

 BERECHNUNG STATIONAERER WASSERSPIEGELLAGEN

WSPRLWA2009

DATUM : 22.06.2009
 STARTZEIT : 12h 30' 35"
 EINGABEDATEI : Stws0001.001
 ERGEBNISDATEI : Ster0001.001
 BEWUCHSSDATEI : Stbe0001.001
 QPLOTT-DATEI : Stqp0001.001
 PLOTT-DATEI : Stlp0001.001

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 : 22.06.2009

PROJEKT K1-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 10 1st
 DATEI Ster0001

SEITE 1

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FROUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ^{0.33} /s	m	m	m ²	m/s	m	NN+m	IE o/oo			
0 +	1.00	240.13	0.00	17.0	0.00	0.00	0.00	0.000	240.17	0.295	1.000	5	0
	14.04	1.19	0.00	22.0	17.01	15.77	0.89	0.000	240.17	2.00	1.000		
					0.00	0.00	0.00						
0 +	10.00	240.15	0.00	17.0	0.00	0.00	0.00	0.000	240.20	0.286	1.000	12	0
	14.04	1.21	0.00	22.0	16.19	19.71	0.89	0.000	240.20	2.17	1.000		
					0.00	0.00	0.00						

Seite 1

0 +	14.00	240.17	0.00	17.0	0.00	0.00	0.00	0.000	240.19	0.226	1.000	0	0
	14.04	1.29	0.00	22.0	20.24	21.57	19.95	0.000	240.19	1.13	1.000		
					0.00	0.00	0.00						
0 +	81.00	240.67	0.00	17.0	0.00	0.00	0.00	0.000	240.99	1.000	1.000	4	0
	14.03	0.87	0.00	20.3	8.52	9.11	5.55	0.000	240.99	29.90	1.000		
					0.00	0.00	0.00						

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

0 +	181.00	241.53	0.00	17.0	0.00	0.00	0.00	0.000	241.79	1.000	1.000	4	0
	13.63	0.67	0.00	22.0	11.62	11.96	6.04	0.000	241.79	26.21	1.000		
					0.00	0.00	0.00						
0 +	297.00	243.08	0.00	17.0	0.00	0.00	0.00	0.000	243.35	0.741	1.000	0	0
	13.63	1.56	0.00	22.0	6.11	7.01	5.95	0.000	243.35	13.48	1.000		
					0.00	0.00	0.00						
0 +	364.50	243.81	0.00	17.0	0.00	0.00	0.00	0.000	243.88	0.317	1.000	0	0
	13.63	2.01	0.00	22.0	7.57	9.37	11.27	0.000	243.88	2.36	1.000		
					0.00	0.00	0.00						
0 +	441.00	244.08	0.00	17.0	0.00	0.00	0.00	0.004	244.19	0.499	1.000	0	0
	13.63	1.12	0.00	22.0	10.16	10.79	9.18	0.004	244.19	5.66	1.000		
					0.00	0.00	0.00						
0 +	503.00	244.50	0.00	17.0	0.00	0.00	0.00	0.000	244.59	0.546	1.000	0	0
	13.63	1.01	0.00	22.0	16.08	16.64	10.07	0.000	244.59	7.40	1.000		
					0.00	0.00	0.00						
0 +	583.00	245.10	0.00	17.0	0.00	0.00	0.00	0.004	245.24	0.599	1.000	0	0
	13.63	0.96	0.00	22.0	17.0	11.11	8.37	0.004	245.24	8.63	1.000		
					0.00	0.00	0.00						

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PROJEKT K1-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 10 1st
 DATEI Ster0001

SEITE 2

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	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
0 + 689.00	245.87	0.38	17.0	21.16	21.18	1.75 *	0.22	0.000	245.94	0.648	1.243	0 0
13.63	1.12	13.25	22.0	13.89	14.36	10.79	1.23	0.000	245.94	4.56	1.104	0 0
0 + 796.00	246.27	0.00	17.0	0.00	0.00	0.00	0.00	0.000	246.32	0.341	1.000	0 0
13.63	1.28	0.00	17.0	12.70	13.50	12.75	1.07	0.000	246.32	2.55	1.000	0 0
0 + 891.00	246.54	0.00	17.0	0.00	0.00	0.00	0.00	0.002	246.62	0.406	1.000	0 0
13.63	1.47	0.00	17.0	11.39	12.27	10.94	1.25	0.000	246.62	3.73	1.000	0 0
0 + 990.00	247.01	0.00	17.0	0.00	0.00	0.00	0.00	0.003	247.12	0.517	1.000	0 0
13.63	1.31	0.00	17.0	10.82	11.61	9.16	1.49	0.000	247.12	6.28	1.000	0 0
0 + 998.00	246.98	0.00	17.0	0.00	0.00	0.00	0.00	0.028	247.23	0.706	1.000	31 5
13.63	1.09	0.00	17.0	6.05	7.72	6.13	2.22	0.000	247.23	13.91	1.000	0 0
1 + 6.00	247.17	0.00	17.0	9.43	9.94	7.92	1.72	0.000	247.32	0.600	1.000	0 0
13.63	1.26	0.00	17.0	0.00	0.00	0.00	0.00	0.000	247.32	8.29	1.000	0 0
1 + 25.00	247.33	0.00	17.0	0.00	0.00	0.00	0.00	0.000	247.45	0.511	1.000	0 0
13.63	1.36	0.00	17.0	9.88	10.43	8.95	1.52	0.000	247.45	5.88	1.000	0 0
1 + 96.00	247.71	0.00	17.0	0.00	0.00	0.00	0.00	0.000	247.77	0.375	1.000	0 0
13.63	1.12	0.00	17.0	12.85	13.51	12.00	1.14	0.000	247.77	3.12	1.000	0 0
1 + 166.00	248.09	0.00	17.0	0.00	0.00	0.00	0.00	0.016	248.23	0.637	1.000	0 0
13.63	0.90	0.00	17.0	11.13	11.56	8.04	1.70	0.000	248.23	9.64	1.000	0 0
1 + 222.20	248.61	0.00	17.0	0.00	0.00	0.00	0.00	0.000	248.75	0.606	1.000	0 0
13.63	0.93	0.00	17.0	11.24	11.60	8.34	1.63	0.000	248.75	8.57	1.000	0 0
1 + 226.00	248.68	0.00	17.0	0.00	0.00	0.00	0.00	0.000	248.77	0.514	1.060	0 0
13.63	1.08	0.18	17.0	12.49	12.73	10.08	1.33	0.000	248.77	5.02	1.026	0 0

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Seite 3

Zwackauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0
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 PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009
 PROJEKT K1-strieg
 ZUSTAND Station 0
 VARIANTE HQ 10 1st
 DATEI Ster0001

ERGEBNISSE
 SEITE 3

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	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
1 + 273.00	248.93	0.00	17.0	0.00	0.00	0.00	0.00	0.006	249.06	0.569	1.000	0 0
13.63	1.07	0.00	17.0	9.97	10.45	8.36	1.63	0.000	249.06	7.40	1.000	0 0
1 + 349.00	249.43	0.00	17.0	0.00	0.00	0.00	0.00	0.000	249.53	0.469	1.000	0 0
13.63	1.34	0.00	17.0	9.94	10.57	9.50	1.43	0.000	249.53	4.90	1.000	0 0
1 + 421.00	249.81	0.00	17.0	0.00	0.00	0.00	0.00	0.003	249.95	0.541	1.000	0 0
13.63	1.49	0.00	17.0	8.20	8.93	8.09	1.68	0.000	249.95	6.68	1.000	0 0
1 + 541.00	250.61	0.00	17.0	0.00	0.00	0.00	0.00	0.000	250.98	1.000	1.000	4 0
13.63	1.09	0.00	17.0	6.92	7.41	5.08	2.68	0.000	250.98	24.65	1.000	0 0

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

1 + 545.00	250.81	0.00	17.0	0.00	0.00	0.00	0.00	0.000	251.02	0.607	1.000	12 0
13.63	1.25	0.00	17.0	5.93	8.28	6.73	2.03	0.000	251.02	11.17	1.000	0 0
1 + 551.00	250.90	0.00	17.0	0.00	0.00	0.00	0.00	0.000	251.08	0.642	1.000	0 0
13.63	1.17	0.00	17.0	8.66	9.27	7.35	1.85	0.000	251.08	9.67	1.000	0 0
1 + 600.50	251.33	0.00	17.0	0.00	0.00	0.00	0.00	0.000	251.43	0.446	1.000	0 0
13.63	1.31	0.00	17.0	10.16	10.85	9.90	1.38	0.000	251.43	4.43	1.000	0 0
1 + 695.00	251.73	4.89	17.0	18.40	18.48	8.81	0.55	0.000	251.77	0.372	1.305	0 0
13.63	1.18	8.74	17.0	9.20	9.56	8.22	1.06	0.000	251.77	2.86	1.101	0 0

Seite 4

2 + 375.00	255.65	13.63	22.0	10.78	11.29	9.33	1.43	0.006	255.76	0.486	1.000	0	
13.63	1.29	0.00	17.0	0.00	0.00	0.00	0.00	0.00	5.31	1.000	0		
2 + 445.00	256.06	0.09	17.0	5.88	5.89	0.38	0.24	0.002	256.20	0.716	1.076	0	
13.63	1.30	0.00	17.0	0.00	0.00	0.00	0.00	0.00	7.45	1.035	0		
2 + 499.00	256.47	0.00	17.0	0.00	0.00	0.00	0.00	0.000	256.62	0.598	1.000	0	
13.63	1.32	0.00	17.0	0.00	9.33	7.91	1.72	0.000	8.23	1.000	0		
2 + 557.00	256.92	0.00	17.0	0.00	0.00	0.00	0.00	0.000	257.04	0.517	1.000	0	
13.63	1.33	0.00	17.0	9.58	10.21	8.79	1.55	0.000	6.07	1.000	0		
2 + 617.00	257.28	0.00	17.0	0.00	0.00	0.00	0.00	0.001	257.43	0.512	1.000	0	
13.63	1.25	0.00	17.0	0.00	0.00	0.00	0.00	0.000	6.85	1.000	0		
2 + 654.00	257.54	0.00	17.0	0.00	0.00	0.00	0.00	0.004	257.74	0.603	1.000	0	
13.63	1.52	0.00	17.0	6.19	7.70	6.86	1.99	0.000	9.52	1.000	0		
2 + 681.00	257.79	0.00	17.0	0.00	0.00	0.00	0.00	0.001	258.03	0.626	1.000	12	
13.63	1.35	0.00	22.0	0.00	0.00	0.00	0.00	0.000	11.82	1.000	0		
2 + 689.00	257.89	0.00	10.0	0.00	0.00	0.00	0.00	0.000	258.13	0.773	1.000	0	
13.63	1.03	0.00	10.0	7.83	8.93	6.29	2.17	0.000	15.51	1.000	0		
Ster0001.001													
ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH													
Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0													
STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009													
PROGRAMM WSPR2009 (C.) Knauf 2009													
PROJEKT K1-strieg													
ZUSTAND Station 0													
VARIANTE HO_10_1st													
DATEI Ster0001													
ERGEBNISSE													
STATION	WSP/AGE/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/o	ALPHAS		
2 + 774.70	258.85	13.63	22.0	9.44	10.41	10.55	1.29	0.000	258.94	0.390	1.000	0	
13.63	1.49	0.00	10.0	0.00	0.00	0.00	0.00	0.000	3.39	1.000	0		
Ster0001.001													
2 + 832.00	259.08	0.00	22.0	0.00	0.00	0.00	0.00	0.000	259.19	0.482	1.000	0	
13.63	1.28	0.00	10.0	0.00	0.00	0.00	0.00	0.001	5.19	1.000	0		
2 + 881.00	259.33	0.00	22.0	0.00	0.00	0.00	0.00	0.000	259.42	0.427	1.000	0	
13.63	1.35	0.00	10.0	0.00	0.00	0.00	0.00	0.000	4.10	1.000	0		
2 + 974.00	260.12	0.00	22.0	0.18	0.19	0.00	0.13	0.000	260.40	1.000	1.001	4	
13.63	1.04	0.00	10.0	9.85	10.19	5.74	2.37	0.000	24.97	1.001	0		
+++++++ Engstelle mit Flieswechsel, Energieminimum > EH(UW) ++++++													
3 + 18.00	260.69	0.11	10.0	2.34	2.38	0.37	0.30	0.000	260.86	0.720	1.078	0	
13.63	1.09	0.00	10.0	9.32	9.80	7.34	1.84	0.000	10.30	1.035	0		
3 + 96.00	261.37	1.99	10.0	7.87	8.89	4.80	0.41	0.000	261.41	0.397	1.933	0	
13.63	0.85	2.53	10.0	17.29	17.32	8.17	1.12	0.000	3.91	1.291	0		
3 + 134.00	261.49	0.94	10.0	4.27	4.42	2.59	0.36	0.002	261.55	0.374	1.331	0	
13.63	0.97	0.35	10.0	13.19	13.21	11.68	1.06	0.000	2.72	1.128	0		
3 + 209.50	261.76	0.00	10.0	0.00	0.00	0.00	0.00	0.014	261.86	0.490	1.000	0	
13.63	1.23	0.00	10.0	0.00	0.00	0.00	0.00	0.000	5.42	1.000	0		
3 + 297.00	262.14	0.52	10.0	15.52	15.52	3.36	0.16	0.000	262.18	0.415	1.436	0	
13.63	1.60	0.02	10.0	11.88	12.42	13.24	0.99	0.000	1.85	1.181	0		
3 + 390.00	262.33	0.00	10.0	0.00	0.00	0.00	0.00	0.006	262.39	0.358	1.011	0	
13.63	1.46	0.01	10.0	0.65	0.68	11.73	1.16	0.000	2.62	1.005	0		
ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH													
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PROJEKT K1-strieg													

Seite 7

Seite 8

ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 10 1st
 DATEI Ster0001

Ster0001.001

SEITE 7

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	m ²	m/s	m	NN+m	IE o/oo	ALPHAS		
3 + 477.00	262.59	0.16	10.0	8.68	8.68	1.05	0.15	0.000	262.66	0.509	1.161	0	0
13.63	1.41	13.47	22.0	11.81	12.34	10.97	1.23	0.000	262.66	0.509	1.161	0	0
		0.00	10.0	0.00	0.00	0.00	0.00			3.64	1.073		
3 + 481.00	262.57	0.00	10.0	0.00	0.00	0.00	0.00	0.009	262.69	0.441	1.000	31	5
13.63	1.38	13.63	22.0	6.86	9.02	8.73	1.56			5.25	1.000		
		0.00	10.0	0.00	0.00	0.00	0.00						
3 + 485.00	262.60	0.00	10.0	0.00	0.00	0.00	0.00	0.000	262.71	0.461	1.000	0	0
13.63	1.37	13.63	22.0	9.50	10.21	9.46	1.44			4.75	1.000		
		0.00	10.0	0.00	0.00	0.00	0.00						
3 + 488.00	262.59	0.00	10.0	0.00	0.00	0.00	0.00	0.003	262.73	0.569	1.000	0	0
13.63	1.22	13.63	22.0	9.01	9.63	8.08	1.69			7.44	1.000		
		0.00	10.0	0.00	0.00	0.00	0.00						
3 + 565.00	263.25	0.00	10.0	0.00	0.00	0.00	0.00	0.008	263.47	0.697	1.000	0	0
13.63	1.53	13.63	22.0	7.18	7.90	6.54	2.08			11.53	1.000		
		0.00	10.0	0.00	0.00	0.00	0.00						
3 + 661.00	264.05	0.50	10.0	19.11	19.13	4.07	0.12	0.000	264.09	0.357	1.463	0	0
13.63	1.88	13.13	22.0	10.51	11.39	14.60	0.90			1.20	1.193		
		0.00	10.0	0.30	0.30	0.01	0.02						
3 + 664.00	264.02	0.00	10.0	0.00	0.00	0.00	0.00	0.029	264.14	0.000	1.000	11	0
13.63	1.84	13.63	22.0	6.41	7.00	9.16	1.49			9.10	1.000		
		0.00	10.0	0.00	0.00	0.00	0.00						
3 + 667.00	264.08	0.00	10.0	0.00	0.00	0.00	0.00	0.000	264.16	0.369	1.000	9	0
13.63	1.96	13.63	22.0	7.83	10.14	10.28	1.33			3.57	1.000		
		0.00	10.0	0.00	0.00	0.00	0.00						
3 + 672.00	264.10	0.00	10.0	0.00	0.00	0.00	0.00	0.000	264.18	0.324	1.000	0	0
13.63	2.10	13.63	22.0	8.22	10.69	11.41	1.20			2.71	1.000		
		0.00	10.0	0.00	0.00	0.00	0.00						
3 + 694.00	264.16	0.00	10.0	0.00	0.00	0.00	0.00	0.000	264.23	0.301	1.000	0	0
13.63	2.02	13.63	22.0	8.07	9.64	11.90	1.15			2.05	1.000		
		0.00	10.0	0.00	0.00	0.00	0.00						

Seite 9

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 : 22.06.2009
 PROJEKT Kl-strieg Station 0 + 1.00 bis 0 + 23380.00 m
 ZUSTAND HQ 10 1st
 VARIANTE Ster0001
 DATEI Ster0001

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	m ²	m/s	m	NN+m	IE o/oo	ALPHAS		
3 + 716.00	264.21	0.00	10.0	0.00	0.00	0.00	0.00	0.000	264.28	0.323	1.000	0	0
13.63	1.93	13.63	22.0	7.94	10.01	11.29	1.21			2.57	1.000		
		0.00	10.0	0.00	0.00	0.00	0.00						
3 + 780.00	264.37	0.00	10.0	0.00	0.00	0.00	0.00	0.000	264.39	0.206	1.000	0	0
13.63	1.61	13.63	22.0	21.10	21.83	21.09	0.65			0.90	1.000		
		0.00	10.0	0.00	0.00	0.00	0.00						
3 + 869.00	264.62	0.00	10.0	0.00	0.00	0.00	0.00	0.040	264.74	0.520	1.000	0	0
13.63	1.18	13.63	22.0	10.09	10.61	8.91	1.53			6.10	1.000		
		0.00	10.0	0.00	0.00	0.00	0.00						
3 + 955.00	265.22	0.00	10.0	0.00	0.00	0.00	0.00	0.001	265.36	0.601	1.000	0	0
13.31	1.13	13.31	22.0	10.27	10.68	8.01	1.66			8.39	1.000		
		0.00	10.0	0.00	0.00	0.00	0.00						
3 + 984.00	265.49	0.00	17.0	0.00	0.00	0.00	0.00	0.001	265.66	0.704	1.000	0	0
11.92	0.98	11.92	22.0	9.66	10.00	6.56	1.82			11.96	1.000		
		0.00	17.0	0.00	0.00	0.00	0.00						
3 + 985.00	265.54	0.00	17.0	0.00	0.00	0.00	0.00	0.000	265.87	1.000	1.000	4	5
11.92	1.02	11.92	22.0	6.89	7.77	4.64	2.57			27.15	1.000		
		0.00	17.0	0.00	0.00	0.00	0.00						
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++													
3 + 986.00	265.78	0.00	17.0	0.00	0.00	0.00	0.00	0.000	265.88	0.458	1.000	0	0
11.92	1.25	11.92	22.0	9.32	10.36	8.63	1.38			5.03	1.000		
		0.00	17.0	0.00	0.00	0.00	0.00						
4 + 59.00	266.49	0.00	17.0	0.00	0.00	0.00	0.00	0.000	266.81	1.000	1.000	4	0
		11.92	22.0	7.26	7.69	4.72	2.52						

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 Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0
 STATIONAERE WASSERSPIEGELLAGEN
 PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009
 PROJEKT Kl-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 10 1st
 DATEI Ster0001

SEITE 12

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	FROUDE IE o/oo	ALPHA	KZW	KZD
			K-WERT	BREITE	UMFANG											
6 + 110.00	281.31	0.00	10.0	0.00	0.00	10.0	0.00	0.00	0.00	0.000	281.37	0.262	1.000	12	0	
11.54	1.44	0.00	18.0	7.28	3.05	11.30	1.02	0.00	0.00			0.56	1.000			
6 + 122.00	281.32	0.00	10.0	0.00	0.00	10.0	0.00	0.00	0.00	0.002	281.39	0.323	1.000	0	0	
11.54	1.95	0.00	18.0	6.86	8.65	9.62	1.20	0.00	0.00			3.85	1.000			
6 + 230.00	281.69	0.00	10.0	0.00	0.00	10.0	0.00	0.00	0.00	0.002	281.80	0.452	1.000	0	0	
11.54	1.48	0.00	25.0	8.20	8.93	8.17	1.41	0.00	0.00			3.59	1.000			
6 + 343.00	282.14	0.00	10.0	0.00	0.00	10.0	0.00	0.00	0.00	0.000	282.24	0.488	1.000	0	0	
11.54	1.04	0.00	25.0	10.05	10.63	8.31	1.39	0.00	0.00			4.29	1.000			
6 + 410.00	282.52	0.00	10.0	0.00	0.00	10.0	0.00	0.00	0.00	0.013	282.71	0.699	1.000	0	0	
11.54	1.01	0.00	25.0	8.05	8.62	6.07	1.90	0.00	0.00			9.22	1.000			
6 + 505.00	283.27	0.00	10.0	0.00	0.00	10.0	0.00	0.00	0.07	0.000	283.39	0.548	1.002	0	0	
11.54	1.18	0.00	10.0	9.09	9.56	7.51	1.54	0.04	0.04			5.21	1.001			
6 + 589.00	283.77	0.00	10.0	0.00	0.00	10.0	0.00	0.00	0.00	0.003	283.92	0.639	1.000	0	0	
11.54	1.16	0.00	25.0	8.46	8.90	6.55	1.76	0.00	0.00			7.47	1.000			
6 + 650.00	284.21	0.00	10.0	0.00	0.00	10.0	0.00	0.00	0.00	0.000	284.33	0.561	1.000	0	0	
11.54	1.05	0.00	25.0	10.31	10.66	7.63	1.51	0.00	0.00			5.70	1.000			

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 STATIONAERE WASSERSPIEGELLAGEN
 PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009
 PROJEKT Kl-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 10 1st
 DATEI Ster0001

SEITE 13

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	FROUDE IE o/oo	ALPHA	KZW	KZD
			K-WERT	BREITE	UMFANG											
6 + 731.00	284.68	0.01	10.0	0.19	0.48	0.04	0.16	0.00	0.00	0.000	284.81	0.586	1.010	0	0	
11.54	0.91	0.00	10.0	10.37	10.58	7.46	1.55	0.00	0.00			6.10	1.005			
6 + 740.00	284.75	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.000	285.01	1.000	1.000	4	0	
11.54	0.90	0.00	22.0	9.78	10.07	5.10	2.26	0.00	0.00			26.16	1.000			

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

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 STATIONAERE WASSERSPIEGELLAGEN
 PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009
 PROJEKT Kl-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 10 1st
 DATEI Ster0001

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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	FROUDE IE o/oo	ALPHA	KZW	KZD		
6 + 757.00	285.01	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.000	285.11	0.497	1.000	0	0
11.54	1.05	0.00	10.0	10.34	10.88	8.28	1.39	0.00	0.00			5.78	1.000		
6 + 834.00	285.47	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.000	285.77	1.000	1.000	4	0
11.54	0.98	0.00	22.0	8.02	8.31	4.78	2.42	0.00	0.00			25.25	1.000		

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

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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	FROUDE IE o/oo	ALPHA	KZW	KZD
6 + 918.00	286.22	0.49	10.0	4.31	4.35	1.29	0.38	0.000	286.37	0.695	1.425	0	0
11.54	1.15	0.22	10.0	6.38	6.59	6.11	1.77	0.000	286.40	0.613	1.000	31	5
6 + 920.00	286.23	0.00	10.0	7.23	8.26	6.39	1.81	0.007	286.40	0.613	1.000	31	5
11.54	1.12	0.00	10.0	7.23	8.26	6.39	1.81	0.007	286.40	0.613	1.000	31	5
6 + 922.00	286.30	0.00	10.0	4.63	5.76	3.97	2.90	0.000	286.73	1.000	1.000	4	0
11.54	1.15	0.22	10.0	6.38	6.59	6.11	1.77	0.000	286.37	0.695	1.425	0	0

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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		
Stero001.001													
11.54	1.09	0.00	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.60	1.000
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++													
6 + 935.00	286.66	0.00	10.0	0.00	0.00	0.00	0.00	0.000	286.85	0.555	1.000	0	0
11.54	1.52	0.00	22.0	5.03	6.73	6.05	1.91	0.00	8.64	1.000			
6 + 939.00	286.71	0.00	10.0	0.00	0.00	0.00	0.00	0.000	286.87	0.502	1.000	0	0
11.54	1.61	0.00	22.0	5.11	6.93	6.51	1.77	0.00	7.07	1.000			
6 + 949.00	286.78	0.00	10.0	0.00	0.00	0.00	0.00	0.001	286.95	0.578	1.199	31	5
11.54	1.93	0.00	22.0	3.81	6.90	6.12	1.83	0.00	8.16	1.086			
6 + 959.00	286.87	0.00	10.0	0.00	0.00	0.00	0.00	0.000	287.02	0.558	1.205	0	0
11.54	1.75	0.00	22.0	4.23	6.64	6.38	1.76	0.00	6.74	1.088			
6 + 966.00	286.92	0.00	10.0	0.00	0.00	0.00	0.00	0.000	287.07	0.570	1.190	0	0
11.54	1.73	0.00	22.0	4.61	6.73	6.43	1.75	0.00	6.71	1.082			
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STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009													
PROJEKT K1-strieg + 1.00 bis 0 + 23380.00 m													
ZUSTAND Station 0													
VARIANTE HQ 10 1st													
DATEI Ster0001													
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Stero001.001													
7 + 161.00	287.77	0.19	10.0	11.13	11.13	1.49	0.13	0.000	287.83	0.457	1.246	0	0
11.54	1.56	0.00	22.0	9.40	10.02	10.35	1.10	0.00	2.38	1.109			
7 + 253.00	288.00	0.00	10.0	0.00	0.00	0.00	0.00	0.001	288.07	0.357	1.000	0	0
11.54	1.34	0.00	22.0	10.70	11.29	10.44	1.11	0.00	2.80	1.000			
7 + 364.00	288.40	0.00	10.0	0.00	0.00	0.00	0.00	0.000	288.48	0.610	1.492	0	0
11.54	1.18	0.00	22.0	8.89	9.48	7.95	1.34	0.00	4.70	1.193			
7 + 567.50	289.50	0.00	10.0	0.00	0.00	0.00	0.00	0.000	289.59	0.629	1.359	0	0
11.54	1.15	0.00	22.0	8.88	14.94	2.95	0.29	0.00	4.96	1.140			
7 + 458.00	288.88	0.00	10.0	0.00	0.00	0.00	0.00	0.008	288.99	0.507	1.000	0	0
11.54	1.14	0.00	22.0	9.24	9.80	7.87	1.47	0.00	5.94	1.000			
7 + 571.00	289.49	0.00	10.0	0.00	0.00	0.00	0.00	0.018	289.64	0.663	1.000	31	5
11.54	1.12	0.00	22.0	9.92	10.32	6.74	1.71	0.00	10.69	1.000			
7 + 574.50	289.45	0.00	10.0	0.00	0.00	0.00	0.00	0.015	289.71	0.804	1.000	0	0
11.54	1.02	0.00	22.0	6.36	7.09	5.11	2.26	0.00	16.26	1.000			
7 + 577.00	289.49	0.00	10.0	0.00	0.00	0.00	0.00	0.000	289.75	0.814	1.000	0	0
11.54	1.01	0.00	22.0	6.35	7.07	5.07	2.28	0.00	16.70	1.000			
7 + 587.00	289.76	0.00	10.0	0.00	0.00	0.00	0.00	0.000	289.86	0.382	1.000	12	0
11.54	1.85	0.00	22.0	6.46	8.89	8.44	1.37	0.00	4.14	1.000			

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STATIONAERE WASSERSPIEGELLAGEN
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009
PROJEKT K1-strieg
ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

ERGEBNISSE

SEITE 15

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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-HOEH NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
7 + 596.00	289.76	0.00	10.0	0.00	0.00	0.00	0.00	0.007	289.92	0.516	1.000	0 0
	11.54	11.54	22.0	5.75	7.82	6.65	1.74	0.00	0.00	7.74	1.000	0 0
7 + 675.00	290.45	0.00	10.0	0.00	0.00	0.00	0.00	0.004	290.66	0.652	1.000	0 0
	11.54	11.54	22.0	5.82	6.91	5.71	2.02	0.00	10.90	1.000	1.000	0 0
7 + 744.00	291.08	0.00	10.0	0.00	0.00	0.00	0.00	0.000	291.12	0.312	1.000	0 0
	11.43	11.43	22.0	13.66	15.25	12.32	0.93	0.000	2.36	1.000	1.000	0 0
7 + 778.00	291.16	0.00	10.0	0.00	0.00	0.00	0.00	0.000	291.21	0.329	1.000	0 0
	10.82	10.82	22.0	12.24	13.73	11.05	0.98	0.000	2.65	1.000	1.000	0 0
7 + 784.00	291.18	0.00	10.0	0.00	0.00	0.00	0.00	0.000	291.22	0.000	1.000	31 5
	10.82	10.82	40.0	14.24	29.22	12.03	0.90	0.000	1.65	1.000	1.000	0 0
7 + 790.00	291.20	0.00	10.0	0.00	0.00	0.00	0.00	0.000	291.23	0.296	1.000	9 0
	10.82	10.82	40.0	14.34	15.10	12.51	0.00	0.000	0.60	1.000	1.000	0 0
7 + 795.00	291.19	0.00	10.0	0.00	0.00	0.00	0.00	0.001	291.24	0.314	1.000	31 5
	10.82	10.82	40.0	10.72	12.16	10.90	0.99	0.000	0.71	1.000	1.000	0 0
7 + 801.00	291.17	0.00	10.0	0.00	0.00	0.00	0.00	0.006	291.26	0.447	1.000	0 0
	10.82	10.82	40.0	9.18	9.79	8.19	1.32	0.000	1.39	1.000	1.000	0 0
7 + 852.00	291.21	0.00	10.0	0.00	0.00	0.00	0.00	0.032	291.44	0.737	1.000	0 0
	10.82	10.82	40.0	6.06	7.02	5.11	2.12	0.000	4.29	1.000	1.000	0 0
7 + 900.00	291.43	0.00	10.0	0.00	0.00	0.00	0.00	0.000	291.62	0.693	1.000	0 0
	10.82	10.82	40.0	6.97	7.59	5.58	1.94	0.000	3.53	1.000	1.000	0 0
7 + 934.00	291.60	0.00	10.0	0.00	0.00	0.00	0.00	0.000	291.70	0.547	1.042	0 0
	10.82	10.82	40.0	7.67	8.42	7.58	1.43	0.000	1.46	1.020	1.020	0 0

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

STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Kauf 2009 DATUM : 22.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0
VARIANTE HQ 10 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-HOEH NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
7 + 937.00	291.59	0.00	10.0	0.00	0.00	0.00	0.00	0.001	291.71	0.465	1.000	11 0
	10.82	10.82	40.0	6.34	8.17	7.05	1.54	0.000	1.79	1.000	1.000	0 0
7 + 941.00	291.61	0.00	10.0	0.00	0.00	0.00	0.00	0.000	291.71	0.477	1.000	0 0
	10.82	10.82	40.0	8.26	9.08	7.57	1.43	0.000	1.63	1.000	1.000	0 0
7 + 948.00	291.63	0.00	10.0	0.00	0.00	0.00	0.00	0.000	291.72	0.433	1.000	0 0
	10.82	10.82	40.0	8.53	9.38	8.15	1.33	0.000	1.33	1.000	1.000	0 0
7 + 987.00	291.66	0.00	10.0	0.00	0.00	0.00	0.00	0.005	291.80	0.570	1.000	0 0
	10.82	10.82	40.0	7.81	8.36	6.59	1.64	0.000	2.38	1.000	1.000	0 0
7 + 990.00	291.69	0.00	10.0	0.00	0.00	0.00	0.00	0.000	291.80	0.431	1.000	31 5
	10.82	10.82	40.0	6.05	8.25	7.30	1.48	0.000	1.61	1.000	1.000	0 0
7 + 993.00	291.71	0.00	10.0	0.00	0.00	0.00	0.00	0.000	291.80	0.375	1.000	0 0
	10.82	10.82	40.0	6.28	8.48	8.10	1.34	0.000	1.18	1.000	1.000	0 0
8 + 27.00	291.74	0.00	10.0	0.00	0.00	0.00	0.00	0.001	291.85	0.419	1.000	0 0
	10.82	10.82	40.0	6.27	8.30	7.53	1.44	0.000	1.47	1.000	1.000	0 0
8 + 34.00	291.73	0.00	10.0	0.00	0.00	0.00	0.00	0.003	291.87	0.520	1.000	31 5
	10.82	10.82	40.0	6.24	7.95	6.51	1.66	0.000	2.26	1.000	1.000	0 0

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8 +	41.00	291.74	10.82	40.0	6.07	7.89	6.43	1.68	0.000	291.89	0.522	1.000	0
	10.82	1.31	0.00	10.0	0.00	0.00	0.00	0.00		2.33		1.000	0
8 +	89.00	291.85	10.82	40.0	6.06	7.70	5.85	1.85	0.001	292.02	0.602	1.000	0
	10.82	1.22	0.00	10.0	0.00	0.00	0.00	0.00		3.09		1.000	0
8 +	95.00	291.87	10.82	40.0	6.25	7.93	6.07	1.78	0.000	292.04	0.577	1.000	31
	10.82	1.22	0.00	10.0	0.00	0.00	0.00	0.00		2.83		1.000	5

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

SEITE 17

ERGEBNISSE

STATION ABFLUSS	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-HOEH NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
8 +	101.00	291.89	10.82	40.0	6.20	8.17	5.93	1.83	0.000	292.06	0.597	1.000	0
	10.82	1.32	0.00	10.0	0.00	0.00	0.00	0.00		3.20		1.000	0
8 +	150.00	292.04	10.82	40.0	5.94	7.75	6.00	1.80	0.000	292.21	0.573	1.000	0
	10.82	1.33	0.00	10.0	0.00	0.00	0.00	0.00		2.87		1.000	0
8 +	206.00	292.22	10.82	40.0	6.44	8.32	7.16	1.51	0.000	292.33	0.458	1.000	0
	10.82	1.24	0.00	10.0	0.00	0.00	0.00	0.00		1.75		1.000	0
8 +	243.00	292.28	10.82	40.0	6.65	8.36	6.79	1.59	0.000	292.41	0.504	1.000	0
	10.82	1.14	0.00	10.0	0.00	0.00	0.00	0.00		2.10		1.000	0
8 +	244.00	292.28	10.82	40.0	6.65	8.35	6.77	1.60	0.000	292.41	0.506	1.000	31
	10.82	1.14	0.00	10.0	0.00	0.00	0.00	0.00		2.11		1.000	5

Seite 21

STATION ABFLUSS	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-HOEH NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
8 +	245.00	292.29	10.82	40.0	6.87	8.45	6.97	1.55	0.000	292.41	0.492	1.000	0
	10.82	1.16	0.00	10.0	0.00	0.00	0.00	0.00		1.94		1.000	0
8 +	253.00	292.28	10.82	40.0	6.22	8.01	6.17	1.76	0.002	292.44	0.563	1.000	0
	10.82	1.23	0.00	10.0	0.00	0.00	0.00	0.00		3.15		1.000	0
8 +	254.00	292.28	10.82	40.0	6.22	8.04	6.25	1.73	0.000	292.43	0.552	1.000	31
	10.82	1.24	0.00	10.0	0.00	0.00	0.00	0.00		2.62		1.000	5
8 +	255.00	292.28	10.82	40.0	6.22	8.05	6.29	1.72	0.000	292.44	0.546	1.000	0
	10.82	1.25	0.00	10.0	0.00	0.00	0.00	0.00		2.96		1.000	0
8 +	274.00	292.31	10.82	40.0	5.22	7.04	5.36	2.02	0.005	292.52	0.636	1.000	0
	10.82	1.37	0.00	10.0	0.00	0.00	0.00	0.00		4.69		1.000	0
8 +	275.00	292.35	10.82	40.0	5.23	7.14	5.61	1.93	0.000	292.54	0.595	1.000	31
	10.82	1.42	0.00	10.0	0.00	0.00	0.00	0.00		5.136		1.000	5

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

SEITE 18

ERGEBNISSE

STATION ABFLUSS	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-HOEH NN+m	FRUDE IE o/oo	ALPHA	KZW	KZD
8 +	276.00	292.40	10.82	40.0	5.24	7.23	5.84	1.85	0.000	292.57	0.561	1.000	0
	10.82	1.46	0.00	10.0	0.00	0.00	0.00	0.00		5.64		1.000	0
8 +	300.00	292.51	10.82	40.0	5.50	7.57	6.02	1.80	0.000	292.68	0.549	1.000	0
	10.82	1.48	0.00	10.0	0.00	0.00	0.00	0.00		2.74		1.000	0

Seite 22

STATION	WSPLAGE/H NN+M/m	ABFLUSS m³/s	K-WERT m³/0.33/s	BREITTE m	UMFANG m	FLÄCHE m²	GESCHW m/s	HZV m	E-HÖHE NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
8 + 309.00	292.54	10.82	40.0	5.56	7.64	6.05	1.79	0.000	292.70	0.548	1.000	0	0
10.82	1.48	0.00	10.0	0.00	0.00	0.00	0.00			2.73	1.000		
8 + 341.00	292.61	10.82	40.0	0.00	0.00	0.00	0.00	0.002	292.81	0.635	1.000	0	0
10.82	1.38	0.00	10.0	0.00	0.00	0.00	0.00			3.67	1.000		
8 + 347.00	292.73	10.82	40.0	0.00	0.00	0.00	0.00	0.000	292.82	0.402	1.000	11	0
10.82	1.47	0.00	10.0	0.00	0.00	0.00	0.00			1.35	1.000		
8 + 353.00	292.73	10.82	40.0	0.00	0.00	0.00	0.00	0.001	292.84	0.458	1.000	0	0
10.82	1.45	0.00	10.0	0.00	0.00	0.00	0.00			1.75	1.000		
8 + 357.00	292.74	10.82	40.0	0.00	0.00	0.00	0.00	0.000	292.84	0.460	1.000	0	0
10.82	1.44	0.00	10.0	0.00	0.00	0.00	0.00			1.77	1.000		
8 + 398.00	292.80	10.82	40.0	0.00	0.00	0.00	0.00	0.023	293.03	0.816	1.000	0	0
10.82	1.12	0.00	10.0	0.00	0.00	0.00	0.00			5.78	1.000		
8 + 402.00	292.93	10.82	40.0	0.00	0.00	0.00	0.00	0.000	293.04	0.442	1.000	11	0
10.82	1.22	0.00	10.0	0.00	0.00	0.00	0.00			1.56	1.000		
8 + 406.00	292.91	10.82	40.0	0.00	0.00	0.00	0.00	0.003	293.05	0.556	1.000	0	0
10.82	1.25	0.00	10.0	0.00	0.00	0.00	0.00			2.50	1.000		
8 + 410.00	292.94	10.82	40.0	0.00	0.00	0.00	0.00	0.000	293.06	0.494	1.000	0	0
10.82	1.32	0.00	10.0	0.00	0.00	0.00	0.00			1.97	1.000		

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STATIONAERE WASSERSPIEGELLAGEN
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009

PROJEKT K1-Strieg
ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

ERGEBNISSE
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SEITE 19

Seite 23

STATION	WSPLAGE/H NN+M/m	ABFLUSS m³/s	K-WERT m³/0.33/s	BREITTE m	UMFANG m	FLÄCHE m²	GESCHW m/s	HZV m	E-HÖHE NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
8 + 459.00	293.44	10.82	40.0	0.00	0.00	0.00	0.00	0.000	293.78	1.000	1.000	4	0
10.82	0.88	0.00	10.0	0.00	0.00	0.00	0.00			8.40	1.000		

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iiii Profilaustand zum Uw ueberpruefen iiii

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8 + 511.00	293.94	10.82	40.0	0.00	0.00	0.00	0.00	0.000	294.26	1.000	1.000	4	0
10.82	0.95	0.00	10.0	0.00	0.00	0.00	0.00			9.19	1.000		
8 + 560.00	294.32	10.82	40.0	0.00	0.00	0.00	0.00	0.000	294.56	0.823	1.000	0	0
10.82	1.03	0.00	10.0	0.00	0.00	0.00	0.00			6.12	1.000		
8 + 572.00	294.34	10.82	40.0	0.00	0.00	0.00	0.00	0.004	294.66	0.941	1.000	31	5
10.82	0.99	0.00	10.0	0.00	0.00	0.00	0.00			8.22	1.000		
8 + 578.00	294.50	10.82	40.0	0.00	0.00	0.00	0.00	0.000	294.69	0.648	1.000	0	0
10.82	1.32	0.00	10.0	0.00	0.00	0.00	0.00			3.79	1.000		
8 + 604.00	294.62	10.82	40.0	0.00	0.00	0.00	0.00	0.000	294.77	0.565	1.000	0	0
10.82	1.40	0.00	10.0	0.00	0.00	0.00	0.00			2.86	1.000		
8 + 605.00	294.63	10.82	40.0	0.00	0.00	0.00	0.00	0.000	294.78	0.538	1.000	11	0
10.82	1.41	0.00	10.0	0.00	0.00	0.00	0.00			2.52	1.000		
8 + 606.00	294.62	10.82	40.0	0.00	0.00	0.00	0.00	0.000	294.78	0.562	1.000	0	0
10.82	1.41	0.00	10.0	0.00	0.00	0.00	0.00			2.47	1.000		
8 + 610.00	294.63	10.82	40.0	0.00	0.00	0.00	0.00	0.000	294.79	0.558	1.000	0	0
10.82	1.41	0.00	10.0	0.00	0.00	0.00	0.00			2.79	1.000		
8 + 624.00	294.67	10.82	40.0	0.00	0.00	0.00	0.00	0.000	294.83	0.544	1.000	0	0
10.82	1.39	0.00	10.0	0.00	0.00	0.00	0.00			2.69	1.000		

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 22.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

SEITE 20

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	KZW	KZD
8 + 625.00	294.65	0.00	10.0	0.00	0.00	0.00	0.00	0.002	294.84	0.635	1.000	11	0
10.82	1.29	0.00	40.0	5.93	7.87	5.60	1.93	0.00	0.00	3.68	1.000		
8 + 626.00	294.65	0.00	10.0	0.00	0.00	0.00	0.00	0.000	294.84	0.641	1.000	0	0
10.82	1.28	0.00	40.0	5.93	7.85	5.57	1.94	0.00	0.00	3.74	1.000		
8 + 630.00	294.67	0.00	10.0	0.00	0.00	0.00	0.00	0.000	294.85	0.625	1.000	0	0
10.82	1.27	0.00	40.0	5.97	7.84	5.67	1.91	0.00	0.00	3.50	1.000		
8 + 631.00	294.67	0.00	10.0	0.00	0.00	0.00	0.00	0.000	294.86	0.631	1.000	11	0
10.82	1.26	0.00	40.0	5.98	7.83	5.64	1.92	0.00	0.00	3.56	1.000		
8 + 632.00	294.67	0.00	10.0	0.00	0.00	0.00	0.00	0.000	294.86	0.631	1.000	0	0
10.82	1.26	0.00	40.0	5.97	7.82	5.64	1.92	0.00	0.00	3.56	1.000		
8 + 643.00	294.73	0.00	10.0	0.00	0.00	0.00	0.00	0.000	294.89	0.574	1.000	0	0
10.82	1.28	0.00	40.0	6.04	7.99	6.03	1.79	0.00	0.00	2.93	1.000		
8 + 644.00	294.75	0.00	10.0	0.00	0.00	0.00	0.00	0.000	294.90	0.518	1.000	11	0
10.82	1.30	0.00	40.0	6.05	7.90	6.46	1.68	0.00	0.00	2.30	1.000		
8 + 645.00	294.73	0.00	10.0	0.00	0.00	0.00	0.00	0.001	294.90	0.575	1.000	0	0
10.82	1.27	0.00	40.0	6.04	7.99	6.02	1.80	0.00	0.00	2.94	1.000		
8 + 659.00	294.78	0.00	10.0	0.00	0.00	0.00	0.00	0.000	294.94	0.571	1.000	0	0
10.82	1.20	0.00	40.0	5.91	8.06	6.01	1.80	0.00	0.00	3.00	1.000		

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009

DATUM : 22.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

SEITE 21

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	KZW	KZD
8 + 680.00	294.84	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.01	0.574	1.000	0	0
10.82	1.21	0.00	40.0	5.90	7.85	5.98	1.81	0.00	0.00	2.95	1.000		
8 + 687.00	294.87	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.02	0.553	1.000	0	0
10.82	1.24	0.00	40.0	6.46	8.48	6.32	1.71	0.00	0.00	2.71	1.000		
8 + 688.00	294.88	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.03	0.551	1.000	11	0
10.82	1.24	0.00	40.0	6.45	8.48	6.33	1.71	0.00	0.00	2.70	1.000		
8 + 689.00	294.88	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.03	0.552	1.000	0	0
10.82	1.24	0.00	40.0	6.46	8.48	6.32	1.71	0.00	0.00	2.70	1.000		
8 + 711.00	294.95	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.08	0.517	1.000	0	0
10.82	1.23	0.00	40.0	7.10	8.81	6.82	1.59	0.00	0.00	2.21	1.000		
8 + 718.00	294.96	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.10	0.524	1.000	11	0
10.82	1.22	0.00	40.0	7.11	8.79	6.76	1.60	0.00	0.00	2.27	1.000		

Seite 26

ABFLUSS	NN+M/m	m3/s	mA0.33/s	m	m	Ster0001.001 m2	m/s	m	NN+M	IE o/oo	ALPHAS	KZW
8 + 931.00	295.79	0.00	10.0	0.00	0.00	0.00	0.00	0.00	295.92	0.435	1.000	0
10.82	1.46	10.82	40.0	5.35	7.69	6.96	1.55	0.000	295.92	1.72	1.000	0
0.00	0.00	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.99	0.417	1.000	0
8 + 976.00	295.87	0.00	10.0	0.00	0.00	0.00	0.00	0.000	295.99	1.56	1.000	0
10.82	1.51	10.82	40.0	5.49	7.85	7.23	1.50	0.000	295.99	0.417	1.000	0
0.00	0.00	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.09	0.480	1.000	0
9 + 15.00	295.95	0.00	10.0	5.49	7.61	6.58	1.64	0.001	296.09	3.65	1.000	0
10.82	1.39	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.11	5.24	1.000	11
0.00	0.00	0.00	10.0	0.00	0.00	0.00	0.00	0.003	296.11	0.595	1.000	0
9 + 18.00	295.92	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.11	5.24	1.000	0
10.82	1.35	10.82	30.0	5.68	7.18	5.76	1.88	0.000	296.13	0.695	1.000	0
0.00	0.00	0.00	10.0	0.00	0.00	0.00	0.00	0.002	296.13	7.64	1.000	0
9 + 21.00	295.91	0.00	10.0	5.60	7.27	5.17	2.09	0.000	296.13	0.695	1.000	0
10.82	1.39	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.16	4.31	1.000	0
0.00	0.00	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.16	0.522	1.000	0
9 + 26.00	296.00	0.00	10.0	5.64	7.66	6.27	1.72	0.000	296.16	4.31	1.000	0
10.82	1.59	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.34	2.39	1.000	0
0.00	0.00	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.34	0.437	1.000	0
9 + 79.00	296.23	0.00	10.0	6.52	7.93	7.41	1.46	0.000	296.34	2.39	1.000	0
10.82	1.38	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.56	0.504	1.000	0
0.00	0.00	0.00	10.0	0.00	0.00	0.00	0.00	0.001	296.56	3.63	1.000	0
9 + 149.00	296.42	0.00	10.0	6.31	7.85	6.67	1.62	0.000	296.56	0.504	1.000	0
10.82	1.27	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.68	0.508	1.000	0
0.00	0.00	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.68	3.66	1.000	0
9 + 181.00	296.54	0.00	10.0	6.26	7.73	6.61	1.64	0.000	296.68	0.508	1.000	0
10.82	1.34	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.70	5.07	1.000	11
0.00	0.00	0.00	10.0	6.51	15.24	7.87	1.37	0.000	296.70	0.000	1.000	0
9 + 186.00	296.60	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.70	5.07	1.000	0
10.82	1.39	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.73	0.364	1.000	9
0.00	0.00	0.00	10.0	6.98	8.89	8.57	1.26	0.000	296.73	1.86	1.000	0
9 + 191.00	296.65	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.73	0.364	1.000	0
10.82	1.58	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.73	1.86	1.000	0

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STATIONAERE	WASSERSPIEGELLAGEN	STER0001.001
PROGRAMM WSPR2009 (C.)	Knauf 2009	DATUM : 22.06.2009
PROJEKT	K1-strieg	
ZUSTAND	Station 0	
VARIANTE	HQ 10 1st	
DATEI	Ster0001	SEITE 24

ERGEBNISSE

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	FRUDE	ALPHA	KZW
ABFLUSS	NN+M/m	m3/s	mA0.33/s	m	m	m2	m/s	m	NN+M	IE o/oo	ALPHAS	KZW
9 + 195.00	296.66	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.73	0.311	1.000	0
10.82	1.72	10.82	30.0	6.98	9.16	9.51	1.14	0.000	296.73	1.37	1.000	0
0.00	0.00	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.78	0.441	1.000	0
9 + 214.00	296.67	0.00	10.0	6.98	8.59	7.54	1.44	0.005	296.78	2.72	1.000	0
10.82	1.43	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.78	0.405	1.000	11
0.00	0.00	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.78	2.20	1.000	0
9 + 215.00	296.68	0.00	10.0	7.12	8.58	8.03	1.35	0.000	296.78	0.405	1.000	0
10.82	1.43	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.78	2.20	1.000	0
0.00	0.00	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.78	0.404	1.000	0
9 + 216.00	296.69	0.00	10.0	7.12	8.58	8.04	1.35	0.000	296.78	2.20	1.000	0
10.82	1.43	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.84	2.85	1.000	11
0.00	0.00	0.00	10.0	6.23	7.90	7.19	1.50	0.000	296.84	0.447	1.000	0
9 + 235.00	296.72	0.00	10.0	6.22	7.90	7.18	1.51	0.001	296.83	2.86	1.000	0
10.82	1.45	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.83	0.448	1.000	0
0.00	0.00	0.00	10.0	0.00	0.00	0.00	0.00	0.000	296.84	2.81	1.000	0
9 + 236.00	296.72	0.00	10.0	6.23	7.90	7.19	1.50	0.000	296.84	0.447	1.000	0
10.82	1.43	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.84	2.81	1.000	0
0.00	0.00	0.00	10.0	6.23	7.91	7.22	1.50	0.000	296.84	2.81	1.000	0
9 + 237.00	296.72	0.00	10.0	6.23	7.91	7.22	1.50	0.000	296.84	2.81	1.000	0
10.82	1.46	10.82	30.0	0.00	0.00	0.00	0.00	0.001	296.86	0.478	1.000	0
0.00	0.00	0.00	10.0	5.33	7.31	6.53	1.66	0.000	296.86	3.54	1.000	0
9 + 243.00	296.72	0.00	10.0	5.33	7.31	6.53	1.66	0.000	296.86	3.54	1.000	0
10.82	1.47	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.88	3.26	1.000	11
0.00	0.00	0.00	10.0	5.33	7.38	6.72	1.61	0.000	296.88	3.26	1.000	0
9 + 248.00	296.74	0.00	10.0	5.33	7.38	6.72	1.61	0.000	296.88	3.26	1.000	0
10.82	1.51	10.82	30.0	0.00	0.00	0.00	0.00	0.000	296.88	3.26	1.000	0

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Ster0001.001														
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	PROUDE	ALPHA	KZW	KZD	
ABFLUSS	NH+m/m	m ³ /s	m ³ 0.33/s	m	m	m ²	m/s	m	NH+m	IE o/oo				
9 + 371.00	297.24	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.32	0.381	1.000	0	0	
10.82	1.42	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.32	1.93	1.000	0	0	
9 + 372.00	297.24	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.33	0.377	1.000	11	0	
10.82	1.44	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.33	1.89	1.000	0	0	
9 + 373.00	297.25	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.32	0.385	1.000	0	0	
10.82	1.41	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.32	1.98	1.000	0	0	
9 + 381.00	297.26	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.34	0.369	1.000	0	0	
10.82	1.44	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.34	1.81	1.000	0	0	
9 + 407.00	297.54	0.00	10.0	0.00	0.00	0.00	0.00	0.003	297.65	0.399	1.000	65	0	
10.82	1.53	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.65	22.26	1.000	0	0	
9 + 408.00	297.56	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.67	0.395	1.000	11	0	
10.82	1.54	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.67	2.42	1.000	0	0	
9 + 409.00	297.56	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.66	0.390	1.000	0	0	
10.82	1.55	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.66	2.36	1.000	0	0	
9 + 432.00	297.61	0.00	10.0	0.06	1.12	0.03	0.04	0.000	297.71	0.385	1.023	0	0	
10.82	1.81	0.00	10.0	0.12	1.06	0.06	0.06	0.000	297.71	1.77	1.011	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

ERGEBNISSE

DATEI

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 10 1st
DATEI Ster0001

SEITE 27

Ster0001.001														
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	PROUDE	ALPHA	KZW	KZD	
ABFLUSS	NH+m/m	m ³ /s	m ³ 0.33/s	m	m	m ²	m/s	m	NH+m	IE o/oo				
9 + 438.00	297.64	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.73	0.352	1.000	11	0	
10.82	1.88	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.73	2.14	1.000	0	0	
9 + 442.00	297.65	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.73	0.330	1.000	0	0	
10.82	1.74	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.73	1.75	1.000	0	0	
9 + 477.00	297.70	0.00	10.0	0.00	0.00	0.00	0.00	0.003	297.82	0.437	1.005	0	0	
10.82	1.49	0.00	10.0	0.04	0.85	0.02	0.04	0.000	297.82	2.63	1.002	0	0	
9 + 481.00	297.73	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.83	0.384	1.000	11	0	
10.82	1.49	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.83	2.26	1.000	0	0	
9 + 485.00	297.73	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.83	0.389	1.000	0	0	
10.82	1.48	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.83	2.30	1.000	0	0	
9 + 513.00	297.80	0.00	10.0	0.00	0.00	0.00	0.00	0.001	297.91	0.432	1.000	0	0	
10.82	1.40	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.91	2.83	1.000	0	0	
9 + 541.00	297.87	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.99	0.443	1.000	0	0	
10.82	1.38	0.00	10.0	0.00	0.00	0.00	0.00	0.000	297.99	2.98	1.000	0	0	
9 + 547.00	297.90	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.01	0.410	1.000	11	0	
10.82	1.39	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.01	2.53	1.000	0	0	
9 + 555.00	297.92	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.02	0.436	1.000	0	0	
10.82	1.40	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.02	2.39	1.000	0	0	
9 + 612.00	298.07	0.00	10.0	0.00	0.00	0.00	0.00	0.004	298.21	0.584	1.000	0	0	
10.82	1.28	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.21	4.35	1.000	0	0	
9 + 648.00	298.23	0.00	10.0	0.00	0.00	0.00	0.00	0.034	298.55	0.971	1.000	0	0	
10.82	0.98	0.00	10.0	0.00	0.00	0.00	0.00	0.000	298.55	12.81	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.) Krauf 2009

DATUM : 22.06.2009

PROJEKT K1-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 10 1st
 DATEI Ster0001

SEITE 28

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ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m3/s	m^0.33/s	m	m	m2	m/s	m	NN+m	IE o/oo	ALPHAS		
9 +	650.00	298.44	10.0	0.00	0.00	0.00	0.00	0.000	298.57	0.491	1.000	11	0
	10.82	1.16	30.0	6.98	8.66	7.02	1.54	0.000	298.57	3.50	1.000		
			10.0	0.00	0.00	0.00	0.00						
9 +	652.00	298.46	10.0	0.00	0.00	0.00	0.00	0.000	298.57	0.455	1.000	0	0
	10.82	1.34	30.0	7.12	8.35	7.44	1.45	0.000	298.57	2.75	1.000		
			10.0	0.00	0.00	0.00	0.00						
9 +	656.00	298.47	10.0	0.00	0.00	0.00	0.00	0.000	298.57	0.446	1.000	0	0
	10.82	1.36	30.0	7.14	8.39	7.54	1.43	0.000	298.57	2.64	1.000		
			10.0	0.00	0.00	0.00	0.00						
9 +	708.00	298.60	10.0	0.00	0.00	0.00	0.00	0.001	298.73	0.469	1.000	0	0
	10.82	1.54	30.0	5.91	7.49	6.84	1.58	0.001	298.73	3.13	1.000		
			10.0	0.00	0.00	0.00	0.00						
9 +	722.00	298.60	10.0	0.00	0.00	0.00	0.00	0.012	298.81	0.672	1.000	0	0
	10.82	1.26	30.0	5.51	6.76	5.26	2.06	0.012	298.81	6.57	1.000		
			10.0	0.00	0.00	0.00	0.00						
9 +	733.00	298.75	10.0	0.00	0.00	0.00	0.00	0.000	298.87	0.443	1.000	11	0
	10.82	1.25	30.0	6.10	8.38	7.19	1.50	0.000	298.87	3.09	1.000		
			10.0	0.00	0.00	0.00	0.00						
9 +	738.00	298.78	10.0	0.00	0.00	0.00	0.00	0.000	298.90	0.453	1.000	0	0
	10.82	1.32	30.0	5.88	7.82	6.99	1.55	0.000	298.90	3.09	1.000		
			10.0	0.00	0.00	0.00	0.00						
9 +	795.00	298.98	10.0	0.00	0.00	0.00	0.00	0.000	299.07	0.401	1.000	0	0
	10.82	1.48	25.0	7.67	8.62	8.29	1.31	0.000	299.07	2.88	1.000		
			10.0	0.00	0.00	0.00	0.00						
9 +	845.00	299.17	10.0	0.00	0.00	0.00	0.00	0.017	299.35	0.647	1.000	0	0
	10.82	1.47	25.0	6.66	7.35	5.75	1.88	0.017	299.35	7.87	1.000		
			10.0	0.00	0.00	0.00	0.00						

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9 +	900.00	299.57	10.0	0.00	0.00	0.00	0.00	0.000	299.68	0.455	1.000	0	0
	10.82	1.86	25.0	7.32	8.25	7.50	1.44	0.000	299.68	3.79	1.000		
			10.0	0.00	0.00	0.00	0.00						
9 +	957.00	299.79	10.0	0.00	0.00	0.00	0.00	0.000	299.91	0.495	1.000	0	0
	10.82	1.41	25.0	7.59	8.36	7.18	1.51	0.000	299.91	4.45	1.000		
			10.0	0.00	0.00	0.00	0.00						

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

STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Krauf 2009

DATUM : 22.06.2009

PROJEKT K1-strieg
 ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 10 1st
 DATEI Ster0001

SEITE 29

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ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m3/s	m^0.33/s	m	m	m2	m/s	m	NN+m	IE o/oo	ALPHAS		
9 +	997.00	299.98	10.0	0.00	0.00	0.00	0.00	0.006	300.16	0.647	1.000	0	0
	10.82	1.22	25.0	6.94	7.61	5.83	1.86	0.006	300.16	7.87	1.000		
			10.0	0.00	0.00	0.00	0.00						
10 +	2.00	300.07	10.0	0.00	0.00	0.00	0.00	0.000	300.19	0.441	1.000	11	0
	10.82	1.33	25.0	5.74	8.03	7.06	1.53	0.000	300.19	4.46	1.000		
			10.0	0.00	0.00	0.00	0.00						
10 +	9.00	300.08	10.0	0.00	0.00	0.00	0.00	0.000	300.21	0.473	1.000	0	0
	10.82	1.29	25.0	5.54	7.72	6.67	1.62	0.000	300.21	5.13	1.000		
			10.0	0.00	0.00	0.00	0.00						
10 +	57.00	300.33	10.0	0.00	0.00	0.00	0.00	0.000	300.36	0.269	1.029	0	0
	10.82	1.23	25.0	10.98	11.92	12.36	0.87	0.000	300.36	1.16	1.014		
			10.0	0.02	0.71	0.21	0.10						
10 +	65.00	301.11	10.0	0.00	0.00	0.00	0.00	0.000	301.32	1.000	1.000	4	0
	10.82	0.58	25.0	12.16	12.45	5.26	2.06	0.000	301.32	21.41	1.000		
			10.0	0.00	0.00	0.00	0.00						
10 +	70.00	301.26	10.0	0.00	0.00	0.00	0.00	0.000	301.34	0.455	1.000	0	0
			25.0	11.82	12.13	8.80	1.23	0.000	301.34		1.000		
			10.0	0.00	0.00	0.00	0.00						

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

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Seite 36

STATION	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-HOEHEN NN+M	PROUDE IE o/oo	ALPHA	KZW	KZD
10 + 82	1.61	0.32	10.0	8.56	8.57	1.97	0.16			1.90	1.150		
10 + 530.00	303.38	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	0	0
10 + 530.00	1.66	0.00	10.0	5.90	7.10	6.40	1.69	0.026	303.53	0.518	1.000	0	0
10 + 534.00	303.41	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	11	0
10 + 534.00	1.75	0.00	10.0	4.33	7.06	6.62	1.64	0.000	303.55	0.422	1.000	0	0
10 + 538.00	303.49	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	0	0
10 + 538.00	1.73	0.00	10.0	9.54	11.15	9.11	1.19	0.000	303.56	0.388	1.000	0	0
10 + 543.00	303.50	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	0	0
10 + 543.00	1.70	0.00	10.0	9.21	10.81	8.85	1.22	0.000	303.58	0.398	1.000	0	0
10 + 600.00	303.68	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	0	0
10 + 600.00	1.36	0.00	10.0	5.85	7.39	6.50	1.67	0.010	303.82	0.505	1.000	0	0
10 + 664.00	304.04	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	0	0
10 + 664.00	1.77	0.00	10.0	5.31	7.32	5.99	1.81	0.001	304.21	0.543	1.000	0	0
10 + 691.00	304.22	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	0	0
10 + 691.00	1.36	0.00	10.0	4.86	6.62	4.92	2.20	0.008	304.47	0.698	1.000	0	0
10 + 694.00	304.35	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	11	0
10 + 694.00	1.65	0.00	10.0	4.80	6.91	6.63	1.63	0.000	304.49	0.444	1.000	0	0
10 + 697.00	304.41	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	0	0
10 + 697.00	1.66	0.00	10.0	6.54	8.03	8.23	1.32	0.000	304.50	0.374	1.000	0	0
10 + 702.00	304.42	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	0	0
10 + 702.00	1.59	0.00	10.0	6.42	7.85	7.78	1.39	0.000	304.52	0.404	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

STER0001.001
 DATUM : 22.06.2009
 Seite 39

PROJEKT Kl-strieg
 ZUSTAND Station 0
 VARIANTE HQ 10 1st
 DATEI Ster0001

ERGEBNISSE
 =====
 BREITE
 UMFANG
 FLAECHE
 GESCHW
 HZV
 E-HOEHEN
 PROUDE
 ALPHA
 KZW
 KZD

STER0001.001
 SEITE 32

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

10 + 800.00	304.91	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	0	0
10 + 800.00	1.70	0.92	10.0	24.43	24.44	5.22	0.18	0.000	304.98	0.566	2.081	0	0
10 + 851.00	305.03	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	0	0
10 + 851.00	1.82	0.00	10.0	5.83	8.19	9.08	1.19	0.007	305.11	0.305	1.000	0	0
10 + 860.00	305.05	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	11	0
10 + 860.00	1.84	0.00	10.0	6.91	8.85	9.22	1.17	0.000	305.13	0.325	1.000	0	0
10 + 867.00	305.06	0.00	10.0	0.00	0.00	0.00	0.00			0.00	1.000	0	0
10 + 867.00	1.68	0.00	10.0	7.66	9.07	8.18	1.32	0.001	305.15	0.408	1.000	0	0
10 + 926.00	305.23	0.18	12.0	3.26	3.29	0.76	0.24	0.000	305.33	0.527	1.330	0	0
10 + 926.00	1.62	0.26	12.0	5.86	6.36	7.15	1.45	0.000	305.33	0.527	1.330	0	0
11 + 6.00	305.56	0.00	12.0	0.00	0.00	0.00	0.00			0.00	1.000	0	0
11 + 10.82	1.72	0.00	12.0	4.52	6.24	5.53	1.95	0.026	305.76	0.564	1.000	0	0

Seite 40

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NH+m/m	m3/s	m^0.33/s	m	m	m2	m/s	m	NH+m	IE o/oo	ALPHAS		
11 + 10.00	305.67	0.00	12.0	0.00	0.00	0.00	0.00	0.000	305.79	0.332	1.000	12	0
10.82	1.82	0.00	25.0	3.60	7.71	7.31	1.48	0.000		3.77	1.000		
Ster0001.001													
11 + 14.00	305.76	0.00	12.0	0.00	0.00	0.00	0.00	0.000	305.79	0.161	1.000	0	0
10.82	2.06	0.00	25.0	7.87	11.69	15.34	0.71	0.000		0.55	1.000		
11 + 66.00	305.81	0.00	12.0	0.00	0.00	0.00	0.00	0.026	305.92	0.421	1.000	0	0
10.82	1.52	0.00	25.0	6.64	8.15	7.65	1.41	0.000		3.48	1.000		
11 + 119.00	306.00	0.00	12.0	0.00	0.00	0.00	0.00	0.000	306.10	0.448	1.000	0	0
10.82	1.64	0.00	25.0	7.43	8.31	7.62	1.42	0.000		3.63	1.000		
11 + 172.00	306.21	0.00	12.0	0.00	0.00	0.00	0.00	0.000	306.28	0.411	1.000	0	0
10.82	1.47	0.00	25.0	10.41	11.77	9.03	1.20	0.000		3.27	1.000		
11 + 221.00	306.37	0.67	12.0	6.95	6.97	1.92	0.35	0.000	306.47	0.558	1.364	0	0
10.82	1.49	10.15	25.0	5.00	7.06	6.76	1.50	0.000		4.77	1.147		
11 + 257.00	306.55	0.00	12.0	0.00	0.00	0.00	0.00	0.022	306.74	0.531	1.000	0	0
10.82	1.60	0.00	25.0	4.34	6.55	5.69	1.90	0.000		8.70	1.000		
11 + 262.00	306.65	0.00	12.0	0.00	0.00	0.00	0.00	0.000	306.77	0.371	1.000	12	0
10.82	1.69	0.00	25.0	4.51	7.39	7.31	1.48	0.000		3.55	1.000		

Seite 41

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NH+m/m	m3/s	m^0.33/s	m	m	m2	m/s	m	NH+m	IE o/oo	ALPHAS		
11 + 266.00	306.67	0.00	12.0	0.00	0.00	0.00	0.00	0.000	306.79	0.426	1.000	0	0
10.82	1.65	0.00	25.0	5.47	7.50	7.11	1.52	0.000		4.76	1.000		
11 + 270.00	306.68	0.00	12.0	0.00	0.00	0.00	0.00	0.000	306.81	0.444	1.000	0	0
10.82	1.61	0.00	25.0	5.41	7.39	6.89	1.57	0.000		5.20	1.000		
11 + 315.00	306.93	0.00	12.0	0.00	0.00	0.00	0.00	0.000	307.04	0.499	1.000	0	0
10.82	0.97	0.00	25.0	7.95	9.61	7.25	1.49	0.000		5.18	1.000		
11 + 319.00	307.67	0.00	12.0	0.00	0.00	0.00	0.00	0.000	307.97	1.000	1.000	4	0
10.82	0.62	0.00	25.0	7.36	8.40	4.45	2.43	0.000		22.15	1.000		

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

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009

PROJEKT Kl-strieg Station 0 + 1.00 bis 0 + 23380.00 m
 ZUSTAND Station 0
 VARIANTE HQ 10 1st
 DATEI Ster0001

ERGEBNISSE

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NH+m/m	m3/s	m^0.33/s	m	m	m2	m/s	m	NH+m	IE o/oo	ALPHAS		
11 + 330.00	307.91	0.00	12.0	0.00	0.00	0.00	0.00	0.000	308.02	0.460	1.000	0	0
10.82	1.30	0.00	25.0	7.69	8.82	7.56	1.43	0.000		4.02	1.000		
11 + 375.00	308.09	0.00	12.0	0.00	0.00	0.00	0.00	0.000	308.20	0.486	1.015	0	0
10.82	1.60	0.00	25.0	6.40	7.88	7.23	1.50	0.000		4.02	1.007		
11 + 421.00	308.27	0.00	12.0	0.00	0.00	0.00	0.00	0.000	308.37	0.433	1.000	0	0
10.43	1.29	0.00	25.0	7.46	8.46	7.62	1.37	0.000		3.45	1.000		
11 + 483.00	308.54	0.00	12.0	0.00	0.00	0.00	0.00	0.008	308.70	0.597	1.000	0	0
10.18		0.00	25.0	6.45	7.31	5.76	1.77	0.000					

Seite 42

ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 10 1st
DATEI Ster0001

Ster0001.001

SEITE 36

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	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
12 +	31.00	311.58	0.00	12.0	0.00	0.00	0.00	0.000	311.69	0.447	1.000	0 0
	10.18	1.70	10.18	25.0	7.88	7.17	1.42			3.67	1.000	
			0.00	12.0	0.00	0.00	0.00					
12 +	45.00	311.59	0.00	12.0	0.00	0.00	0.00	0.017	311.80	0.687	1.000	0 0
	10.18	1.38	10.18	25.0	6.70	5.11	1.99			9.10	1.000	
			0.00	12.0	0.00	0.00	0.00					
12 +	47.00	311.56	0.00	12.0	0.00	0.00	0.00	0.004	311.83	0.670	1.000	11 0
	10.18	1.35	10.18	25.0	7.85	4.49	2.27			11.83	1.000	
			0.00	12.0	0.00	0.00	0.00					
12 +	49.00	311.43	0.00	12.0	0.00	0.00	0.00	0.030	311.89	0.917	1.000	0 0
	10.18	1.28	10.18	25.0	3.02	3.36	3.03			24.94	1.000	
			0.00	12.0	0.00	0.00	0.00					
12 +	56.00	311.89	0.00	12.0	0.00	0.00	0.00	0.000	311.99	0.510	1.730	0 0
	10.18	1.80	10.18	25.0	3.23	5.28	1.57			3.93	1.255	
			8.29	12.0	8.43	4.07	0.46					
12 +	111.00	312.10	0.00	12.0	0.00	0.00	0.00	0.000	312.14	0.350	1.089	0 0
	10.18	1.71	10.12	25.0	12.10	11.32	0.89			1.54	1.041	
			0.06	12.0	5.90	0.60	0.10					
12 +	160.00	312.20	0.00	12.0	0.00	0.00	0.00	0.038	312.38	0.694	1.166	0 0
	10.18	1.35	10.00	25.0	4.97	5.34	1.87			6.54	1.073	
			0.18	12.0	3.16	0.38	0.31					
12 +	207.00	312.51	0.00	12.0	0.00	0.00	0.00	0.001	312.69	0.561	1.000	0 0
	10.18	1.41	10.18	25.0	4.69	5.40	1.88			7.15	1.000	
			0.00	12.0	0.00	0.00	0.00					
12 +	216.00	312.56	0.00	12.0	0.00	0.00	0.00	0.002	312.77	0.633	1.000	0 0
	10.18	1.32	10.18	25.0	4.60	4.95	2.06			9.15	1.000	
			0.00	12.0	0.00	0.00	0.00					
12 +	220.00	312.64	0.00	12.0	0.00	0.00	0.00	0.000	312.81	0.497	1.000	11 0
	10.18	1.45	10.18	25.0	4.32	5.70	1.79			6.63	1.000	
			0.00	12.0	0.00	0.00	0.00					

Seite 45

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STATIONAERE WASSERSPIEGELLAGEN
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009
PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

SEITE 37

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	FROUDE IE o/oo	ALPHA ALPHAS	KZW KZD
12 +	227.00	312.72	0.00	12.0	0.00	0.00	0.00	0.000	312.86	0.833	1.157	0 0
	10.18	1.93	10.12	25.0	5.23	7.71	1.67			6.10	1.073	
			0.06	12.0	11.05	0.52	0.12					
12 +	276.00	312.99	0.03	12.0	3.11	0.28	0.11	0.000	313.06	0.390	1.054	0 0
	10.18	1.54	10.15	25.0	7.72	8.97	1.13			1.96	1.026	
			0.00	12.0	0.00	0.00	0.00					
12 +	320.00	313.08	0.00	12.0	0.00	0.00	0.00	0.008	313.20	0.478	1.000	0 0
	10.18	1.30	10.18	25.0	6.69	6.77	1.50			4.28	1.000	
			0.00	12.0	0.00	0.00	0.00					
12 +	328.00	313.14	0.00	12.0	0.00	0.00	0.00	0.000	313.23	0.393	1.000	31 5
	10.18	1.34	10.18	25.0	7.31	7.94	1.28			3.00	1.000	
			0.00	12.0	8.77	0.00	0.00					
12 +	336.00	313.14	0.00	12.0	0.00	0.00	0.00	0.005	313.27	0.494	1.000	0 0
	10.18	1.26	10.18	25.0	5.91	6.35	1.60			5.17	1.000	
			0.00	12.0	0.00	0.00	0.00					
12 +	381.00	313.36	0.00	12.0	0.00	0.00	0.00	0.000	313.45	0.355	1.000	0 0
	10.18	1.34	10.18	25.0	6.13	8.01	1.27			2.65	1.000	
			0.00	12.0	0.00	0.00	0.00					
12 +	385.00	313.37	0.00	12.0	0.00	0.00	0.00	0.000	313.46	0.365	1.000	11 0
	10.18	1.48	10.18	25.0	5.63	7.64	1.33			2.97	1.000	
			0.00	12.0	0.00	0.00	0.00					

Seite 46

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 0.33/s	m	m	m ²	m/s	m	NN+M	IE o/oo	ALPHAS	KZW	KZD
12 + 389.00	313.38	0.01	12.0	0.36	0.42	0.04	0.15	0.000	313.47	0.445	1.009	0	0
10.18	1.46	0.00	12.0	7.05	8.05	7.32	1.39	0.00	3.50	1.004	1.004	0	0
12 + 453.00	313.60	0.00	12.0	0.00	0.00	0.00	0.00	0.000	313.66	0.357	1.000	0	0
10.18	1.70	0.00	12.0	8.44	9.50	8.88	1.15	0.000	2.30	1.000	1.000	0	0
12 + 519.00	313.92	0.00	10.0	0.00	0.00	0.00	0.00	0.030	314.11	0.723	1.000	0	0
10.18	1.36	0.00	10.0	7.47	8.13	5.32	1.91	0.000	10.29	1.000	1.000	0	0
12 + 535.00	314.08	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.27	0.698	1.000	0	0
10.18	1.36	0.00	10.0	6.59	7.37	5.23	1.95	0.000	9.58	1.000	1.000	0	0

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STATIONNAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

ERGEBNISSE
SEITE 38

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 0.33/s	m	m	m ²	m/s	m	NN+M	IE o/oo	ALPHAS	KZW	KZD
12 + 542.00	314.16	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.32	0.504	1.000	31	5
10.18	1.38	0.00	10.0	4.44	6.72	5.70	1.79	0.000	6.36	1.000	1.000	0	0
12 + 549.00	314.21	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.36	0.479	1.000	0	0
10.18	1.56	0.00	10.0	4.61	6.58	5.96	1.71	0.000	5.32	1.000	1.000	0	0
12 + 590.00	314.44	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.53	0.410	1.000	0	0
10.18	1.54	0.00	10.0	7.63	8.79	7.86	1.29	0.000	3.11	1.000	1.000	0	0
12 + 629.00	314.59	0.00	10.0	0.00	0.00	0.00	0.00	0.030	314.80	0.517	1.000	0	0
10.18	1.81	0.00	10.0	3.07	6.41	4.95	2.06	0.000	9.53	1.000	1.000	0	0

Seite 47

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 0.33/s	m	m	m ²	m/s	m	NN+M	IE o/oo	ALPHAS	KZW	KZD
12 + 632.00	314.62	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.83	0.508	1.000	11	0
10.18	1.83	0.00	10.0	3.07	6.45	5.01	2.03	0.000	9.24	1.000	1.000	0	0
12 + 635.00	314.63	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.86	0.543	1.000	0	0
10.18	1.76	0.00	10.0	3.07	6.30	4.79	2.13	0.000	10.42	1.000	1.000	0	0
12 + 640.00	314.72	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.90	0.518	1.000	0	0
10.18	1.46	0.00	10.0	4.11	6.45	5.45	1.87	0.000	7.00	1.000	1.000	0	0
12 + 642.00	314.73	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.92	0.551	1.000	11	0
10.18	1.41	0.00	10.0	4.10	6.34	5.23	1.95	0.000	7.86	1.000	1.000	0	0
12 + 644.00	314.74	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.94	0.608	1.027	0	0
10.18	1.49	0.00	10.0	4.45	6.16	5.19	1.96	0.000	7.71	1.012	1.012	0	0
12 + 646.00	314.76	0.00	10.0	0.00	0.00	0.00	0.00	0.000	314.95	0.625	1.024	0	0
10.18	1.47	0.00	10.0	4.63	6.26	5.15	1.97	0.000	8.08	1.011	1.011	0	0
12 + 669.00	314.95	0.00	10.0	0.00	0.00	0.00	0.00	0.000	315.13	0.521	1.000	0	0
10.18	1.59	0.00	10.0	4.08	6.51	5.41	1.88	0.000	7.24	1.000	1.000	0	0

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STATIONNAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

ERGEBNISSE
SEITE 39

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 0.33/s	m	m	m ²	m/s	m	NN+M	IE o/oo	ALPHAS	KZW	KZD
12 + 673.00	314.94	0.00	10.0	0.00	0.00	0.00	0.00	0.002	315.17	0.572	1.000	11	0
10.18	1.47	0.00	10.0	3.62	6.05	4.89	2.08	0.000	9.18	1.000	1.000	0	0

Seite 48

Ster0001.001														
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UFWANG	FLAECHE	GESCHW	HZV	E-HOEH	FROUDE	ALPHA	KZW	KZD	
ABFLUSS	NH+m/m	m ³ /s	m ² 0.33/s	m	m	m ²	m/s	m	NH+m	IE o/oo	ALPHAS			
12 + 677.00	315.08	0.00	10.0	0.00	0.00	0.00	0.00	0.000	315.19	0.418	1.000	0	0	
10.18	1.54	0.00	25.0	5.98	7.50	7.13	1.43	0.00	315.19	3.49	1.000	0	0	
12 + 680.00	315.09	0.00	10.0	0.00	0.00	0.00	0.00	0.000	315.20	0.431	1.000	0	0	
10.18	1.50	0.00	25.0	5.90	7.38	6.95	1.46	0.000	315.20	3.71	1.000	0	0	
12 + 710.00	315.20	0.00	10.0	0.00	0.00	0.00	0.00	0.000	315.31	0.425	1.000	0	0	
10.18	1.51	0.00	10.0	5.92	7.41	7.02	1.45	0.000	315.31	3.62	1.000	0	0	
12 + 717.00	315.20	0.00	10.0	0.00	0.00	0.00	0.00	0.004	315.36	0.463	1.000	11	0	
10.18	1.49	0.00	25.0	6.11	6.84	6.87	1.73	0.000	315.36	5.88	1.000			
12 + 724.00	315.30	0.00	10.0	0.00	0.00	0.00	0.00	0.000	315.38	0.381	1.000	0	0	
10.18	1.53	0.00	10.0	8.45	9.32	8.50	1.20	0.000	315.38	2.60	1.000	0	0	
12 + 773.00	315.43	0.09	10.0	3.04	3.05	0.47	0.18	0.002	315.55	0.558	1.115	0	0	
10.18	1.49	10.09	25.0	6.84	7.48	6.73	1.50	0.000	315.55	4.14	1.053			
12 + 824.00	315.66	0.00	10.0	0.00	0.00	0.00	0.00	0.000	315.77	0.534	1.001	0	0	
10.18	1.25	0.00	25.0	8.44	8.93	6.87	1.48	0.000	315.77	4.97	1.000			
12 + 875.00	315.95	0.00	10.0	0.00	0.00	0.00	0.00	0.004	316.11	0.665	1.000	0	0	
10.18	1.12	0.00	10.0	8.07	8.50	5.78	1.76	0.000	316.11	8.31	1.000			
12 + 902.00	316.16	0.00	10.0	0.00	0.00	0.00	0.00	0.000	316.32	0.601	1.000	0	0	
10.18	1.17	0.00	10.0	6.51	7.42	5.75	1.77	0.000	316.32	7.03	1.000			
12 + 905.00	316.30	0.00	10.0	0.00	0.00	0.00	0.00	0.000	316.34	0.252	1.000	12	0	
10.18	1.34	0.00	25.0	10.31	15.31	11.98	0.85	0.000	316.34	1.60	1.000			

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

STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knaut 2009 DATUM : 22.06.2009

PROJEKT K1-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m

Seite 49

VARIANTE HQ_10_1st
DATEI Ster0001

Ster0001.001

SEITE 40

ERGEBNISSE														
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UFWANG	FLAECHE	GESCHW	HZV	E-HOEH	FROUDE	ALPHA	KZW	KZD	
ABFLUSS	NH+m/m	m ³ /s	m ² 0.33/s	m	m	m ²	m/s	m	NH+m	IE o/oo	ALPHAS			
12 + 908.00	316.24	0.00	10.0	0.00	0.00	0.00	0.00	0.037	316.38	0.560	1.000	0	0	
10.18	1.21	0.00	25.0	6.37	7.44	5.99	1.70	0.000	316.38	6.16	1.000			
12 + 916.00	316.29	0.00	10.0	0.00	0.00	0.00	0.00	0.000	316.43	0.551	1.000	0	0	
10.18	1.21	0.00	10.0	6.21	7.41	6.00	1.70	0.000	316.43	6.10	1.000			
12 + 974.00	316.63	0.00	10.0	0.00	0.00	0.00	0.00	0.000	316.75	0.498	1.000	0	0	
10.18	1.33	0.00	10.0	6.81	7.81	6.62	1.54	0.000	316.75	4.71	1.000			
13 + 29.00	316.91	0.00	10.0	0.00	0.00	0.00	0.00	0.002	317.06	0.569	1.000	0	0	
10.18	1.36	0.00	10.0	6.03	7.37	5.81	1.75	0.000	317.06	6.73	1.000			
13 + 86.00	317.28	0.00	10.0	0.00	0.00	0.00	0.00	0.000	317.41	0.538	1.000	0	0	
10.18	1.17	0.00	10.0	7.24	7.95	6.42	1.59	0.000	317.41	5.34	1.000			
13 + 113.00	317.42	0.00	10.0	0.00	0.00	0.00	0.00	0.000	317.54	0.514	1.000	0	0	
10.18	1.20	0.00	10.0	7.33	8.05	6.64	1.53	0.000	317.54	4.86	1.000			
13 + 118.00	317.35	0.00	10.0	0.00	0.00	0.00	0.00	0.030	317.62	0.743	1.000	31	5	
10.18	1.11	0.00	10.0	4.53	5.89	4.43	2.30	0.000	317.62	12.39	1.000			
13 + 123.00	317.53	0.00	10.0	0.00	0.00	0.00	0.00	0.000	317.66	0.564	1.000	0	0	
10.18	1.25	0.00	10.0	7.73	8.27	6.35	1.60	0.000	317.66	5.84	1.000			
13 + 176.00	317.84	0.22	10.0	3.08	3.13	0.78	0.28	0.000	317.96	0.698	1.267	0	0	
10.18	1.44	9.92	25.0	7.28	8.25	6.52	1.52	0.000	317.96	5.07	1.116			
13 + 228.00	318.15	0.00	10.0	0.00	0.00	0.00	0.00	0.003	318.28	0.624	1.000	0	0	
10.18	1.08	0.00	10.0	10.06	10.33	6.49	1.57	0.000	318.28	7.31	1.000			

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13 + 248.00	318.26	10.18	25.0	5.96	6.58	4.28	2.38	0.034	318.55	0.897	1.000	0
10.18	1.19	0.00	10.0	0.00	0.00	0.00	0.00		16.09	1.000	0	
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 : 22.06.2009 PROJEKT K1-strieg + 1.00 bis 0 + 23380.00 m ZUSTAND Station 0 VARIANTE HQ 10 1st DATEI Ster0001 SEITE 41												
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STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECH	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW
ABFLUSS	NN+m/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS	KZD
13 + 251.00	318.37	0.00	10.0	0.00	0.00	0.00	0.00	0.000	318.59	0.625	1.000	11
10.18	1.29	0.00	10.0	0.00	0.00	0.00	0.00		9.17	1.000	0	
13 + 254.00	318.50	0.24	10.0	9.65	9.86	1.40 *	0.17	0.000	318.60	0.646	1.342	0
10.18	1.30	0.00	10.0	0.00	0.00	0.00	0.00		4.07	1.148	0	
13 + 258.00	318.49	0.15	10.0	2.71	2.88	0.56 *	0.27	0.002	318.63	0.817	1.305	0
10.18	1.11	0.08	10.0	7.64	7.03	0.53	0.14		6.48	1.133	0	
13 + 305.00	318.81	0.34	10.0	4.70	4.72	0.97	0.35	0.006	319.01	0.903	1.314	0
10.18	1.12	0.00	10.0	5.96	6.35	4.79	2.06		9.84	1.133	0	
13 + 327.00	319.01	0.80	10.0	0.00	0.00	0.00	0.00	0.012	319.27	0.741	1.000	0
9.80	1.21	0.00	10.0	4.68	5.81	4.37	2.24		11.74	1.000	0	
13 + 331.00	319.12	0.00	10.0	0.00	0.00	0.00	0.00	0.000	319.31	0.510	1.000	12
9.80	1.30	0.00	10.0	3.55	6.87	5.11	1.92		8.70	1.000	0	
13 + 335.00	319.21	0.00	10.0	0.00	0.00	0.00	0.00	0.000	319.33	0.522	1.000	0
9.80	1.38	0.00	10.0	7.07	7.77	6.33	1.55		5.02	1.000	0	
13 + 341.00	319.27	0.55	25.0	7.27	7.66	7.71	1.24	0.000	319.35	0.443	1.225	0
9.80	1.43	0.24	10.0	3.86	3.71	1.10	0.22		2.43	1.097	0	
Ster0001.001												
13 + 391.00	319.43	0.00	10.0	0.00	0.00	0.00	0.00	0.005	319.53	0.484	1.000	0
9.80	1.54	0.00	10.0	7.67	9.40	6.84	1.43		5.01	1.000	0	
13 + 440.00	319.65	0.00	10.0	0.42	0.44	0.03	0.10	0.000	319.77	0.616	1.125	0
9.80	1.55	0.06	10.0	6.18	6.94	6.42	1.16		4.45	1.058	0	
13 + 498.00	319.91	0.00	10.0	0.00	0.00	0.00	0.00	0.000	320.02	0.476	1.000	0
9.80	1.23	0.00	10.0	7.56	8.31	6.89	1.42		4.15	1.000	0	
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 : 22.06.2009 PROJEKT K1-strieg + 1.00 bis 0 + 23380.00 m ZUSTAND Station 0 VARIANTE HQ 10 1st DATEI Ster0001 SEITE 42												
=====												
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECH	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW
ABFLUSS	NN+m/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS	KZD
13 + 501.00	319.81	0.00	10.0	0.00	0.00	0.00	0.00	0.045	320.10	0.755	1.000	11
9.80	1.09	0.00	10.0	4.17	5.94	4.15	2.36		14.37	1.000	0	
13 + 504.00	319.85	0.04	10.0	1.06	1.09	0.13	0.29	0.000	320.13	0.930	1.063	0
9.80	1.18	0.00	10.0	5.20	5.76	4.17	2.34		13.45	1.029	0	
13 + 515.00	320.05	0.00	10.0	0.00	0.00	0.00	0.00	0.000	320.24	0.547	1.000	0
9.80	1.54	0.00	10.0	3.97	5.97	5.06	1.94		7.48	1.000	0	
13 + 517.00	320.13	0.00	10.0	0.00	0.00	0.00	0.00	0.000	320.26	0.411	1.000	11
9.80	1.65	0.00	10.0	4.44	6.92	6.36	1.54		4.25	1.000	0	
13 + 517.00	320.13	0.00	10.0	0.00	0.00	0.00	0.00					

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 0,53/s	m	m	m ²	m/s	m	NN+M	IE o/0o	ALPHAS		
13 + 519.00	320.09	9.80	25.0	4.94	7.05	5.12	1.91	0.007	320.28	0.601	1.000	0	0
9.80	1.64	0.00	10.0	0.00	0.00	0.00	0.00		8.99	1.000			
13 + 522.00	320.21	0.00	10.0	0.00	0.00	0.00	0.00	0.000	320.29	0.569	1.838	0	0
9.80	1.83	0.11	25.0	5.56	7.38	7.11	1.28		2.76	1.321			
0.69	10.0	16.76	10.0	16.77	3.63	0.19	0.19						
13 + 566.00	320.37	0.53	10.0	13.83	13.83	2.33	0.23	0.002	320.47	0.742	1.575	0	0
9.80	1.63	9.27	25.0	8.64	9.85	6.57	1.41		5.47	1.231			
0.00	10.0	3.16	10.0	3.16	0.05	0.05	0.05						
13 + 624.00	320.63	0.90	10.0	9.03	9.27	3.24	0.28	0.000	320.72	0.611	1.881	0	0
9.80	1.33	8.85	25.0	5.48	5.98	6.18	1.43		3.14	1.327			
0.05	10.0	4.93	10.0	4.93	4.93	0.44	0.11						
13 + 650.00	320.73	0.01	10.0	2.85	2.86	0.07	0.08	0.046	320.93	0.805	1.027	0	0
9.80	1.12	9.79	25.0	5.36	6.60	4.96	1.97		9.13	1.013			
0.00	10.0	0.00	10.0	0.00	0.00	0.00	0.00						
13 + 654.00	320.70	0.00	10.0	0.00	0.00	0.00	0.00	0.011	320.99	0.818	1.000	11	0
9.80	1.04	9.80	25.0	4.63	6.08	4.08	2.40		15.76	1.000			
0.00	10.0	0.00	10.0	0.00	0.00	0.00	0.00						
13 + 658.00	320.82	0.03	10.0	5.42	5.42	0.26	0.13	0.000	321.04	0.939	1.103	0	0
9.80	1.13	9.77	25.0	4.83	6.12	4.75	2.06		9.47	1.049			
0.00	10.0	0.00	10.0	0.05	0.06	0.00	0.00						

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 : 22.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

SEITE 43

ERGEBNISSE

Seite 53

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 0,53/s	m	m	m ²	m/s	m	NN+M	IE o/0o	ALPHAS		
13 + 716.00	321.31	9.46	25.0	5.39	5.87	5.67	1.67	0.000	321.45	0.745	1.473	0	0
9.80	1.47	0.09	10.0	1.38	1.47	0.35	0.26		4.68	1.198			
0.00	10.0	0.53	10.0	0.53	0.53	0.01	0.08	0.030	321.91	0.797	1.004	0	0
13 + 769.00	321.68	9.80	25.0	5.87	6.63	4.62	2.12		11.68	1.002			
9.80	1.16	0.00	10.0	0.00	0.00	0.00	0.00						
0.00	10.0	0.22	10.0	0.22	0.22	0.00	0.02	0.000	322.32	0.448	1.000	0	0
13 + 821.00	322.21	9.80	25.0	5.89	7.34	6.68	1.47		4.05	1.000			
9.80	1.41	0.00	10.0	0.00	0.00	0.00	0.00						
0.08	10.0	8.28	10.0	8.28	8.28	0.76	0.10						
13 + 835.00	322.29	9.72	25.0	6.28	8.10	8.02	1.21	0.000	322.36	0.496	1.172	0	0
9.80	1.64	0.00	10.0	0.00	0.00	0.00	0.00		2.38	1.079			
0.00	10.0	9.80	25.0	1.60	7.54	4.77	2.06	0.045	322.44	0.381	1.000	12	0
13 + 838.00	322.22	9.80	25.0	1.60	7.54	4.77	2.06		12.46	1.000			
9.80	1.60	0.00	10.0	0.00	0.00	0.00	0.00						
0.00	10.0	0.57	10.0	0.57	0.58	0.01	0.04	0.000	322.45	0.416	1.003	0	0
13 + 841.00	322.35	9.80	25.0	5.54	7.44	7.02	1.40		3.38	1.001			
9.80	1.81	0.00	10.0	0.00	0.00	0.00	0.00						
0.00	10.0	9.80	25.0	5.30	7.12	6.34	1.55	0.001	322.47	0.451	1.000	0	0
13 + 844.00	322.35	9.80	25.0	5.30	7.12	6.34	1.55		4.46	1.000			
9.80	1.68	0.00	10.0	0.00	0.00	0.00	0.00						
0.00	10.0	0.00	10.0	0.00	0.00	0.00	0.00						
13 + 897.00	322.60	9.80	25.0	8.60	9.13	7.18	1.36	0.000	322.69	0.477	1.000	0	0
9.80	1.24	0.00	10.0	0.00	0.00	0.00	0.00		4.10	1.000			
0.00	10.0	9.60	25.0	13.47	14.18	9.79	0.98	0.000	322.84	0.412	1.180	0	0
13 + 943.00	322.79	9.60	25.0	13.47	14.18	9.79	0.98		2.52	1.079			
9.80	1.32	0.20	10.0	5.90	5.91	1.18	0.17						
0.00	10.0	8.24	10.0	4.84	5.66	4.33	1.90	0.000	323.24	1.000	2.147	4	0
13 + 997.00	323.08	8.24	18.0	4.84	5.66	4.33	1.90		15.93	1.392			
9.80	1.42	1.56	10.0	21.40	21.40	3.87	0.40						

+++++++ Engstelle mit Fluesswechsel, Energieminimum > EH(UW)
!!! Profllabstand 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 : 22.06.2009

Seite 54

PROJEKT K1-Strieg
 ZUSTAND Station 0
 VARIANTE HQ 10 1st
 DATEI Ster0001

Ster0001.001

SEITE 44

=====													
ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	PROUDE	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	KZW	KZD
14 +	47.00	323.47	0.00	0.00	0.00	0.00	0.00	0.000	323.58	0.669	1.206	0	0
	9.80	2.04	9.69	4.17	6.47	6.50	1.49	0.000	6.84	6.84	1.093	0	0
			0.11	10.33	10.33	0.76	0.15						
14 +	78.00	323.70	0.00	0.00	0.00	0.00	0.00	0.002	323.82	0.406	1.000	0	0
	9.80	1.67	9.80	4.35	7.03	6.37	1.54		8.35	8.35	1.000		
			0.00	0.00	0.00	0.00	0.00						
14 +	79.00	323.71	0.00	0.00	0.00	0.00	0.00	0.000	323.83	0.412	1.000	11	0
	9.80	1.65	9.80	4.34	7.00	6.30	1.56		8.59	8.59	1.000		
			0.00	0.00	0.00	0.00	0.00						
14 +	80.00	323.71	0.00	0.00	0.00	0.00	0.00	0.000	323.83	0.407	1.000	0	0
	9.80	1.65	9.80	4.34	7.00	6.35	1.54		8.36	8.36	1.000		
			0.00	0.00	0.00	0.00	0.00						
14 +	92.00	323.81	0.00	0.00	0.00	0.00	0.00	0.000	323.93	0.392	1.000	0	0
	9.80	1.95	9.80	4.21	7.37	6.45	1.52		8.49	8.49	1.000		
			0.00	0.00	0.00	0.00	0.00						
14 +	98.00	323.86	0.00	0.00	0.00	0.00	0.00	0.000	323.99	0.398	1.000	11	0
	9.80	1.94	9.80	4.21	7.34	6.39	1.53		8.74	8.74	1.000		
			0.00	0.00	0.00	0.00	0.00						
14 +	106.00	323.94	0.00	0.00	0.00	0.00	0.00	0.000	324.02	0.396	1.000	0	0
	9.80	1.63	9.80	7.36	8.47	7.71	1.27		5.65	5.65	1.000		
			0.00	0.00	0.00	0.00	0.00						
14 +	170.00	324.28	0.09	3.51	3.54	0.52	0.18	0.000	324.34	0.455	1.168	0	0
	9.80	1.84	9.66	8.53	9.34	8.76	1.10		4.08	4.08	1.075		
			0.05	4.35	4.35	0.40	0.13						
14 +	258.00	324.59	0.00	0.00	0.00	0.00	0.00	0.000	324.64	0.341	1.024	0	0
	9.80	1.52	9.79	5.54	10.46	10.63	0.92		2.57	2.57	1.011		
			0.01	4.92	4.92	0.13	0.05						
14 +	369.00	325.20	0.00	0.00	0.00	0.00	0.00	0.016	325.31	0.511	1.000	0	0
	9.80	1.36	9.80	7.77	8.36	6.63	1.48		9.20	9.20	1.000		
			0.00	0.00	0.00	0.00	0.00						

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Ster0001.001

14 +	390.00	325.38	0.00	0.00	0.00	0.00	0.00	0.000	325.50	0.483	1.000	0	0
	9.80	1.51	9.80	6.31	7.28	6.42	1.53		8.50	8.50	1.000		
			0.00	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 : 22.06.2009

PROJEKT K1-Strieg
 ZUSTAND Station 0
 VARIANTE HQ 10 1st
 DATEI Ster0001

SEITE 45

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ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	PROUDE	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	KZW	KZD

14 +	397.00	325.41	0.00	0.00	0.00	0.00	0.00	0.004	325.58	0.491	1.000	11	0
	9.80	1.53	9.80	3.99	6.48	5.45	1.80		12.59	12.59	1.000		
			0.00	0.00	0.00	0.00	0.00						

14 +	404.00	325.54	0.00	0.00	0.00	0.00	0.00	0.000	325.65	0.471	1.000	0	0
	9.80	1.40	9.80	7.05	7.93	6.77	1.45		7.97	7.97	1.000		
			0.00	0.00	0.00	0.00	0.00						

14 +	597.00	326.84	0.00	0.00	0.00	0.00	0.00	0.000	326.90	0.385	1.000	0	0
	9.80	1.28	9.80	10.03	10.53	8.72	1.12		5.02	5.02	1.000		
			0.00	0.00	0.00	0.00	0.00						

14 +	658.00	327.29	0.00	0.00	0.00	0.00	0.00	0.006	327.40	0.556	1.000	0	0
	9.80	1.08	9.80	9.52	9.88	6.71	1.46		11.06	11.06	1.000		
			0.00	0.00	0.00	0.00	0.00						

14 +	743.00	328.12	0.00	0.00	0.00	0.00	0.00	0.000	328.20	0.537	1.120	0	0
	9.80	1.00	9.65	10.42	10.76	7.66	1.26		7.71	7.71	1.053		
			0.15	4.54	4.57	0.63	0.23						

14 +	813.00	328.79	0.00	0.00	0.00	0.00	0.00	0.000	329.06	1.000	1.000	4	0
	9.80	0.92	9.80	10.0	10.0	8.04	1.29		39.02	39.02	1.000		
			0.00	0.00	0.00	0.00	0.00						

+++++++ Engstelle mit Fluesswechsel, Energieminimum > EH(UW)
 !! Profilabstand zum Ow ueberpruefen !!
 Seite 56

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	KZW	KZD
14 + 869.00	329.57	0.00	10.0	0.18	0.18	0.00	0.00	0.000	329.71	0.575	1.000	0	0
9.80	1.11	9.80	18.0	7.41	8.02	6.08	1.61	0.00	11.60	1.000	1.000	0	0
14 + 934.00	330.34	2.61	10.0	13.88	13.93	4.96	0.53	0.000	330.44	0.658	1.895	0	0
9.80	1.19	0.01	18.0	4.51	5.26	4.34	1.66	0.000	10.96	1.291	1.291	0	0
15 + 8.00	331.05	0.61	10.0	19.21	19.21	2.60	0.23	0.000	331.14	0.707	1.570	0	0
9.80	1.13	0.00	10.0	0.12	0.12	0.00	0.00	0.000	7.86	1.226	1.226	0	0
15 + 39.00	331.27	0.50	10.0	5.19	5.25	1.56	0.32	0.000	331.34	0.509	1.466	0	0
9.80	1.22	0.30	18.0	8.08	8.08	1.19	1.22	0.000	5.17	1.182	1.182	0	0
9.80	1.22	0.30	10.0	5.60	5.65	1.38	0.26	0.000	5.17	1.182	1.182	0	0
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STATIONNAERE WASSERSPIEGELLAGEN PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009													
PROJEKT Kl-strieg ZUSTAND Station 0 VARIANTE HQ 10 1st DATEI Ster0001													
+ 1.00 bis 0 + 23380.00 m ERGEBNISSE SEITE 46													
15 + 88.00	331.53	0.00	10.0	0.00	0.00	0.00	0.00	0.003	331.61	0.553	1.043	0	0
9.80	1.29	0.01	18.0	8.07	8.86	7.86	1.25	0.003	5.61	1.021	1.021	0	0
15 + 114.50	331.68	0.01	10.0	0.76	0.79	0.09	0.12	0.000	331.72	0.481	1.677	0	0
9.80	1.34	0.15	18.0	8.17	8.96	3.91	0.99	0.000	2.92	1.265	1.265	0	0
15 + 147.50	331.79	2.41	10.0	12.05	12.10	6.34	0.38	0.000	331.83	0.387	1.655	0	0
9.80	1.32	0.34	18.0	7.28	7.62	7.22	1.02	0.000	3.43	1.223	1.223	0	0
15 + 213.50	332.05	0.02	10.0	1.59	1.60	0.14	0.15	0.008	332.12	0.513	1.095	0	0
9.80	1.33	0.75	18.0	9.97	10.51	8.56	1.14	0.008	5.27	1.044	1.044	0	0
9.80	1.33	0.03	10.0	6.52	6.52	0.33	0.10	0.000	5.27	1.044	1.044	0	0
Ster0001.001 ERGEBNISSE SEITE 57													
15 + 240.00	332.19	0.00	10.0	0.27	0.27	0.00	0.03	0.000	332.23	0.384	1.046	0	0
9.80	1.37	0.78	18.0	11.00	11.99	10.45	0.94	0.000	3.25	1.022	1.022	0	0
15 + 326.00	332.47	0.01	10.0	0.57	0.60	0.05	0.12	0.001	332.52	0.334	1.009	0	0
9.80	1.32	0.79	18.0	9.14	9.97	9.47	1.03	0.001	3.54	1.004	1.004	0	0
15 + 363.00	332.62	1.05	10.0	15.17	15.21	3.60	0.29	0.000	332.69	0.574	1.692	0	0
9.80	1.33	0.74	18.0	6.70	7.47	6.77	1.29	0.000	5.86	1.258	1.258	0	0
15 + 419.00	332.95	0.00	10.0	0.00	0.00	0.00	0.00	0.011	333.05	0.439	1.000	0	0
9.80	1.45	0.00	18.0	6.58	7.62	7.01	1.40	0.011	6.75	1.000	1.000	0	0
15 + 467.00	333.27	0.55	10.0	25.01	25.03	3.00	0.18	0.000	333.36	0.771	1.847	0	0
9.80	1.58	0.19	18.0	5.68	6.99	6.85	1.34	0.000	5.72	1.327	1.327	0	0
15 + 510.50	333.49	0.75	10.0	5.48	5.61	3.00	0.25	0.000	333.52	0.308	1.495	0	0
9.80	1.66	0.90	18.0	7.58	8.05	10.72	0.83	0.000	1.45	1.193	1.193	0	0
15 + 566.50	333.63	0.17	10.0	2.44	2.49	0.59	0.28	0.011	333.72	0.647	1.476	0	0
9.80	1.38	0.37	18.0	6.00	6.48	6.80	1.38	0.011	5.50	1.196	1.196	0	0
9.80	1.38	0.27	10.0	11.52	11.58	1.45	0.19	0.000	11.58	1.45	1.45	0	0
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STATIONNAERE WASSERSPIEGELLAGEN PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009													
PROJEKT Kl-strieg ZUSTAND Station 0 VARIANTE HQ 10 1st DATEI Ster0001													
+ 1.00 bis 0 + 23380.00 m ERGEBNISSE SEITE 47													
15 + 618.00	333.96	0.00	10.0	0.00	0.00	0.00	0.00	0.007	334.07	0.495	1.013	0	0
9.80	1.43	9.80	18.0	5.86	7.25	6.57	1.49	0.007	7.81	1.006	1.006	0	0
9.80	1.43	0.00	10.0	1.31	1.31	0.05	0.10	0.000	7.81	1.006	1.006	0	0

STATION	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-HOEHEN NN+m	PROUDE IE o/oo	ALPHA	KZW	KZD
15 + 649.00 9.80	334.19 1.49	7.74 0.75	10.0 10.0	21.04 6.01	21.10 19.80	7.78 8.03	0.22 0.16	0.000	334.22	0.383	2.722	0	0
15 + 688.00 9.80	334.29 1.37	0.00 9.75	10.0 10.0	0.00 10.70	0.00 9.37	0.00 9.99	0.00 0.09	0.010	334.33	0.428	1.101	0	0
15 + 747.00 9.80	334.57 1.25	0.02 9.45	10.0 10.0	1.55 7.87	1.56 9.40	6.70 1.37	0.15 0.24	0.004	334.67	0.661	1.341	0	0
15 + 830.00 9.80	335.19 1.30	0.87 6.98	10.0 10.0	4.81 4.64	4.87 19.82	4.63 5.47	0.45 1.51	0.000	335.27	0.634	2.506	0	0
15 + 884.00 9.80	335.49 1.51	0.50 6.22	10.0 10.0	9.82 6.00	9.86 23.91	2.71 11.44	0.19 0.27	0.000	335.52	0.305	2.347	0	0
15 + 928.00 9.80	335.61 1.06	0.00 7.01	10.0 10.0	0.40 12.10	0.45 12.35	0.04 8.44	0.12 0.83	0.000	335.63	0.339	1.716	0	0
15 + 988.00 9.80	335.88 1.05	0.00 8.62	10.0 10.0	0.00 7.35	0.00 24.71	5.04 3.45	0.00 1.71	0.000	336.01	1.000	1.943	4	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++													
!!! ProfiLabstand zum Ow ueberpruefen !!!													
16 + 43.00 9.80	336.24 1.16	1.41 7.29	10.0 10.0	5.64 6.78	5.75 7.03	3.02 6.15	0.47 1.18	0.000	336.30	0.559	2.210	0	0
16 + 99.00 9.80	336.63 1.28	0.01 8.91	10.0 10.0	0.83 5.26	0.84 6.03	0.07 5.26	0.19 1.69	0.000	336.76	1.000	2.064	4	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++													
!!! ProfiLabstand zum Ow ueberpruefen !!!													
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STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009													
Seite 59													

Ster0001.001

PROJEKT Kl-Strieg
ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

SEITE 48

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ERGEBNISSE

STATION	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-HOEHEN NN+m	PROUDE IE o/oo	ALPHA	KZW	KZD
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16 + 135.00 9.80	336.83 1.31	0.50 7.68	10.0 10.0	8.06 7.38	8.08 8.09	2.28 8.23	0.22 0.93	0.000	336.86	0.404	2.292	0	0
16 + 220.00 9.80	337.21 1.26	0.00 9.21	10.0 10.0	0.00 9.14	0.00 9.39	0.00 7.29	0.00 1.26	0.010	337.28	0.663	1.547	0	0
16 + 303.50 9.80	337.78 1.39	0.00 7.92	10.0 10.0	0.00 5.65	0.00 18.53	0.00 5.98	0.00 1.32	0.000	337.85	0.559	1.927	0	0
16 + 359.00 9.80	338.09 1.42	0.11 5.85	10.0 10.0	14.99 5.57	14.99 6.39	1.13 6.12	0.10 0.96	0.000	338.12	0.392	2.429	0	0
16 + 429.00 9.80	338.45 1.25	0.00 8.09	10.0 10.0	0.00 4.57	0.00 26.10	4.38 4.51	0.00 1.85	0.000	338.59	1.000	2.337	4	0

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

!!! ProfiLabstand zum Ow ueberpruefen !!!

16 + 514.00 9.80	338.92 1.08	0.00 4.30	10.0 10.0	0.00 9.91	0.00 10.63	0.00 6.61	0.00 0.83	0.000	338.94	0.300	1.544	0	0
16 + 546.50 9.80	339.11 1.14	0.18 6.13	10.0 10.0	2.93 3.71	2.97 4.32	0.52 3.51	0.35 1.74	0.005	339.21	0.771	2.710	0	0
16 + 583.00 9.80	339.46 1.35	0.00 4.55	10.0 10.0	0.00 5.56	0.00 6.27	0.00 5.83	0.00 0.78	0.000	339.48	0.230	1.794	0	0
16 + 618.00 9.80	339.53 1.28	0.00 7.32	10.0 10.0	0.00 7.99	0.00 8.50	0.00 7.12	0.00 1.03	0.004	339.57	0.453	1.655	0	0

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STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS	KZW	KZD
16 + 696.50	339.81	0.62	17.0	4.86	4.89	1.25	0.50	0.001	339.88	0.668	2.089	0	0
9.80	1.23	2.91	17.0	4.81	5.20	4.40	1.42	0.45		5.25	1.328		
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STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009													
PROJEKT Kl-strieg													
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m													
VARIANTE HQ 10 1st													
DATEI Ster0001													
ERGEBNISSE													
SEITE 49													

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS	KZW	KZD
16 + 757.50	340.11	0.32	17.0	6.71	6.72	1.02	0.32	0.000	340.18	0.645	2.033	0	0
9.80	1.27	2.30	17.0	6.39	6.70	5.63	1.27	0.39		4.23	1.331		
16 + 807.00	340.30	2.03	17.0	22.06	22.07	7.56	0.27	0.000	340.31	0.242	1.797	0	0
9.80	1.25	3.60	17.0	5.76	6.79	6.23	0.27		1.04	1.04	1.221		
16 + 892.50	340.52	0.27	17.0	12.77	12.80	1.09	0.25	0.043	340.64	0.905	1.425	0	0
9.80	1.39	0.12	17.0	6.16	6.69	6.05	0.22		5.72	5.72	1.177		
16 + 962.00	340.88	0.07	17.0	13.54	14.67	0.75	0.09	0.000	340.90	0.336	1.516	0	0
9.80	1.69	3.05	17.0	5.38	6.01	9.63	0.31		1.74	1.74	1.174		
17 + 18.50	341.01	0.00	17.0	0.00	0.00	0.00	0.00	0.025	341.09	0.637	1.151	0	0
9.80	1.29	0.12	17.0	8.20	8.91	7.54	0.17		4.25	4.25	1.068		
17 + 86.00	341.42	1.06	17.0	17.88	17.88	2.71	0.39	0.000	341.52	1.000	2.143	4	0
8.89	1.06	7.42	17.0	5.38	6.01	4.83	1.54		6.52	6.52	1.390		
+++++++ Engstelle mit Fluesswechsel, Energieminimum > EH(UW) !!! Profilstand zum Uw ueberpruefen !!! ++++++													
0.00 17.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00													
Ster0001.001													
Seite 61													

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS	KZW	KZD
17 + 209.50	342.22	7.55	22.0	6.81	7.19	4.09	1.85	0.000	342.37	1.000	1.486	4	0
8.89	0.95	1.34	17.0	14.18	14.19	2.22	0.60		14.94	14.94	1.177		
17 + 284.00	342.80	0.06	17.0	7.65	7.65	0.29	0.19	0.000	342.88	1.000*	2.350	4	0
6.99	0.96	2.06	17.0	5.16	5.71	3.27	1.49		9.70	9.70	1.411		
17 + 424.00	344.01	0.43	17.0	15.71	15.71	1.29	0.33	0.000	344.11	1.000*	2.266	4	0
6.99	0.95	2.08	17.0	3.95	4.42	2.71	1.66		10.86	10.86	1.379		
17 + 466.00	344.57	0.95	17.0	29.86	29.86	2.94	0.32	0.000	344.66	1.000*	2.545	4	0
6.99	1.21	5.09	17.0	3.93	4.93	3.35	1.52		7.98	7.98	1.470		
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STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009													
PROJEKT Kl-strieg													
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m													
VARIANTE HQ 10 1st													
DATEI Ster0001													
ERGEBNISSE													
SEITE 50													

STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS	KZW	KZD
17 + 469.00	344.80	2.08	17.0	19.68	19.69	2.32	0.90	0.000	344.88	1.000*	1.106	4	0
6.99	0.39	0.96	17.0	7.29	7.29	0.84	1.14		48.21	48.21	1.036		
17 + 472.00	344.87	1.76	17.0	19.77	19.79	6.42	0.27	0.000	344.88	0.220	1.417	0	0
6.99	1.33	3.12	17.0	7.08	7.78	5.33	0.58		1.17	1.17	1.125		
17 + 550.00	345.00	2.64	17.0	19.34	19.34	6.72	0.39	0.000	345.01	0.268	1.282	0	0
6.99	1.05	2.69	17.0	8.42	9.16	4.33	0.62		2.18	2.18	1.087		
17 + 587.00	345.10	0.00	17.0	0.00	0.00	0.00	0.00	0.000	345.36	1.000	1.127	4	0
6.99	0.99	6.82	17.0	3.42	4.78	2.95	2.31		21.05	21.05	1.054		
+++++++ Engstelle mit Fluesswechsel, Energieminimum > EH(UW) ++++++													
Seite 62													

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 /0.53/s	m	m	m ²	m/s	m	NN+M	IE o/oo	ALPHAS		
17 + 593.00	345.45	0.00	17.0	0.00	0.00	0.00	0.00	0.000	345.60	1.000	1.736	4	0
6.99	1.32	5.60	22.0	2.79	4.75	2.99	1.87	0.000	345.60	13.44	1.254	4	0
		1.39	17.0	15.72	15.74	2.44	0.57						
17 + 598.00	345.55	0.00	17.0	0.00	0.00	0.00	0.00	0.000	345.62	0.687	1.704	0	0
6.99	1.47	6.25	22.0	4.73	5.88	5.02	1.25	0.000	345.62	3.97	1.263	0	0
		0.74	17.0	20.86	21.05	2.70	0.27						
17 + 700.00	345.99	1.69	17.0	17.64	17.73	3.99	0.42	0.000	346.05	0.645	2.265	0	0
6.99	1.03	4.33	22.0	3.61	3.86	3.26	1.33	0.000	346.05	4.57	1.369	0	0
		0.97	17.0	13.26	13.27	2.54	0.38						
17 + 799.00	346.87	0.00	17.0	0.00	0.00	0.00	0.00	0.000	347.01	1.000	1.336	4	0
6.99	0.91	6.22	22.0	7.25	7.51	3.54	1.76	0.000	347.01	17.45	1.128	4	0
		0.77	17.0	9.57	9.58	1.30	0.59						
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++													
17 + 828.00	347.49	0.00	17.0	0.00	0.00	0.00	0.00	0.000	347.61	1.000	1.939	4	0
6.99	1.40	5.72	22.0	3.40	4.76	3.35	1.71	0.000	347.61	9.66	1.322	4	0
		1.27	17.0	21.67	21.68	2.90	0.44						
17 + 832.00	347.64	0.00	17.0	0.00	0.00	0.00	0.00	0.000	347.68	0.000	1.033	11	0
6.99	1.43	6.56	22.0	27.34	56.21	7.73	0.85	0.000	347.68	20.97	1.012	11	0
		0.43	17.0	7.79	7.81	0.80	0.54						

Ster0001.001

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009

datum : 22.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

SEITE 51

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 /0.53/s	m	m	m ²	m/s	m	NN+M	IE o/oo	ALPHAS		
17 + 836.00	347.71	0.02	17.0	1.96	1.97	0.19	0.11	0.000	347.73	0.257	1.650	9	0
6.99	1.36	4.48	22.0	6.32	7.23	6.77	0.66	0.000	347.73	0.99	1.207	9	0
		2.48	17.0	25.91	25.92	9.24	0.27						
				0.13	17.0	8.70	0.81	0.17					

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17 + 909.00 347.82 6.46 22.0 12.41 13.42 8.45 * 0.76 0.002 347.85 0.390 1.305 0 0

Ster0001.001

17 + 975.00 348.32 0.00 17.0 0.00 0.00 0.00 0.00 0.000 348.64 1.000 1.000 4 0

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

17 + 982.00	348.77	0.00	17.0	0.00	0.00	0.00	0.00	0.000	348.86	0.000	1.000	11	0
6.99	1.42	6.99	18.0	7.23	15.07	5.43	1.29	0.000	348.86	19.98	1.000	11	0
		0.00	17.0	0.00	0.00	0.00	0.00						

17 + 989.00	348.98	0.72	17.0	16.37	16.38	1.49	0.48	0.000	349.10	1.000	1.400	4	0
6.99	1.41	6.27	18.0	5.70	7.50	3.87	1.62	0.000	349.10	19.61	1.153	4	0
		0.00	17.0	0.00	0.00	0.00	0.00						

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

!!! Profiltabstand zum Ow ueberpruefen !!!

18 + 74.00	349.44	3.68	17.0	29.61	30.17	4.49	0.82	0.000	349.53	1.000	1.531	4	0
6.99	0.70	3.31	18.0	3.85	4.75	1.86	1.78	0.000	349.53	29.53	1.158	4	0
		0.00	17.0	0.00	0.00	0.00	0.00						
18 + 171.00	350.95	2.75	17.0	28.63	28.66	4.02	0.69	0.000	351.05	1.000*	1.683	4	0
6.99	0.77	4.24	18.0	4.42	4.94	2.49	1.70	0.000	351.05	22.32	1.212	4	0
		0.00	17.0	0.41	0.41	0.00	0.05						
18 + 173.00	351.02	3.42	17.0	16.63	16.65	4.37	0.78	0.000	351.09	0.626	1.321	11	0
6.99	0.97	3.22	18.0	2.60	4.25	2.36	1.37	0.000	351.09	12.62	1.101	11	0
		0.35	17.0	5.16	5.16	0.69	0.50						
18 + 175.00	351.08	3.47	17.0	28.79	28.79	9.89	0.35	0.000	351.09	0.244	1.362	0	0
6.99	1.06	2.06	18.0	3.74	4.11	3.21	0.64	0.000	351.09	1.77	1.104	0	0
		1.46	17.0	20.90	20.91	5.18	0.28						
18 + 177.00	351.09	3.50	17.0	29.26	29.27	10.85	0.32	0.000	351.09	0.211	1.332	0	0
6.99	1.10	1.94	18.0	3.74	4.11	3.35	0.58	0.000	351.09	1.35	1.096	0	0
		1.56	17.0	22.53	22.54	6.01	0.26						

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009

datum : 22.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m

Seite 64

VARIANTE HQ_10_1st
DATEI Ster0001

Ster0001.001
SEITE 52

===== ERGEBNISSE =====
STATION WSPLAGE/H ABFLUSS K-WERT BREITE UMFANG FLAECHE GESCHW HZV E-HOEH E-ROUDE 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

18 + 226.00 351.27 1.95 17.0 13.37 13.38 2.37 * 0.82 0.00 351.42 1.000 1.469 1.158
6.99 1.01 0.00 17.0 0.00 0.00 0.00 0.00 0.00

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

18 + 229.00 351.53 2.30 17.0 21.12 22.28 4.42 * 0.52 0.00 351.65 1.000 2.584 4 0
6.99 1.26 0.10 17.0 8.10 2.02 2.49 * 1.84 0.00 8.10 1.461

18 + 232.00 351.64 3.60 17.0 22.33 22.37 9.40 0.38 0.00 351.65 0.234 1.296 0 0
6.99 1.35 0.98 17.0 13.14 4.46 3.74 0.64 0.28

18 + 234.00 351.64 3.99 17.0 20.98 21.42 10.22 0.39 0.00 351.65 0.222 1.274 0 0
6.99 1.31 0.72 17.0 13.00 4.21 3.68 0.62 0.24

18 + 274.00 351.80 2.78 17.0 21.42 21.46 4.86 * 0.57 0.00 351.86 0.583 1.510 0 0
6.99 1.45 0.21 17.0 3.20 4.78 3.30 1.27 0.00 8.21 1.162

18 + 277.00 351.91 0.00 17.0 0.00 0.00 0.00 0.00 0.00 352.01 0.000 1.000 11 0
6.99 1.52 0.00 17.0 17.86 38.05 5.12 1.36 0.13

18 + 280.00 352.14 3.17 17.0 22.52 22.52 10.04 0.32 0.00 352.15 0.198 1.343 9 0
6.99 1.84 0.69 17.0 12.31 12.43 3.16 * 0.22 0.00 1.01 1.108

18 + 282.00 352.14 2.90 17.0 22.52 22.52 10.13 0.29 0.00 352.15 0.178 1.340 0 0
6.37 1.84 0.63 17.0 12.43 12.55 3.21 * 0.20 0.00 0.82 1.107

18 + 297.00 352.16 2.27 17.0 20.81 20.82 7.58 0.30 0.00 352.17 0.224 1.430 0 0
5.67 1.15 0.56 17.0 9.83 9.84 2.43 0.23 0.00 1.19 1.133

18 + 366.00 352.33 0.00 17.0 0.00 0.00 0.00 0.00 0.00 352.64 1.000 1.000 4 0
5.67 0.73 0.00 17.0 3.77 4.57 2.31 2.45 0.00 46.04 1.000

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Ster0001.001

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

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STATIONNAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Krauf 2009 DATUM : 22.06.2009

PROJEKT K1-strieg + 1.00 bis 0 + 23380.00 m
ZUSTAND Station 0
VARIANTE HQ_10_1st
DATEI Ster0001

SEITE 53

===== ERGEBNISSE =====

STATION WSPLAGE/H ABFLUSS K-WERT BREITE UMFANG FLAECHE GESCHW HZV E-HOEH E-ROUDE 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

18 + 377.00 353.40 5.67 17.0 24.40 24.43 9.16 * 0.62 0.00 353.42 0.326 1.002 0 0
5.67 0.04 0.00 17.0 0.54 0.56 0.01 0.09 0.00 4.91 1.001

18 + 380.00 353.41 1.15 17.0 24.58 24.68 4.76 * 0.24 0.00 353.43 0.344 1.627 0 0
5.67 1.75 0.00 17.0 4.61 6.68 6.20 0.73 0.00 1.82 1.218

18 + 421.00 353.59 0.00 17.0 0.00 0.00 0.00 0.00 0.00 353.69 0.449 1.000 0 0
5.67 1.28 0.00 17.0 4.25 5.72 4.10 1.38 0.00 9.19 1.000

18 + 423.00 353.61 0.00 17.0 0.00 0.00 0.00 0.00 0.00 353.73 0.000 1.000 11 0
5.67 1.33 0.00 17.0 3.70 9.23 3.85 1.47 0.00 21.43 1.000

18 + 427.00 353.77 1.24 17.0 18.02 18.03 5.03 0.25 0.00 353.78 0.270 1.706 9 0
5.67 1.43 0.63 17.0 4.96 5.54 5.95 0.64 0.23 1.14 1.226

18 + 539.00 354.30 0.00 17.0 0.00 0.00 0.00 0.00 0.00 354.45 1.000 1.001 4 0
5.67 0.65 0.00 17.0 11.43 11.66 3.35 1.69 0.00 46.79 1.001

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

18 + 622.00 355.27 0.00 17.0 0.00 0.00 0.00 0.00 0.00 355.59 1.000 1.000 4 0
5.67 18.0 5.67 18.0 3.48 4.38 2.25 2.52 0.000 46.79 1.000

Seite 66

Ster0001.001												
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	PROUDE	ALPHA	KZW
ABFLUSS	NN+m/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS	KZD
18 + 632.00	355.78	0.00	17.0	0.00	0.00	0.00	0.00	0.000	355.88	0.367	1.000	12 0
5.67	1.38	0.00	17.0	0.00	0.00	0.00	0.00	0.000	9.58	1.000		
18 + 638.00	355.88	0.00	17.0	0.00	0.00	0.00	0.00	0.000	355.95	0.376	1.000	0 0
5.67	1.21	0.00	17.0	0.00	0.00	0.00	0.00	0.000	5.58	1.000		
18 + 682.00	356.36	0.06	17.0	2.15	2.16	0.15	0.42	0.023	356.54	0.777	1.070	0 0
5.67	1.37	0.00	18.0	3.10	4.72	2.97	1.89		20.44	1.031		
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STATIONAERE WASSERSPIEGELLAGEN												
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009												
PROJEKT K1-strieg												
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m												
VARIANTE HQ 10 1st												
DATEI Ster0001												
ERGEBNISSE												
SEITE 54												
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++												
18 + 685.00	356.73	0.65	17.0	5.18	5.18	0.70	0.93	0.000	356.83	1.000	1.136	4 0
5.67	0.33	1.43	17.0	7.77	7.24	1.29	1.11		42.45	1.046		
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++												
18 + 688.00	356.83	0.64	17.0	15.57	15.79	3.48	0.18	0.000	356.84	0.230	1.703	0 0
5.67	1.79	3.11	18.0	3.36	4.43	5.21	0.60		0.89	1.216		
18 + 690.00	356.83	0.62	17.0	14.09	14.31	3.20	0.20	0.000	356.84	0.240	1.703	0 0
5.67	1.77	3.19	18.0	3.36	4.43	5.14	0.62		0.97	1.216		
18 + 756.00	356.93	0.40	17.0	0.00	0.00	0.00	0.00	0.000	357.07	1.000	1.384	4 0
5.67	0.79	4.00	18.0	4.14	4.62	2.39	1.84		25.03	1.135		
Seite 67												

Ster0001.001												
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITTE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	PROUDE	ALPHA	KZW
ABFLUSS	NN+m/m	m ³ /s	m ³ /s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS	KZD
18 + 814.00	357.84	0.00	17.0	0.00	0.00	0.00	0.00	0.003	357.98	0.606	1.000	0 0
5.67	1.05	0.00	17.0	0.00	0.00	0.00	0.00		15.69	1.000		
18 + 817.00	358.47	4.07	17.0	18.76	18.77	3.32	1.23	0.000	358.56	1.000	1.040	4 0
5.67	0.23	1.37	18.0	4.95	4.98	1.07	1.47		52.34	1.015		
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++												
18 + 820.00	358.56	2.36	17.0	29.50	29.50	9.07	0.26	0.000	358.57	0.237	1.651	0 0
5.67	1.74	0.43	18.0	4.40	5.44	5.03	0.57		1.12	1.195		
18 + 876.00	358.73	0.83	17.0	10.11	10.16	1.93	0.43	0.006	358.77	0.559	1.675	0 0
5.67	1.04	3.75	18.0	4.60	5.14	3.49	1.07		5.95	1.216		
18 + 942.00	359.22	0.00	17.0	0.00	0.00	0.00	0.00	0.000	359.55	1.000	1.000	4 0
5.67	0.85	0.67	18.0	3.45	4.21	2.24	2.53		45.53	1.000		
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++												
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STATIONAERE WASSERSPIEGELLAGEN												
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009												
PROJEKT K1-strieg												
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m												
VARIANTE HQ 10 1st												
DATEI Ster0001												
ERGEBNISSE												
SEITE 55												
18 + 947.00	359.47	0.00	17.0	0.00	0.00	0.00	0.00	0.000	359.74	0.782	1.000	11 0
5.67	1.06	0.00	18.0	2.83	4.21	2.47	2.29		32.92	1.000		
Seite 68												

18 + 952.00	359.75	5.67	18.0	5.84	6.36	4.12	1.38	0.000	359.84	0.533	1.001	0
5.67	1.04	0.00	17.0	0.00	0.00	0.00	0.00	0.00	10.43	1.000	1.000	0
19 + 4.00	360.24	0.01	17.0	1.81	1.82	0.08	0.18	0.000	360.32	0.513	1.027	0
5.67	1.12	0.00	17.0	0.00	0.00	0.00	0.00	0.000	7.63	1.012	1.012	0
19 + 5.00	360.45	1.03	17.0	22.32	22.33	2.04	0.51	0.000	360.54	1.000	1.528	4
5.67	1.32	0.66	17.0	0.00	0.00	0.00	0.00	0.000	21.43	1.188	1.188	0
+++++++	Engstelle mit Flüsswechsel, Energieminimum > EH(UW)						+++++++					
19 + 6.00	360.48	1.36	17.0	24.77	24.77	2.68	0.51	0.000	360.57	1.000	1.746	4
5.67	1.34	4.30	18.0	3.56	5.49	2.84	1.52	0.000	17.16	1.251	1.251	0
19 + 16.00	360.58	2.67	17.0	28.92	28.95	7.35	0.36	0.000	360.60	0.327	1.393	0
5.67	1.35	0.02	17.0	5.14	3.68	0.15	0.11	0.000	2.83	1.124	1.124	0
19 + 19.00	360.59	5.59	17.0	27.29	27.30	6.64	0.84	0.006	360.63	0.608	1.055	0
5.67	0.04	0.00	17.0	8.77	8.78	0.33	0.26	0.000	16.10	1.023	1.023	0
19 + 22.00	360.64	2.54	17.0	26.37	26.38	6.58	0.39	0.000	360.66	0.359	1.397	0
5.67	1.33	0.01	18.0	5.01	6.49	4.11	0.76	0.000	3.28	1.127	1.127	0
19 + 61.00	361.14	1.07	17.0	27.07	27.11	2.70	0.39	0.000	361.24	1.000	1.927	4
5.67	1.26	4.60	18.0	2.68	4.50	3.06	1.50	0.000	11.64	1.317	1.317	0
+++++++	Engstelle mit Flüsswechsel, Energieminimum > EH(UW)						+++++++					
19 + 64.00	361.23	5.53	17.0	25.91	25.91	4.48	1.24	0.000	361.31	1.000	1.039	4
5.67	0.17	0.14	18.0	5.02	5.03	0.24	0.56	0.000	54.86	1.015	1.015	0
<p>ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0</p>												
<p>STATIONAERE WASSERSPIEGELLAGEN</p>												
<p>PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009</p>												
<p>PROJEKT Kl-strieg Station 0 + 1.00 bis 0 + 23380.00 m</p>												
<p>ZUSTAND Station 0</p>												
<p>VARIANTE HQ 10 ist</p>												
<p>Seite 69</p>												

DATEI	Ster0001	STER0001.001										
ERGEBNISSE												
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	FRUDE	ALPHA	KZW
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	KZD
19 + 67.00	361.30	2.11	17.0	26.68	26.70	6.84	0.31	0.000	361.32	0.344	1.749	0
5.67	1.42	3.44	18.0	3.93	4.86	4.47	0.72	0.000	2.02	1.232	1.232	0
19 + 123.00	361.75	0.10	17.0	2.71	2.72	0.24	0.43	0.000	361.88	1.000	1.498	4
5.67	1.05	4.83	18.0	4.01	4.40	2.81	1.72	0.000	16.53	1.182	1.182	0
+++++++	Engstelle mit Flüsswechsel, Energieminimum > EH(UW)						+++++++					
<p>iiii Profiltabstand zum Ow ueberpruefen!!!!</p>												
19 + 180.00	362.60	0.00	17.0	0.00	0.00	0.00	0.00	0.008	362.75	0.662	1.006	0
5.67	1.34	0.00	17.0	1.04	1.04	0.01	0.10	0.000	15.17	1.003	1.003	0
19 + 185.00	362.72	0.00	17.0	0.00	0.00	0.00	0.00	0.000	362.85	0.000	1.000	11
5.67	1.41	5.67	18.0	3.20	8.29	3.54	1.60	0.000	24.63	1.000	1.000	0
19 + 190.00	362.86	0.27	17.0	11.24	11.25	0.94	0.28	0.000	362.94	0.729	1.483	9
5.67	1.30	4.98	18.0	2.98	4.82	3.74	1.33	0.000	7.68	1.183	1.183	0
19 + 224.00	363.11	0.48	17.0	11.97	11.98	1.47	0.33	0.000	363.18	0.606	1.510	0
5.67	1.34	4.68	18.0	2.98	4.82	3.87	1.21	0.000	6.02	1.186	1.186	0
19 + 228.00	363.35	4.03	17.0	15.29	15.32	3.11	1.30	0.000	363.43	1.000	1.057	4
5.67	0.22	1.54	18.0	8.10	8.12	1.31	1.18	0.000	48.84	1.023	1.023	0
+++++++	Engstelle mit Flüsswechsel, Energieminimum > EH(UW)						+++++++					
19 + 232.00	363.43	1.45	25.0	12.67	12.82	3.88	0.37	0.000	363.44	0.281	1.317	0
5.67	1.49	3.20	22.0	8.86	4.87	4.57	0.70	0.000	1.10	1.102	1.102	0
19 + 274.00	363.61	0.82	25.0	8.62	8.73	1.14	0.72	0.000	363.73	1.000	1.443	4
5.67	0.75	4.15	22.0	3.65	3.94	2.38	1.75	0.000	12.31	1.151	1.151	0
+++++++	Engstelle mit Flüsswechsel, Energieminimum > EH(UW)						+++++++					
<p>Seite 70</p>												

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009

PROJEKT K1-strieg + 1.00 bis 0 + 23380.00 m
 ZUSTAND Station 0
 VARIANTE HQ 10 1st
 DATEI Ster0001

SEITE 57

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ERGEBNISSE

STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /0.33/s	BREITHE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHHE NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
19 + 311.00	364.08	0.00	25.0	0.00	0.00	0.00	0.00	0.00	364.28	0.664	1.000	0 0
	5.67	5.67	22.0	3.37	4.62	2.93	1.94	0.022	364.28	14.25	1.000	0 0
	1.04	0.00	25.0	0.00	0.00	0.00	0.00	0.00	364.28	14.25	1.000	0 0
19 + 315.00	364.65	1.60	25.0	10.13	10.20	1.50	1.07	0.000	364.76	1.000	1.105	4 0
	5.67	2.34	22.0	4.05	4.74	1.40	1.67	0.000	364.76	23.60	1.034	4 0
	0.36	1.73	25.0	6.72	6.74	1.33	1.30	0.000	364.76	23.60	1.034	4 0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)												
19 + 323.00	364.74	1.11	25.0	16.24	16.25	3.22	0.35	0.000	364.77	0.397	1.492	0 0
	5.67	3.92	22.0	3.62	4.70	4.51	0.87	0.000	364.77	1.65	1.164	0 0
	1.69	0.64	25.0	5.22	5.25	1.47	0.44	0.000	364.77	1.65	1.164	0 0
19 + 369.00	364.87	2.02	25.0	18.13	18.14	3.58	0.56	0.001	364.91	0.593	1.489	0 0
	5.67	3.16	22.0	3.04	4.09	2.79	1.14	0.001	364.91	4.44	1.157	0 0
	1.24	0.49	25.0	9.54	9.54	1.18	0.41	0.000	364.91	4.44	1.157	0 0
19 + 455.00	365.34	0.74	25.0	18.59	18.59	1.35	0.55	0.000	365.42	1.000	1.303	4 0
	4.77	4.03	22.0	8.90	9.00	3.02	1.34	0.000	365.42	15.86	1.111	4 0
	0.61	0.00	25.0	0.00	0.00	0.00	0.00	0.000	365.42	15.86	1.111	4 0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) !! Profilstabstand zum OW ueberpruefen !!												
19 + 556.00	366.99	0.00	25.0	0.00	0.00	0.00	0.00	0.000	367.20	1.000	1.000	4 0
	4.22	4.22	22.0	4.82	5.13	2.06	2.05	0.000	367.20	29.23	1.000	4 0
	0.86	0.00	25.0	0.00	0.00	0.00	0.00	0.000	367.20	29.23	1.000	4 0
	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.000	367.20	29.23	1.000	4 0
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Seite 71

STER0001.001

19 + 560.00	367.14	4.22	22.0	2.55	4.86	2.45	1.72	0.000	367.30	0.561	1.000	12 0
	4.22	0.00	22.0	0.00	0.00	0.00	0.00	0.000	367.30	15.31	1.000	12 0
19 + 564.00	367.17	0.00	25.0	0.00	0.00	0.00	0.00	0.003	367.37	0.717	1.000	0 0
	4.22	4.22	22.0	2.74	4.15	2.13	1.98	0.000	367.37	19.66	1.000	0 0
	0.85	0.00	25.0	0.00	0.00	0.00	0.00	0.000	367.37	19.66	1.000	0 0
19 + 587.00	367.62	0.00	25.0	0.00	0.00	0.00	0.00	0.000	367.77	0.611	1.000	0 0
	4.22	4.22	22.0	3.07	4.74	2.46	1.71	0.000	367.77	14.52	1.000	0 0
	1.06	0.00	25.0	0.00	0.00	0.00	0.00	0.000	367.77	14.52	1.000	0 0
19 + 611.00	367.95	0.15	25.0	6.05	6.11	0.46	0.34	0.000	368.01	0.904	1.496	0 0
	4.22	3.87	22.0	4.48	5.54	3.28	1.18	0.000	368.01	5.76	1.193	0 0
	1.14	0.20	25.0	18.10	18.14	0.82	0.24	0.000	368.01	5.76	1.193	0 0

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009

PROJEKT K1-strieg + 1.00 bis 0 + 23380.00 m
 ZUSTAND Station 0
 VARIANTE HQ 10 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 /0.33/s	BREITHE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHHE NN+m	FRUDE IE o/oo	ALPHA ALPHAS	KZW KZD
19 + 626.00	368.05	0.37	25.0	9.64	9.66	1.43	0.26	0.000	368.06	0.321	1.442	0 0
	4.22	2.32	22.0	4.79	5.39	3.68	0.63	0.000	368.06	1.37	1.139	0 0
	1.08	1.53	25.0	23.82	23.83	4.81	0.32	0.000	368.06	1.37	1.139	0 0
19 + 641.00	368.07	0.37	25.0	11.15	11.15	1.91	0.20	0.000	368.07	0.203	1.270	0 0
	4.22	1.77	22.0	5.10	5.32	3.89	0.45	0.000	368.07	0.65	1.085	0 0
	0.94	2.08	25.0	26.20	26.32	7.53	0.28	0.000	368.07	0.65	1.085	0 0
19 + 726.00	368.54	0.00	25.0	0.00	0.00	0.00	0.00	0.000	368.76	1.000	1.000	4 0
	4.22	4.22	22.0	4.57	4.86	2.02	2.08	0.000	368.76	28.83	1.000	4 0
	0.60	0.00	25.0	0.00	0.00	0.00	0.00	0.000	368.76	28.83	1.000	4 0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) !! Profilstabstand zum OW ueberpruefen !!												
19 + 752.00	368.99	0.00	25.0	0.00	0.00	0.00	0.00	0.000	369.12	0.709	1.000	0 0
	4.22	4.22	22.0	5.03	5.39	2.63	1.60	0.000	369.12	0.709	1.000	0 0
	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.000	369.12	0.709	1.000	0 0

Seite 72

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ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECH	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ² 0.33/s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS	KZW	KZD
20 + 188.00	374.06	0.00	17.0	0.00	0.00	0.00	0.00	0.00	374.19	0.672	1.000	0.00	0
4.22	0.78	0.00	22.0	4.20	4.80	2.56	1.65	0.002	374.19	12.90	1.000	0.00	0
20 + 214.00	374.72	0.00	17.0	0.00	0.00	0.00	0.00	0.000	374.97	1.000	1.000	0.00	4
4.22	0.62	0.00	17.0	0.00	0.00	0.00	0.00	0.000	374.97	29.80	1.000	0.00	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
20 + 218.00	375.10	0.10	17.0	0.61	0.74	0.13	0.79	0.000	375.38	1.000	1.105	0.00	4
4.22	0.87	0.10	22.0	2.77	1.72	1.72	2.38	0.000	375.38	22.03	1.044	0.00	5
20 + 222.00	375.30	0.00	17.0	0.00	0.00	0.00	0.00	0.000	375.42	0.626	1.000	0.00	0
4.22	1.10	0.00	17.0	4.48	5.20	2.75	1.53	0.000	375.42	11.38	1.000	0.00	0
20 + 247.00	375.56	0.00	17.0	0.00	0.00	0.00	0.00	0.000	375.62	0.413	1.000	0.00	0
4.22	1.03	0.00	17.0	5.89	6.45	3.98	1.06	0.000	375.62	4.43	1.000	0.00	0
20 + 251.00	375.50	0.00	17.0	0.00	0.00	0.00	0.00	0.070	375.75	0.875	1.000	11	0
4.22	0.91	0.00	17.0	2.85	3.69	1.89	2.23	0.000	375.75	25.07	1.000	0.00	0
20 + 255.00	375.71	0.05	12.0	3.98	3.98	0.29	0.18	0.000	375.81	0.711	1.169	0.00	0
4.22	1.16	0.00	22.0	3.56	4.45	2.89	1.44	0.000	375.81	7.68	1.076	0.00	0
20 + 300.00	376.54	0.01	12.0	2.35	2.35	0.09	0.15	0.000	376.67	1.000	2.113	4	0
4.22	1.07	0.01	3.48	2.44	3.77	2.07	1.69	0.000	376.67	13.08	1.378	0.00	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
20 + 320.00	376.74	0.26	12.0	3.56	3.58	0.71	0.36	0.000	376.82	0.737	1.427	0	0
4.22	0.80	0.05	12.0	5.15	5.27	2.95	1.33	0.000	376.82	7.85	1.170	0.00	0
20 + 328.00	376.86	0.00	12.0	0.00	0.00	0.00	0.00	0.000	377.00	1.000	1.517	4	0
		3.60	22.0	4.36	5.15	2.00	1.80	0.000	377.00	1.000	1.517	4	0
Ster0001.001													
4.22	0.73	0.62	12.0	6.45	6.52	1.10	0.56	0.000	23.68	1.189			

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

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009

PROJEKT Kl-strieg
ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

SEITE 61

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ERGEBNISSE													
STATION	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECH	GESCHW	HZV	E-HOEHE	FRUDE	ALPHA	KZW	KZD
ABFLUSS	NN+m/m	m ³ /s	m ² 0.33/s	m	m	m ²	m/s	m	NN+m	IE o/oo	ALPHAS	KZW	KZD
20 + 330.00	376.98	0.35	12.0	4.74	4.80	1.00	0.34	0.000	377.06	0.712	2.453	0	0
4.22	0.80	3.10	22.0	3.18	3.21	2.21	1.40	0.000	377.06	6.63	1.447	0	0
20 + 332.00	377.02	0.00	12.0	0.00	0.00	0.00	0.00	0.000	377.07	0.574	2.300	0	0
4.22	0.77	1.38	12.0	4.30	4.61	2.52	1.13	0.000	377.07	5.87	1.390	0	0
20 + 385.00	377.42	0.00	12.0	0.00	0.00	0.00	0.00	0.000	377.67	1.000	1.000	4	0
4.22	0.72	4.22	22.0	3.92	4.42	1.92	2.19	0.000	377.67	30.12	1.000	0.00	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
20 + 428.00	378.10	0.00	12.0	0.00	0.00	0.00	0.00	0.000	378.35	1.000	1.000	4	0
4.22	0.85	0.00	12.0	3.69	4.15	1.89	2.24	0.000	378.35	29.62	1.000	0.00	0
20 + 431.00	378.60	0.03	12.0	5.09	5.09	0.12	0.29	0.000	378.67	1.000*	1.071	4	0
4.22	0.28	1.00	20.3	7.12	7.15	3.04	1.33	0.000	378.67	85.33	1.027	0	0
20 + 434.00	378.65	0.01	12.0	3.57	3.60	0.11	0.05	0.000	378.67	0.333	2.127	0	0
4.22	1.31	3.13	22.0	5.03	5.51	4.34	0.72	0.000	378.67	1.48	1.361	0	0
		0.03	12.0	2.90	2.91	0.35	0.08	0.000					
Ster0001.001													
Seite 76													

20 + 436.00	378.66	2.76	22.0	6.08	6.62	5.42	0.51	0.000	378.67	0.196	2.001	0
4.22	1.28	1.43	12.0	20.74	20.74	8.32	0.17		0.70		1.308	0
20 + 499.00	379.13	0.40	12.0	0.00	0.00	0.00	0.00	0.000	379.24	1.000	2.166	4
4.22	0.67	0.82	12.0	15.27	15.30	2.14	0.39		14.23		1.387	0
++++++++	Engstelle mit Fließwechsel, Energieminimum > EH(UW) i i i Profiltabstand zum ow ueberpruefen i i i						++++++++					
20 + 558.00	379.69	0.00	12.0	0.00	0.00	0.00	0.00	0.000	379.78	1.000	2.858	4
4.22	0.90	1.10	12.0	25.40	25.42	3.28	0.34		12.07		1.551	0
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<p>STATIONAERE WASSERSPIEGELLAGEN PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009</p>												
<p>PROJEKT K1-strieg ZUSTAND Station 0 VARIANTE HQ 10 1st DATEI Ster0001</p>												
<p>===== ERGEBNISSE ===== SEITE 62</p>												
STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+m	PROUDE IE o/oo	ALPHA	KZW KZD
20 + 598.00	380.35	0.00	12.0	0.00	0.00	0.00	0.00	0.000	380.67	1.000*	1.000	4
4.22	0.85	0.00	12.0	2.61	0.00	1.68	0.00		34.97		1.000	0
20 + 603.00	380.61	0.00	12.0	0.00	0.00	0.00	0.00	0.000	380.81	0.635	1.000	11
4.22	1.09	0.22	12.0	2.32	0.00	2.19	1.93		17.59		1.000	0
20 + 608.00	380.64	0.00	12.0	0.00	0.00	0.00	0.00	0.014	380.94	0.835	1.000	0
4.22	1.01	0.00	12.0	1.94	0.00	1.72	0.00		32.61		1.000	0
20 + 674.00	382.03	1.23	12.0	15.12	15.13	8.20	0.15	0.000	382.04	0.129	2.282	0
4.22	1.43	1.15	12.0	3.60	17.95	4.25	0.43		0.35		1.333	0
20 + 722.00	382.10	0.00	12.0	0.00	0.00	0.00	0.00	0.000	382.39	1.000	1.000	4
4.22	0.84	0.00	12.0	2.96	3.61	1.75	2.41					0
<p>===== ERGEBNISSE ===== SEITE 77</p>												

4.22	0.84	0.00	12.0	0.00	0.00	0.00	0.00	0.000	31.51	1.000		
<p>++++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) Ster0001.001</p>												
20 + 725.10	382.54	0.00	12.0	0.00	0.00	0.00	0.00	0.000	382.64	0.000	1.008	11
4.22	1.24	0.01	12.0	12.16	0.51	3.00	1.41		74.86		1.004	0
20 + 728.00	382.68	0.04	12.0	2.98	2.98	0.24	0.18	0.000	382.77	0.686	1.524	9
4.22	1.31	0.25	12.0	4.22	4.23	0.81	0.31		6.06		1.207	0
20 + 733.00	382.69	0.00	12.0	1.38	1.38	0.03	0.09	0.008	382.83	0.852	1.235	0
4.22	1.19	0.09	12.0	2.76	3.37	0.34	0.26		10.32		1.102	0
20 + 753.00	382.93	0.00	12.0	0.00	0.00	0.00	0.00	0.020	383.16	0.837	1.005	0
4.22	1.01	0.00	12.0	2.67	0.42	2.00	2.11		20.96		1.002	0
20 + 758.00	383.40	1.13	12.0	17.83	17.83	2.01	0.56	0.000	383.48	1.000	1.792	4
4.22	0.25	2.10	12.0	6.30	8.31	1.34	1.57		39.94		1.231	0
<p>++++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW) ++++++</p>												
<p>ICL Ingenieur Consult Dr.-Ing. A. Kolbmueller GmbH Zwickauer Str. 16a * 09112 Chemnitz * Tel. 0371-69024-0</p>												
<p>STATIONAERE WASSERSPIEGELLAGEN PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009</p>												
<p>PROJEKT K1-strieg ZUSTAND Station 0 VARIANTE HQ 10 1st DATEI Ster0001</p>												
<p>===== ERGEBNISSE ===== SEITE 63</p>												
STATION ABFLUSS	WSPLAGE/H NN+m/m	ABFLUSS m ³ /s	K-WERT m ³ /s	BREITTE m	UMFANG m	FLAECHE m ²	GESCHW m/s	HZV m	E-HOEHE NN+m	PROUDE IE o/oo	ALPHA	KZW KZD
20 + 763.00	383.46	1.07	12.0	21.58	21.60	4.71	0.23	0.000	383.49	0.445	3.124	0
4.22	1.56	0.61	12.0	2.25	11.50	2.61	0.23		2.70		1.563	0
20 + 832.00	383.84	0.00	25.0	0.00	0.00	0.00	0.00	0.000	383.91	1.000	1.548	4
4.22	2.25	22.0	22.0	2.89	3.32	1.45	1.55					0
<p>===== ERGEBNISSE ===== SEITE 78</p>												


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+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)
||| Profilabstand 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 : 22.06.2009
PROJEKT Kl-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 10 1st
DATEI Ster0001
SEITE 65

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ERGEBNISSE
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STATION WSPLAGE/H ABFLUSS K-WERT BREITHE UMFANG FLAECHHE GESCHW HZV E-HOEHHE FROUDE 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
21 + 268.00 391.29 0.00 17.0 0.00 0.00 0.00 0.00 0.00 0.00 391.50 1.000 1.000 1.000 4 0
2.25 0.61 0.00 17.0 2.25 17.0 0.00 0.00 0.00 2.03 0.000 0.000 32.50 1.000
+++++++ ungewoehnlicher Wasserspiegelanstieg ++++++++
||| Profilabstaende ueberpruefen |||
21 + 270.00 391.43 0.00 17.0 0.00 0.00 0.00 0.00 0.00 0.00 391.74 1.000* 1.000 1.000 4 0
2.25 0.71 0.00 17.0 2.25 17.0 0.00 0.00 0.00 2.57 0.000 0.000 50.59 1.000
21 + 272.00 391.72 0.00 17.0 0.00 0.00 0.00 0.00 0.00 0.00 391.74 0.203 1.000 1.000 0 0
2.25 1.15 0.00 17.0 2.25 17.0 0.00 0.00 0.00 5.14 0.000 0.000 1.08 1.000
21 + 276.00 391.71 0.00 17.0 0.00 0.00 0.00 0.00 0.00 0.00 391.84 0.780 1.000 1.000 0 0
2.25 0.53 0.00 17.0 2.25 17.0 0.00 0.00 0.00 3.34 0.000 0.054 19.00 1.000
21 + 404.00 394.22 0.00 17.0 0.00 0.00 0.00 0.00 0.00 0.00 394.37 1.000 1.000 1.000 4 0
2.25 0.49 0.00 17.0 2.25 17.0 0.00 0.00 0.00 4.42 0.000 0.000 32.21 1.000
+++++++ ungewoehnlicher Wasserspiegelanstieg ++++++++
||| Profilabstaende ueberpruefen |||
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)
||| Profilabstand zum Ow ueberpruefen |||
SEITE 81

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21 + 512.00 397.09 0.46 17.0 18.76 18.76 1.32 0.34 0.000 397.15 1.000 1.842 1.842 4 0
2.25 0.51 0.00 17.0 1.79 4.61 4.78 1.20 0.000 14.16 1.287
+++++++ ungewoehnlicher Wasserspiegelanstieg ++++++++
||| Profilabstaende ueberpruefen |||
21 + 611.00 399.45 0.39 17.0 18.76 18.76 1.23 0.32 0.000 399.50 1.000* 1.842 1.842 4 0
2.09 0.50 0.00 17.0 1.70 4.61 4.77 1.16 0.000 13.34 1.290
+++++++ ungewoehnlicher Wasserspiegelanstieg ++++++++
||| Profilabstaende 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 : 22.06.2009
PROJEKT Kl-strieg
ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
VARIANTE HQ 10 1st
DATEI Ster0001
SEITE 66

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ERGEBNISSE
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STATION WSPLAGE/H ABFLUSS K-WERT BREITHE UMFANG FLAECHHE GESCHW HZV E-HOEHHE FROUDE 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
21 + 616.00 399.60 0.00 17.0 0.00 0.00 0.00 0.00 0.00 0.00 399.88 1.000* 1.000 1.000 4 0
2.09 0.54 0.00 17.0 2.09 17.0 0.00 0.00 0.00 1.56 0.000 0.000 53.43 1.000
21 + 621.00 399.87 0.07 17.0 2.73 2.75 0.38 0.19 0.000 399.89 0.303 1.146 1.146 0 0
1.68 0.70 0.00 17.0 1.61 4.98 5.20 0.61 0.000 1.86 1.060
21 + 722.00 401.47 0.00 17.0 0.00 0.00 0.00 0.00 0.00 0.00 401.64 1.000 1.000 1.000 4 0
1.68 0.44 0.00 17.0 1.68 2.79 3.10 1.81 0.000 33.62 1.000
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)
||| Profilabstand zum Ow ueberpruefen |||
21 + 833.00 404.11 0.00 17.0 0.00 0.00 0.00 0.00 0.00 0.00 404.27 1.000 1.000 1.000 4 0
1.68 22.0 3.21 3.40 0.97 1.72 0.000 33.62 1.000
SEITE 82

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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-HOEHEN NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
21 + 926.00	405.64	0.00	17.0	0.00	0.00	0.00	0.00	0.000	405.79	1.000*	1.000	4	0
1.68	0.48	0.00	17.0	0.00	3.40	0.97	1.72	0.00	32.62	1.000	1.000	4	0
21 + 938.00	405.86	0.00	17.0	0.00	0.00	0.00	0.00	0.004	406.07	0.772	1.000	30	5
1.68	0.80	0.00	35.0	0.00	2.33	0.84	2.01	0.00	12.88	1.000	1.000	4	0
21 + 942.00	406.09	0.00	25.0	0.00	2.70	0.88	1.92	0.000	406.28	1.000	1.000	4	0
1.68	0.58	0.00	25.0	0.00	2.33	0.88	1.92	0.00	34.15	1.000	1.000	4	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
21 + 943.00	406.54	0.00	25.0	0.00	2.98	0.91	0.00	0.000	406.71	1.000	1.000	4	0
1.68	0.69	0.00	22.0	0.00	2.63	0.98	1.84	0.00	33.98	1.000	1.000	4	0
21 + 951.00	406.78	0.00	25.0	0.00	3.24	1.29	0.00	0.000	406.84	1.000*	1.649	4	0
1.68	0.68	0.25	22.0	0.00	2.88	1.29	1.11	0.000	8.74	1.000*	1.234	4	0
Ster0001.001 0.00 32.60 1.000													
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STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009													
PROJEKT K1-strieg													
ZUSTAND Station 0													
VARIANTE HQ 10 1st													
DATEI Ster0001													
ERGEBNISSE													
SEITE 67													

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-HOEHEN NN+M	FRUDE IE o/oo	ALPHA	KZW	KZD
22 + 92.00	409.18	1.68	22.0	3.43	3.73	1.00	1.69	0.000	409.33	1.000*	1.000	4	0
1.68	0.39	0.00	25.0	0.00	0.00	0.00	0.00	0.000	34.16	1.000	1.000	4	0
22 + 140.00	410.25	0.00	25.0	0.00	0.00	0.00	0.00	0.000	410.43	1.000*	1.000	4	0
1.68	0.59	0.00	25.0	0.00	2.34	0.88	1.92	0.000	34.39	1.000	1.000	4	0
22 + 146.00	410.48	0.00	25.0	0.00	3.07	1.38	0.00	0.000	410.56	0.382	1.000	10	0
1.68	1.09	0.00	22.0	0.00	1.33	0.00	1.22	0.00	8.88	1.000	1.000	4	0
22 + 152.00	410.57	1.68	25.0	0.00	2.73	0.88	1.90	0.000	410.75	1.000	1.000	4	0
1.68	0.57	0.00	25.0	0.00	2.38	0.00	0.00	0.000	33.78	1.000	1.000	4	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
22 + 210.00	411.68	0.00	25.0	0.00	3.40	0.97	1.74	0.000	411.83	1.000	1.000	4	0
1.68	0.47	0.00	25.0	0.00	3.15	0.00	0.00	0.000	33.36	1.000	1.000	4	0
22 + 241.00	412.65	0.00	25.0	0.00	2.46	0.81	2.06	0.000	412.87	1.000*	1.000	4	0
1.68	0.65	0.00	25.0	0.00	1.87	0.00	0.00	0.000	38.41	1.000	1.000	4	0
22 + 255.00	413.10	0.00	25.0	0.00	2.11	0.70	2.41	0.003	413.40	1.000*	1.000	4	0
1.68	0.71	0.00	50.0	0.00	0.00	0.00	0.00	0.000	10.14	1.000	1.000	4	0
22 + 261.00	413.39	0.01	25.0	2.30	2.30	0.07	0.15	0.000	413.41	0.518	1.294	0	0
1.68	0.76	1.40	22.0	3.19	3.47	1.71	0.82	0.000	3.57	1.109	1.109	0	0
22 + 317.00	414.52	0.00	25.0	0.00	1.94	0.72	1.95	0.000	414.70	1.000	1.025	4	0
1.68	0.55	0.28	25.0	0.69	0.87	0.18	1.52	0.000	29.52	1.000	1.000	4	0
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													
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STATIONAERE WASSERSPIEGELLAGEN													
PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009													
PROJEKT K1-strieg													
Seite 84													

ZUSTAND Station 0 + 1.00 bis 0 + 23380.00 m
 VARIANTE HQ 10 1st
 DATEI Ster0001

Ster0001.001

SEITE 68

STATION WSPLAGE/H ABFLUSS K-WERT BREITE UMFANG FLAECHE GESCHW HZV E-HOEH E PROUDE ALPHA KZW KZD
 ABFLUSS NN+m/m m³/s m³0.33/s m m m² m/s m NN+m IE o/oo ALPHAS

22 + 394.00	415.78	0.05	25.0	0.32	0.45	0.05	0.99	0.000	415.94	1.000	1.027	4 0
1.68	0.43	0.00	25.0	2.60	0.00	0.90	1.81	0.00	29.47	1.010		
22 + 447.00	416.88	0.00	25.0	0.00	0.00	0.00	0.00	0.000	417.08	1.000*	1.000	4 0
1.68	0.63	0.00	22.0	2.18	0.00	0.86	1.96	0.00	34.63	1.000		
22 + 453.00	417.00	0.00	25.0	0.00	0.00	0.00	0.00	0.000	417.21	0.749	1.000	10 0
1.68	0.83	0.00	50.0	0.00	0.00	0.00	0.00	0.00	6.57	1.000		
22 + 459.00	417.22	0.00	25.0	0.00	0.00	0.00	0.00	0.000	417.41	1.000	1.000	4 0
1.68	0.57	0.00	22.0	2.30	0.00	0.87	1.93	0.00	34.24	1.000		

+++++++ Engstelle mit Fluesswechsel, Energieminimum > EH(UW)
 !! Profilabstand zum Ow ueberpruefen !!

22 + 509.00	418.19	0.00	25.0	0.00	0.00	0.00	0.00	0.000	418.38	1.000	1.000	4 0
1.68	0.60	0.00	22.0	2.25	0.00	0.87	1.94	0.00	34.35	1.000		
22 + 529.00	418.67	0.00	25.0	0.00	0.00	0.00	0.00	0.009	418.97	1.000*	1.000	4 0
1.68	0.71	0.00	50.0	0.00	0.00	0.00	0.00	0.00	10.14	1.000		
22 + 533.00	418.94	0.00	25.0	0.00	0.00	0.00	0.00	0.000	418.98	0.424	1.000	0 0
1.68	0.75	0.00	22.0	3.42	0.00	1.76	0.95	0.00	5.40	1.000		
22 + 593.00	419.96	0.00	25.0	0.00	0.00	0.00	0.00	0.000	420.15	1.000	1.000	4 0
1.68	0.53	0.00	22.0	2.30	0.00	0.87	1.93	0.00	34.59	1.000		

+++++++ Engstelle mit Fluesswechsel, Energieminimum > EH(UW)
 !! Profilabstand zum Ow ueberpruefen !!

22 + 648.00	421.92	0.00	25.0	0.00	0.00	0.00	0.00	0.000	421.99	1.000	1.559	4 0
1.68	0.67	0.00	22.0	2.26	0.00	1.07	1.26	0.000	11.52	1.196		

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STATIONNAERE WASSERSPIEGELLAGEN
 PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009

PROJEKT kl-strieg
 ZUSTAND Station 0
 VARIANTE HQ 10 1st
 DATEI Ster0001

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ERGEBNISSE

22 + 655.00	422.05	0.00	25.0	0.00	0.00	0.00	0.00	0.000	422.12	1.000*	1.559	4 0
1.68	0.67	0.34	22.0	2.26	11.70	0.78	1.44	0.000	11.47	1.196		
22 + 702.00	422.98	0.00	25.0	0.00	0.00	0.00	0.00	0.000	423.34	1.000*	1.000	4 0
1.68	0.75	0.00	50.0	0.00	0.00	0.63	2.67	0.00	14.08	1.000		
22 + 707.00	423.32	0.05	22.0	5.40	5.40	0.26	0.17	0.000	423.35	0.521	1.186	0 0
1.68	0.94	0.00	22.0	3.20	3.78	1.95	0.84	0.00	3.51	1.080		
22 + 745.00	423.56	0.00	22.0	0.00	0.00	0.00	0.00	0.013	423.64	0.587	1.000	0 0
1.68	0.74	0.00	25.0	2.80	0.00	1.33	1.27	0.00	11.05	1.000		
22 + 764.00	423.82	0.00	22.9	0.00	0.00	0.00	0.00	0.000	424.18	1.000	1.000	4 5
1.68	0.75	0.00	22.0	0.87	2.09	0.63	2.67	0.00	72.71	1.000		

+++++++ Engstelle mit Fluesswechsel, Energieminimum > EH(UW)
 !! Profilabstand zum Ow ueberpruefen !!

22 + 769.00	424.16	0.00	25.0	0.00	0.00	0.00	0.00	0.000	424.21	0.415	1.000	0 0
1.68	0.73	0.00	22.0	3.41	3.96	1.79	0.94	0.00	5.29	1.000		
22 + 793.00	424.33	0.00	25.0	0.00	0.00	0.00	0.00	0.004	424.41	0.596	1.000	0 0
1.68	0.60	0.00	25.0	3.15	3.59	1.37	1.23	0.00	11.34	1.000		

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22 + 795.00	424.46	0.00	25.0	0.00	2.31	0.00	2.67	0.87	1.92	0.000	424.64	1.000	1.000	4	0
	1.68	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.00	0.000	34.00	1.000	1.000		

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

22 + 797.00	424.61	0.00	25.0	0.00	2.70	0.00	3.02	0.92	1.83	0.000	424.78	1.000	1.000	4	0
	1.68	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.00	0.000	33.70	1.000	1.000		

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009

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ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

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22 + 867.00	426.17	0.00	25.0	0.00	2.51	0.00	2.82	0.90	1.87	0.000	426.35	1.000*	1.000	4	0
	1.68	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.00	0.000	33.42	1.000	1.000		
22 + 936.00	427.53	0.00	25.0	0.00	2.18	0.00	2.43	0.65	1.71	0.000	427.68	1.000*	1.000	4	0
	1.11	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.00	0.000	35.09	1.000	1.000		
22 + 964.00	428.25	0.00	25.0	0.00	2.11	0.00	2.37	0.64	1.73	0.000	428.40	1.000*	1.000	4	0
	1.11	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.00	0.000	33.25	1.000	1.000		
22 + 993.00	428.91	0.00	25.0	0.00	0.98	0.00	1.78	0.50	2.23	0.012	429.16	1.000*	1.000	4	0
	1.11	0.00	50.0	0.00	0.00	0.00	0.00	0.00	0.00	0.000	10.95	1.000	1.000		

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22 + 998.00	429.15	0.67	22.0	2.08	2.47	0.77	0.87	0.000	0.00	0.000	429.19	0.457	1.000	0	0
	0.67	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.00	0.000	7.41	1.000	1.000		

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

23 + 49.00	430.14	0.00	25.0	0.00	1.00	0.00	1.50	0.36	1.88	0.000	430.32	1.000	1.000	4	0
	0.67	0.00	22.0	0.00	0.00	0.00	0.00	0.00	0.00	0.000	49.19	1.000	1.000		

23 + 52.00 430.30 0.00 25.0 0.00 2.20 2.55 0.79 0.85 0.000 430.34 0.452 1.000 1.000 0 0

23 + 61.00 430.37 0.67 25.0 0.00 1.99 2.29 0.63 1.07 0.003 430.43 0.610 1.000 1.000 0 0

23 + 73.00 430.57 0.67 25.0 0.00 1.00 1.50 0.36 1.88 0.000 430.75 1.000 1.000 1.000 4 0

0.67 0.46 0.00 50.0 0.00 1.00 1.50 0.36 1.88 0.00

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

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STATIONAERE WASSERSPIEGELLAGEN

PROGRAMM WSPR2009 (C.) Knauf 2009 DATUM : 22.06.2009

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ZUSTAND Station 0
VARIANTE HQ 10 1st
DATEI Ster0001

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23 + 81.00	430.93	0.00	25.0	0.00	1.86	0.00	2.07	0.44	1.52	0.000	431.05	1.000	1.000	4	0
	0.67	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.00	0.000	37.85	1.000	1.000		

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													Ster0001.001					
ZUSTAND	VARIANTE	DATEI	STATION	ABFLUSS	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	PROUDE	ALPHA	KZW	KZD	
			ABFLUSS	NN+M/m	m3/s	mX0.33/s	m	m	m2	m/s	m	NN+M	IE o/oo	ALPHAS				
23 +	128.00	0.67	432.07	0.00	0.67	22.0	0.00	2.07	0.00	0.44	1.52	0.000	432.19	1.000*	1.000	4	0	
			0.36	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	432.19	1.000*	1.000	4	0	
23 +	130.00	0.67	432.21	0.00	0.67	22.0	0.00	2.17	0.00	0.43	1.55	0.000	432.33	1.000*	1.000	4	5	
			0.38	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	432.33	1.000*	1.000	4	5	
23 +	132.00	0.67	432.29	0.00	0.67	22.0	0.00	2.10	0.00	0.53	1.27	0.000	432.37	0.755	1.000	0	0	
			0.45	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	432.37	21.07	1.000	0	0	
23 +	135.00	0.67	432.38	0.00	0.67	22.0	0.00	1.66	0.00	0.42	1.58	0.000	432.51	1.000	1.000	4	0	
			0.39	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	432.51	38.13	1.000	4	0	
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													+++++++					
!!! Profiltabstand zum Ow ueberpruefen !!!																		
23 +	157.00	0.67	432.87	0.00	0.67	22.0	0.00	1.52	0.00	0.41	1.63	0.000	433.01	1.000	1.000	4	0	
			0.46	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	433.01	39.35	1.000	4	0	
23 +	162.00	0.67	432.96	0.00	0.67	22.0	0.00	1.00	0.00	0.36	1.88	0.002	433.14	1.000*	1.000	4	0	
			0.46	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	433.14	9.52	1.000	4	0	
23 +	165.00	0.67	433.55	0.00	0.67	22.0	0.00	1.93	0.00	0.45	1.50	0.000	433.67	1.000*	1.000	4	0	
			0.38	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	433.67	37.44	1.000	4	0	
23 +	214.00	0.67	433.81	0.00	0.67	22.0	0.00	3.25	0.00	1.12	0.60	0.000	433.83	0.324	1.000	0	0	
			0.64	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	433.83	3.39	1.000	0	0	
23 +	224.00	0.67	435.12	0.00	0.67	22.0	0.00	1.00	0.00	0.36	1.88	0.063	435.30	1.000	1.000	4	0	
			0.46	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	435.30	9.52	1.000	4	0	
+++++++ 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 : 22.06.2009					
PROJEKT K1-strieg																		
													Seite 89					

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ZUSTAND	VARIANTE	DATEI	STATION	ABFLUSS	WSPLAGE/H	ABFLUSS	K-WERT	BREITE	UMFANG	FLAECHE	GESCHW	HZV	E-HOEH	PROUDE	ALPHA	KZW	KZD	
			ABFLUSS	NN+M/m	m3/s	mX0.33/s	m	m	m2	m/s	m	NN+M	IE o/oo	ALPHAS				
23 +	228.00	0.67	435.29	0.00	0.67	23.0	0.00	0.14	0.14	0.00	0.00	0.000	435.32	0.400	1.002	0	0	
			0.57	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	435.32	5.05	1.001	0	0	
23 +	249.00	0.67	435.44	0.00	0.67	22.0	0.00	1.00	1.50	0.36	1.88	0.000	435.62	1.000	1.000	4	0	
			0.46	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	435.62	9.52	1.000	4	0	
+++++++ Engstelle mit Fließwechsel, Energieminimum > EH(UW)													+++++++					
!!! Profiltabstand zum Ow ueberpruefen !!!																		
23 +	256.00	0.67	435.89	0.00	0.67	22.0	0.00	1.95	2.16	0.45	1.50	0.000	436.01	1.000	1.000	4	0	
			0.40	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	436.01	37.84	1.000	4	0	
23 +	309.00	0.67	437.08	0.00	0.67	22.0	0.00	2.00	2.17	0.45	1.49	0.000	437.19	1.000*	1.000	4	0	
			0.36	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	437.19	36.96	1.000	4	0	
23 +	380.00	0.67	439.99	0.00	0.67	22.0	0.00	2.31	2.62	0.49	1.38	0.000	440.08	1.000*	1.000	4	0	
			0.26	0.00	0.00	25.0	0.00	0.00	0.00	0.00	0.00	0.000	440.08	37.01	1.000	4	0	
+++++++ ungewoehnlicher Wasserspiegelanstieg													+++++++					
!!! Profiltabstaende ueberpruefen !!!																		