

Grundwasserstände



Birstal

Aesch

Abstichpunkt:

OK Terrain:

11.J.3

289.94

289.93

Pentapharm

m ü.M.

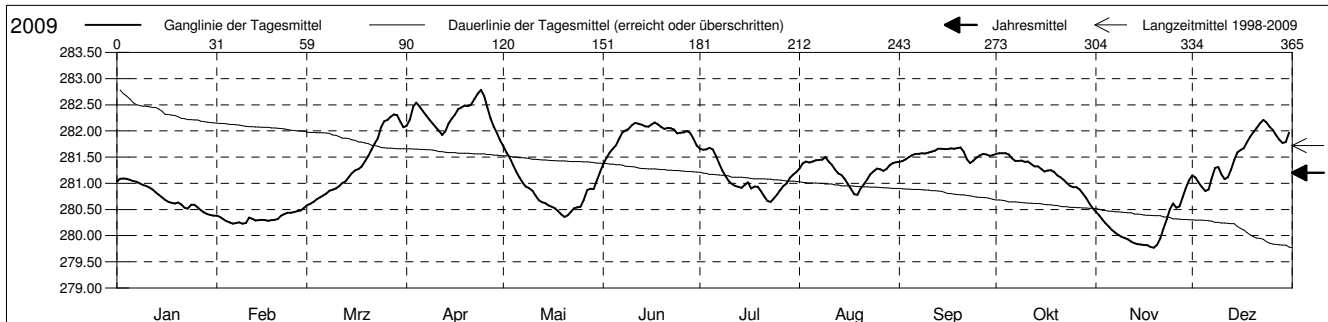
m ü.M.

Amt für Umweltschutz und Energie

Kanton Basel-Landschaft

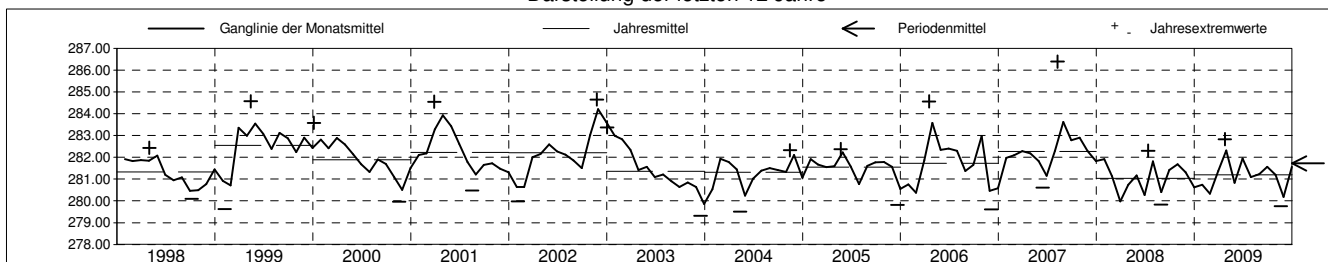
Koordinaten: 612556.38 / 258994.64

2009	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember		
1	281.04	280.38	280.58 -	282.10	281.71 +	281.36 -	281.66	281.28	281.41	281.56	280.46	281.15	1	
2	281.08	280.36	280.61	282.22	281.59	281.48	281.64	281.38	281.43	281.57 +	280.39	281.11	2	
3	281.09 +	280.31	280.65	282.47	281.49	281.59	281.65	281.41	281.46	281.57 +	280.31	281.01	3	
4	281.08	280.28	280.70	282.54	281.36	281.66	281.68 +	281.40	281.50	281.57 +	280.23	280.93	4	
5	281.07	280.25	280.73	282.46	281.22	281.73	281.65	281.42	281.54	281.55	280.18	280.86 -	5	
Tagesmittel	6	281.04	280.23 -	280.77	282.38	281.11	281.86	281.53	281.44	281.57	281.47	280.11	280.88	6
7	281.03	280.24	280.81	282.30	281.01	281.97	281.38	281.44	281.56	281.43	280.06	281.09	7	
8	281.00	280.26	280.86	282.22	280.94	282.01	281.25	281.45	281.57	281.43	280.02	281.30	8	
9	280.97	280.23 -	280.87	282.14	280.91	282.04	281.14	281.50 +	281.57	281.43	279.98	281.31	9	
10	280.95	280.24	280.90	282.07	280.86	282.11	281.04	281.42	281.59	281.41	279.95	281.17	10	
11	280.92	280.35	280.94	282.00	280.76	282.15	280.99	281.36	281.60	281.42	279.93	281.08	11	
12	280.88	280.32	281.01	281.92	280.67	282.14	280.95	281.26	281.63	281.37	279.89	281.12	12	
13	280.83	280.29	281.03	282.00	280.64	282.12	280.93	281.19	281.66	281.32	279.86	281.26	13	
14	280.78	280.30	281.12	282.14	280.62	282.09	280.92	281.16	281.66	281.32	279.84	281.45	14	
Max. +	15	280.73	280.30	281.19	282.23	280.58	282.08	280.97	281.09	281.65	281.27	279.83	281.59	15
16	280.68	280.29	281.25	282.32	280.55	282.12	281.02	280.99	281.65	281.23	279.82	281.63	16	
17	280.65	280.29	281.28	282.42	280.52	282.16 +	280.90	280.89	281.67	281.25	279.82	281.67	17	
18	280.63	280.30	281.32	282.45	280.47	282.13	280.94	280.79	281.66	281.25	279.79	281.79	18	
19	280.62	280.30	281.42	282.49	280.41	282.08	280.94	280.78 -	281.67	281.22	279.77 -	281.89	19	
Min. -	20	280.63	280.32	281.52	282.47	280.36 -	282.04	280.85	280.90	281.69 +	281.16	279.83	281.98	20
21	280.60	280.38	281.64	282.50	280.39	282.06	280.75	280.99	281.60	281.11	279.95	282.06	21	
22	280.54	280.42	281.76	282.62	280.46	282.05	280.66	281.08	281.46	281.07	280.14	282.15	22	
23	280.51	280.44	281.86	282.71	280.52	282.03	280.64 -	281.17	281.38 -	281.00	280.31	282.21 +	23	
24	280.59	280.44	282.07	282.78 +	280.54	281.96	280.71	281.23	281.44	280.95	280.50	282.17	24	
25	280.59	280.45	282.19	282.67	280.55	281.96	280.78	281.28	281.49	280.93	280.62	282.08	25	
26	280.54	280.46	282.21	282.45	280.68	281.97	280.87	281.27	281.53	280.93	280.54	282.02	26	
27	280.49	280.48	282.27	282.24	280.87	281.99	280.95	281.24	281.56	280.88	280.56	281.91	27	
28	280.45	280.53 +	282.31 +	282.08	280.90	281.97	281.00	281.27	281.55	280.81	280.74	281.83	28	
29	280.41		282.30	281.96	280.89	281.86	281.11	281.35	281.53	280.72	280.91	281.77	29	
30	280.39		282.18	281.82 -	281.06	281.72	281.17	281.39	281.54	280.62	281.06 +	281.79	30	
31	280.38 -		282.07		281.22		281.21	281.40		280.53 -		281.97	31	
Monatsmittel	280.75	280.34	281.37	282.31 +	280.83	281.95	281.09	281.23	281.56	281.21	280.18 -	281.56		
Maximum	281.10	280.57 -	282.33	282.83 +	281.75	282.19	281.69	281.51	281.70	281.59	281.14	282.24		
Datum	03.01	28.02	28.03	24.04	01.05	17.06	04.07	09.08	20.09	02.10	30.11	23.12		
Amplitude	0.73	0.36	1.77	1.07	1.40	0.90	1.07	0.76	0.37	1.09	1.39	1.40		
Jahr 2009	Mittel	281.20 m ü.M.	Maximum	282.83 (24.Apr)	Minimum	279.75 (19.Nov)	Amplitude	3.07 m						



Periode	1998 - 2009											
Monatsmittel	281.60	281.51	282.05	282.23 +	282.00	281.69	281.62	281.65	281.62	281.78	281.53	281.36 -
Maximum	283.58	283.02 -	284.55	284.56	284.57	283.49	283.39	286.39 +	283.28	284.31	284.65	284.57
Jahr	2000	2003	2001	2006	1999	1999	1999	2007	1999	2002	2002	2002
Minimum	279.83	279.63	279.85	279.99	279.52	279.99	279.95	279.83	279.93	280.10 +	279.70	279.32 -
Jahr	1999	1999	2008	2008	2004	2008	2005	2008	2003	1998	2006	2003
Amplitude	1.68	3.04	3.03	2.38	1.93	1.57 -	1.86	4.00 +	2.13	2.35	1.90	2.33
Jahr	2004	1999	2006	2006	1999	2007	2005	2007	2008	2002	2006	2006
Periode	Mittel	281.72 m ü.M.	Maximum	286.39 (09.Aug 2007)	Minimum	279.32 (17.Dez 2003)	Amplitude	7.07 m				

Darstellung der letzten 12 Jahre



Grundwassertemperatur



Birstal

Aesch

Abstichpunkt:

OK Terrain:

11.J.3

289.94

289.93

Pentapharm

m ü.M.

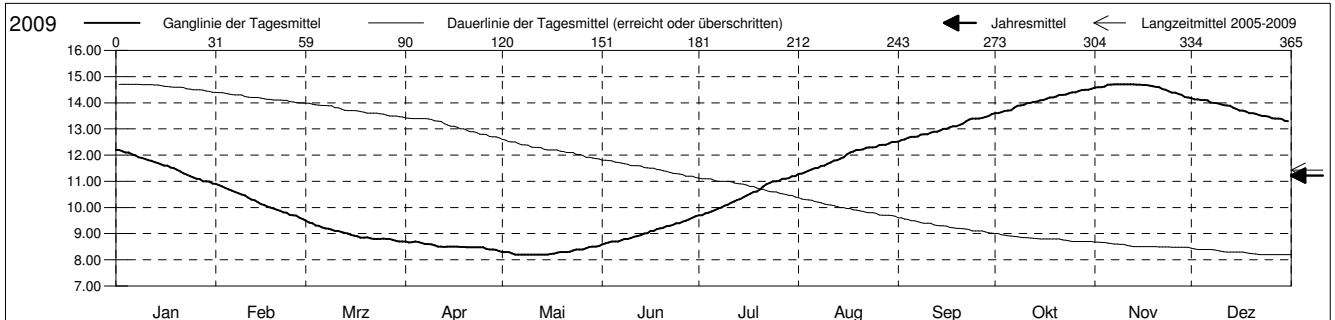
m ü.M.

Amt für Umweltschutz und Energie

Kanton Basel-Landschaft

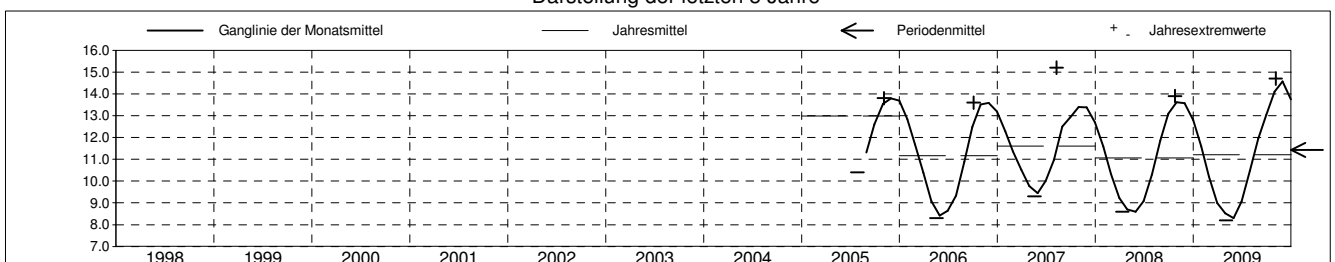
Koordinaten: 612556.38 / 258994.64

2009	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
1	12.2 +	10.9 +	9.5 +	8.7 +	8.3	8.6 -	9.7 -	11.3 -	12.5 -	13.6 -	14.6	14.2 +	1
2	12.2 +	10.9 +	9.4	8.7 +	8.3	8.6 -	9.7 -	11.3 -	12.6	13.6 -	14.6	14.1	2
3	12.2 +	10.8	9.4	8.7 +	8.3	8.7	9.8	11.3 -	12.6	13.6 -	14.6	14.1	3
4	12.1	10.7	9.3	8.7 +	8.3	8.7	9.8	11.4	12.7	13.7	14.6	14.1	4
5	12.1	10.7	9.3	8.7 +	8.2 -	8.7	9.9	11.5	12.7	13.7	14.7 +	14.1	5
Tagesmittel													
6	12.0	10.6	9.2	8.6	8.2 -	8.7	9.9	11.5	12.7	13.7	14.7 +	14.1	6
7	12.0	10.6	9.2	8.6	8.2 -	8.8	10.0	11.5	12.7	13.8	14.7 +	14.0	7
8	11.9	10.5	9.2	8.6	8.2 -	8.8	10.0	11.6	12.8	13.9	14.7 +	14.0	8
9	11.9	10.5	9.2	8.6	8.2 -	8.8	10.1	11.6	12.8	13.9	14.7 +	14.0	9
10	11.9	10.5	9.1	8.6	8.2 -	8.8	10.1	11.7	12.8	13.9	14.7 +	13.9	10
11	11.8	10.4	9.1	8.5	8.2 -	8.9	10.2	11.7	12.9	14.0	14.7 +	13.9	11
12	11.8	10.3	9.1	8.5	8.2 -	8.9	10.2	11.8	12.9	14.0	14.7 +	13.9	12
13	11.7	10.3	9.0	8.5	8.2 -	8.9	10.3	11.8	12.9	14.0	14.7 +	13.9	13
14	11.7	10.2	9.0	8.5	8.2 -	9.0	10.3	11.9	12.9	14.0	14.7 +	13.8	14
15	11.6	10.1	9.0	8.5	8.2 -	9.0	10.4	11.9	13.0	14.1	14.7 +	13.8	15
Max. +													
16	11.6	10.1	8.9	8.5	8.2 -	9.1	10.5	12.0	13.0	14.1	14.7 +	13.7	16
17	11.6	10.0	8.9	8.5	8.2 -	9.1	10.5	12.1	13.1	14.2	14.7 +	13.7	17
18	11.5	10.0	8.8	8.5	8.3	9.2	10.6	12.1	13.1	14.2	14.7 +	13.7	18
19	11.5	10.0	8.9	8.5	8.3	9.2	10.6	12.2	13.1	14.2	14.6	13.6	19
20	11.4	9.9	8.9	8.5	8.3	9.2	10.7	12.2	13.1	14.2	14.6	13.6	20
Min. -													
21	11.4	9.9	8.8	8.5	8.3	9.3	10.8	12.2	13.2	14.3	14.6	13.6	21
22	11.3	9.8	8.8	8.5	8.3	9.3	10.9	12.3	13.3	14.3	14.5	13.5	22
23	11.3	9.8	8.8	8.5	8.4	9.3	10.9	12.3	13.4	14.3	14.5	13.5	23
24	11.2	9.7	8.8	8.5	8.4	9.4	11.0	12.3	13.4	14.4	14.4	13.5	24
25	11.1	9.7	8.8	8.5	8.4	9.4	11.0	12.3	13.4	14.4	14.4	13.5	25
26	11.1	9.7	8.8	8.4	8.4	9.5	11.0	12.4	13.4	14.4	14.4	13.4	26
27	11.1	9.6 -	8.8	8.4	8.4	9.5	11.1	12.4	13.4	14.4	14.3	13.4	27
28	11.0	9.6 -	8.8	8.4	8.5 +	9.6	11.1	12.4	13.5	14.5 +	14.3	13.4	28
29	11.0		8.7 -	8.4	8.5 +	9.6	11.1	12.4	13.5	14.5 +	14.2 -	13.4	29
30	11.0		8.7 -	8.3 -	8.5 +	9.7 +	11.2 +	12.5 +	13.6 +	14.5 +	14.2 -	13.3 -	30
31	10.9 -		8.7 -		8.5 +		11.2 +	12.5 +		14.5 +		13.3 -	31
Monatsmittel	11.6	10.2	9.0	8.5	8.3 -	9.1	10.5	11.9	13.0	14.1	14.6 +	13.7	
Maximum	12.2	10.9	9.5	8.7	8.6 -	9.7	11.2	12.5	13.6	14.6	14.7 +	14.2	
Datum	01.01	01.02	01.03	01.04	31.05	29.06	28.07	29.08	30.09	31.10	04.11	01.12	
Minimum	10.9	9.5	8.6	8.3	8.2 -	8.5	9.7	11.2	12.5	13.6	14.2 +	13.3	
Datum	30.01	28.02	31.03	29.04	03.05	01.06	01.07	01.08	01.09	01.10	29.11	29.12	
Amplitude	1.3	1.4	0.9	0.4	0.4	1.2	1.5	1.3	1.1	1.0	0.5	0.9	
Jahr 2009	Mittel	11.2 °C		Maximum	14.7 (04.Nov)		Minimum	8.2 (03.Mai)		Amplitude	6.5 °C		



Periode	2005 - 2009											
Monatsmittel	12.1	10.9	9.8	9.0	8.7 -	9.2	10.3	11.7	12.8	13.6	13.8 +	13.2
Maximum	13.3	12.2	11.6	10.7	9.7 -	10.5	11.4	15.2 +	13.6	14.6	14.7	14.2
Jahr	2006	2006	2006	2006	2007	2007	2007	2007	2009	2009	2009	2009
Minimum	10.9	9.5	8.6	8.3	8.2 -	8.4	9.0	9.8	11.8	13.1 +	13.1 +	12.2
Jahr	2009	2009	2009	2009	2009	2006	2006	2006	2006	2005	2007	2007
Amplitude	1.3	1.4	2.1	2.2	0.4 -	1.2	1.5	3.8 +	1.4	1.0	0.6	1.1
Jahr	2009	2009	2006	2006	2009	2009	2009	2007	2006	2009	2008	2008
Periode	Mittel	11.4 °C		Maximum	15.2 (09.Aug 2007)		Minimum	8.2 (03.Mai 2009)		Amplitude	7.0 °C	

Darstellung der letzten 5 Jahre



Leitfähigkeit



Birstal

Aesch

Abstichpunkt:

OK Terrain:

11.J.3

289.94

289.93

Pentapfarm

m ü.M.

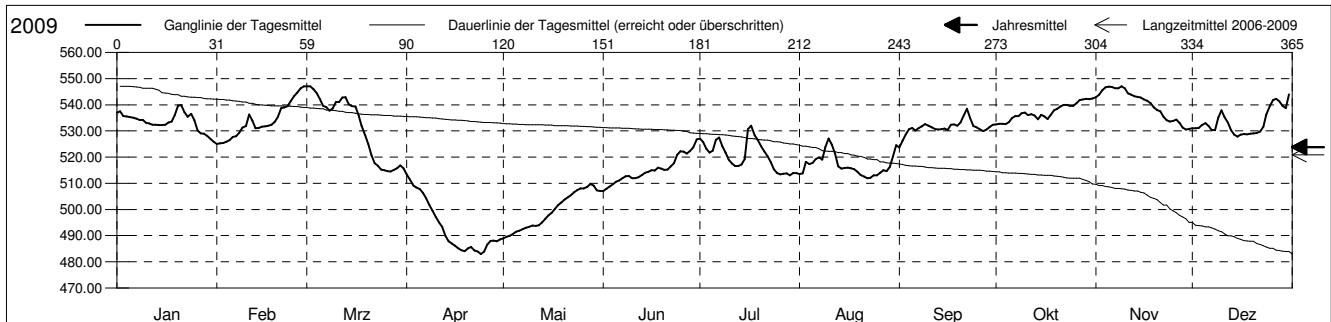
m ü.M.

Amt für Umweltschutz und Energie

Kanton Basel-Landschaft

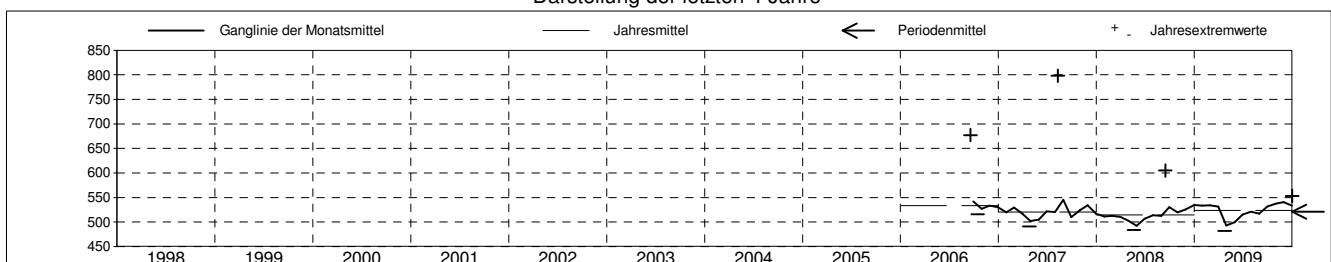
Koordinaten: 612556.38 / 258994.64

2009	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
1	537	525 -	547 +	513 +	489 -	507 -	527	514	524 -	533 -	543	531	1
2	537	525 -	547 +	512	490	508	526	514	526	533 -	544	531	2
3	536	525 -	546	509	490	509	523	518	529	533 -	546	531	3
4	536	526	544	508	491	510	522	517	531	533 -	547 +	532	4
5	535	527	542	508	492	511	523	518	531	533 -	547 +	533	5
Tagesmittel	535	528	540	506	492	511	527	519	530	535	547 +	532	6
6	535	528	539	504	493	512	528	520	531	536	546	530	7
7	534	529	538	502	493	513	524	519	532	536	546	530	8
8	534	531	539	499	493	513	522	524	533	537	547 +	535	9
9	533	532	541	497	494	512	519	527 +	532	537	546	538	10
10	533	536	541	495	494	512	518	525	531	536	544	535	11
11	532	534	543	493	494	512	517	521	531	536	544	533	12
12	532	531	543	490	495	513	517	516	531	536	543	530	13
13	532	531	540	488	496	514	517	516	531	534	543	529	14
14	532	532	540	487	498	514	519	516	531	536	543	528 -	15
Max. +	532	532	539	486	499	515	531	516	530	536	542	529	16
16	533	532	536	485	500	515	532 +	516	532	535	542	529	17
17	534	532	532	484	502	516	528	515	532	536	541	529	18
18	536	534	528	484	503	516	527	514	532	538	539	529	19
19	540 +	536	525	485	504	515	524	513	533	538	538	529	20
Min. -	540 +	539	521	486	505	515	522	513	536	539	538	529	21
21	537	539	518	484	506	517	520	512 -	539 +	540	535	530	22
22	535	539	517	484	507	518	518	512 -	535	540	534	532	23
23	537	541	515 -	483 -	507	521	515	513	532	540	534	536	24
24	534	543	515 -	484	508	522	514	513	531	540	534	539	25
25	530	545	515 -	487	508	522	513 -	514	531	541	534	542	26
26	529	546	515 -	488	509	521	514	515	530	542 +	533	542	27
27	529	547 +	515 -	488	510 +	522	514	515	531	542 +	531 -	541	28
28	528		516	488	509	524	513 -	516	532	542 +	531 -	540	29
29	527		517	489	507	527 +	514	520	532	542 +	531 -	539	30
30	526 -		516		507		514	525		542 +		544 +	31
31													
Monatsmittel	534	534	531	493 -	499	515	521	517	531	537	540 +	533	
Maximum	541	547	547	518	510 -	532	534	530	543	543	548	553 +	
Datum	20.01	27.02	01.03	01.04	28.05	30.06	16.07	10.08	17.09	27.10	04.11	31.12	
Minimum	525	525	513	482 -	488	507	513	512	519	531 +	530	527	
Datum	31.01	01.02	27.03	24.04	01.05	01.06	25.07	02.08	01.09	01.10	29.11	15.12	
Amplitude	16	22	34	36	22	25	21	18	24	12	18	26	
Jahr 2009	Mittel	524		Maximum	553 (31.Dez)		Minimum	482 (24.Apr)		Amplitude	71		



Periode	2006 - 2009											
Monatsmittel	521	525	520	499 -	499 -	515	518	525	529	527	533 +	529
Maximum	541	547	547	523	516 -	544	534	798 +	677	555	549	556
Jahr	2009	2009	2009	2007	2007	2007	2009	2007	2006	2006	2007	2008
Minimum	506	509	500	482 -	484	502	503	506	504	509	522 +	509
Jahr	2008	2008	2008	2009	2008	2008	2008	2007	2007	2007	2008	2007
Amplitude	17 -	22	34	36	22	39	28	292 +	155	39	21	34
Jahr	2007	2009	2009	2009	2009	2007	2008	2007	2006	2006	2007	2008
Periode	Mittel	521		Maximum	798 (11.Aug 2007)		Minimum	482 (24.Apr 2009)		Amplitude	316	

Darstellung der letzten 4 Jahre



Grundwasserspiegel im Birstal

Station 11.J.3

Aesch

Pentapharm

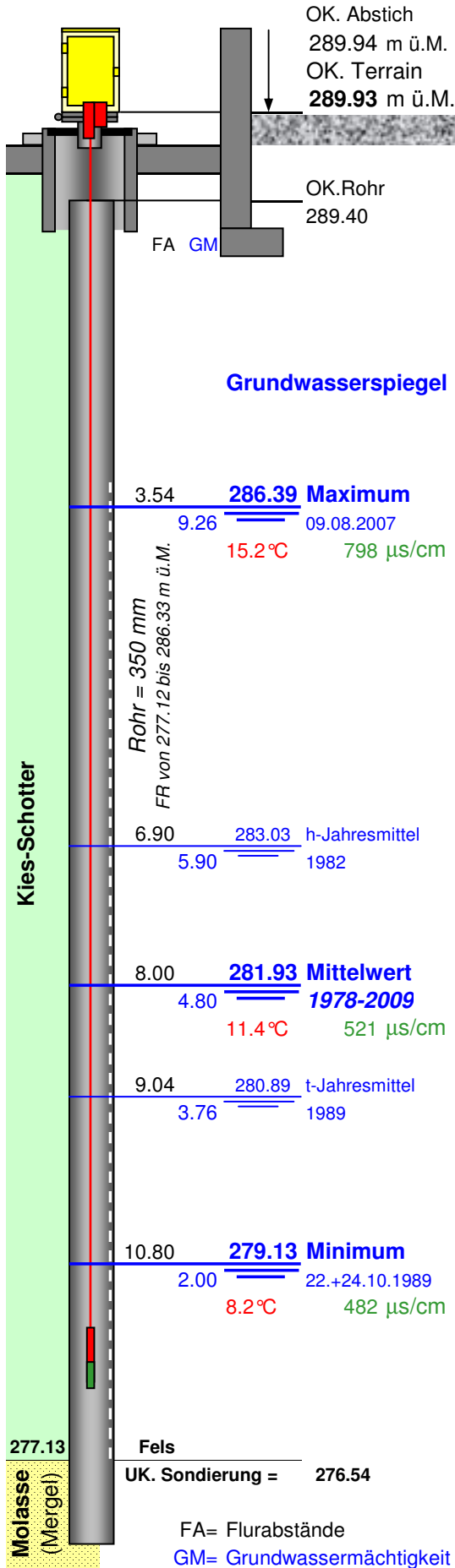
OPK 209446

Koordinaten: 612'556.36 / 258'994.64

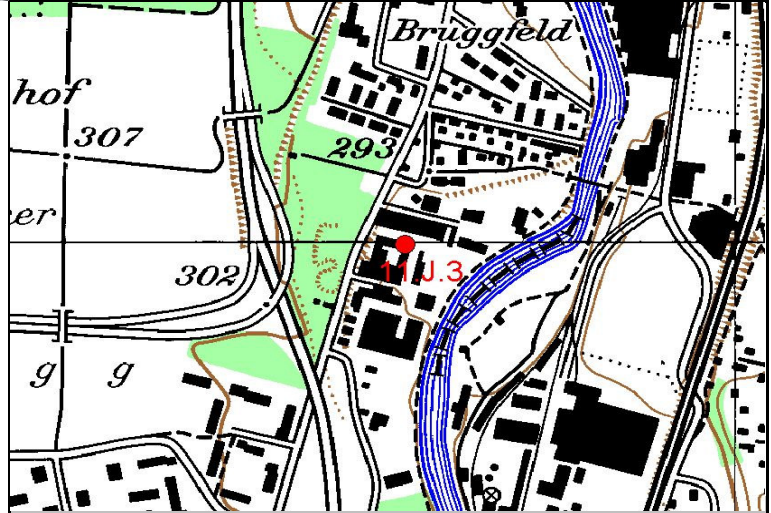
Messwerte: Grundwasserspiegel

Temperatur

Leitfähigkeit



Kartenausschnitt Aesch



Situationsplan Aesch

