
 WSPRLWA2009
 BERECHNUNG STATIONAERER WASSERSPIEGELLAGEN

DATUM : 3.06.2009
 STARTZEIT : 14h 51' 40"
 EINGABEDATEI : Stws0001.001
 ERGEBNISDATEI : Ster0001.001
 BEWUCHSSDATEI : Stbe0001.001
 OPLOTT-DATEI : Stpp0001.001
 PLOTT-DATEI : Stlp0001.001

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

STATIONAERE WASSERSPIEGELLAGEN
 PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 50 1st
 DATEI Ster0001 SEITE 1

STATION	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ^{0.33} /s	BREITE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
0 +	10.00	241.43	27.86	22.0	11.87	24.74	0.00	0.00	241.47	0.154	1.000	12	0
	27.86	2.49	0.00	0.00	0.00	0.00	0.00	0.00	241.46	0.158	1.000	1	0
0 +	14.00	241.45	27.86	22.0	12.67	24.38	0.00	0.00	241.47	0.129	1.000	0	0
	27.86	2.57	0.00	0.00	4.19	4.21	0.00	0.00	***	0.32	1.000	0	0

Seite 1

STATION	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ^{0.33} /s	BREITE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
0 +	81.00	241.58	26.86	20.3	9.14	10.75	1.95	0.071	241.77	0.618	1.145	0	0
	27.86	1.79	1.00	17.0	6.76	6.78	0.56	0.000	242.40	5.94	1.034	0	0
0 +	181.00	242.23	26.58	22.0	12.67	13.38	1.81	0.000	243.98	1.000	1.000	4	0
	27.08	1.38	0.50	17.0	4.19	4.21	0.50	0.000	23.54	23.54	1.000	0	0

 Energie|n|engerfaelle negativ
 !!! Datensatz ueberpruefen !!!
 ++++++++
 Engstelle mit Fluesswechsel, Energieminimum > EH(UW)
 !!! Profiltabstand zum ow ueberpruefen !!!
 ++++++++

0 +	364.50	244.17	27.08	22.0	9.59	11.62	1.88	0.000	244.35	0.491	1.000	0	0
	27.08	2.37	0.00	17.0	0.00	0.00	0.00	0.000	244.77	5.52	1.000	0	0
0 +	441.00	244.61	27.08	22.0	12.10	13.08	1.81	0.000	245.09	0.470	1.000	0	0
	27.08	1.64	0.00	17.0	0.00	0.00	0.00	0.000	4.78	4.78	1.000	0	0
0 +	503.00	244.99	27.08	22.0	20.38	21.06	1.42	0.000	245.09	0.470	1.000	0	0
	27.08	1.50	0.00	17.0	0.01	0.03	0.00	0.000	4.78	4.78	1.000	0	0

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PROJEKT K1-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 50 1st

Seite 2

DATEI Ster0001

Ster0001.001

SEITE 2

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	=====					UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEH NN+m	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
			K-WERT m ^{0.33} /s	BREITE m	BREITE m	BREITE m	BREITE m								
0 + 583.00	245.46	0.19	17.0	8.43	8.44	0.63	12.48	0.30	0.021	245.70	0.851	1.080	0	0	
27.08	1.32	26.89	22.0	11.72	12.75	0.00	0.00	2.16	0.00	0.00	9.88	1.037	0	0	
0 + 689.00	246.30	6.27	17.0	32.06	32.08	13.16	0.48	0.000	0.000	246.36	0.438	1.511	0	0	
27.08	1.56	20.70	22.0	14.11	14.72	16.90	1.23	0.32	0.000	246.36	2.58	1.176	0	0	
0 + 796.00	246.61	0.00	17.0	0.50	0.50	0.00	0.05	0.024	0.024	246.74	0.449	1.001	0	0	
27.08	1.62	27.08	22.0	13.26	14.40	17.22	1.57	0.00	0.00	246.74	4.03	1.000	0	0	
0 + 891.00	246.99	0.00	17.0	0.00	0.00	0.00	0.00	0.000	0.000	247.14	0.487	1.075	0	0	
27.08	1.92	26.01	22.0	10.48	11.34	14.93	1.74	0.73	0.000	247.14	4.34	1.030	0	0	
0 + 990.00	247.46	0.00	17.0	0.00	0.00	0.00	0.00	0.002	0.002	247.65	0.571	1.067	0	0	
27.08	1.77	26.20	22.0	10.27	11.08	13.39	1.96	0.80	0.000	247.65	6.15	1.027	0	0	
0 + 998.00	247.50	0.00	17.0	0.00	0.00	0.00	0.00	0.020	0.020	247.82	0.985	1.000	31	5	
27.08	1.61	27.08	22.0	16.58	19.57	10.85	2.49	0.00	0.000	247.82	28.22	1.000	0	0	
1 + 6.00	247.77	0.00	17.0	0.00	0.00	0.00	0.00	0.000	0.000	247.95	0.549	1.000	0	0	
27.08	1.86	27.08	22.0	11.96	12.76	14.38	1.88	0.00	0.000	247.95	6.25	1.000	0	0	
1 + 25.00	247.90	0.00	17.0	1.82	1.82	0.02	0.06	0.000	0.000	248.06	0.546	1.003	0	0	
27.08	1.93	27.08	22.0	12.19	13.01	15.20	1.78	0.00	0.000	248.06	5.33	1.001	0	0	
1 + 96.00	248.25	0.00	17.0	0.00	0.00	0.00	0.00	0.000	0.000	248.35	0.379	1.000	0	0	
27.08	1.67	27.08	22.0	13.66	14.86	19.23	1.41	0.00	0.000	248.35	2.91	1.000	0	0	
1 + 166.00	248.55	0.00	17.0	0.00	0.00	0.00	0.00	0.019	0.019	248.75	0.614	1.000	0	0	
27.08	1.36	27.08	22.0	12.19	12.98	13.42	2.02	0.00	0.000	248.75	8.05	1.000	0	0	

Seite 3

1 + 222.20	249.01	0.00	17.0	0.02	0.02	0.00	0.00	0.000	0.000	249.23	0.685	1.009	0	0
27.08	1.34	27.07	22.0	12.86	13.39	13.20	2.05	0.19	0.000	249.23	8.85	1.004	0	0
Ster0001.001														
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STATIONAERE WASSERSPIEGELLAGEN														
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009														
PROJEKT K1-strieg														
ZUSTAND Station 0														
VARIANTE HQ 50 1st														
DATEI Ster0001														
SEITE 3														

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ERGBNISSE

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	=====					UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEH NN+m	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
			K-WERT m ^{0.33} /s	BREITE m	BREITE m	BREITE m	BREITE m								
1 + 226.00	249.13	0.14	17.0	13.10	13.10	0.81	0.17	0.000	0.000	249.25	0.646	1.239	0	0	
27.08	1.53	25.29	22.0	13.36	13.66	15.93	1.59	0.58	0.000	249.25	4.24	1.097	0	0	
1 + 273.00	249.34	0.10	17.0	3.37	3.39	0.31	0.31	0.025	0.025	249.57	0.726	1.041	0	0	
27.08	1.48	26.98	22.0	10.97	11.58	12.65	2.13	0.20	0.000	249.57	8.35	1.019	0	0	
1 + 349.00	249.90	0.37	17.0	2.05	2.18	0.67	0.56	0.000	0.000	250.09	0.548	1.054	0	0	
27.08	1.81	26.71	22.0	9.96	10.70	14.00	1.91	0.00	0.000	250.09	5.26	1.023	0	0	
1 + 421.00	250.29	0.13	17.0	7.06	7.06	0.53	0.25	0.001	0.001	250.53	0.794	1.142	0	0	
27.08	1.98	26.50	22.0	8.86	9.71	12.32	2.15	0.60	0.000	250.53	6.97	1.062	0	0	
1 + 541.00	251.37	0.00	17.0	0.63	0.63	0.01	0.10	0.005	0.005	251.65	0.751	1.002	0	0	
27.08	1.85	27.08	22.0	11.24	12.10	11.66	2.32	0.18	0.000	251.65	11.71	1.001	0	0	
1 + 545.00	251.31	0.00	17.0	0.00	0.00	0.00	0.00	0.014	0.014	251.72	0.670	1.000	12	0	
27.08	1.75	27.08	22.0	5.20	9.52	9.54	2.84	0.00	0.000	251.72	16.62	1.000	0	0	
1 + 551.00	251.59	0.00	17.0	0.00	0.00	0.00	0.00	0.000	0.000	251.78	0.575	1.035	0	0	
26.97	0.00	26.97	22.0	9.90	10.95	13.87	1.94	0.00	0.000	251.78	0.575	1.035	0	0	

Seite 4

27.08	1.86	0.11	17.0	2.32	2.34	0.33	0.35	5.70	1.016				
Ster0001.001													
1 + 600.50	251.85	0.57	17.0	6.93	7.39	1.52 *	0.38	0.000	252.03				
27.08	1.83	0.53	17.0	8.23	8.36	13.60	1.91	0.000	0.658				
1 + 695.00	252.26	12.49	17.0	21.35	21.48	19.19	0.65	0.000	252.30				
27.08	1.71	0.31	17.0	10.17	5.12	13.43	1.26	0.000	0.296				
1 + 789.00	252.47	0.93	19.5	4.39	4.45	1.55	0.60	0.017	0.483				
27.08	1.36	0.32	19.5	15.63	15.74	17.51	1.47	0.059	3.90				
1 + 865.00	252.87	0.53	19.5	3.10	3.14	0.77	0.69	0.008	0.663				
27.08	1.16	0.20	19.5	15.63	15.74	14.25	1.85	0.008	8.06				
1.028													
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STATIONAERE WASSERSPIEGELLAGEN PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009													
PROJEKT K1-strieg ZUSTAND Station 0 VARIANTE HQ 50 1st DATEI Ster0001													
ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	PROUDE	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		
1 + 940.00	254.50	7.78	17.0	12.14	13.00	5.45	1.43	0.000	254.73	1.000	1.541	4	0
27.08	2.17	6.07	17.0	21.33	21.42	5.74 *	1.06	0.000	22.42	1.165			
++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++													
1 + 944.00	254.69	0.02	17.0	0.84	0.89	0.12	0.16	0.000	254.73	0.286	1.512	0	0
27.08	2.22	7.82	17.0	12.32	15.32	20.88	0.92	0.000	1.16	1.171			
2 + 14.00	254.79	0.00	17.0	0.00	0.00	0.00	0.00	0.040	254.91	0.366	1.000	0	0
Ster0001.001													
27.08	2.23	0.00	17.0	0.00	0.00	0.00	0.00	3.04	1.000				
2 + 23.00	254.78	0.00	17.0	0.00	0.00	0.00	0.00	0.005	254.95	0.466	1.000	31	5
27.08	1.93	27.08	17.0	9.29	11.33	14.74	1.84	0.000	4.91	1.000			
2 + 26.00	254.80	0.13	17.0	1.57	1.63	0.34	0.39	0.000	254.96	0.496	1.044	0	0
27.08	1.89	0.04	17.0	8.96	0.77	14.81	1.82	0.33	4.23	1.020			
2 + 28.00	254.81	0.00	17.0	0.00	0.00	0.00	0.00	0.000	254.97	0.437	1.000	31	5
27.08	1.95	27.08	17.0	9.82	11.60	15.66	1.73	0.000	4.14	1.000			
2 + 30.00	254.81	0.14	17.0	16.66	16.66	0.83	0.17	0.000	254.98	0.889	1.152	0	0
27.08	1.85	0.06	17.0	10.52	9.52	0.42	0.15	0.000	5.16	1.070			
2 + 33.00	254.82	0.17	17.0	16.66	16.66	0.95	0.18	0.000	254.99	0.882	1.173	0	0
27.08	1.85	0.08	17.0	10.16	10.16	0.49	0.16	0.000	5.05	1.079			
2 + 81.10	255.07	7.70	17.0	7.54	7.93	7.09 *	1.08	0.000	255.22	0.512	1.217	0	0
27.08	1.88	19.31	17.0	6.49	7.00	10.04	1.92	0.000	4.73	1.075			
2 + 131.00	255.31	4.60	17.8	11.05	11.26	7.22	0.64	0.000	255.40	0.415	1.296	0	0
27.08	1.97	0.04	17.0	8.94	9.49	15.39	1.46	0.000	2.31	1.108			

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PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
 ZUSTAND Station 0
 VARIANTE HQ 50 1st
 DATEI Ster0001

SEITE 5

STATION WSPLAGE/H ABFLUSS K-WERT BREITE UMFANG FLAECHE GESCHW HZV E-HOEHE PROUDE 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

STATION	WSPLAGE/H NN+M/m	ABFLUSS m³/s	K-WERT m³0.33/s	BREITTE m	UMFANG m	FLÄCHE m²	GESCHW m/s	HZV m	E-HOEHIE NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
2 + 181.10	255.42	0.47	17.0	7.57	7.61	1.34	0.35	0.003	255.57	0.636	1.413	0	0
	27.08	23.39	22.0	8.35	9.17	12.82	1.82	0.003	255.57	4.40	1.155	0	0
		9.22	17.0	9.50	9.59	4.63	0.69						
2 + 250.00	255.73	2.57	17.0	16.02	16.09	5.53	0.46	0.000	255.84	0.635	1.642	0	0
	27.08	23.67	22.0	9.66	10.62	15.21	1.28	0.000	255.84	3.10	1.238	0	0
		0.85	17.0	18.21	18.21	2.99	0.26						
2 + 309.00	255.93	0.00	17.0	0.00	0.00	0.00	0.00	0.000	256.04	0.435	1.031	0	0
	27.08	27.01	18.8	12.61	13.41	18.67	1.45	0.000	256.04	5.83	1.015	0	0
		0.07	17.0	4.28	4.45	0.37	0.20						
2 + 375.00	256.14	0.58	17.0	6.04	6.33	1.38	0.42	0.006	256.33	0.640	1.209	0	0
	27.08	25.87	22.0	8.68	8.68	13.03	0.98	0.000	256.33	4.73	1.087	0	0
		0.63	17.0	1.68	2.00	0.91	0.69						
2 + 445.00	256.54	4.78	17.0	25.24	25.26	8.45	0.57	0.000	256.66	0.662	1.692	0	0
	27.08	21.22	22.0	10.51	10.26	12.81	1.66	0.000	256.66	4.77	1.237	0	0
		1.08	17.0	10.19	11.25	2.41	0.45						
2 + 499.00	256.98	2.45	17.0	16.63	16.89	4.43	0.55	0.000	257.23	1.000	1.824	4	0
	27.08	23.70	22.0	6.19	6.32	9.99	2.37	0.000	257.23	6.31	1.299	0	0
		0.93	17.0	9.68	9.94	2.00	0.46						
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++													
!!! Profiltabstand zum Ow ueberpruefen !!!													
2 + 557.00	257.36	0.79	17.0	8.90	8.93	1.77	0.44	0.000	257.57	0.740	1.238	0	0
	27.08	26.04	22.0	8.85	9.46	12.68	2.05	0.000	257.57	5.91	1.100	0	0
		0.25	17.0	1.97	2.04	0.50	0.51						
2 + 617.00	257.76	0.00	17.0	0.00	0.00	0.00	0.00	0.014	258.04	0.604	1.000	0	0
	27.08	27.08	22.0	7.52	9.98	11.55	2.35	0.000	258.04	9.35	1.000	0	0
		0.00	17.0	0.00	0.00	0.00	0.00						
2 + 654.00	258.06	0.14	17.0	0.52	0.99	0.22	0.65	0.004	258.42	0.701	1.028	0	0
	27.08	26.94	22.0	6.39	7.98	10.05	2.68	0.000	258.42	10.93	1.012	0	0
		0.00	17.0	0.00	0.00	0.00	0.00						
2 + 681.00	258.36	0.00	17.0	0.00	0.00	0.00	0.00	0.003	258.79	0.667	1.000	12	0
	27.08	27.08	22.0	4.95	8.93	9.41	2.88	0.000	258.79	15.99	1.000	0	0
		0.00	17.0	0.00	0.00	0.00	0.00						

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 STATIOMAERE WASSERSPIEGELLAGEN

Ster0001.001

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 3.06.2009

PROJEKT Kl-strieg
 ZUSTAND Station 0
 VARIANTE HQ 50 1st
 DATEI Ster0001

SEITE 6

ERGEBNISSE

STATION	WSPLAGE/H NN+M/m	ABFLUSS m³/s	K-WERT m³0.33/s	BREITTE m	UMFANG m	FLÄCHE m²	GESCHW m/s	HZV m	E-HOEHIE NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
2 + 689.00	258.63	0.00	10.0	0.00	0.00	0.00	0.00	0.000	258.88	0.580	1.000	0	0
	27.08	27.08	22.0	8.01	10.42	12.12	2.23	0.000	258.88	8.43	1.000	0	0
		0.00	10.0	0.00	0.00	0.00	0.00						
2 + 774.70	259.28	0.03	10.0	0.72	0.84	0.13	0.20	0.000	259.45	0.503	1.016	0	0
	27.08	27.05	22.0	9.99	11.06	14.68	1.84	0.000	259.45	4.81	1.007	0	0
		0.00	10.0	0.12	0.15	0.01	0.07						
2 + 832.00	259.56	0.01	10.0	0.63	0.67	0.07	0.16	0.000	259.73	0.544	1.031	0	0
	27.08	27.02	22.0	10.80	11.44	14.50	1.86	0.000	259.73	5.23	1.014	0	0
		0.05	10.0	0.93	1.02	0.20	0.24						
2 + 881.00	259.82	0.08	10.0	2.57	2.70	0.42	0.19	0.000	259.96	0.617	1.322	0	0
	27.08	26.36	22.0	11.54	12.51	15.86	1.66	0.000	259.96	4.16	1.139	0	0
		0.64	10.0	12.19	12.20	2.70	0.24						
2 + 974.00	260.55	0.19	10.0	1.19	1.30	0.35	0.54	0.000	260.99	1.000	1.340	4	0
	27.08	25.19	22.0	7.29	7.58	8.33	3.02	0.000	260.99	16.68	1.136	0	0
		1.70	10.0	3.81	3.93	2.04	0.83						
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++													
!!! Profiltabstand zum Ow ueberpruefen !!!													
3 + 18.00	261.11	0.93	10.0	3.99	4.08	1.72	0.54	0.000	261.39	0.790	1.317	0	0
	27.08	25.83	22.0	8.43	8.85	10.79	2.39	0.000	261.39	9.08	1.131	0	0
		0.32	10.0	2.42	2.57	0.76	0.42						
3 + 96.00	261.81	4.00	10.0	8.95	10.05	8.48	0.47	0.000	261.86	0.336	1.896	0	0
	27.08	16.16	22.0	10.45	11.18	12.74	1.27	0.000	261.86	2.80	1.269	0	0
		6.91	10.0	19.07	19.16	15.24	0.45						
3 + 134.00	261.88	0.31	10.0	8.33	8.53	1.60	0.20	0.003	261.99	0.635	2.118	0	0
	27.08	23.91	22.0	12.50	12.50	15.62	1.53	0.003	261.99	3.60	1.397	0	0
		2.86	10.0	31.16	31.35	10.13	0.28						

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STATIONNAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI ster0001

SEITE 7

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ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	PROUDE	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
3 + 209.50	262.17	0.79	10.0	2.45	2.74	1.53	0.52	0.033	262.37	0.616	1.231	0	0
27.08	1.64	26.05	22.0	9.35	9.54	12.81	2.03	0.033	262.37	5.77	1.097	0	0
		0.24	10.0	2.26	2.35	0.71	0.34						
3 + 297.00	262.64	3.59	10.0	30.72	31.00	14.74	0.24	0.000	262.70	0.407	2.287	0	0
27.08	2.11	22.66	22.0	11.88	12.42	19.24	1.18						
		0.82	10.0	9.90	9.94	3.86	0.21						
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STATIONNAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009													
PROJEKT Kl-strieg													
ZUSTAND Station 0													
VARIANTE HQ 50 1st													
DATEI ster0001													
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ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	PROUDE	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
3 + 716.00	264.97	4.08	10.0	34.91	35.00	16.04	0.25	0.000	265.04	0.436	2.284	0	0
27.08	2.69	22.88	22.0	8.56	11.00	17.71	1.29						
		0.12	10.0	1.51	1.72	0.59	0.21						
3 + 780.00	265.09	0.57	10.0	4.32	4.57	3.06	0.19	0.000	265.12	0.211	1.250	0	0
27.08	2.32	26.07	22.0	20.20	20.83	34.52	0.76						
		0.43	10.0	7.92	8.01	3.22	0.13						

Seite 10

Seite 9

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STATIONNAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI ster0001

SEITE 8

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ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	PROUDE	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
3 + 565.00	263.75	27.08	22.0	8.68	9.67	10.53	2.57	0.036	264.09	0.825	1.008	0	0
27.08	2.03	0.00	10.0	0.00	0.00	0.00	0.00						
ster0001.001													
3 + 661.00	264.68	4.50	10.0	20.07	20.28	16.39	0.27	0.000	264.72	0.312	1.998	0	0
27.08	2.51	22.34	22.0	10.51	11.39	21.20	1.05						
		0.23	10.0	10.26	10.30	2.12	0.11						
3 + 664.00	264.56	0.00	10.0	0.00	0.00	0.00	0.00	0.098	264.87	0.000	1.412	11	0
27.08	2.37	23.85	22.0	6.41	15.33	9.16	2.60						
		3.23	10.0	11.22	11.31	3.92	0.82						
3 + 667.00	264.78	0.01	10.0	0.22	0.52	0.05	0.13	0.000	264.92	0.438	1.050	9	0
27.08	2.67	27.00	22.0	8.50	11.21	16.22	1.66						
		0.07	10.0	2.64	2.66	0.42	0.17						
3 + 672.00	264.82	0.01	10.0	0.28	0.68	0.09	0.13	0.000	264.94	0.403	1.087	0	0
27.08	2.81	26.91	22.0	8.50	11.21	17.45	1.54						
		0.16	10.0	3.60	3.63	0.83	0.20						
3 + 694.00	264.88	0.00	10.0	0.39	0.45	0.02	0.06	0.000	265.00	0.339	1.002	0	0
27.08	2.73	27.08	22.0	8.08	11.07	17.66	1.53						
		0.00	10.0	0.00	0.00	0.00	0.00						
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STATIONNAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009													
PROJEKT Kl-strieg													
ZUSTAND Station 0													
VARIANTE HQ 50 1st													
DATEI ster0001													
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ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	PROUDE	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

3 + 869.00	265.23	0.03	10.0	0.76	0.85	0.15	0.20	0.052	265.38	0.508	1.057	0	0
27.08	1.79	26.96	22.0	11.31	11.93	15.66	1.72	0.23	4.26	1.026	1.026	0	0
3 + 955.00	265.70	0.00	10.0	0.00	0.00	0.00	0.00	0.005	265.90	0.603	1.000	0	0
26.39	1.60	26.39	10.0	12.28	12.92	13.38	1.97	0.00	7.67	1.000	1.000	0	0
3 + 984.00	265.93	0.00	17.0	0.00	0.00	0.00	0.00	0.001	266.15	0.676	1.000	0	0
23.42	1.42	23.42	17.0	11.51	12.06	11.21	2.09	0.00	9.95	1.000	1.000	0	0
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
23.42	1.41	23.42	17.0	7.22	8.65	7.39	3.17	0.00	25.56	1.000	1.000	4	5
++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW)	!!! Profilabstand zum Uw ueberpruefen !!!	++++++										
3 + 986.00	266.29	0.00	17.0	0.00	0.00	0.00	0.00	0.000	266.44	0.478	1.000	0	0
23.42	1.76	23.42	17.0	10.58	12.15	13.73	1.71	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	0.000	267.34	1.000	1.014	4	0
23.42	1.30	23.37	17.0	8.06	8.62	7.78	3.00	0.00	21.38	1.006	1.006	4	0
++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW)	!!! Profilabstand zum Uw ueberpruefen !!!	++++++										
4 + 167.00	268.11	0.00	17.0	0.00	0.00	0.00	0.00	0.000	268.35	0.636	1.000	0	0
23.42	1.52	23.42	17.0	9.31	10.71	10.88	2.15	0.00	9.38	1.000	1.000	0	0
4 + 236.00	268.69	0.00	17.0	0.19	0.20	0.01	0.11	0.000	268.82	0.477	1.017	0	0
23.42	1.73	23.38	17.0	10.96	11.83	14.49	1.61	0.24	4.10	1.008	1.008	0	0
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STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009													
PROJEKT K1-strieg Station 0 + 1.00 bis 0 + 23380.00 m													
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m													
Seite 11													

VARIANTE HQ 50 1st

DATEI ster0001

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SEITE 9

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ERGEBNISSE
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STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	BREITE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEH NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
4 + 311.00	269.03	0.00	17.0	0.00	0.00	0.00	0.00	0.004	269.21	0.524	1.000	0	0
23.42	1.69	23.42	17.0	9.63	11.22	12.52	1.87	0.00	6.24	1.000	1.000	0	0
4 + 316.00	268.85	0.00	17.0	0.00	0.00	0.00	0.00	0.171	269.56	1.000	1.000	4	0
23.42	1.48	23.42	17.0	4.41	6.98	6.27	3.74	0.00	33.22	1.000	1.000	4	0
++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW)	++++++											
4 + 321.00	269.45	0.00	17.0	0.00	0.00	0.00	0.00	0.000	269.57	0.389	1.000	0	0
23.42	2.01	23.42	17.0	10.16	11.62	15.54	1.51	0.00	3.18	1.000	1.000	0	0
4 + 376.00	269.66	0.00	17.0	0.00	0.00	0.00	0.00	0.020	269.89	0.599	1.000	0	0
23.42	1.95	23.42	17.0	8.44	9.66	10.95	2.14	0.00	7.98	1.000	1.000	0	0
4 + 386.00	269.59	2.98	17.0	2.74	3.22	2.32	1.29	0.002	269.99	0.788	1.394	31	5
23.42	1.83	18.79	17.0	3.46	2.42	6.17	3.04	0.00	8.87	1.140	1.140	31	5
4 + 396.00	269.88	0.00	17.0	0.00	0.00	0.00	0.00	0.000	270.06	0.574	1.000	0	0
23.42	1.97	23.42	17.0	10.76	11.96	12.23	1.92	0.00	7.36	1.000	1.000	0	0
4 + 401.00	270.01	0.00	17.0	0.40	0.41	0.02	0.09	0.000	270.08	0.337	1.066	0	0
23.42	2.03	23.15	17.0	11.99	13.32	19.42	1.19	0.00	1.78	1.029	1.029	0	0
4 + 468.00	270.19	0.23	10.0	5.29	5.30	0.91	0.26	0.028	270.40	0.685	1.130	0	0
23.42	1.95	23.19	10.0	8.93	10.02	11.51	2.01	0.00	6.98	1.059	1.059	0	0
4 + 556.00	270.73	0.46	10.0	15.41	15.42	2.73	0.17	0.000	270.83	0.537	1.291	0	0
23.42	2.14	22.96	10.0	10.88	11.88	16.02	1.43	0.00	2.85	1.128	1.128	0	0
		0.75	10.0	19.42	19.42	3.47	0.22						

4 + 619.00	270.92	20.44	22.0	7.51	8.35	11.18	1.83	0.000	271.07	0.757	2.146	0	0
23.42	2.08	2.23	10.0	11.34	11.42	5.37	0.41		4.69	1.404			
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STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009													
PROJEKT K1-strieg													
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m													
VARIANTE HQ 50 1st													
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 ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS		
4 + 711.00	271.42	0.23	10.0	13.91	13.92	1.33 *	0.17	0.019	271.61	0.835	1.204	0	0
23.42	1.83	23.19	10.0	9.52	10.35	11.82	1.96		6.66	1.093			
		0.00	10.0	0.19	0.22	0.01	0.11						
4 + 814.00	272.02	0.00	10.0	1.45	1.45	0.01	0.02	0.000	272.11	0.423	1.042	0	0
23.42	1.61	23.30	10.0	14.14	14.77	17.21	1.35		3.09	1.019			
		0.12	10.0	1.43	1.58	0.48	0.25						
4 + 914.00	272.36	0.01	10.0	0.64	0.69	0.08	0.17	0.010	272.53	0.558	1.085	0	0
23.42	1.56	23.23	10.0	9.34	9.77	12.54	1.85		5.08	1.038			
		0.18	10.0	1.91	2.24	0.60	0.30						
5 + 15.00	272.92	0.02	10.0	2.09	2.09	0.14	0.13	0.000	273.10	0.594	1.021	0	0
23.42	1.74	23.40	10.0	10.92	11.67	12.74	1.84		6.20	1.010			
		0.00	10.0	0.22	0.24	0.01	0.10						
5 + 95.00	273.40	0.02	10.0	1.15	1.20	0.14	0.18	0.000	273.57	0.567	1.035	0	0
23.42	1.61	23.37	10.0	10.04	10.60	12.63	1.85		5.60	1.017			
		0.03	10.0	0.71	0.79	0.13	0.22						
5 + 182.00	273.93	0.00	10.0	0.00	0.00	0.00	0.00	0.005	274.16	0.616	1.006	0	0
23.42	1.49	23.41	10.0	8.92	9.82	11.04	2.12		7.96	1.003			
		0.01	10.0	0.23	0.41	0.04	0.19						
5 + 261.00	274.52	0.19	10.0	5.63	5.71	0.93 *	0.20	0.000	274.66	0.567	1.125	0	0
23.42	1.47	23.21	10.0	10.57	11.45	13.82	1.68		4.52	1.057			
		0.02	10.0	0.57	0.68	0.11	0.19						
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5 + 267.00	275.14	1.65	10.0	7.62	7.65	2.55	0.65	0.000	275.43	1.000	1.376	4	0
23.42	1.00	21.70	10.0	11.08	11.65	8.81	2.46		18.18	1.149			
		0.07	10.0	1.36	1.39	0.20	0.37						
+++++++ Engstelle mit [Fluesswechsel], Energieminimum > EH(UW) ++++++++													
5 + 274.00	275.29	0.13	10.0	17.00	17.02	1.11	0.12	0.000	275.46	0.844	1.258	0	0
23.42	1.77	23.11	10.0	8.68	9.56	12.34	1.87		5.16	1.116			
		0.18	10.0	2.84	2.88	0.67	0.27						
5 + 358.00	275.88	0.00	10.0	0.00	0.00	0.00	0.00	0.022	276.16	0.708	1.000	0	0
23.42	1.73	23.42	10.0	9.13	9.95	10.11	2.32		10.86	1.000			
		0.00	10.0	0.13	0.13	0.00	0.05						

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 11

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 ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS		
5 + 428.00	276.54	0.14	10.0	3.28	3.30	0.61	0.22	0.000	276.71	0.601	1.177	0	0
23.42	1.80	23.07	10.0	8.68	9.07	12.61	1.83		4.79	1.079			
		0.21	10.0	0.03	0.07	0.76	0.27						
5 + 434.00	276.63	0.00	10.0	0.00	0.00	0.00	0.00	0.000	276.74	0.450	1.000	0	0
23.42	1.83	23.42	10.0	14.33	15.64	15.81	1.48		8.46	1.000			
		0.00	10.0	0.00	0.00	0.00	0.00						
5 + 448.00	276.76	0.22	10.0	7.67	7.68	1.28	0.17	0.000	276.82	0.459	1.534	0	0
23.42	1.68	20.78	10.0	12.66	13.54	17.25	1.20		3.24	1.202			
		2.42	13.6	20.11	22.64	6.92	0.35						
5 + 501.00	276.95	0.06	10.0	1.21	1.28	0.25	0.25	0.014	277.06	0.444	1.074	0	0
23.42	1.55	23.36	10.0	13.07	13.61	15.88	1.47		5.44	1.011			
		0.00	10.0	0.15	0.16	0.00	0.05						
Seite 14													

Ster0001.001													
STATION	ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m³/s	K-WERT m³/0.33/s	BREITTE m	UMFANG m	FLAECHE m²	GESCHW m/s	HZV m	E-HOEH NN+M	FRUDE IE 0/00	ALPHA	KZW KZD
5 + 592.00	277.59	23.42	0.01	18.0	0.34	0.47	0.06	0.24	0.010	277.77	0.574	1.007	0 0
	23.42	1.61	23.41	18.0	10.71	11.39	12.33	1.90	0.00	277.77	10.00	1.003	0 0
			0.00	10.0	0.04	0.04	0.00	0.00					
5 + 662.00	278.21	23.42	0.45	10.0	7.56	7.57	1.62	0.28	0.000	278.34	0.581	1.180	0 0
	23.42	1.78	22.96	18.0	10.93	11.59	14.25	1.61	0.000	278.34	6.08	1.079	0 0
			0.01	10.0	2.26	2.26	0.07	0.08					
5 + 778.00	279.19	23.42	0.05	10.0	0.69	0.79	0.14	0.35	0.028	279.45	0.663	1.024	0 0
	23.42	1.60	23.37	18.0	8.25	8.90	10.43	2.24	0.000	279.45	12.55	1.011	0 0
			0.00	10.0	0.15	0.34	0.02	0.18					
5 + 876.00	280.29	23.42	1.29	10.0	19.61	19.61	4.08	0.32	0.000	280.47	0.805	1.590	0 0
	23.42	1.71	22.02	18.0	8.32	1.17	11.46	1.92	0.000	280.47	8.17	1.234	0 0
			0.11	10.0	1.00	1.17	0.30	0.36					
5 + 943.00	280.83	23.42	3.17	10.0	19.97	20.03	7.37	0.43	0.000	280.98	0.680	1.855	0 0
	23.42	1.88	20.15	18.0	7.72	8.30	11.03	1.83	0.000	280.98	7.04	1.305	0 0
			0.10	10.0	1.66	1.73	0.35	0.29					
6 + 9.00	281.27	23.42	1.02	10.0	15.46	15.47	3.54	0.29	0.000	281.41	0.656	1.444	0 0
	23.42	1.95	22.34	18.0	8.99	9.70	13.16	1.70	0.000	281.41	5.92	1.182	0 0
			0.06	10.0	1.57	1.65	0.26	0.22					
6 + 71.00	281.62	23.23	0.23	10.0	6.82	6.83	1.19	0.20	0.000	281.72	0.484	1.234	0 0
	23.23	1.95	22.59	18.0	9.97	10.85	15.56	1.45	0.000	281.72	4.02	1.101	0 0
			0.41	10.0	3.41	3.50	1.27	0.32					

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Kauf 2009

datum : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 12

Ster0001.001													
STATION	ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m³/s	K-WERT m³/0.33/s	BREITTE m	UMFANG m	FLAECHE m²	GESCHW m/s	HZV m	E-HOEH NN+M	FRUDE IE 0/00	ALPHA	KZW KZD
6 + 102.00	281.74	22.53	0.21	18.0	9.97	10.85	14.26	1.56	0.001	281.86	0.523	1.141	0 0
	22.53	1.82	0.25	10.0	3.20	3.25	0.84	0.29	0.000	281.86	5.20	1.063	0 0
			0.00	10.0	0.00	0.00	0.00	0.00					
6 + 110.00	281.77	22.53	22.53	18.0	6.70	4.14	14.52	1.55	0.001	281.90	0.336	1.000	12 0
	22.53	1.90	0.00	18.0	0.00	0.00	0.00	0.00		281.90	1.39	1.000	0 0
			0.00	10.0	0.00	0.00	0.00	0.00					
6 + 122.00	281.79	22.53	0.00	18.0	7.52	9.87	13.00	1.73	0.002	281.94	0.421	1.000	0 0
	22.53	2.42	0.00	10.0	0.00	0.00	0.00	0.00	0.000	281.94	6.42	1.000	0 0
			0.00	10.0	0.00	0.00	0.00	0.00					
6 + 230.00	282.29	22.53	0.05	10.0	1.04	1.16	0.26	0.20	0.000	282.44	0.471	1.071	0 0
	22.53	2.08	22.41	25.0	8.15	8.90	13.05	1.72	0.000	282.44	2.84	1.033	0 0
			0.07	10.0	0.87	1.11	0.30	0.22					
			0.08	10.0	5.76	5.76	0.59	0.13					
6 + 343.00	282.66	22.53	22.39	25.0	10.80	11.55	13.77	1.63	0.000	282.79	0.586	1.123	0 0
	22.53	1.56	0.06	10.0	2.32	2.34	0.36	0.17	0.000	282.79	3.35	1.057	0 0
			0.00	10.0	0.00	0.00	0.00	0.00					
6 + 410.00	282.96	22.53	22.53	25.0	9.30	10.16	9.84	2.29	0.029	283.22	0.711	1.000	0 0
	22.53	1.45	0.00	10.0	0.00	0.00	0.00	0.00	0.000	283.22	8.77	1.000	0 0
			0.09	10.0	1.46	1.53	0.35	0.27					
6 + 505.00	283.68	22.53	22.35	25.0	9.09	9.56	11.25	1.99	0.000	283.88	0.635	1.098	0 0
	22.53	1.59	0.08	10.0	1.50	1.56	0.33	0.25	0.000	283.88	5.09	1.045	0 0
			0.00	10.0	0.00	0.00	0.00	0.00					
6 + 589.00	284.19	22.53	22.53	25.0	10.10	10.75	10.45	2.15	0.004	284.42	0.676	1.000	0 0
	22.53	1.58	0.00	10.0	0.00	0.00	0.00	0.00	0.000	284.42	7.71	1.000	0 0
			0.01	10.0	0.60	0.61	0.04	0.12					
6 + 650.00	284.64	22.53	22.47	25.0	11.09	11.51	12.28	1.83	0.000	284.81	0.596	1.040	0 0
	22.53	1.47	0.05	10.0	1.42	1.47	0.25	0.21	0.000	284.81	4.91	1.019	0 0
			0.01	10.0	0.32	0.43	0.05	0.19					
6 + 731.00	285.12	22.53	22.52	25.0	11.31	11.98	12.26	1.84	0.000	285.29	0.586	1.010	0 0
	22.53	1.34	0.00	10.0	0.68	0.68	0.03	0.10	0.000	285.29	6.96	1.005	0 0
			0.00	11.1	0.15	0.25	0.02	0.23					
6 + 740.00	285.10	22.53	22.49	22.0	10.90	11.21	8.88	2.53	0.024	285.43	0.918	1.018	0 0
	22.53	1.26	0.03	10.9	0.52	0.62	0.09	0.39		285.43	18.08	1.008	0 0

Seite 15

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STATIONAERE WASSERSPIEGELLAGEN

Seite 16

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 3.06.2009

PROJEKT K1-strieg
 ZUSTAND Station 0
 VARIANTE HQ 50 1st
 DATEI ster0001

SEITE 13

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m³/s	K-WERT m³0.33/s	BREITE m	UMFANG m	FLAECHE m²	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD	
6 +	757.00	285.48	0.04	12.0	0.87	0.93	0.14	0.25	0.000	285.62	0.512	1.017	0 0
	22.53	1.51	22.49	22.0	11.33	12.05	13.34	1.69	0.000	5.13	5.13	1.008	0 0
			0.00	10.0	0.00	0.00	0.00	0.00					
6 +	834.00	286.01	0.05	10.0	0.98	1.03	0.16	0.31	0.019	286.28	0.781	1.036	0 0
	22.53	1.52	22.47	22.0	9.47	9.86	9.65	2.33	0.000	11.53	11.53	1.017	0 0
			0.01	10.0	0.46	0.51	0.05	0.23					
6 +	918.00	286.80	2.21	10.0	15.31	15.38	6.01	0.37	0.000	286.97	0.729	2.281	0 0
	22.53	1.73	19.32	22.0	6.38	6.59	9.80	1.97	0.000	4.73	4.73	1.438	0 0
			1.00	10.0	7.19	7.32	2.77	0.36					
6 +	920.00	286.80	0.00	10.0	0.00	0.00	0.00	0.00	0.044	287.03	0.575	1.000	31 5
	22.53	1.69	22.53	22.0	7.42	9.41	10.51	2.14	0.000	8.18	8.18	1.000	0 0
			0.00	10.0	0.00	0.00	0.00	0.00					
6 +	922.00	286.80	0.00	10.0	0.00	0.00	0.00	0.00	0.000	287.43	1.000	1.000	4 0
	22.53	1.59	22.53	22.0	5.09	6.89	6.41	3.51	0.000	28.05	28.05	1.000	0 0
			0.00	10.0	0.00	0.00	0.00	0.00					
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++++													
6 +	935.00	287.29	1.03	10.0	11.34	11.35	3.00	0.34	0.000	287.52	0.815	1.779	0 0
	22.53	2.14	20.58	22.0	5.11	6.94	9.25	2.42	0.000	6.96	6.96	1.295	0 0
			0.92	10.0	3.83	4.08	1.86	0.49					
6 +	939.00	287.35	1.49	10.0	12.59	12.61	4.19	0.36	0.000	287.54	0.712	1.912	0 0
	22.53	2.24	20.01	22.0	5.11	6.94	9.75	2.05	0.000	5.52	5.52	1.332	0 0
			1.03	10.0	3.55	4.07	2.13	0.48					
6 +	949.00	287.37	0.00	10.0	0.00	0.00	0.00	0.00	0.021	287.65	0.592	1.311	31 5
	22.53	2.51	20.37	22.0	3.82	7.49	8.35	2.44	0.000	10.63	10.63	1.120	0 0
			2.12	10.0	3.18	3.98	2.71	0.80					

Seite 17

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 3.06.2009

PROJEKT K1-strieg
 ZUSTAND Station 0
 VARIANTE HQ 50 1st
 DATEI ster0001

SEITE 14

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m³/s	K-WERT m³0.33/s	BREITE m	UMFANG m	FLAECHE m²	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD	
7 +	34.00	287.98	0.24	10.0	9.74	9.81	1.64 *	0.15	0.000	288.09	0.503	1.449	0 0
	22.53	2.44	21.42	22.0	8.00	8.83	14.48	1.48	0.000	2.34	2.34	1.184	0 0
			0.87	10.0	4.65	4.80	2.66	0.33					
7 +	90.00	288.11	0.21	10.0	10.50	10.58	1.44	0.14	0.001	288.24	0.599	1.433	0 0
	22.53	2.27	21.77	22.0	8.17	8.89	13.70	1.59	0.000	2.93	2.93	1.182	0 0
			0.56	10.0	6.24	6.31	2.13	0.26					
7 +	161.00	288.33	3.38	10.0	32.43	32.44	14.22	0.24	0.000	288.40	0.428	2.291	0 0
	22.53	2.12	19.05	22.0	9.59	10.24	15.76	1.21	0.000	1.70	1.70	1.436	0 0
			0.10	10.0	2.17	2.25	0.60	0.17					
7 +	253.00	288.53	0.00	10.0	0.55	0.55	0.03	0.07	0.019	288.62	0.386	1.003	0 0
	22.53	1.86	22.53	22.0	13.01	13.80	16.75	1.35	0.000	2.89	2.89	1.001	0 0
			0.00	10.0	0.00	0.00	0.00	0.00					
7 +	364.00	288.87	0.00	10.0	0.00	0.00	0.00	0.00	0.000	288.95	0.418	1.547	0 0
	22.53	1.65	17.15	22.0	9.10	10.00	12.23	1.40	0.000	3.10	3.10	1.187	0 0
			5.38	12.7	15.74	15.74	0.53	0.53					
7 +	458.00	289.26	0.06	10.0	0.78	0.93	0.19	0.29	0.044	289.46	0.599	1.032	0 0
			22.47	22.0	9.51	10.08	11.43	1.96					

Seite 18

22.53	1.52	0.00	10.0	0.37	0.41	0.03	0.15	6.74	1.015
7 + 567.50	289.93	0.00	10.0	9.07	9.00	0.00	0.00	0.429	1.275
22.53	1.58	6.47	18.0	15.45	15.62	9.07	0.71	3.24	1.094
7 + 571.00	289.86	0.00	10.0	0.00	0.00	0.00	0.00	0.673	1.000
22.53	1.49	0.00	10.0	10.72	11.70	10.70	0.00	10.32	1.000
7 + 574.50	289.75	0.00	10.0	0.00	0.00	0.00	0.00	1.000	1.000
22.53	1.32	0.00	10.0	7.01	7.98	7.13	0.00	23.92	1.000
+++++++ Engstelle mit Flüsswechsel, Energieminimum > EH(UW) ++++++									
7 + 577.00	289.83	0.00	10.0	0.00	0.00	0.00	0.00	0.956	1.000
22.53	1.36	0.00	10.0	7.08	8.08	7.38	0.00	21.77	1.000

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 15

ERGEBNISSE

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m3/s	K-WERT mN0.33/s	BREITE m	UMFANG m	FLAECH m2	GESCHW m/s	HZV m	E-HOEH NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
7 + 587.00	290.25	0.00	10.0	0.00	0.00	0.00	0.00	0.000	290.45	0.443	1.000	12	0
22.53	2.34	0.00	22.0	5.63	10.18	11.41	1.97	0.00	290.54	6.92	1.000	0	0
7 + 596.00	290.26	0.00	10.0	0.00	0.00	0.00	0.00	0.007	290.54	0.603	1.000	0	0
22.53	2.07	0.00	10.0	6.16	8.95	9.57	2.35	0.00	291.34	10.47	1.000	0	0
7 + 675.00	291.06	0.00	10.0	0.00	0.00	0.00	0.00	0.000	291.34	0.638	1.000	0	0
Seite 19													

22.53	2.22	0.00	10.0	0.00	0.00	0.00	0.00	9.85	1.000				
7 + 744.00	291.69	0.01	10.0	2.19	2.20	0.15	0.07	0.313	1.058				
22.53	2.28	0.08	10.0	3.00	18.04	21.86	1.02	1.65	1.027				
7 + 778.00	291.73	0.00	10.0	0.11	0.36	0.02	0.03	0.000	291.79	0.330	1.021	0	0
20.80	2.14	0.01	10.0	15.48	17.41	19.48	1.07	0.04	291.79	0.61	1.010	0	0
7 + 784.00	291.68	0.00	10.0	0.00	0.00	0.00	0.00	0.023	291.83	0.000	1.000	31	5
20.80	2.05	0.00	10.0	14.24	29.22	12.03	1.73	0.00	291.83	6.10	1.000	0	0
7 + 790.00	291.81	0.00	10.0	0.10	0.12	0.00	0.02	0.000	291.85	0.263	1.000	9	0
20.80	2.18	0.00	10.0	16.78	17.81	22.13	0.94	0.01	291.85	0.41	1.000	0	0
7 + 795.00	291.80	0.00	10.0	0.00	0.00	0.00	0.00	0.003	291.87	0.000	1.000	31	5
20.80	2.16	0.00	10.0	10.75	24.13	17.45	1.19	0.00	291.87	1.37	1.000	0	0
7 + 801.00	291.79	0.00	10.0	0.53	0.57	0.05	0.06	0.000	291.89	0.433	1.028	9	0
20.80	2.17	0.01	10.0	12.30	13.09	15.22	1.37	0.00	291.89	0.95	1.014	0	0
7 + 852.00	291.74	0.00	10.0	0.00	0.00	0.00	0.00	0.034	292.04	0.910	1.249	0	0
20.80	1.82	0.20	10.0	6.47	7.94	8.49	2.43	0.00	292.04	3.36	1.113	0	0
7 + 900.00	291.94	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.18	0.894	1.417	0	0
20.80	1.79	0.34	10.0	8.02	8.84	9.48	2.16	0.00	292.18	2.65	1.182	0	0

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 16

ERGEBNISSE

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ o.33/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
7 + 934.00	292.10	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.24	0.638	1.962	0 0
	20.80	19.72	40.0	8.40	17.39	6.00	1.70	0.000	292.24	1.34	1.371	
		1.08	10.0	17.33			0.18					
7 + 937.00	292.06	0.00	10.0	0.00	0.00	0.00	0.00	0.048	292.30	0.000	1.000	11 0
	20.80	20.80	40.0	6.41	15.41	9.67	2.15		292.30	5.39	1.000	
		2.02	40.0	0.00	0.00	0.00	0.00					
7 + 941.00	292.19	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.32	0.589	1.385	9 0
	20.80	20.46	40.0	9.50	10.51	12.86	1.59	0.000	292.32	1.21	1.169	
		2.18	10.0	11.72	11.73	2.66	0.13					
7 + 948.00	292.21	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.32	0.555	1.483	0 0
	20.80	20.34	40.0	9.61	10.64	13.49	1.51	0.000	292.32	1.03	1.207	
		2.25	10.0	13.44	13.45	3.49	0.13					
7 + 987.00	292.23	0.00	10.0	0.00	0.00	0.00	0.00	0.008	292.39	0.663	1.205	0 0
	20.80	20.65	40.0	9.27	10.25	11.54	1.79	0.008	292.39	1.71	1.094	
		2.04	10.0	8.09	8.10	1.27	0.12					
7 + 990.00	292.20	0.00	10.0	0.00	0.00	0.00	0.00	0.007	292.41	0.487	1.000	31 5
	20.80	20.80	40.0	6.15	9.29	10.46	1.99	0.007	292.41	2.11	1.000	
		2.00	10.0	0.00	0.00	0.00	0.00					
7 + 993.00	292.24	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.41	0.431	1.000	0 0
	20.80	20.80	40.0	6.33	9.55	11.46	1.82	0.000	292.41	1.62	1.000	
		1.99	10.0	0.00	0.00	0.00	0.00					
8 + 27.00	292.29	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.47	0.461	1.000	0 0
	20.80	20.80	40.0	6.32	9.38	10.94	1.90	0.000	292.47	1.84	1.000	
		1.91	10.0	0.00	0.00	0.00	0.00					
8 + 34.00	292.27	0.00	10.0	0.00	0.00	0.00	0.00	0.002	292.49	0.538	1.000	31 5
	20.80	20.80	40.0	6.41	9.05	9.92	2.10	0.002	292.49	2.43	1.000	
		1.87	10.0	0.00	0.00	0.00	0.00					
8 + 41.00	292.28	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.51	0.545	1.000	0 0
	20.80	20.80	40.0	6.14	8.96	9.69	2.15	0.000	292.51	2.59	1.000	
		1.85	10.0	0.00	0.00	0.00	0.00					
8 + 89.00	292.39	0.00	10.0	0.00	0.00	0.00	0.00	0.001	292.65	0.595	1.000	0 0
	20.80	20.80	40.0	6.13	8.78	9.15	2.27	0.001	292.65	3.06	1.000	
		1.76	10.0	0.00	0.00	0.00	0.00					

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

STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Kauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 50 1st
DATEI Ster0001

ERGEBNISSE
SEITE 17

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ o.33/s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
8 + 95.00	292.42	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.67	0.568	1.000	31 5
	20.80	20.80	40.0	6.28	9.02	9.51	2.19	0.000	292.67	2.79	1.000	
		1.77	10.0	0.00	0.00	0.00	0.00					
8 + 101.00	292.44	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.69	0.582	1.000	0 0
	20.80	20.80	40.0	6.25	9.27	9.33	2.23	0.000	292.69	3.07	1.000	
		1.87	10.0	0.00	0.00	0.00	0.00					
8 + 150.00	292.58	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.84	0.583	1.000	0 0
	20.80	20.80	40.0	6.00	8.83	9.20	2.26	0.000	292.84	3.02	1.000	
		1.87	10.0	0.00	0.00	0.00	0.00					
8 + 206.00	292.79	0.00	10.0	0.00	0.00	0.00	0.00	0.000	292.98	0.484	1.000	0 0
	20.80	20.80	40.0	6.54	9.47	10.87	1.91	0.000	292.98	1.90	1.000	
		1.81	10.0	0.27	0.00	0.00	0.00					
8 + 243.00	292.86	0.00	10.0	0.00	0.00	0.00	0.00	0.000	293.05	0.495	1.000	0 0
	20.80	20.80	40.0	6.78	9.53	10.68	1.95	0.000	293.05	2.04	1.000	
		1.72	10.0	0.00	0.00	0.00	0.00					
8 + 244.00	292.86	0.00	10.0	0.00	0.00	0.00	0.00	0.000	293.06	0.496	1.000	31 5
	20.80	20.80	40.0	6.78	9.53	10.67	1.95	0.000	293.06	2.04	1.000	
		1.72	10.0	0.00	0.00	0.00	0.00					
8 + 245.00	292.87	0.00	10.0	0.00	0.00	0.00	0.00	0.000	293.05	0.487	1.000	0 0
	20.80	20.80	40.0	7.39	9.85	11.12	1.87	0.000	293.05	1.86	1.000	
		1.74	10.0	0.00	0.00	0.00	0.00					

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Ster0001.001													
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\O.33/s	m	m	m ²	m/s	m	NN+M	IE O/oo	ALPHAS		
8 + 253.00	292.85	20.80	37.3	6.27	9.15	9.71	2.14	0.004	293.08	0.550	1.000	0	0
20.80	1.80	0.00	10.0	0.00	0.00	0.00	0.00			3.06	1.000		
8 + 254.00	292.85	0.00	10.0	0.00	0.00	0.00	0.00	0.000	293.08	0.543	1.000	31	5
20.80	1.81	0.00	40.0	6.27	9.17	9.79	2.13			2.59	1.000		
8 + 255.00	292.85	0.00	10.0	0.00	0.00	0.00	0.00	0.000	293.08	0.539	1.000	0	0
20.80	1.82	0.00	37.3	6.28	9.19	9.84	2.11			2.94	1.000		
8 + 274.00	292.84	0.00	10.0	0.00	0.00	0.00	0.00	0.010	293.17	0.659	1.000	0	0
20.80	1.90	0.00	20.80	5.33	8.11	8.15	2.55			5.18	1.000		
20.80	1.90	0.00	10.0	0.00	0.00	0.00	0.00				1.000		

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STATIONAERE WASSERSPIEGELLAGEN
PROGRAMM WSPR2009 (C.) Kauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 18

ERGEBNISSE

Seite 23

Ster0001.001													
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\O.33/s	m	m	m ²	m/s	m	NN+M	IE O/oo	ALPHAS		
8 + 341.00	293.19	0.00	10.0	0.00	0.00	0.00	0.00	0.001	293.48	0.612	1.000	0	0
20.80	1.96	0.00	40.0	5.66	8.61	8.74	2.38			3.47	1.000		
8 + 347.00	293.36	0.00	10.0	0.00	0.00	0.00	0.00	0.000	293.49	0.390	1.000	11	0
20.80	2.09	0.00	40.0	7.61	11.05	13.02	1.60			1.28	1.000		
8 + 353.00	293.35	0.00	10.0	0.00	0.00	0.00	0.00	0.001	293.50	0.430	1.000	0	0
20.80	2.07	0.00	40.0	7.48	10.62	12.13	1.71			1.54	1.000		
8 + 357.00	293.36	0.00	10.0	0.00	0.00	0.00	0.00	0.000	293.51	0.431	1.000	0	0
20.80	2.07	0.00	40.0	7.48	10.61	12.10	1.72			1.55	1.000		
8 + 398.00	293.38	0.00	10.0	0.00	0.00	0.00	0.00	0.013	293.63	0.630	1.000	0	0
20.80	1.70	0.00	40.0	7.43	9.88	9.38	2.22			3.29	1.000		
8 + 402.00	293.43	0.00	10.0	0.00	0.00	0.00	0.00	0.000	293.65	0.000	1.000	11	0
20.80	1.71	0.00	40.0	7.25	16.78	10.02	0.00			5.36	1.000		
8 + 406.00	293.47	0.00	10.0	0.00	0.00	0.00	0.00	0.000	293.67	0.521	1.000	9	0
20.80	1.81	0.00	40.0	7.14	9.69	10.51	1.98			2.19	1.000		

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STATIONAERE WASSERSPIEGELLAGEN
PROGRAMM WSPR2009 (C.) Kauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 19

ERGEBNISSE

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\O.33/s	m	m	m ²	m/s	m	NN+M	IE O/oo	ALPHAS		
		0.00	40.0	0.00	0.00	0.00	0.00						

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8 + 410.00	293.50	20.80	40.0	7.14	9.84	11.03	1.89	0.000	293.68	0.484	1.000	0
20.80	1.88	0.00	10.0	0.00	0.00	0.00	0.00	0.000	0.00	1.91	1.000	0
8 + 459.00	293.82	20.80	10.0	0.00	0.00	0.00	0.00	0.000	294.34	1.000	1.000	4
20.80	1.26	0.00	10.0	0.00	0.00	0.00	0.00	0.000	8.19	1.000	1.000	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++++ !!! Profilstand zum Öl ueberpruefen !!!												
8 + 511.00	294.29	20.80	10.0	0.00	0.00	0.00	0.00	0.000	294.78	1.000	1.000	4
20.80	1.29	0.00	10.0	0.00	0.00	0.00	0.00	0.000	8.79	1.000	1.000	0
8 + 560.00	294.70	20.80	10.0	0.00	0.00	0.00	0.00	0.000	295.08	0.841	1.000	0
20.80	1.41	0.00	10.0	0.00	0.00	0.00	0.00	0.000	6.17	1.000	1.000	0
8 + 572.00	294.69	20.80	10.0	0.00	0.00	0.00	0.00	0.000	295.21	1.000	1.000	4
20.80	1.33	0.00	10.0	0.00	0.00	0.00	0.00	0.000	9.10	1.000	1.000	5
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++++												
8 + 578.00	294.92	20.80	10.0	0.00	0.00	0.00	0.00	0.000	295.23	0.698	1.000	0
20.80	1.73	0.00	10.0	0.00	0.00	0.00	0.00	0.000	4.36	1.000	1.000	0
8 + 604.00	295.06	20.80	10.0	0.00	0.00	0.00	0.00	0.000	295.33	0.614	1.000	0
20.80	1.85	0.00	10.0	0.00	0.00	0.00	0.00	0.000	3.38	1.000	1.000	0
8 + 605.00	295.09	20.80	10.0	0.00	0.00	0.00	0.00	0.000	295.33	0.583	1.000	11
20.80	1.87	0.00	10.0	0.00	0.00	0.00	0.00	0.000	2.94	1.000	1.000	0
8 + 606.00	295.07	20.80	10.0	0.00	0.00	0.00	0.00	0.001	295.33	0.614	1.000	0
20.80	1.85	0.00	10.0	0.00	0.00	0.00	0.00	0.000	2.78	1.000	1.000	0
8 + 610.00	295.08	20.80	10.0	0.00	0.00	0.00	0.00	0.000	295.34	0.610	1.000	0
20.80	1.86	0.00	10.0	0.00	0.00	0.00	0.00	0.000	3.34	1.000	1.000	0

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Seite 25

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	PROUDE	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													
STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009													
PROJEKT K1-strieg													
ZUSTAND Station 0													
VARIANTE HQ 50 1st													
DATEI Ster0001													
DATUM : 3.06.2009													
SEITE 20													
ERGEBNISSE													
8 + 624.00	295.11	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.39	0.620	1.000	0	0
20.80	1.83	0.00	10.0	0.00	0.00	0.00	0.00	0.000	3.53	1.000	1.000	0	0
8 + 625.00	295.07	0.00	10.0	0.00	0.00	0.00	0.00	0.002	295.41	0.702	1.000	11	0
20.80	1.71	0.00	10.0	0.00	0.00	0.00	0.00	0.000	4.50	1.000	1.000	0	0
8 + 626.00	295.07	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.41	0.705	1.000	0	0
20.80	1.71	0.00	10.0	0.00	0.00	0.00	0.00	0.000	4.54	1.000	1.000	0	0
8 + 630.00	295.10	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.42	0.683	1.000	0	0
20.80	1.70	0.00	10.0	0.00	0.00	0.00	0.00	0.000	4.21	1.000	1.000	0	0
8 + 631.00	295.11	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.43	0.687	1.000	11	0
20.80	1.70	0.00	10.0	0.00	0.00	0.00	0.00	0.000	4.24	1.000	1.000	0	0
8 + 632.00	295.11	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.43	0.686	1.000	0	0
20.80	1.70	0.00	10.0	0.00	0.00	0.00	0.00	0.000	4.24	1.000	1.000	0	0
8 + 643.00	295.19	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.47	0.625	1.000	0	0
20.80	1.74	0.00	10.0	0.00	0.00	0.00	0.00	0.000	3.50	1.000	1.000	0	0
8 + 644.00	295.21	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.48	0.000	1.000	11	0
20.80	1.75	0.00	10.0	0.00	0.00	0.00	0.00	0.000	6.46	1.000	1.000	0	0

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8 + 645.00	295.22	20.80	40.0	6.13	8.97	8.99	2.31	0.000	295.50	0.610	1.000	9	0
20.80	1.76	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.56	0.606	1.000	0	0
8 + 659.00	295.27	20.80	40.0	5.92	9.05	8.93	2.33	0.000	295.55	0.606	1.000	0	0
20.80	1.70	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.62	0.603	1.000	0	0
8 + 661.00	295.24	0.00	10.0	0.00	0.00	0.00	0.00	0.002	295.56	0.605	1.000	12	0
20.80	1.67	0.00	40.0	4.75	9.47	8.31	2.50	0.000	295.66	0.541	1.000	9	0

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT k1-strieg Station 0 + 1.00 bis 0 + 23380.00 m
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI Ster0001

ERGEBNISSE

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-HOEHEN NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
8 + 663.00	295.29	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.56	0.606	1.000	0	0
20.80	1.71	0.00	40.0	5.94	8.87	8.93	2.33	0.000	295.56	0.606	1.000	0	0
8 + 680.00	295.34	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.62	0.603	1.000	0	0
20.80	1.71	0.00	40.0	5.94	8.88	8.96	2.32	0.000	295.62	0.603	1.000	0	0
8 + 687.00	295.40	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.64	0.555	1.000	0	0
20.80	1.77	0.00	40.0	6.49	9.54	9.76	2.13	0.000	295.64	0.555	1.000	0	0
8 + 688.00	295.37	0.00	10.0	0.00	0.00	0.00	0.00	0.001	295.65	0.000	1.000	11	0
20.80	1.74	0.00	40.0	6.48	15.82	9.07	2.29	0.000	295.65	0.000	1.000	11	0
8 + 689.00	295.43	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.66	0.541	1.000	9	0
20.80	1.79	0.00	40.0	6.49	9.59	9.93	2.09	0.000	295.66	0.541	1.000	9	0

Seite 27

Ster0001.001

8 + 711.00	295.52	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.71	0.494	1.000	0	0
20.80	1.80	0.00	40.0	7.21	9.96	10.92	1.91	0.000	295.71	0.494	1.000	0	0
8 + 718.00	295.45	0.00	10.0	0.00	0.00	0.00	0.00	0.018	295.77	0.000	1.000	11	0
20.80	1.70	0.00	40.0	7.15	16.38	8.30	2.51	0.000	295.77	0.000	1.000	11	0
8 + 721.00	295.67	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.82	0.427	1.000	9	0
20.80	1.85	0.00	40.0	7.60	10.88	12.25	1.70	0.000	295.82	0.427	1.000	9	0
8 + 772.00	295.76	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.88	0.372	1.000	0	0
20.80	2.01	0.00	40.0	7.51	11.19	13.38	1.55	0.000	295.88	0.372	1.000	0	0
8 + 778.00	295.66	0.00	10.0	0.00	0.00	0.00	0.00	0.030	295.93	0.620	1.000	12	0
20.80	1.92	0.00	40.0	6.22	9.04	8.94	2.33	0.000	295.93	0.620	1.000	12	0
8 + 784.00	295.72	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.95	0.552	1.000	0	0
20.80	1.97	0.00	40.0	6.74	9.81	9.91	2.10	0.000	295.95	0.552	1.000	0	0

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT k1-strieg Station 0 + 1.00 bis 0 + 23380.00 m
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI Ster0001

ERGEBNISSE

SEITE 22

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-HOEHEN NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
8 + 787.00	295.73	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.96	0.552	1.000	0	0
20.80	1.97	0.00	40.0	6.74	9.81	9.91	2.10	0.000	295.96	0.552	1.000	0	0

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8 +	846.00	295.85	20.80	40.0	6.64	9.09	7.55	2.76	0.022	296.24	0.825	1.000	0	0
	20.80	1.62	0.00	10.0	0.00	0.00	0.00	0.00		6.08	1.000			
8 +	852.00	295.83	20.80	40.0	0.00	0.00	0.00	0.00	0.005	296.31	0.000	1.000	11	0
	20.80	1.55	0.00	10.0	0.00	14.07	6.81	3.05		15.34	1.000			
8 +	858.00	295.98	20.80	40.0	0.00	0.00	0.00	0.00	0.000	296.39	0.739	1.000	9	0
	20.80	1.76	0.00	10.0	0.00	0.00	0.00	0.00		5.81	1.000			
8 +	862.00	296.06	20.80	40.0	0.00	0.00	0.00	0.00	0.000	296.40	0.653	1.000	0	0
	20.80	1.89	0.00	10.0	0.00	8.43	7.97	2.61		4.59	1.000			
8 +	897.00	296.28	20.80	40.0	0.00	0.00	0.00	0.00	0.000	296.53	0.527	1.000	0	0
	20.80	2.14	0.00	10.0	0.00	0.00	0.00	0.00		2.93	1.000			
8 +	898.00	296.31	20.80	40.0	0.00	0.00	0.00	0.00	0.000	296.54	0.468	1.000	11	0
	20.80	2.18	0.00	10.0	0.00	9.07	10.09	2.06		2.31	1.000			
8 +	899.00	296.29	20.80	40.0	0.00	0.00	0.00	0.00	0.001	296.54	0.522	1.000	0	0
	20.80	2.15	0.00	10.0	0.00	8.93	9.39	2.22		2.87	1.000			
8 +	921.00	296.37	20.80	40.0	0.00	0.00	0.00	0.00	0.000	296.59	0.499	1.000	0	0
	20.80	2.13	0.00	10.0	0.00	9.08	9.93	2.10		2.43	1.000			
8 +	922.00	296.19	20.80	40.0	0.00	0.00	0.00	0.00	0.037	296.64	0.000	1.000	11	0
	20.80	1.95	0.00	10.0	0.00	13.44	7.05	2.95		12.87	1.000			
8 +	923.00	296.48	20.80	40.0	0.00	0.00	0.00	0.03	0.000	296.66	0.463	1.005	9	0
	20.80	2.22	0.00	10.0	0.00	9.18	11.10	1.87		1.70	1.003			

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT Kl-strieg

Seite 29

Ster0001.001

ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ_50_1st
DATEI Ster0001

SEITE 23

ERGEBNISSE

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	BREITE m	UMFANG m	FLAECH m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
8 +	931.00	296.48	20.80	40.0	0.00	0.00	0.00	0.000	296.68	0.444	1.000	0	0
	20.80	2.14	0.00	10.0	0.00	10.67	1.95		1.91	1.000			
8 +	976.00	296.58	20.80	40.0	0.00	0.00	0.00	0.000	296.75	0.423	1.000	0	0
	20.80	2.21	0.00	10.0	0.00	11.09	1.88		1.73	1.000			
9 +	15.00	296.65	20.80	30.0	0.00	0.00	0.00	0.001	296.86	0.475	1.003	0	0
	20.80	2.09	0.00	10.0	0.00	10.46	1.99		3.60	1.001			
9 +	18.00	296.57	20.77	30.0	0.00	0.00	0.00	0.012	296.90	0.000	1.032	11	0
	20.80	2.00	0.03	10.0	0.00	8.25	2.52		13.98	1.015			
9 +	21.00	296.71	20.59	30.0	0.00	0.00	0.00	0.000	296.93	0.721	1.199	9	0
	20.80	2.19	0.21	10.0	0.00	9.72	2.12		4.42	1.091			
9 +	26.00	296.77	20.27	30.0	0.00	0.00	0.00	0.000	296.95	0.619	1.350	0	0
	20.80	2.35	0.53	10.0	0.00	7.21	1.91		3.25	1.150			
9 +	79.00	296.97	18.90	30.0	0.00	3.66	1.53	0.000	297.07	0.672	2.751	0	0
	20.80	2.31	1.33	10.0	0.00	7.66	0.17		1.65	1.598			
9 +	149.00	297.08	18.89	30.0	0.00	6.43	0.23	0.002	297.22	0.693	2.351	0	0
	20.80	1.93	0.44	10.0	0.00	10.86	1.74		2.45	1.479			
9 +	181.00	297.15	20.67	30.0	0.00	10.47	1.97	0.027	297.35	0.746	1.183	0	0
	20.80	1.95	0.00	10.0	0.00	8.77	0.00		3.42	1.085			
9 +	186.00	297.08	20.80	30.0	0.00	7.87	2.64	0.035	297.44	0.000	1.000	11	0
	20.80	2.00	0.00	10.0	0.00	15.24	0.00						

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20.80	1.87	0.00	30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.74	1.000
9 + 191.00	297.38	0.06	10.0	6.48	6.49	0.69	0.09	0.000	297.50	0.466	1.093	9 0
20.80	2.32	0.00	30.0	7.00	10.25	13.72	1.51	0.00	297.50	1.772	1.044	

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STATIONNAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Krauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 24

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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	FRUDE IE o/oo	ALPHA	KZW KZD
9 + 195.00	297.41	0.22	10.0	6.29	6.35	1.57	0.14	0.000	297.50	0.482	1.831	0 0
20.80	2.47	19.70	30.0	7.00	10.29	14.76	1.34	0.000	297.50	1.23	1.325	
20.80	2.18	0.88	10.0	15.90	16.36	5.33	0.17	0.010	297.54	2.08	1.119	0 0
9 + 214.00	297.42	0.00	10.0	0.00	0.00	0.00	0.00	0.010	297.54	0.495	1.271	0 0
20.80	2.18	0.40	10.0	7.14	7.41	12.75	* 0.19	0.003	297.54	2.08	1.119	
9 + 215.00	297.36	0.00	10.0	0.00	0.00	0.00	0.00	0.003	297.56	0.000	1.385	11 0
20.80	2.11	19.91	30.0	7.44	16.68	9.97	2.00	0.000	297.56	8.81	1.160	
20.80	2.21	0.89	10.0	11.15	11.26	2.55	0.35	0.000	297.57	0.529	1.404	9 0
9 + 216.00	297.46	0.01	10.0	1.36	1.39	0.12	0.08	0.000	297.57	1.52	1.174	
20.80	2.21	20.36	30.0	7.67	9.85	13.85	1.47	0.010	297.62	0.522	1.079	0 0
9 + 235.00	297.47	0.03	10.0	12.99	13.05	2.98	0.15	0.010	297.62	2.38	1.038	
20.80	2.20	20.75	30.0	6.51	9.30	11.98	1.73	0.09	297.64	0.000	1.115	11 0
9 + 236.00	297.38	0.00	10.0	0.00	0.00	0.00	0.00	0.011	297.64	10.91	1.054	
20.80	2.11	20.70	30.0	6.37	14.92	9.15	2.26	0.000	297.64	0.000	1.115	11 0
20.80	2.11	0.10	10.0	8.33	8.44	0.58	0.18					

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9 + 237.00	297.51	0.05	10.0	1.75	2.14	0.34	0.14	0.000	297.66	0.502	1.108	9 0
20.80	2.25	20.71	30.0	6.51	9.34	12.29	1.68	0.000	297.66	2.18	1.051	
20.80	2.24	0.05	10.0	3.13	3.14	0.40	0.12	0.003	297.68	3.19	1.060	0 0
9 + 243.00	297.49	0.01	10.0	0.58	0.72	0.06	* 0.11	0.000	297.73	0.000	1.135	11 0
20.80	2.24	20.60	30.0	5.48	8.74	10.69	1.94	0.007	297.73	10.93	1.062	
9 + 248.00	297.44	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.77	0.570	1.167	9 0
20.80	2.21	20.66	30.0	5.38	13.53	8.79	2.35	0.000	297.77	2.87	1.077	
9 + 253.00	297.59	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.82	0.568	1.096	0 0
20.80	2.30	20.62	30.0	5.50	8.81	11.03	1.87	0.000	297.82	2.98	1.045	
9 + 270.00	297.64	0.00	10.0	0.31	0.34	0.02	0.09	0.000	297.82	0.568	1.096	0 0
20.80	2.18	20.72	30.0	5.59	8.67	10.88	1.90	0.000	297.82	2.98	1.045	

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STATIONNAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Krauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 25

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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	FRUDE IE o/oo	ALPHA	KZW KZD
9 + 271.00	297.54	0.00	10.0	0.00	0.00	0.00	0.00	0.011	297.85	0.000	1.148	11 0
20.80	2.06	20.62	30.0	5.55	13.67	8.38	2.46	0.000	297.85	12.94	1.068	
9 + 272.00	297.68	0.01	10.0	0.82	0.84	0.08	0.11	0.000	297.86	0.574	1.128	9 0
20.80	2.21	20.68	30.0	5.59	8.67	11.08	1.87	0.000	297.86	2.80	1.060	
9 + 280.00	297.72	0.05	10.0	2.61	2.63	0.35	0.13	0.000	297.88	0.508	1.097	0 0
20.80	2.06	20.71	30.0	5.95	9.36	11.80	1.76					

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20.80	2.24	0.04	10.0	1.68	1.78	0.29	0.15	2.51	1.045
9 + 281.00	297.67 DH	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.00
20.80	2.18	0.13	10.0	5.67	14.34	10.01	2.06	0.003	297.89
9 + 282.00	297.76	0.10	10.0	3.00	3.19	0.63	0.16	0.000	297.89
20.80	2.27	0.08	10.0	5.92	2.09	11.98	0.18	0.000	297.91
9 + 307.00	297.81	0.04	10.0	2.04	2.54	0.35	0.13	0.001	297.97
20.80	2.31	0.02	10.0	5.68	8.36	11.73	1.77	0.001	297.97
9 + 308.00	297.72 DH	0.00	10.0	0.00	0.00	0.17	0.11	0.000	297.97
20.80	2.23	0.25	10.0	5.68	14.02	9.13	2.25	0.006	297.98
9 + 309.00	297.84	0.03	10.0	2.85	7.35	1.06	0.00	0.000	297.98
20.80	2.34	0.02	10.0	5.75	1.08	0.17	0.14	0.000	298.00
9 + 336.00	297.88	0.00	10.0	0.00	0.00	0.31 *	0.10	0.000	298.00
20.80	2.18	0.00	10.0	5.34	8.67	11.91	1.74	0.000	298.00
9 + 337.00	297.88	0.00	10.0	0.00	0.00	0.17	0.14	0.000	298.00
20.80	2.17	0.00	10.0	5.34	8.67	10.23	2.03	0.006	298.09
9 + 338.00	297.88	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.09
20.80	2.16	0.00	10.0	5.34	8.64	10.16	2.05	0.000	298.10
ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH		0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.10
Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0		0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.10

STER0001.001
 DATUM : 3.06.2009
 PROGRAMM WSPR2009 (C.) Knauf 2009
 STATIONAERE WASSERSPIEGELLAGEN
 PROJEKT Kl-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 50 1st
 DATEI Ster0001

ERGEBNISSE
 SEITE 26
 Seite 33

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ^{1/0.33} /s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEH NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
9 + 352.00	298.02	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.13	0.350	1.005	0	0
20.80	2.06	0.00	10.0	7.44	0.48	0.04	0.08	0.000	298.13	1.56	1.003	0	0
9 + 354.00	298.03	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.14	0.358	1.000	11	0
20.80	2.03	0.00	10.0	8.40	11.04	14.24	1.46	0.000	298.14	1.69	1.000	11	0
9 + 356.00	298.03	0.03	10.0	1.46	1.64	0.27 *	0.12	0.000	298.14	0.375	1.035	0	0
20.80	2.05	0.00	10.0	7.77	0.28	0.01	0.05	0.000	298.14	1.60	1.017	0	0
9 + 371.00	298.07	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.16	0.318	1.000	0	0
20.80	2.25	0.00	10.0	8.71	11.68	15.62	1.33	0.000	298.16	1.34	1.000	0	0
9 + 372.00	298.07	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.16	0.315	1.000	11	0
20.80	2.26	0.00	10.0	8.37	11.26	15.49	1.34	0.000	298.16	1.31	1.000	11	0
9 + 373.00	298.07	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.16	0.320	1.000	0	0
20.80	2.24	0.00	10.0	8.71	11.66	15.53	1.34	0.000	298.16	1.36	1.000	0	0
9 + 407.00	298.52	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.58	0.420	1.000	65	0
20.80	2.51	0.00	10.0	29.59	33.87	19.48	1.07	0.000	298.58	23.85	1.000	65	0
9 + 408.00	298.39 DH	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.61	0.000	1.475	11	0
20.80	2.38	0.00	10.0	5.65	14.10	9.27	2.10	0.019	298.61	8.56	1.189	11	0
9 + 409.00	298.50	0.36	10.0	16.37	16.46	2.92	0.12	0.000	298.62	0.618	1.732	9	0
20.80	2.50	20.07	10.0	5.75	8.66	12.96	1.55	0.000	298.62	1.55	1.297	9	0
9 + 432.00	298.54	0.01	10.0	0.12	2.04	0.12	0.05	0.009	298.67	0.345	1.048	0	0
20.80	2.73	20.78	10.0	5.62	6.60	12.90	1.61	0.009	298.67	1.18	1.023	0	0
9 + 438.00	298.50 DH	0.00	10.0	0.00	0.00	0.00	0.00	0.007	298.70	0.000	1.070	11	0
20.80	2.75	20.72	10.0	5.86	15.64	10.63	1.96	0.007	298.70	7.11	1.010	11	0

STER0001.001
 SEITE 26
 Seite 34

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Kauf 2009

DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 50 1st
DATEI ster0001

SEITE 27

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m³/s	K-WERT m\A.33/s	=====			UMFANG m	FLAECHE m2	GESCHW m/s	HZV m	E-HOEH NN+m	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
				BREITE m	BREITE m	BREITE m								
9 + 442.00	298.65	0.02	10.0	5.86	5.86	0.39	0.06	0.06	0.000	298.74	0.500	1.568	9	0
20.80	2.73	20.08	30.0	6.04	10.42	14.68	1.37	0.16		1.32	1.235			
		0.70	10.0	14.34	14.46	4.31	0.16							
9 + 477.00	298.67	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.011	298.80	0.476	1.077	0	0
20.80	2.46	20.76	30.0	5.95	8.43	12.97	1.60	0.07		1.60	1.037			
		0.04	10.0	5.76	7.49	0.32	0.07							
9 + 481.00	298.67	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.000	298.82	0.000	1.315	11	0
20.80	2.44	19.96	30.0	8.39	20.17	11.62	1.72	0.33		6.84	1.132			
		0.84	10.0	9.85	10.15	2.54	0.33							
9 + 485.00	298.73	0.05	10.0	7.53	7.54	0.65	0.08	0.00	0.000	298.85	0.472	1.091	9	0
20.80	2.48	20.75	30.0	6.09	9.96	13.87	1.50	0.04		1.60	1.043			
		0.00	10.0	0.57	0.62	0.02	0.04							
9 + 513.00	298.77	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.000	298.90	0.471	1.097	0	0
20.80	2.38	20.73	30.0	6.05	9.90	13.11	1.58	0.10		1.91	1.046			
		0.07	10.0	6.00	6.05	0.69	0.10							
9 + 541.00	298.83	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.001	298.96	0.361	1.000	0	0
20.80	2.34	20.80	30.0	6.05	9.85	12.83	1.62	0.02		2.05	1.000			
		0.00	10.0	0.19	0.19	0.00	0.02							
9 + 547.00	298.79	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.009	299.01	0.000	1.000	11	0
20.80	2.28	20.80	30.0	6.20	15.31	10.22	2.04	0.00		7.89	1.000			
		0.00	10.0	0.00	0.00	0.00	0.00							
		0.33	10.0	11.27	11.30	2.77	0.12							

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STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m³/s	K-WERT m\A.33/s	=====			UMFANG m	FLAECHE m2	GESCHW m/s	HZV m	E-HOEH NN+m	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
				BREITE m	BREITE m	BREITE m								
9 + 555.00	298.96	0.24	30.0	9.24	10.71	16.70	1.21	0.10	0.000	299.04	0.476	1.596	9	0
20.80	2.44	20.23	10.0	13.69	13.79	2.52	0.10			0.90	1.249			
		0.03	10.0	5.69	5.71	0.47	0.07							
9 + 612.00	299.02	0.36	30.0	10.34	11.33	15.13	1.35	0.13	0.001	299.11	0.539	1.422	0	0
20.80	2.23	20.36	10.0	13.92	13.93	3.02	0.13			1.37	1.182			
		0.40	10.0	13.92	13.93	3.02	0.13							
9 + 648.00	299.05	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.034	299.24	0.577	1.000	0	0
20.80	1.79	20.80	30.0	9.43	10.30	10.78	1.93	0.00		3.90	1.000			
		0.00	10.0	0.00	0.00	0.00	0.00							
9 + 650.00	298.96	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.015	299.28	0.000	1.000	11	0
20.80	1.68	20.80	30.0	6.99	16.06	8.40	2.48	0.00		16.15	1.000			
		0.00	10.0	0.00	0.00	0.00	0.00							

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Kauf 2009

DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 50 1st
DATEI ster0001

SEITE 28

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m³/s	K-WERT m\A.33/s	=====			UMFANG m	FLAECHE m2	GESCHW m/s	HZV m	E-HOEH NN+m	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
				BREITE m	BREITE m	BREITE m								
9 + 652.00	299.18	0.04	10.0	6.66	6.67	0.52	0.08	0.00	0.000	299.30	0.529	1.071	9	0
20.80	2.07	20.76	30.0	9.89	11.51	13.58	1.53	0.00		2.08	1.034			
		0.00	10.0	0.00	0.00	0.00	0.00							
9 + 656.00	299.19	0.05	10.0	6.80	6.81	0.60	0.09	0.00	0.000	299.31	0.531	1.082	0	0
20.80	2.08	20.75	30.0	9.90	11.53	13.70	1.51	0.01		2.02	1.039			
		0.00	10.0	0.56	0.56	0.00	0.01							
9 + 708.00	299.29	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.005	299.45	0.479	1.000	0	0
20.80	2.23	20.80	30.0	8.32	10.27	11.69	1.78	0.00		2.96	1.000			
		0.00	10.0	0.00	0.00	0.00	0.00							
9 + 722.00	299.27	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.009	299.52	0.616	1.000	0	0
20.80	1.94	20.80	30.0	7.26	9.06	9.45	2.20	0.00		5.09	1.000			
		0.00	10.0	0.00	0.00	0.00	0.00							

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ster0001.001												
9 +	733.00	299.38	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	20.80	1.89	20.80	30.0	6.13	9.65	11.07	1.88	0.000	299.57	0.446	1.000
			0.00	10.0	0.00	0.00	0.00	0.00		5.27	1.000	11 0
9 +	738.00	299.41	0.00	10.0	0.00	0.00	0.00	0.00	0.000	299.60	0.463	1.000
	20.80	1.96	20.80	10.0	6.10	9.12	10.79	1.93	0.000	3.29	1.000	0 0
9 +	795.00	299.65	0.00	10.0	0.00	0.00	0.00	0.00	0.000	299.76	0.431	1.059
	20.80	2.15	20.72	23.0	2.77	10.90	14.09	1.47		2.46	1.028	0 0
9 +	845.00	299.78	0.00	10.0	0.00	0.00	0.00	0.00	0.016	299.98	0.582	1.000
	20.80	2.08	20.80	10.0	8.85	9.86	10.49	0.00		5.80	1.000	0 0
9 +	900.00	300.10	0.00	10.0	0.00	0.00	0.00	0.00	0.000	300.26	0.485	1.000
	20.80	2.39	20.80	23.0	8.77	10.12	11.80	1.76		4.05	1.000	0 0
9 +	957.00	300.33	0.00	10.0	0.00	0.00	0.00	0.00	0.000	300.49	0.505	1.000
	20.80	1.95	20.80	25.0	9.47	10.53	11.79	1.76		4.28	1.000	0 0
9 +	997.00	300.50	0.00	10.0	0.00	0.00	0.00	0.00	0.006	300.72	0.632	1.000
	20.80	1.74	20.80	25.0	8.74	9.69	9.89	2.10		6.89	1.000	0 0

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Krauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 50 1st
DATEI ster0001

SEITE 29

ERGEBNISSE

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	PROUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ³ /s	m	m ²	m ²	m/s	m	NN+m	IE 0/00	ALPHAS		
10 +	2.00	300.53	20.80	25.0	5.82	8.95	9.71	2.14	0.000	300.76	0.529	1.000	11 0
	20.80	1.79	0.00	10.0	0.00	0.00	0.00	0.00		6.58	1.000		
10 +	9.00	300.54	20.80	23.0	5.59	8.64	9.23	2.25	0.001	300.80	0.560	1.000	0 0
	20.80	1.75	0.00	10.0	0.00	0.00	0.00	0.00		7.44	1.000		
10 +	57.00	300.94	20.79	25.0	12.66	13.44	20.20	1.03	0.000	301.00	0.267	1.015	0 0
	20.80	1.85	0.01	10.0	0.69	0.74	0.09	0.08		0.98	1.007		
10 +	65.00	301.35	20.80	25.0	13.03	13.58	8.32	2.50	0.000	301.67	1.000	1.000	4 0
	20.80	0.83	0.00	10.0	0.00	0.00	0.00	0.00		19.25	1.000		

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ster0001.001													
10 +	2.00	300.53	20.80	25.0	5.82	8.95	9.71	2.14	0.000	300.76	0.529	1.000	11 0
	20.80	1.79	0.00	10.0	0.00	0.00	0.00	0.00		6.58	1.000		
10 +	9.00	300.54	20.80	23.0	5.59	8.64	9.23	2.25	0.001	300.80	0.560	1.000	0 0
	20.80	1.75	0.00	10.0	0.00	0.00	0.00	0.00		7.44	1.000		
10 +	57.00	300.94	20.79	25.0	12.66	13.44	20.20	1.03	0.000	301.00	0.267	1.015	0 0
	20.80	1.85	0.01	10.0	0.69	0.74 <th>0.09</th> <th>0.08</th> <th></th> <th>0.98</th> <th>1.007</th> <th></th> <th></th>	0.09	0.08		0.98	1.007		
10 +	65.00	301.35	20.80	25.0	13.03	13.58	8.32	2.50	0.000	301.67	1.000	1.000	4 0
	20.80	0.83	0.00	10.0	0.00	0.00	0.00	0.00		19.25	1.000		

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

10 +	70.00	301.56	20.12	23.0	13.16	13.55	12.62	1.59	0.000	301.69	0.717	1.446	0 0
	20.80	1.39	0.68	10.0	19.55	19.56	3.33	0.21		4.47	1.187		
10 +	112.00	301.73	20.80	25.0	9.30	10.29	10.89	1.91	0.019	301.92	0.564	1.000	0 0
	20.80	1.51	0.00	10.0	0.00	0.00	0.00	0.00		5.42	1.000		
10 +	163.00	302.00	20.80	23.0	5.36	7.56	7.91	2.63	0.026	302.35	0.691	1.000	0 0
	20.80	1.92	0.00	10.0	0.00	0.00	0.00	0.00		10.42	1.000		
10 +	200.00	302.37	20.80	25.0	5.08	7.01	6.70	3.10	0.011	302.86	0.863	1.000	0 0
	20.80	1.70	0.00	10.0	0.00	0.00	0.00	0.00		16.36	1.000		
10 +	207.00	302.68	20.80	25.0	5.27	8.39	9.27	2.24	0.000	302.94	0.540	1.000	11 0
	20.80	1.90	0.00	10.0	0.00	0.00	0.00	0.00		7.05	1.000		
10 +	214.00	302.89	20.74	25.0	13.12	14.44	16.43	1.26	0.000	302.97	0.382	1.037	0 0
	20.80	2.08	0.00	10.0	0.09	0.09	0.00	0.00		2.15	1.017		

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Krauf 2009 DATUM : 3.06.2009

Seite 38

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 30

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ 0.33/s	BREITE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEH NN+M	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
10 + 218.00	302.89	0.05	10.0	1.89	1.92	0.35	0.15	0.000	302.98	0.384	1.036	0 0
20.80	2.07	20.75	25.0	13.09	14.40	16.32	1.27	0.000	302.98	2.19	1.017	0 0
10 + 253.00	302.93	0.00	10.0	0.00	0.00	0.00	0.00	0.000	303.13	0.442	1.000	0 0
20.80	2.36	20.80	25.0	5.19	8.76	10.54	1.97	0.027	303.13	4.87	1.000	0 0
10 + 258.00	302.96	0.00	10.0	0.00	0.00	0.00	0.00	0.000	303.16	0.421	1.000	11 0
20.80	2.43	20.80	10.0	0.00	0.00	0.00	0.00	0.000	303.16	4.57	1.000	0 0
10 + 267.00	303.06	0.07	10.0	2.57	2.79	0.46	0.15	0.000	303.17	0.417	1.054	0 0
20.80	2.13	20.73	25.0	9.89	11.95	14.48	1.43	0.000	303.17	2.54	1.025	0 0
10 + 320.00	303.20	0.06	10.0	2.23	2.24	0.27	0.22	0.046	303.49	0.658	1.055	0 0
20.80	2.17	20.74	25.0	4.28	7.74	8.61	2.41	0.000	303.49	8.06	1.026	0 0
10 + 335.00	303.39	0.00	10.0	0.00	0.00	0.00	0.00	0.000	303.63	0.702	1.000	0 0
20.80	2.16	20.80	25.0	9.98	13.12	9.64	2.16	0.000	303.63	11.25	1.000	0 0
10 + 340.00	303.71	2.42	10.0	28.15	28.18	3.97	0.61	0.000	303.84	1.000	1.532	4 0
20.80	0.63	6.77	25.0	12.19	12.21	3.04	2.23	0.000	303.84	50.69	1.167	0 0
20.80	2.44	11.60	10.0	20.67	20.67	8.98	1.29	0.000	303.85	0.373	1.548	0 0
10 + 345.00	303.80	2.08	10.0	22.82	22.87	10.80	0.19	0.000	303.85	0.373	2.703	0 0
20.80	2.44	17.33	25.0	7.76	10.40	16.24	1.07	0.000	303.85	1.00	1.548	0 0
10 + 349.00	303.79	1.57	10.0	24.39	24.45	8.59	0.18	0.000	303.86	0.481	2.692	0 0
20.80	303.79	18.15	25.0	7.76	10.40	15.29	1.19	0.000	303.86	0.481	2.692	0 0

Seite 39

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

+++++++

20.80 2.32 1.08 10.0 24.35 24.35 6.86 0.16 Ster0001.001
10 + 413.00 303.89 0.52 10.0 14.27 14.29 3.49 0.15
20.80 2.67 19.57 25.0 12.72 15.05 18.07 1.08
0.71 10.0 16.55 16.57 4.45 0.16

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STATIONNAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Krauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 31

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ERGEBNISSE

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ 0.33/s	BREITE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEH NN+M	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
10 + 478.00	303.98	1.71	10.0	24.67	24.72	10.00	0.17	0.000	304.03	0.370	3.100	0 0
20.80	2.33	16.21	25.0	8.19	9.10	14.93	1.09	0.000	304.03	0.98	1.628	0 0
10 + 530.00	304.02	0.62	10.0	15.66	15.66	3.00	0.21	0.014	304.17	0.872	2.493	0 0
20.80	2.30	18.93	25.0	7.04	8.63	10.61	1.78	0.000	304.17	3.86	1.523	0 0
10 + 534.00	303.98	0.00	10.0	0.00	0.00	0.00	0.00	0.124	304.35	0.000	1.048	11 0
20.80	2.32	20.73	25.0	4.45	12.02	7.67	2.70	0.000	304.35	21.29	1.022	0 0
10 + 538.00	304.38	1.49	10.0	22.40	22.42	9.88	0.15	0.000	304.40	0.268	2.609	9 0
20.80	2.62	16.12	25.0	11.99	13.67	19.52	0.83	0.000	304.40	0.68	1.501	0 0
10 + 543.00	304.38	1.40	10.0	21.82	21.85	8.99	0.16	0.000	304.41	0.297	2.531	0 0
20.80	2.58	16.72	25.0	11.99	13.67	19.06	0.88	0.000	304.41	0.79	1.490	0 0
10 + 600.00	304.44	2.64	10.0	30.94	31.35	10.39	0.25	0.007	304.52	0.525	2.072	0 0
20.80	2.11	18.16	25.0	11.03	13.65	13.66	1.33	0.000	304.52	2.83	1.379	0 0

Seite 40

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m³/s	K-WERT mNO.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
11 + 66.00	306.49	0.19	12.0	6.61	6.62	1.02	0.19	0.015	306.63	0.532	1.137	0 0
20.80	2.20	0.00	12.0	7.35	9.55	12.51	1.65	0.00	3.03	1.063		
11 + 119.00	306.67	0.00	12.0	0.00	0.00	0.00	0.00	0.000	306.80	0.443	1.000	0 0
20.80	2.31	0.00	12.0	10.81	12.07	13.45	1.55	0.00	5.31	1.000		
11 + 172.00	306.86	0.00	12.0	0.00	0.00	0.00	0.00	0.000	306.94	0.354	1.000	0 0
20.80	2.13	0.00	12.0	0.00	0.00	0.00	0.00	0.00	2.21	1.000		
11 + 221.00	307.00	0.00	12.0	0.00	0.00	0.00	0.00	0.000	307.06	0.361	1.000	0 0
20.80	2.12	0.00	12.0	20.44	22.65	19.06	1.09	0.00	2.87	1.000		
11 + 257.00	307.10	0.00	12.0	0.00	0.00	0.00	0.00	0.106	307.43	0.620	1.000	0 0
20.80	2.15	0.00	12.0	4.84	7.83	8.22	2.53	0.00	11.97	1.000		
11 + 262.00	307.24	0.00	12.0	0.00	0.00	0.00	0.00	0.000	307.48	0.414	1.000	12 0
20.80	2.28	0.00	12.0	0.00	0.00	0.00	0.00	0.00	6.58	1.000		
11 + 266.00	307.31	0.00	12.0	0.00	0.00	0.00	0.00	0.000	307.49	0.466	1.000	0 0
20.80	2.29	0.00	12.0	6.32	9.16	10.88	1.91	0.00	5.58	1.000		
11 + 270.00	307.32	0.00	12.0	0.00	0.00	0.00	0.00	0.000	307.52	0.480	1.000	0 0
20.80	2.25	0.00	12.0	0.00	0.00	0.00	0.00	0.00	5.93	1.000		
11 + 315.00	307.59	0.00	12.0	0.00	0.00	0.00	0.00	0.000	307.73	0.423	1.000	0 0
20.80	1.63	0.00	12.0	8.08	10.95	12.58	1.65	0.00	3.63	1.000		
11 + 319.00	308.07	0.00	12.0	0.00	0.00	0.00	0.00	0.000	308.44	1.000	1.001	4 0
20.80	1.02	0.00	12.0	9.69	11.29	7.65	2.72	0.00	19.88	1.001		

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

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Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0 Ster0001.001

STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m³/s	K-WERT mNO.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
11 + 330.00	308.33	0.39	12.0	13.84	13.84	1.81	0.22	0.000	308.49	0.887	1.349	0 0
20.80	1.72	20.36	12.0	9.20	10.58	11.22	1.82	0.00	4.87	1.152		
11 + 375.00	308.53	0.67	12.0	16.91	16.92	2.79	0.24	0.001	308.71	0.858	1.725	0 0
20.80	2.04	19.60	12.0	6.49	7.98	10.08	1.60	0.33	4.43	1.285		
11 + 421.00	308.75	0.00	12.0	1.23	1.23	0.02	0.05	0.000	308.89	0.702	1.467	0 0
20.04	1.76	19.25	12.0	8.14	9.37	11.35	1.70	0.00	3.56	1.194		
11 + 483.00	309.06	0.17	12.0	7.65	7.65	0.76	0.22	0.006	309.23	0.771	1.121	0 0
19.41	1.69	19.24	12.0	11.91	13.09	10.47	1.84	0.00	7.28	1.055		
11 + 538.00	309.39	1.40	12.0	15.40	15.42	3.95	0.35	0.003	309.58	0.804	1.659	0 0
19.41	2.11	18.01	12.0	6.64	7.84	9.00	2.00	0.00	5.33	1.256		
11 + 595.00	309.75	1.68	12.0	17.35	17.52	4.19	0.40	0.000	309.98	1.000	1.871	4 0
19.41	1.85	17.67	12.0	5.21	7.45	7.86	2.25	0.00	7.53	1.326		
19.41	1.99	0.06	12.0	3.72	3.73	0.31	0.20	0.00				

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ERGEBNISSE
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PROGRAMM WSPR2009 (C.) Krauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0
VARIANTE HO.50 1st
DATEI Ster0001

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

11 + 614.00	309.95	0.00	12.0	0.00	0.00	0.00	0.00	0.065	310.32	0.815	1.000	0 0
19.41	1.99	19.41	12.0	6.41	8.57	7.19	2.70	0.00	14.78	1.000		
		0.00	12.0	0.00	0.00	0.00	0.00	0.00				

11 + 627.00	310.28	DH	19.41	25.0	5.69	14.84	9.26	2.10	0.000	310.51	0.000	1.000	11.0
19.41	2.28		0.00	12.0	0.00	0.00	0.00	0.00		13.17		1.000	
11 + 640.00	310.57		0.51	12.0	9.45	10.00	3.19	0.16	0.000	310.60	0.258	1.258	9.0
19.41	3.32		0.19	12.0	18.72	21.31	24.19	0.77		4.32	1.28	1.109	
11 + 687.00	310.59		1.83	12.0	11.38	11.40	5.93	0.31	0.000	310.66	0.464	2.538	0.0
19.41	2.34		2.23	12.0	6.35	6.99	8.14	0.27		18.76	1.59	1.487	

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STATIONNAERE WASSERSPIEGELLAGEN
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI ster0001

ERGEBNISSE

SEITE 35

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	PROUDE	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 + 738.00	310.67	2.08	12.0	12.36	12.42	6.05	0.34	0.002	310.76	0.495	2.069	0.0	0.0
19.41	2.04	16.03	25.0	6.45	7.03	10.56	1.52		2.14		1.364		
11 + 793.00	310.78	0.00	12.0	0.19	0.22	0.00	0.06	0.017	310.98	0.677	1.615	0.0	0.0
19.41	2.00	17.41	25.0	9.94	9.97	8.48	2.05		5.15		1.232		
11 + 842.00	311.05	1.33	12.0	23.79	23.79	4.35	0.31	0.000	311.27	1.000	1.871	4.0	0.0
19.41	1.76	18.07	25.0	5.41	7.48	8.45	2.14		6.24		1.333		
11 + 876.00	311.26	0.00	14.6	0.35	0.36	0.02	0.12	0.000	311.42	0.524	1.003	0.0	0.0
19.41	1.89	19.41	25.0	8.68	9.75	10.81	1.80		4.30		1.001		

Seite 45

+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)
!!! Profllabstand zum Ow ueberpruefen !!!

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	PROUDE	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 + 908.00	311.58	0.00	14.6	0.00	0.00	0.00	0.00	0.000	311.60	0.267	1.000	65.0	0.0
19.41	2.14	19.41	12.0	70.74	73.49	33.62	0.58		6.57		1.000		
11 + 939.00	311.64	0.00	14.2	0.00	0.00	0.00	0.00	0.035	311.81	0.704	1.650	0.0	0.0
19.41	2.02	17.65	12.0	7.22	13.44	9.34	1.89		4.68		1.248		
11 + 962.00	311.73	0.00	12.0	0.00	0.02	0.00	0.00	0.002	311.93	0.794	1.532	0.0	0.0
19.41	1.98	18.38	25.0	5.64	7.96	9.07	2.03		5.52		1.215		
11 + 974.00	311.89	0.00	12.0	0.00	0.00	0.00	0.00	0.000	311.98	0.456	2.014	0.0	0.0
19.41	2.37	15.94	25.0	5.65	8.35	11.28	1.41		2.14		1.345		
11 + 975.00	311.79	0.00	12.0	0.00	0.00	0.00	0.00	0.103	312.09	0.000	1.063	11.0	0.0
19.41	2.29	19.36	25.0	6.13	14.03	8.05	2.40		19.39		1.030		
11 + 976.00	312.04	0.60	12.0	11.09	11.26	2.96	0.20	0.000	312.11	0.469	1.656	9.0	0.0
19.41	2.45	18.14	25.0	9.73	12.11	15.21	1.19		1.68		1.258		

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STATIONNAERE WASSERSPIEGELLAGEN
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI ster0001

ERGEBNISSE

SEITE 36

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	PROUDE	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	312.02	0.17	12.0	8.34	8.51	0.99	0.17	0.005	312.13	0.697	1.500	0.0	0.0
19.41	2.28	18.71	25.0	9.73	12.03	12.51	1.50		3.39		1.208		
12 + 31.00	312.17	0.19	12.0	9.85	9.85	1.21	0.16	0.000	312.29	0.695	1.633	0.0	0.0
19.41	1.89	18.45	25.0	7.81	8.91	11.58	1.59						

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12 + 453.00 314.26 0.66 12.0 4.49 4.60 2.22 0.30
 18.58 25.0 7.01 8.06 13.25 1.40 0.000 314.35 0.410 1.324
 19.41 2.36 0.16 12.0 2.68 2.74 0.78 0.21 1.62 1.135

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg + 1.00 bis 0 + 23380.00 m
 ZUSTAND Station 0
 VARIANTE HQ 50 1st
 DATEI ster0001

SEITE 38

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STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ /s	BREITE m	UMFANG m	FLAECH m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
12 + 519.00	314.44	1.11	10.0	13.90	13.91	3.55	0.31	0.003	314.60	0.783	1.557	0	0
19.41	1.87	0.00	10.0	10.01	10.71	9.94	1.84	0.003	314.60	6.00	1.223	0	0
12 + 535.00	314.51	0.00	10.0	0.00	0.00	0.00	0.00	0.032	314.77	0.737	1.000	0	0
19.41	1.80	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.77	10.03	1.000	0	0
12 + 542.00	314.50	0.00	10.0	0.00	0.00	0.00	0.00	0.009	314.86	0.712	1.000	31	5
19.41	1.72	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.86	12.42	1.000	0	0
12 + 549.00	314.62	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.93	0.617	1.000	0	0
19.41	1.97	0.00	10.0	4.92	7.48	7.92	2.45	0.000	314.93	8.90	1.000	0	0
12 + 590.00	315.05	0.65	10.0	13.13	13.15	3.41	0.19	0.000	315.15	0.558	1.649	0	0
19.41	2.14	0.29	10.0	4.42	4.46	1.37	0.21	0.000	315.15	2.21	1.260	0	0
12 + 629.00	315.22	0.00	10.0	0.00	0.00	0.00	0.00	0.145	315.62	0.603	1.000	0	0
19.41	2.44	0.00	10.0	3.11	7.67	6.90	2.81	0.000	315.62	14.55	1.000	0	0

Seite 49

12 + 632.00 315.27 19.41 25.0 3.11 7.76 7.05 2.75 0.000 315.67 0.585 1.000 11 0
 19.41 2.49 0.00 10.0 0.00 0.00 0.00 0.00 0.000 315.67 13.81 1.000 0 0

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg + 1.00 bis 0 + 23380.00 m
 ZUSTAND Station 0
 VARIANTE HQ 50 1st
 DATEI ster0001

SEITE 39

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STATION ABFLUSS	WSPLAGE/H NN+M/m	ABFLUSS m ³ /s	K-WERT m ³ /s	BREITE m	UMFANG m	FLAECH m ²	GESCHW m/s	HZV m	E-HOEHE NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
12 + 646.00	315.77	3.23	10.0	22.89	22.89	11.14	0.29	0.000	315.85	0.487	2.531	0	0
19.41	2.48	15.70	25.0	5.94	7.71	10.75	1.46	0.000	315.85	2.19	1.492	0	0
12 + 669.00	315.81	3.90	10.0	24.57	24.59	10.63	0.37	0.001	315.93	0.599	2.453	0	0
19.41	2.45	15.51	25.0	4.24	8.09	9.01	1.72	0.000	315.93	4.11	1.467	0	0
12 + 673.00	315.88	0.00	10.0	0.00	0.00	0.00	0.00	0.000	316.00	0.000	1.014	11	0
19.41	2.41	19.36	25.0	27.13	58.02	12.85	1.51	0.000	316.00	27.08	1.006	0	0

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STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	FROUDE	ALPHA	KZW	KZD	
ABFLUSS	NN+M/m	m ³ /s	m ³ 0.33/s	m	m	m ²	m/s	m	NN+M	IE o/oo	ALPHAS			
12 + 677.00	315.99	2.80	10.0	24.97	25.01	11.57	0.24							
19.41	2.46	16.61	25.0	7.30	9.61	13.24	1.25	0.000	316.06	0.424	2.212	9	0	
		0.00	10.0	0.00	0.00	0.00	0.00			1.64	1.416			
12 + 680.00	315.99	2.10	10.0	23.36	23.41	8.95	0.23							
19.41	2.40	17.31	25.0	7.24	9.62	12.85	1.35	0.001	316.07	0.482	2.051	0	0	
		0.00	10.0	0.00	0.00	0.00	0.00			1.97	1.378			
12 + 710.00	316.05	2.16	10.0	22.54	22.55	8.84	0.24							
19.41	2.36	17.25	25.0	7.18	9.52	12.56	1.37	0.000	316.13	0.488	2.046	0	0	
		0.00	10.0	0.00	0.00	0.00	0.00			2.09	1.376			
12 + 717.00	316.02	0.00	10.0	0.00	0.00	0.00	0.00							
19.41	2.31	19.41	25.0	4.14	12.20	8.40	2.31	0.100	316.30	0.000	1.000	11	0	
		0.00	10.0	0.00	0.00	0.00	0.00			14.06	1.000			
12 + 724.00	316.32	2.65	10.0	22.80	22.82	14.14	0.19							
19.41	2.55	16.55	25.0	9.72	10.79	18.16	0.91	0.000	316.36	0.285	2.193	9	0	
		0.21	10.0	5.37	5.41	1.73	0.12			0.66	1.410			
12 + 773.00	316.35	2.63	10.0	28.45	28.53	13.32	0.20							
19.41	2.41	15.46	25.0	7.31	8.01	13.39	1.15	0.000	316.40	0.397	3.072	0	0	
		1.32	10.0	11.62	11.70	6.17	0.21			1.07	1.628			
12 + 824.00	316.41	0.28	10.0	18.87	18.87	2.41	0.11							
19.41	2.00	17.77	25.0	11.58	12.18	14.18	1.25	0.004	316.49	0.542	1.869	0	0	
		1.36	10.0	13.60	13.62	5.49	0.25			2.05	1.328			
12 + 875.00	316.51	0.04	10.0	7.96	7.98	0.46	0.09							
19.41	1.68	18.52	25.0	8.90	9.37	10.64	1.74	0.012	316.66	0.764	1.555	0	0	
		0.85	10.0	11.34	11.35	3.14	0.27			4.09	1.226			

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STATIONNAERE WASSERSPIEGELLAGEN
PROGRAMM WSPR2009 (C.) Krauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI Ster0001
SEITE 40

ERGEBNISSE
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Ster0001.001														
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	FROUDE	ALPHA	KZW	KZD	
ABFLUSS	NN+M/m	m ³ /s	m ³ 0.33/s	m	m	m ²	m/s	m	NN+M	IE o/oo	ALPHAS			
12 + 902.00	316.65	0.00	10.0	0.00	0.00	0.00	0.00							
19.41	1.66	19.40	25.0	12.05	13.11	10.38	1.87	0.013	316.83	0.656	1.008	0	0	
		0.01	10.0	0.57	0.59	0.05	0.16			7.62	1.004			
12 + 905.00	316.78	0.00	10.0	0.00	0.00	0.00	0.00							
19.41	1.82	19.41	25.0	13.71	21.61	18.25	1.06	0.000	316.84	0.294	1.000	12	0	
		0.00	10.0	0.00	0.00	0.00	0.00			2.27	1.000			
12 + 908.00	316.70	0.00	10.0	0.00	0.00	0.00	0.00							
19.41	1.67	19.40	25.0	9.82	9.91	9.91	1.96	0.040	316.89	0.641	1.013	0	0	
		0.01	10.0	0.67	0.71	0.08	0.19			7.09	1.006			
12 + 916.00	316.71	0.00	10.0	0.00	0.00	0.00	0.00							
19.41	1.64	19.39	25.0	6.93	8.37	8.80	2.20	0.003	316.96	0.648	1.016	0	0	
		0.02	10.0	0.63	0.69	0.08	0.21			7.25	1.008			
12 + 974.00	317.13	0.00	10.0	0.00	0.00	0.00	0.00							
19.41	1.83	19.41	25.0	7.56	9.11	16.24	1.89	0.000	317.32	0.520	1.000	0	0	
		0.00	10.0	0.00	0.00	0.00	0.00			4.92	1.000			
13 + 29.00	317.42	0.00	10.0	0.00	0.00	0.00	0.00							
19.41	1.87	19.26	25.0	7.14	9.09	9.17	2.10	0.000	317.64	0.879	1.178	0	0	
		0.15	10.0	10.27	10.27	0.90	0.16			6.98	1.082			
13 + 86.00	317.81	0.00	10.0	0.00	0.00	0.00	0.00							
19.41	1.70	19.37	25.0	8.76	9.80	10.65	1.82	0.000	317.98	0.680	1.068	0	0	
		0.04	10.0	6.42	6.42	0.39	0.11			4.74	1.033			
13 + 113.00	317.94	0.00	10.0	0.00	0.00	0.00	0.00							
19.41	1.72	19.41	25.0	8.80	9.85	10.77	1.80	0.000	318.10	0.524	1.000	0	0	
		0.00	10.0	0.12	0.12	0.00	0.04			4.61	1.000			
13 + 118.00	317.76	0.00	10.0	0.00	0.00	0.00	0.00							
19.41	1.52	19.41	25.0	4.80	6.76	6.33	3.07	0.082	318.24	0.853	1.000	31	5	
		0.00	10.0	0.00	0.00	0.00	0.00			16.45	1.000			
13 + 123.00	318.15	0.00	10.0	0.00	0.00	0.00	0.00							
19.41	1.86	19.41	25.0	10.19	11.03	11.89	1.63	0.000	318.29	0.483	1.000	0	0	
		0.00	10.0	0.00	0.00	0.00	0.00			3.86	1.000			
13 + 176.00	318.39	0.00	10.0	0.00	0.00	0.00	0.00							
19.41	1.99	16.98	25.0	14.16	14.72	14.09	1.20	0.000	318.45	0.442	1.741	0	0	
		2.43	10.0	19.67	19.68	8.55	0.28			2.46	1.271			

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 3.06.2009

PROJEKT k1-strieg
ZUSTAND station 0
VARIANTE HQ 50 1st
DATEI ster0001

SEITE 41

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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-HOEH NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
13 + 228.00	318.54	0.04	10.0	8.25	8.25	0.41	0.10	0.032	318.70	0.840	1.166	0	0
	19.41	1.46	10.0	5.73	5.73	0.58	0.17			5.93	1.077	0	0
13 + 248.00	318.92	1.54	10.0	19.48	19.48	4.97	0.31	0.000	319.10	1.000	2.171	4	0
	19.41	1.84	10.0	13.95	13.96	1.20	0.15			5.94	1.425	0	0

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

13 + 251.00	319.07	10.02	10.0	23.60	23.62	7.56	1.33	0.000	319.21	1.000	1.288	4	0
	19.41	0.41	10.0	10.93	10.97	3.70	1.15			80.24	1.082	0	0
13 + 254.00	319.16	4.65	10.0	23.63	23.94	16.48	0.28	0.000	319.21	0.373	2.852	0	0
	19.41	1.96	10.0	14.04	14.05	4.33	0.17			1.31	1.547	0	0
13 + 258.00	319.17	3.92	10.0	28.28	28.49	16.06	0.24	0.000	319.21	0.350	3.435	0	0
	19.41	1.80	10.0	25.0	23.56	12.67	0.24			1.28	1.645	0	0
13 + 305.00	319.29	0.00	10.0	0.00	0.00	0.00	0.00	0.033	319.40	0.633	1.326	0	0
	19.41	1.60	10.0	16.20	16.62	2.82	0.30			5.46	1.135	0	0
13 + 327.00	319.34	0.00	10.0	0.00	0.00	0.00	0.00	0.171	319.83	0.912	1.000	0	0
	18.53	1.34	10.0	5.00	6.54	5.95	0.00			1.62	1.000	0	0

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 3.06.2009

PROJEKT k1-strieg
ZUSTAND station 0
VARIANTE HQ 50 1st
DATEI ster0001

SEITE 42

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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-HOEH NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
13 + 331.00	319.44	0.00	10.0	0.00	0.00	0.00	0.00	0.000	319.91	0.636	1.000	12	0
	18.53	1.61	10.0	2.64	7.98	6.11	3.03			20.99	1.000	0	0
13 + 335.00	319.82	0.00	10.0	0.00	0.00	0.00	0.00	0.000	319.95	0.610	1.331	0	0
	18.53	1.99	10.0	8.89	9.83	11.32	1.60			3.38	1.143	0	0
13 + 341.00	319.88	0.00	10.0	0.00	0.00	0.00	0.00	0.000	319.96	0.436	1.682	0	0
	18.53	2.04	10.0	9.00	9.59	12.86	1.32			1.87	1.260	0	0

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

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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	m3/0.33/s	m	m	m2	m/s	m	NN+M	IE o/oo	ALPHAS	KZW	KZD
13 + 504.00	320.61	0.28	10.0	4.41	4.46	1.14	0.24	0.000	320.75	0.693	2.123	0	0
18.53	1.94	16.59	25.0	6.80	7.40	9.41	1.76	0.000	320.75	3.61	1.403	0	0
13 + 515.00	320.72	0.08	10.0	7.53	7.54	0.55	0.15	0.000	320.96	1.000	1.752	4	0
18.53	2.21	17.48	25.0	4.50	7.29	7.90	2.21	0.000	320.96	7.05	1.296	0	0
13 + 517.00	320.84	0.18	10.0	3.70	3.71	0.41	0.44	0.000	321.03	1.000	1.507	4	0
18.53	0.56	10.07	25.0	12.02	12.05	4.21	2.39	0.000	321.03	37.12	1.160	0	0
13 + 519.00	320.97	0.47	10.0	9.26	9.27	2.49	0.19	0.000	321.03	0.418	2.471	0	0
18.53	2.52	13.95	25.0	8.00	24.11	11.49	0.31	0.000	321.03	2.06	1.458	0	0
13 + 522.00	320.99	0.61	10.0	23.39	23.50	5.34	0.11	0.000	321.03	0.313	2.939	0	0
18.53	2.61	11.77	25.0	5.56	7.43	11.44	1.03	0.000	321.03	0.95	1.543	0	0
13 + 566.00	321.04	3.81	10.0	20.75	20.83	15.16	0.25	0.000	321.07	0.252	2.691	0	0
18.53	2.30	11.26	25.0	9.66	10.89	12.93	0.87	0.000	321.07	0.96	1.469	0	0
Ster0001.001													
Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
+++++++													
13 + 517.00	320.84	0.18	10.0	3.70	3.71	0.41	0.44	0.000	321.03	1.000	1.507	4	0
18.53	0.56	10.07	25.0	12.02	12.05	4.21	2.39	0.000	321.03	37.12	1.160	0	0
13 + 519.00	320.97	0.47	10.0	9.26	9.27	2.49	0.19	0.000	321.03	0.418	2.471	0	0
18.53	2.52	13.95	25.0	8.00	24.11	11.49	0.31	0.000	321.03	2.06	1.458	0	0
13 + 522.00	320.99	0.61	10.0	23.39	23.50	5.34	0.11	0.000	321.03	0.313	2.939	0	0
18.53	2.61	11.77	25.0	5.56	7.43	11.44	1.03	0.000	321.03	0.95	1.543	0	0
13 + 566.00	321.04	3.81	10.0	20.75	20.83	15.16	0.25	0.000	321.07	0.252	2.691	0	0
18.53	2.30	11.26	25.0	9.66	10.89	12.93	0.87	0.000	321.07	0.96	1.469	0	0
Ster0001.001													
Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
+++++++													
13 + 624.00	321.10	0.14	10.0	1.90	2.04	0.69	0.20	0.009	321.15	0.387	1.546	0	0
18.53	1.80	17.17	25.0	13.83	14.53	15.82	1.09	0.009	321.15	1.68	1.214	0	0
13 + 624.00	321.10	0.14	10.0	1.90	2.04	0.69	0.20	0.009	321.15	0.387	1.546	0	0
18.53	1.80	17.17	25.0	13.83	14.53	15.82	1.09	0.009	321.15	1.68	1.214	0	0
13 + 654.00	320.99	0.00	10.0	0.00	0.00	0.00	0.00	0.000	321.58	1.000	1.000	4	0
18.53	1.34	18.53	25.0	4.66	6.68	5.46	3.39	0.000	321.58	24.05	1.000	0	0
Ster0001.001													
Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
+++++++													
13 + 658.00	321.46	3.87	10.0	16.70	16.75	9.19	0.42	0.000	321.60	0.607	2.462	0	0
18.53	1.77	14.48	25.0	4.83	6.12	7.83	1.85	0.000	321.60	3.94	1.464	0	0
13 + 661.00	321.47	3.81	10.0	16.64	16.69	9.00	0.42	0.000	321.61	0.618	2.455	0	0
18.53	1.76	14.54	25.0	4.83	6.12	7.77	1.87	0.000	321.61	4.07	1.463	0	0
13 + 716.00	321.71	2.19	10.0	16.26	16.27	6.01	0.36	0.002	321.86	0.700	1.931	0	0
18.53	1.87	16.34	25.0	7.84	8.48	8.92	1.83	0.000	321.86	5.02	1.336	0	0
13 + 769.00	322.28	1.08	10.0	23.81	23.83	4.54	0.24	0.000	322.46	1.000	2.541	4	0
18.53	1.76	16.75	25.0	6.17	6.96	8.29	2.02	0.000	322.46	5.18	1.535	0	0
Ster0001.001													
Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
+++++++													
13 + 821.00	322.57	0.41	10.0	5.98	6.01	1.42	0.29	0.017	322.78	0.798	1.297	0	0
18.53	1.77	18.11	25.0	5.91	7.72	8.78	2.06	0.017	322.78	5.73	1.129	0	0
13 + 835.00	322.76	2.53	10.0	25.28	25.29	10.23	0.25	0.000	322.83	0.537	3.055	0	0
18.53	2.11	14.97	25.0	7.14	8.97	11.33	1.32	0.000	322.83	2.05	1.630	0	0
13 + 838.00	323.04	11.99	10.0	28.35	28.35	9.82	1.22	0.000	323.20	1.000	1.408	4	0
18.53	0.48	6.53	25.0	10.57	10.65	2.66	2.46	0.000	323.20	61.32	1.118	0	0
Ster0001.001													
Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
+++++++													

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

Seite 56

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 3.06.2009

PROJEKT K1-strieg
 ZUSTAND Station 0
 VARIANTE HQ 50 1st
 DATEI Ster0001

SEITE 44

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ 0.33/s	=====			GESCHW m/s	HZV m	E-HOEH NN+m	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
				BREITE m	UMFANG m	FLAECHE m ²						
13 + 841.00	323.15	4.34	10.0	28.30	28.31	16.43	0.26	0.000	323.21	0.408	2.730	0 0
18.53	2.61	14.11	10.0	8.33	8.99	11.85	0.09		1.44	1.529		
13 + 844.00	323.15	4.01	10.0	27.39	27.41	14.22	0.28	0.000	323.22	0.453	2.572	0 0
18.53	2.48	14.51	10.0	6.33	8.42	11.07	1.31		1.91	1.494		
13 + 897.00	323.25	3.38	10.0	29.26	29.26	14.06	0.24	0.000	323.31	0.393	2.323	0 0
18.53	1.90	15.15	10.0	10.02	10.76	13.38	0.00		1.53	1.436		
13 + 943.00	323.32	0.11	10.0	10.48	10.48	1.23 *	0.09	0.000	323.37	0.370	1.590	0 0
18.53	1.85	16.96	10.0	13.53	14.47	16.94	1.00		1.30	1.229		
13 + 997.00	323.52	0.00	10.0	6.13	6.13	0.07	0.04	0.000	323.59	0.478	1.756	0 0
18.53	1.86	9.88	18.0	6.19	7.07	6.77	1.46		6.97	1.225		
14 + 47.00	323.84	0.00	10.0	0.00	0.00	0.00	0.00	0.007	323.99	0.686	1.957	0 0
18.53	2.41	15.16	18.0	4.19	6.84	8.05	1.88		8.83	1.327		
14 + 78.00	324.15	1.03	10.0	22.71	22.71	3.29	0.31	0.000	324.35	1.000	1.626	4 0
18.53	2.12	17.49	18.0	5.42	8.36	8.56	2.04		12.96	1.249		
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)												
14 + 79.00	324.43	16.20	10.0	23.87	23.87	9.81	1.65	0.000	324.56	1.000	1.078	4 0
18.53	0.39	1.98	18.0	9.26	9.30	1.34	1.48		89.28	1.033		
Ster0001.001												
14 + 80.00	324.49	3.99	10.0	21.63	21.63	9.81	0.41	0.000	324.57	0.552	2.060	0 0
18.53	2.43	14.37	10.0	5.42	8.58	10.28	1.40		4.74	1.352		
14 + 92.00	324.54	2.13	10.0	20.73	20.75	5.94	0.36	0.002	324.65	0.680	1.938	0 0
18.53	2.68	16.09	18.0	6.17	9.69	10.35	1.55		6.83	1.335		
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STATIONAERE WASSERSPIEGELLAGEN												
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009												
PROJEKT K1-strieg												
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m												
VARIANTE HQ 50 1st												
DATEI Ster0001												
=====												
ERGEBNISSE												
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)												

SEITE 45

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ 0.33/s	=====			GESCHW m/s	HZV m	E-HOEH NN+m	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
				BREITE m	UMFANG m	FLAECHE m ²						
14 + 106.00	324.80	1.30	10.0	13.08	13.11	5.74	0.23	0.000	324.83	0.305	2.181	0 0
18.53	2.49	13.94	18.0	8.56	9.79	14.92	0.93		1.53	1.377		
14 + 170.00	324.90	1.05	10.0	4.65	4.83	3.04	0.35	0.002	324.95	0.410	1.994	0 0
18.53	2.46	15.64	18.0	8.34	9.34	14.03	1.12		2.23	1.347		
14 + 258.00	325.09	0.15	10.0	6.79	6.80	1.07	0.14	0.001	325.15	0.380	1.494	0 0
18.53	2.02	16.96	18.0	11.19	11.38	5.05	1.09		2.34	1.193		
14 + 369.00	325.61	0.10	10.0	4.56	4.56	0.50	0.21	0.019	325.76	0.787	1.422	0 0
18.53	1.78	17.81	18.0	8.28	8.93	10.00	1.78		8.41	1.176		
Ster0001.001												

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	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
14 + 390.00	325.79	18.53	18.0	0.00	0.00	0.00	0.00	0.015	325.99	0.574	1.000	0	0
	18.53	1.92	10.0	0.00	0.00	0.00	2.01	0.00	11.43	1.000	1.000	0	0
14 + 397.00	325.83	18.53	18.0	0.00	0.00	0.00	0.00	0.045	326.28	0.000	1.000	11	0
	18.53	1.95	10.0	0.00	0.00	0.00	2.95	0.00	56.38	1.000	1.000	0	0
14 + 404.00	326.41	18.53	18.0	0.00	0.00	0.00	0.17	0.000	326.50	0.588	1.409	9	0
	18.53	2.27	10.0	0.00	0.00	0.00	1.31	0.000	3.47	1.175	1.175	0	0
14 + 597.00	327.23	18.53	18.0	0.00	0.00	0.00	0.00	0.000	327.33	0.534	1.322	0	0
	18.53	1.68	10.0	0.00	0.00	0.00	1.38	0.26	5.16	1.134	1.134	0	0
14 + 658.00	327.67	18.53	18.0	0.00	0.00	0.00	0.00	0.017	327.82	0.570	1.000	0	0
	18.53	1.46	10.0	0.00	0.00	0.00	1.75	0.00	10.64	1.000	1.000	0	0
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STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009													
PROJEKT Kl-strieg Station 0 + 1.00 bis 0 + 23380.00 m													
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m													
VARIANTE HQ 50 1st													
DATEI Ster0001													
ERGEBNISSE													
SEITE 46													

+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) Seite 59

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	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
14 + 869.00	329.93	18.53	18.0	0.00	0.00	0.00	0.36	0.001	330.13	0.855	1.358	0	0
	18.53	1.47	10.0	0.05	2.21	0.21	2.03	0.22	11.85	1.150	1.150	0	0
14 + 934.00	330.69	18.53	18.0	0.00	0.00	0.00	0.72	0.000	330.81	0.546	1.809	0	0
	18.53	1.54	10.0	0.18	1.77	0.47	1.85	0.39	9.00	1.247	1.247	0	0
15 + 8.00	331.32	18.53	18.0	0.00	0.00	0.00	0.47	0.000	331.42	0.638	1.957	0	0
	18.53	1.39	10.0	0.23	7.13	0.98	1.58	0.23	7.62	1.320	1.320	0	0
15 + 39.00	331.54	18.53	18.0	0.00	0.00	0.00	0.34	0.000	331.63	0.523	1.352	0	0
	18.53	1.49	10.0	0.60	6.32	1.83	1.39	0.33	5.72	1.141	1.141	0	0
15 + 88.00	331.82	18.53	18.0	0.00	0.00	0.00	0.08	0.000	331.93	0.628	1.778	0	0
	18.53	1.59	10.0	16.05	8.35	6.61	1.56	0.37	6.51	1.281	1.281	0	0
15 + 114.50	332.00	18.53	18.0	0.00	0.00	0.00	0.21	0.000	332.06	0.496	2.180	0	0
	18.53	1.65	10.0	2.85	19.67	8.54	1.26	0.33	3.39	1.393	1.393	0	0
15 + 147.50	332.12	18.53	18.0	0.00	0.00	0.00	0.50	0.000	332.17	0.375	1.938	0	0
	18.53	1.65	10.0	5.29	12.66	10.52	1.20	0.28	3.24	1.292	1.292	0	0
15 + 213.50	332.36	18.53	18.0	0.00	0.00	0.00	0.29	0.006	332.46	0.592	1.692	0	0
	18.53	1.64	10.0	16.69	9.97	11.07	1.43	0.31	5.50	1.260	1.260	0	0

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STATIONAERE WASSERSPIEGELLAGEN PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT Kl-strieg Station 0 + 1.00 bis 0 + 23380.00 m
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 50 1st
 DATEI Ster0001

ERGEBNISSE
 SEITE 47

STATION WSPLAGE/H ABFLUSS K-WERT BREITE UMFANG FLAECHE GESCHW HZV E-HOEH FROUDE ALPHA KZW KZD
 Seite 60

ABFLUSS	NN+H/m	m³/s	m³/0.33/s	m	ster0001.001	m/s	m	NN+H	IE o/oo	ALPHAS
15 + 240.00	332.51	0.13	10.0	4.05	0.69	0.19	0.000	332.58	0.492	1.616
18.53	1.70	16.96	18.0	11.08	13.99	1.21	0.000	332.58	3.77	1.237
15 + 326.00	332.84	0.13	10.0	1.76	0.48	0.27	0.003	332.93	0.527	1.346
18.53	1.69	17.84	18.0	9.50	12.92	1.23	0.000	332.93	4.43	1.145
15 + 363.00	333.01	4.09	10.0	10.06	10.09	0.57	0.000	333.11	0.517	1.684
18.53	1.72	14.20	18.0	6.70	7.47	1.51	0.000	333.11	5.13	1.237
15 + 419.00	333.33	0.00	10.0	3.11	3.11	0.06	0.014	333.50	0.734	1.344
18.53	1.83	17.72	18.0	9.17	9.19	0.36	0.000	333.50	8.54	1.143
15 + 467.00	333.73	5.48	10.0	23.13	23.13	0.41	0.000	333.79	0.390	2.149
18.53	2.04	12.08	18.0	5.68	6.99	1.28	0.000	333.79	3.36	1.346
15 + 510.50	333.85	1.89	10.0	8.01	8.17	0.34	0.000	333.91	0.346	1.805
18.53	2.03	15.31	18.0	7.58	8.05	1.13	0.000	333.91	1.99	1.282
15 + 566.50	334.00	0.81	10.0	9.49	9.57	0.32	0.004	334.13	0.674	2.170
18.53	1.76	15.49	18.0	6.00	6.48	1.71	0.000	334.13	5.82	1.397
15 + 618.00	334.35	0.08	10.0	2.63	2.64	0.24	0.005	334.51	0.795	1.723
18.53	1.82	16.88	18.0	6.11	7.66	1.89	0.000	334.51	8.98	1.274
15 + 649.00	334.64	5.37	10.0	23.82	23.93	0.30	0.000	334.67	0.257	2.497
18.53	1.94	10.06	18.0	6.01	6.41	0.94	0.000	334.67	1.35	1.407
15 + 688.00	334.70	0.26	10.0	22.87	22.87	0.11	0.003	334.75	0.463	2.026
18.53	1.78	15.41	18.0	11.18	12.13	1.06	0.000	334.75	2.71	1.355
15 + 747.00	334.91	0.35	10.0	4.22	4.26	0.32	0.005	335.02	0.628	2.122
18.53	1.59	14.78	18.0	7.31	7.87	1.60	0.000	335.02	6.38	1.372

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Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0 ster0001.001
 STATIONNAERE WASSERSPIEGELLAGEN
 PROGRAMM WSPR2009 (C.) Krauf 2009 DATUM : 3.06.2009
 PROJEKT K1-strieg
 ZUSTAND Station 0
 VARIANTE HQ 50 1st
 DATET Ster0001

ERGEBNISSE

SEITE 48

STATION ABFLUSS	WSPERGE/H NN+H/m	ABFLUSS m³/s	K-WERT m³/0.33/s	BREITTE m	UMFANG m	FLAECHE m²	GESCHW m/s	HZV m	E-HOEHE NN+H	FROUDE IE o/oo	ALPHA	KZW	KZD
15 + 830.00	335.50	2.26	10.0	5.74	5.85	3.56	0.64	0.000	335.61	0.573	2.249	0	0
18.53	1.61	10.92	10.0	4.00	4.64	5.86	1.86	0.000	335.61	7.83	1.358	0	0
15 + 884.00	335.84	1.86	10.0	12.13	12.19	6.60	0.28	0.000	335.87	0.256	2.043	0	0
18.53	1.87	9.22	10.0	6.00	6.40	9.35	0.38	0.000	335.87	1.81	1.293	0	0
15 + 928.00	335.94	0.06	10.0	1.05	1.18	0.28	0.21	0.002	335.98	0.308	1.510	0	0
18.53	1.39	12.56	18.0	12.10	12.35	12.46	1.01	0.000	335.98	3.10	1.168	0	0
15 + 988.00	336.24	0.05	10.0	2.17	2.18	0.24	0.21	0.003	336.33	0.561	1.917	0	0
18.53	1.41	12.31	18.0	8.36	8.83	7.99	1.54	0.000	336.33	8.36	1.286	0	0
16 + 43.00	336.61	2.57	10.0	6.42	6.60	5.20	0.49	0.000	336.65	0.355	2.071	0	0
18.53	1.52	10.28	18.0	7.03	7.03	8.61	1.19	0.000	337.17	0.350	2.194	0	0
16 + 99.00	336.88	0.13	10.0	1.83	1.87	0.40	0.32	0.002	336.97	0.615	2.490	0	0
18.53	1.53	11.26	18.0	5.26	6.03	6.56	1.71	0.000	336.97	8.11	1.421	0	0
16 + 135.00	337.13	1.61	10.0	12.40	12.43	5.40	0.30	0.000	337.17	0.350	2.194	0	0
18.53	1.62	11.66	18.0	7.38	8.09	10.48	1.11	0.000	337.17	2.71	1.354	0	0
16 + 220.00	337.55	0.24	10.0	6.22	6.23	0.92	0.26	0.024	337.68	0.728	1.488	0	0
18.53	1.60	17.42	18.0	10.43	11.05	10.66	1.63	0.000	337.68	8.64	1.196	0	0

Seite 62

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16 + 303.50	338.18	0.31	10.0	10.53	10.54	1.58	0.20	0.000	338.24	0.456	2.048	0
18.53	1.80	11.32	18.0	6.09	7.48	8.38	1.35	0.49	4.84	1.317		
16 + 359.00	338.42	1.60	10.0	16.06	16.12	6.26	0.26	0.000	338.44	0.272	2.043	0
18.53	1.75	7.96	18.0	5.57	6.39	7.96	1.00	0.39	2.31	1.284		
16 + 429.00	338.61	0.00	10.0	0.50	0.51	0.02	0.20	0.000	338.83	1.000	2.340	4
18.53	1.41	12.56	18.0	4.59	5.78	5.13	2.45	0.69	21.72	1.402		
+++++++ Engstelle mit Flüsswechsel, Energieminimum > EH(UW) !!! Profiltabstand zum Ow ueberpruefen !!!												
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STATIONAERE WASSERSPIEGELLAGEN												
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009												
PROJEKT K1-strieg ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m VARIANTE HQ 50 1st DATEI ster0001												
===== ERGEBNISSE ===== SEITE 49												
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	PROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
16 + 514.00	339.14	0.01	10.0	0.57	0.61	0.06	0.14	0.000	339.17	0.296	1.470	0
18.53	1.31	8.96	18.0	10.09	10.81	8.91	1.01	0.48	4.04	1.142		
16 + 546.50	339.33	0.82	10.0	6.99	7.05	1.84	0.44	0.005	339.43	0.625	2.257	0
18.53	1.36	8.51	18.0	3.71	4.32	4.35	1.96	0.68	11.76	1.336		
16 + 583.00	339.68	0.00	10.0	0.13	0.13	0.00	0.04	0.000	339.72	0.306	1.499	0
18.53	1.58	8.58	18.0	5.79	6.57	7.10	1.21	0.57	4.06	1.148		
16 + 618.00	339.80	0.00	10.0	0.27	0.28	0.01	0.09	0.000	339.84	0.370	1.405	0
18.53	1.56	9.95	18.0	20.75	20.80	17.52	1.57	1.15				
===== ERGEBNISSE ===== SEITE 63												

18.53	1.55	7.78	17.0	25.84	25.84	13.78	0.56		2.55	1.129		
ster0001.001												
16 + 696.50	340.06	1.89	17.0	5.62	5.66	2.62	0.72	0.002	340.14	0.536	1.603	0
18.53	1.48	9.14	17.0	4.81	5.20	5.59	1.64	0.72	5.03	1.179		
16 + 757.50	340.35	1.68	17.0	10.37	10.38	3.20	0.52	0.000	340.44	0.550	1.619	0
18.53	1.51	11.15	17.0	6.39	6.70	7.17	1.56	0.71	4.57	1.195		
16 + 807.00	340.56	4.54	17.0	27.35	27.37	14.16	0.32	0.000	340.58	0.193	1.406	0
18.53	1.52	5.47	17.0	5.76	6.79	7.77	0.70	0.36	0.86	1.114		
16 + 892.50	340.69	2.20	17.0	17.41	17.44	3.72	0.59	0.000	340.90	1.000	1.691	4
18.53	1.56	15.73	17.0	6.16	6.69	7.07	2.22	0.68	9.50	1.248		
+++++++ Engstelle mit Flüsswechsel, Energieminimum > EH(UW) !!! Profiltabstand zum Ow ueberpruefen !!!												
16 + 962.00	341.04	1.07	17.0	24.82	24.82	4.25	0.25	0.000	341.06	0.351	1.450	0
18.53	1.84	10.35	17.0	14.61	15.75	11.86	0.87	0.48	2.30	1.148		
17 + 18.50	341.21	0.00	17.0	0.00	0.00	0.00	0.00	0.042	341.38	0.852	1.424	0
18.53	1.49	17.17	17.0	8.68	9.54	9.26	1.85	0.44	7.40	1.167		
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STATIONAERE WASSERSPIEGELLAGEN												
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009												
PROJEKT K1-strieg ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m VARIANTE HQ 50 1st DATEI ster0001												
===== ERGEBNISSE ===== SEITE 50												
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	PROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
		4.30	17.0	20.66	20.66	8.27	0.52					
Seite 64												

		Ster0001.001											
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-HOEHIE NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
17 +	86.00	341.69	8.05	22.0	5.38	6.01	6.29	1.28	0.000	341.74	0.465	1.929	0 0
	16.82	1.34	4.46	17.0	31.37	31.37	9.99	0.45			3.18	1.261	
17 +	209.50	342.40	0.01	17.0	0.80	0.81	0.03	0.25	0.000	342.59	1.000	1.478	4 0
	16.82	1.13	11.96	22.0	7.52	7.95	5.37	2.23			17.31	1.161	
+++++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW) !!! ProfiIabstand zum Ow ueberpruefen !!!												
17 +	284.00	342.97	0.89	17.0	16.00	16.00	2.43	0.37	0.000	343.02	0.564	1.799	0 0
	13.21	1.13	6.69	17.0	5.18	5.73	4.18	0.58			5.73	1.226	
17 +	424.00	344.12	1.90	17.0	21.86	21.86	3.33	0.57	0.000	344.24	1.000	2.229	4 0
	13.21	1.06	6.49	22.0	3.95	4.97	3.14	2.07			13.94	1.356	
+++++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW) !!! ProfiIabstand zum Ow ueberpruefen !!!												
17 +	466.00	344.75	1.78	17.0	10.35	10.35	2.40	0.74	0.000	344.93	1.000	1.846	4 0
	13.21	1.39	8.98	22.0	3.95	4.97	4.05	2.22			13.40	1.268	
17 +	469.00	344.91	4.13	17.0	14.45	14.45	3.11	1.33	0.000	345.03	1.000*	1.033	4 0
	13.21	0.50	6.19	22.0	7.28	7.29	1.64	1.54			47.25	1.011	
17 +	472.00	345.02	3.71	17.0	16.93	16.95	8.25	0.45	0.000	345.04	0.267	1.308	0 0
	13.21	1.48	5.23	22.0	7.08	7.78	6.37	0.82			1.82	1.093	
17 +	550.00	345.17	4.88	17.0	19.34	19.34	9.98	0.49	0.000	345.18	0.252	1.162	0 0
	13.21	1.22	4.14	22.0	9.19	9.19	5.75	0.72			2.00	1.050	
17 +	587.00	345.53	0.01	17.0	1.87	1.87	0.07	0.21	0.000	345.70	1.000	1.844	4 0
	13.21	1.43	9.48	22.0	3.68	5.63	4.50	2.11			12.36	1.274	
+++++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW)												
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STATIONAERE		WASSERSPIEGELLAGEN											
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PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT Kl-strieg Station 0 m
ZUSTAND HQ 50 1st
VARIANTE ster0001 SEITE 51
DATEI ster0001

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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-HOEHIE NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
17 +	593.10	345.77	0.00	17.0	0.00	0.00	0.00	0.00	0.000	345.88	0.807	1.005	0 0
	13.21	0.67	0.01	22.0	1.70	1.71	0.03	0.26			29.26	1.002	
17 +	598.00	345.91	0.32	17.0	16.73	16.73	1.76	0.18	0.000	345.96	0.459	1.825	0 0
	13.21	1.84	7.82	22.0	4.78	5.95	6.77	1.15			2.32	1.258	
17 +	700.00	346.22	4.49	17.0	25.17	25.27	8.82	0.51	0.000	346.27	0.478	1.900	0 0
	13.21	1.26	5.61	22.0	3.61	3.86	4.07	1.38			3.65	1.245	
17 +	799.00	347.01	0.00	17.0	0.00	0.00	0.00	0.00	0.000	347.19	1.000	1.417	4 0
	13.21	1.06	9.68	22.0	8.36	8.63	4.67	2.07			20.18	1.142	
+++++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW)												
17 +	828.00	347.58	0.00	17.0	0.87	0.88	0.02	0.16	0.000	347.74	1.000	1.919	4 0
	13.21	1.49	8.03	22.0	3.43	4.81	3.66	2.19			14.28	1.277	
17 +	832.00	347.73	0.01	17.0	0.64	0.65	0.03	0.19	0.000	347.77	0.426	1.032	0 0
	13.21	0.63	0.90	22.0	7.79	7.81	1.50	0.60			6.73	1.012	
17 +	836.00	347.74	0.05	17.0	2.25	2.26	0.25	0.22	0.001	347.79	0.443	1.621	0 0
	13.21	1.39	8.21	22.0	6.33	7.23	6.95	1.18			3.03	1.197	
17 +	909.00	347.97	0.81	17.0	15.82	15.83	2.68	0.30	0.000	348.02	0.490	1.462	0 0
	13.21	1.11	11.08	22.0	12.41	13.42	10.35	1.07			3.35	1.169	

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	PROUDE IE O/oo	ALPHA	KZW	KZD
17 + 975.00	348.69	0.00	17.0	0.00	0.00	0.00	0.00	0.000	349.09	1.000	1.000	4	0
13.21	1.20	0.00	17.0	0.00	0.00	4.70	2.81	0.00	38.90	1.000	1.000	4	0
++++++	Engstelle mit Flusswechsel], Energieminimum > EH(UW)						++++++						
17 + 982.00	349.24	0.01	17.0	31.62	31.69	11.07 *	1.19	0.000	349.31	0.655	1.004	0	0
13.21	0.05	0.00	17.0	1.20	1.20	0.03	0.21	0.000	20.04	1.002	1.002	0	0
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PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009													
PROJEKT Kl-strieg ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m VARIANTE HQ 50 1st DATIEL Ster0001													
ERGEBNISSE SEITE 52													
17 + 989.00	349.37	6.84	17.0	30.54	30.56	11.54	0.59	0.000	349.40	0.388	1.220	0	0
13.21	1.80	0.14	18.0	7.58	7.93	0.66	0.22	0.000	4.45	1.073	1.073	0	0
18 + 19.00	349.57	6.32	17.0	29.30	29.31	8.36	0.76	0.003	349.63	0.589	1.249	0	0
13.21	1.57	0.01	17.0	7.17	8.79	5.29	1.30	0.14	10.52	1.081	1.081	0	0
18 + 49.00	349.88	6.80	17.0	29.57	29.58	8.76	0.78	0.000	349.94	0.597	1.249	0	0
13.21	1.45	0.06	17.8	6.92	6.92	0.28	0.21	0.000	10.57	1.081	1.081	0	0
18 + 74.00	350.15	7.21	17.0	29.79	29.80	9.16	0.79	0.000	350.20	0.594	1.249	0	0
13.21	1.36	0.13	17.8	6.44	7.60	4.57	1.29	0.25	10.32	1.082	1.082	0	0
18 + 110.00	350.52	7.76	17.0	29.69	29.71	9.68 *	0.80	0.000	350.57	0.572	1.235	0	0
13.21	1.22	0.23	17.8	5.87	6.75	4.11	1.27	0.30	9.91	1.078	1.078	0	0
ERGEBNISSE SEITE 67													

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	PROUDE IE O/oo	ALPHA	KZW	KZD
18 + 140.00	350.83	7.96	17.0	29.59	29.62	9.62 *	0.83	0.000	350.88	0.593	1.253	0	0
13.21	1.09	0.32	17.8	5.33	6.02	3.72	1.33	0.34	10.59	1.083	1.083	0	0
Ster0001.001													
18 + 171.00	351.15	8.06	17.0	29.69	29.74	9.83 *	0.82	0.000	351.20	0.596	1.299	0	0
13.21	0.97	0.57	18.0	4.80	5.37	3.41	1.34	0.38	10.20	1.097	1.097	0	0
18 + 173.00	351.33	6.37	17.0	8.59	8.59	3.47	1.84	0.000	351.46	1.000	1.113	4	0
13.21	0.52	0.26	18.0	6.15	6.17	0.43	0.60	0.000	39.17	1.040	1.040	4	0
+++++++ Engstelle mit Flusswechsel], Energieminimum > EH(UW) +++++++													
18 + 175.00	351.45	5.87	17.0	19.52	19.52	14.50	0.41	0.000	351.46	0.161	1.105	0	0
13.21	1.43	2.57	18.0	3.74	4.11	4.58	0.56	0.34	0.84	1.032	1.032	0	0
18 + 177.00	351.45	6.59	17.0	25.35	25.35	19.30	0.34	0.000	351.46	0.133	1.089	0	0
13.21	1.47	2.24	18.0	3.74	4.11	4.72	0.47	0.29	0.58	1.027	1.027	0	0
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PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009													
PROJEKT Kl-strieg ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m VARIANTE HQ 50 1st DATIEL Ster0001													
ERGEBNISSE SEITE 53													
18 + 226.00	351.61	8.50	17.0	26.04	26.06	10.88	0.78	0.016	351.65	0.440	1.160	0	0
13.21	1.35	4.71	18.0	3.71	4.98	3.81	1.24	0.00	6.77	1.049	1.049	0	0
18 + 229.00	351.60	6.79	17.0	24.91	24.97	6.01 *	1.13	0.000	351.73	1.000	1.411	4	0
13.21	1.33	5.70	18.0	2.79	5.09	2.77	2.06	0.64	29.49	1.128	1.128	4	0
ERGEBNISSE SEITE 68													

Ster0001.001												
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)												+++++++
18 + 232.00	351.71	6.92	17.0	23.41	23.46	10.98	0.63	0.000	351.74	0.351	1.241	0 0
13.21	1.41	4.10	18.0	3.65	13.50	3.99	1.03	0.000	351.74	3.78	1.073	0 0
18 + 234.00	351.72	7.63	17.0	20.98	21.42	11.77	0.65	0.000	351.75	0.329	1.219	0 0
13.21	1.38	3.88	18.0	3.65	13.42	3.97	0.43	0.000	351.75	3.23	1.070	0 0
18 + 274.00	351.96	7.35	17.0	25.52	25.56	8.60 *	0.85	0.008	352.03	0.586	1.282	0 0
13.21	1.61	5.86	18.0	3.59	5.15	3.83	1.53	0.000	352.03	10.79	1.087	0 0
18 + 277.00	352.22	13.16	17.0	28.29	28.33	11.84	1.11	0.000	352.28	0.592	1.025	0 0
13.21	0.05	0.05	18.0	5.44	5.44	0.22	0.00	0.000	352.28	13.67	1.011	0 0
18 + 280.00	352.28	6.55	17.0	22.52	22.52	13.24	0.49	0.000	352.30	0.254	1.270	0 0
13.21	1.98	4.98	18.0	5.16	6.22	6.49	0.77	0.32	352.30	1.72	1.086	0 0
18 + 282.00	352.29	5.98	17.0	22.52	22.52	13.36	0.45	0.000	352.30	0.228	1.268	0 0
12.04	1.98	4.51	18.0	5.16	6.22	6.52 *	0.69	0.000	352.30	1.39	1.086	0 0
18 + 297.00	352.31	4.92	17.0	20.81	20.82	10.74	0.46	0.000	352.33	0.260	1.306	0 0
10.70	1.30	4.39	18.0	5.16	5.61	5.74	0.77	0.33	352.33	1.75	1.095	0 0
18 + 366.00	352.67	0.00	17.0	0.00	0.00	0.00	0.00	0.000	353.11	1.000	1.000	4 0
10.70	1.07	10.70	18.0	4.21	5.39	3.66	2.92	0.000	353.11	44.12	1.000	4 0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)												
ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH												
Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0												
STATIONAERE WASSERSPIEGELLAGEN												
PROGRAMM WSPR2009 (C.) Kauf 2009												
DATUM : 3.06.2009												
PROJEKT Kl-strieg												
ZUSTAND Station 0												
VARIANTE HQ 50 1st												
DATEI Ster0001												
SEITE 54												
Seite 69												

Ster0001.001

ERGEBNISSE												
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	FRUDE	ALPHA	KZW KZD
ABFLUSS	NN+m/m	m³/s	m³/0.33/s	m	m	m²	m/s	m	NN+m	IE o/oo	ALPHAS	
18 + 377.00	353.40	10.70	17.0	24.58	24.60	9.30 *	1.15	0.000	353.47	0.604	1.002	0 0
10.70	0.05	0.00	18.0	0.63	0.65	0.01	0.19	0.000	353.47	16.77	1.001	0 0
18 + 380.00	353.44	2.32	17.0	21.15	21.24	4.80	0.48	0.002	353.51	0.580	1.542	0 0
10.70	1.78	8.38	18.0	4.63	6.71	6.33	1.32	0.000	353.51	5.85	1.188	0 0
18 + 421.00	353.83	0.00	17.0	0.00	0.00	0.00	0.00	0.065	354.05	0.621	1.000	0 0
10.70	1.51	10.70	18.0	4.44	6.23	5.12	2.09	0.000	354.05	17.51	1.000	0 0
18 + 423.00	354.02	7.54	17.0	20.70	20.71	5.10	1.48	0.000	354.14	1.000	1.024	4 0
10.70	0.32	3.05	18.0	8.28	8.29	1.99	1.54	0.57	354.14	49.10	1.010	4 0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)												
iiii Profiltabstand zum Ow ueberpruefen !!!!												
18 + 427.00	354.13	3.96	17.0	22.60	22.63	12.95	0.31	0.000	354.14	0.177	1.432	0 0
10.70	1.80	4.58	18.0	4.96	5.54	7.78	0.59	0.000	354.14	0.68	1.129	0 0
18 + 539.00	354.47	0.00	17.0	0.00	0.00	0.00	0.00	0.000	354.65	1.000	1.018	4 0
10.70	0.82	10.61	18.0	15.81	15.81	5.69	1.87	0.75	354.65	42.03	1.008	4 0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)												
iiii Profiltabstand zum Ow ueberpruefen !!!!												
18 + 622.00	355.95	0.00	17.0	0.34	0.34	0.01 *	0.14	0.003	356.17	0.673	1.002	0 0
10.70	1.63	10.70	18.0	4.97	6.55	5.15	2.08	0.000	356.17	18.34	1.001	0 0
18 + 632.00	356.15	0.00	17.0	0.00	0.00	0.00	0.00	0.000	356.38	0.413	1.000	12 0
10.70	1.74	10.70	18.0	1.83	7.23	5.00	2.14	0.000	356.38	23.07	1.000	12 0
18 + 638.00	356.43	0.00	17.0	0.00	0.00	0.00	0.00	0.000	356.51	0.363	1.000	0 0
10.70	1.73	10.70	18.0	6.51	8.17	8.32	1.29	0.000	356.51	4.99	1.000	0 0

Seite 70

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m3/s	K-WERT m/0.33/s	BREITE m	UMFANG m	FLAECH m2	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
18 + 682.00	356.77	1.49	17.0	6.79	6.82	1.76	0.84	0.000	356.94	1.000	1.567	4	0
10.70	1.78	8.60	18.0	3.30	4.98	4.31	2.00	0.000	356.94	1.000	1.567	4	0
		0.61	17.0	11.64	11.66	1.28	0.48	0.000	356.94	1.000	1.203	4	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
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 : 3.06.2009													
PROJEKT Kl-strieg Station 0 + 1.00 bis 0 + 23380.00 m													
ZUSTAND HQ 50 1st													
VARIANTE Ster0001													
DATEI Ster0001													
ERGEBNISSE													
STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m3/s	K-WERT m/0.33/s	BREITE m	UMFANG m	FLAECH m2	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
18 + 685.00	356.85	1.71	17.0	7.16	7.17	1.51	1.13	0.000	356.99	1.000	1.223	4	0
10.70	0.46	6.09	18.0	7.77	7.77	3.23	1.89	0.000	356.99	1.000	1.073	4	0
		2.90	17.0	13.51	13.53	2.67	1.09	0.000	356.99	1.000	1.073	4	0
18 + 688.00	356.97	1.81	17.0	19.59	19.89	5.99	0.30	0.000	356.99	0.282	1.556	0	0
10.70	1.93	4.77	18.0	3.36	4.43	5.67	0.84	0.000	356.99	1.57	1.168	0	0
		4.11	17.0	17.17	17.24	9.25	0.44	0.000	356.99	1.57	1.168	0	0
18 + 690.00	356.97	1.76	17.0	18.33	18.56	5.59	0.31	0.000	356.99	0.294	1.557	0	0
10.70	1.91	4.88	18.0	3.36	4.43	5.61	0.87	0.000	356.99	1.70	1.168	0	0
		4.06	17.0	17.05	17.13	8.93	0.45	0.000	356.99	1.70	1.168	0	0
18 + 756.00	357.29	0.00	17.0	0.00	0.00	0.00	0.00	0.011	357.36	0.582	1.360	0	0
10.70	1.15	5.68	18.0	4.71	5.29	3.98	1.43	0.000	357.36	9.16	1.113	0	0
		5.02	17.0	22.22	22.45	6.82	0.74	0.000	357.36	9.16	1.113	0	0
18 + 814.00	357.92	0.00	17.0	0.00	0.00	0.00	0.00	0.000	358.33	1.000	1.000	4	0
10.70	1.13	10.70	18.0	4.59	5.62	3.77	2.84	0.000	358.33	42.29	1.000	4	0
		0.00	17.0	0.00	0.00	0.00	0.00	0.000	358.33	42.29	1.000	4	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
18 + 817.00	358.58	7.54	17.0	20.84	20.85	5.33	1.41	0.000	358.69	1.000	1.096	4	0
		2.71	18.0	4.95	4.98	1.57	1.72	0.000	358.69	1.000	1.096	4	0
Ster0001.001 Seite 71													

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m3/s	K-WERT m/0.33/s	BREITE m	UMFANG m	FLAECH m2	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
18 + 820.00	358.68	5.18	17.0	29.50	29.50	12.73	0.41	0.000	358.70	0.263	1.393	0	0
10.70	1.87	4.27	18.0	4.40	5.44	3.58	0.77	0.000	358.70	1.76	1.117	0	0
		1.25	17.0	11.73	11.73	3.74	0.33	0.000	358.70	1.76	1.117	0	0
18 + 876.00	358.80	0.06	17.0	8.22	8.22	0.28	0.23	0.000	358.94	1.000	1.501	4	0
10.70	1.11	7.32	18.0	4.64	5.20	3.83	1.91	0.000	358.94	16.95	1.169	4	0
		3.32	17.0	15.61	15.62	3.83	0.87	0.000	358.94	16.95	1.169	4	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) iii Profiltabstand zum Ow ueberpruefen iii													
18 + 942.00	359.58	0.00	17.0	0.00	0.00	0.00	0.00	0.000	360.04	1.000	1.000	4	0
10.70	1.22	10.70	18.0	3.95	5.10	3.59	2.98	0.000	360.04	43.82	1.000	4	0
		0.00	17.0	0.00	0.00	0.00	0.00	0.000	360.04	43.82	1.000	4	0
18 + 947.00	359.74	0.00	17.0	0.00	0.00	0.00	0.00	0.004	360.29	1.000*	1.000	4	0
10.70	1.32	10.70	18.0	2.92	4.76	3.24	3.30	0.000	360.29	55.94	1.000	4	0
		0.00	17.0	0.00	0.00	0.00	0.00	0.004	360.29	55.94	1.000	4	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 : 3.06.2009													
PROJEKT Kl-strieg Station 0 + 1.00 bis 0 + 23380.00 m													
ZUSTAND HQ 50 1st													
VARIANTE Ster0001													
DATEI Ster0001													
ERGEBNISSE													
STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m3/s	K-WERT m/0.33/s	BREITE m	UMFANG m	FLAECH m2	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
18 + 952.00	360.26	2.00	17.0	16.84	16.86	4.83	0.42	0.000	360.31	0.486	1.749	0	0
10.70	1.56	7.77	18.0	5.98	6.52	7.19	1.08	0.000	360.31	3.16	1.248	0	0
		0.93	17.0	16.32	16.33	3.00	0.31	0.000	360.31	3.16	1.248	0	0
19 + 4.00	360.50	0.87	17.0	9.20	9.21	1.74	0.50	0.013	360.60	0.718	1.435	0	0
10.70	1.38	9.37	18.0	5.98	6.20	6.10	1.54	0.000	360.60	7.96	1.163	0	0
		0.45	17.0	6.20	6.20	1.01	0.45	0.000	360.60	7.96	1.163	0	0
		3.50	17.0	17.07	17.08	3.49	1.00	0.000	360.60	7.96	1.163	0	0
Ster0001.001 Seite 72													

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ 0.53/s	BREITE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHIE NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
19 + 5.00	360.55	7.09	18.0	5.73	7.72	3.75	1.89	0.000	360.69	1.000	1.323	4	0
10.70	1.43	0.10	17.0	4.28	4.28	0.24	0.43		29.01	1.110			
++++++++	Engstelle mit Fließwechsel,	Engstie mit Fließwechsel,	Energieminimum > EH(UW)	++++++++									
19 + 6.00	360.59	3.97	17.0	17.76	17.76	3.97	1.00	0.000	360.73	1.000	1.441	4	0
10.70	1.45	0.19	17.0	4.60	4.61	0.38	0.51		25.53	1.144			
19 + 16.00	360.75	6.11	17.0	30.94	30.99	11.95	0.51	0.000	360.77	0.321	1.240	0	0
10.70	1.51	4.33	17.0	5.14	6.65	5.07	0.85		3.22	1.075			
19 + 19.00	360.76	9.56	17.0	30.57	30.57	11.31	0.85	0.002	360.79	0.466	1.044	0	0
10.70	0.21	1.05	18.0	2.30	2.31	0.16	0.28		9.32	1.017			
19 + 22.00	360.79	5.93	17.0	30.57	30.57	10.82	0.55	0.000	360.81	0.377	1.285	0	0
10.70	1.48	0.24	17.0	7.30	7.35	0.90	0.27		4.15	1.091			
19 + 61.00	361.24	4.10	17.0	29.41	29.45	5.47	0.75	0.000	361.38	1.000	1.796	4	0
10.70	1.36	0.00	18.0	0.64	0.77	0.01	0.16		18.26	1.245			
++++++++	Engstelle mit Fließwechsel,	Energieminimum > EH(UW)	++++++++										
19 + 64.00	361.31	10.05	17.0	26.56	26.57	6.66	1.51	0.000	361.43	1.000	1.033	4	0
10.70	0.25	0.00	18.0	5.91	5.91	0.68	0.00		49.97	1.012			
19 + 67.00	361.40	4.44	17.0	18.97	18.99	7.34	0.60	0.000	361.44	0.485	1.529	0	0
10.70	1.52	0.44	18.0	3.93	4.86	4.84	1.20		4.49	1.169			
□	ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0												
STATIONNAERE	WASSERSPIEGELLAGEN												
PROGRAMM	WSPR2009 (C.) Knauf 2009												
PROJEKT	Kl-strieg												
ZUSTAND	Station 0												
VARIANTE	HQ 50 ist												
DATEI	Ster0001												

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ERGEBNISSE
Ster0001.001

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ 0.53/s	BREITE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHIE NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
19 + 123.00	361.95	0.71	17.0	15.79	15.81	1.60	0.44	0.000	362.08	1.000	1.811	4	0
10.70	1.25	6.90	18.0	4.01	4.40	3.63	1.90		14.36	1.259			
++++++++	Engstelle mit Fließwechsel,	Energieminimum > EH(UW)	++++++++										
19 + 180.00	362.87	9.32	17.0	0.00	0.00	0.00	0.00	0.000	363.08	1.000	1.417	4	0
10.70	1.62	1.38	17.0	11.44	11.44	1.97	0.70		17.58	1.155			
19 + 185.00	363.28	5.99	17.0	13.75	13.77	3.88	1.54	0.000	363.41	1.000*	1.043	4	0
10.70	0.54	4.52	18.0	8.77	9.01	2.68	1.69		44.57	1.017			
19 + 190.00	363.41	4.15	17.0	19.94	19.97	9.48	0.44	0.000	363.43	0.258	1.326	0	0
10.70	1.84	2.15	18.0	2.98	4.82	4.92	0.44		1.79	1.098			
19 + 224.00	363.48	3.62	17.0	17.75	17.77	6.88	0.53	0.001	363.51	0.387	1.505	0	0
10.70	1.70	5.31	18.0	2.98	4.82	4.96	1.07		3.40	1.153			
19 + 228.00	363.50	6.65	17.0	16.12	16.16	5.44	1.22	0.011	363.57	0.719	1.074	0	0
10.70	0.37	1.01	17.0	8.10	8.13	2.50	0.70		22.02	1.027			
19 + 232.00	363.59	3.53	25.0	14.06	14.22	6.06	0.58	0.000	363.62	0.343	1.257	0	0
10.70	1.65	4.92	22.0	3.86	4.87	5.20	0.95		1.70	1.081			
19 + 274.00	363.76	2.41	25.0	12.08	12.09	2.43	0.99	0.000	363.91	1.000	1.405	4	0
10.70	0.91	6.13	22.0	3.65	3.94	2.94	2.08		13.27	1.129			
++++++++	Engstelle mit Fließwechsel,	Energieminimum > EH(UW)	++++++++										
19 + 311.00	364.55	0.22	25.0	4.00	4.01	0.38	0.58	0.000	364.79	1.000	1.192	4	0
10.70	1.51	10.24	22.0	3.65	5.20	4.58	2.23		12.21	1.080			
□		0.24	25.0	3.28	3.28	0.37	0.64						

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Krauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 58

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ERGEBNISSE

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-HOEH NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
19 + 315.00	364.76	3.60	25.0	8.04	8.11	2.23	1.62	0.000	364.92	1.000*	1.021	4	0
10.70	0.46	3.61	22.0	4.05	4.05	1.82	1.98		23.45		1.007		
19 + 323.00	364.90	3.49	25.0	6.57	6.58	2.01	1.74	0.000	364.92	1.000*	1.007	4	0
10.70	1.84	3.49	22.0	3.62	4.70	5.93	0.59		0.416		1.305	0	0
19 + 369.00	365.04	5.05	25.0	5.78	5.84	2.33	0.66	0.000	364.94	0.416	1.305	0	0
10.70	1.41	3.77	22.0	4.09	4.09	1.82	1.98		23.45		1.007		
19 + 455.00	365.42	2.76	25.0	17.47	17.47	5.93	0.59	0.000	364.94	0.416	1.305	0	0
9.02	0.69	6.26	22.0	9.23	9.34	3.70	1.69		20.26		1.187	4	0
19 + 560.00	367.22	0.00	25.0	0.00	0.00	0.00	0.00	0.023	367.69	0.913	1.000	12	0
7.97	1.03	7.97	22.0	0.00	0.00	0.00	0.00		44.18		1.000		
19 + 564.00	367.43	0.00	25.0	0.00	0.00	0.00	0.00	0.000	367.83	0.881	1.000	0	0
7.97	1.11	7.97	22.0	2.76	4.66	2.84	2.80		31.39		1.000		

Seite 75

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

!!! Profiltabstand zum Ow ueberpruefen !!!

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19 + 587.00	368.17	1.19	25.0	12.95	13.06	2.26	0.53	0.000	368.24	0.684	1.588	0	0
7.97	1.62	5.86	22.0	3.98	5.78	4.59	1.28		4.58		1.198		
19 + 611.00	368.29	1.51	25.0	16.50	16.56	4.43	0.34	0.000	368.30	0.258	1.217	0	0
7.97	1.48	3.15	22.0	4.48	5.54	4.81	0.65		1.07		1.068		
19 + 626.00	368.30	1.34	25.0	17.39	17.42	4.93	0.27	0.000	368.31	0.196	1.155	0	0
7.97	1.34	2.55	22.0	4.79	5.39	4.90	0.52		0.63		1.050		

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

STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Krauf 2009 DATUM : 3.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 59

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ERGEBNISSE

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-HOEH NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
19 + 641.00	368.31	1.32	25.0	17.46	17.48	5.58	0.24	0.000	368.32	0.157	1.139	0	0
7.97	1.19	2.24	22.0	5.10	5.32	5.14	0.44		0.41		1.044		
19 + 726.00	368.79	0.00	25.0	0.00	0.00	0.00	0.00	0.000	369.09	1.000	1.000	4	0
7.97	0.85	7.97	22.0	5.49	5.91	3.29	2.42		26.51		1.000		
19 + 752.00	369.25	0.01	25.0	1.49	1.49	0.04	0.26	0.000	369.44	0.935	1.044	0	0
7.97	0.99	7.94	22.0	5.78	6.24	4.08	1.95		13.77		1.020		
19 + 753.00	369.18	0.00	25.0	0.00	0.00	0.00	0.00	0.013	369.48	0.953	1.000	11	0
7.97	0.91	7.97	22.0	5.10	5.61	3.31	2.41		24.11		1.000		

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PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 61

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ 0.33/s	BREITE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEH NN+m	PROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
=====												
ERGEBNISSE												
+++++++												
Engstelle mit Fließwechsel, Energieminimum > EH(UW)												
20 + 218.00	375.44	0.46	17.0	0.96	1.25	0.41	1.11	0.000	375.83	1.000	1.209	4 5
	7.97	7.35	22.0	2.47	2.77	2.56	2.87	0.000	375.83	1.000	1.082	
	1.21	0.16	17.0	0.61	0.86	0.19	0.85	0.000	375.34	1.000	1.000	4 0
	0.90	0.00	17.0	0.00	0.00	0.00	0.00	0.000	375.34	1.000	1.000	4 0
+++++++												
Engstelle mit Fließwechsel, Energieminimum > EH(UW)												
20 + 222.00	375.74	0.00	17.0	1.03	1.03	0.02	0.10	0.000	375.86	0.590	1.006	0 0
	7.97	7.97	22.0	7.14	8.09	5.33	1.50	0.000	375.86	0.590	1.006	0 0
	1.54	0.00	17.0	0.00	0.00	0.00	0.00	0.000	375.86	0.590	1.006	0 0
20 + 247.00	375.93	0.00	17.0	0.06	0.06	0.00	0.00	0.000	376.01	0.419	1.000	0 0
	7.97	7.97	22.0	6.85	7.67	6.34	1.26	0.000	376.01	0.419	1.000	0 0
	1.40	0.00	17.0	0.00	0.00	0.00	0.00	0.000	376.01	0.419	1.000	0 0
20 + 251.00	375.81	0.00	17.0	0.00	0.00	0.00	0.00	0.121	376.21	0.972	1.000	11 0
	7.97	7.97	22.0	3.37	4.34	2.85	2.80	0.000	376.21	0.972	1.000	11 0
	1.22	0.00	17.0	0.00	0.00	0.00	0.00	0.000	376.21	0.972	1.000	11 0
20 + 255.00	376.19	1.50	12.0	9.35	9.39	3.79	0.40	0.000	376.27	0.527	1.979	0 0
	7.97	6.28	22.0	3.56	4.45	4.62	1.36	0.000	376.27	0.527	1.979	0 0
	1.64	0.19	12.0	3.94	3.98	0.79	0.25	0.000	376.27	0.527	1.979	0 0
20 + 300.00	376.70	0.31	12.0	7.43	7.44	0.86	0.36	0.000	376.85	1.000	2.447	4 0
	7.97	5.07	22.0	2.47	3.86	2.46	2.07	0.000	376.85	1.000	2.447	4 0
	1.23	2.59	12.0	15.06	15.07	4.07	0.64	0.000	376.85	1.000	2.447	4 0
+++++++												
Engstelle mit Fließwechsel, Energieminimum > EH(UW)												
!!! Profllabstand zum Ow ueberpruefen !!!												
20 + 320.00	376.91	0.72	12.0	5.35	5.37	1.46	0.49	0.000	377.04	0.875	1.951	0 0
	7.97	6.66	22.0	5.15	5.27	3.84	1.74	0.000	377.04	0.875	1.951	0 0
	0.60	2.45	12.0	11.57	11.57	3.77	1.25	0.000	377.04	0.875	1.951	0 0
Seite 79												

Ster0001.001

+++++++

Engstelle mit Fließwechsel, Energieminimum > EH(UW)

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 : 3.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 62

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ 0.33/s	BREITE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEH NN+m	PROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
=====												
ERGEBNISSE												
+++++++												
Engstelle mit Fließwechsel, Energieminimum > EH(UW)												
!!! Profllabstand zum Ow ueberpruefen !!!												
20 + 330.00	377.27	1.26	12.0	13.07	13.13	3.79	0.33	0.000	377.32	0.501	2.559	0 0
	7.97	4.27	22.0	3.18	3.21	3.11	1.37	0.000	377.32	0.501	2.559	0 0
	1.08	2.44	12.0	11.35	11.40	5.31	0.46	0.000	377.32	0.501	2.559	0 0
20 + 332.00	377.29	0.00	12.0	0.00	0.00	0.00	0.00	0.000	377.33	0.387	2.187	0 0
	7.97	3.92	22.0	4.79	5.17	3.75	1.05	0.000	377.33	0.387	2.187	0 0
	1.04	4.05	12.0	32.78	32.28	11.43	0.35	0.000	377.33	0.387	2.187	0 0
20 + 385.00	377.76	0.16	12.0	9.29	9.29	0.71	0.23	0.000	377.89	1.000	2.315	4 0
	7.97	6.12	22.0	4.21	4.81	3.32	1.84	0.000	377.89	1.000	2.315	4 0
	1.06	1.69	12.0	14.25	14.28	3.40	0.50	0.000	377.89	1.000	2.315	4 0
+++++++												
Engstelle mit Fließwechsel, Energieminimum > EH(UW)												
!!! Profllabstand zum Ow ueberpruefen !!!												
20 + 428.00	378.68	0.73	12.0	17.56	17.57	2.62	0.28	0.000	378.80	1.000	2.363	4 0
	7.97	7.03	22.0	4.60	5.29	4.40	1.60	0.000	378.80	1.000	2.363	4 0
	1.43	0.21	12.0	13.45	13.47	1.13	0.19	0.000	378.80	1.000	2.363	4 0
20 + 431.00	378.72	0.71	12.0	13.48	13.49	1.24	0.57	0.000	378.82	1.000*	1.297	4 0
	7.97	2.83	20.3	7.32	7.35	1.62	1.74	0.000	378.82	1.000*	1.297	4 0
	0.40	4.44	12.0	13.86	13.88	3.77	1.18	0.000	378.82	1.000*	1.297	4 0
Seite 80												

ster0001.001

20 + 434.00	378.78	0.17	12.0	9.69	9.73	1.10	0.16	0.000	378.83	0.486	2.082	0	0
7.97	1.44	5.68	22.0	5.03	5.51	4.97	1.14	0.38	378.83	5.10	1.346	0	0
		2.11	12.0	13.17	13.18	5.60	0.38						
20 + 436.00	378.81	0.13	12.0	4.64	4.66	0.91	0.14	0.000	378.83	0.247	1.917	0	0
7.97	1.43	4.67	22.0	6.08	6.31	6.31	0.74	0.28	378.83	1.21	1.276	0	0
		3.17	12.0	20.74	20.74	11.36	0.28						
20 + 499.00	379.25	0.00	12.0	0.00	0.00	0.00	0.00	0.00	379.41	1.000	2.062	4	0
7.97	0.78	5.40	22.0	4.11	4.45	2.54	2.13	0.67	379.41	19.73	1.328	4	0
		2.57	12.0	15.39	15.46	3.85	0.67						

Engstelle mit Fließwechsel, Energieminimum > EH(UW)

!!! Profiltabstand zum Ow ueberpruefen !!!

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 : 3.06.2009

PROJEKT Kl-strieg Station 0 + 1.00 bis 0 + 23380.00 m
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 63

ERGEBNISSE

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		
20 + 598.00	380.82	0.00	12.0	0.00	0.00	0.00	0.00	0.000	380.94	1.000	3.012	4	0
7.97	1.31	5.55	22.0	3.04	4.50	3.02	1.84	0.41	380.94	11.86	1.572	4	0
		2.42	12.0	33.61	33.61	5.90	0.41						
+++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW)							+++++++					
20 + 603.00	381.19	0.01	12.0	0.72	0.73	0.02	0.37	0.000	381.28	1.000	1.014	4	0
7.97	0.34	0.42	22.0	6.81	6.82	0.41	1.04	0.35	381.28	96.76	1.005	4	0
		7.34	12.0	25.82	25.85	5.60	1.35						

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20 + 608.00	381.27	0.62	12.0	6.21	6.24	1.89	0.33	0.000	381.30	0.391	2.461	0	0
7.97	1.65	3.32	22.0	1.97	3.80	2.97	1.12	0.36	381.30	3.59	1.366	0	0
		4.03	12.0	32.72	32.73	11.35	0.36						
20 + 674.00	381.69	1.41	12.0	13.73	13.73	3.10	0.45	0.000	381.82	1.000	2.992	4	0
7.97	1.09	5.66	22.0	3.60	3.97	3.03	1.87	0.36	381.82	10.40	1.574	4	0
		0.90	12.0	16.08	16.08	2.52	0.36						
+++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW)							+++++++					
	!!! Profiltabstand zum Ow ueberpruefen !!!												
20 + 722.00	382.57	0.12	12.0	5.39	5.39	0.48	0.24	0.000	382.70	1.000	2.601	4	0
7.97	1.32	6.13	22.0	3.60	4.53	3.36	1.83	0.42	382.70	10.29	1.498	4	0
		1.73	12.0	20.57	20.58	4.13	0.42						
20 + 725.10	382.77	1.18	12.1	7.29	7.30	1.13	1.05	0.000	382.89	1.000*	1.080	4	0
7.97	0.37	0.37	14.5	1.92	1.94	0.30	1.24	0.37	382.89	88.91	1.028	4	0
		6.42	12.0	12.43	12.50	3.90	1.65						
20 + 728.00	382.82	0.25	12.0	5.56	5.57	0.86	0.29	0.000	382.92	0.752	2.892	0	0
7.97	1.45	5.24	22.0	2.76	3.87	3.22	1.63	0.41	382.92	6.99	1.532	0	0
		2.48	12.0	22.92	22.98	6.04	0.41						
20 + 733.00	382.84	0.16	12.0	6.50	6.50	0.61	0.26	0.002	382.97	0.939	2.685	0	0
7.97	1.33	5.47	22.0	2.76	3.87	2.89	1.89	0.37	382.97	10.91	1.493	0	0
		2.34	12.0	18.74	18.79	4.70	0.50						
20 + 753.00	383.43	0.79	12.0	12.50	12.55	2.23	0.35	0.000	383.57	1.000	2.824	4	0
7.97	1.51	6.29	22.0	2.76	3.87	3.36	1.87	0.37	383.57	8.72	1.562	4	0
		0.89	12.0	12.92	12.95	2.42	0.37						

Engstelle mit Fließwechsel, Energieminimum > EH(UW)

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 : 3.06.2009

PROJEKT Kl-strieg Station 0 + 1.00 bis 0 + 23380.00 m
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI Ster0001

SEITE 64

ERGEBNISSE

Seite 82

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	BREITE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
20 + 758.00	383.48	2.59	12.0	15.26	15.27	3.08	0.84	0.000	383.59	1.000	1.663	4 0
20 + 758.00	0.33	3.61	22.0	6.30	6.30	1.83	1.97	0.000	383.59	41.69	1.191	4 0
20 + 758.00	0.33	1.77	12.0	10.51	10.52	2.11	0.84	0.000	383.59	41.69	1.191	4 0
20 + 763.00	383.57	2.69	12.0	22.47	22.49	7.06	0.38	0.000	383.62	0.508	2.810	0 0
20 + 763.00	1.66	1.41	12.0	14.48	14.50	4.01	0.35	0.000	383.62	4.71	1.457	0 0
20 + 832.00	383.90	0.00	25.0	0.00	0.00	0.00	0.00	0.000	384.01	1.000	1.249	4 0
20 + 832.00	0.87	3.10	22.0	2.99	3.44	1.64	1.88	0.000	384.01	1.000	1.249	4 0
20 + 832.00	0.87	4.87	25.0	25.83	26.38	4.51	1.08	0.000	384.01	19.65	1.076	4 0
+++++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW)!!! Profiltabstand zum Ow ueberpruefen !!!											
20 + 891.00	384.92	0.56	25.0	7.08	7.08	0.83	0.67	0.000	385.05	1.000	1.466	4 0
20 + 891.00	1.11	4.51	22.0	3.00	3.45	2.36	1.92	0.000	385.05	12.60	1.149	4 0
20 + 891.00	1.11	2.90	25.0	14.50	14.50	2.97	0.98	0.000	385.05	12.60	1.149	4 0
20 + 893.00	385.26	0.00	25.0	0.00	0.00	0.00	0.00	0.000	385.41	1.000*	1.007	4 0
20 + 893.00	0.42	0.02	22.0	0.34	0.40	0.03	0.66	0.000	385.41	23.02	1.003	4 0
20 + 893.00	0.42	7.93	25.0	15.03	15.05	4.61	1.72	0.000	385.41	23.02	1.003	4 0
20 + 895.00	385.39	0.11	25.0	4.12	4.13	0.53	0.21	0.000	385.41	0.267	1.247	0 0
20 + 895.00	1.56	3.09	22.0	4.04	4.83	4.50	0.69	0.000	385.41	1.07	1.077	0 0
20 + 895.00	1.56	4.77	25.0	33.31	33.31	11.71	0.41	0.000	385.41	1.07	1.077	0 0
20 + 899.00	385.40	0.13	25.0	4.50	4.50	0.63	0.20	0.000	385.41	0.245	1.227	0 0
20 + 899.00	1.59	2.96	22.0	4.04	4.85	4.60	0.64	0.000	385.41	0.91	1.071	0 0
20 + 899.00	1.59	4.88	25.0	33.61	33.62	12.50	0.39	0.000	385.41	0.91	1.071	0 0
20 + 933.00	385.95	1.30	25.0	28.21	28.23	2.71	0.48	0.000	386.03	1.000	1.918	4 0
20 + 933.00	1.23	4.94	22.0	3.93	4.69	3.17	1.56	0.000	386.03	8.44	1.280	4 0
20 + 933.00	1.23	1.73	25.0	19.85	19.85	4.17	0.62	0.000	386.03	8.44	1.280	4 0
+++++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW)!!! Profiltabstand zum Ow ueberpruefen !!!											
20 + 936.00	386.04	0.00	25.0	0.00	0.00	0.00	0.00	0.000	386.11	0.000	1.000	11 0
20 + 936.00	1.29	7.95	22.0	26.45	54.67	7.10	1.12	0.000	386.11	39.46	1.000	11 0
20 + 936.00	1.29	0.02	25.0	0.26	0.32	0.02	0.88	0.000	386.11	39.46	1.000	11 0
20 + 941.00	386.37	0.39	17.0	15.91	15.91	1.20	0.32	0.000	386.48	1.000	2.188	4 0
20 + 941.00	1.56	5.00	22.0	2.88	4.35	2.85	1.75	0.000	386.48	11.21	1.357	4 0
20 + 941.00	1.56	2.59	17.0	20.53	20.54	4.17	0.62	0.000	386.48	11.21	1.357	4 0

Seite 83

Ster0001.001

+++++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)!!! Profiltabstand zum Ow ueberpruefen !!!
 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 : 3.06.2009
 PROJEKT K1-strieg
 ZUSTAND Station 0
 VARIANTE HQ 50 1st
 DATEI Ster0001
 ERGEBNISSE
 SEITE 65

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	BREITE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
21 + 11.00	386.84	0.84	17.0	16.54	16.54	2.39	0.35	0.000	386.87	0.502	1.665	0 0
21 + 11.00	0.83	2.69	22.0	3.23	3.78	2.28	1.18	0.000	386.87	5.66	1.186	0 0
21 + 11.00	0.83	4.45	17.0	28.63	28.66	8.08	0.55	0.000	386.87	5.66	1.186	0 0
21 + 75.00	387.65	0.07	17.0	1.60	1.69	0.14	0.51	0.000	387.78	1.000	1.630	4 0
21 + 75.00	1.05	3.34	22.0	2.03	3.01	1.53	2.17	0.000	387.78	23.99	1.180	4 0
21 + 75.00	1.05	4.56	17.0	21.48	21.50	4.74	0.96	0.000	387.78	23.99	1.180	4 0
+++++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW)!!! Profiltabstand zum Ow ueberpruefen !!!											
21 + 77.00	387.71	0.16	17.0	1.25	1.29	0.20	0.77	0.000	387.85	1.000	1.654	4 0
21 + 77.00	1.09	3.38	21.3	1.77	2.79	1.53	2.21	0.000	387.85	23.91	1.186	4 0
21 + 77.00	1.09	4.44	17.0	21.15	21.18	4.64	0.96	0.000	387.85	23.91	1.186	4 0
21 + 79.00	387.80	0.22	17.0	1.52	1.58	0.28	0.81	0.000	387.94	1.000*	1.701	4 0
21 + 79.00	1.09	3.31	22.0	2.59	2.59	1.46	2.27	0.000	387.94	22.85	1.197	4 0
21 + 79.00	1.09	4.44	17.0	20.31	20.34	4.63	0.96	0.000	387.94	22.85	1.197	4 0
21 + 82.00	387.87	0.19	17.0	3.45	3.46	0.43	0.45	0.000	387.99	1.000*	2.274	4 0
21 + 82.00	0.93	5.14	22.0	3.91	3.91	2.78	1.85	0.000	387.99	11.08	1.377	4 0
21 + 82.00	0.93	2.64	17.0	26.68	26.69	4.70	0.56	0.000	387.99	11.08	1.377	4 0
21 + 107.00	388.33	0.25	17.0	0.92	1.27	0.29	0.85	0.000	388.62	1.000*	1.157	4 0
21 + 107.00	1.06	7.63	22.0	4.05	4.22	3.16	2.41	0.000	388.62	17.67	1.065	4 0
21 + 107.00	1.06	0.09	17.0	1.37	1.39	0.17	0.56	0.000	388.62	17.67	1.065	4 0

Seite 84

STATION	WSP/PLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ³ 0.33/s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS		
21 + 132.00	388.71	0.00	17.0	0.00	0.00	0.00	0.00	0.000	388.86	0.602	1.000	0	0
6.68	1.11	6.68	22.0	4.83	5.64	3.93	1.70	0.00	9.65	1.000			
0.00	0.00	0.00	17.0	0.00	0.00	0.00	0.00	0.000	388.89	0.304	1.033	12	0
21 + 137.00	388.84	0.00	17.0	0.00	0.00	0.00	0.00	0.000	388.89	0.304	1.033	12	0
6.68	1.18	3.41	22.0	2.16	5.21	3.28	1.04	0.84	4.15	1.011			
0.00	0.00	0.00	17.7	0.00	0.00	0.00	0.00	0.000	389.01	1.000	1.091	4	0
21 + 142.00	388.82	0.00	17.0	5.05	5.55	3.41	1.94	0.000	14.90	1.000	1.042	4	0
6.68	0.99	6.63	22.0	4.40	4.40	0.19	0.26						
0.00	0.00	0.00	17.0	0.00	0.00	0.00	0.00	0.000	389.09	0.831	1.000	0	0
21 + 146.00	388.90	0.00	17.0	3.88	4.48	2.17	1.94	0.000	20.60	1.000	1.000	0	0
4.21	0.93	4.21	22.0	0.00	0.00	0.00	0.00						
0.00	0.00	0.00	17.0	0.00	0.00	0.00	0.00	0.000	389.09	0.831	1.000	0	0
21 + 146.00	388.90	0.00	17.0	3.88	4.48	2.17	1.94	0.000	20.60	1.000	1.000	0	0
4.21	0.93	4.21	22.0	0.00	0.00	0.00	0.00						
0.00	0.00	0.00	17.0	0.00	0.00	0.00	0.00	0.000	389.09	0.831	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 : 3.06.2009

PROJEKT k1-strieg + 1.00 bis 0 + 23380.00 m
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI ster0001

SEITE 66

ERGEBNISSE

STATION	WSP/PLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ³ 0.33/s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS		
21 + 268.00	391.55	0.00	17.0	0.00	0.00	0.00	0.00	0.000	391.79	1.000	1.000	4	0
4.21	0.87	4.21	22.0	3.91	4.43	1.92	2.19	0.00	30.37	1.000	1.000	4	0
0.00	0.00	0.00	17.0	0.00	0.00	0.00	0.00	0.000	391.80	0.365	1.000	0	0
21 + 272.00	391.75	0.00	17.0	5.19	5.93	4.13	1.02	0.000	3.48	1.000	1.000	0	0
4.21	1.17	4.21	22.0	0.00	0.00	0.00	0.00						
0.00	0.00	0.00	17.0	0.00	0.00	0.00	0.00	0.000	391.80	0.365	1.000	0	0

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ster0001.001

STATION	WSP/PLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ³ 0.33/s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS		
21 + 276.00	391.91	0.01	17.0	2.08	2.08	0.06	0.16	0.000	392.00	1.000	1.915	4	0
4.21	0.74	3.24	22.0	3.66	4.15	2.13	1.52	0.000	11.64	1.000	1.304	4	0
0.96	0.96	17.0	17.37	17.37	2.13	0.45	0.000	11.64	1.000	1.304	4	0	
21 + 404.00	394.49	0.22	17.0	10.67	10.67	0.72	0.31	0.000	394.59	1.000	1.404	4	0
4.21	0.76	3.96	22.0	6.01	6.26	2.80	1.41	0.000	12.09	1.163			
0.03	0.03	17.0	2.11	2.11	0.12	0.27	0.000	12.09	1.163				
21 + 512.00	397.14	1.45	17.0	18.76	18.76	2.40	0.61	0.000	397.23	1.000*	1.693	4	0
4.21	0.56	2.76	22.0	4.67	4.86	1.76	1.57	0.000	19.77	1.220			
0.00	0.00	17.0	17.0	18.76	18.76	2.40	0.00	0.000	397.23	1.000*	1.693	4	0
21 + 512.00	397.14	1.45	17.0	18.76	18.76	2.40	0.61	0.000	397.23	1.000*	1.693	4	0
4.21	0.56	2.76	22.0	4.67	4.86	1.76	1.57	0.000	19.77	1.220			
0.00	0.00	17.0	17.0	18.76	18.76	2.40	0.00	0.000	397.23	1.000*	1.693	4	0
21 + 611.00	399.50	2.62	22.0	4.67	4.85	1.72	1.52	0.000	19.01	1.229			
3.92	0.56	6.00	17.0	0.00	0.00	0.00	0.00						
0.00	0.00	17.0	17.0	18.76	18.76	2.26	0.57	0.000	399.59	1.000*	1.717	4	0
21 + 611.00	399.50	2.62	22.0	4.67	4.85	1.72	1.52	0.000	19.01	1.229			
3.92	0.56	6.00	17.0	0.00	0.00	0.00	0.00						
0.00	0.00	17.0	17.0	18.76	18.76	2.26	0.57	0.000	399.59	1.000*	1.717	4	0
21 + 616.00	399.82	3.92	22.0	1.06	3.47	1.19	3.31	0.000	400.38	1.000*	1.000	4	0
3.92	0.76	0.00	22.0	0.00	0.00	0.00	0.00						
0.00	0.00	17.0	17.0	18.76	18.76	2.26	0.00	0.000	400.38	1.000*	1.000	4	0
21 + 616.00	399.82	3.92	22.0	1.06	3.47	1.19	3.31	0.000	400.38	1.000*	1.000	4	0
3.92	0.76	0.00	22.0	0.00	0.00	0.00	0.00						
0.00	0.00	17.0	17.0	18.76	18.76	2.26	0.00	0.000	400.38	1.000*	1.000	4	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 : 3.06.2009

PROJEKT k1-strieg + 1.00 bis 0 + 23380.00 m
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI ster0001

SEITE 67

ERGEBNISSE

Seite 86

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	BREITE m	UMFANG m	FLAECHEN m ²	GESCHW m/s	HZV m	E-HOEHEN NN+m	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
Ster0001.001												
21 + 621.00 3.14	400.37 1.20	0.61 2.51 0.03	17.0 22.0 17.0	6.48 5.46 2.42	6.53 5.74 2.43	2.79 5.33 0.30	0.22 0.47 0.09	0.000	400.38	0.180 0.51	1.335 1.121	0 0
21 + 722.00 3.14	401.66 0.62	0.00 3.14 0.00	17.0 32.0 17.0	0.00 3.24 0.00	0.00 3.70 0.00	0.00 1.48 0.00	0.00 2.12 0.00	0.000	401.89	1.000 31.34	1.000 1.000	4 0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) !!! Profiltabstand zum Ow ueberpruefen !!!												
21 + 833.00 3.14	404.34 0.70	0.00 3.11 0.03	17.0 22.0 17.0	0.75 3.99 1.55	0.75 4.25 1.55	0.01 1.80 0.09	0.13 1.73 0.34	0.000	404.49	1.000 19.38	1.077 1.035	4 0
+++++++ ungewoehnlicher Wasserspiegelanstieg !!! Profiltabstaende ueberpruefen !!!												
21 + 926.00 3.14	405.86 0.70	0.00 3.11 0.03	17.0 22.0 17.0	0.76 3.99 1.55	0.76 4.25 1.55	0.01 1.80 0.09	0.13 1.73 0.34	0.000	406.01	1.000* 19.35	1.078 1.035	4 0
21 + 938.00 3.14	406.02 0.96	0.00 3.14 0.00	17.0 35.0 35.0	0.00 1.07 0.00	0.00 2.68 0.00	0.00 1.02 0.00	0.00 3.07 0.00	0.097	406.50	1.000* 27.75	1.000 1.000	4 0
21 + 942.00 3.14	406.31 0.79	0.00 3.14 0.00	25.0 22.0 25.0	0.00 2.91 0.00	0.00 3.42 0.00	0.00 1.43 0.00	0.00 2.19 0.00	0.000	406.55	1.000* 31.80	1.000 1.000	4 0
21 + 943.00 3.14	406.74 0.89	0.00 3.14 0.00	25.0 32.0 22.0	0.00 3.38 0.00	0.00 3.83 0.00	0.00 1.50 0.00	0.00 2.09 0.00	0.000	406.96	1.000* 31.26	1.000 1.000	4 0
21 + 951.00 3.14	406.97 0.86	0.00 1.34 1.80	25.0 22.0 25.0	0.37 3.12 16.85	0.37 3.33 17.06	0.00 1.83 3.80	0.06 0.73 0.47	0.000	406.98	0.362 2.65	1.150 1.048	0 0
22 + 16.00 3.14	407.77 0.55	0.14 1.37 1.64	25.0 22.0 25.0	4.04 2.43 23.93	4.04 2.70 23.95	0.26 0.95 2.35	0.53 1.44 0.70	0.000	407.83	1.000 17.10	1.496 1.147	4 0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) !!! Profiltabstand zum Ow ueberpruefen !!!												

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ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH
 Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0
 Ster0001.001
 STATIONAERE WASSERSPIEGELLAGEN
 PROGRAMM WSPR2009 (C.) Kauf 2009 DATUM : 3.06.2009
 PROJEKT Kl-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 50 1st
 DATEI Ster0001

ERGEBNISSE
SEITE 68

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	BREITE m	UMFANG m	FLAECHEN m ²	GESCHW m/s	HZV m	E-HOEHEN NN+m	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
22 + 92.00 3.14	409.34 0.55	0.00 3.14 0.00	25.0 22.0 25.0	0.00 3.76 0.00	0.00 4.19 0.00	0.00 1.56 0.00	0.00 2.02 0.00	0.000	409.54	1.000 31.42	1.000 1.000	4 0
22 + 140.00 3.14	410.46 0.80	0.00 3.14 0.00	25.0 22.0 25.0	0.00 2.86 0.00	0.00 3.39 0.00	0.00 1.42 0.00	0.00 2.21 0.00	0.000	410.70	1.000* 32.09	1.000 1.000	4 0
22 + 146.00 3.14	410.67 1.28	0.00 3.14 0.00	25.0 32.0 22.0	0.00 1.06 0.00	0.00 3.53 0.00	0.00 1.60 0.00	0.00 1.96 0.00	0.000	410.87	0.509 22.63	1.000 1.000	10 0
22 + 152.00 3.14	410.80 0.80	0.00 3.14 0.00	25.0 22.0 25.0	0.00 3.04 0.00	0.00 3.53 0.00	0.00 1.50 0.00	0.00 2.09 0.00	0.001	411.02	0.948 28.13	1.000 1.000	0 0
22 + 210.00 3.14	412.00 0.79	0.00 2.65 0.49	25.0 22.0 25.0	0.00 3.51 5.47	0.00 3.93 5.48	0.00 2.05 0.79	0.00 1.29 0.62	0.000	412.07	0.689 8.21	1.202 1.074	0 0
22 + 241.00 3.14	412.89 0.89	0.00 3.14 0.00	25.0 22.0 25.0	0.00 2.33 0.00	0.00 3.14 0.00	0.00 1.33 0.00	0.00 2.36 0.00	0.000	413.18	1.000 36.39	1.000 1.000	4 0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) !!! Profiltabstand zum Ow ueberpruefen !!!												
22 + 255.00	413.36	0.00 3.14	25.0 50.0	0.00 0.94	0.00 2.69	0.00 0.98	0.00 3.20	0.033	413.88	1.000	1.000	4 0

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STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /s	BREITHE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHEN NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
22 + 317.00	414.73	1.12	25.0	24.72	24.72	2.22	0.50	0.000	414.80	1.000	1.837	4	0
3.14	0.76	0.39	25.0	1.98	2.15	1.13	1.44	0.000	10.10	1.256			
22 + 261.00	413.88	1.02	25.0	17.34	17.36	6.43	0.31	0.000	413.88	0.117	1.242	0	0
3.14	1.25	1.22	25.0	3.19	3.47	3.29	0.19		0.22	1.073			
22 + 394.00	416.18	2.76	22.0	2.98	3.61	2.04	1.35	0.000	416.26	1.000	1.619	4	0
3.14	0.83	0.07	25.0	3.61	3.61	0.21	0.32		6.90	1.230			
22 + 447.00	417.10	0.00	25.0	0.00	0.00	0.00	0.00	0.000	417.36	1.000*	1.000	4	0
3.14	0.85	0.00	22.0	2.70	3.27	1.40	2.25	0.000	32.51	1.000			
22 + 453.00	417.14	0.00	25.0	0.00	0.00	0.00	0.00	0.042	417.66	1.000*	1.000	4	0
3.14	0.97	0.00	50.0	0.94	2.69	0.98	3.20	0.00	15.68	1.000			
22 + 459.00	417.43	0.00	25.0	0.00	0.00	0.00	0.00	0.000	417.68	1.000*	1.000	4	0
3.14	0.78	0.00	3.14	2.87	3.39	1.42	2.21	0.000	31.94	1.000			
			25.0	0.00	0.00	0.00	0.00						

Ster0001.001
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STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /s	BREITHE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHEN NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
22 + 509.00	418.50	3.14	22.0	3.00	3.61	1.68	1.87	0.000	418.68	0.797	1.000	0	0
3.14	0.91	0.00	25.0	0.00	0.00	0.00	0.00		20.01	1.000			
22 + 529.00	418.93	0.00	25.0	0.00	0.00	0.00	0.00	0.000	419.45	1.000	1.000	4	0
3.14	0.97	0.00	50.0	0.94	2.69	0.98	3.20	0.00	15.68	1.000			
22 + 593.00	420.17	3.14	22.0	2.61	3.22	1.38	2.27	0.000	420.43	1.000	1.000	4	0
3.14	0.73	0.00	25.0	0.00	0.00	0.00	0.00		33.01	1.000			
22 + 648.00	421.98	0.00	25.0	0.00	0.00	0.00	0.00	0.000	422.06	1.000	1.567	4	0
3.14	0.73	1.36	22.0	2.32	2.84	1.21	1.48	0.000	14.12	1.175			
22 + 655.00	422.11	0.00	25.0	0.00	0.00	0.00	0.00	0.000	422.18	1.000*	1.567	4	0
3.14	0.73	1.78	22.0	2.32	2.84	1.21	1.48	0.000	14.11	1.175			
3.14	0.73	1.36	25.0	20.44	20.45	2.09	0.65						

Ster0001.001
Seite 90

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

STATIONNAERE WASSERSPIEGELLAGEN
PROGRAMM WSPR2009 (C.) Knauf 2009
DATUM : 3.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 50 1st
DATEI Ster0001

ERGEBNISSE
SEITE 70

Sterf0001.001

PROJEKT	K1-strieg	Station 0	+ 1.00	bis 0 + 23380.00	m	ERGEBNISSE											
ZUSTAND	Station 0	HQ 50 1st									SEITE				71		
VARIANTE	HQ 50 1st	Sterf0001															
DATEI	Sterf0001																
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	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/oo	ALPHAS						
22 + 936.00	427.69	0.00	25.0	0.00	0.00	0.00	0.00	0.00	427.89	1.000*	1.000	4	0				
	2.07	0.00	25.0	0.00	0.00	0.00	0.00	0.00	32.60	1.000							
	0.60	0.00	25.0	0.00	0.00	0.00	0.00	0.00	1.000*	1.000	4	0					
22 + 964.00	428.42	0.00	25.0	0.00	0.00	0.00	0.00	0.00	428.62	1.000*	1.000	4	0				
	2.07	0.00	22.6	2.58	2.94	1.04	1.99	0.00	31.06	1.000							
	0.65	0.00	25.0	0.00	0.00	0.00	0.00	0.00	1.000	1.000	4	0					
22 + 993.00	429.30	0.00	25.0	0.00	0.00	0.00	0.00	0.00	429.65	0.000	1.000	10	0				
	2.07	0.00	50.0	0.00	0.00	0.79	2.64	0.021	17.64	1.000							
	1.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	1.000							
22 + 998.00	429.69	0.00	25.0	0.00	0.00	0.00	0.00	0.00	429.71	0.218	1.000	9	0				
	1.25	0.00	22.0	3.41	4.19	2.25	0.56	0.000	1.46	1.000							
	0.10	0.00	25.0	0.00	0.00	0.00	0.00	0.00	1.000	1.000	9	0					
23 + 46.00	430.16	0.00	25.0	0.00	0.00	0.00	0.00	0.00	430.34	1.000	1.000	4	0				
	1.25	0.00	22.0	1.91	2.28	0.67	1.86	0.000	36.28	1.000							
	0.54	0.00	25.0	0.00	0.00	0.00	0.00	0.00	1.000	1.000	4	0					
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(Uw)																	
23 + 49.00	430.32	0.00	25.0	0.00	0.00	0.00	0.00	0.00	430.60	1.000	1.000	4	0				
	1.25	0.00	22.0	0.96	1.86	0.53	2.34	0.000	59.73	1.000							
	0.64	0.00	25.0	0.00	0.00	0.00	0.00	0.00	1.000	1.000	4	0					
23 + 52.00	430.58	0.00	25.0	0.00	0.00	0.00	0.00	0.00	430.61	0.376	1.000	0	0				
	1.25	0.00	22.0	2.94	3.47	1.49	0.84	0.000	4.46	1.000							
	0.81	0.00	25.0	0.00	0.00	0.00	0.00	0.00	1.000	1.000	0	0					
23 + 61.00	430.62	0.00	25.0	0.00	0.00	0.00	0.00	0.00	430.67	0.499	1.000	0	0				
	1.25	0.00	22.0	2.65	3.11	1.19	1.05	0.002	8.12	1.000							
	0.70	0.00	25.0	0.00	0.00	0.00	0.00	0.00	1.000	1.000	0	0					
23 + 73.00	430.75	0.00	25.0	0.00	0.00	0.00	0.00	0.00	431.03	1.000	1.000	4	0				
	1.25	0.00	50.0	0.96	1.86	0.53	2.34	0.000									

PROJEKT	K1-strieg	Station 0	+ 1.00	bis 0 + 23380.00	m	ERGEBNISSE											
ZUSTAND	Station 0	HQ 50 1st									SEITE				71		
VARIANTE	HQ 50 1st	Sterf0001															
DATEI	Sterf0001																
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	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/oo	ALPHAS						
22 + 707.00	424.02	0.18	25.0	3.74	3.79	1.15	0.15	0.000	424.02	0.094	1.036	0	0				
	3.14	2.96	22.0	14.19	15.05	11.69	0.25	0.000	0.19	1.013							
	1.64	0.00	25.0	0.00	0.00	0.00	0.00	0.000	1.013	1.013	0	0					
22 + 745.00	424.05	0.03	25.0	1.19	1.21	0.12	0.23	0.004	424.06	0.269	1.015	0	0				
	3.14	3.11	22.0	13.71	14.41	5.83	0.53	0.000	1.96	1.006							
	1.22	0.00	25.0	0.00	0.00	0.00	0.00	0.000	1.006	1.006	0	0					
22 + 764.00	424.52	0.00	22.7	0.00	0.00	0.00	0.00	0.441	424.57	0.000	1.000	30	5				
	3.14	2.73	22.0	0.00	0.00	0.79	3.48	0.000	158.55	1.000							
	1.45	0.00	23.6	0.00	0.00	0.00	0.00	0.000	1.000	1.000	30	5					
22 + 769.00	424.97	0.27	25.0	6.03	6.07	1.68	0.16	0.000	424.98	0.124	1.250	9	0				
	3.14	1.63	22.0	4.07	4.89	4.94	0.33	0.000	0.22	1.080							
	1.53	1.25	25.0	16.14	16.14	6.29	0.20	0.000	1.080	1.080	9	0					
22 + 793.00	424.98	0.15	25.0	2.65	2.67	0.48	0.31	0.005	425.00	0.421	1.503	0	0				
	3.14	2.67	22.0	4.07	4.89	3.75	0.71	0.000	1.50	1.185							
	1.24	0.32	25.0	16.14	16.14	1.57	0.20	0.000	1.185	1.185	0	0					
22 + 795.00	424.96	0.00	25.0	0.00	0.00	0.00	0.00	0.042	425.07	0.000	1.000	11	0				
	3.14	3.14	22.0	3.28	7.31	2.17	1.45	0.000	21.79	1.000							
	1.07	0.00	25.0	0.00	0.00	0.00	0.00	0.000	1.000	1.000	11	0					
22 + 797.00	425.07	0.00	25.0	0.00	0.00	0.00	0.00	0.000	425.10	0.575	1.439	9	0				
	3.14	2.38	22.0	4.15	4.63	2.53	0.94	0.000	4.13	1.152							
	1.11	0.76	25.0	16.14	16.14	1.94	0.39	0.000	1.152	1.152	9	0					
22 + 802.00	425.11	0.00	25.0	0.00	0.00	0.00	0.00	0.000	425.22	1.000	1.231	4	0				
	3.14	2.98	22.0	3.82	4.28	2.00	1.49	0.000	12.63	1.095							
	0.98	0.16	25.0	7.28	7.28	0.39	0.40	0.000	1.095	1.095	4	0					
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(Uw)																	
!!! Profilabstand zum Ow ueberpruefen !!!																	
22 + 867.00	426.47	0.19	25.0	3.96	3.97	0.35	0.55	0.000	426.58	1.000	1.355	4	0				
	3.14	2.73	22.0	2.92	3.32	1.73	1.57	0.000	12.14	1.133							
	0.84	0.22	25.0	4.04	4.05	0.39	0.57	0.000	1.133	1.133	4	0					

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

STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 3.06.2009

1.25 0.64 0.00 50.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 11.56 1.000
 ++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)
 !!i Profiltabstand zum OW ueberpruefen !!i ++++++

23 + 81.00 431.06 1.25 25.0 2.22 2.52 0.00 0.00 0.00 0.00 1.77 0.000 431.22 1.000 1.000 4 0
 1.25 0.49 0.00 25.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 35.38 1.000

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STATIONAERE WASSERSPIEGELLAGEN
 PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT Kl-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 50 1st
 DATEI Ster0001 SEITE 72

===== ERGEBNISSE =====
 STATION WSPLAGE/H ABFLUSS K-WERT BREITE UMFANG FLAECHE GESCHW HZV E-HOEH E FROUDE ALPHA KZW KZD
 ABFLUSS NN+m/m m3/s m0.53/s m m m2 m/s m m NN+m IE o/oo ALPHAS

23 + 128.00 432.20 0.00 25.0 2.22 2.52 0.00 0.00 0.00 0.00 1.77 0.000 432.36 1.000* 1.000 4 0
 1.25 0.49 0.00 25.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 35.39 1.000

23 + 130.00 432.39 DH 0.00 25.0 2.04 4.35 0.00 0.00 2.05 0.00 0.004 432.61 0.000 119.83 1.000 31 5
 1.25 0.56 0.00 25.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.000

23 + 132.00 432.71 0.04 25.0 2.40 2.79 0.81 0.11 0.36 0.79 0.000 432.74 0.416 1.150 9 0
 1.25 0.87 0.04 25.0 1.82 1.82 0.16 0.16 0.27 0.27 0.000 3.04 1.060

23 + 135.00 432.70 0.01 25.0 2.33 2.79 0.36 0.02 0.36 1.13 0.008 432.77 0.578 1.022 0 0
 1.25 0.71 0.00 25.0 0.13 0.13 0.00 0.00 0.00 1.13 0.00 9.24 1.009

23 + 157.00 433.02 0.00 25.0 2.29 2.29 0.00 0.00 0.00 1.86 0.000 433.20 1.000 1.000 4 0
 1.25 0.62 0.00 25.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 36.81 1.000

+++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++
 Seite 93

Ster0001.001

23 + 162.00 433.14 0.00 25.0 0.00 0.00 0.00 0.00 0.00 2.34 0.010 433.42 1.000 1.000 4 0
 1.25 0.64 0.00 50.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 11.56 1.000

23 + 165.00 433.68 0.00 25.0 2.60 2.84 0.00 0.00 0.00 1.68 0.000 433.83 1.000* 1.000 4 0
 1.25 0.51 0.00 25.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 34.61 1.000

23 + 214.00 433.98 0.00 25.0 4.00 4.43 0.00 0.00 0.00 0.72 0.000 434.01 0.354 1.000 0 0
 1.25 0.81 0.00 25.0 0.06 0.06 1.74 0.00 0.00 0.00 0.00 3.71 1.000

23 + 224.00 435.30 0.00 25.0 0.96 1.86 0.00 0.00 0.00 2.34 0.000 435.58 1.000 1.000 4 0
 1.25 0.64 0.00 50.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 11.56 1.000

+++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++
 23 + 228.00 435.58 0.02 25.0 1.84 12.99 0.14 0.15 0.33 0.000 435.58 0.208 1.045 0 0
 1.25 0.86 0.02 25.0 1.44 1.45 0.12 0.16 0.16 0.000 1.19 1.018

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

STATIONAERE WASSERSPIEGELLAGEN
 PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 3.06.2009

PROJEKT Kl-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 50 1st
 DATEI Ster0001 SEITE 73

===== ERGEBNISSE =====
 STATION WSPLAGE/H ABFLUSS K-WERT BREITE UMFANG FLAECHE GESCHW HZV E-HOEH E FROUDE ALPHA KZW KZD
 ABFLUSS NN+m/m m3/s m0.53/s m m m2 m/s m m NN+m IE o/oo ALPHAS

23 + 249.00 435.62 0.00 25.0 0.00 0.00 0.00 0.00 0.00 2.34 0.000 435.90 1.000 1.000 4 0
 1.25 0.64 0.00 50.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 11.56 1.000

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

