010	34.22	1.20	5.97E-02
766	-5.354	-28.300	0.567	28.867	18.300	34.77	1.20	5.33E-02
727	-5.127	-28.640	0.561	29.201	18.640	35.42	1.21	-1.86E-02
695	-5.113	-29.810	0.671	30.481	19.810	37.64	1.23	9.38E-02
612	-5.458	-31.590	0.890	32.480	21.590	41.02	1.26	1.23E-01
614	-5.040	-35.070	1.047	36.117	25.070	47.63	1.32	4.51E-02

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	-0.347	-0.347
627	-6.500	-2.074	-0.348	1.726
668	-6.500	-4.149	-0.353	3.796
626	-6.500	-7.000	-0.371	6.629
623	-6.500	-9.000	-2.169	6.831
665	-6.500	-11.000	-3.340	7.660
664	-6.500	-13.000	-8.966	4.034
708	-6.500	-15.000	-8.958	6.042
707	-6.500	-17.070	-8.909	8.161
752	-6.500	-19.000	-9.004	9.996
759	-6.500	-21.110	-9.809	11.301
721	-6.500	-23.000	-9.519	13.481
761	-6.500	-24.540	-9.470	15.070
802	-6.500	-25.640	-9.474	16.166
770	-6.500	-26.510	-9.492	17.018
731	-6.500	-27.110	-9.518	17.592
730	-6.500	-27.540	-9.548	17.992
686	-6.500	-28.000	-9.609	18.391

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	-0.347	-0.347
670	-5.500	-2.950	-0.352	2.598
714	-5.500	-4.975	-2.281	2.694
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-9.873	1.127
710	-5.500	-13.000	-9.978	3.022
751	-5.500	-15.000	-9.984	5.016
753	-5.500	-17.080	-9.985	7.095
795	-5.500	-19.000	-9.984	9.016
796	-5.500	-21.100	-9.996	11.104
762	-5.500	-23.000	-9.992	13.008
803	-5.500	-24.910	-9.991	14.919
814	-5.500	-26.260	-9.992	16.268
813	-5.500	-27.190	-9.993	17.197
808	-5.500	-27.650	-9.989	17.661
807	-5.500	-28.000	-9.938	18.062

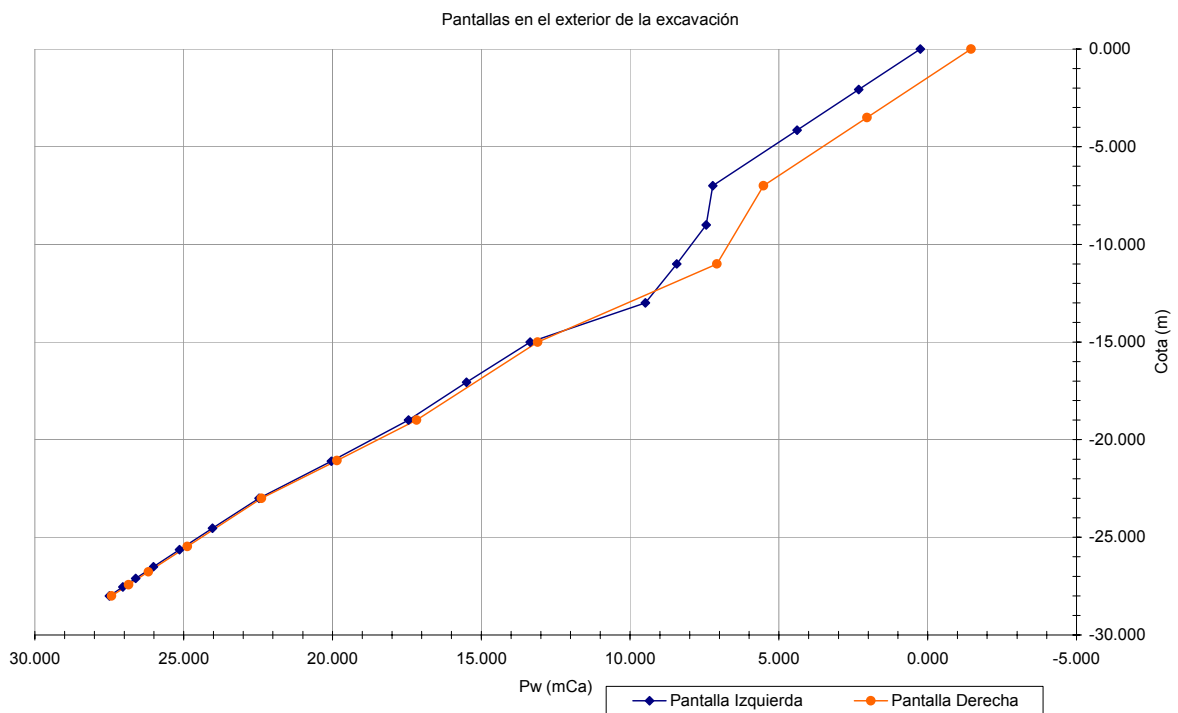
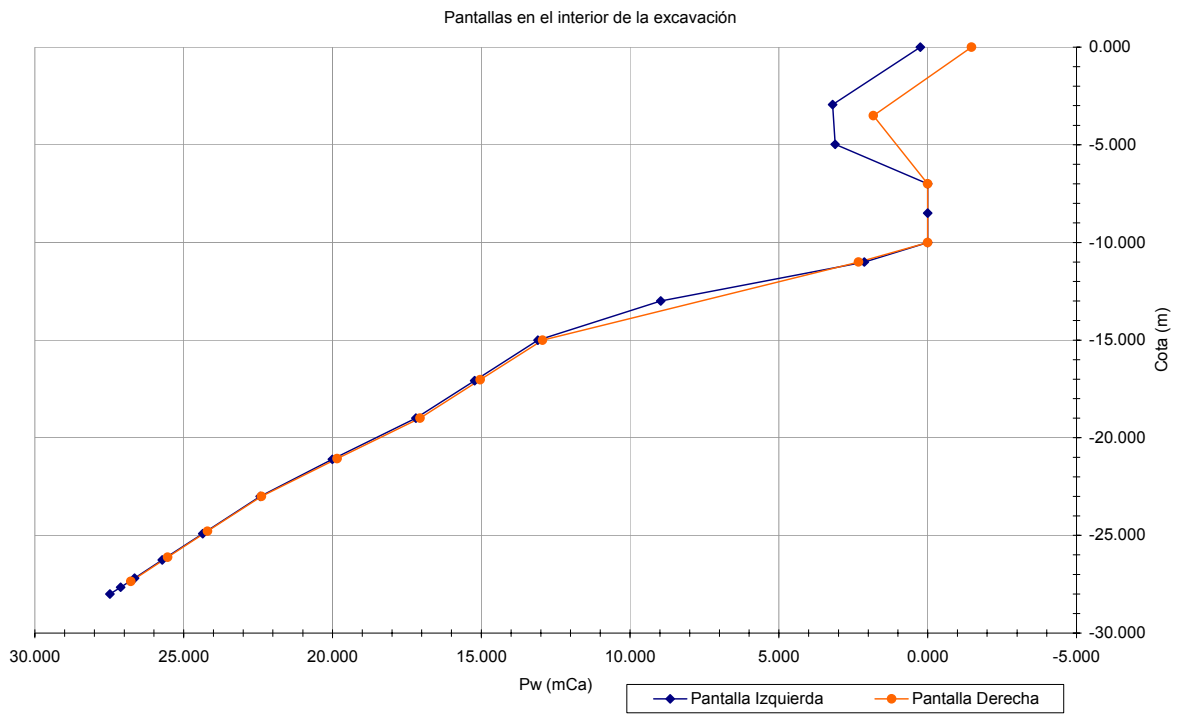
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-2.038	-2.038
891	6.500	-3.500	-2.042	1.458
846	6.500	-7.000	-2.057	4.943
845	6.500	-11.000	-4.655	6.345
886	6.500	-15.000	-9.123	5.877
923	6.500	-19.000	-9.144	9.856
964	6.500	-21.070	-9.829	11.241
977	6.500	-23.000	-9.577	13.423
976	6.500	-25.470	-9.556	15.914
1,007	6.500	-26.770	-9.589	17.181
985	6.500	-27.430	-9.625	17.805
944	6.500	-28.000	-9.690	18.310

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-2.053	-2.053
890	5.500	-3.500	-2.230	1.270
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-9.838	1.162
885	5.500	-15.000	-9.988	5.012
921	5.500	-17.030	-9.988	7.042
962	5.500	-19.000	-9.987	9.013
963	5.500	-21.070	-9.996	11.074
935	5.500	-23.000	-9.993	13.007
934	5.500	-24.790	-9.993	14.797
933	5.500	-26.120	-9.995	16.125
973	5.500	-27.350	-9.997	17.353

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO / SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-9.965	0.545	0.510	0.97	1.78	
754	-5.297	-11.000	-9.968	1.032	1.000	1.90	1.84	-7.38E-03
755	-5.297	-13.000	-10.000	3.000	3.000	5.70	1.90	-1.57E-02
756	-5.297	-15.000	-9.994	5.006	5.000	9.50	1.90	2.80E-03
794	-5.297	-17.080	-9.992	7.088	7.080	13.45	1.90	8.12E-04
797	-5.297	-19.000	-9.995	9.005	9.000	17.10	1.90	-1.08E-03
837	-5.297	-21.100	-10.000	11.100	11.100	21.09	1.90	-2.58E-03
804	-5.297	-23.000	-9.997	13.003	13.000	24.70	1.90	1.77E-03
805	-5.297	-24.950	-9.995	14.955	14.950	28.41	1.90	8.54E-04
851	-5.297	-26.340	-9.994	16.346	16.340	31.05	1.90	8.82E-04
854	-5.297	-27.300	-9.991	17.309	17.300	32.87	1.90	2.70E-03
853	-5.297	-27.690	-9.980	17.710	17.690	33.61	1.90	2.75E-02
810	-5.297	-28.010	-9.947	18.063	18.010	34.22	1.89	1.05E-01
766	-5.354	-28.300	-9.893	18.407	18.300	34.77	1.89	1.86E-01
727	-5.127	-28.640	-9.882	18.758	18.640	35.42	1.89	3.10E-02
695	-5.113	-29.810	-9.244	20.566	19.810	37.64	1.83	5.46E-01
612	-5.458	-31.590	-7.948	23.642	21.590	41.02	1.74	7.28E-01
614	-5.040	-35.070	-6.971	28.099	25.070	47.63	1.70	2.81E-01

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	0.247	0.247
627	-6.500	-2.074	0.246	2.320
668	-6.500	-4.149	0.241	4.390
626	-6.500	-7.000	0.222	7.222
623	-6.500	-9.000	-1.558	7.442
665	-6.500	-11.000	-2.569	8.431
664	-6.500	-13.000	-3.511	9.489
708	-6.500	-15.000	-1.641	13.359
707	-6.500	-17.070	-1.572	15.498
752	-6.500	-19.000	-1.560	17.440
759	-6.500	-21.110	-1.073	20.037
721	-6.500	-23.000	-0.529	22.471
761	-6.500	-24.540	-0.506	24.034
802	-6.500	-25.640	-0.499	25.141
770	-6.500	-26.510	-0.497	26.013
731	-6.500	-27.110	-0.496	26.614
730	-6.500	-27.540	-0.497	27.043
686	-6.500	-28.000	-0.501	27.499

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	0.247	0.247
670	-5.500	-2.950	0.242	3.192
714	-5.500	-4.975	-1.860	3.115
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-8.869	2.131
710	-5.500	-13.000	-4.026	8.974
751	-5.500	-15.000	-1.906	13.094
753	-5.500	-17.080	-1.855	15.225
795	-5.500	-19.000	-1.806	17.194
796	-5.500	-21.100	-1.095	20.005
762	-5.500	-23.000	-0.569	22.431
803	-5.500	-24.910	-0.551	24.359
814	-5.500	-26.260	-0.542	25.718
813	-5.500	-27.190	-0.535	26.655
808	-5.500	-27.650	-0.531	27.119
807	-5.500	-28.000	-0.525	27.475

Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-1.459	-1.459
891	6.500	-3.500	-1.463	2.037
846	6.500	-7.000	-1.479	5.521
845	6.500	-11.000	-3.920	7.080
886	6.500	-15.000	-1.890	13.110
923	6.500	-19.000	-1.824	17.176
964	6.500	-21.070	-1.220	19.850
977	6.500	-23.000	-0.614	22.386
976	6.500	-25.470	-0.591	24.879
1,007	6.500	-26.770	-0.583	26.187
985	6.500	-27.430	-0.580	26.850
944	6.500	-28.000	-0.578	27.422

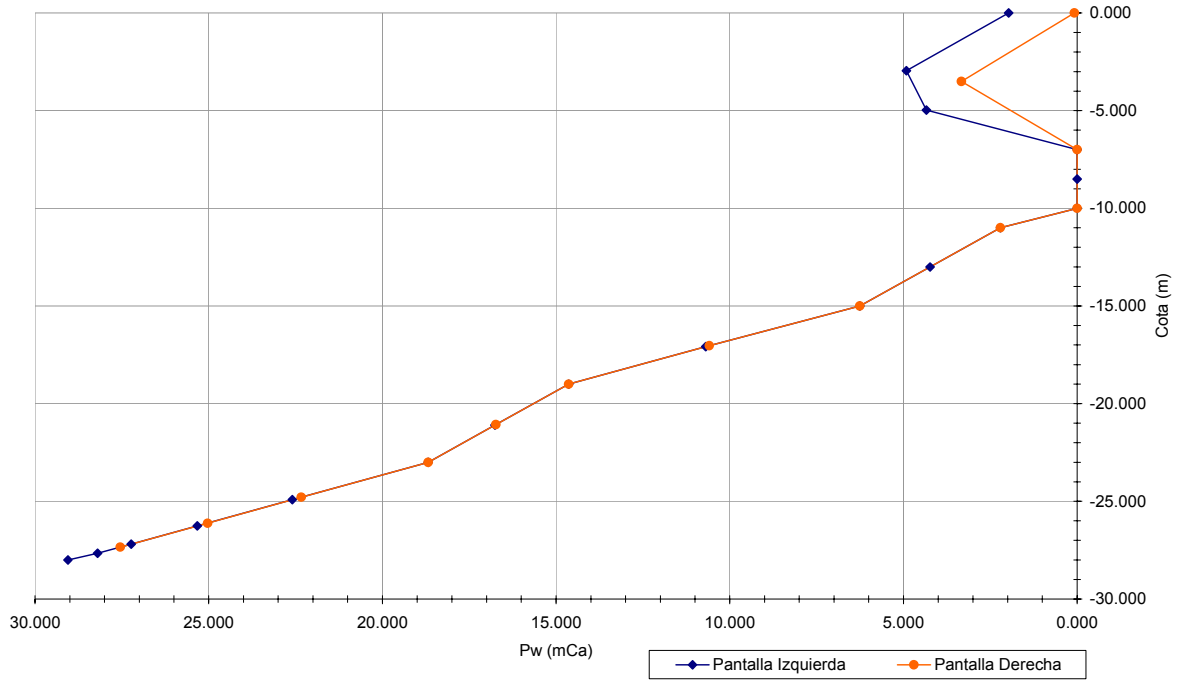
Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-1.475	-1.475
890	5.500	-3.500	-1.673	1.827
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-8.677	2.323
885	5.500	-15.000	-2.058	12.942
921	5.500	-17.030	-1.990	15.040
962	5.500	-19.000	-1.938	17.062
963	5.500	-21.070	-1.228	19.842
935	5.500	-23.000	-0.613	22.387
934	5.500	-24.790	-0.593	24.197
933	5.500	-26.120	-0.584	25.536
973	5.500	-27.350	-0.578	26.772

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO / SIFONAMIENTO

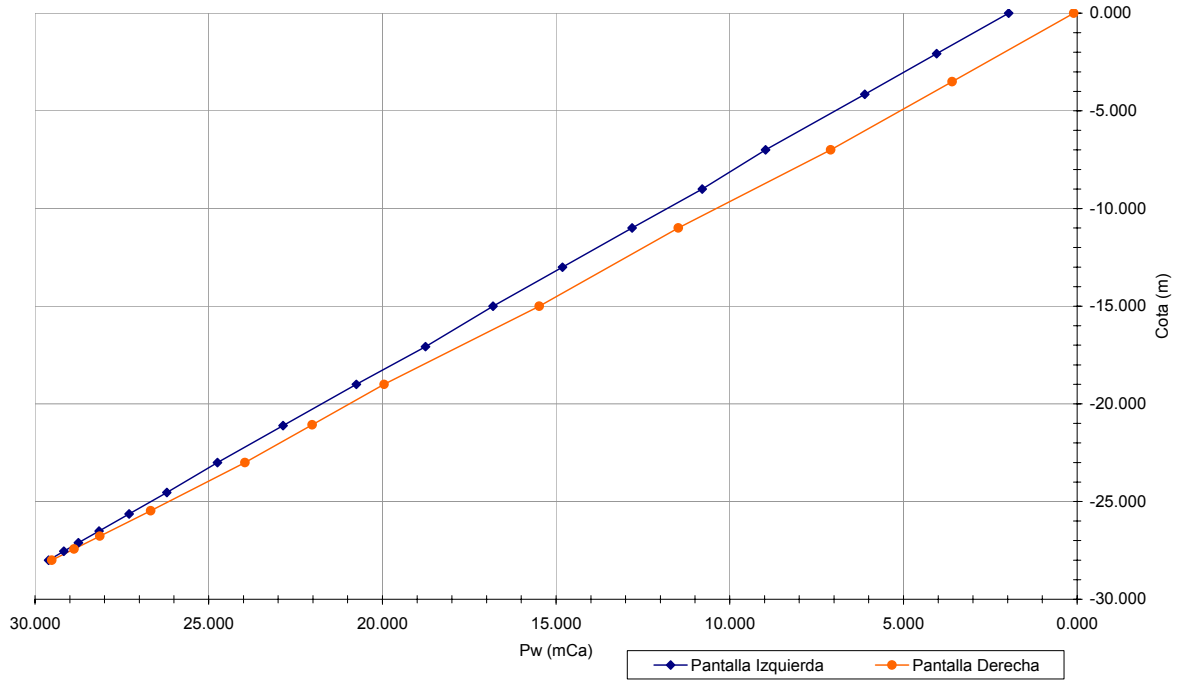
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	Gradiente bajo fondo excavación	
							FS	
711	-5.297	-10.510	-9.595	0.915	0.510	0.97	1.06	
754	-5.297	-11.000	-9.408	1.592	1.000	1.90	1.19	3.82E-01
755	-5.297	-13.000	-4.367	8.633	3.000	5.70	0.66	2.52E+00
756	-5.297	-15.000	-1.907	13.093	5.000	9.50	0.73	1.23E+00
794	-5.297	-17.080	-1.860	15.220	7.080	13.45	0.88	2.22E-02
797	-5.297	-19.000	-1.819	17.181	9.000	17.10	1.00	2.17E-02
837	-5.297	-21.100	-1.107	19.993	11.100	21.09	1.05	3.39E-01
804	-5.297	-23.000	-0.568	22.432	13.000	24.70	1.10	2.84E-01
805	-5.297	-24.950	-0.552	24.398	14.950	28.41	1.16	8.13E-03
851	-5.297	-26.340	-0.543	25.797	16.340	31.05	1.20	6.61E-03
854	-5.297	-27.300	-0.535	26.765	17.300	32.87	1.23	7.52E-03
853	-5.297	-27.690	-0.531	27.159	17.690	33.61	1.24	1.01E-02
810	-5.297	-28.010	-0.528	27.482	18.010	34.22	1.25	1.19E-02
766	-5.354	-28.300	-0.524	27.776	18.300	34.77	1.25	1.16E-02
727	-5.127	-28.640	-0.525	28.115	18.640	35.42	1.26	-3.84E-03
695	-5.113	-29.810	-0.363	29.447	19.810	37.64	1.28	1.39E-01
612	-5.458	-31.590	-0.014	31.576	21.590	41.02	1.30	1.96E-01
614	-5.040	-35.070	0.258	35.328	25.070	47.63	1.35	7.84E-02

PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantallas en el interior de la excavación



Pantallas en el exterior de la excavación



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	1.969	1.969
627	-6.500	-2.074	1.969	4.043
668	-6.500	-4.149	1.969	6.118
626	-6.500	-7.000	1.969	8.969
623	-6.500	-9.000	1.793	10.793
665	-6.500	-11.000	1.814	12.814
664	-6.500	-13.000	1.815	14.815
708	-6.500	-15.000	1.813	16.813
707	-6.500	-17.070	1.689	18.759
752	-6.500	-19.000	1.750	20.750
759	-6.500	-21.110	1.751	22.861
721	-6.500	-23.000	1.750	24.750
761	-6.500	-24.540	1.665	26.205
802	-6.500	-25.640	1.651	27.291
770	-6.500	-26.510	1.646	28.156
731	-6.500	-27.110	1.642	28.752
730	-6.500	-27.540	1.634	29.174
686	-6.500	-28.000	1.607	29.607

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	1.969	1.969
670	-5.500	-2.950	1.967	4.917
714	-5.500	-4.975	-0.633	4.342
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-8.789	2.211
710	-5.500	-13.000	-8.766	4.234
751	-5.500	-15.000	-8.742	6.258
753	-5.500	-17.080	-6.387	10.693
795	-5.500	-19.000	-4.362	14.638
796	-5.500	-21.100	-4.340	16.760
762	-5.500	-23.000	-4.319	18.681
803	-5.500	-24.910	-2.314	22.596
814	-5.500	-26.260	-0.934	25.326
813	-5.500	-27.190	0.039	27.229
808	-5.500	-27.650	0.547	28.197
807	-5.500	-28.000	1.053	29.053

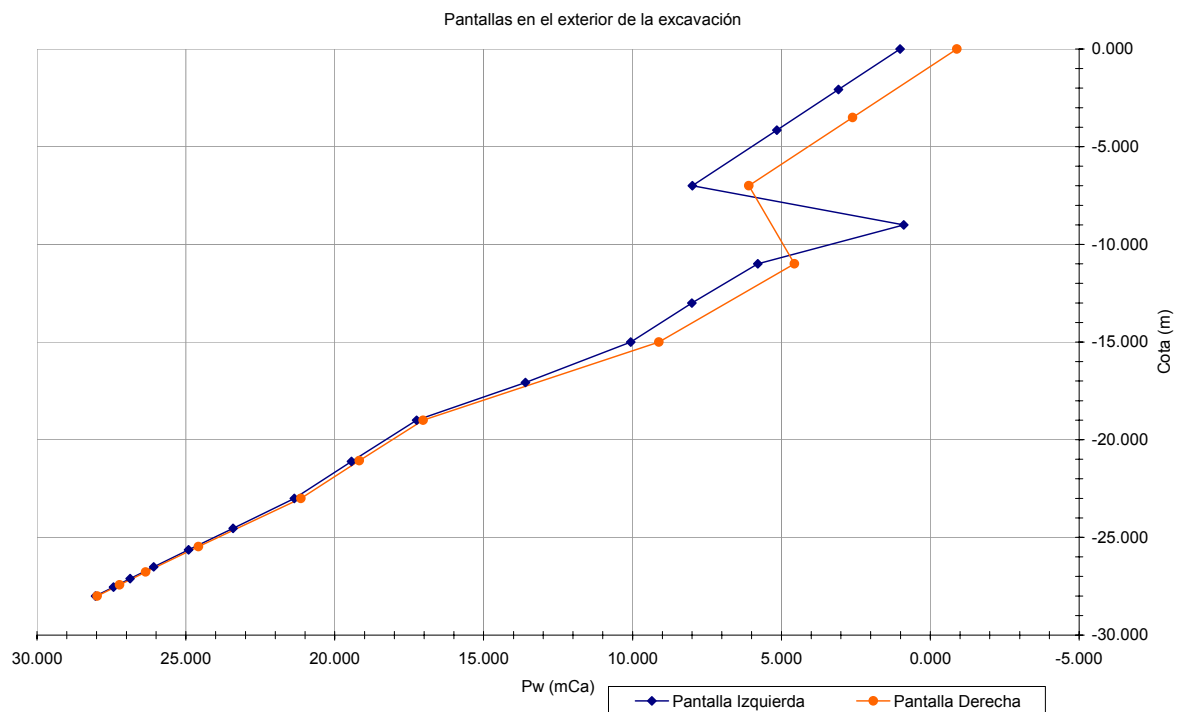
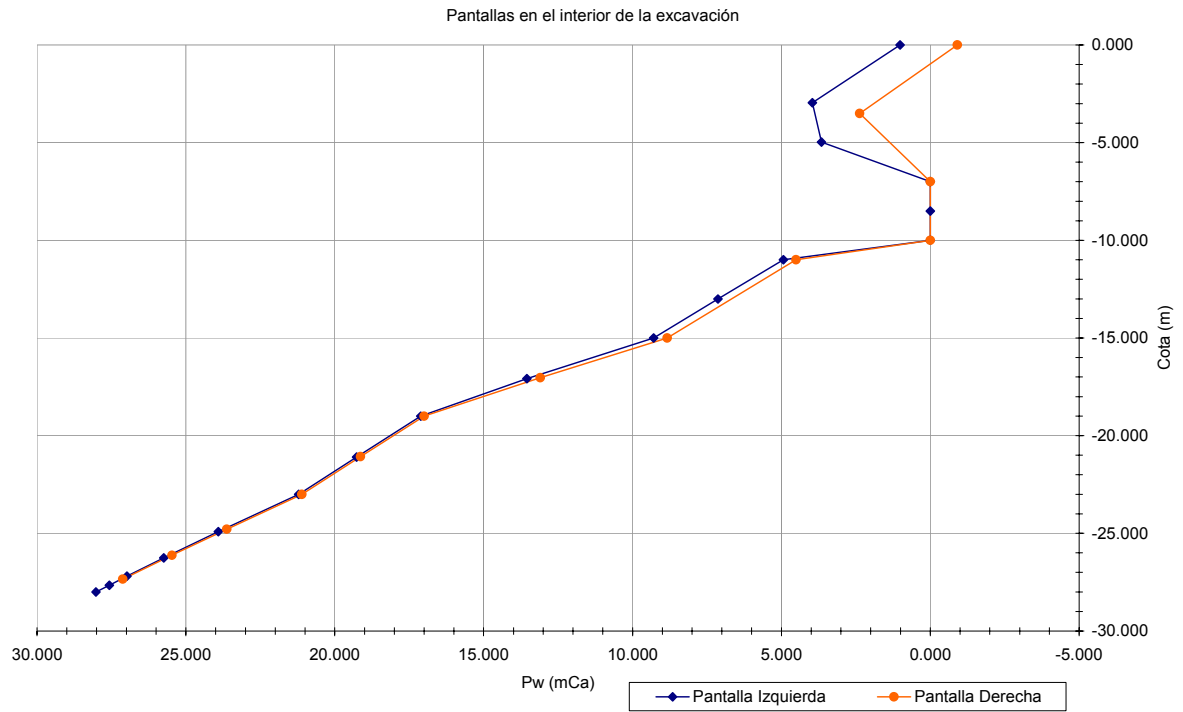
Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	0.096	0.096
891	6.500	-3.500	0.096	3.596
846	6.500	-7.000	0.096	7.096
845	6.500	-11.000	0.479	11.479
886	6.500	-15.000	0.483	15.483
923	6.500	-19.000	0.949	19.949
964	6.500	-21.070	0.952	22.022
977	6.500	-23.000	0.954	23.954
976	6.500	-25.470	1.202	26.672
1,007	6.500	-26.770	1.366	28.136
985	6.500	-27.430	1.451	28.881
944	6.500	-28.000	1.517	29.517

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	0.076	0.076
890	5.500	-3.500	-0.173	3.327
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-8.790	2.210
885	5.500	-15.000	-8.743	6.257
921	5.500	-17.030	-6.444	10.586
962	5.500	-19.000	-4.362	14.638
963	5.500	-21.070	-4.341	16.729
935	5.500	-23.000	-4.320	18.680
934	5.500	-24.790	-2.456	22.334
933	5.500	-26.120	-1.095	25.025
973	5.500	-27.350	0.198	27.548

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO / SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	Gradiente bajo fondo excavación	
							FS	
711	-5.297	-10.510	-9.377	1.133	0.510	0.97	0.85	
754	-5.297	-11.000	-8.789	2.211	1.000	1.90	0.86	1.20E+00
755	-5.297	-13.000	-8.766	4.234	3.000	5.70	1.35	1.18E-02
756	-5.297	-15.000	-8.742	6.258	5.000	9.50	1.52	1.18E-02
794	-5.297	-17.080	-6.403	10.677	7.080	13.45	1.26	1.12E+00
797	-5.297	-19.000	-4.362	14.638	9.000	17.10	1.17	1.06E+00
837	-5.297	-21.100	-4.340	16.760	11.100	21.09	1.26	1.04E-02
804	-5.297	-23.000	-4.320	18.680	13.000	24.70	1.32	1.06E-02
805	-5.297	-24.950	-2.283	22.667	14.950	28.41	1.25	1.04E+00
851	-5.297	-26.340	-0.860	25.480	16.340	31.05	1.22	1.02E+00
854	-5.297	-27.300	0.145	27.445	17.300	32.87	1.20	1.05E+00
853	-5.297	-27.690	0.584	28.274	17.690	33.61	1.19	1.13E+00
810	-5.297	-28.010	0.949	28.959	18.010	34.22	1.18	1.14E+00
766	-5.354	-28.300	1.215	29.515	18.300	34.77	1.18	9.18E-01
727	-5.127	-28.640	1.419	30.059	18.640	35.42	1.18	5.99E-01
695	-5.113	-29.810	1.683	31.493	19.810	37.64	1.20	2.26E-01
612	-5.458	-31.590	1.694	33.284	21.590	41.02	1.23	5.97E-03
614	-5.040	-35.070	1.701	36.771	25.070	47.63	1.30	2.02E-03

PRESIONES DE AGUA SOBRE LAS PANTALLAS



PRESIONES DE AGUA SOBRE LAS PANTALLAS

Pantalla Izquierda, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
628	-6.500	0.000	1.011	1.011
627	-6.500	-2.074	1.010	3.084
668	-6.500	-4.149	1.008	5.157
626	-6.500	-7.000	0.996	7.996
623	-6.500	-9.000	-8.112	0.888
665	-6.500	-11.000	-5.211	5.789
664	-6.500	-13.000	-4.989	8.011
708	-6.500	-15.000	-4.938	10.062
707	-6.500	-17.070	-3.470	13.600
752	-6.500	-19.000	-1.743	17.257
759	-6.500	-21.110	-1.670	19.440
721	-6.500	-23.000	-1.640	21.360
761	-6.500	-24.540	-1.129	23.411
802	-6.500	-25.640	-0.730	24.910
770	-6.500	-26.510	-0.430	26.080
731	-6.500	-27.110	-0.237	26.873
730	-6.500	-27.540	-0.109	27.431
686	-6.500	-28.000	0.033	28.033

Pantalla Izquierda, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
671	-5.500	0.000	1.011	1.011
670	-5.500	-2.950	1.007	3.957
714	-5.500	-4.975	-1.316	3.659
669	-5.500	-7.000	-7.000	0.000
667	-5.500	-8.500	-8.500	0.000
666	-5.500	-10.000	-10.000	0.000
709	-5.500	-11.000	-6.069	4.931
710	-5.500	-13.000	-5.866	7.134
751	-5.500	-15.000	-5.707	9.293
753	-5.500	-17.080	-3.534	13.546
795	-5.500	-19.000	-1.888	17.112
796	-5.500	-21.100	-1.835	19.265
762	-5.500	-23.000	-1.787	21.213
803	-5.500	-24.910	-1.001	23.909
814	-5.500	-26.260	-0.514	25.746
813	-5.500	-27.190	-0.211	26.979
808	-5.500	-27.650	-0.076	27.574
807	-5.500	-28.000	0.020	28.020

Pantalla Derecha, lado exterior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
931	6.500	0.000	-0.892	-0.892
891	6.500	-3.500	-0.894	2.606
846	6.500	-7.000	-0.905	6.095
845	6.500	-11.000	-6.435	4.565
886	6.500	-15.000	-5.888	9.112
923	6.500	-19.000	-1.965	17.035
964	6.500	-21.070	-1.896	19.174
977	6.500	-23.000	-1.860	21.140
976	6.500	-25.470	-0.894	24.576
1,007	6.500	-26.770	-0.421	26.349
985	6.500	-27.430	-0.204	27.226
944	6.500	-28.000	-0.019	27.981

Pantalla Derecha, lado interior excavación				
Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)
930	5.500	0.000	-0.909	-0.909
890	5.500	-3.500	-1.125	2.375
847	5.500	-7.000	-7.000	0.000
801	5.500	-10.000	-10.000	0.000
844	5.500	-11.000	-6.491	4.509
885	5.500	-15.000	-6.166	8.834
921	5.500	-17.030	-3.932	13.098
962	5.500	-19.000	-2.000	17.000
963	5.500	-21.070	-1.934	19.136
935	5.500	-23.000	-1.894	21.106
934	5.500	-24.790	-1.164	23.626
933	5.500	-26.120	-0.654	25.466
973	5.500	-27.350	-0.227	27.123

SEGURIDAD FRENTE LEVANTAMIENTO DE FONDO / SIFONAMIENTO

Nº NUDO	X (m)	Z (m)	H (mCa)	Pw (mca)	Columna terreno (m)	TT (T/m ²) $\gamma=1.9$ (T/m ³)	FS	Gradiente
								bajo fondo excavación
711	-5.297	-10.510	-7.975	2.535	0.510	0.97	0.38	
754	-5.297	-11.000	-6.058	4.942	1.000	1.90	0.38	3.91E+00
755	-5.297	-13.000	-5.884	7.116	3.000	5.70	0.80	8.72E-02
756	-5.297	-15.000	-5.746	9.254	5.000	9.50	1.03	6.86E-02
794	-5.297	-17.080	-3.581	13.499	7.080	13.45	1.00	1.04E+00
797	-5.297	-19.000	-1.886	17.114	9.000	17.10	1.00	8.83E-01
837	-5.297	-21.100	-1.838	19.262	11.100	21.09	1.09	2.27E-02
804	-5.297	-23.000	-1.796	21.204	13.000	24.70	1.16	2.20E-02
805	-5.297	-24.950	-0.983	23.967	14.950	28.41	1.19	4.17E-01
851	-5.297	-26.340	-0.460	25.880	16.340	31.05	1.20	3.77E-01
854	-5.297	-27.300	-0.115	27.185	17.300	32.87	1.21	3.59E-01
853	-5.297	-27.690	0.055	27.745	17.690	33.61	1.21	4.36E-01
810	-5.297	-28.010	0.240	28.250	18.010	34.22	1.21	5.78E-01
766	-5.354	-28.300	0.519	28.819	18.300	34.77	1.21	9.62E-01
727	-5.127	-28.640	0.938	29.578	18.640	35.42	1.20	1.23E+00
695	-5.113	-29.810	1.319	31.129	19.810	37.64	1.21	3.26E-01
612	-5.458	-31.590	1.334	32.924	21.590	41.02	1.25	8.36E-03
614	-5.040	-35.070	1.345	36.415	25.070	47.63	1.31	3.15E-03