

Datum	Wettercode	Niederschlag mm	Lufttemperatur		Probenahmezeit hh.mm	Betrieb ARA			
			min. °C	max. °C		VKB1 - 2 Anzahl	BB1 - BB4 Anzahl	BB5 - BB6 Anzahl	NKB1 - 4 Anzahl
Jan 2019		4.5	-1.2	3.9					
Feb 2019		3.8	-0.2	9.0					
Mär 2019		5.6	3.0	13.1					
Apr 2019		6.5	5.9	17.2					
Mai 2019		13.0	8.6	18.7					
Jun 2019		8.7	17.0	30.1					
Jul 2019		10.2	18.1	30.2					
Aug 2019		11.1	16.2	26.9					
Sep 2019		13.0	12.1	21.7					
Okt 2019		12.8	9.5	17.1					
Nov 2019		5.4	4.4	10.1					
Dez 2019		3.5	2.1	7.8					
Anzahl	365	168	365	365	365	365	365	365	
Minimum		0.1	-6.4	1.0					
Mittelwert		7.9	8.0	17.2					
Maximum		47.9	24.5	39.1					
Summe/Total		1'333.9							

Von 01.01.2019

Bis 31.12.2019

Datum	Zulauf Lachen			Zulauf Wangen			Zulauf ARA Total		Zulauf ARA Temperatur			Zulauf ARA pH-Wert	
	Q min. l/s	Q max. l/s	Q tot. m³	Q min. l/s	Q max. l/s	Q tot. m³	Q tot. m³	TWA Q tot. m³	min. °C	mit. °C	max. °C	min. pH	max. pH
Jan 2019	23.1	201.5	9'144	12.9	55.7	2'577	11'721	7'466	9.6	10.9	11.9	7.1	8.1
Feb 2019	13.8	197.5	8'035	8.6	47.9	2'027	10'062	7'977	9.7	11.0	12.1	7.5	8.3
Mär 2019	17.2	201.3	9'079	10.7	58.3	2'398	11'477	7'798	10.5	11.8	12.8	7.3	8.3
Apr 2019	28.4	153.2	7'770	12.8	52.7	2'381	10'151	7'592	11.7	13.0	14.0	7.4	8.3
Mai 2019	36.7	156.4	7'823	14.6	58.4	2'424	10'247	7'808	12.7	13.8	15.0	7.6	8.4
Jun 2019	29.7	134.7	6'900	10.7	59.3	2'226	9'126	7'517	15.5	16.7	17.8	7.6	8.3
Jul 2019	29.4	150.4	5'763	10.2	66.1	2'326	8'089	6'790	18.1	19.3	20.4	7.4	8.1
Aug 2019	28.0	153.1	7'615	13.0	71.8	3'053	10'667	6'973	18.6	19.7	20.6	7.4	8.2
Sep 2019	36.7	168.0	7'824	11.9	73.4	3'124	10'948	7'873	17.4	18.7	19.6	7.3	8.2
Okt 2019	44.0	193.7	9'403	11.7	73.4	3'145	12'549	7'677	15.7	17.0	17.9	7.4	8.2
Nov 2019	39.3	178.8	8'657	11.6	69.0	3'012	11'669	7'694	13.2	14.9	15.9	7.4	8.3
Dez 2019	29.1	170.4	7'437	9.6	70.4	2'891	10'327	7'765	11.4	13.0	14.0	7.4	8.3
Anzahl	365	365	365	365	365	365	365	87	365	365	365	365	365
Minimum	11.2	82.3	3'797	5.6	33.5	1'584	5'697	5'961	4.8	7.0	8.9	6.6	7.5
Mittelwert	29.7	171.5	7'955	11.5	63.1	2'636	10'592	7'488	13.7	15.0	16.0	7.4	8.2
Maximum	150.0	328.1	19'197	60.9	195.7	5'778	24'495	8'109	19.2	20.6	22.1	7.9	8.7
Summe/Total			2'903'730			962'217	3'865'947	651'471					

Von 01.01.2019

Bis 31.12.2019

Datum	CSB tot.		KMnO4		BSB5		P tot.		PO4-P		N ges.		NH4-N		NO3-N	
	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg
Jan 2019	427.25	4'708.8	406.91	4'655.5	250.00	2'304.8	5.22	56.3			38.60	434.9	26.64	294.5		
Feb 2019	419.80	4'445.2	390.60	3'953.5			4.53	48.6			34.00	367.0	26.96	286.5		
Mär 2019	355.43	4'159.2	382.53	4'052.3			4.24	49.3			33.46	382.4	25.33	288.7		
Apr 2019	403.33	3'646.9	413.72	3'555.6			4.96	45.0			36.23	327.6	27.15	243.2		
Mai 2019	377.33	3'707.2	351.05	3'433.7			4.61	44.8			41.10	415.5	25.03	256.1		
Jun 2019	409.57	3'891.5	405.32	3'855.7			5.43	51.5			37.73	366.0	24.04	232.5		
Jul 2019	453.33	4'105.5	459.14	3'680.4			6.62	58.8			44.50	409.2	29.57	267.9		
Aug 2019	406.29	4'331.9	363.67	3'753.2	265.00	1'971.3	5.25	53.6			37.00	397.6	24.71	266.0		
Sep 2019	364.00	3'936.1	345.64	3'583.7			4.94	53.0			36.00	384.8	21.10	228.5		
Okt 2019	386.14	4'906.6	326.57	4'007.1			4.87	60.5			40.76	533.6	25.63	308.2		
Nov 2019	485.20	4'529.1	411.45	4'263.8	270.00	1'970.5	6.53	60.7			50.70	477.0	35.46	329.9		
Dez 2019	452.75	4'461.3	430.05	4'001.9			5.32	52.7			56.90	577.7	27.78	277.3		
Anzahl	77	77	240	240	4	4	79	79	0	0	77	77	77	77	0	0
Minimum	171.00	2'250.6	105.00	1'182.0	250.00	1'947.9	1.98	33.9			18.50	254.2	9.49	175.8		
Mittelwert	410.44	4'235.1	390.34	3'906.5	262.50	2'054.5	5.26	53.3			40.04	418.4	26.50	272.6		
Maximum	699.00	8'315.7	656.00	9'425.0	270.00	2'304.8	9.12	99.9			90.50	1'002.6	45.40	571.7		
Summe/Total		545'809.6		425'887.7		749'882.5		19'468.6				152'721.1		99'511.4		

Datum	Verhältnis			Zulauf Rohabwasser Auslastung ARA								Auslastung ARA hydraulisch	
	CSB tot. / BSB5	P tot. / BSB5	NH4-N / BSB5	CSB tot.		BSB5		P tot.		N ges.		Q TW %	Q RW %
				%	EW	%	EW	%	EW	%	EW		
Jan 2019	1.81	0.02	0.10	115.4	39'240	113.0	38'413	92.0	31'283	85.3	28'993	144.4	72.2
Feb 2019				109.0	37'043			79.5	27'016	72.0	24'467	124.0	62.0
Mär 2019				101.9	34'660			80.6	27'402	75.0	25'494	141.4	70.7
Apr 2019				89.4	30'391			73.5	24'980	64.2	21'842	125.1	62.5
Mai 2019				90.9	30'893			73.2	24'878	81.5	27'702	126.3	63.1
Jun 2019				95.4	32'429			84.2	28'632	71.8	24'402	112.5	56.2
Jul 2019				100.6	34'213			96.1	32'671	80.2	27'278	99.7	49.8
Aug 2019	1.89	0.02	0.12	106.2	36'099	96.6	32'856	87.6	29'771	78.0	26'506	131.4	65.7
Sep 2019				96.5	32'801			86.7	29'469	75.5	25'653	134.9	67.5
Okt 2019				120.3	40'889			98.9	33'634	104.6	35'575	154.6	77.3
Nov 2019	1.90	0.02	0.17	111.0	37'743	96.6	32'841	99.2	33'717	93.5	31'802	143.8	71.9
Dez 2019				109.3	37'178			86.0	29'256	113.3	38'512	127.3	63.6
Anzahl	3	3	3	77	77	4	4	79	79	77	77	365	365
Minimum	1.81	0.02	0.10	55.2	18'755	95.5	32'465	55.4	18'833	49.9	16'950	70.2	35.1
Mittelwert	1.87	0.02	0.13	103.8	35'292	100.7	34'241	87.2	29'633	82.0	27'894	130.5	65.3
Maximum	1.90	0.02	0.17	203.8	69'297	113.0	38'413	163.3	55'509	196.6	66'843	301.8	150.9
Summe/Total													

Von 01.01.2019

Bis 31.12.2019

Datum	Absetz- volumen AV ml/l	Trocken- substanz TS g/l	Zulauf TS Online		Zulauf TS Online			Schlamm- vol. index SVI mg/l	Glüh- rückstand GR %	Glüh- verlust GV %	O2-Online			Temperatur Online		
			Kontroll- messung g/l	Ab- weichung %	min. g/l	mit. g/l	max. g/l				min. mg/l	mit. mg/l	max. mg/l	min. °C	mit. °C	max. °C
Jan 2019	225	2.8	2.6	108.0	1.2	2.7	3.1	81.1			0.6	2.3	6.0	10.2	10.7	11.2
Feb 2019	291	3.5	3.5	102.1	2.0	3.6	4.2	82.8			0.2	2.2	5.4	10.4	11.1	11.5
Mär 2019	337	3.4	3.4	98.2	1.9	3.4	3.8	100.4			0.2	2.2	5.2	11.5	12.1	12.5
Apr 2019	280	2.8	2.9	94.9	1.4	3.0	3.2	100.8			0.0	1.8	4.7	12.9	13.5	14.0
Mai 2019	173	2.6	2.6	98.9	1.2	2.7	3.0	67.6			0.1	2.1	5.6	13.6	14.3	14.8
Jun 2019	187	2.7	2.6	105.0	1.3	2.7	2.9	70.4			0.0	1.5	4.3	17.3	17.8	18.1
Jul 2019	168	2.4	2.4	103.1	1.2	2.5	2.8	68.9			0.1	2.1	5.3	20.0	20.5	20.8
Aug 2019	242	3.1	3.0	105.4	1.6	3.1	3.3	77.3			0.1	2.2	5.4	20.1	20.5	21.0
Sep 2019	294	3.3	3.2	100.3	1.9	3.3	4.0	90.3			0.1	2.1	5.5	18.5	19.1	19.5
Okt 2019	261	2.9	2.8	102.3	1.4	2.9	3.3	92.2			0.1	2.1	5.6	16.6	17.3	17.8
Nov 2019	295	3.5	3.4	100.9	1.9	3.5	4.3	85.6			0.1	2.1	5.3	14.2	14.8	15.3
Dez 2019	286	3.4	3.5	98.7	2.1	3.5	3.9	83.2			0.0	2.0	5.3	12.3	12.8	13.3
Anzahl	242	242	365	242	365	365	365	242	0	0	365	365	365	365	365	365
Minimum	140	1.9	1.7	56.8	0.0	2.0	2.3	56.8			0.0	0.9	3.2	6.0	7.8	8.9
Mittelwert	253	3.0	3.0	101.5	1.6	3.1	3.5	83.5			0.1	2.1	5.3	14.8	15.4	15.8
Maximum	390	4.0	3.7	132.9	2.9	3.8	13.2	117.2			1.5	3.5	12.4	21.5	21.7	25.1
Summe/Total																

Von 01.01.2019

Bis 31.12.2019

Datum	Absetz- volumen AV ml/l	Trocken- substanz TS g/l	Zulauf TS Online		Zulauf TS Online			Schlamm- vol. index SVI mg/l	Glüh- rückstand GR %	Glüh- verlust GV %	O2-Online			Temperatur Online		
			Kontroll- messung g/l	Ab- weichung %	min. g/l	mit. g/l	max. g/l				min. mg/l	mit. mg/l	max. mg/l	min. °C	mit. °C	max. °C
Jan 2019	229	2.8			1.2	2.7	3.1	80.9			0.1	2.2	4.1	9.6	10.2	10.6
Feb 2019	291	3.5			2.0	3.6	4.2	82.8			0.0	1.9	3.6	9.8	10.6	10.9
Mär 2019	338	3.3			1.9	3.4	3.8	101.3			0.0	1.9	3.6	10.9	11.5	11.9
Apr 2019	283	2.8			1.4	3.0	3.2	101.0			0.0	1.3	3.7	12.3	12.9	13.4
Mai 2019	174	2.6			1.2	2.7	3.0	67.3			0.0	1.6	4.1	12.9	13.7	14.2
Jun 2019	186	2.7			1.3	2.7	2.9	68.9			0.0	1.1	3.7	16.7	17.1	17.4
Jul 2019	169	2.5			1.2	2.5	2.8	68.2			0.0	1.3	4.5	19.3	19.8	20.1
Aug 2019	243	3.1			1.6	3.1	3.3	77.3			0.0	1.7	4.2	19.4	19.8	20.3
Sep 2019	294	3.3			1.9	3.3	4.0	89.9			0.0	1.4	4.3	17.8	18.5	18.9
Okt 2019	260	2.9			1.4	2.9	3.3	91.0			0.0	1.5	4.4	15.9	16.7	17.3
Nov 2019	295	3.5			1.9	3.5	4.3	85.1			0.0	1.8	3.9	13.1	14.2	15.9
Dez 2019	289	3.5			2.1	3.5	3.9	83.8			0.0	1.5	3.7	11.7	12.2	12.7
Anzahl	242	242	0	0	365	365	365	242	0	0	365	365	365	365	365	365
Minimum	140	1.9			0.0	2.0	2.3	54.7			0.0	0.5	2.4	0.0	7.2	8.4
Mittelwert	254	3.0			1.6	3.1	3.5	83.3			0.0	1.6	4.0	14.1	14.8	15.3
Maximum	390	3.9			2.9	3.8	13.2	115.4			0.5	3.4	11.9	20.8	21.0	49.2
Summe/Total																

Von 01.01.2019

Bis 31.12.2019

Datum	Trocken- substanz BB5/BB6 g/l	Menge Total m³	Überschussschlamm			Biologie				Nachklärung			
			Trocken- substanz g/l	Fracht TS kg	Schlamm- alter d	Aufent- haltszeit h	Schlammbelastung kgCSB/ (kgTS*d)	kgBSB5/ (kgTS*d)	Raumbelastung kgCSB/ (m³*d)	kgBSB5/ (m³*d)	Aufent- haltszeit h		Oberfl.- belastung m/h
Jan 2019	2.7	102	5.17	541	19.7	11.2					6.3	0.6	
Feb 2019	3.6	161	7.32	1'165	14.9	12.4					7.0	0.5	
Mär 2019	3.4	148	7.76	1'142	14.7	11.3					6.3	0.6	
Apr 2019	3.0	200	5.93	1'161	12.3	12.9					7.2	0.6	
Mai 2019	2.7	191	5.80	1'072	12.2	11.8					6.6	0.6	
Jun 2019	2.7	140	5.51	771	16.9	13.4					7.5	0.5	
Jul 2019	2.5	108	5.10	546	20.7	15.0					8.5	0.4	
Aug 2019	3.1	98	7.48	735	20.3	12.3					6.9	0.6	
Sep 2019	3.3	143	7.22	1'008	16.2	11.2					6.4	0.6	
Okt 2019	2.9	105	6.60	690	20.5	10.5					5.9	0.7	
Nov 2019	3.5	121	7.22	870	19.3	11.0					6.2	0.6	
Dez 2019	3.5	139	7.86	1'090	15.5	12.0					6.7	0.6	
Anzahl	365	365	365	365	335	365	0	0	0	0	365	365	
Minimum	2.0	89	2.96	266	9.8	4.7					2.6	0.3	
Mittelwert	3.1	138	6.58	896	16.7	12.1					6.8	0.6	
Maximum	3.8	232	11.02	1'415	26.1	20.2					11.4	1.3	
Summe/Total		50'258		327'213									

Datum	Vorfallung Fällmittel				Simultanfällung vor HW Fällmittel				Simultanfällung nach HW Fällmittel				Fällmittel Liefermenge	
	Typ	Konz. g/l	Menge l	Fracht kg	Typ	Konz. g/l	Menge l	Fracht kg	Typ	Konz. g/l	Menge l	Fracht kg	Fe kg	Al kg
Jan 2019		103.0	0	0.0		120.0	159	19.0		190.0	236	44.8	27'040	24'980
Feb 2019		103.0	0	0.0		120.0	262	31.5		190.0	162	30.7		
Mär 2019		103.0	0	0.0		120.0	259	31.0		190.0	160	30.5		9'460
Apr 2019		103.0	0	0.0		120.0	214	25.7		190.0	187	35.6		24'520
Mai 2019		103.0	0	0.0		120.0	257	30.8		190.0	159	30.1	27'040	
Jun 2019		103.0	0	0.0		120.0	232	27.8		190.0	184	34.9		24'400
Jul 2019		103.0	0	0.0		120.0	235	28.2		190.0	193	36.7		
Aug 2019		103.0	0	0.0		120.0	232	27.8		190.0	195	37.1	27'020	
Sep 2019		103.0	0	0.0		120.0	233	28.0		190.0	197	37.4		24'600
Okt 2019		103.0	0	0.0		120.0	232	27.8		190.0	195	37.0		
Nov 2019		103.0	0	0.0		120.0	228	27.4		190.0	209	39.8	27'240	
Dez 2019		103.0	0	0.0		120.0	235	28.2		190.0	226	42.9		
Anzahl	365	365	365	365	365	365	365	365	365	365	365	365	4	5
Minimum		103.0	0	0.0		120.0	0	0.0		190.0	154	29.3	27'020	9'460
Mittelwert		103.0	0	0.0		120.0	231	27.7		190.0	192	36.5	27'085	21'592
Maximum		103.0	0	0.0		120.0	411	49.3		190.0	339	64.4	27'240	24'980
Summe/Total			0	0.0			84'376	10'125.1			70'135	13'325.7	108'340	107'960

Von 01.01.2019

Bis 31.12.2019

Datum	CSB tot.		KMnO4		BSB5		TOC		DOC		P tot.		PO4-P		GUS	
	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg
Jan 2019	22.63	282.2	34.18	417.8	1.00	9.2	8.67	79.9	7.05	65.0	0.29	3.1			5.75	78.5
Feb 2019	20.16	219.2	30.05	301.0							0.26	2.9			3.60	42.4
Mär 2019	22.00	261.8	31.79	342.5			9.77	117.2	7.87	94.4	0.27	3.2			3.14	40.6
Apr 2019	23.52	218.8	36.89	324.5							0.37	3.5			3.17	30.6
Mai 2019	21.07	217.8	34.10	342.6							0.32	3.3			4.67	50.6
Jun 2019	19.93	191.4	31.95	301.4			10.20	77.1	9.37	70.9	0.33	3.3			4.14	40.7
Jul 2019	24.89	223.5	40.62	328.2							0.34	3.0			4.55	39.2
Aug 2019	13.86	167.6	33.72	378.2	6.50	48.4	10.90	80.5	8.27	61.1	0.33	3.5			3.00	35.7
Sep 2019	15.03	164.9	26.50	279.7							0.29	3.3			2.33	33.0
Okt 2019	16.04	215.6	26.10	344.9							0.17	2.4			3.29	51.9
Nov 2019	17.52	173.6	27.60	297.1	5.00	36.5	13.30	97.1	10.00	73.0	0.14	1.4			3.20	33.9
Dez 2019	17.28	169.9	29.55	276.4							0.16	1.6			3.25	33.3
Anzahl	77	77	240	240	4	4	5	5	5	5	79	79	0	0	79	79
Minimum	6.34	47.1	16.00	193.1	1.00	9.2	8.67	77.1	7.05	61.1	0.11	1.0			1.00	8.4
Mittelwert	19.78	212.7	31.85	327.9	4.75	35.6	10.57	90.4	8.51	72.9	0.28	2.9			3.78	43.6
Maximum	39.60	442.6	49.00	747.5	7.00	52.4	13.30	117.2	10.00	94.4	0.74	6.9			9.00	163.2
Summe/Total		77'631.1		119'697.0		13'001.4		32'982.6		26'594.4		1'076.3				15'898.4

Datum	N ges.		NH4-N		NO3-N		NO2-N		Sichttiefe Secchi				Verhältnis		
	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	Konz. mg/l	Fracht kg	NKB1 cm	NKB2 cm	NKB3 cm	NKB4 cm	CSB tot. / BSB5	P tot. / BSB5	NH4-N / BSB5
Jan 2019	12.98	156.5	0.48	8.6	10.92	124.6	0.13	2.3	160	161	160	160	27.00	0.22	0.01
Feb 2019	12.83	136.3	0.01	0.2	11.90	126.0	0.04	0.4	168	169	165	161			
Mär 2019	14.33	168.0	0.03	0.4	13.30	155.3	0.03	0.4	208	204	203	209			
Apr 2019	15.73	143.3	0.01	0.1	15.47	140.4	0.02	0.2	174	178	171	177			
Mai 2019	16.61	163.4	0.05	0.5	13.78	141.8	0.01	0.1	145	145	144	140			
Jun 2019	13.24	128.4	0.02	0.2	13.41	128.6	0.02	0.2	152	159	159	165			
Jul 2019	16.09	145.9	0.09	0.8	14.64	132.9	0.05	0.4	170	170	169	170			
Aug 2019	15.16	166.4	0.03	0.3	13.54	146.4	0.03	0.3	190	192	189	191	2.22	0.06	0.00
Sep 2019	11.59	127.3	0.03	0.2	10.53	113.9	0.00	0.0	201	201	189	203			
Okt 2019	13.13	177.0	0.02	0.3	10.61	134.7	0.01	0.1	206	213	206	212			
Nov 2019	13.36	128.6	0.06	0.6	12.88	124.8	0.03	0.3	207	212	204	210	3.62	0.03	0.00
Dez 2019	19.38	196.1	0.21	2.3	13.93	136.9	0.09	0.9	185	187	184	185			
Anzahl	77	77	78	78	77	77	77	77	364	364	364	364	3	3	3
Minimum	8.24	86.8	0.00	0.0	6.14	78.9	0.00	0.0	110	110	100	110	2.22	0.03	0.00
Mittelwert	14.44	152.7	0.09	1.3	12.90	134.1	0.04	0.5	181	183	179	182	10.95	0.10	0.00
Maximum	31.10	340.1	1.49	30.4	20.10	238.0	0.29	5.9	230	230	230	230	27.00	0.22	0.01
Summe/Total		55'726.6		474.7		48'949.8		177.0							

Datum	Zulauf ARA - Ablauf ARA				
	CSB tot. %	BSB5 %	P tot. %	N ges. %	NH4-N %
Jan 2019	94.1	99.6	94.2	63.7	97.3
Feb 2019	95.1		94.1	62.5	99.9
Mär 2019	93.7		93.7	56.4	99.9
Apr 2019	94.1		92.5	56.4	100.0
Mai 2019	94.0		92.1	59.4	99.8
Jun 2019	95.1		93.4	64.5	99.9
Jul 2019	94.5		94.7	63.1	99.7
Aug 2019	96.4	97.5	93.5	58.5	99.9
Sep 2019	95.7		93.2	67.0	99.9
Okt 2019	95.4		95.9	66.5	99.9
Nov 2019	96.0	98.1	97.5	72.8	99.8
Dez 2019	96.2		97.0	65.9	99.3
Anzahl	77	4	79	77	77
Minimum	90.4	97.3	85.0	45.4	88.2
Mittelwert	94.9	98.2	94.2	62.8	99.6
Maximum	98.5	99.6	98.6	81.4	100.0
Summe/Total					

Von 01.01.2019

Bis 31.12.2019

Datum	Frischschlamm							Überschussschlamm eingedickt							Primärschlamm				
	Menge ab- VKB zu FR m³	Trocken- rückstand %	Fracht TR t TR	Fracht oTR t oTR	Glüh- rückstand %	Glüh- verlust %	pH-Wert pH	Menge m³	Trocken- rückstand %	Fracht TR t TR	Fracht oTR t oTR	Glüh- rückstand %	Glüh- verlust %	Menge m³	Trocken- rückstand %	Fracht TR t TR	Fracht oTR t oTR	Glüh- rückstand %	
Jan 2019	44.7	4.63	2.07	1.62	28.38	71.62	6.4	7.0	7.73	0.54	0.38	27.72	72.28	37.6	4.04	1.53	1.24	27.89	
Feb 2019	45.8	5.34	2.45	2.28	21.22	78.78	6.4	14.8	7.90	1.17	0.85	27.72	72.28	31.0	4.04	1.28	1.44	16.48	
Mär 2019	47.5	4.61	2.19	1.59	22.64	77.36	6.3	14.7	7.79	1.14	0.79	29.44	70.56	32.8	3.20	1.05	0.81	14.17	
Apr 2019	47.5	4.73	2.25	1.60	21.67	78.33	6.5	15.4	7.53	1.16	0.80	28.83	71.17	32.1	3.37	1.09	0.80	12.89	
Mai 2019	53.8	5.57	3.00	2.46	37.15	62.85	6.4	12.8	8.41	1.07	0.75	30.77	69.23	41.0	4.70	1.93	1.71	37.45	
Jun 2019	42.7	5.49	2.34	1.78	29.61	70.39	6.4	9.2	8.41	0.77	0.51	34.20	65.80	33.5	4.72	1.57	1.27	27.66	
Jul 2019	42.7	4.98	2.13	1.62	26.12	73.88	6.5	6.8	8.03	0.55	0.35	35.96	64.04	35.9	4.40	1.58	1.27	22.40	
Aug 2019	42.4	4.85	2.06	1.43	27.53	72.47	6.4	9.0	8.13	0.73	0.47	37.63	62.37	33.4	4.01	1.32	0.96	21.36	
Sep 2019	39.1	5.40	2.11	1.45	26.16	73.84	6.2	12.4	8.13	1.01	0.65	33.99	66.01	26.7	4.13	1.11	0.80	17.79	
Okt 2019	39.0	4.70	1.83	1.28	21.74	78.26	6.1	8.5	8.14	0.69	0.45	31.81	68.19	30.5	3.74	1.14	0.83	14.67	
Nov 2019	43.3	5.04	2.18	1.47	21.73	78.27	6.3	10.2	8.51	0.87	0.59	31.13	68.87	33.0	3.91	1.31	0.88	12.70	
Dez 2019	48.5	4.69	2.27	1.73	20.11	79.89	6.3	12.9	8.45	1.09	0.74	29.73	70.27	35.5	3.34	1.18	0.99	10.13	
Anzahl	365	365	365	50	50	50	53	365	365	365	50	50	50	365	365	365	50	50	
Minimum	29.3	3.00	1.26	1.01	17.79	48.40	5.9	3.8	6.45	0.27	0.27	26.14	61.31	18.8	1.35	0.45	0.60	5.05	
Mittelwert	44.8	5.00	2.24	1.67	25.27	74.73	6.4	11.1	8.10	0.90	0.59	31.80	68.20	33.6	3.96	1.34	1.08	19.58	
Maximum	90.2	9.48	5.09	3.21	51.60	82.21	7.9	18.2	9.84	1.42	0.99	38.69	73.86	80.2	9.88	4.09	2.40	57.01	
Summe/Total	16'335.9		817.01					4'057.2		327.21				12'278.7		489.80			

Von 01.01.2019

Bis 31.12.2019

Datum	Faulraum								Faulraum Auslauf				Trüb- wasser Menge m³
	Trocken- rückstand %	Glüh- rückstand %	Glüh- verlust %	Abbau- leistung %	Temp. vor WT °C	pH-Wert pH	Organ. Säure mg/l	Faulzeit d	Trocken- rückstand %	Glüh- rückstand %	Glüh- verlust %	pH-Wert %	
Jan 2019	2.7	39.1	60.9	33.5	26.5	7.2		22.8	2.7	40.1	59.9	7.4	
Feb 2019	2.8	39.0	61.0	57.5	16.0	7.2		22.1	2.6	40.5	59.5	7.3	
Mär 2019	2.8	42.6	57.4	60.5	18.2	7.2		21.2	2.7	43.3	56.7	7.4	
Apr 2019	2.7	40.7	59.3	59.8	21.7	7.2		21.1	2.5	42.2	57.8	7.3	
Mai 2019	3.0	45.1	54.9	19.2	23.3	7.0		19.0	2.8	44.5	55.5	7.2	
Jun 2019	3.0	46.6	53.4	51.4	24.5	7.2		23.8	2.9	47.7	52.3	7.3	
Jul 2019	3.1	46.0	54.0	58.5	25.3	7.3		23.6	3.0	47.6	52.4	7.4	
Aug 2019	2.8	45.8	54.2	55.0	24.9	7.2		23.7	2.4	47.0	53.0	7.3	
Sep 2019	3.0	44.4	55.6	55.2	23.1	7.2		25.7	2.8	46.2	53.8	7.4	
Okt 2019	3.1	41.7	58.3	61.3	21.1	7.3		26.1	3.0	43.6	56.4	7.3	
Nov 2019	2.9	39.4	60.6	57.3	18.2	7.2		23.8	2.8	40.6	59.4	7.3	
Dez 2019	2.9	38.1	61.9	59.0	18.0	7.2		20.7	2.8	39.3	60.7	7.4	
Anzahl	51	50	50	50	365	52	0	365	48	48	48	48	0
Minimum	2.5	36.7	51.4	-41.0	13.7	6.8		11.1	2.1	38.9	50.2	7.1	
Mittelwert	2.9	42.4	57.6	52.7	21.8	7.2		22.8	2.7	43.7	56.3	7.3	
Maximum	3.5	48.6	63.3	67.5	38.7	7.3		34.1	3.2	49.8	61.1	7.5	
Summe/Total													

Von 01.01.2019

Bis 31.12.2019

Datum	Entwässerung Eingang						Entwässerung Ausgang			Zentralwasser			Flockungsmittel				
	Menge m ³	Trocken- rückstand %	Fracht TR t TR	Fracht oTR t oTR	Glüh- rückstand %	Glüh- verlust %	Menge t	Trocken- rückstand %	Entsorg. Mulden Anzahl	m ³	Trocken- rückstand %	Fracht TR t TR	Menge Lösung m ³	Konz. Lösung kg/m ³	Fracht FHM kg	spez. Dosierung kg/t TR kg/m ³	
Jan 2019	160.0	2.7	4.2				16.6	25.7	1	210.4	0.1	0.3	19.8	6.4	127.2	30.1	0.8
Feb 2019	169.2	2.6	4.4				16.6	26.1	1	234.7	0.1	0.3	21.0	6.4	134.8	31.0	0.8
Mär 2019	163.9	2.7	4.4				16.8	26.1	1	205.6	0.1	0.2	21.3	6.4	136.9	31.2	0.8
Apr 2019	163.3	2.6	4.3				17.0	25.2	1	196.3	0.1	0.2	19.6	6.4	126.2	29.6	0.8
Mai 2019	163.1	2.5	4.1				16.8	24.4	1	191.8	0.1	0.2	19.3	6.4	124.4	30.5	0.8
Jun 2019	176.9	2.6	4.6				17.1	27.0	1	257.7	0.1	0.3	21.7	6.4	139.7	30.3	0.8
Jul 2019	165.7	2.9	4.8				17.1	28.1	1	223.7	0.1	0.3	22.3	6.4	143.1	30.0	0.9
Aug 2019	194.6	2.5	4.9				16.9	28.7	1	269.9	0.1	0.3	23.4	6.4	150.2	30.8	0.8
Sep 2019	180.0	2.8	5.0				17.2	29.0	1	237.7	0.1	0.3	22.4	6.4	144.0	28.8	0.8
Okt 2019	147.0	2.9	4.2				17.0	25.1	1	188.2	0.1	0.2	19.0	6.4	122.2	29.1	0.8
Nov 2019	151.6	2.8	4.2				16.8	24.9	1	185.3	0.1	0.2	18.0	6.4	116.0	27.7	0.8
Dez 2019	147.3	2.8	4.1				16.7	24.5	1	192.3	0.1	0.2	18.2	6.4	117.3	28.5	0.8
Anzahl	97	97	97	0	0	0	97	97	97	97	97	97	97	365	97	97	97
Minimum	126.7	2.3	3.7				15.1	23.6	1	152.7	0.1	0.2	17.1	6.4	110.2	26.9	0.7
Mittelwert	163.5	2.7	4.4				16.9	26.1	1	213.0	0.1	0.3	20.3	6.4	130.7	29.8	0.8
Maximum	208.5	3.0	5.2				17.5	30.3	1	301.6	0.1	0.4	24.3	6.4	156.1	33.5	1.0
Summe/Total	15'855.6		425.9				1'637.5		97	20'665.7		24.5	1'972.3		12'680.0		

Datum	Rechen- / Strainpressgut		Sandfanggut		Schlammabgabe Landw.			
	Menge m ³	Mulden Anzahl	Menge m ³	Mulden Anzahl	Menge m ³	Trocken- rückstand %	Fracht TR t TR	
Jan 2019	2.8	4						
Feb 2019	4.3	5						
Mär 2019	5.0	6	6.0	1				
Apr 2019	4.8	6						
Mai 2019	3.8	5						
Jun 2019	4.9	6						
Jul 2019	3.7	5						
Aug 2019	4.6	6						
Sep 2019	3.4	4						
Okt 2019	3.1	4						
Nov 2019	2.8	4						
Dez 2019	3.5	4						
Anzahl	98	98	1	1	0	0	0	
Minimum	1.6	2	6.0	1				
Mittelwert	3.8	5	6.0	1				
Maximum	6.4	8	6.0	1				
Summe/Total	376.0	470	6.0	1				

Datum	Menge m³	Gasproduktion			CO2- Gehalt %	Gasverbrauch				Öl- Lieferung kg
		m³ pro m³ FS m³/m³	m³ pro kg oTR FS m³/kg oTR	Total m³		Gas- motor 1 m³	Gas- motor 2 m³	Heizung m³		
Jan 2019	1'063	23.8	0.6		1'056	1'035	0	21		
Feb 2019	1'048	23.0	0.4		1'059	1'058	0	1		
Mär 2019	928	19.6	0.6		1'010	1'010	0	0		
Apr 2019	1'002	21.1	0.6		1'107	1'107	0	0		
Mai 2019	1'091	20.5	0.5		1'208	1'208	0	0		
Jun 2019	979	23.2	0.6		1'043	1'039	5	0		
Jul 2019	965	22.6	0.6		1'005	1'005	0	0		
Aug 2019	885	21.0	0.6		891	891	0	0		
Sep 2019	913	23.4	0.6		934	934	0	0		
Okt 2019	877	22.7	0.7		889	889	0	0		
Nov 2019	947	22.4	0.6		963	963	0	0		
Dez 2019	1'081	22.3	0.7		1'093	1'093	0	0		
Anzahl	365	365	50	0	365	365	365	365	0	
Minimum	545	9.0	0.3		259	243	0	0		
Mittelwert	981	22.1	0.6		1'022	1'019	0	2		
Maximum	1'412	28.0	0.8		1'545	1'545	137	291		
Summe/Total	358'075				372'873	372'040	137	692		

Von 01.01.2019

Bis 31.12.2019

Datum	El. Blindenergie Bezug EW			El. Energie Bezug EW				El. Energie Produktion							El. Energie Verbrauch ARA		
	HT	NT	Total	HT	NT	Total	Anteil	Gasmotor 1			Gasmotor 2			G-Motoren Anteil	HT	NT	Total
	kvarh	kvarh	kvarh	kWh	kWh	kWh		%	HT kWh	NT kWh	Total kWh	HT kWh	NT kWh		Total kWh	%	kWh
Jan 2019	41	54	96	359	936	1'295	41.1	1'011	792	1'803	0	0	0	58.9	1'370	1'728	3'098
Feb 2019	36	48	84	544	1'184	1'728	48.1	994	845	1'839	0	0	0	51.9	1'538	2'028	3'567
Mär 2019	41	49	90	664	1'471	2'135	54.5	934	826	1'760	0	0	0	45.5	1'598	2'298	3'895
Apr 2019	45	48	93	686	1'281	1'968	51.1	1'027	848	1'874	0	0	0	48.9	1'713	2'129	3'842
Mai 2019	37	41	78	530	1'118	1'649	44.0	1'118	938	2'056	0	0	0	56.0	1'648	2'057	3'705
Jun 2019	28	38	66	762	1'417	2'179	55.9	872	835	1'706	0	0	0	44.1	1'633	2'252	3'885
Jul 2019	31	36	67	693	1'335	2'028	55.1	937	704	1'641	0	0	0	44.9	1'629	2'039	3'669
Aug 2019	41	53	94	682	1'362	2'044	58.7	843	591	1'434	0	0	0	41.3	1'525	1'953	3'478
Sep 2019	42	55	96	627	1'337	1'964	56.5	832	673	1'505	0	0	0	43.5	1'460	2'009	3'469
Okt 2019	39	56	95	720	1'440	2'159	59.4	882	585	1'467	0	0	0	40.6	1'601	2'025	3'627
Nov 2019	47	52	99	704	1'390	2'095	56.5	880	725	1'605	0	0	0	43.5	1'584	2'116	3'700
Dez 2019	45	44	89	683	1'360	2'043	52.6	945	880	1'825	0	0	0	47.4	1'628	2'240	3'868
Anzahl	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365
Minimum	0	17	37	0	144	267	9.1	5	0	436	0	0	0	16.7	15	1'136	2'418
Mittelwert	39	48	87	638	1'303	1'941	52.8	940	770	1'709	0	0	0	47.2	1'578	2'073	3'650
Maximum	89	117	127	1'306	2'210	2'923	83.3	1'481	2'409	2'663	0	0	0	90.9	2'484	3'898	4'322
Summe/Total	14'398	17'497	31'895	232'862	475'596	708'458		342'930	280'891	623'821	0	0	0		575'792	756'487	1'332'279