
 WSPRLWA2009
 BERECHNUNG STATIONAERER WASSERSPIEGELLAGEN

DATUM : 17.06.2009
 STARTZEIT : 14h 17' 59"
 EINGABEDATEI : Stws0001.001
 ERGEBNISDATEI : Ster0001.001
 BEWUCHSSDATEI : Stbe0001.001
 QPLOTT-DATEI : Stqpp001.001
 LPLOTT-DATEI : Stlp0001.001

ICL Ingenieur Consult Dr.-Ing. A. Kolbmuejller GmbH
 Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0

STATIONAERE WASSERSPIEGELLAGEN
 PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009

PROJEKT K1-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
 VARIANTE HQ 100 Plan Damm Mündung
 DATEI Ster0001

SEITE 1

ERGEBNISSE												
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FROUDE	ALPHA	KZW KZD
ABFLUSS	NN+m/m	m ³ /s	m ² 0.33/s	m	m	m ²	m/s	m	NN+m	IE o/o	ALPHAS	
0 +	1.00	241.80	30.72	22.0	17.19	21.66	44.28	0.69	241.82	0.138	1.000	1 0
	30.72	2.86	0.00	17.0	0.00	0.00	0.00	0.00		0.38	1.000	
0 +	10.00	241.80	30.72	22.0	10.22	26.55	38.07	0.81	241.84	0.133	1.000	12 0
	30.72	2.85	0.00	22.0	0.00	0.00	0.00	0.00		0.83	1.000	

Seite 1

Ster0001.001

0 +	14.00	241.81	30.72	22.0	20.39	24.87	53.34	0.58	241.83	0.114	1.000	0 0
	30.72	2.93	0.00	17.0	0.00	0.00	0.00	0.00		0.25	1.000	

 Energieinjengefaelle negativ *****
 !!! Datensatz ueberpruefen !!!

0 +	81.00	241.88	28.11	20.3	9.14	11.05	16.49	1.70	242.01	0.510	1.236	0 0
	30.72	2.08	2.61	17.0	10.56	10.60	4.34	0.60		4.12	1.092	
0 +	181.00	242.33	28.65	22.0	12.76	13.51	15.90	1.80	242.49	0.576	1.099	0 0
	29.41	1.47	0.76	17.0	5.01	5.04	1.42	0.54		5.40	1.042	
0 +	297.00	243.47	29.41	22.0	7.15	8.32	8.58	3.43	244.07	1.000	1.000	4 0
	29.41	1.96	0.00	17.0	0.00	0.00	0.00	0.00		23.32	1.000	

+++++++ Engstelle mit FlieBwechsel, Energiemixtum > EH(UW)
 !!! Profilabstand zum Ow ueberpruefen !!!

0 +	364.50	244.26	29.41	22.0	9.94	12.02	15.29	1.92	244.45	0.503	1.001	0 0
	29.41	2.46	0.00	17.0	0.31	0.31	0.01	0.08		5.54	1.000	
0 +	441.00	244.70	29.41	22.0	12.42	13.45	16.12	1.82	244.87	0.511	1.000	0 0
	29.41	1.73	0.00	17.0	0.00	0.00	0.00	0.00		5.40	1.000	
0 +	503.00	245.06	29.41	22.0	20.59	21.29	20.60	1.43	245.17	0.457	1.000	0 0
	29.41	1.57	0.00	17.0	0.06	0.12	0.00	0.10		4.40	1.000	

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SEITE 2

ERGEBNISSE
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Seite 2

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ /s	BREITTE m	UMFANG m	FLÄCHE m ²	GESCHW m/s	HZV m	E-HOEH NN+M	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
0 + 583.00 29.41	245.52 1.37	0.41 0.00	17.0 17.0	11.74 0.00	11.77 0.00	1.14 0.00	2.22 0.00	0.021	245.76	0.904 9.94	1.134 1.060	0 0
0 + 689.00 29.41	246.36 1.61	9.49 0.12	17.0 17.0	52.42 14.51	52.45 14.72	22.06 0.41	1.12 0.31	0.000	246.40	0.396 2.03	1.685 1.220	0 0
0 + 796.00 29.41	246.65 1.66	0.00 0.00	17.0 17.0	0.00 0.00	14.49 0.00	17.70 0.00	0.00 0.00	0.044	246.79	0.460 4.37	1.000 1.000	0 0
0 + 891.00 29.41	247.06 1.99	0.00 0.00	17.0 17.0	0.00 0.00	0.00 14.41	0.00 17.40	0.00 1.69	0.000	247.21	0.471 4.59	1.000 1.000	0 0
0 + 990.00 29.41	247.56 1.86	0.00 0.00	17.0 17.0	0.00 0.00	0.00 13.87	0.00 15.70	0.00 0.00	0.002	247.74	0.540 6.15	1.000 1.000	0 0
0 + 998.00 29.41	247.58 1.70	0.00 0.00	17.0 17.0	0.00 0.00	0.00 20.50	0.00 12.28	0.00 2.39	0.014	247.87	0.905 23.45	1.000 1.000	31 5
1 + 6.00 29.41	247.79 1.87	0.00 29.41	17.0 22.0	0.00 12.03	0.00 12.83	0.00 14.56	0.00 2.02	0.000	247.99	0.586 7.12	1.000 1.000	0 0
1 + 25.00 29.41	247.93 1.96	0.02 0.00	17.0 17.0	4.62 0.44	4.62 13.05	0.13 15.63	0.12 1.88	0.000	248.11	0.629 5.75	1.016 1.008	0 0
1 + 96.00 29.41	248.32 1.73	0.00 29.41	17.0 22.0	0.00 13.75	0.00 15.02	0.00 20.10	0.00 1.46	0.000	248.42	0.386 3.00	1.000 1.000	0 0
1 + 166.00 29.41	248.61 1.42	0.00 0.00	17.0 22.0	0.00 12.32	0.00 13.16	0.00 14.18	0.00 2.07	0.019	248.83	0.617 8.03	1.000 1.000	0 0
1 + 222.20 29.41	249.07 1.39	0.00 29.36	17.0 22.0	0.06 12.86	0.10 13.39	0.00 13.91	0.13 2.11	0.000	249.29	0.708 8.74	1.022 1.010	0 0

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STATIONMERE WASSERSPIEGELLAGEN
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009
PROJEKT K1-Strieg + 1.00 bis 0 + 15240.00 m
ZUSTAND Station 0
VARIANTE HQ.100 Plan Damm Mündung
DATEI Ster0001

ERGEBNISSE

SEITE 3

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ /s	BREITTE m	UMFANG m	FLÄCHE m ²	GESCHW m/s	HZV m	E-HOEH NN+M	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
1 + 226.00 29.41	249.20 1.60	0.70 26.70	17.0 22.0	19.05 13.36	19.29 13.66	2.55 16.88	0.28 1.38	0.000	249.31	0.644 3.90	1.381 1.150	0 0
1 + 273.00 29.41	249.39 1.54	0.18 29.21	17.0 17.0	4.68 10.97	4.71 11.58	0.52 0.06	0.36 2.20	0.036	249.64	0.763 8.37	1.066 1.030	0 0
1 + 349.00 29.41	249.98 1.89	0.05 29.36	17.0 22.0	1.50 11.27	1.53 12.14	0.18 15.44	0.30 1.90	0.000	250.16	0.548 5.42	1.018 1.008	0 0
1 + 421.00 29.41	250.40 2.08	0.53 28.86	17.0 17.0	11.94 11.24	11.95 12.10	1.50 14.19	0.35 2.03	0.000	250.60	0.786 6.90	1.164 1.072	0 0
1 + 541.00 29.41	251.43 1.91	0.02 29.39	17.0 17.0	2.00 11.24	2.00 12.10	0.08 12.30	0.22 2.39	0.013	251.72	0.793 11.53	1.013 1.006	0 0
1 + 545.00 29.41	251.34 1.78	0.00 29.41	17.0 22.0	0.00 5.16	0.00 9.59	0.00 0.00	0.00 3.04	0.023	251.81	0.710 18.91	1.000 1.000	12 0
1 + 551.00 29.41	251.68 1.94	0.00 29.19	17.0 17.0	0.00 9.97	0.00 11.06	0.00 14.71	0.00 1.98	0.000	251.88	0.582 5.57	1.052 1.023	0 0
1 + 600.50 29.41	251.97 1.95	0.39 28.81	17.0 22.0	15.44 12.65	15.45 13.48	1.63 17.52	0.24 1.64	0.000	252.11	0.663 3.94	1.204 1.089	0 0
1 + 695.00	252.33	13.95	17.0	20.34	20.47	20.61	0.68	0.000	252.37	0.282	1.207	0 0

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29.41	1.78	0.45	17.0	5.30	5.37	1.54	0.29			1.57	1.070		
1 + 789.00	252.56	0.00	17.0	0.56	0.57	0.01	0.06						
29.41	1.45	0.01	17.0	21.87	1.65	21.44	1.37	0.016	0.016	252.65	0.464	1.005	0 0
1 + 865.00	252.96	0.00	17.0	0.00	0.00	0.00	0.00						
29.41	1.25	0.00	17.0	20.49	20.81	17.12	1.72	0.006	0.006	253.11	0.600	1.000	0 0
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DATEI Ster0001													
ERGBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FROUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m3/s	m^0.33/s	m	m	m2	m/s	m	NN+m	IE 0/00	ALPHAS		
1 + 940.00	254.56	9.58	17.0	12.15	13.05	6.07	1.58	0.000	254.79	1.000	1.448	4 0	
29.41	2.23	13.89	22.0	3.04	7.05	5.08	2.73			23.92	1.140		
		5.95	17.0	19.64	19.73	5.38	1.11						
+++++++ Engstelle mit Fluesswechsel, Energiemintimum > EH(UW) ++++++													
1 + 944.00	254.76	0.03	17.0	1.01	1.07	0.18	0.17						
29.41	2.28	20.16	22.0	12.82	15.32	21.69	0.93	0.000	254.79	0.276	1.486	0 0	
		9.22	17.0	38.02	38.21	22.82	0.40			1.12	1.161		
2 + 14.00	254.85	0.00	17.0	0.00	0.00	0.00	0.00	0.047	254.98	0.378	1.000	0 0	
29.41	2.29	0.00	17.0	23.05	23.06	1.65	0.20			4.81	1.171		
		0.69	17.0	16.99	17.02	2.26	0.30	0.000	255.07	0.919	1.411	0 0	
2 + 33.00	254.90	28.38	22.0	10.32	11.66	15.52	1.83			4.72	1.173		
29.41	1.93	0.34	17.0	22.37	22.37	1.66	0.21						
2 + 81.10	255.12	5.47	17.0	20.55	20.96	7.73	0.71	0.000	255.34	0.832	1.705	0 0	
29.41	1.92	23.83	22.0	6.49	7.00	10.32	2.31			6.56	1.246		
		0.11	17.0	1.09	1.19	0.23	0.46						
2 + 131.00	255.47	3.60	17.0	9.19	9.29	6.32	0.57	0.000	255.55	0.368	1.239	0 0	
29.41	2.13	25.71	22.0	11.32	12.00	19.53	1.32			1.87	1.090		
		0.10	17.0	1.94	2.05	0.40	0.25						
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STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FROUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m3/s	m^0.33/s	m	m	m2	m/s	m	NN+m	IE 0/00	ALPHAS		
2 + 181.10	255.56	1.07	17.0	8.32	8.38	2.39	0.45	0.002	255.69	0.609	1.573	0 0	
29.41	2.12	24.60	22.0	8.35	9.17	13.94	1.77			3.68	1.206		
		3.47	17.0	16.19	16.28	6.89	0.50	0.000	255.91	0.569	1.704	0 0	
2 + 250.00	255.81	24.36	22.0	9.66	10.62	16.02	1.52			2.76	1.250		
29.41	2.14	1.59	17.0	18.93	18.97	4.58	0.35						
2 + 309.00	255.97	0.00	17.0	0.40	0.40	0.00	0.04	0.009	256.09	0.459	1.039	0 0	
29.41	1.97	0.10	17.0	4.54	4.54	0.46	0.21			3.06	1.018		

Seite 5

2 + 28.00	254.88	0.00	17.0	0.12	0.14	0.00	0.06						
29.41	2.01	29.41	22.0	9.93	11.77	16.30	1.80	0.000	255.05	0.452	1.000	31 5	
		0.00	17.0	0.00	0.00	0.00	0.00			4.36	1.000		
2 + 30.00	254.89	0.64	17.0	16.97	17.01	2.16	0.30	0.004	255.05	0.936	1.405	0 0	
29.41	1.92	28.43	22.0	10.52	11.66	15.45	1.84			4.81	1.171		
		0.33	17.0	23.05	23.06	1.65	0.20						
2 + 33.00	254.90	0.69	17.0	16.99	17.02	2.26	0.30	0.000	255.07	0.919	1.411	0 0	
29.41	1.93	28.38	22.0	10.32	11.66	15.52	1.83			4.72	1.173		
		0.34	17.0	22.37	22.37	1.66	0.21						
2 + 81.10	255.12	5.47	17.0	20.55	20.96	7.73	0.71	0.000	255.34	0.832	1.705	0 0	
29.41	1.92	23.83	22.0	6.49	7.00	10.32	2.31			6.56	1.246		
		0.11	17.0	1.09	1.19	0.23	0.46						
2 + 131.00	255.47	3.60	17.0	9.19	9.29	6.32	0.57	0.000	255.55	0.368	1.239	0 0	
29.41	2.13	25.71	22.0	11.32	12.00	19.53	1.32			1.87	1.090		
		0.10	17.0	1.94	2.05	0.40	0.25						
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STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FROUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m3/s	m^0.33/s	m	m	m2	m/s	m	NN+m	IE 0/00	ALPHAS		
2 + 181.10	255.56	1.07	17.0	8.32	8.38	2.39	0.45	0.002	255.69	0.609	1.573	0 0	
29.41	2.12	24.60	22.0	8.35	9.17	13.94	1.77			3.68	1.206		
		3.47	17.0	16.19	16.28	6.89	0.50	0.000	255.91	0.569	1.704	0 0	
2 + 250.00	255.81	24.36	22.0	9.66	10.62	16.02	1.52			2.76	1.250		
29.41	2.14	1.59	17.0	18.93	18.97	4.58	0.35						
2 + 309.00	255.97	0.00	17.0	0.40	0.40	0.00	0.04	0.009	256.09	0.459	1.039	0 0	
29.41	1.97	0.10	17.0	4.54	4.54	0.46	0.21			3.06	1.018		

Seite 6

2 + 375.00	256.21	0.71	17.0	17.60	17.64	2.27	0.31	0.001	256.36	0.732	1.214	0	0
29.41	1.84	28.69	22.0	13.13	13.85	16.23	1.77	0.001	256.36	5.23	1.093	0	0
		0.01	17.0	1.24	1.25	0.06	0.16						
2 + 445.00	256.59	5.80	17.0	26.06	26.08	9.67	0.60	0.000	256.71	0.635	1.668	0	0
29.41	1.84	22.37	22.0	10.51	11.26	13.31	1.68	0.000	256.71	4.67	1.226	0	0
		1.24	17.0	8.51	8.52	2.45	0.51						
2 + 499.00	256.96	1.41	17.0	19.72	19.75	3.10	0.46	0.000	257.18	1.000	1.375	4	0
29.41	1.80	27.89	22.0	11.75	12.39	13.20	2.11	0.000	257.18	8.48	1.153	0	0
		0.11	17.0	7.25	7.26	0.44	0.24						
+++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW)						+++++++						
2 + 557.00	257.37	0.74	17.0	13.51	13.53	1.90	0.39	0.001	257.60	0.856	1.225	0	0
29.41	1.78	28.61	22.0	10.29	10.95	13.38	2.14	0.001	257.60	7.23	1.097	0	0
		0.05	17.0	1.10	1.13	0.14	0.36						
2 + 617.00	257.82	0.00	17.0	0.00	0.00	0.00	0.00	0.015	258.12	0.621	1.000	0	0
29.41	1.79	29.41	22.0	7.56	10.10	11.99	2.45	0.000	258.12	9.88	1.000	0	0
		0.00	17.0	0.00	0.00	0.00	0.00						
2 + 654.00	258.16	0.00	17.0	0.00	0.00	0.00	0.00	0.002	258.53	0.683	1.000	0	0
29.41	2.15	29.41	22.0	7.06	9.23	11.01	2.67	0.000	258.53	11.64	1.000	0	0
		0.00	17.0	0.00	0.00	0.00	0.00						
2 + 681.00	258.46	0.00	17.0	0.00	0.00	0.00	0.00	0.005	258.92	0.663	1.000	12	0
29.41	2.01	29.41	22.0	9.17	10.17	9.89	2.97	0.000	258.92	16.51	1.000	0	0
		0.00	17.0	0.00	0.00	0.00	0.00						
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STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	EROUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+m	IE 0/00	ALPHAS		
2 + 689.00	258.75	0.00	10.0	0.00	0.00	0.00	0.00	0.000	259.01	0.569	1.001	0	0
		29.41	22.0	8.02	10.60	13.13	2.24	0.000	259.01	0.569	1.001	0	0
					seite 7								

29.41	1.90	0.00	10.0	0.27	0.28	0.01	0.10		7.80	1.001			
		0.05	10.0	0.89	1.03	0.20	0.23						
2 + 774.70	259.36	29.36	22.0	9.99	11.06	15.56	1.89	0.000	259.55	0.505	1.024	0	0
29.41	2.00	0.00	10.0	0.24	0.29	0.02	0.12						
		0.02	10.0	0.83	0.88	0.13	0.20						
2 + 832.00	259.64	29.31	22.0	10.80	11.44	15.35	1.91	0.000	259.82	0.547	1.043	0	0
29.41	1.84	0.08	10.0	1.10	1.22	0.28	0.27						
		0.14	10.0	2.68	2.89	0.63	0.23						
2 + 881.00	259.90	28.24	22.0	11.68	12.67	16.79	1.68	0.000	260.04	0.599	1.406	0	0
29.41	1.92	1.03	10.0	13.02	13.02	3.73	0.28						
		0.18	10.0	1.16	1.26	0.32	0.55						
2 + 974.00	260.54	29.18	22.0	10.20	10.55	10.02	2.91	0.000	260.96	1.000	1.068	4	0
29.41	1.46	0.05	10.0	0.84	0.90	0.14	0.39						
+++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW)						+++++++						
3 + 18.00	261.14	1.07	10.0	4.08	4.17	1.82	0.59	0.000	261.43	0.796	1.212	0	0
29.41	1.54	28.33	22.0	9.89	10.46	11.72	2.42	0.000	261.43	10.37	1.085	0	0
		0.02	10.0	1.06	1.07	0.09	0.20						
3 + 96.00	261.88	4.43	10.0	9.13	10.25	9.16	0.48	0.000	261.94	0.341	1.969	0	0
29.41	1.36	17.60	22.0	10.45	11.18	13.52	1.30	0.000	261.94	2.72	1.289	0	0
		7.38	10.0	21.31	21.41	16.71	0.44						
		1.81	10.0	11.61	11.83	5.43	0.33						
3 + 134.00	261.96	26.60	22.0	13.19	13.21	17.78	1.50	0.006	262.06	0.520	1.692	0	0
29.41	1.43	1.01	10.0	10.10	10.22	3.61	0.28						
		0.03	10.0	0.71	0.81	0.14	0.23						
3 + 209.50	262.24	29.37	22.0	13.08	13.56	15.90	1.85	0.027	262.42	0.559	1.021	0	0
29.41	1.71	0.01	10.0	0.68	0.70	0.06	0.15						
		4.36	10.0	24.59	24.87	14.99	0.29						
3 + 297.00	262.68	24.07	22.0	11.88	12.42	19.71	1.22	0.000	262.74	0.388	2.166	0	0
29.41	2.15	0.98	10.0	10.00	10.05	4.25	0.23						

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009

PROJEKT Kl-strieg

ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m

VARIANTE HQ 100 Plan Damm Mündung
DATEI Ster0001

Ster0001.001
SEITE 7

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STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW
ABFLUSS	NN+m/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS	KZD
3 + 390.00	262.86	0.05	10.0	0.99	1.10	0.24	0.21	0.036	263.01	0.461	1.096	0 0
29.41	2.00	29.13	22.0	10.33	11.35	17.40	1.67	0.28		3.27	1.043	
3 + 477.00	263.17	3.66	10.0	22.17	22.18	11.38	0.32	0.000	263.25	0.488	2.021	0 0
29.41	1.99	25.15	22.0	11.88	12.42	17.87	1.41	0.22		2.52	1.358	
3 + 481.00	263.10	0.00	10.0	0.00	0.00	0.00	0.00	0.107	263.39	0.567	1.000	31 5
29.41	1.91	29.41	22.0	6.99	10.09	12.42	2.37	0.00		8.77	1.000	
3 + 485.00	263.27	1.95	10.0	18.99	18.99	6.56	0.30	0.000	263.41	0.604	1.623	0 0
29.41	2.04	27.44	22.0	10.51	11.39	16.29	1.68	0.13		3.64	1.245	
3 + 488.00	263.24	0.82	10.0	18.99	18.99	3.39	0.24	0.007	263.43	0.798	1.399	0 0
29.41	1.87	28.59	22.0	10.51	11.39	14.54	1.97	0.05		5.78	1.170	
3 + 565.00	264.06	2.75	10.0	48.83	48.88	10.31	0.27	0.000	264.25	1.000	2.456	4 0
29.41	2.34	26.57	22.0	9.02	10.05	13.29	2.00	0.14		5.69	1.509	
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++												
!!! Profilstabstand zum Ow ueberpruefen !!!												
3 + 661.00	264.38	3.29	10.0	19.61	19.74	10.43	0.32	0.000	264.47	0.464	1.806	0 0
29.41	2.21	26.03	22.0	10.51	11.39	18.05	1.44	0.15		2.33	1.296	
3 + 664.00	264.22	0.00	10.0	0.00	0.00	0.00	0.00	0.198	264.74	0.000	1.126	11 0
29.41	2.04	29.13	22.0	6.41	8.10	9.16	3.18	0.40		41.56	1.057	
3 + 667.00	264.61	0.00	10.0	0.14	0.34	0.02	0.12	0.000	264.82	0.517	1.014	9 0
29.41	2.50	29.40	22.0	8.50	11.21	14.79	1.99	0.13		5.64	1.007	
3 + 672.00	264.67	0.01	10.0	0.21	0.52	0.05	0.14	0.000	264.84	0.473	1.047	0 0
		29.33	22.0	8.50	11.21	16.22	1.81					
					seite 9							

29.41 2.67 0.07 10.0 2.46 Ster0001.001
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STATIONAERE WASSERSPIEGELLAGEN
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE HQ 100 Plan Damm Mündung
DATEI Ster0001

STERNE
SEITE 8

=====												
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW
ABFLUSS	NN+m/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS	KZD
3 + 694.00	264.76	0.00	10.0	0.00	0.00	0.00	0.00	0.000	264.92	0.390	1.000	0 0
29.41	2.62	29.41	22.0	8.07	10.84	16.73	1.76	0.00		3.58	1.000	
3 + 716.00	264.88	3.14	10.0	24.93	24.93	10.55	0.30	0.000	264.99	0.522	1.927	0 0
29.41	2.60	26.17	22.0	11.42	11.00	16.91	1.55	0.23		2.79	1.337	
3 + 780.00	265.06	0.01	10.0	1.09	1.13	0.13	0.06	0.000	265.10	0.224	1.127	0 0
29.41	2.30	28.97	22.0	23.30	24.14	36.85	0.79	0.14		0.73	1.056	
3 + 869.00	265.23	0.03	10.0	0.76	0.85	0.15	0.22	0.059	265.41	0.552	1.057	0 0
29.41	1.79	29.27	22.0	11.31	11.93	15.65	1.87	0.25		5.03	1.026	
3 + 955.00	265.75	0.00	10.0	0.00	0.00	0.00	0.00	0.002	265.95	0.605	1.000	0 0
28.05	1.65	28.05	22.0	12.49	13.15	13.99	2.00	0.00		7.65	1.000	
3 + 984.00	265.98	0.00	17.0	0.00	0.00	0.00	0.00	0.000	266.18	0.626	1.000	0 0
23.39	1.48	23.39	22.0	11.75	12.33	11.87	1.97	0.00		8.43	1.000	
3 + 985.00	265.93	0.00	17.0	0.00	0.00	0.00	0.00	0.000	266.44	1.000	1.000	4 5
23.39	1.41	23.39	22.0	7.22	8.65	7.39	3.17	0.00		25.58	1.000	
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++												

Ster0001.001

3	+ 986.00	266.29	0.00	17.0	0.00	0.00	0.00	0.00	12.15	13.72	0.00	1.70	0.000	266.44	0.478	1.000	0	0
	23.39	1.76	23.39	17.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10	1.000	1.000	0	0
4	+ 59.00	266.88	0.00	17.0	0.00	0.00	0.00	0.00	0.00	7.81	0.00	2.99	0.000	267.33	1.000	1.000	4	0
	23.39	1.29	23.39	17.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.02	1.000	1.000	0	0

+++++++
 Engstelle mit Fließwechsel, Energieminimum > EH(UW)
 iii Profitabstand zum Ow ueberprüfen iii

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009

PROJEKT Kl-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
 VARIANTE HQ 100 Plan Damm Mündung
 DATEI Ster0001

ERGBNISSE SEITE 9

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m3/s	K-WERT m^0.33/s	BREITTE m	UMFANG m	FLAECH m2	GESCHW m/s	HZV m	E-HOEHE NN+m	FROUDE IE 0/oo	ALPHA ALPHAS	KZW KZD
4	+ 236.00	268.69	0.00	17.0	0.19	0.01	0.11	0.000	268.82	0.476	1.017	0
	23.39	1.73	23.35	17.0	10.96	14.49	1.61	0.000	4.10	1.008	0	0
			0.04	17.0	1.42	0.15	0.24	0.000	0.00	0.00	0	0
4	+ 311.00	269.03	0.00	17.0	0.00	0.00	0.00	0.004	269.21	0.523	1.000	0
	23.39	1.69	23.39	17.0	0.00	0.00	0.00	0.000	6.24	1.000	0	0
			0.00	17.0	0.00	0.00	0.00	0.000	0.00	0.00	4	0
4	+ 316.00	268.85	0.00	17.0	0.00	0.00	0.00	0.170	269.56	1.000	1.000	4
	23.39	1.48	23.39	17.0	6.97	6.27	3.73	0.000	33.19	1.000	1.000	0
			0.00	17.0	0.00	0.00	0.00	0.000	0.00	0.00	0	0
4	+ 321.00	269.45	0.00	17.0	0.00	0.00	0.00	0.000	269.57	0.389	1.000	0
	23.39	2.01	23.39	17.0	11.62	15.52	1.51	0.000	3.19	1.000	1.000	0
			0.00	17.0	0.00	0.00	0.00	0.000	0.00	0.00	0	0

+++++++
 Engstelle mit Fließwechsel, Energieminimum > EH(UW)
 Ster0001.001
 SEITE 11

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009

PROJEKT Kl-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
 VARIANTE HQ 100 Plan Damm Mündung
 DATEI Ster0001

ERGBNISSE SEITE 10

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m3/s	K-WERT m^0.33/s	BREITTE m	UMFANG m	FLAECH m2	GESCHW m/s	HZV m	E-HOEHE NN+m	FROUDE IE 0/oo	ALPHA ALPHAS	KZW KZD
4	+ 619.00	270.91	0.73	10.0	19.18	3.36	0.22	0.000	271.07	0.763	2.131	0
	23.39	2.07	20.46	10.0	7.51	11.13	1.84	0.000	4.76	1.400	0	0
			2.20	10.0	11.33	5.31	0.41	0.000	0.00	0.00	0	0
4	+ 711.00	271.42	0.07	10.0	8.51	0.55 *	0.13	0.025	271.62	0.760	1.087	0
	23.39	1.83	23.32	10.0	9.52	11.86	1.97	0.000	6.66	1.041	1.041	0
			0.00	10.0	0.23	0.01	0.11	0.000	0.00	0.00	0	0

+++++++
 Engstelle mit Fließwechsel, Energieminimum > EH(UW)
 Ster0001.001
 SEITE 12

Ster0001.001

4 + 814.00	272.02	0.00	10.0	1.97	1.97	0.02	0.00	0.02	0.00	272.12	0.426	1.043	0
23.39	1.61	23.27	22.0	14.14	14.77	17.27	1.35	1.35	0.00	272.12	3.04	1.019	0
		0.12	10.0	1.44	1.59	0.49	0.25	0.25	0.00				
4 + 914.00	272.37	0.02	10.0	0.66	0.72	0.09	0.18	0.18	0.010	272.53	0.537	1.031	0
23.39	1.57	23.35	22.0	10.83	10.83	13.12	0.17	0.17	0.00	272.53	5.06	1.015	0
		0.03	10.0	1.21	1.24	0.15	0.17	0.17	0.00				
5 + 15.00	272.92	0.02	10.0	2.07	2.08	0.14	0.13	0.13	0.000	273.10	0.593	1.021	0
23.39	1.73	23.37	22.0	10.92	11.67	12.73	0.10	0.10	0.000	273.10	6.20	1.010	0
		0.00	10.0	0.22	0.24	0.01	0.10	0.10	0.000				
5 + 95.00	273.40	0.02	10.0	1.15	1.19	0.14	0.18	0.18	0.000	273.57	0.567	1.035	0
23.39	1.61	23.34	22.0	10.04	10.60	12.62	1.85	1.85	0.000	273.57	5.60	1.017	0
		0.03	10.0	0.71	0.79	0.13	0.22	0.22	0.000				
5 + 182.00	273.93	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.005	274.16	0.616	1.006	0
23.39	1.49	23.38	22.0	8.92	9.82	11.03	0.19	0.19	0.000	274.16	7.96	1.003	0
		0.01	10.0	0.23	0.41	0.04	0.19	0.19	0.000				
5 + 261.00	274.54	0.02	10.0	3.51	3.52	0.21	0.11	0.11	0.000	274.67	0.531	1.039	0
23.39	1.50	23.34	22.0	13.38	14.32	14.98	1.56	1.56	0.000	274.67	4.72	1.018	0
		0.03	10.0	0.61	0.73	0.12	0.21	0.21	0.000				
5 + 267.00	275.19	4.18	10.0	11.33	11.38	5.17	0.81	0.81	0.000	275.50	1.000	1.719	4
23.39	1.05	19.09	22.0	8.02	8.58	7.15	2.67	2.67	0.000	275.50	18.75	1.252	0
		0.12	10.0	1.46	1.51	0.27	0.44	0.44	0.000				

+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++

□

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE Hq 100 Plan Damm Mündung
DATEI Ster0001

SEITE 11

ERGESNISSE
=====

Seite 13

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m3/s	K-WERT m^0.33/s	BREITTE m	STER0001.001 UMFANG m	FLAECHE m2	GESCHW m/s	HZV m	E-HOEHE NN+M	FRONDE IE 0/oo	ALPHA	KZW	KZD
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5 + 358.00	275.90	0.00	10.0	0.00	0.00	0.00	0.00	0.039	276.16	0.800	1.014	0
23.39	1.74	23.38	22.0	9.19	10.00	10.25	2.28	0.00	276.16	10.43	1.007	0
		0.01	10.0	3.25	3.27	0.08	0.08	0.000				

5 + 428.00	276.53	0.13	10.0	3.22	3.24	0.59	0.22	0.000	276.70	0.604	1.172	0
23.39	1.80	23.06	22.0	8.68	9.56	12.54	1.84	0.000	276.70	4.86	1.077	0
		0.20	10.0	2.99	3.03	0.74	0.27	0.000				

5 + 434.00	276.63	0.00	10.0	0.00	0.00	0.00	0.00	0.000	276.74	0.454	1.000	0
23.39	1.84	23.39	16.0	14.32	15.63	15.71	1.49	0.000	276.74	8.59	1.000	0
		0.00	10.0	0.00	0.00	0.00	0.00	0.000				

5 + 448.00	276.74	0.38	11.0	8.14	8.79	1.74	0.22	0.000	276.83	0.523	1.891	0
23.39	1.67	20.53	18.0	10.05	10.05	14.95	1.37	0.000	276.83	3.43	1.322	0
		2.48	10.7	22.07	24.81	8.24	0.30	0.000				

5 + 501.00	276.96	0.06	10.0	1.24	1.31	0.26	0.25	0.013	277.07	0.439	1.025	0
23.39	1.56	23.33	18.0	13.07	13.61	16.00	0.06	0.000	277.07	5.29	1.011	0
		0.00	10.0	0.19	0.20	0.00	0.06	0.000				

5 + 592.00	277.59	0.01	10.0	0.34	0.47	0.06	0.24	0.010	277.77	0.573	1.007	0
23.39	1.61	23.38	18.0	10.71	11.39	12.33	1.90	0.000	277.77	9.98	1.003	0
		0.00	10.0	0.04	0.04	0.00	0.00	0.000				

5 + 662.00	278.21	0.45	10.0	7.54	7.55	1.61	0.28	0.000	278.34	0.581	1.179	0
23.39	1.78	22.94	18.0	10.93	11.59	14.24	1.61	0.000	278.34	6.08	1.078	0
		0.00	10.0	2.22	2.22	0.07	0.07	0.000				

5 + 778.00	279.22	0.00	10.0	0.00	0.00	0.00	0.00	0.024	279.46	0.637	1.004	0
23.39	1.62	23.38	18.0	8.99	9.74	10.79	2.17	0.000	279.46	12.66	1.002	0
		0.01	10.0	0.16	0.37	0.03	0.20	0.000				

5 + 876.00	280.30	1.34	10.0	20.00	20.00	4.24	0.32	0.000	280.47	0.795	1.607	0
23.39	1.72	21.93	18.0	8.32	8.93	11.53	1.90	0.000	280.47	7.95	1.240	0
		0.11	10.0	1.02	1.18	0.31	0.36	0.000				

5 + 943.00	280.84	2.15	10.0	11.17	11.17	4.54	0.47	0.000	280.98	0.611	1.469	0
23.39	1.89	21.13	18.0	9.51	10.12	12.10	1.75	0.000	280.98	7.41	1.180	0
		0.11	10.0	1.75	1.82	0.37	0.30	0.000				

6 + 9.00	281.28	1.15	10.0	14.06	14.08	3.72	0.31	0.000	281.42	0.623	1.446	0
23.39	1.97	22.18	18.0	8.99	9.70	13.30	1.67	0.000	281.42	5.64	1.182	0
		0.06	10.0	1.88	1.97	0.28	0.21	0.000				

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Seite 14

STATIONAERE WASSERSPIEGELLAGEN
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009
PROJEKT K1-strieg + 1.00 bis 0 + 15240.00 m
ZUSTAND Station 0
VARIANTE HQ 100 Plan Damm Mündung
DATEI Ster0001

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	=====			UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+m	FROUDE IE 0/00	ALPHA ALPHAS	KZW KZD
				BREITTE m	Umfang	Fläche								
6 + 71.00	281.62	22.24	10.0	6.82	6.83	1.19	0.19	0.000	281.72	0.477	1.233	0	0	
22.87	1.95	0.40	10.0	3.41	3.50	1.27	0.32	0.000	281.72	3.90	1.100	0	0	
6 + 102.00	281.74	0.07	10.0	4.19	4.19	0.45	0.16	0.001	281.85	0.503	1.139	0	0	
21.60	1.82	0.23	10.0	3.19	3.24	0.83	0.28	0.000	281.85	4.83	1.062	0	0	
6 + 110.00	281.76	0.00	10.0	0.00	0.00	0.00	0.00	0.000	281.88	0.324	1.000	12	0	
21.60	1.89	0.00	18.0	6.70	4.13	14.48	1.49	0.000	281.88	1.29	1.000	0	0	
6 + 122.00	281.78	0.00	10.0	0.00	0.00	0.00	0.00	0.002	281.92	0.406	1.000	0	0	
21.60	2.41	0.00	18.0	7.51	9.85	12.95	1.67	0.000	281.92	5.97	1.000	0	0	
6 + 230.00	282.27	0.05	10.0	0.99	1.10	0.24	0.20	0.000	282.41	0.452	1.030	0	0	
21.60	2.06	0.00	25.0	8.99	9.97	13.14	1.64	0.000	282.41	2.98	1.014	0	0	
6 + 343.00	282.63	0.05	10.0	5.02	5.03	0.45	0.12	0.000	282.76	0.570	1.100	0	0	
21.60	1.53	0.05	25.0	10.80	12.15	13.48	1.56	0.000	282.76	3.31	1.047	0	0	
6 + 410.00	282.93	0.00	10.0	0.00	0.00	0.00	0.00	0.028	283.19	0.707	1.000	0	0	
21.60	1.42	0.00	10.0	9.22	10.06	9.57	2.26	0.000	283.19	8.71	1.000	0	0	
6 + 505.00	283.65	0.08	10.0	1.36	1.43	0.30	0.25	0.000	283.85	0.631	1.087	0	0	
21.60	1.56	0.07	25.0	9.09	9.56	10.95	1.96	0.000	283.85	5.12	1.040	0	0	
6 + 589.00	284.16	0.00	10.0	0.00	0.00	0.00	0.00	0.003	284.39	0.674	1.000	0	0	
21.60	1.55	0.00	10.0	0.00	0.00	0.00	0.00	0.003	284.39	0.674	1.000	0	0	

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6 + 731.00	285.03	0.03	10.0	0.49	0.94	0.15	0.23	0.001	285.22	0.621	1.022	0	0	
21.60	1.26	0.00	25.0	11.04	11.33	11.18	1.93	0.000	285.22	6.06	1.010	0	0	
6 + 650.00	284.61	0.00	10.0	0.48	0.49	0.03	0.10	0.000	284.78	0.592	1.033	0	0	
21.60	1.44	0.04	25.0	11.09	11.51	11.94	1.81	0.000	284.78	4.97	1.015	0	0	
ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH Zwackauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0														
STATIONAERE WASSERSPIEGELLAGEN														
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009														
PROJEKT K1-strieg + 1.00 bis 0 + 15240.00 m														
ZUSTAND Station 0														
VARIANTE HQ 100 Plan Damm Mündung														
DATEI Ster0001														

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STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	=====			UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+m	FROUDE IE 0/00	ALPHA ALPHAS	KZW KZD
				BREITTE m	Umfang	Fläche								
6 + 740.00	285.03	0.00	10.0	0.10	0.16	0.01	0.18	0.000	285.39	1.000	1.001	4	0	
21.60	1.18	0.00	10.0	11.31	11.69	8.15	2.65	0.000	285.39	23.45	1.001	0	0	
6 + 757.00	285.34	0.01	10.0	0.50	0.54	0.05	0.16	0.000	285.51	0.579	1.007	0	0	
21.60	1.37	0.00	10.0	0.00	0.00	0.00	0.00	0.000	285.51	6.93	1.003	0	0	
6 + 834.00	285.97	0.04	10.0	0.88	0.92	0.13	0.29	0.010	286.24	0.785	1.029	0	0	
21.60	1.48	0.01	10.0	9.47	9.86	9.32	2.31	0.000	286.24	11.92	1.014	0	0	
6 + 918.00	286.78	2.00	10.0	15.22	15.29	5.70	0.35	0.000	286.94	0.722	2.246	0	0	
21.60	1.71	0.93	10.0	6.38	6.59	9.67	1.93	0.000	286.94	4.62	1.429	0	0	
6 + 920.00	286.78	0.00	10.0	0.00	0.00	0.00	0.00	0.039	287.00	0.561	1.000	31	5	
21.60	1.67	0.00	10.0	7.44	9.38	10.40	2.08	0.000	287.00	7.77	1.000	0	0	

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STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+M/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+M	IE o/oo	ALPHAS		
Ster0001.001													
6 + 922.00	286.76	0.00	10.0	0.00	0.00	6.22	0.00	0.000	287.38	1.000	1.000	4	0
21.60	1.55	0.00	10.0	0.00	6.80	6.22	0.00	0.000	287.38	28.06	1.000		
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
6 + 935.00	287.23	0.79	10.0	10.18	10.19	2.42	0.33	0.000	287.47	0.831	1.688	0	0
21.60	2.09	20.03	10.0	5.11	6.94	8.98	2.23	0.000	287.47	7.30	1.267		
6 + 939.00	287.30	1.17	10.0	12.24	12.26	3.53	0.33	0.000	287.49	0.740	1.844	0	0
21.60	2.19	19.52	10.0	5.11	6.94	9.48	2.06	0.000	287.49	5.77	1.314		
6 + 949.00	287.32	0.00	10.0	0.00	0.00	0.00	0.00	0.000	287.59	0.592	1.307	31	5
21.60	2.47	19.62	10.0	3.82	7.44	8.18	2.40	0.016	287.59	10.48	1.119		
6 + 959.00	287.46	0.00	10.0	0.00	0.00	0.00	0.00	0.000	287.68	0.559	1.340	0	0
21.60	2.34	2.11	10.0	4.28	7.23	8.87	2.20	0.000	287.68	7.59	1.131		
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STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009													
PROJEKT Kl-strieg													
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m													
VARIANTE HQ 100 Plan Damm Mündung													
DATEI Ster0001													
ERGEBNISSE													
SEITE 14													
7 + 34.00	287.93	0.18	10.0	7.44	7.51	1.21 *	0.14	0.000	288.04	0.487	1.389	0	0
21.60	2.39	20.66	10.0	8.00	8.83	14.08	1.47	0.000	288.04	2.39	1.161		
7 + 90.00	288.07	0.12	10.0	9.20	9.28	1.01 *	0.12	0.001	288.18	0.567	1.242	0	0
21.60	2.33	1.94	10.0	4.02	4.28	3.01	0.65	0.000	287.73	6.69	1.130	0	0
6 + 966.00	287.52	0.00	10.0	0.12	0.15	0.01	0.09	0.000	287.73	0.554	1.333	0	0
21.60	2.07	18.48	10.0	9.59	10.24	15.27	1.21	0.000	288.35	0.394	1.935	0	0
7 + 161.00	288.28	0.08	10.0	2.12	2.18	0.50	0.16	0.000	288.35	1.77	1.330	0	0
21.60	1.82	0.00	10.0	0.28	0.29	0.01	0.05	0.014	288.58	0.386	1.001	0	0
7 + 253.00	288.49	0.00	10.0	12.91	13.69	16.15	1.34	0.000	288.58	2.96	1.000	0	0
21.60	1.61	4.96	10.0	9.09	9.96	11.89	1.40	0.000	288.92	0.428	1.554	0	0
7 + 364.00	288.84	0.00	10.0	0.00	0.00	0.00	0.00	0.000	288.92	3.20	1.191	0	0
21.60	1.50	0.00	10.0	0.00	0.00	0.00	0.00	0.039	289.43	0.577	1.004	0	0
7 + 458.00	289.25	0.00	10.0	10.26	10.98	11.48	1.88	0.000	289.43	6.89	1.002	0	0
21.60	1.56	6.06	10.0	15.42	15.58	0.03	0.15	0.000	289.98	0.428	1.282	0	0
7 + 567.50	289.91	0.00	10.0	0.00	0.00	0.00	0.00	0.000	289.98	3.20	1.097	0	0
21.60	1.48	0.00	10.0	10.72	11.67	10.52	2.05	0.049	290.06	0.662	1.000	31	5
7 + 571.00	289.85	0.00	10.0	0.00	0.00	0.00	0.00	0.000	290.06	10.00	1.000	0	0
21.60	1.29	0.00	10.0	6.94	7.88	6.91	3.12	0.000	290.21	24.03	1.000	4	0
7 + 574.50	289.72	0.00	10.0	0.00	0.00	0.00	0.00	0.000	290.21	24.03	1.000	4	0
21.60	1.29	0.00	10.0	0.00	0.00	0.00	0.00	0.000	290.21	24.03	1.000	4	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH Zwackauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0													
STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009													
PROJEKT Kl-strieg													
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m													
VARIANTE HQ 100 Plan Damm Mündung													
DATEI Ster0001													
ERGEBNISSE													
SEITE 15													

STATION	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ^{0.35} /s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
7 + 577.00	289.80	0.00	10.0	0.00	0.00	0.00	0.00	0.000	290.26	0.954	1.000	0
21.60	1.33	21.60	10.6	7.02	7.99	7.16	3.02	0.000	290.26	21.79	1.000	0
7 + 587.00	290.22	0.00	10.0	0.00	0.00	0.00	0.00	0.000	290.41	0.438	1.000	12
21.60	2.30	21.60	22.0	5.69	10.09	11.22	1.92	0.000	290.41	6.64	1.000	0
7 + 596.00	290.22	0.00	10.0	0.00	0.00	0.00	0.00	0.008	290.49	0.597	1.000	0
21.60	2.03	21.60	22.0	6.13	8.87	9.35	2.31	0.000	290.49	10.26	1.000	0
7 + 675.00	291.01	0.00	10.0	0.00	0.00	0.00	0.00	0.000	291.29	0.640	1.000	0
21.60	2.17	21.60	10.0	0.00	0.00	0.00	0.00	0.000	291.29	9.95	1.000	0
7 + 744.00	291.65	0.00	10.0	1.45	1.45	0.07	0.05	0.000	291.70	0.306	1.043	0
20.93	2.23	20.87	22.0	2.96	3.01	21.13	0.99	0.000	291.70	1.63	1.020	0
7 + 778.00	291.70	0.00	10.0	0.10	0.33	0.02	0.05	0.000	291.75	0.299	1.013	0
18.30	2.11	18.29	22.0	15.48	17.41	19.08	0.96	0.000	291.75	1.68	1.006	0
7 + 784.00	291.67	0.00	10.0	0.00	0.00	0.00	0.00	0.016	291.78	0.000	1.000	31
18.30	2.04	18.30	40.0	14.24	29.22	12.03	1.52	0.000	291.78	4.72	1.000	5
7 + 790.00	291.77	0.00	10.0	0.04	0.05	0.00	0.00	0.000	291.81	0.240	1.000	9
18.30	2.14	18.30	40.0	16.77	17.81	21.49	0.85	0.000	291.81	0.35	1.000	0
7 + 795.00	291.76	0.00	10.0	0.00	0.00	0.00	0.00	0.003	291.82	0.274	1.000	31
18.30	2.12	18.30	40.0	10.75	13.23	16.99	1.08	0.000	291.82	0.52	1.000	5
7 + 801.00	291.74	0.00	10.0	0.40	0.43	0.03	0.05	0.001	291.82	0.393	1.014	0
18.30	2.12	18.30	40.0	12.30	13.09	14.63	1.25	0.000	291.82	0.84	1.007	0
7 + 852.00	291.71	0.00	10.0	0.00	0.00	0.00	0.00	0.028	291.95	0.821	1.207	0
18.30	1.79	18.16	40.0	6.47	7.90	8.28	2.19	0.000	291.95	2.83	1.095	0

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Zwitschauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0
STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009
PROJEKT Kl.-Strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE Hq 100 Plan Damm Mündung
DATEI Ster0001
STER0001.001
DATUM : 17.06.2009
SEITE 16

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ERGEBNISSE

STATION	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ^{0.35} /s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
7 + 900.00	291.86	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.07	0.857	1.259	0
18.30	1.71	18.14	40.0	7.90	8.70	8.83	2.05	0.000	292.07	2.58	1.118	0
7 + 934.00	292.01	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.14	0.661	1.774	0
18.30	1.96	17.66	40.0	8.26	9.13	10.84	1.63	0.000	292.14	1.32	1.313	0
7 + 937.00	291.98	0.00	10.0	0.00	0.00	0.00	0.00	0.026	292.17	0.501	1.000	11
18.30	1.94	18.30	40.0	6.41	8.96	9.55	1.92	0.000	292.17	2.11	1.000	0
7 + 941.00	292.04	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.17	0.588	1.193	0
18.30	2.03	18.18	40.0	9.26	10.22	11.44	1.59	0.000	292.17	1.36	1.089	0
7 + 948.00	292.06	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.18	0.557	1.274	0
18.30	2.10	18.11	40.0	9.37	10.35	12.07	1.50	0.000	292.18	1.14	1.123	0
7 + 987.00	292.08	0.00	10.0	0.00	0.00	0.00	0.00	0.008	292.25	0.642	1.069	0
18.30	1.90	18.27	40.0	4.39	9.97	10.23	1.79	0.000	292.25	1.93	1.033	0
7 + 990.00	292.08	0.00	10.0	0.00	0.00	0.00	0.00	0.001	292.26	0.481	1.000	31
18.30	1.87	18.30	40.0	6.13	9.03	9.67	1.89	0.000	292.26	2.04	1.000	5
7 + 993.00	292.11	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.26	0.424	1.000	0
18.30	1.86	18.30	40.0	6.32	9.28	10.63	1.72	0.000	292.26	1.55	1.000	0
8 + 27.00	292.15	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.32	0.457	1.000	0
18.30	1.78	18.30	40.0	6.31	9.12	10.10	1.81	0.000	292.32	1.79	1.000	0

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STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ 0.33/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
8 + 34.00	292.13	18.30	40.0	6.37	8.78	9.07	2.02	0.002	292.34	0.540	1.000	31	5
18.30	1.73	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.34	2.44	1.000		
8 + 41.00	292.15	18.30	40.0	6.12	8.70	8.89	2.06	0.000	292.36	0.545	1.000	0	0
18.30	1.72	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.36	2.57	1.000		
ICL Ingenieur Consult Dr.-Ing. A. Kolbmuehler GmbH Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0													
STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009													
PROJEKT Kl-strieg ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m VARIANTE HQ 100 Plan Damm Muehung DATEI Ster0001													
ERGEBNISSE =====													
STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ 0.33/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
8 + 89.00	292.26	18.30	40.0	6.11	8.52	8.36	2.19	0.001	292.50	0.598	1.000	0	0
18.30	1.63	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.50	3.07	1.000		
8 + 95.00	292.29	18.30	40.0	6.28	8.77	8.70	2.10	0.000	292.52	0.571	1.000	31	5
18.30	1.64	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.52	2.80	1.000		
8 + 101.00	292.31	18.30	40.0	6.24	9.01	8.53	2.15	0.000	292.54	0.586	1.000	0	0
18.30	1.74	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.54	3.10	1.000		
8 + 150.00	292.45	18.30	40.0	5.99	8.57	8.44	2.17	0.000	292.69	0.583	1.000	0	0
18.30	1.74	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.69	3.00	1.000		
8 + 206.00	292.66	18.30	40.0	6.52	9.21	10.00	1.83	0.000	292.83	0.472	1.000	0	0
18.30	1.68	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.83	1.88	1.000		
8 + 243.00	292.73	18.30	40.0	6.75	9.26	9.77	1.87	0.000	292.90	0.497	1.000	0	0
18.30	1.59	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.90	2.04	1.000		
Ster0001.001 seite 21													

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ 0.33/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
8 + 244.00	292.73	18.30	40.0	6.75	9.25	9.76	1.87	0.000	292.91	0.498	1.000	31	5
18.30	1.59	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.91	2.05	1.000		
8 + 245.00	292.74	18.30	40.0	7.20	9.48	10.13	1.81	0.000	292.91	0.486	1.000	0	0
18.30	1.61	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.91	1.87	1.000		
8 + 253.00	292.72	18.30	40.0	6.26	8.89	8.90	2.06	0.003	292.93	0.551	1.000	0	0
18.30	1.67	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.93	3.04	1.000		
8 + 254.00	292.72	18.30	40.0	6.26	8.92	8.98	2.04	0.000	292.93	0.543	1.000	31	5
18.30	1.68	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.93	2.57	1.000		
8 + 255.00	292.72	18.30	40.0	6.26	8.93	9.03	2.03	0.000	292.93	0.539	1.000	0	0
18.30	1.69	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.93	2.91	1.000		
ICL Ingenieur Consult Dr.-Ing. A. Kolbmuehler GmbH Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0													
STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009													
PROJEKT Kl-strieg ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m VARIANTE HQ 100 Plan Damm Muehung DATEI Ster0001													
ERGEBNISSE =====													
STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ 0.33/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
8 + 274.00	292.72	18.30	40.0	5.30	7.87	7.52	2.43	0.008	293.02	0.653	1.000	0	0
18.30	1.78	0.00	10.0	0.00	0.00	0.00	0.00	0.000	293.02	5.03	1.000		
8 + 275.00	292.77	18.30	40.0	5.31	7.98	7.80	2.35	0.000	293.05	0.619	1.000	31	5
18.30	1.83	0.00	10.0	0.00	0.00	0.00	0.00	0.000	293.05	56.78	1.000		
8 + 276.00	292.82	18.30	40.0	5.32	8.08	8.06	2.27	0.000	293.08	0.589	1.000	0	0
18.30	1.88	0.00	10.0	0.00	0.00	0.00	0.00	0.000	293.08	6.38	1.000		
Ster0001.001 seite 22													

8 + 300.00	292.96	18.30	40.0	5.61	Ster0001.001	8.48	8.51	2.15	0.000	293.20	0.557	1.000	0
18.30	1.93	0.00	10.0	0.00	0.00	0.00	0.00	0.00		0.00	2.87	1.000	0
8 + 309.00	292.99	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.000	293.22	0.554	1.000	0
18.30	1.93	0.00	10.0	0.00	0.00	0.00	0.00	0.00		0.00	2.84	1.000	0
8 + 341.00	293.06	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.001	293.33	0.615	1.000	0
18.30	1.82	0.00	10.0	0.00	0.00	0.00	0.00	0.00		0.00	3.47	1.000	0
8 + 347.00	293.22	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.000	293.34	0.391	1.000	11
18.30	1.95	0.00	10.0	0.00	0.00	0.00	0.00	0.00		0.00	1.28	1.000	0
8 + 353.00	293.21	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.001	293.35	0.434	1.000	0
18.30	1.93	0.00	10.0	0.00	0.00	0.00	0.00	0.00		0.00	1.56	1.000	0
8 + 357.00	293.22	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.000	293.36	0.435	1.000	0
18.30	1.92	0.00	10.0	0.00	0.00	0.00	0.00	0.00		0.00	1.57	1.000	0
8 + 398.00	293.24	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.015	293.48	0.659	1.000	0
18.30	1.56	0.00	10.0	0.00	0.00	0.00	0.00	0.00		0.00	3.62	1.000	0
8 + 402.00	293.33	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.000	293.50	0.000	1.000	11
18.30	1.61	0.00	10.0	0.00	0.00	0.00	0.00	0.00		0.00	4.15	1.000	0
ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH Zwitckauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0													
STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009													
DATUM : 17.06.2009													
PROJEKT Kl-strieg ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m VARIANTE HQ 100 Plan Damm Mündung DATEI Ster0001													
ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ^{0.33} /s	m	m	m ²	m/s	m	NN+m	IE o/oo			
8 + 406.00	293.33	18.30	40.0	7.13	Ster0001.001	9.41	9.49	1.93	0.000	293.52	0.534	1.000	9
18.30	1.67	0.00	10.0	0.00	0.00	0.00	0.00	0.00		2.30	1.000	0	
8 + 410.00	293.35	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.000	293.53	0.493	1.000	0
18.30	1.74	0.00	10.0	0.00	0.00	0.00	0.00	0.00		1.96	1.000	0	
8 + 459.00	293.73	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.000	294.21	1.000	1.000	4
18.30	1.17	0.00	10.0	0.00	0.00	0.00	0.00	0.00		8.20	1.000	0	
++++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) !! Profilabstand zum Ow ueberpruefen !! ++++++++													
8 + 511.00	294.21	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.000	294.66	1.000	1.000	4
18.30	1.21	0.00	10.0	0.00	0.00	0.00	0.00	0.00		8.83	1.000	0	
8 + 560.00	294.61	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.000	294.96	0.837	1.000	0
18.30	1.33	0.00	10.0	0.00	0.00	0.00	0.00	0.00		6.15	1.000	0	
8 + 572.00	294.60	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.000	295.08	1.000	1.000	4
18.30	1.25	0.00	10.0	0.00	0.00	0.00	0.00	0.00		9.11	1.000	0	
++++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++++													
8 + 578.00	294.82	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.000	295.10	0.693	1.000	0
18.30	1.63	0.00	10.0	0.00	0.00	0.00	0.00	0.00		4.29	1.000	0	
8 + 604.00	294.96	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.000	295.20	0.606	1.000	0
18.30	1.74	0.00	10.0	0.00	0.00	0.00	0.00	0.00		3.29	1.000	0	
8 + 605.00	294.98	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.000	295.20	0.578	1.000	11
18.30	1.76	0.00	10.0	0.00	0.00	0.00	0.00	0.00		2.90	1.000	0	
8 + 606.00	294.96	18.30	40.0	0.00	0.00	0.00	0.00	0.00	0.000	295.20	0.607	1.000	0
18.30	1.74	0.00	10.0	0.00	0.00	0.00	0.00	0.00		2.75	1.000	0	
ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH Zwitckauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0													
STATIONAERE WASSERSPIEGELLAGEN													

Seite 23

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE Hq 100 Plan Damm Mündung
DATEI Ster0001

SEITE 20

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	BREITTE m	UMFANG m	FLÄCHE m ²	GESCHW m/s	HZV m	E-HOEH NN+m	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD	ERGEBNISSE	
													=====	=====
8 + 610.00 18.30	294.97 1.75	0.00 0.00	10.0 10.0	0.00 0.00	0.00 9.21	0.00 8.47	0.00 2.16	0.000 0.000	295.21	0.603 3.26	1.000 1.000	0 0		
8 + 624.00 18.30	295.01 1.73	0.00 0.00	10.0 10.0	0.00 0.00	0.00 8.75	0.00 8.22	0.00 2.23	0.000 0.000	295.26	0.607 3.37	1.000 1.000	0 0		
8 + 625.00 18.30	294.97 1.62	0.00 0.00	10.0 10.0	0.00 0.00	0.00 8.53	0.00 7.55	0.00 2.42	0.002	295.28	0.688 4.31	1.000 1.000	11 0		
8 + 626.00 18.30	294.98 1.61	0.00 0.00	10.0 10.0	0.00 0.00	0.00 8.52	0.00 7.52	0.00 2.43	0.000	295.28	0.692 4.36	1.000 1.000	0 0		
8 + 630.00 18.30	295.00 1.60	0.00 0.00	10.0 10.0	0.00 0.00	0.00 8.51	0.00 7.68	0.00 2.38	0.000	295.29	0.673 4.06	1.000 1.000	0 0		
8 + 631.00 18.30	295.01 1.60	0.00 0.00	10.0 10.0	0.00 0.00	0.00 8.50	0.00 7.66	0.00 2.39	0.000	295.30	0.676 4.10	1.000 1.000	11 0		
8 + 632.00 18.30	295.01 1.60	0.00 0.00	10.0 10.0	0.00 0.00	0.00 8.50	0.00 7.66	0.00 2.39	0.000	295.30	0.676 4.10	1.000 1.000	0 0		
8 + 643.00 18.30	295.08 1.63	0.00 0.00	10.0 10.0	0.00 0.00	0.00 8.70	0.00 8.18	0.00 2.24	0.000	295.34	0.617 3.39	1.000 1.000	0 0		
8 + 644.00 18.30	295.11 1.66	0.00 0.00	10.0 10.0	0.00 0.00	0.00 8.63	0.00 8.67	0.00 2.11	0.000	295.34	0.566 2.77	1.000 1.000	11 0		

seite 25

ICL Ingenieur consult Dr.-Ing. A. Kolbmüller GmbH
Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0

STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 17.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE Hq 100 Plan Damm Mündung
DATEI Ster0001

SEITE 21

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	BREITTE m	UMFANG m	FLÄCHE m ²	GESCHW m/s	HZV m	E-HOEH NN+m	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD	ERGEBNISSE	
													=====	=====
8 + 645.00 18.30	295.09 1.63	18.30 0.00	40.0 10.0	6.10 0.00	8.71 0.00	8.20 0.00	2.23 0.00	0.001	295.35	0.615 3.37	1.000 1.000	0 0		
8 + 659.00 18.30	295.14 1.57	0.00 0.00	10.0 10.0	0.00 0.00	0.00 8.79	0.00 8.16	0.00 2.24	0.000	295.40	0.609 3.47	1.000 1.000	0 0		
8 + 661.00 18.30	295.12 1.55	0.00 0.00	10.0 10.0	0.00 0.00	0.00 8.42	0.00 7.67	0.00 2.39	0.001	295.41	0.661 4.04	1.000 1.000	12 0		
8 + 663.00 18.30	295.15 1.58	0.00 0.00	10.0 10.0	0.00 0.00	0.00 8.60	0.00 8.15	0.00 2.25	0.000	295.41	0.612 3.39	1.000 1.000	0 0		
8 + 680.00 18.30	295.21 1.58	0.00 0.00	10.0 10.0	0.00 0.00	0.00 8.61	0.00 8.18	0.00 2.24	0.000	295.47	0.608 3.35	1.000 1.000	0 0		
8 + 687.00 18.30	295.27 1.63	0.00 0.00	10.0 10.0	0.00 0.00	0.00 9.26	0.00 8.86	0.00 2.06	0.000	295.48	0.564 2.83	1.000 1.000	0 0		
8 + 688.00 18.30	295.27 1.63	0.00 0.00	10.0 10.0	0.00 0.00	0.00 9.27	0.00 8.87	0.00 2.06	0.000	295.49	0.563 2.82	1.000 1.000	11 0		
8 + 689.00 18.30	295.27 1.63	0.00 0.00	10.0 10.0	0.00 0.00	0.00 9.27	0.00 8.87	0.00 2.06	0.000	295.49	0.563 2.82	1.000 1.000	0 0		

seite 26

8 + 711.00	295.36	18.30	40.0	7.18	Ster0001.001	9.64	9.77	1.87	0.000	295.54	0.513	1.000	0	0
18.30	1.64	0.00	10.0	0.00		0.00	0.00	0.00			2.16	1.000		
8 + 718.00	295.33	DH 18.30	40.0	0.00		0.00	0.00	0.00	0.006	295.58	0.000	1.000	11	0
18.30	1.59	0.00	40.0	0.00		16.38	8.30	2.20		7.51	0.000	1.000		
8 + 721.00	295.48	0.00	10.0	0.00		0.00	0.00	0.00	0.000	0.454	0.000	1.000	9	0
18.30	1.66	0.00	40.0	0.00		10.49	10.79	1.70		1.73	0.000	1.000		
8 + 772.00	295.58	0.00	10.0	0.00		0.00	0.00	0.00	0.000	0.384	0.000	1.000	0	0
18.30	1.83	0.00	40.0	0.00		10.83	0.00	0.00		1.26	0.000	1.000		
8 + 778.00	295.47	0.00	10.0	0.00		0.00	0.00	0.00	0.035	295.75	0.661	1.000	12	0
18.30	1.73	0.00	40.0	0.00		8.59	8.59	2.35		3.92	0.000	1.000		
ICL Ingenieur Consult Dr.-Ing. A. Kolbmüller GmbH Zwitschauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0														
STATIONAERE					WASSERSPIEGELLAGEN									
PROGRAMM WSPR2009 (C.) Knauf 2009														
PROGRAMM WSPR2009 (C.) Knauf 2009														
PROJEKT Kl-strieg														
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m														
VARIANTE HQ 100 Plan Damm Mündung														
DATEI Ster0001														
DATUM : 17.06.2009														
SEITE 22														
=====														
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLÄCHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD	
ABFLUSS	NN+m/m	m3/s	m^0.33/s	m	m	m2	m/s	m	NN+m	IE o/oo	ALPHAS			
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
8 + 784.00	295.54	18.30	40.0	6.67	9.44	8.70	2.10	0.000	295.77	0.588	1.000	0	0	
18.30	1.79	0.00	10.0	0.00	0.00	0.00	0.00		3.08	0.000	1.000			
8 + 787.00	295.55	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.78	0.588	1.000	0	0	
18.30	1.79	0.00	40.0	6.67	9.44	8.71	2.10		3.08	0.000	1.000			
8 + 846.00	295.71	18.30	40.0	6.62	8.80	6.59	2.78	0.023	296.10	0.888	1.000	0	0	
18.30	1.47	0.00	10.0	0.00	0.00	0.00	0.00		7.07	0.000	1.000			
Ster0001.001														
8 + 852.00	295.79	DH 18.30	40.0	5.99	14.07	6.81	2.69	0.000	296.16	0.000	1.000	11	0	
18.30	1.50	0.00	10.0	0.00	0.00	0.00	0.00		11.87	0.000	1.000			
8 + 858.00	295.84	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.23	0.746	1.000	9	0	
18.30	1.63	0.00	40.0	4.87	7.91	6.69	2.74		5.85	0.000	1.000			
8 + 862.00	295.92	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.24	0.652	1.000	0	0	
18.30	1.76	0.00	40.0	4.88	8.17	7.32	2.50		4.51	0.000	1.000			
8 + 897.00	296.14	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.37	0.522	1.000	0	0	
18.30	2.00	0.00	40.0	5.08	8.62	8.61	2.13		2.83	0.000	1.000			
8 + 898.00	296.17	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.37	0.459	1.000	11	0	
18.30	2.04	0.00	40.0	5.08	8.79	9.37	1.95		2.19	0.000	1.000			
8 + 899.00	296.15	0.00	10.0	0.00	0.00	0.00	0.00	0.001	296.38	0.516	1.000	0	0	
18.30	2.01	0.00	40.0	5.08	8.65	8.67	2.11		2.77	0.000	1.000			
8 + 921.00	296.22	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.43	0.497	1.000	0	0	
18.30	1.98	0.00	40.0	5.48	8.78	9.12	2.01		2.39	0.000	1.000			
8 + 922.00	296.11	DH 18.30	10.0	0.00	0.00	0.00	0.00	0.018	296.46	0.000	1.000	11	0	
18.30	1.87	0.00	40.0	5.42	13.44	7.05	2.60		9.96	0.000	1.000			
ICL Ingenieur Consult Dr.-Ing. A. Kolbmüller GmbH Zwitschauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0														
STATIONAERE					WASSERSPIEGELLAGEN									
PROGRAMM WSPR2009 (C.) Knauf 2009														
PROGRAMM WSPR2009 (C.) Knauf 2009														
PROJEKT Kl-strieg														
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m														
VARIANTE HQ 100 Plan Damm Mündung														
DATEI Ster0001														
DATUM : 17.06.2009														
SEITE 23														
=====														
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLÄCHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD	
ABFLUSS	NN+m/m	m3/s	m^0.33/s	m	m	m2	m/s	m	NN+m	IE o/oo	ALPHAS			
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====

ERGEBNISSE														
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLÄCHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD	
ABFLUSS	NN+m/m	m3/s	m^0.33/s	m	m	m2	m/s	m	NN+m	IE o/oo	ALPHAS			
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			
Ster0001														
SEITE 28														

8 + 973.00	296.31	18.30	40.0	5.40	Ster0001.001	8.89	10.19	1.80	0.000	296.47	0.418	1.000	9	0
18.30	2.06	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.00	1.68	1.000	1.000		
8 + 931.00	296.31	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.000	296.49	0.446	1.000	0	0
18.30	1.97	0.00	40.0	5.40	8.73	9.75	0.00	1.88	0.000	1.90	1.000	1.000		
8 + 976.00	296.40	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.000	296.57	0.425	1.000	0	0
18.30	2.04	0.00	40.0	5.51	8.90	10.13	0.00	1.81	0.000	1.72	1.000	1.000		
9 + 15.00	296.48	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.001	296.67	0.468	1.000	0	0
18.30	1.92	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.000	3.65	1.000	1.000		
9 + 18.00	296.44	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.004	296.70	0.000	1.000	11	0
18.30	1.87	0.00	30.0	5.75	13.81	8.25	0.00	2.22	0.000	10.85	1.000	1.000		
9 + 21.00	296.50	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.000	0.674	0.674	1.012	9	0
18.30	1.98	0.00	30.0	2.53	8.45	2.55	0.05	2.15	0.000	5.09	1.006	1.006		
9 + 26.00	296.56	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.000	0.637	0.637	1.156	0	0
18.30	2.15	0.00	10.0	5.73	8.79	5.60	0.83	0.17	0.000	3.71	1.072	1.072		
9 + 79.00	296.77	18.30	10.0	9.66	9.67	1.06	0.11	0.11	0.000	0.626	0.626	1.189	0	0
18.30	2.11	0.11	30.0	6.86	8.83	11.04	0.06	1.65	0.000	2.24	1.088	1.088		
9 + 149.00	296.93	18.30	10.0	16.12	16.12	3.63	0.20	0.20	0.001	0.721	0.721	1.657	0	0
18.30	1.78	0.72	30.0	6.38	8.54	0.00	0.00	1.78	0.000	2.89	1.267	1.267		
9 + 181.00	297.02	18.30	10.0	3.55	3.56	0.09	0.05	0.05	0.014	0.612	0.612	1.019	0	0
18.30	1.82	0.00	30.0	6.37	8.64	9.64	0.00	1.90	0.000	3.46	1.009	1.009		
9 + 186.00	296.98	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.010	297.26	0.000	1.000	11	0
18.30	1.77	0.00	30.0	6.51	15.24	7.87	0.00	2.33	0.000	14.50	1.000	1.000		

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Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0

STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 17.06.2009
seite 29

PROJEKT Kl-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE Hq 100 Plan Damm Mündung
DATEI Ster0001

Ster0001.001

SEITE 24

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m3/s	K-WERT m^0.35/s	BREITTE m	UMFANG m	FLAECHE m2	GESCHW m/s	HZV m	E-HOEH NN+M	FROUDE IE o/oo	ALPHA	KZW	KZD	ERGEBNISSE	
														=====	=====
9 + 191.00	297.20	18.30	10.0	0.00	0.00	0.00	0.00	0.000	297.31	0.351	1.000	9	0		
18.30	2.14	0.00	30.0	6.99	10.00	12.46	1.47	0.00	0.000	1.79	1.000	1.000			
9 + 195.00	297.22	18.28	10.0	5.81	5.82	0.39	0.06	0.000	297.31	0.419	1.055	0	0		
18.30	2.27	0.00	30.0	7.00	10.20	13.40	1.36	0.00	0.000	1.44	1.027	1.027			
9 + 214.00	297.23	18.30	10.0	0.00	0.00	0.00	0.00	0.004	297.36	0.400	1.000	0	0		
18.30	1.99	0.00	30.0	6.99	9.70	11.42	0.00	0.000	2.30	1.000	1.000				
9 + 215.00	297.19	18.12	10.0	0.00	0.00	0.00	0.00	0.001	297.37	0.000	1.068	11	0		
18.30	1.94	0.18	30.0	9.00	9.03	9.48	0.36	0.000	0.000	7.29	1.030	1.030			
9 + 216.00	297.26	18.29	10.0	0.01	0.01	0.00	0.00	0.000	297.38	0.383	1.013	9	0		
18.30	2.01	0.01	30.0	7.67	9.85	12.34	1.48	0.000	1.81	1.006	1.006				
9 + 235.00	297.28	18.29	10.0	0.52	0.89	0.06	0.09	0.003	297.42	0.438	1.011	0	0		
18.30	2.01	0.00	30.0	6.48	9.07	10.73	1.70	0.000	2.58	1.005	1.005				
9 + 236.00	297.23	18.30	10.0	0.00	0.00	0.00	0.00	0.005	297.44	0.000	1.000	11	0		
18.30	1.96	0.00	30.0	6.37	14.92	9.15	2.00	0.000	8.53	1.000	1.000				
9 + 237.00	297.31	18.29	10.0	0.78	1.02	0.08	0.09	0.000	297.45	0.454	1.015	9	0		
18.30	2.05	0.00	30.0	6.50	9.14	10.97	1.67	0.000	2.43	1.007	1.007				
9 + 243.00	297.29	18.30	10.0	0.03	0.04	0.00	0.00	0.003	297.48	0.459	1.000	0	0		
18.30	2.04	0.00	30.0	5.41	8.45	9.60	1.91	0.000	3.41	1.000	1.000				
9 + 248.00	297.29	18.30	10.0	0.00	0.00	0.00	0.00	0.002	297.51	0.000	1.000	11	0		
18.30	2.04	0.00	30.0	5.38	13.53	8.79	2.08	0.000							

seite 30

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECH	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+M/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+M	IE o/oo	ALPHAS	KZW	KZD
18.30	2.05	0.00	10.0	0.00	0.00	0.00	0.00	0.00					
Ster0001.001													
9 + 233.00	297.37	0.00	10.0	0.00	0.00	0.00	0.00	0.00					
18.30	2.08	0.00	10.0	5.42	8.54	9.82	1.86	0.000	297.55	0.442	1.000	9	0
ICL Ingenieur Consult Dr.-Ing. A. Kolbmeijer GmbH Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0													
STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009													
PROJEKT K1-strieg													
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m													
VARIANTE HQ 100 Plan Damm Mündung													
DATEI Ster0001													
ERGEBNISSE													
9 + 270.00	297.43	0.00	10.0	0.00	0.00	0.00	0.00	0.00					
18.30	1.96	0.00	10.0	5.58	8.60	9.69	1.89	0.000	297.61	0.499	1.001	0	0
9 + 271.00	297.38	0.00	10.0	0.00	0.00	0.00	0.00	0.00					
18.30	1.90	0.00	10.0	0.00	13.67	8.38	2.18	0.005	297.62	0.000	1.000	11	0
9 + 272.00	297.46	0.00	10.0	0.00	0.00	0.00	0.00	0.00					
18.30	1.99	0.00	10.0	5.59	8.62	9.82	1.86	0.000	297.64	0.500	1.006	9	0
9 + 280.00	297.52	0.00	10.0	0.00	0.00	0.00	0.00	0.00					
18.30	2.03	0.00	10.0	6.13	9.46	10.60	1.73	0.000	297.67	0.441	1.007	0	0
9 + 281.00	297.51	0.00	10.0	0.00	0.00	0.00	0.00	0.00					
18.30	2.02	0.00	10.0	5.67	14.54	10.01	1.83	0.001	297.68	0.000	1.002	11	0
9 + 282.00	297.55	0.01	10.0	0.00	0.57	0.01	0.05	0.000	297.70	0.486	1.042	9	0
18.30	2.06	0.01	10.0	1.75	9.08	10.76	1.70	0.000	297.70	0.486	1.042	9	0
9 + 307.00	297.61	0.01	10.0	0.73	1.18	0.12	0.11	0.000	297.76	0.427	1.022	0	0
18.29	18.29	0.01	10.0	5.68	8.36	10.61	1.72	0.000	297.76	0.427	1.022	0	0
Ster0001.001													
18.30	2.11	0.00	10.0	0.06	0.30	0.01	0.05	0.000	297.78	0.000	1.009	11	0
9 + 308.00	297.57	0.00	10.0	0.00	0.00	0.00	0.00	0.004	297.78	0.000	1.004	11	0
18.30	2.07	0.00	10.0	5.68	14.02	9.13	2.00	0.000	297.78	7.90	1.004	11	0
9 + 309.00	297.64	0.01	10.0	0.77	0.91	0.10	0.11	0.000	297.79	0.425	1.016	9	0
18.30	2.14	0.00	10.0	0.15	8.91	10.77	1.70	0.000	297.79	2.49	1.008	9	0
9 + 336.00	297.68	0.00	10.0	0.00	0.00	0.00	0.00	0.005	297.88	0.481	1.000	0	0
18.30	1.98	0.00	10.0	5.30	8.28	9.22	1.99	0.000	297.88	3.80	1.000	0	0
9 + 337.00	297.69	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.89	0.482	1.000	11	0
18.30	1.98	0.00	10.0	5.30	8.28	9.20	1.99	0.000	297.89	3.82	1.000	11	0
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STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009													
PROJEKT K1-strieg													
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m													
VARIANTE HQ 100 Plan Damm Mündung													
DATEI Ster0001													
ERGEBNISSE													
9 + 338.00	297.69	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.90	0.487	1.000	0	0
18.30	1.97	0.00	10.0	5.30	8.25	9.13	2.00	0.000	297.90	3.90	1.000	0	0
9 + 352.00	297.83	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.93	0.356	1.000	0	0
18.30	1.86	0.00	10.0	7.77	10.39	12.80	1.43	0.000	297.93	1.72	1.000	0	0
9 + 354.00	297.83	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.94	0.372	1.000	11	0
18.30	1.83	0.00	10.0	8.12	10.51	12.62	1.45	0.000	297.94	1.83	1.000	11	0
9 + 356.00	297.83	0.00	10.0	0.69	0.78	0.06	0.08	0.000	297.94	0.372	1.009	0	0
18.30	1.83	0.00	10.0	7.76	10.38	12.75	1.44	0.000	297.94	0.372	1.009	0	0
Seite 32													

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECH	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+M/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+M	IE o/oo	ALPHAS	KZW	KZD
18.30	2.11	0.00	10.0	0.06	0.30	0.01	0.05	0.000	297.76	0.427	1.022	0	0
Ster0001.001													
9 + 308.00	297.57	0.00	10.0	0.00	0.00	0.00	0.00	0.004	297.78	0.000	1.009	11	0
18.30	2.07	0.00	10.0	5.68	14.02	9.13	2.00	0.000	297.78	7.90	1.004	11	0
9 + 309.00	297.64	0.01	10.0	0.77	0.91	0.10	0.11	0.000	297.79	0.425	1.016	9	0
18.30	2.14	0.00	10.0	0.15	8.91	10.77	1.70	0.000	297.79	2.49	1.008	9	0
9 + 336.00	297.68	0.00	10.0	0.00	0.00	0.00	0.00	0.005	297.88	0.481	1.000	0	0
18.30	1.98	0.00	10.0	5.30	8.28	9.22	1.99	0.000	297.88	3.80	1.000	0	0
9 + 337.00	297.69	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.89	0.482	1.000	11	0
18.30	1.98	0.00	10.0	5.30	8.28	9.20	1.99	0.000	297.89	3.82	1.000	11	0
ICL Ingenieur Consult Dr.-Ing. A. Kolbmeijer GmbH Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0													
STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009													
PROJEKT K1-strieg													
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m													
VARIANTE HQ 100 Plan Damm Mündung													
DATEI Ster0001													
ERGEBNISSE													
9 + 338.00	297.69	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.90	0.487	1.000	0	0
18.30	1.97	0.00	10.0	5.30	8.25	9.13	2.00	0.000	297.90	3.90	1.000	0	0
9 + 352.00	297.83	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.93	0.356	1.000	0	0
18.30	1.86	0.00	10.0	7.77	10.39	12.80	1.43	0.000	297.93	1.72	1.000	0	0
9 + 354.00	297.83	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.94	0.372	1.000	11	0
18.30	1.83	0.00	10.0	8.12	10.51	12.62	1.45	0.000	297.94	1.83	1.000	11	0
9 + 356.00	297.83	0.00	10.0	0.69	0.78	0.06	0.08	0.000	297.94	0.372	1.009	0	0
18.30	1.83	0.00	10.0	7.76	10.38	12.75	1.44	0.000	297.94	0.372	1.009	0	0
Seite 32													

PROJEKT Kl-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE Hq 100 Plan Damm Mündung
DATEI Ster0001

Ster0001.001

SEITE 28

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /s	=====				UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+m	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
				BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s								
9 + 648.00	298.86	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.025	299.07	0.630	1.000	0 0
	18.30	1.61	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			4.77	1.000	
9 + 650.00	298.85	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	299.09	0.000	1.000	11 0
	18.30	1.57	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			12.50	1.000	
9 + 652.00	298.99	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	299.12	0.441	1.000	9 0
	18.30	1.88	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			2.41	1.000	
9 + 656.00	299.00	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	299.12	0.435	1.000	0 0
	18.30	1.89	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			2.35	1.000	
9 + 708.00	299.11	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.003	299.27	0.490	1.000	0 0
	18.30	2.05	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			3.17	1.000	
9 + 722.00	299.10	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.010	299.35	0.635	1.000	0 0
	18.30	1.76	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			5.55	1.000	
9 + 733.00	299.23	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	299.40	0.449	1.000	11 0
	18.30	1.73	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			3.25	1.000	
9 + 738.00	299.26	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	299.44	0.464	1.000	0 0
	18.30	1.80	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			3.29	1.000	
9 + 795.00	299.50	18.29	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	299.60	0.433	1.016	0 0
	18.30	1.99	10.0	0.01	0.00	0.00	0.00	0.00	0.00	0.08			2.67	1.008	
9 + 845.00	299.64	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.015	299.84	0.599	1.000	0 0
	18.30	1.94	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			6.26	1.000	

seite 35

Ster0001.001

ICL Ingenieur Consult Dr.-Ing. A. Kolbmuejler GmbH
Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0

STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE Hq 100 Plan Damm Mündung
DATEI Ster0001

SEITE 29

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /s	=====				UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+m	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
				BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s								
9 + 957.00	300.21	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	300.36	0.503	1.000	0 0
	18.30	1.83	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			4.32	1.000	
9 + 997.00	300.39	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.006	300.60	0.634	1.000	0 0
	18.30	1.63	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			7.04	1.000	
10 + 2.00	300.43	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	300.64	0.509	1.000	11 0
	18.30	1.69	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			6.05	1.000	
10 + 9.00	300.44	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	300.67	0.540	1.000	0 0
	18.30	1.66	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			6.87	1.000	
10 + 57.00	300.80	18.17	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	300.85	0.277	1.079	0 0
	18.30	1.70	10.0	0.13	0.00	0.00	0.00	0.00	0.15	0.00			1.07	1.036	
10 + 65.00	301.29	18.30	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	301.59	1.000	1.000	4 0
	18.30	0.77	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00			19.61	1.000	

+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)

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10 + 70.00	301.48	18.24	25.0	12.90	Ster0001,001	13.27	11.60	1.57	0.000	301.61	0.684	1.093	0	0
18.30	1.31	0.06	10.0	9.78	9.78	0.59	0.59	0.11	0.000	301.61	4.74	1.044	0	0
10 + 112.00	301.66	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.004	301.82	0.540	1.000	0	0
18.30	1.44	0.00	10.0	0.00	10.06	10.23	0.00	0.00	0.000	301.82	5.01	1.000	0	0
10 + 163.00	301.91	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.023	302.22	0.661	1.000	0	0
18.30	1.83	0.00	10.0	0.00	7.36	7.45	0.00	2.46	0.000	302.22	9.51	1.000	0	0
10 + 200.00	302.26	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.014	302.71	0.858	1.000	0	0
18.30	1.59	0.00	10.0	0.00	6.75	6.14	0.00	2.98	0.000	302.71	16.15	1.000	0	0

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE HQ 100 Plan Damm Mündung
DATEI Sterf0001

ERGEBNISSE
SEITE 30

10 + 258.00	302.82	18.30	25.0	5.06	Ster0001,001	8.67	10.13	1.81	0.000	303.00	0.408	1.000	11	0
18.30	2.30	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.000	303.00	4.25	1.000	11	0
10 + 267.00	302.90	0.02	10.0	1.45	1.58	0.15	0.11	0.11	0.000	303.00	0.407	1.020	0	0
18.30	1.97	0.00	10.0	0.00	11.24	12.97	0.00	1.41	0.000	303.00	2.62	1.010	0	0
10 + 320.00	303.05	0.01	10.0	0.91	0.92	0.05	0.12	0.12	0.040	303.32	0.586	1.010	0	0
18.30	2.03	0.00	10.0	4.27	7.59	7.99	2.29	2.29	0.000	303.32	7.82	1.005	0	0
10 + 335.00	303.18	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.000	303.45	0.642	1.000	0	0
18.30	1.95	0.00	10.0	0.08	9.21	8.00	0.00	0.00	0.000	303.45	10.11	1.000	0	0
10 + 340.00	303.20	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.004	303.54	0.000	1.000	11	0
18.30	1.99	0.00	10.0	0.00	12.60	7.10	0.00	2.58	0.000	303.54	22.83	1.000	11	0
10 + 345.00	303.53	0.32	10.0	10.78	10.82	2.26	0.14	0.14	0.000	303.61	0.548	1.660	9	0
18.30	2.17	0.32	10.0	7.76	10.40	14.19	0.11	0.11	0.000	303.61	1.64	1.270	9	0
10 + 349.00	303.53	0.09	10.0	10.33	10.38	0.95	0.09	0.09	0.004	303.62	0.622	1.245	0	0
18.30	2.05	0.05	10.0	7.67	10.27	13.25	1.37	1.37	0.000	303.62	2.14	1.112	0	0

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE HQ 100 Plan Damm Mündung
DATEI Sterf0001

ERGEBNISSE
SEITE 31

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ 0,33/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEH NN+m	FRUDE IE 0/00	ALPHA ALPHAS	KZW KZD
10 + 478.00 18.30	303.81 2.17	15.31 2.13	25.0 10.0	8.19 18.92	9.10 18.95	13.54 9.63	1.13 0.22	0.000	303.86	0.511 1.20	3.140 1.668	0 0
10 + 530.00 18.30	303.90 2.18	0.21 0.00	10.0 10.0	11.38 6.93	11.39 8.46	1.30 0.00	0.16 0.00	0.059	304.07	0.760 4.58	1.243 1.109	0 0
10 + 534.00 18.30	303.85 2.19	0.00 18.30	10.0 25.0	0.00 4.45	0.00 12.02	0.00 7.67	0.00 2.39	0.027	304.14	0.000 16.59	1.000 1.000	11 0
10 + 538.00 18.30	304.14 2.38	0.64 16.54	10.0 25.0	20.16 11.99	20.16 13.67	4.79 6.29	0.13 0.99	0.000	304.19	0.400 1.20	2.047 1.382	9 0
10 + 543.00 18.30	304.15 2.35	0.55 16.78	10.0 25.0	18.63 11.99	18.64 13.67	4.09 16.28	0.13 1.03	0.000	304.20	0.422 1.35	1.932 1.349	0 0
10 + 600.00 18.30	304.23 1.91	0.47 17.83	10.0 25.0	4.49 6.35	4.82 8.34	1.54 9.83	0.30 1.81	0.041	304.39	0.558 4.23	1.239 1.103	0 0
10 + 664.00 18.30	304.54 2.27	0.01 18.29	10.0 25.0	2.40 6.37	2.40 8.96	0.09 8.89	0.09 2.06	0.009	304.75	0.649 6.84	1.018 1.009	0 0
10 + 691.00 18.30	304.70 2.04	0.00 18.30	10.0 25.0	0.00 5.88	0.00 8.21	0.00 7.49	0.00 2.44	0.008	305.00	0.691 10.77	1.000 1.000	0 0
10 + 694.00 18.30	304.70 2.00	0.00 18.30	10.0 25.0	0.00 4.82	0.00 11.86	0.00 6.95	0.00 2.63	0.002	305.06	0.000 22.64	1.000 1.000	11 0
10 + 697.00 18.30	305.01 2.26	0.00 18.30	10.0 25.0	2.02 10.39	2.02 12.18	0.04 13.00	0.04 1.81	0.000	305.11	0.438 2.90	1.007 1.003	9 0

Ster0001.001

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 17.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE HQ 100 Plan Damm Mündung

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DATEI Ster0001

Ster0001.001
SEITE 32

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ERGEBNISSE

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ 0,33/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEH NN+m	FRUDE IE 0/00	ALPHA ALPHAS	KZW KZD
10 + 702.00 18.30	305.01 2.19	0.00 18.30	10.0 25.0	0.00 9.80	0.00 11.57	0.00 12.27	0.00 1.49	0.000	305.13	0.425 3.29	1.000 1.000	0 0
10 + 752.00 18.30	305.19 2.18	0.29 13.24	10.0 25.0	5.18 6.24	5.22 7.98	1.65 11.10	0.18 1.19	0.000	305.24	0.361 1.47	2.620 1.487	0 0
10 + 780.00 18.30	305.23 2.11	0.95 13.29	10.0 25.0	19.92 6.24	19.93 7.98	5.48 10.70	0.17 1.24	0.000	305.29	0.434 1.67	3.047 1.596	0 0
10 + 794.00 18.30	305.33 0.85	0.04 1.18	10.0 25.0	3.70 9.39	3.71 9.58	0.23 1.57	0.16 0.75	0.000	305.37	0.351 10.10	1.016 1.007	0 0
10 + 800.00 18.30	305.35 2.14	0.53 12.95	10.0 25.0	14.07 6.02	14.09 8.13	3.41 10.74	0.16 1.21	0.002	305.41	0.399 1.61	2.854 1.543	0 0
10 + 851.00 18.30	305.44 2.23	0.00 18.30	10.0 25.0	0.00 6.01	0.00 8.98	0.00 11.48	0.00 1.59	0.049	305.57	0.442 2.93	1.011 1.006	0 0
10 + 860.00 18.30	305.48 2.27	0.00 18.30	10.0 25.0	0.00 7.54	0.00 10.00	0.00 12.30	0.00 1.49	0.000	305.60	0.372 2.69	1.000 1.000	11 0
10 + 867.00 18.30	305.50 2.12	0.00 18.30	10.0 25.0	0.00 9.15	0.00 10.82	0.00 11.90	0.00 1.54	0.000	305.62	0.431 3.33	1.000 1.000	0 0
10 + 926.00 18.30	305.68 2.07	1.08 16.25	12.0 25.0	5.47 6.36	5.56 6.36	2.83 9.77	0.38 1.66	0.005	305.80	0.514 2.49	1.674 1.251	0 0
11 + 6.00 18.30	306.02 2.18	0.00 18.30	12.0 25.0	0.00 5.16	0.00 7.38	0.00 7.73	0.00 2.37	0.068	306.30	0.617 8.41	1.000 1.000	0 0
11 + 10.00	306.11	0.00	12.0	0.00	9.33	8.62	0.00	0.000	306.34	0.346	1.000	12 0

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18.30 2.25 0.00 25.0 0.00 0.00 Ster0001.001
 ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH
 Zwackauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0
 STATIONAERE WASSERSPIEGELLAGEN
 PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009
 PROJEKT Kl-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
 VARIANTE Hq 100 Plan Damm Mündung
 DATEI Ster0001
 ERGEBNISSE
 SEITE 33

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ /0.35/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FRUDE IE 0/00	ALPHA ALPHAS	KZW KZD
11 + 14.00	306.31	0.00	12.0	0.00	0.00	0.00	0.00	0.000	306.35	0.189	1.000	0 0
18.30	2.60	0.00	12.0	0.00	12.78	19.64	0.93	0.000	306.35	0.78	1.000	0 0
11 + 66.00	306.35	0.04	12.0	3.40	3.40	0.30	0.13	0.020	306.48	0.487	1.046	0 0
18.30	2.06	0.00	12.0	0.00	0.00	11.44	1.60	0.000	306.48	3.14	1.022	0 0
11 + 119.00	306.52	0.00	12.0	0.00	0.00	0.00	0.00	0.000	306.64	0.429	1.000	0 0
18.30	2.16	0.00	12.0	0.00	10.34	11.93	1.53	0.000	306.64	3.11	1.000	0 0
11 + 172.00	306.71	0.00	12.0	0.00	0.00	0.00	0.00	0.000	306.78	0.368	1.000	0 0
18.30	1.97	0.00	12.0	0.00	15.13	14.94	1.22	0.000	306.78	2.44	1.000	0 0
11 + 221.00	306.83	3.10	12.0	12.74	12.78	6.44	0.48	0.000	306.94	0.518	1.670	0 0
18.30	1.95	0.00	12.0	5.52	7.52	9.29	1.64	0.000	306.94	4.03	1.238	0 0
11 + 257.00	307.00	0.00	12.0	0.00	0.00	0.00	0.00	0.075	307.28	0.595	1.000	0 0
18.30	2.04	0.00	12.0	4.75	7.58	7.71	2.37	0.000	307.28	10.97	1.000	0 0
11 + 262.00	307.13	0.00	12.0	0.00	0.00	0.00	0.00	0.000	307.33	0.402	1.000	12 0
18.30	2.17	0.00	12.0	3.78	8.58	9.28	1.97	0.000	307.33	5.60	1.000	0 0
11 + 266.00	307.17	0.00	12.0	0.00	0.00	0.00	0.00	0.000	307.34	0.455	1.000	0 0
18.30	2.16	0.00	12.0	0.00	8.82	10.05	1.82	0.000	307.34	0.455	1.000	0 0

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18.30 2.16 0.00 12.0 0.00 0.00 Ster0001.001
 ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH
 Zwackauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0
 STATIONAERE WASSERSPIEGELLAGEN
 PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009
 PROJEKT Kl-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
 VARIANTE Hq 100 Plan Damm Mündung
 DATEI Ster0001
 ERGEBNISSE
 SEITE 34

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ /0.35/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FRUDE IE 0/00	ALPHA ALPHAS	KZW KZD
11 + 270.00	307.19	0.00	12.0	0.00	0.00	0.00	0.00	0.000	307.37	0.470	1.000	0 0
18.30	2.11	0.00	12.0	6.09	8.71	9.81	1.87	0.000	307.37	5.71	1.000	0 0
11 + 315.00	307.45	0.00	12.0	0.00	0.00	0.00	0.00	0.000	307.58	0.430	1.000	0 0
18.30	1.49	0.00	12.0	8.05	10.66	11.42	1.60	0.000	307.58	3.75	1.000	0 0
11 + 319.00	307.97	0.00	12.0	0.00	0.00	0.00	0.00	0.000	308.35	1.000	1.000	4 0
18.30	0.93	0.00	12.0	9.11	10.63	6.77	2.70	0.000	308.35	21.28	1.000	0 0

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STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECH	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m3/s	m/0.33/s	m	m	m2	m/s	m	NN+m	IE o/oo	ALPHAS		
11 + 538.00	309.36	0.26	12.0	8.13	8.14	1.15	0.23	0.000	309.46	0.612	1.160	0	0
16.31	2.08	0.00	12.0	0.00	0.00	0.00	0.00	0.000	309.46	4.98	1.071	0	0
11 + 595.00	309.63	0.70	12.0	15.03	15.11	2.35 *	0.30	0.000	309.86	1.000	1.545	4	0
16.31	1.74	0.00	12.0	5.20	7.33	0.03	0.09	0.000	309.86	7.46	1.223	0	0
+++++++	Engstelle mit Fließwechsel,			Energieminimum >				EH(UW)					
11 + 614.00	309.83	0.00	12.0	0.00	0.00	0.00	0.00	0.036	310.16	0.799	1.000	0	0
16.31	1.88	0.00	12.0	6.29	8.29	0.00	0.00	0.000	310.16	14.35	1.000	0	0
11 + 627.00	310.12	0.00	12.0	0.00	0.00	0.00	0.00	0.000	310.29	0.452	1.000	11	0
16.31	2.12	0.00	12.0	5.58	9.00	0.00	0.00	0.000	310.29	5.16	1.000	0	0
11 + 640.00	310.27	0.48	12.0	3.85	4.13	1.86	0.26	0.000	310.33	0.369	1.788	0	0
16.31	3.01	14.37	25.0	6.73	9.30	12.80	1.12	0.000	310.33	1.32	1.288	0	0
11 + 687.00	310.31	0.64	12.0	11.38	11.40	2.76	0.23	0.003	310.42	0.633	1.980	0	0
16.31	2.07	14.85	25.0	5.73	6.99	9.64	1.54	0.000	310.42	2.47	1.362	0	0
16.31	2.07	0.82	12.0	11.23	11.30	3.19	0.26						
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STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009													
PROJEKT Kl-strieg													
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m													
VARIANTE HQ 100 Plan Damm Mündung													
DATEI Ster0001													
SEITE 35													
=====													
ERGEBNISSE													
Ster0001.001													
11 + 738.00	310.44	1.33	12.0	8.93	8.97	3.76	0.35	0.000	310.55	0.559	1.837	0	0
16.31	1.82	14.29	25.0	6.45	7.03	9.10	1.57	0.000	310.55	2.79	1.303	0	0
16.31	1.69	0.01	12.0	5.29	5.87	2.14	0.32						
11 + 793.00	310.60	0.00	12.0	0.00	0.00	0.00	0.00	0.014	310.79	0.692	1.454	0	0
16.31	1.81	1.06	12.0	7.72	7.75	2.51	0.42						
Ster0001.001													
11 + 842.00	310.98	0.59	12.0	23.79	23.79	2.79	0.21	0.000	311.17	1.000	1.629	4	0
16.31	1.69	15.71	25.0	5.41	7.49	8.09	1.94	0.000	311.17	5.44	1.258	0	0
16.31	1.87	0.96	12.0	11.82	11.84	3.78	0.26						
11 + 908.00	311.31	0.05	12.0	13.64	13.64	0.68	0.07	0.000	311.40	0.603	1.600	0	0
16.31	1.87	15.30	25.0	7.82	8.90	11.39	1.34	0.000	311.40	2.08	1.239	0	0
11 + 939.00	311.35	0.00	14.2	0.00	0.00	0.00	0.00	0.040	311.59	0.922	1.274	0	0
16.31	1.73	15.97	25.0	6.65	7.41	7.32	2.18	0.000	311.59	7.74	1.120	0	0
16.31	1.73	0.34	12.0	8.61	8.65	1.21	0.28						
11 + 962.00	311.54	0.00	12.0	0.00	0.00	0.00	0.00	0.000	311.75	0.837	1.190	0	0
16.31	1.79	16.14	25.0	5.64	7.77	7.98	2.02	0.000	311.75	6.32	1.086	0	0
11 + 974.00	311.71	0.00	12.0	0.00	0.00	0.00	0.00	0.000	311.80	0.511	1.849	0	0
16.31	2.19	14.46	25.0	5.64	8.17	10.23	1.41	0.000	311.80	2.37	1.311	0	0
11 + 975.00	311.65	0.00	12.0	0.00	0.00	0.00	0.00	0.056	311.86	0.000	1.000	11	0
16.31	2.15	0.00	12.0	6.13	14.03	8.05	2.03	0.000	311.86	13.76	1.000	0	0
11 + 976.00	311.80	0.08	12.0	7.33	7.49	0.69	0.12	0.000	311.88	0.519	1.196	9	0
16.31	2.20	16.13	25.0	9.73	12.11	12.87	1.25	0.000	311.88	2.32	1.089	0	0
16.31	2.20	0.09	12.0	7.25	7.25	0.74	0.13						

Seite 43

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECH	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m3/s	m/0.33/s	m	m	m2	m/s	m	NN+m	IE o/oo	ALPHAS		
11 + 876.00	311.17	0.00	14.6	0.00	0.00	0.00	0.00	0.000	311.30	0.480	1.000	0	0
16.31	1.80	16.31	25.0	8.58	9.61	10.03	1.63	0.000	311.30	3.99	1.000	0	0
11 + 908.00	311.31	0.05	12.0	13.64	13.64	0.68	0.07	0.000	311.40	0.603	1.600	0	0
16.31	1.87	15.30	25.0	7.82	8.90	11.39	1.34	0.000	311.40	2.08	1.239	0	0
11 + 939.00	311.35	0.00	14.2	0.00	0.00	0.00	0.00	0.040	311.59	0.922	1.274	0	0
16.31	1.73	15.97	25.0	6.65	7.41	7.32	2.18	0.000	311.59	7.74	1.120	0	0
16.31	1.73	0.34	12.0	8.61	8.65	1.21	0.28						
11 + 962.00	311.54	0.00	12.0	0.00	0.00	0.00	0.00	0.000	311.75	0.837	1.190	0	0
16.31	1.79	16.14	25.0	5.64	7.77	7.98	2.02	0.000	311.75	6.32	1.086	0	0
11 + 974.00	311.71	0.00	12.0	0.00	0.00	0.00	0.00	0.000	311.80	0.511	1.849	0	0
16.31	2.19	14.46	25.0	5.64	8.17	10.23	1.41	0.000	311.80	2.37	1.311	0	0
11 + 975.00	311.65	0.00	12.0	0.00	0.00	0.00	0.00	0.056	311.86	0.000	1.000	11	0
16.31	2.15	0.00	12.0	6.13	14.03	8.05	2.03	0.000	311.86	13.76	1.000	0	0
11 + 976.00	311.80	0.08	12.0	7.33	7.49	0.69	0.12	0.000	311.88	0.519	1.196	9	0
16.31	2.20	16.13	25.0	9.73	12.11	12.87	1.25	0.000	311.88	2.32	1.089	0	0
16.31	2.20	0.09	12.0	7.25	7.25	0.74	0.13						

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 17.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE HQ 100 Plan Damm Mündung
DATEI Ster0001

SEITE 36

Seite 44

STER0001.001													
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STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECH	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS		
11 + 979.00	311.77	0.00	12.0	0.00	0.00	0.00	0.00	0.010	311.91	0.577	1.018	0	0
16.31	2.04	0.01	12.0	3.29	11.86	10.16	0.08	0.010	311.91	5.06	1.009	0	0
12 + 31.00	312.00	0.00	12.0	1.73	1.73	0.02 *	0.03	0.000	312.12	0.622	1.214	0	0
16.31	2.12	0.25	12.0	8.68	8.85	10.26	0.19	0.000	312.12	3.22	1.095	0	0
12 + 45.00	312.00	0.00	12.0	0.00	0.00	0.00	0.00	0.023	312.23	0.642	1.000	0	0
16.31	1.79	0.00	12.0	7.24	8.22	7.81	2.09	0.000	312.23	7.46	1.000	0	0
12 + 47.00	311.76	0.00	12.0	0.00	0.00	0.00	0.00	0.104	312.40	0.000	1.000	11	0
16.31	1.55	0.00	12.0	0.00	0.00	0.00	0.00	0.000	312.40	53.71	1.000	0	0
12 + 49.00	312.41	0.69	12.0	9.36	9.40	1.81	0.38	0.000	312.62	1.000	2.070	4	0
16.31	2.26	14.28	12.0	3.92	7.37	6.52	2.19	0.000	312.62	9.06	1.379	0	0
16.31	2.26	1.34	12.0	13.21	13.22	3.09	0.43	0.000	312.62	9.06	1.379	0	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++													
12 + 56.00	312.57	1.19	12.0	11.08	11.33	4.25	0.28	0.000	312.63	0.420	2.746	0	0
16.31	2.48	10.15	12.0	3.23	5.66	7.50	1.35	0.000	312.63	2.01	1.487	0	0
16.31	2.48	4.97	12.0	21.76	21.85	13.03	0.38	0.087	313.16	7.94	1.010	0	0
12 + 111.00	312.68	0.00	12.0	0.64	0.64	0.01	0.02	0.000	312.71	0.257	1.522	0	0
16.31	2.29	14.66	12.0	13.54	14.61	18.60	0.79	0.000	312.71	0.72	1.199	0	0
16.31	2.29	1.65	12.0	16.66	16.74	8.23	0.20	0.000	312.71	0.72	1.199	0	0
12 + 160.00	312.71	2.20	12.0	21.46	21.47	6.98	0.31	0.004	312.81	0.637	2.620	0	0
16.31	1.85	12.87	12.0	5.06	5.19	7.89	1.53	0.000	312.81	3.08	1.509	0	0
16.31	1.85	1.24	12.0	7.41	7.46	3.25	0.38	0.000	312.81	0.637	2.620	0	0
12 + 207.00	312.90	0.00	12.0	0.00	0.00	0.00	0.00	0.087	313.16	0.899	1.021	0	0
16.31	1.81	16.31	12.0	6.74	7.30	7.31	0.08	0.000	313.16	7.94	1.010	0	0
16.31	1.81	0.00	12.0	6.74	6.74	0.00	0.06	0.000	313.16	7.94	1.010	0	0
12 + 216.00	312.95	0.00	12.0	0.00	0.00	0.00	0.00	0.002	313.24	0.651	1.000	0	0
16.31	1.71	16.31	12.0	4.98	7.11	6.83	2.39	0.000	313.24	9.62	1.000	0	0
16.31	1.71	0.00	12.0	0.00	0.00	0.00	0.00	0.000	313.24	9.62	1.000	0	0

ICL Ingenieur Consult Dr.-Ing. A. Kolbmeier GmbH
 Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0
 Ster0001.001
 Seite 45

STER0001.001													
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STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECH	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS		
12 + 220.00	312.95	0.00	12.0	0.00	0.00	0.00	0.00	0.005	313.32	0.000	1.008	11	0
16.31	1.76	16.30	12.0	4.33	11.40	6.04	2.70	0.000	313.32	27.19	1.004	0	0
16.31	1.76	0.01	12.0	0.61	0.62	0.03	0.26	0.000	313.32	27.19	1.004	0	0
12 + 224.00	313.32	0.00	12.0	0.00	0.00	0.00	0.00	0.000	313.39	0.446	2.029	9	0
16.31	2.46	11.86	12.0	23.29	23.34	11.23	0.40	0.000	313.39	2.90	1.328	0	0
16.31	2.46	4.45	12.0	23.29	23.34	11.23	0.40	0.000	313.39	2.90	1.328	0	0
12 + 227.00	313.34	0.03	12.0	6.80	6.86	0.37 *	0.08	0.000	313.40	0.399	2.040	0	0
16.31	2.55	11.38	12.0	5.25	8.12	9.35	1.22	0.000	313.40	1.97	1.328	0	0
16.31	2.55	4.91	12.0	20.39	20.62	12.72	0.39	0.000	313.40	1.97	1.328	0	0
12 + 276.00	313.42	0.69	12.0	9.49	9.52	3.08	0.22	0.002	313.49	0.456	1.705	0	0
16.31	1.96	15.06	12.0	7.79	8.78	12.26	1.23	0.000	313.49	1.55	1.272	0	0
16.31	1.96	0.56	12.0	9.03	9.03	2.67	0.21	0.000	313.49	1.55	1.272	0	0
12 + 320.00	313.49	0.00	12.0	0.00	0.00	0.00	0.00	0.030	313.63	0.538	1.021	0	0
16.31	1.71	16.30	12.0	2.22	8.74	9.65	1.69	0.000	313.63	4.00	1.010	0	0
16.31	1.71	0.01	12.0	2.22	2.22	0.11	0.10	0.000	313.63	4.00	1.010	0	0
12 + 328.00	313.55	0.00	12.0	0.00	0.00	0.00	0.00	0.000	313.68	0.000	1.000	31	5
16.31	1.75	16.31	12.0	7.53	16.94	10.09	1.62	0.000	313.68	8.35	1.000	0	0
16.31	1.75	0.00	12.0	7.53	7.53	0.00	0.00	0.000	313.68	8.35	1.000	0	0
12 + 336.00	313.58	0.00	12.0	0.00	0.00	0.00	0.00	0.000	313.74	0.481	1.000	9	0
16.31	1.70	16.31	12.0	6.33	8.56	9.06	1.80	0.000	313.74	4.81	1.000	0	0
16.31	1.70	0.00	12.0	0.00	0.00	0.00	0.00	0.000	313.74	4.81	1.000	0	0
12 + 381.00	313.81	0.00	12.0	0.00	0.00	0.00	0.00	0.000	313.92	0.400	1.000	0	0
16.31	1.98	16.31	12.0	7.74	10.18	10.95	1.49	0.000	313.92	3.22	1.000	0	0
16.31	1.98	0.00	12.0	0.00	0.00	0.00	0.00	0.000	313.92	3.22	1.000	0	0
12 + 385.00	313.80	0.00	12.0	0.00	0.00	0.00	0.00	0.001	313.94	0.387	1.000	11	0
16.31	1.80	16.31	12.0	5.68	8.78	10.10	1.61	0.001	313.94	0.387	1.000	0	0
16.31	1.80	0.00	12.0	5.68	5.68	0.00	0.00	0.001	313.94	0.387	1.000	0	0

STATION ABLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FRUDE IE 0/00	ALPHA ALPHAS	KZW KZD
16.31	1.92	0.00	12.0	0.00	0.00	0.00	0.00	0.00				
					Ster0001.001							
12 + 389.00	313.83	0.11	12.0	1.11	1.30	0.38	0.30	0.00				
16.31	1.92	0.00	12.0	9.01	10.16	10.91	1.49	0.000	313.95	0.448	1.049	0 0
12 + 453.00	314.04	0.00	12.0	0.00	0.00	0.00	0.00	0.000	314.12	0.369	1.000	0 0
16.31	2.14	0.00	12.0	0.00	0.00	0.00	0.00	0.000	314.12	2.34	1.000	0 0
ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0												
STATIONAERE WASSERSPIEGELLAGEN												
PROGRAMM WSPR2009 (C.) Knauf 2009												
DATUM : 17.06.2009												
PROJEKT Kl-strieg												
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m												
VARIANTE HQ 100 Plan Damm Mueundung												
DATEI Ster0001												
SEITE 38												
STATION ABLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FRUDE IE 0/00	ALPHA ALPHAS	KZW KZD
12 + 519.00	314.27	0.44	10.0	9.37	9.38	1.61	0.27	0.010	314.45	0.829	1.316	0 0
16.31	1.71	0.00	10.0	0.00	10.11	8.30	1.91	0.00	314.45	7.61	1.136	0 0
12 + 535.00	314.37	0.00	10.0	0.00	0.00	0.00	0.00	0.015	314.62	0.742	1.000	0 0
16.31	1.66	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.62	10.39	1.000	0 0
12 + 542.00	314.41	0.00	10.0	0.00	0.00	0.00	0.00	0.002	314.70	0.644	1.000	31 5
16.31	1.63	0.00	10.0	4.87	7.47	6.83	2.39	0.000	314.76	10.29	1.000	0 0
12 + 549.00	314.50	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.76	0.575	1.000	0 0
16.31	1.85	0.00	10.0	0.00	7.20	7.34	2.22	0.000	314.76	7.71	1.000	0 0
12 + 590.00	314.86	0.27	10.0	7.60	7.61	1.56	0.17	0.000	314.96	0.536	1.344	0 0
16.31	1.95	0.12	10.0	3.07	8.81	11.03	1.44	0.000	314.96	2.47	1.149	0 0
12 + 629.00	315.02	0.00	10.0	0.00	0.00	0.00	0.00	0.096	315.36	0.584	1.000	0 0
16.31	2.24	0.00	10.0	0.00	7.26	6.27	2.60	0.000	315.36	0.584	1.000	0 0
Ster0001.001												
seite 47												

STATION ABLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FRUDE IE 0/00	ALPHA ALPHAS	KZW KZD
16.31	2.24	0.00	10.0	0.00	0.00	0.00	0.00	0.00				
					Ster0001.001							
12 + 632.00	315.06	0.00	10.0	0.00	0.00	0.00	0.00	0.000	315.40	0.567	1.000	11 0
16.31	2.28	0.00	10.0	3.10	7.34	6.39	2.55	0.000	315.40	12.52	1.000	0 0
12 + 635.00	315.09	0.03	10.0	3.94	3.94	0.20	0.16	0.000	315.44	0.878	1.059	0 0
16.31	2.21	0.00	10.0	0.00	7.22	6.20	2.62	0.000	315.44	13.48	1.028	0 0
12 + 640.00	315.26	0.00	10.0	0.00	0.00	0.00	0.00	0.000	315.49	0.551	1.000	0 0
16.31	2.00	0.00	10.0	0.07	0.09	0.00	0.00	0.000	315.49	7.64	1.000	0 0
12 + 642.00	315.27	0.00	10.0	0.00	0.00	0.00	0.00	0.000	315.51	0.558	1.000	11 0
16.31	1.95	0.00	10.0	4.87	7.95	7.51	2.17	0.000	315.51	8.14	1.000	0 0
12 + 644.00	315.32	0.00	10.0	0.37	0.37	0.00	0.03	0.000	315.52	0.579	1.122	0 0
16.31	2.07	0.28	10.0	5.69	7.53	8.14	1.97	0.000	315.52	5.59	1.053	0 0
ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0												
STATIONAERE WASSERSPIEGELLAGEN												
PROGRAMM WSPR2009 (C.) Knauf 2009												
DATUM : 17.06.2009												
PROJEKT Kl-strieg												
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m												
VARIANTE HQ 100 Plan Damm Mueundung												
DATEI Ster0001												
SEITE 39												
STATION ABLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FRUDE IE 0/00	ALPHA ALPHAS	KZW KZD
12 + 646.00	315.33	0.01	10.0	2.54	2.54	0.11	0.09	0.000	315.53	0.654	1.141	0 0
16.31	2.05	0.26	10.0	5.86	7.62	8.18	1.96	0.000	315.53	5.59	1.063	0 0
12 + 669.00	315.45	0.03	10.0	3.78	3.78	0.24	0.14	0.004	315.69	0.706	1.058	0 0
16.31	2.09	0.00	10.0	4.18	7.52	7.48	2.18	0.000	315.69	7.64	1.028	0 0
12 + 673.00	315.43	0.00	10.0	0.00	0.00	0.00	0.00	0.006	315.74	0.583	1.000	11 0
16.31	2.09	0.00	10.0	7.02	7.02	6.67	2.44	0.000	315.74	0.583	1.000	0 0
ERGEBNISSE												
seite 48												

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	FROUDE	ALPHA	KZM	KZD
=====													
ERGEBNISSE													
=====													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	FROUDE	ALPHA	KZM	KZD
12 + 677.00	16.31	315.64	0.00	10.0	0.00	0.00	0.00	0.000	315.75	0.391	1.000	0	0
12 + 680.00	16.31	315.64	0.00	10.0	0.00	0.00	0.00	0.000	315.77	0.401	1.000	0	0
12 + 710.00	16.31	315.73	0.00	10.0	0.00	0.00	0.00	0.000	315.86	0.404	1.000	0	0
12 + 717.00	16.31	315.69	0.00	10.0	0.00	0.00	0.00	0.012	315.91	0.476	1.000	11	0
12 + 724.00	16.31	315.86	0.10	10.0	7.43	0.95	0.10	0.000	315.93	0.423	1.142	0	0
12 + 773.00	16.31	315.93	0.85	10.0	8.32	3.24	0.26	0.000	316.04	0.594	1.757	0	0
12 + 824.00	16.31	316.07	0.00	10.0	0.00	0.00	0.00	0.003	316.19	0.571	1.268	0	0
12 + 875.00	16.31	316.27	0.00	10.0	0.00	0.00	0.00	0.007	316.45	0.767	1.197	0	0
12 + 905.00	16.31	316.62	0.00	10.0	0.00	0.00	0.00	0.000	316.68	0.297	1.000	12	0
12 + 908.00	16.31	316.55	0.00	10.0	0.00	0.00	0.00	0.043	316.74	0.666	1.002	0	0
12 + 916.00	16.31	316.59	0.00	10.0	0.00	0.00	0.00	0.001	316.80	0.616	1.005	0	0
12 + 974.00	16.31	316.98	0.00	10.0	0.00	0.00	0.00	0.000	317.15	0.511	1.000	0	0
13 + 29.00	16.31	317.26	0.00	10.0	0.00	0.00	0.00	0.003	317.47	0.672	1.005	0	0
13 + 86.00	16.31	317.65	0.00	10.0	0.00	0.00	0.00	0.000	317.81	0.528	1.000	0	0
13 + 113.00	16.31	317.78	0.00	10.0	0.00	0.00	0.00	0.000	317.94	0.518	1.000	0	0
13 + 123.00	16.31	317.96	0.00	10.0	0.00	0.00	0.00	0.000	318.09	0.505	1.000	0	0
13 + 176.00	16.31	318.19	0.73	10.0	5.19	2.22	0.33	0.000	318.30	0.678	2.172	0	0

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Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 17.06.2009

PROJEKT K1-Strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE HQ 100 Plan Damm Mündung
DATEI Ster0001

SEITE 40

STER0001.001
Ster0001.001
m2
m/s
m
NN+m
IE o/oo
ALPHAS

seite 49

ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH
Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0

seite 50

STATIONNAERE WASSERSPIEGELLAGEN Ster0001.001
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009
PROJEKT K1-strieg Station 0 + 1.00 bis 0 + 15240.00 m
ZUSTAND Station 0 + 1.00 Plan Damm Mündung
VARIANTE HQ 100 Plan Damm Mündung
DATEI Ster0001 SEITE 41

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m3/s	K-WERT m^0.33/s	BREITTE m	UMFANG m	FLAECHE m2	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
13 + 228.00	318.43	0.00	10.0	0.00	0.00	0.00	0.00					
16.31	1.36	16.30	25.0	11.70	12.03	9.54	1.71	0.023	318.58	0.666	1.025	0 0
		0.01	10.0	2.72	2.72	0.13	0.11		6.37		1.012	
13 + 248.00	318.48	0.00	10.0	0.00	0.00	0.00	0.00					
16.31	1.41	16.31	25.0	6.82	7.56	5.70	2.86	0.000	318.90	1.000	1.000	4 0
		0.00	10.0	0.00	0.00	0.00	0.00		19.11		1.000	
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++												
13 + 251.00	318.54	0.00	10.0	0.00	0.00	0.00	0.00					
16.31	1.47	16.31	25.0	4.52	6.53	5.70	2.86	0.000	318.96	0.813	1.000	11 0
		0.00	10.0	0.00	0.00	0.00	0.00		15.65		1.000	
13 + 254.00	318.91	2.51	10.0	20.32	20.53	9.11	0.28	0.000	318.98	0.520	2.433	0 0
16.31	1.70	13.58	25.0	7.77	8.38	10.12	1.34		2.24		1.474	
		0.22	10.0	8.16	8.17	1.46	0.15					
13 + 258.00	318.91	1.29	10.0	20.32	20.53	5.78	0.22	0.000	319.00	0.590	2.918	0 0
16.31	1.54	13.15	25.0	7.77	8.22	9.29	1.42		2.72		1.594	
		1.87	10.0	17.63	17.64	6.77	0.28					
13 + 305.00	319.08	1.21	10.0	7.82	7.85	2.69	0.45	0.000	319.33	1.000	1.867	4 0
16.31	1.39	14.85	25.0	5.96	6.35	6.42	2.31		8.42		1.325	
		0.25	10.0	6.45	6.46	0.98	0.26					
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++												
13 + 327.00	319.31	0.00	10.0	0.00	0.00	0.00	0.00					
15.32	1.51	15.32	25.0	4.97	6.47	5.80	2.64	0.053	319.66	0.780	1.000	0 0
		0.00	10.0	0.00	0.00	0.00	0.00		12.89		1.000	
13 + 331.00	319.38	0.00	10.0	0.00	0.00	0.00	0.00					
15.32	1.55	15.32	25.0	2.85	7.74	5.94	2.58	0.000	319.72	0.570	1.000	12 0
		0.00	10.0	0.00	0.00	0.00	0.00		15.11		1.000	

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Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0

STATIONNAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009

PROJEKT K1-strieg Station 0 + 1.00 bis 0 + 15240.00 m
ZUSTAND Station 0 + 1.00 Plan Damm Mündung
VARIANTE HQ 100 Plan Damm Mündung
DATEI Ster0001 SEITE 42

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m3/s	K-WERT m^0.33/s	BREITTE m	UMFANG m	FLAECHE m2	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
13 + 335.00	319.62	0.00	10.0	0.00	0.00	0.00	0.00					
15.32	1.79	15.32	25.0	8.46	9.36	9.53	1.81	0.000	319.75	0.517	1.007	0 0
		0.00	10.0	1.23	1.23	0.04	0.06		4.03		1.003	
13 + 341.00	319.67	0.08	10.0	1.29	1.44	0.41	0.19	0.000	319.76	0.428	1.468	0 0
15.32	1.83	14.41	25.0	7.27	7.66	10.64	1.35		1.89		1.188	
		0.84	10.0	6.12	6.20	3.07	0.27					
===== ERGEBNISSE =====												
13 + 391.00	319.80	0.00	10.0	0.00	0.00	0.00	0.00					
15.32	1.91	15.23	25.0	9.07	11.18	10.05	1.51	0.007	319.92	0.521	1.080	0 0
		0.09	10.0	3.23	3.23	0.48	0.18		4.23		1.037	
13 + 440.00	319.97	0.08	10.0	1.50	1.57	0.34	0.23	0.001	320.12	0.694	1.615	0 0
15.32	1.88	14.54	25.0	6.18	6.94	8.26	1.76		3.93		1.247	
		0.70	10.0	10.54	10.57	2.75	0.26					
13 + 498.00	320.21	0.01	10.0	0.70	0.75	0.09	0.15	0.000	320.35	0.511	1.016	0 0
15.32	1.53	15.31	25.0	7.96	8.84	9.22	1.66		4.17		1.008	
		0.00	10.0	0.00	0.00	0.00	0.00					
13 + 501.00	320.02	0.00	10.0	0.00	0.00	0.00	0.00	0.100	320.50	0.889	1.000	11 0
15.32	1.30	15.32	25.0	4.20	6.36	5.03	3.05		20.33		1.000	
		0.00	10.0	0.00	0.00	0.00	0.00					
13 + 504.00	320.33	0.43	10.0	3.55	3.63	1.16	0.37	0.000	320.57	1.000	1.648	4 0
15.32	1.66	14.62	25.0	5.76	5.76	6.68	2.19		6.30		1.262	
		0.27	10.0	10.88	10.93	1.35	0.20					
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++												
		0.00	10.0	0.00	0.00	0.00	0.00					

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13 + 515.00	320.40	15.30	25.0	4.17	6.71	6.50	2.36	0.021	320.69	0.770	1.038	0	0
15.32	1.89	0.02	10.0	2.78	2.78	0.13 *	0.13	0.000	321.43	0.926	1.018	0	0
13 + 517.00	320.46	0.00	10.0	0.00	0.00	0.00	0.00	0.000	320.72	0.000	1.027	11	0
15.32	1.98	0.02	10.0	1.61	1.64	0.11	0.21	0.000	320.72	16.82	1.013	0	0
13 + 519.00	320.59	0.01	10.0	3.68	3.68	0.13	0.09	0.000	320.75	0.779	1.226	9	0
15.32	2.15	0.24	10.0	8.00	10.37	1.01	0.23	0.000	320.75	6.67	1.100	0	0
13 + 522.00	320.71	0.10	10.0	3.39	3.42	0.75	0.14	0.000	320.76	0.409	3.131	0	0
15.32	2.32	11.43	25.0	5.56	7.43	9.86	0.23	0.000	320.76	1.48	1.621	0	0
13 + 566.00	320.79	2.73	10.0	19.89	19.94	9.94	0.27	0.000	320.83	0.395	2.658	0	0
15.32	2.04	1.46	25.0	9.66	10.89	10.45	1.06	0.000	320.83	1.91	1.498	0	0
ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0													
STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009													
PROJEKT Kl-strieg Station 0 + 1.00 bis 0 + 15240.00 m													
VARIANTE HQ 100 Plan Damm Mündung													
DATEI Ster0001													
ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m3/s	m\0.33/s	m	m	m2	m/s	m	NN+m	IE 0/00	ALPHAS	KZW	KZD
13 + 624.00	320.87	2.16	10.0	9.67	9.95	5.52	0.39	0.009	320.99	0.647	2.423	0	0
15.32	1.57	0.50	10.0	11.71	11.72	2.46	0.20	0.000	320.99	3.35	1.471	0	0
13 + 650.00	320.96	0.64	10.0	5.27	9.35	1.83 *	0.35	0.000	321.23	1.000	1.477	4	0
15.32	1.35	0.00	10.0	0.00	7.10	6.22	0.00	0.000	321.23	10.61	1.197	0	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
13 + 654.00	320.89	0.00	10.0	0.00	0.00	0.00	0.00	0.072	321.38	0.955	1.000	11	0
15.32	1.23	0.00	10.0	4.65	6.46	4.96	3.09	0.000	321.38	21.72	1.000	0	0
Ster0001.001 seite 53													

13 + 658.00	321.28	2.32	10.0	15.73	15.76	6.29	0.37	0.000	321.43	0.694	2.299	0	0
15.32	1.59	0.09	10.0	4.83	6.12	6.97	1.85	0.000	321.43	4.63	1.438	0	0
13 + 661.00	321.29	2.27	10.0	15.68	15.71	6.15	0.37	0.000	321.45	0.706	2.287	0	0
15.32	1.58	0.08	10.0	1.40	1.48	0.33	0.25	0.000	321.45	4.76	1.436	0	0
13 + 716.00	321.54	1.14	10.0	12.65	12.66	3.62	0.31	0.002	321.73	0.820	2.000	0	0
15.32	1.70	0.26	10.0	5.39	5.87	6.90	2.02	0.000	321.73	5.25	1.368	0	0
13 + 769.00	322.00	0.26	10.0	4.75	4.76	0.86	0.30	0.000	322.26	1.000	1.340	4	0
15.32	1.48	0.09	10.0	6.17	6.96	6.60	2.27	0.000	322.26	8.86	1.147	0	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
!!! Profiltabstand zum Ow ueberprüfen !!!													
13 + 821.00	322.39	0.06	10.0	5.33	5.33	0.41	0.14	0.000	322.59	0.741	1.095	0	0
15.32	1.59	0.00	10.0	5.91	7.71	7.72	1.98	0.000	322.59	6.25	1.045	0	0
13 + 835.00	322.55	0.97	10.0	15.20	15.21	4.20	0.23	0.000	322.64	0.707	1.932	0	0
15.32	1.90	0.12	10.0	7.14	8.97	9.82	1.45	0.10	322.64	2.97	1.354	0	0
13 + 838.00	322.44	0.00	10.0	0.00	0.00	0.00	0.00	0.220	322.93	0.000	1.000	12	0
15.32	1.82	0.00	10.0	0.00	9.20	4.97	3.08	0.000	322.93	34.65	1.000	0	0
ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0													
STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 17.06.2009													
PROJEKT Kl-strieg Station 0 + 1.00 bis 0 + 15240.00 m													
VARIANTE HQ 100 Plan Damm Mündung													
DATEI Ster0001													
ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m3/s	m\0.33/s	m	m	m2	m/s	m	NN+m	IE 0/00	ALPHAS	KZW	KZD
Ster0001.001 seite 54													

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ^{0.35} /s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEH NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
13 + 841.00 15.32	322.92 2.37	2.13 13.19 0.00	10.0 25.0 10.0	28.30 6.30 0.00	28.31 8.38 0.00	9.77 10.36 0.00	0.22 1.27 0.00	0.000	322.99	0.496 1.96	2.423 1.481	9 0
13 + 844.00 15.32	322.91 2.24	1.68 13.64 0.00	10.0 25.0 10.0	28.72 6.13 0.00	28.76 8.17 0.00	7.81 9.56 0.00	0.22 1.43 0.00	0.001	323.00	0.609 2.64	2.335 1.466	0 0
13 + 897.00 15.32	323.06 1.70	1.61 13.71 0.00	10.0 25.0 10.0	29.26 9.70 0.00	29.26 10.38 0.00	8.29 11.43 0.00	0.19 1.20 0.00	0.000	323.12	0.510 2.02	2.140 1.408	0 0
13 + 943.00 15.32	323.15 1.68	0.00 14.44 0.88	10.0 25.0 10.0	3.04 13.53 11.01	3.04 14.47 11.04	0.11 14.63 4.24	0.04 0.99 0.21	0.000	323.20	0.369 1.53	1.413 1.167	0 0
13 + 997.00 15.32	323.39 1.73	0.00 9.12 6.20	10.0 18.0 10.0	0.00 5.83 24.93	0.00 6.70 24.93	0.00 5.97 11.40	0.00 1.53 0.54	0.000	323.47	0.522 8.40	1.938 1.280	0 0
14 + 47.00 15.32	323.75 2.32	0.00 13.15 2.17	10.0 18.0 10.0	0.00 4.19 22.72	0.00 6.75 22.75	0.00 7.65 6.01	0.00 1.72 0.36	0.003	323.88	0.716 7.72	2.030 1.361	0 0
14 + 78.00 15.32	324.03 2.00	0.08 15.24 0.00	10.0 18.0 10.0	10.93 5.38 0.00	10.94 8.51 0.00	0.54 7.88 0.00	0.15 1.93 0.00	0.025	324.22	0.857 12.77	1.124 1.058	0 0
14 + 79.00 15.32	324.08 2.03	0.00 15.32 0.00	10.0 18.0 10.0	0.00 15.73 0.14	0.00 34.58 0.15	0.00 8.17 0.00	0.00 1.87 0.20	0.000	324.27	0.000 74.17	1.001 1.000	11 0
14 + 80.00 15.32	324.17 2.10	0.46 14.86 0.00	10.0 18.0 10.0	15.02 5.42 0.00	15.02 8.58 0.10	1.88 8.51 0.00	0.24 1.75 0.00	0.000	324.32	0.771 9.53	1.362 1.154	9 0
14 + 92.00 15.32	324.28 2.42	0.28 15.04 0.00	10.0 18.0 10.0	13.07 6.17 0.81	13.07 9.69 0.81	1.28 8.78 0.02	0.22 1.71 0.09	0.000	324.43	0.765 10.34	1.249 1.110	0 0
14 + 98.00 15.32	324.46 2.53	0.00 15.27 0.05	10.0 18.0 10.0	0.00 13.37 2.38	0.00 30.30 2.39	0.00 8.73 0.15	0.00 1.75 0.35	0.002	324.62	0.000 49.64	1.024 1.011	11 0

ster0001.001
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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009
PROJEKT Kl.-Strieg
ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
VARIANTE HQ 100 Plan Damm Mündung
DATEI Ster0001
STER0001.001
DATUM : 17.06.2009
SEITE 45

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ERGEBNISSE

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ^{0.35} /s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEH NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
14 + 106.00 15.32	324.75 2.44	1.04 12.43 1.85	10.0 18.0 10.0	12.41 8.56 15.94	12.43 9.79 15.94	5.11 14.50 8.00	0.20 0.86 0.23	0.000	324.78	0.287 1.34	1.968 1.329	9 0
14 + 170.00 15.32	324.83 2.40	0.81 13.00 1.51	10.0 18.0 10.0	4.54 8.53 14.03	4.70 9.34 14.05	2.76 13.51 6.21	0.29 0.96 0.24	0.001	324.87	0.313 1.75	1.716 1.257	0 0
14 + 258.00 15.32	324.99 1.92	0.03 14.36 0.93	10.0 18.0 10.0	6.20 10.17 10.81	6.20 11.19 10.85	0.43 14.60 3.97	0.08 0.98 0.23	0.001	325.04	0.364 2.09	1.399 1.161	0 0
14 + 369.00 15.32	325.50 1.67	0.02 15.08 0.23	10.0 18.0 10.0	2.31 8.28 8.54	2.31 8.93 8.54	0.13 9.11 1.03	0.13 1.65 0.22	0.024	325.64	0.715 8.23	1.211 1.094	0 0
14 + 397.00 15.32	325.73 1.84	0.00 15.32 0.00	10.0 18.0 10.0	0.00 4.04 0.00	0.00 10.94 0.00	0.00 6.28 0.00	0.00 2.44 0.00	0.019	326.04	0.000 38.54	1.000 1.000	11 0
14 + 404.00 15.32	326.10 1.96	0.00 15.32 0.00	10.0 18.0 10.0	0.00 8.39 0.00	0.00 9.65 0.00	0.01 11.11 0.00	0.06 1.38 0.00	0.000	326.20	0.391 4.86	1.002 1.001	9 0
14 + 597.00 15.32	327.10 1.54	0.00 15.05 0.27	10.0 18.0 10.0	0.00 10.82 9.24	0.00 11.38 9.25	0.00 11.41 1.34	0.00 1.32 0.20	0.000	327.18	0.524 5.36	1.184 1.081	0 0
14 + 658.00 15.32	327.55 1.34	0.00 15.32 0.00	10.0 18.0 10.0	0.00 10.54 0.00	0.00 11.03 0.00	0.00 9.28 0.00	0.00 1.65 0.06	0.010	327.69	0.562 10.60	1.000 1.000	0 0

ster0001.001
seite 56

14 + 743.00	328.37	14.41	18.0	13.33	13.71	10.82	1.33	0.000	328.46	0.524	1.233	0	0
15.32	1.26	0.91	10.0	7.47	7.54	2.30	0.39		7.52	1.094			
14 + 813.00	329.00	15.32	10.0	0.00	0.00	0.00	0.00	0.000	329.32	1.000	1.000	4	0
15.32	1.13	0.00	10.0	9.43	9.77	6.09	2.52		36.67	1.000			

+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)
 !! Profiltabstand zum OW ueberpruefen !!

ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH
 Zwitckauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0

STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009

STER0001.001
 DATUM : 17.06.2009

PROJEKT K1-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 15240.00 m
 VARIANTE HQ 100 Plan Damm Mündung
 DATEI Ster0001

SEITE 46

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STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /s	BREITE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+m	FROUDE IE 0/00	ALPHA ALPHAS	KZW KZD	
14 + 869.00	329.81	0.27	10.0	6.62	6.67	0.91 *	0.29	0.000	329.99	0.790	1.190	0	0
15.32	1.35	15.05	18.0	7.64	8.30	7.88	1.91		12.05	1.084			
14 + 934.00	330.58	5.39	10.0	14.90	14.97	8.40	0.64	0.000	330.68	0.553	1.838	0	0
14.85	1.43	9.37	18.0	4.51	5.26	5.42	1.73		8.89	1.260			
15 + 8.00	331.21	2.27	10.0	20.85	20.85	5.85	0.39	0.000	331.31	0.687	1.870	0	0
14.85	1.28	12.52	18.0	8.39	9.02	8.20	1.53		8.18	1.307			
15 + 39.00	331.44	1.05	10.0	6.70	6.77	2.55	0.41	0.000	331.54	0.579	1.645	0	0
14.85	1.39	13.00	18.0	8.00	8.08	8.70	1.49		6.24	1.238			
15 + 88.00	331.74	0.00	10.0	0.29	0.29	0.01	0.06	0.001	331.85	0.603	1.355	0	0
14.85	1.51	14.22	18.0	8.35	9.27	9.63	1.48		6.40	1.148			
15 + 114.50	331.92	0.06	10.0	2.99	3.05	0.42	0.14	0.000	331.97	0.402	1.962	0	0
		12.08	18.0	8.17	8.96	11.18	1.08						

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14.85	1.58	2.71	10.0	23.71	23.72	9.58	0.28		2.68	1.328			
						Ster0001.001							
15 + 147.50	332.01	4.02	10.0	14.28	14.35	9.31	0.43	0.000	332.06	0.407	1.968	0	0
14.85	1.55	10.20	18.0	7.28	7.62	8.89	1.15		3.31	1.310			
15 + 213.50	332.26	0.16	10.0	3.46	3.48	0.68	0.24	0.006	332.35	0.604	1.541	0	0
14.85	1.54	14.00	18.0	9.97	10.51	10.66	1.31		5.22	1.217			
15 + 240.00	332.40	0.05	10.0	2.77	2.78	0.33	0.14	0.000	332.46	0.501	1.454	0	0
14.85	1.59	14.20	18.0	11.08	12.19	12.80	1.11		3.56	1.187			
		0.60	10.0	20.57	20.57	3.37	0.18						

□