

Militärische Munitionsversenkungen
in Schweizer Seen

Explosivstoffmonitoring
2012-2016

Beilagen zum Bericht

Auftraggeber

Generalsekretariat VBS
Raum und Umwelt VBS
Maulbeerstrasse 9
3003 Bern
&
Umweltfachstellen der Kantone Bern,
Luzern, Nidwalden, Schwyz und Uri

Untersuchungsperimeter

- Thunersee
- Brienzersee
- Urnersee
- Gersauerbecken

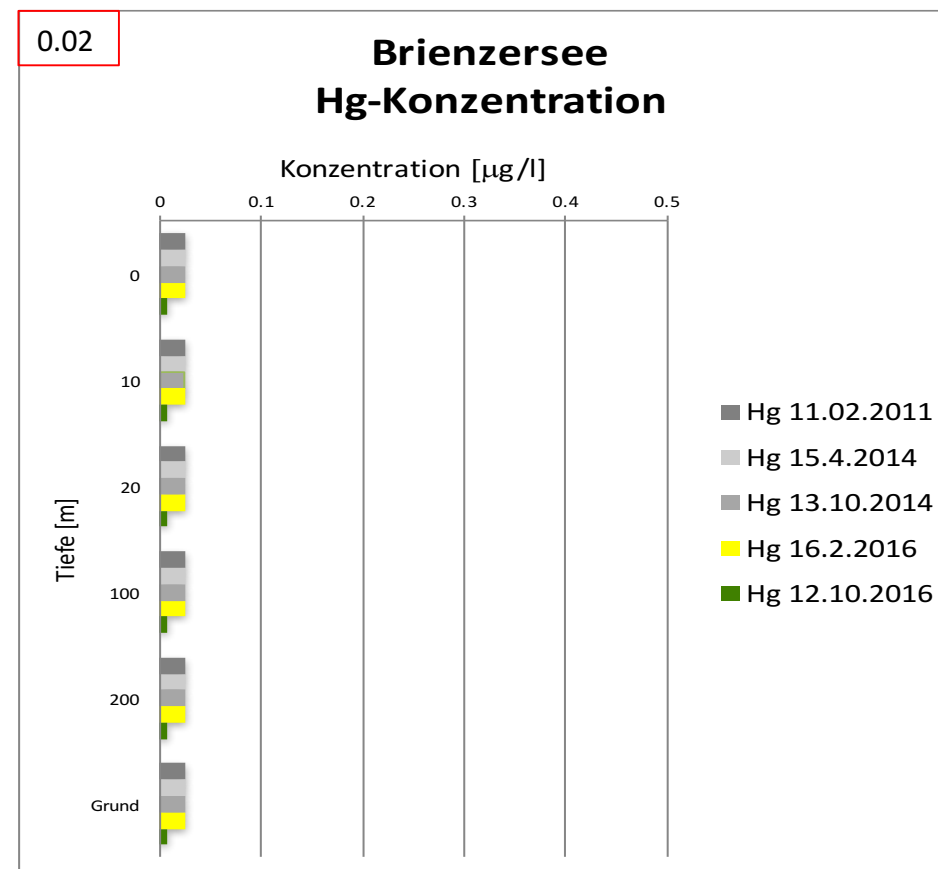
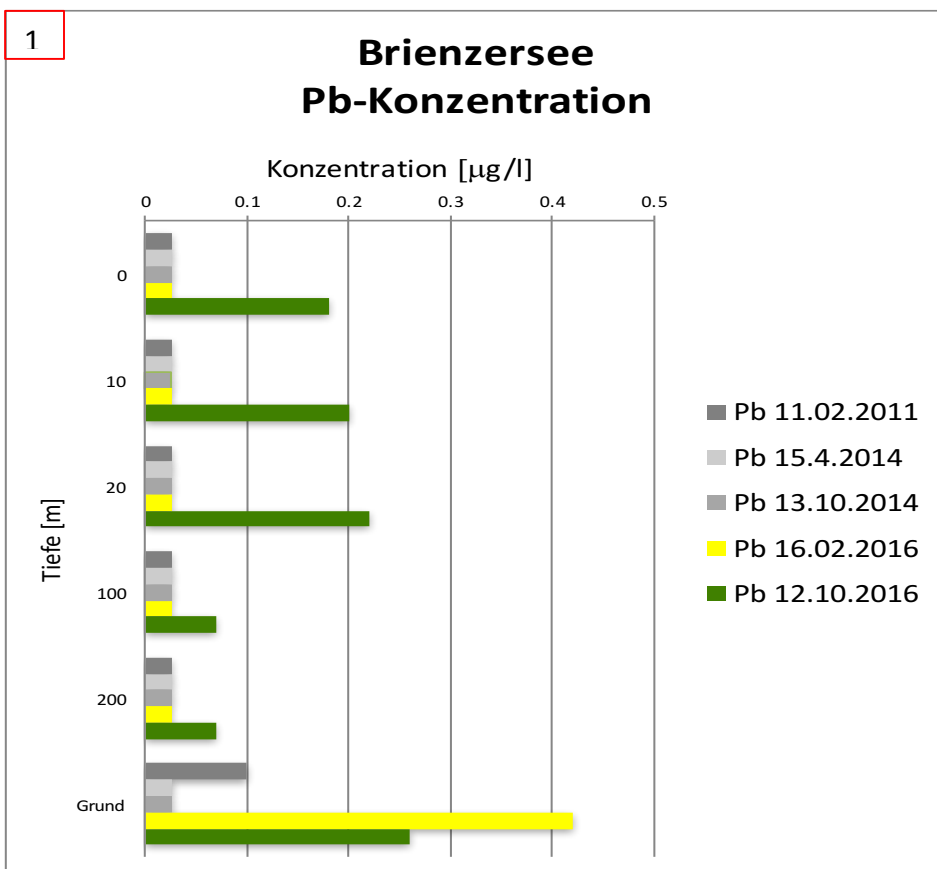
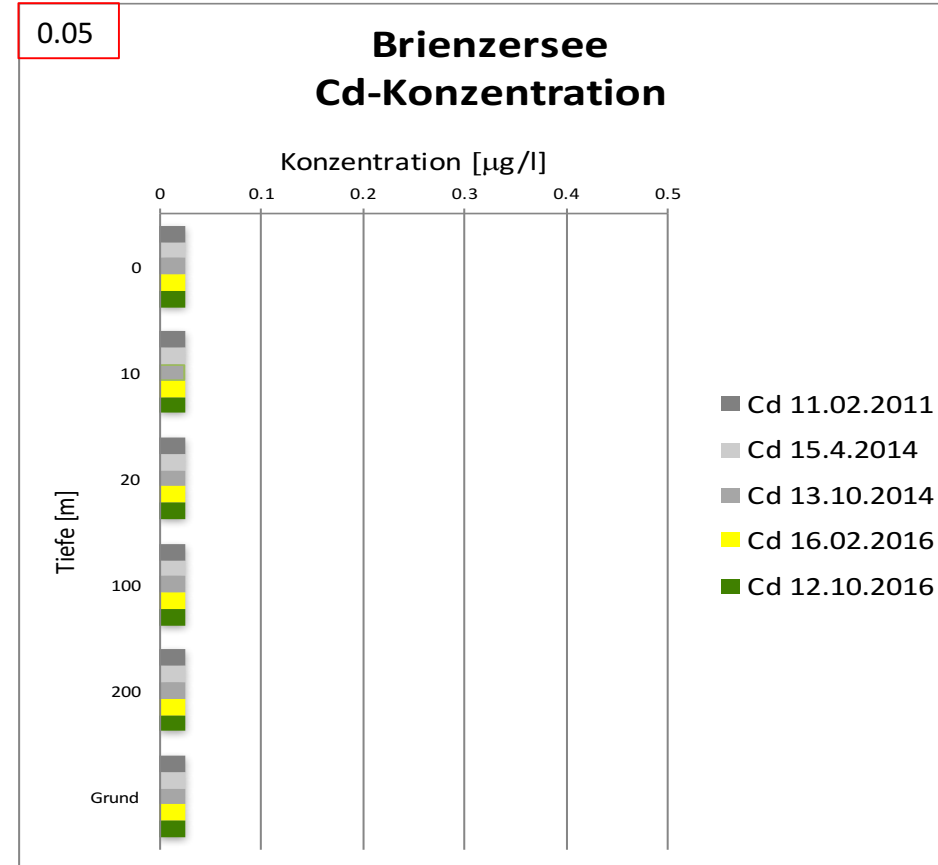
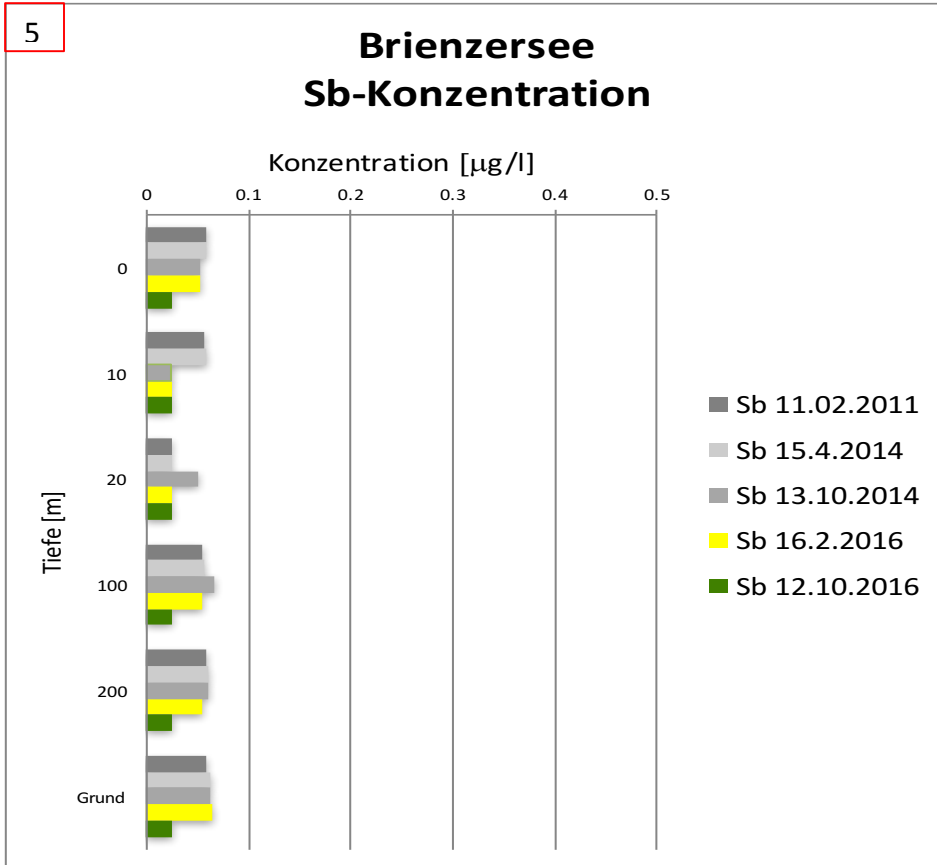
Berichtverfasser

Geologische Beratungen Schenker
Korner Richter AG
Büttenenhalde 42
6006 Luzern

Projektaufsicht:

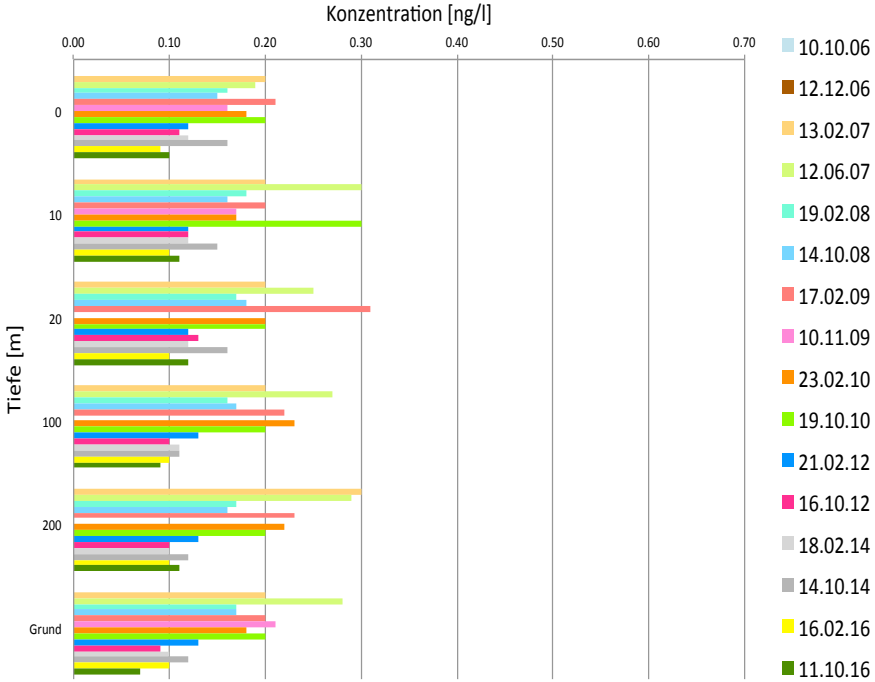
GS VBS RU, Abteilungsleitung
AfU UR, Amtsleitung
BVE/AWA BE, Amtsleitung

24. Mai 2017



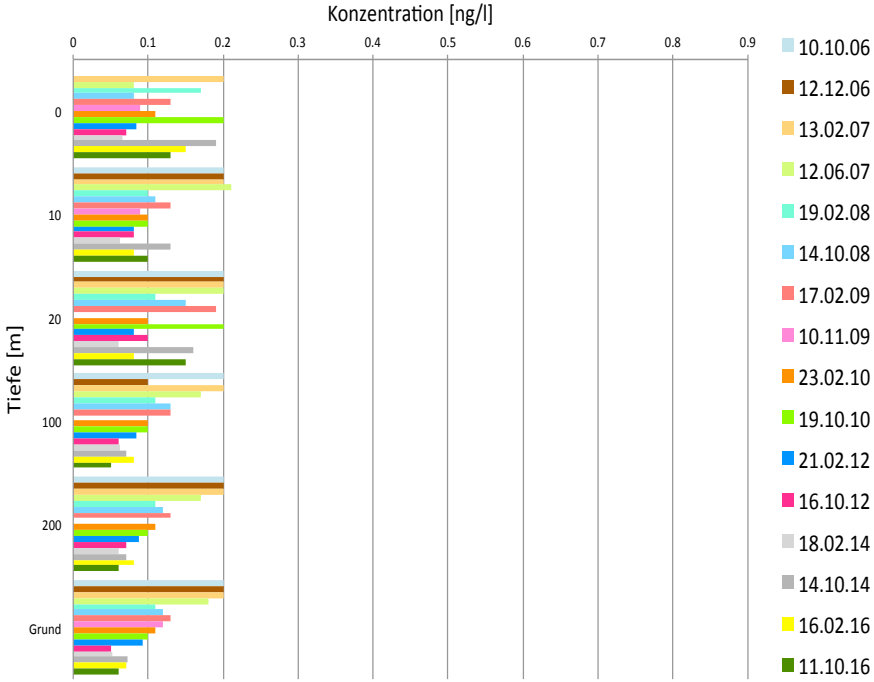
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**Brienzersee
HMX-Konzentration**



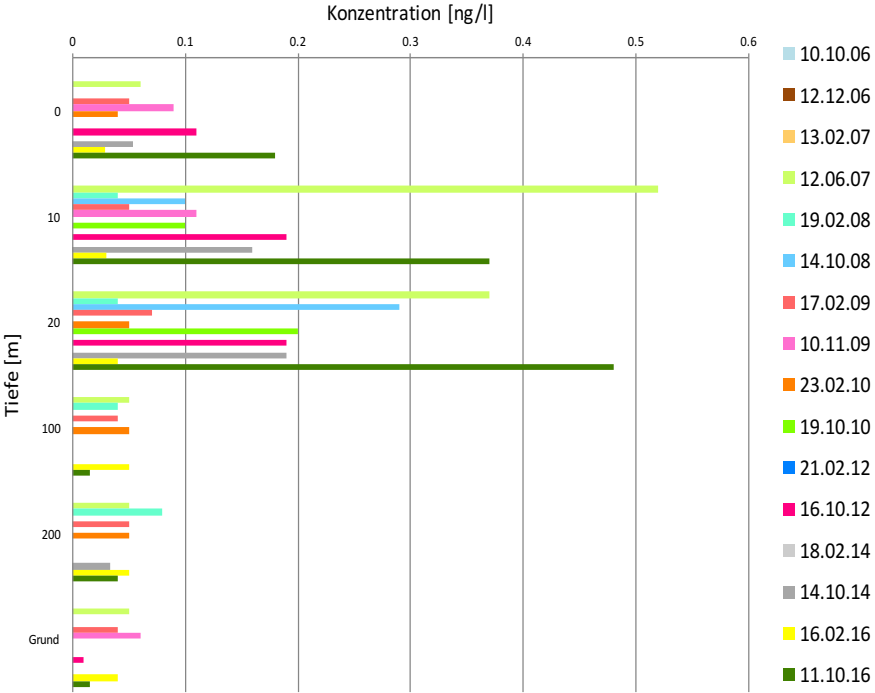
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**Brienzersee
RDX-Konzentration**



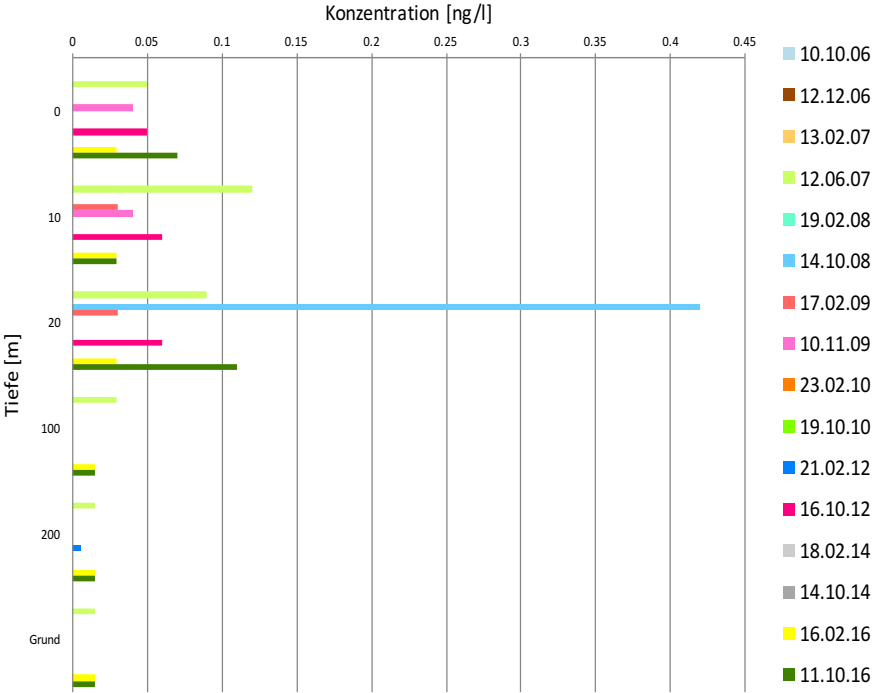
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**Brienzersee
4-Amino-2,6-dinit.-Konzentration**



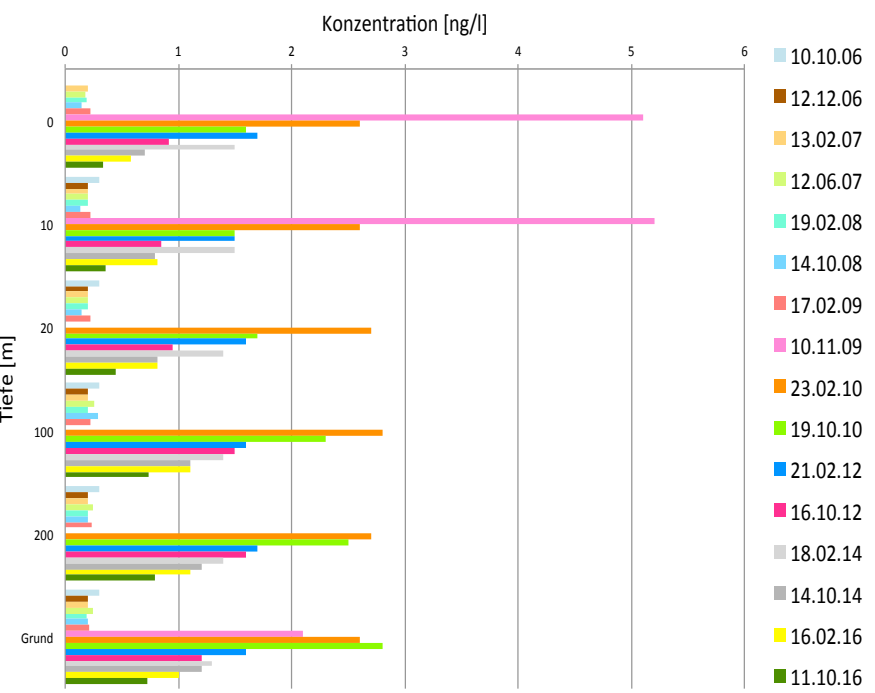
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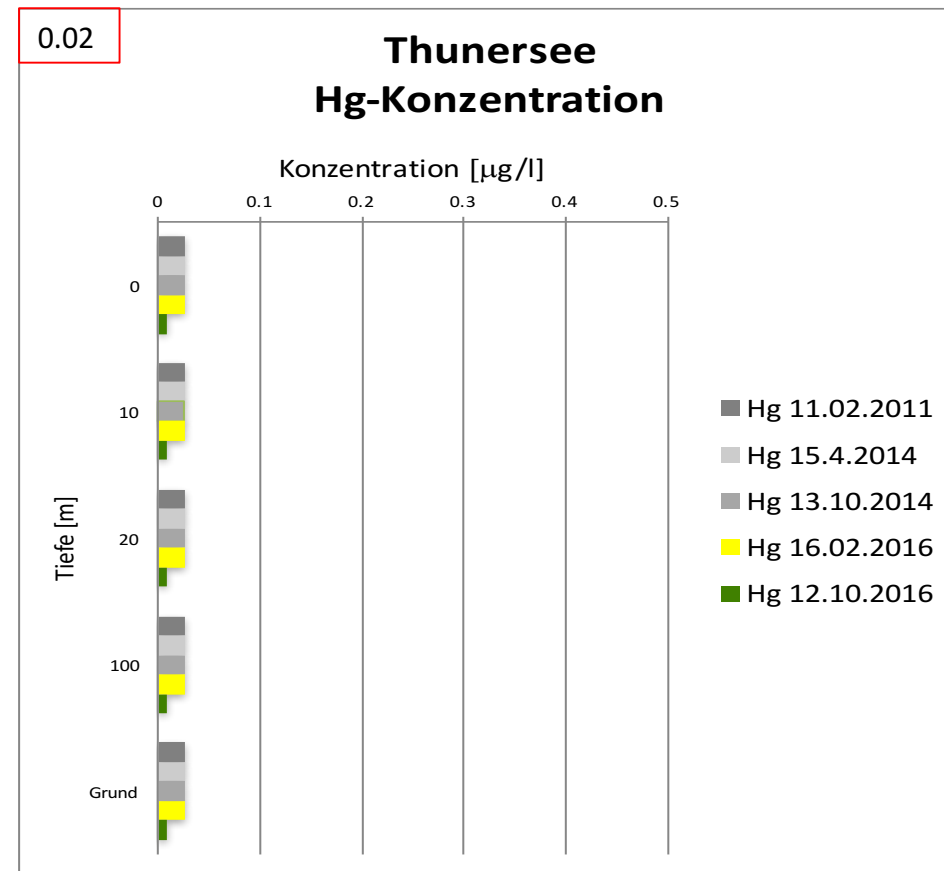
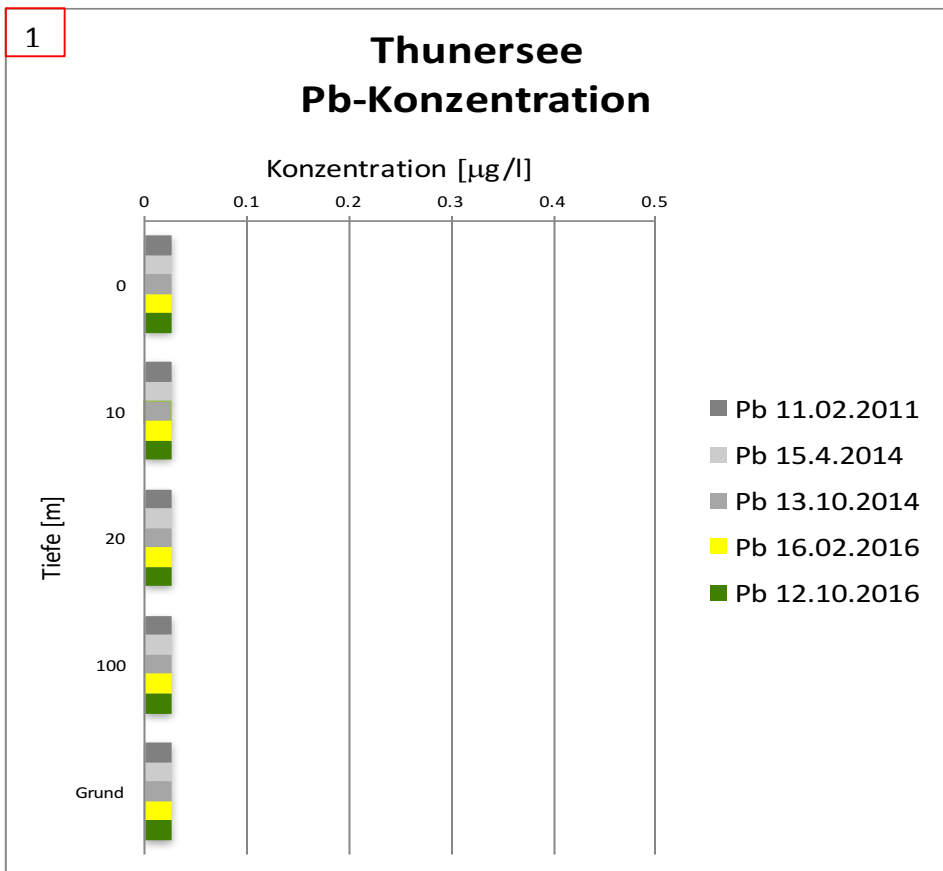
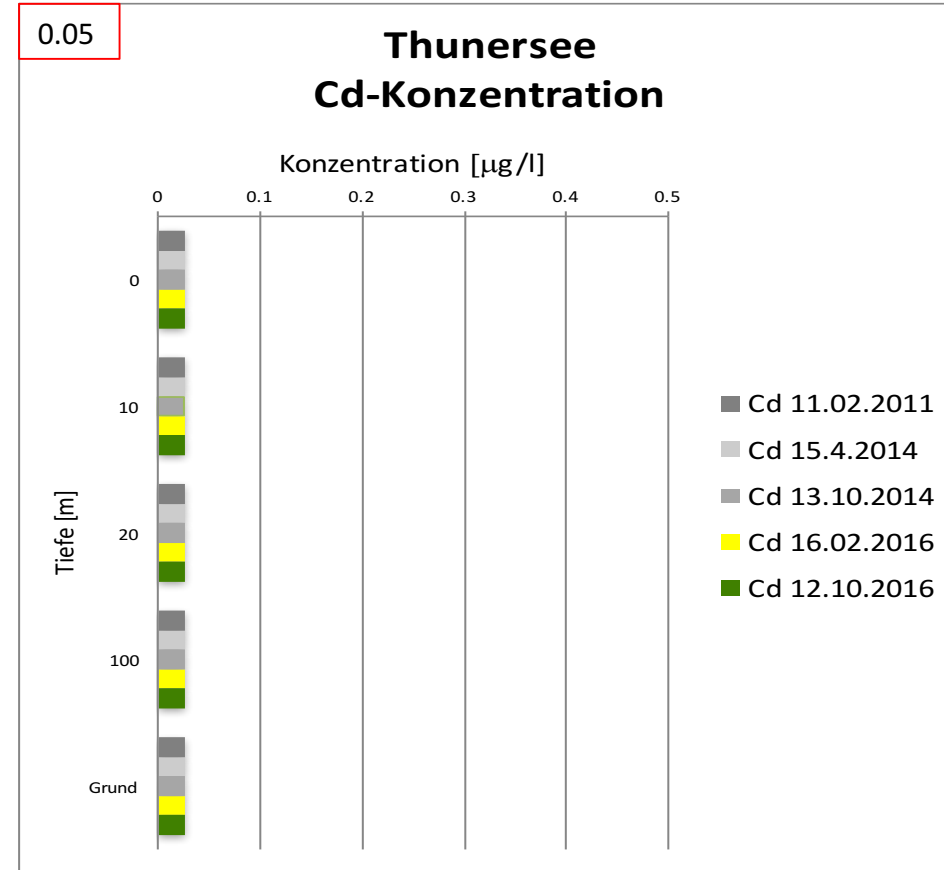
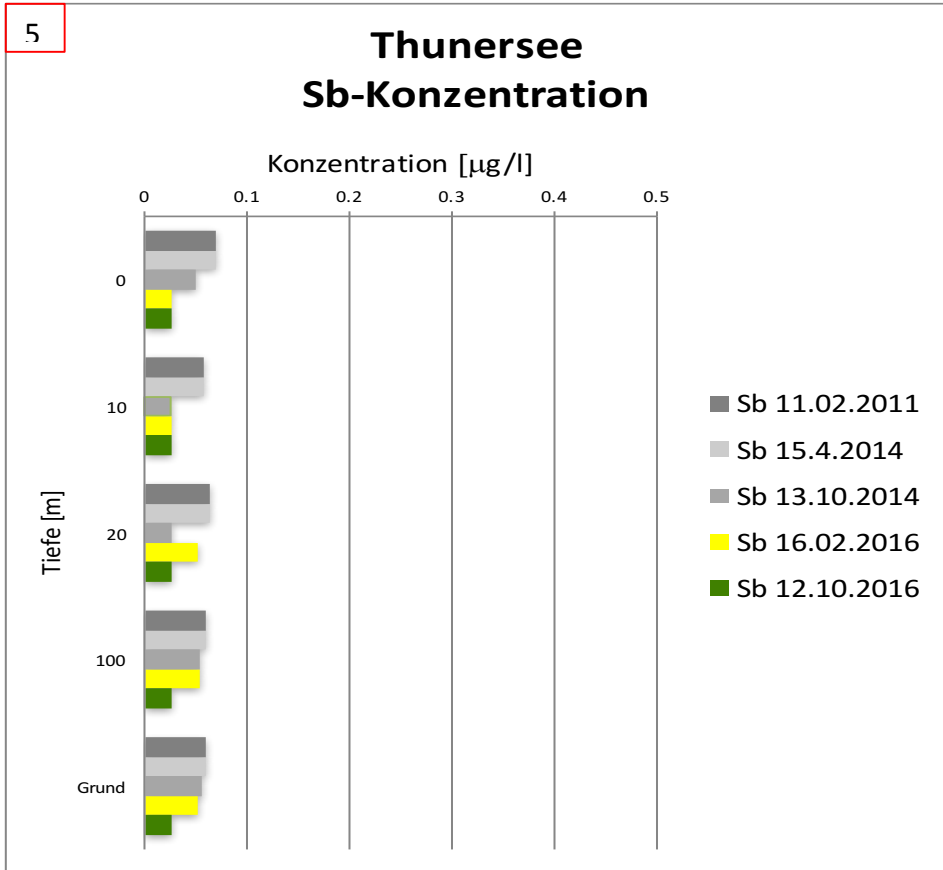
**Brienzersee
2-Amino-4,6-dinit.-Konzentration**

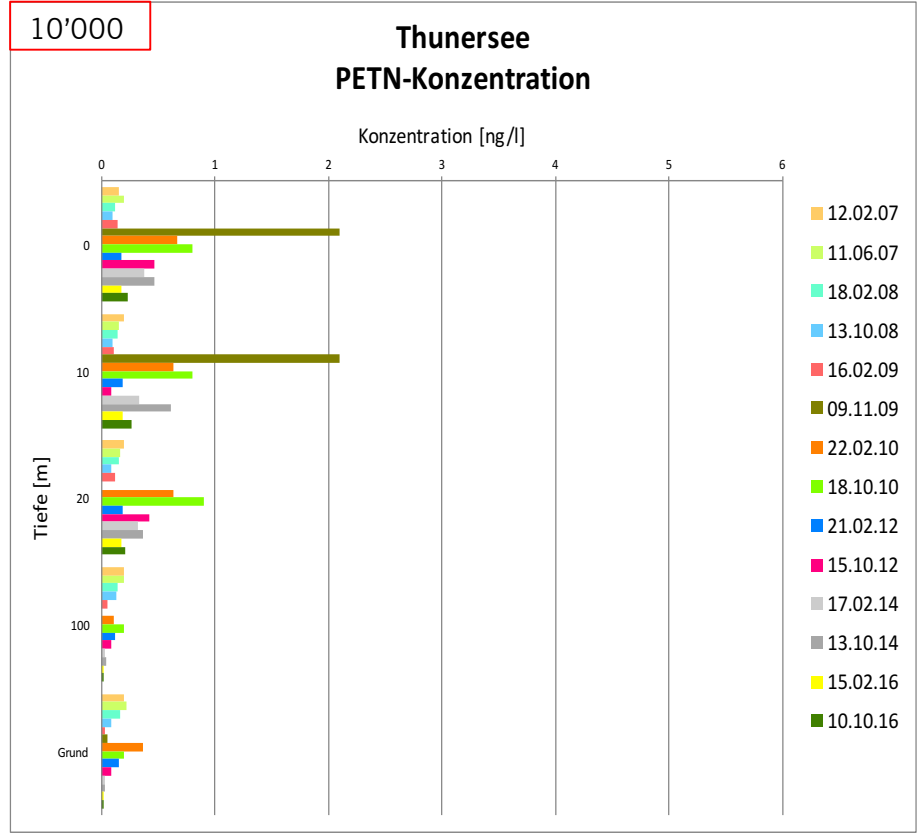
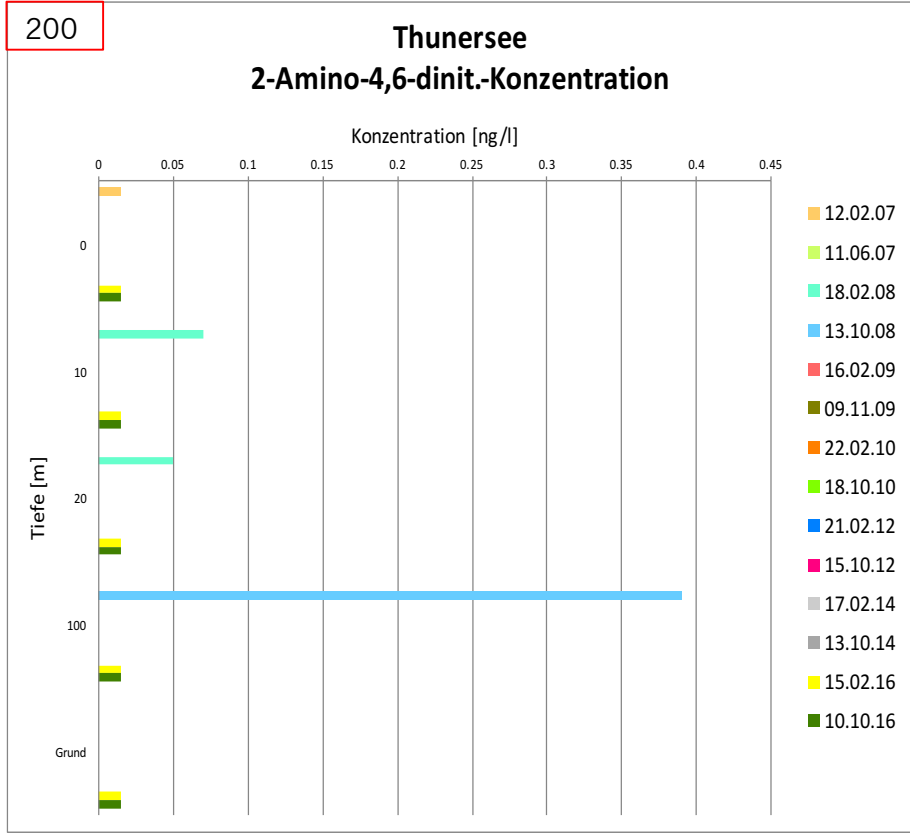
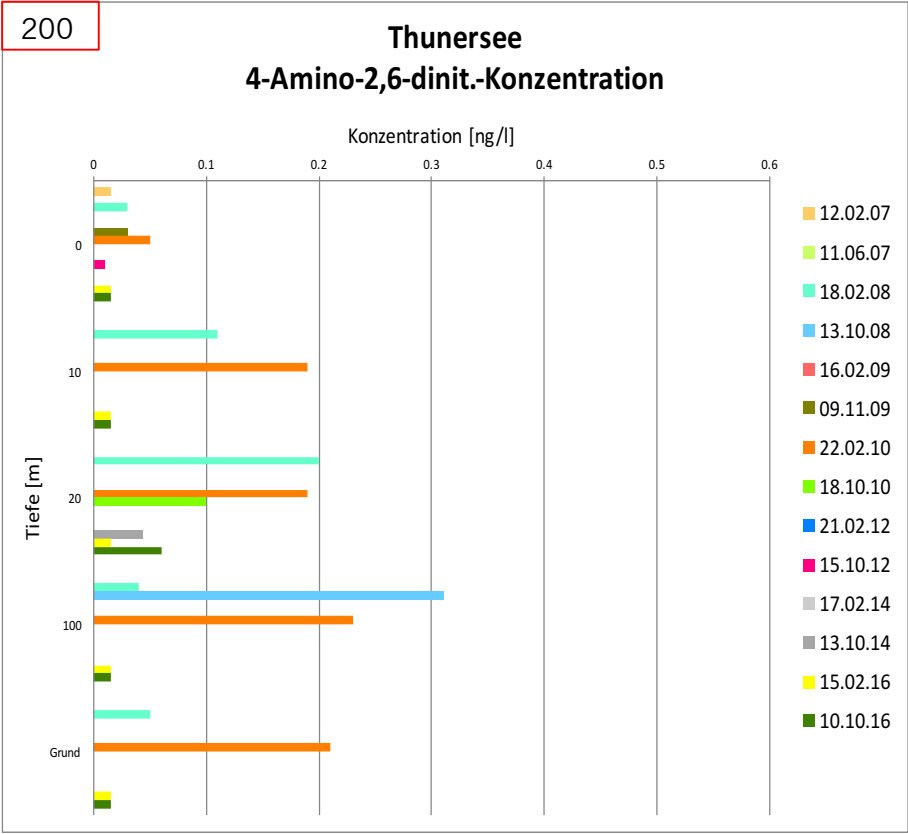
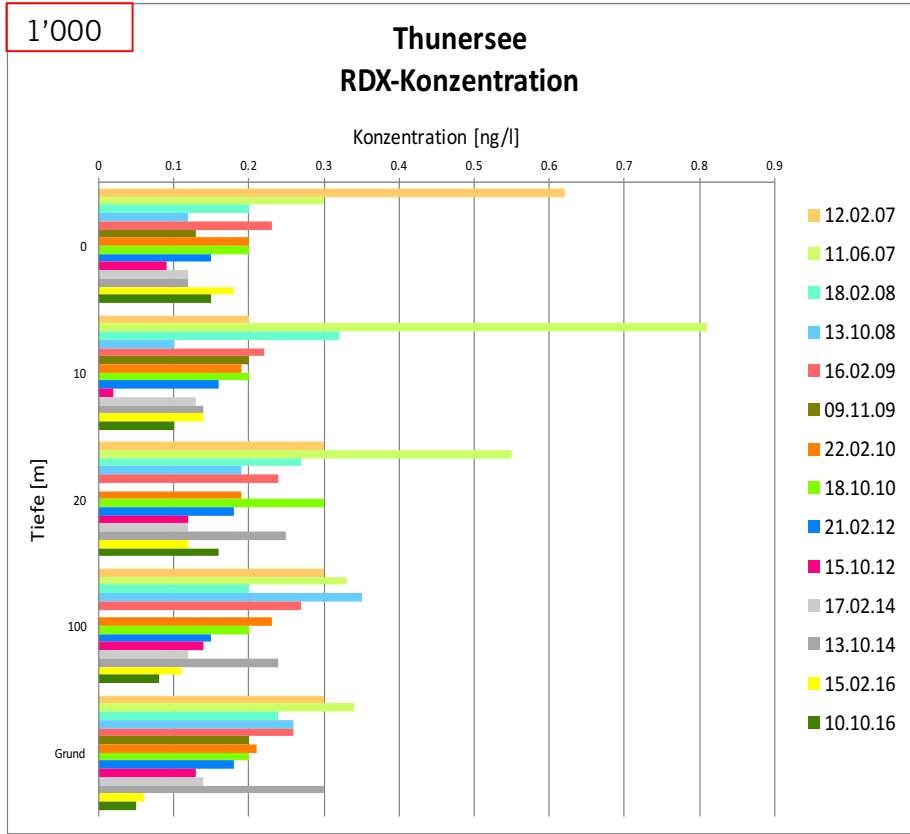
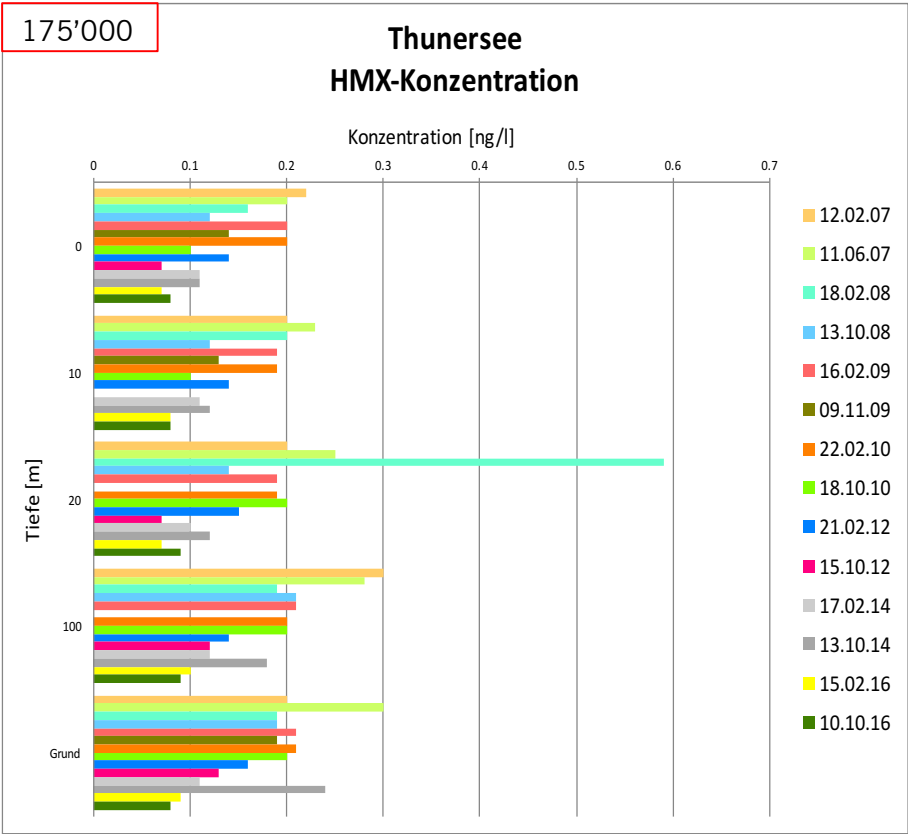


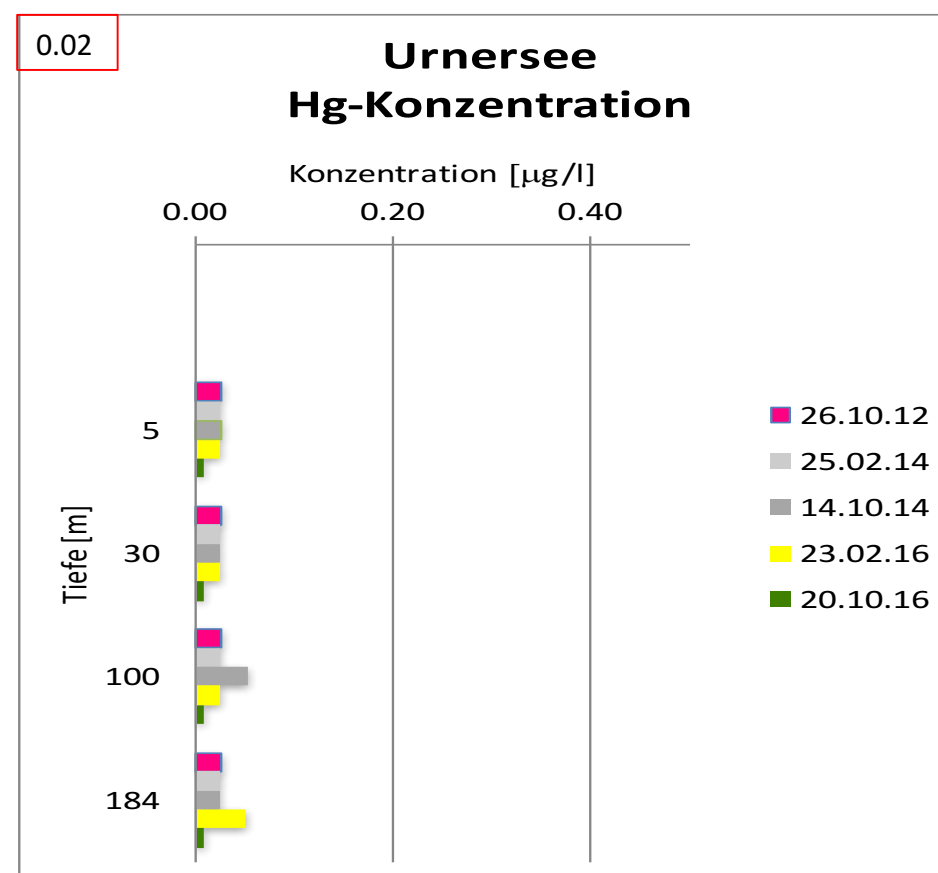
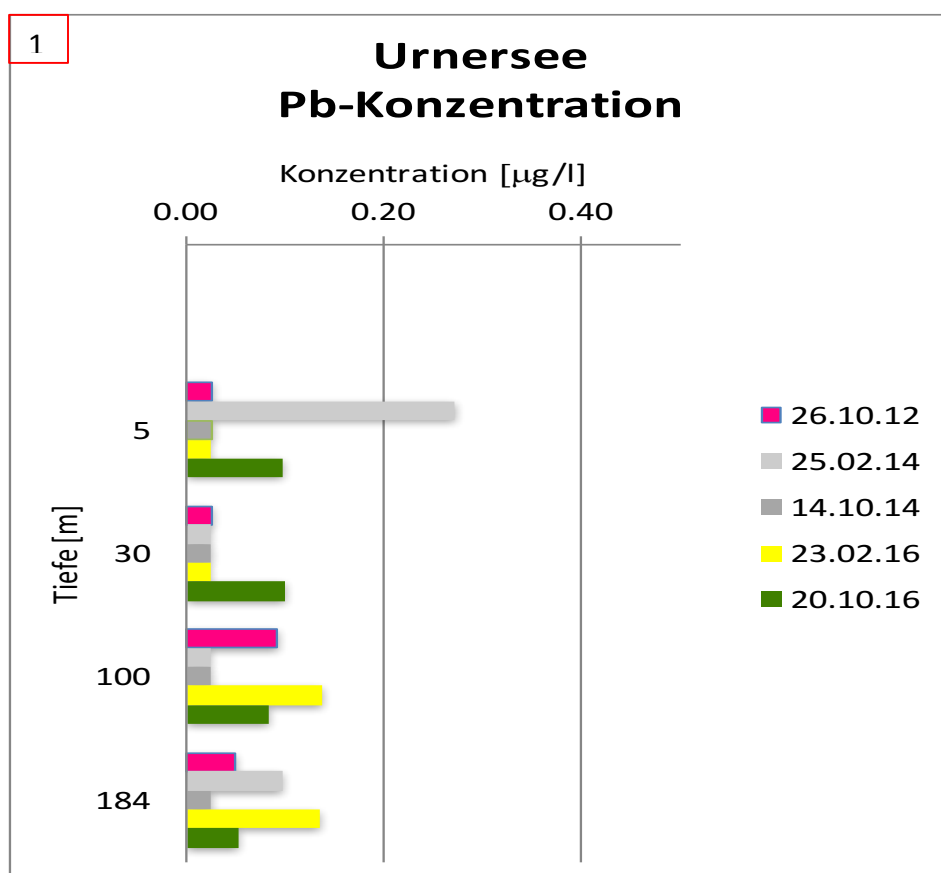
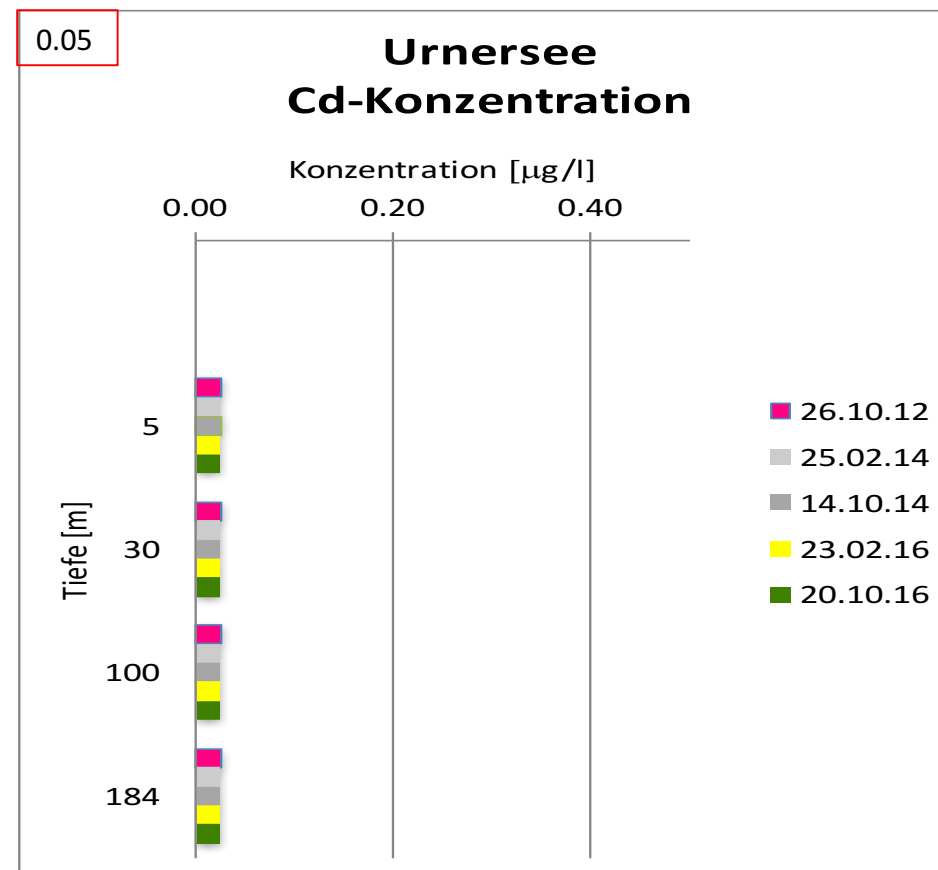
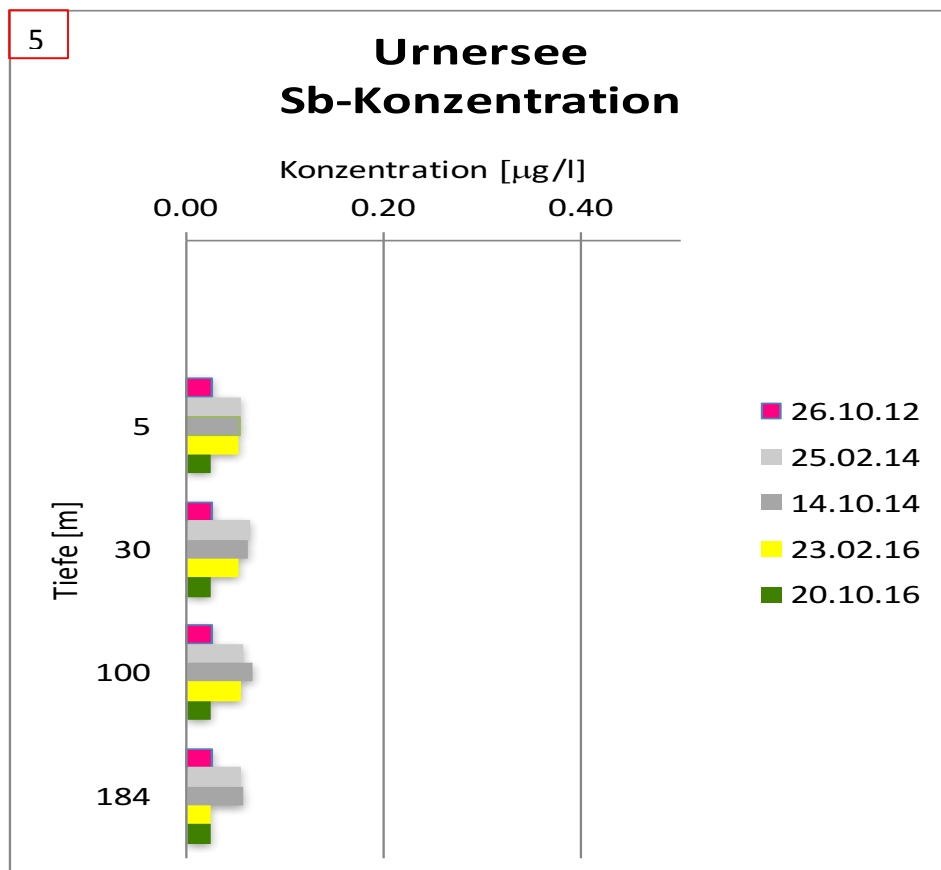
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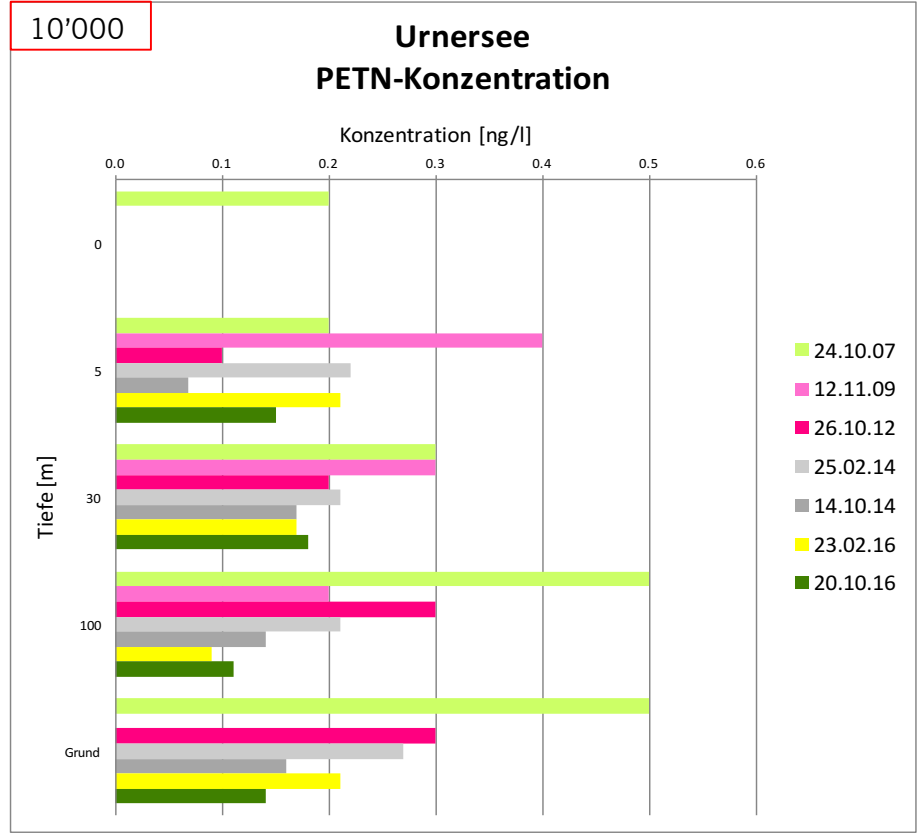
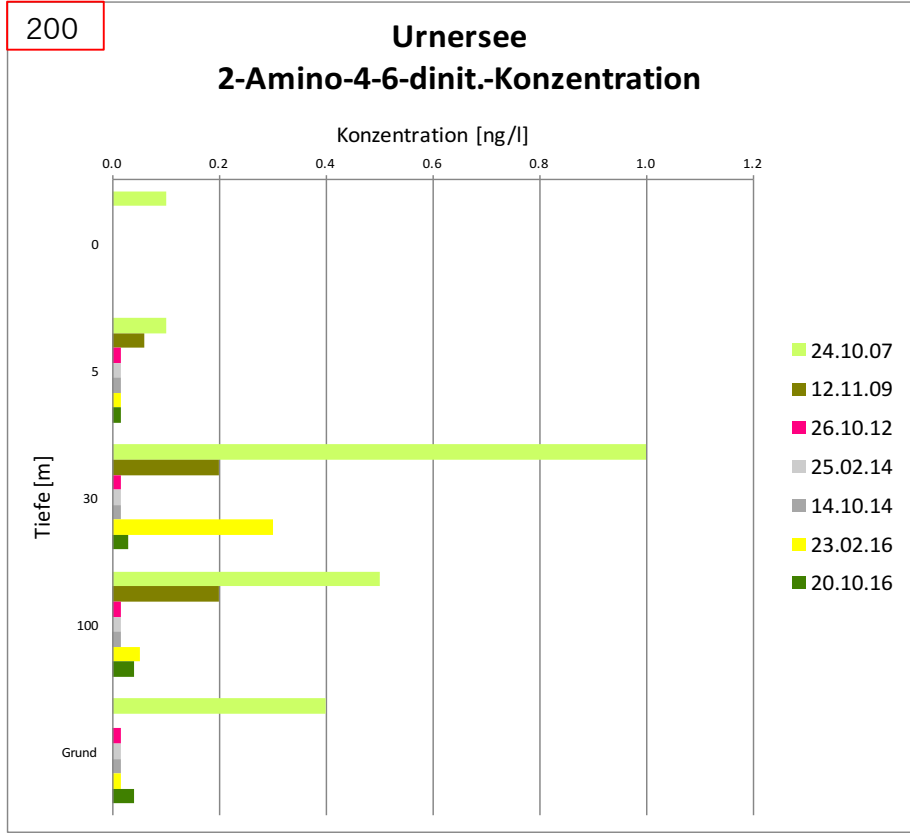
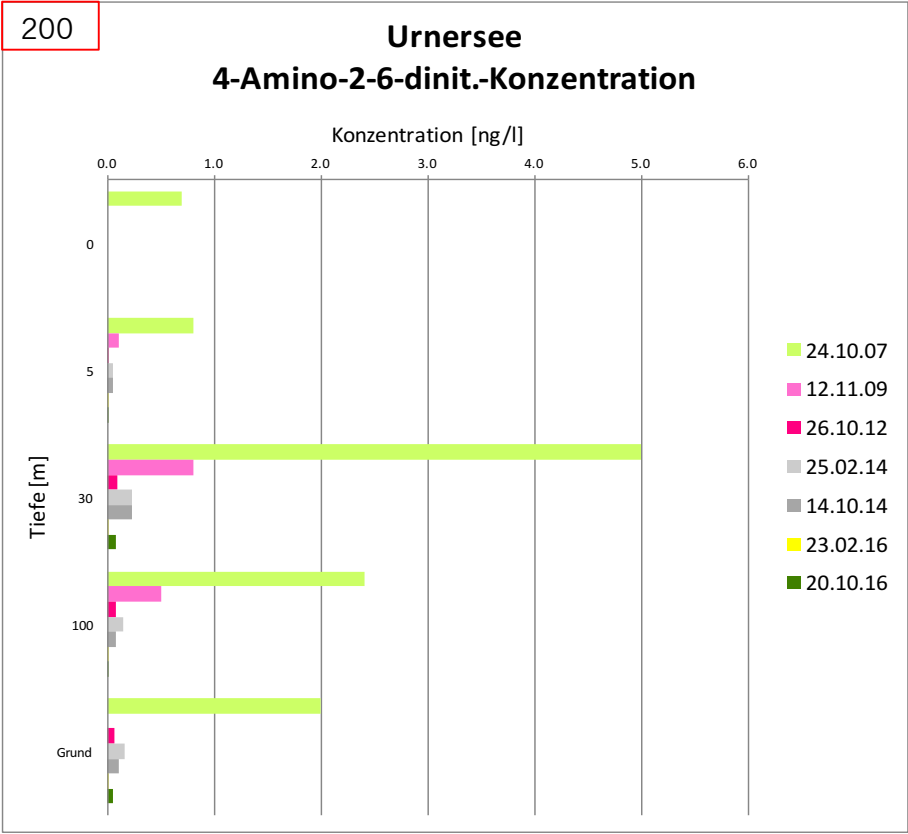
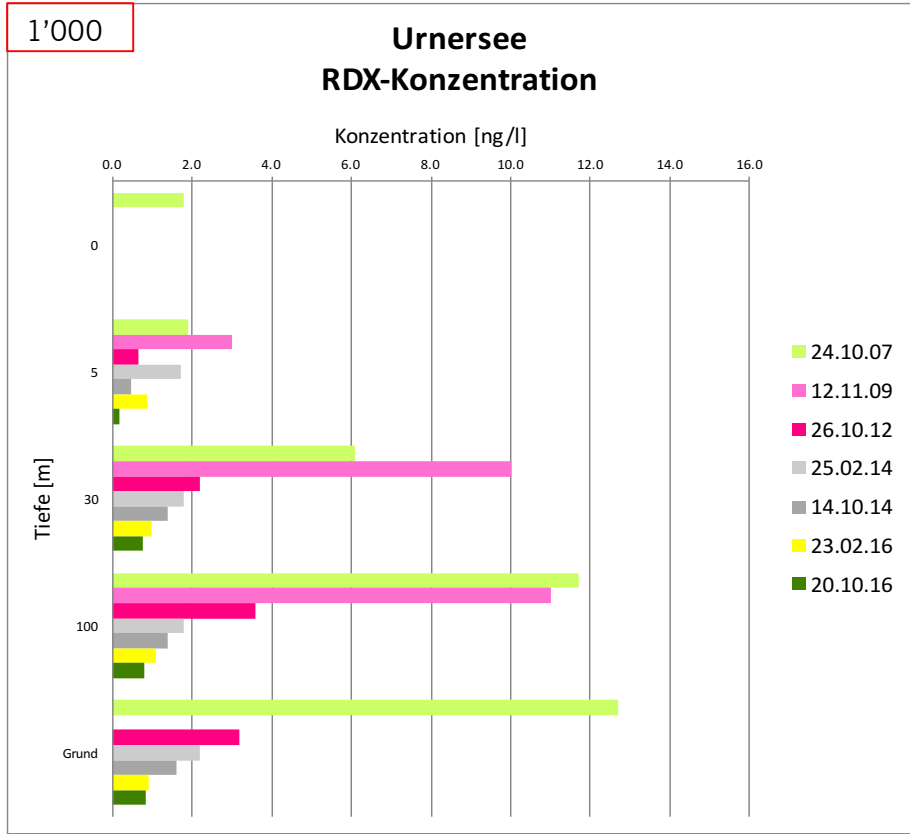
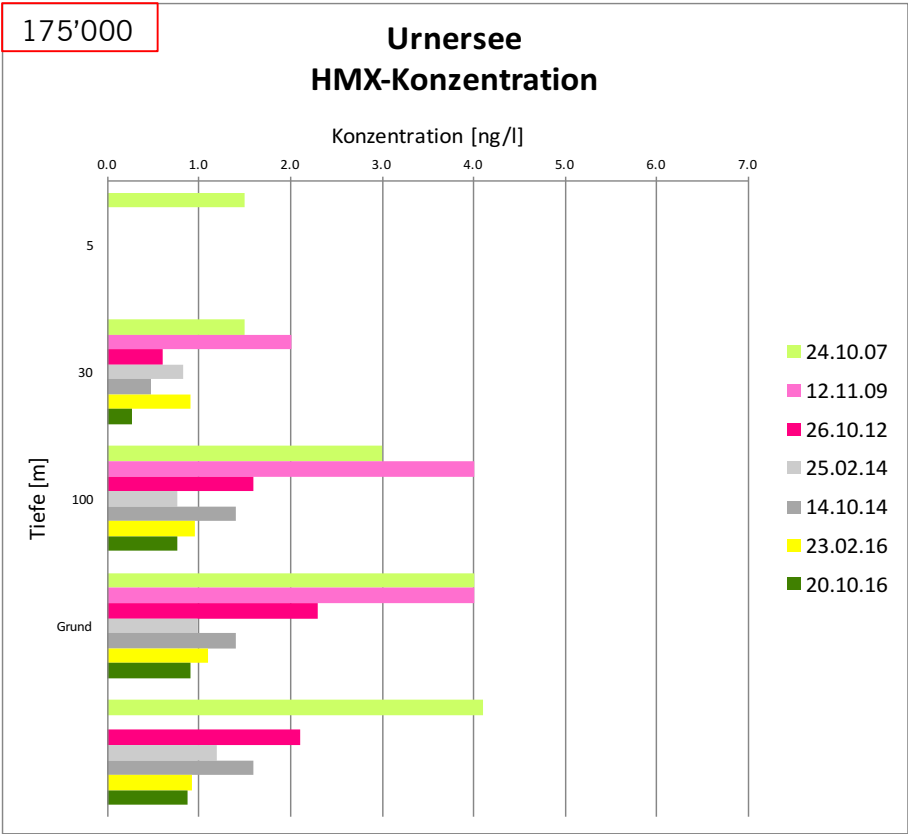
**Brienzersee
PETN-Konzentration**

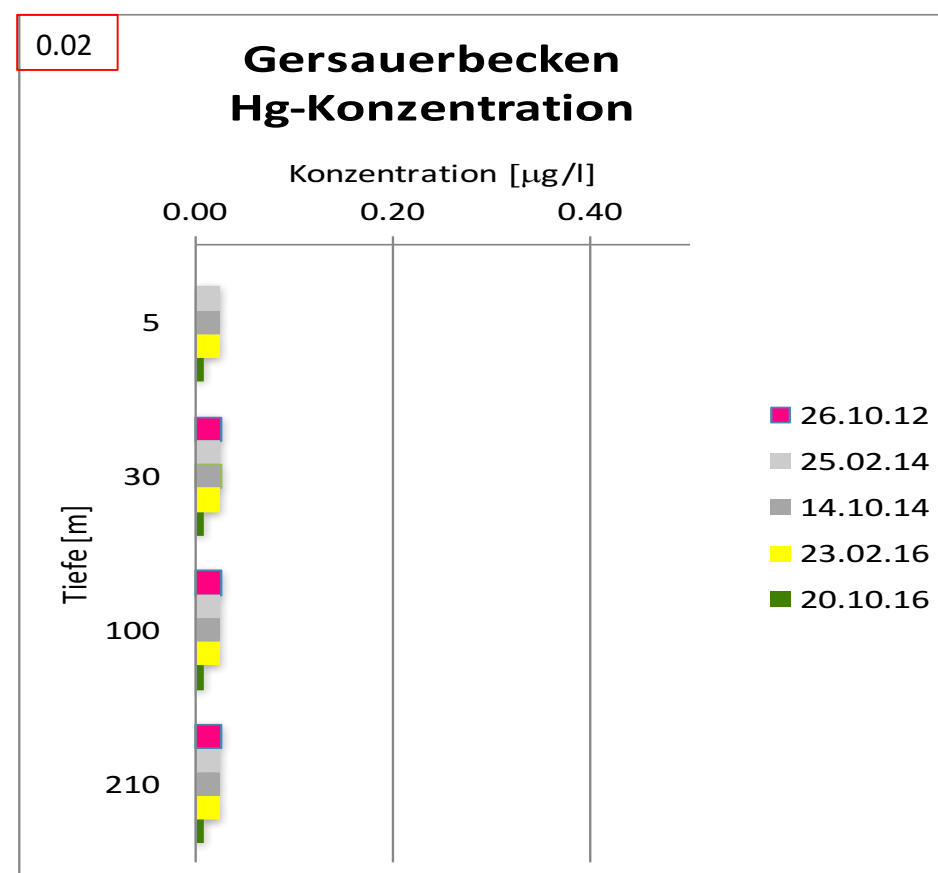
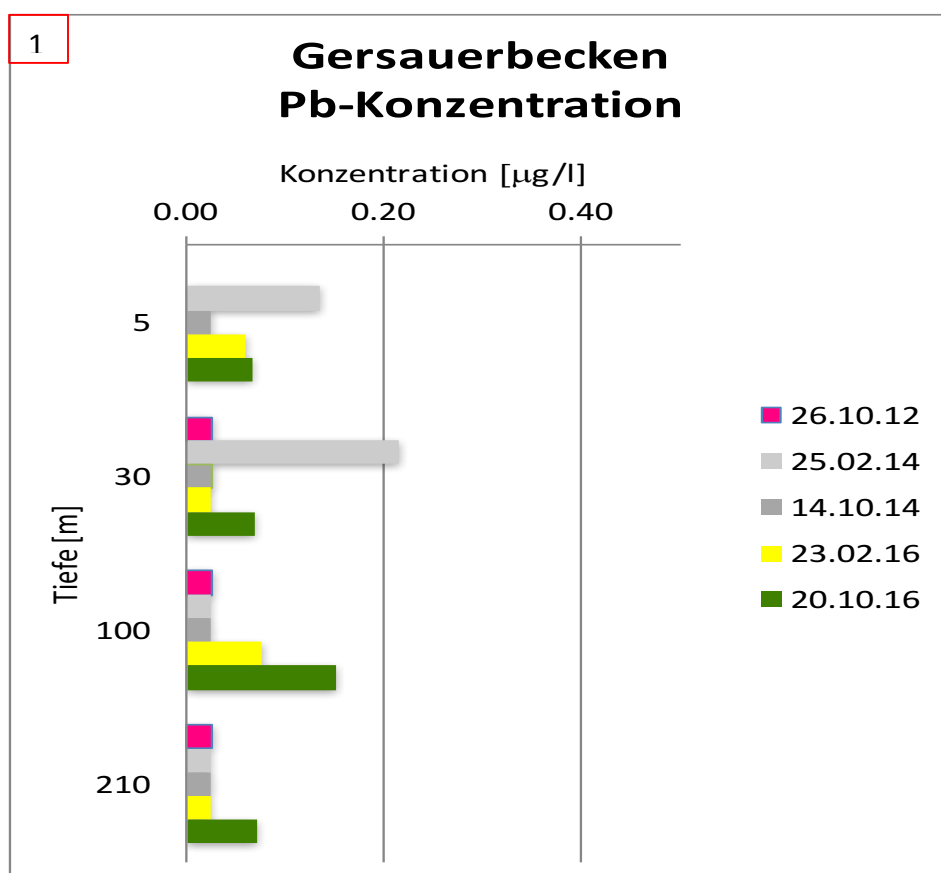
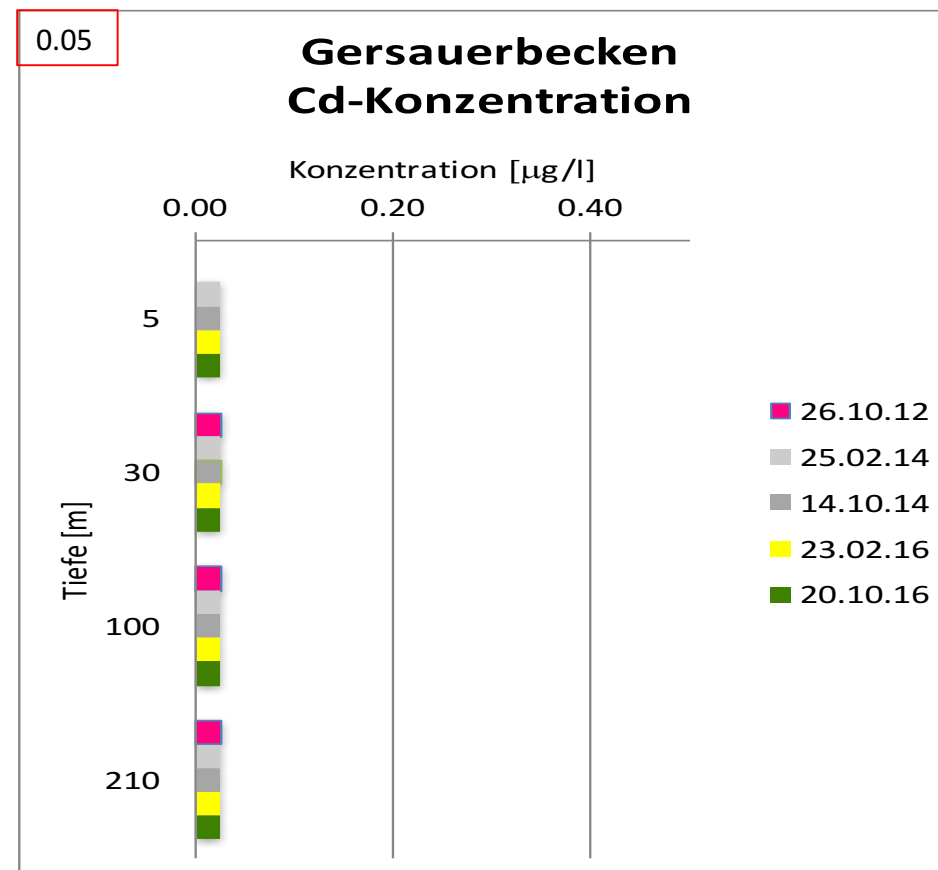
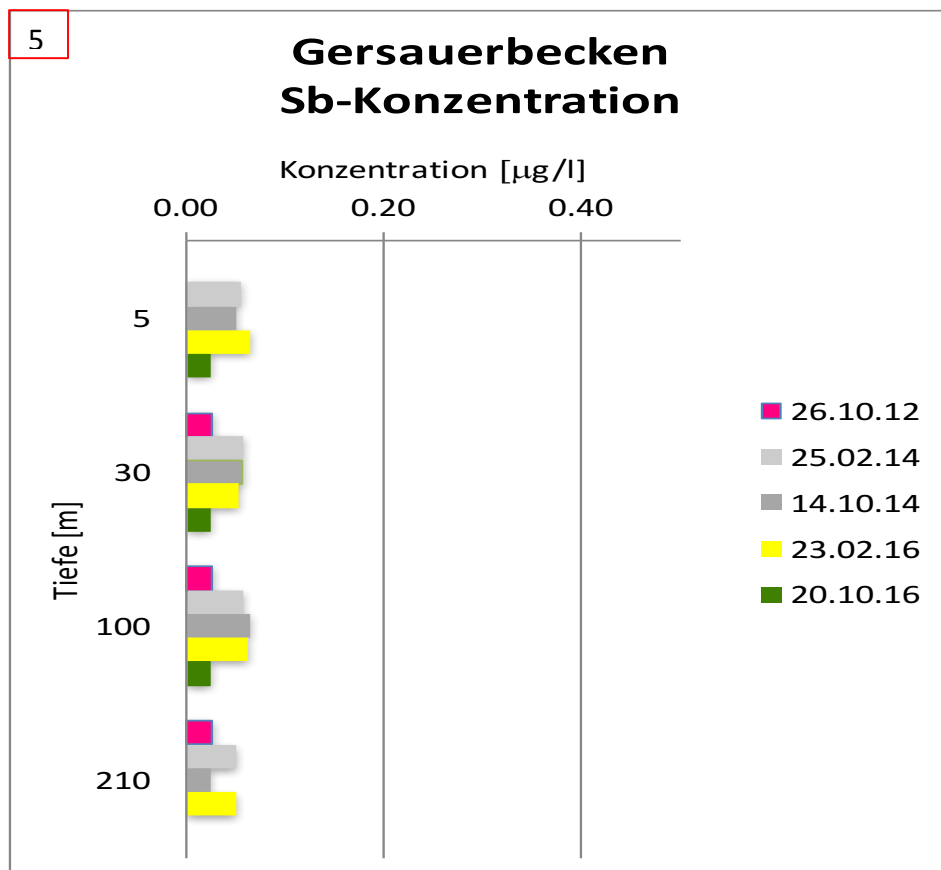


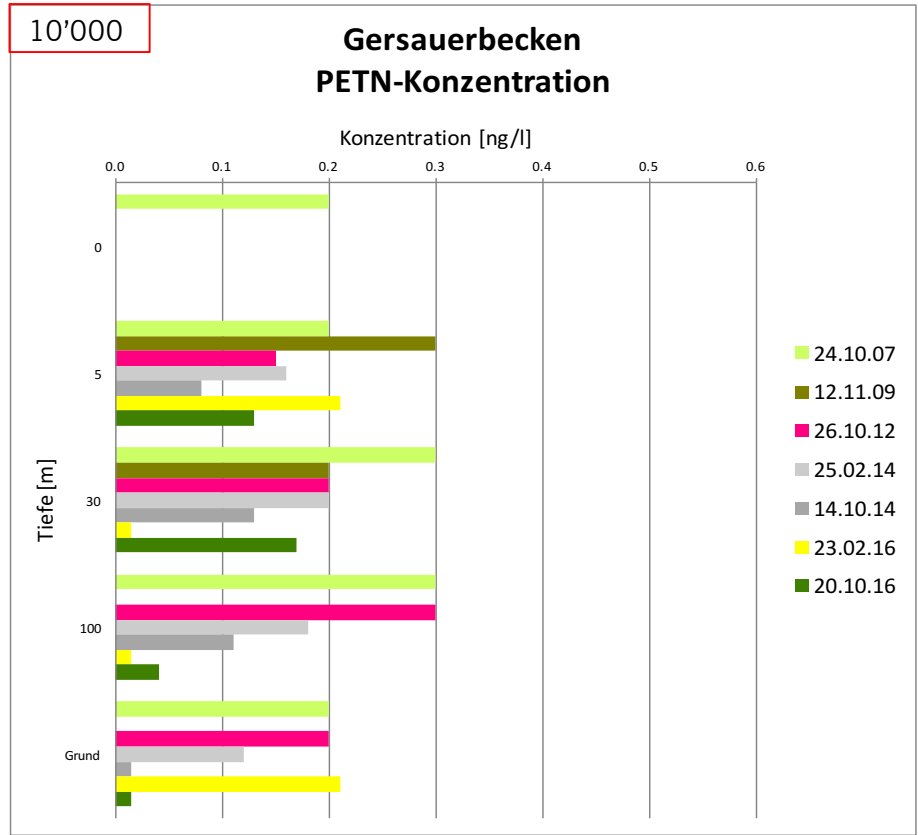
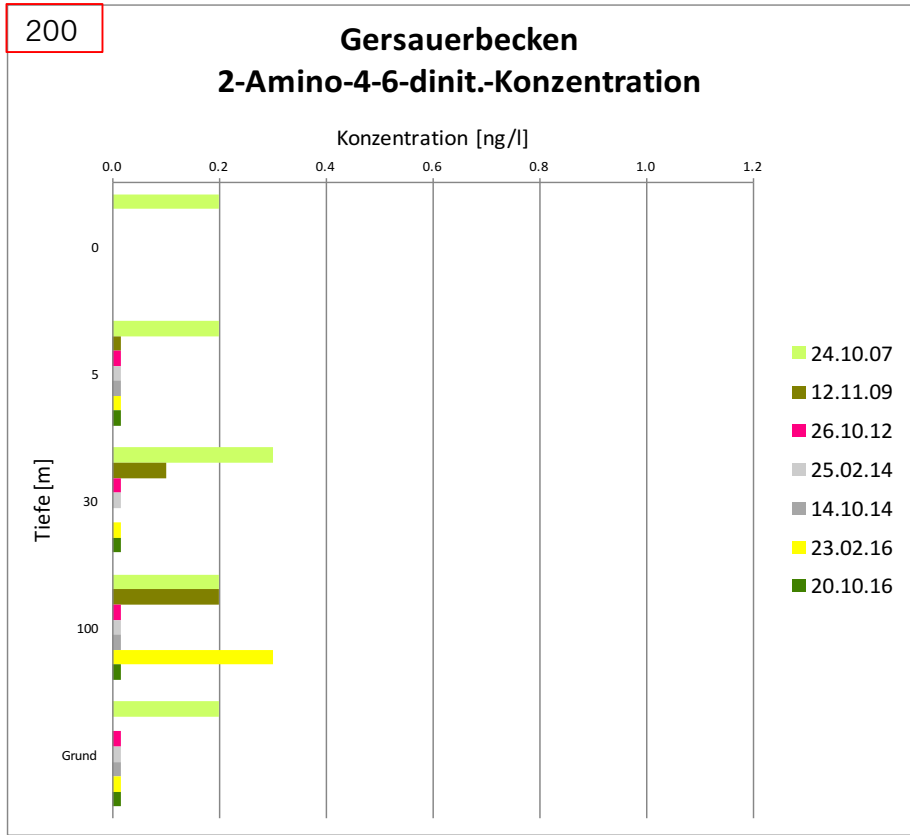
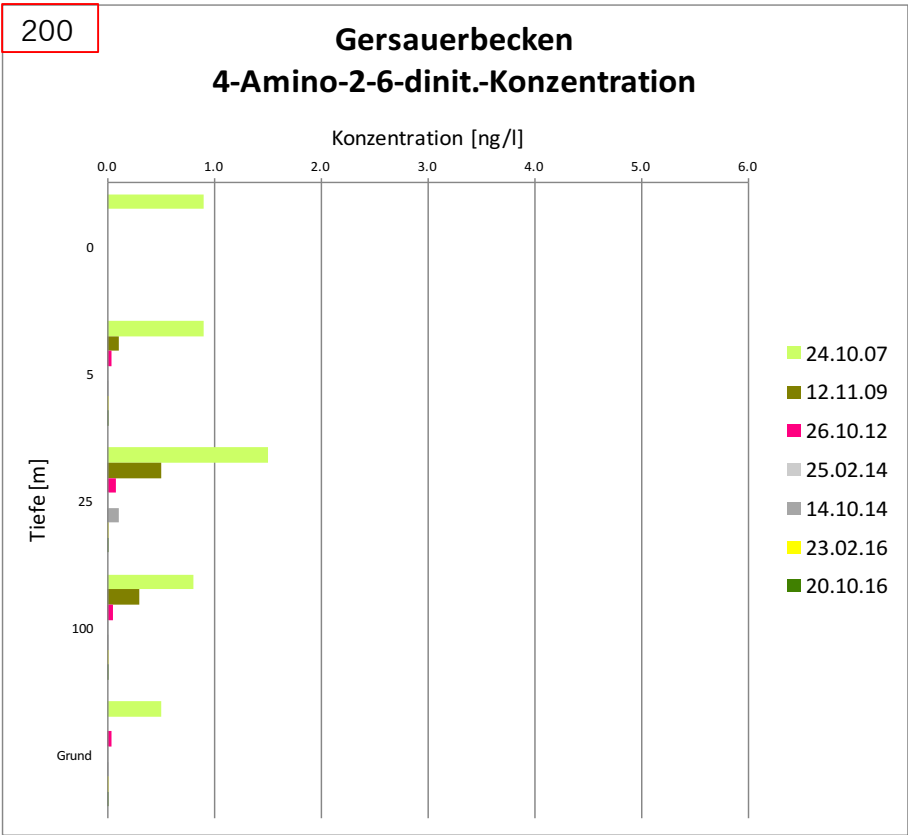
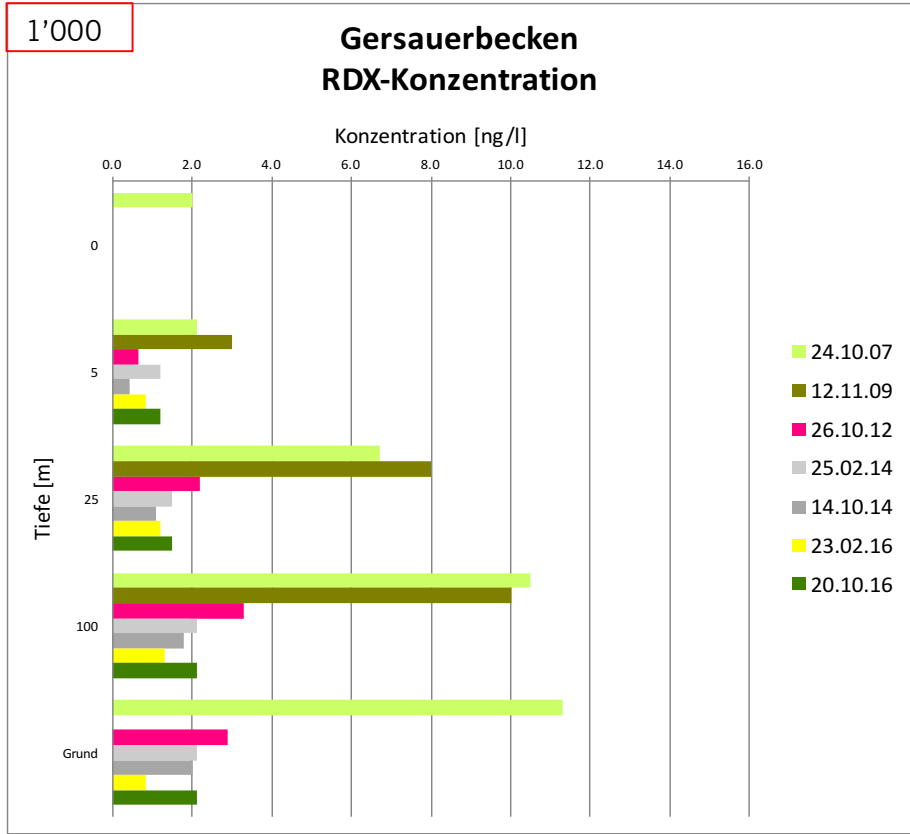
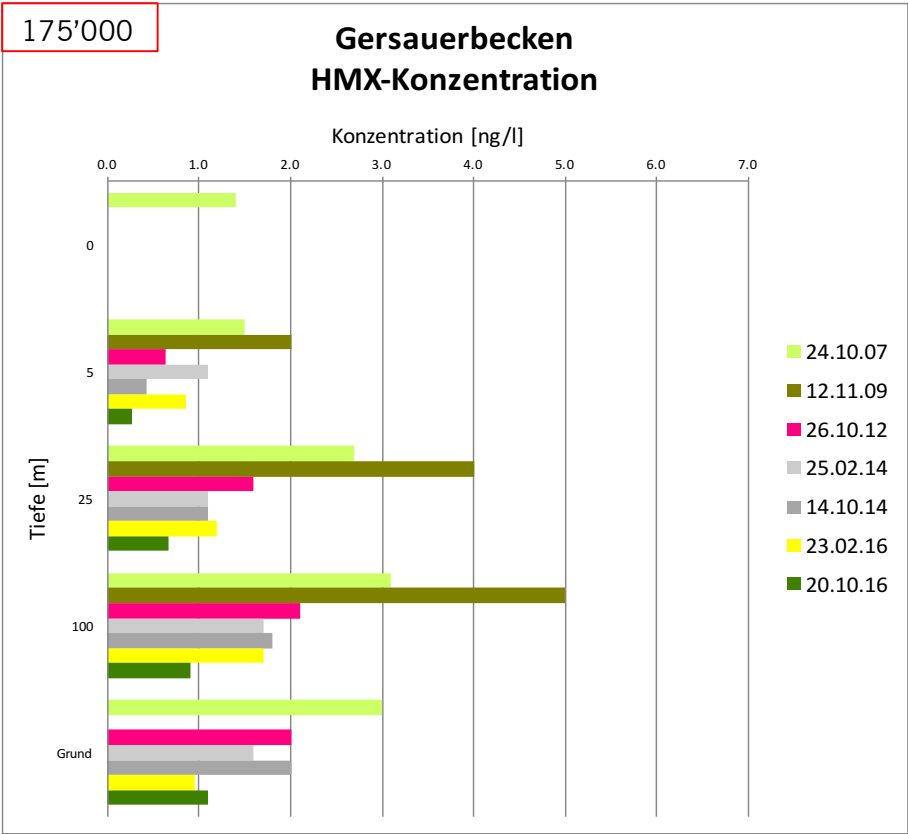


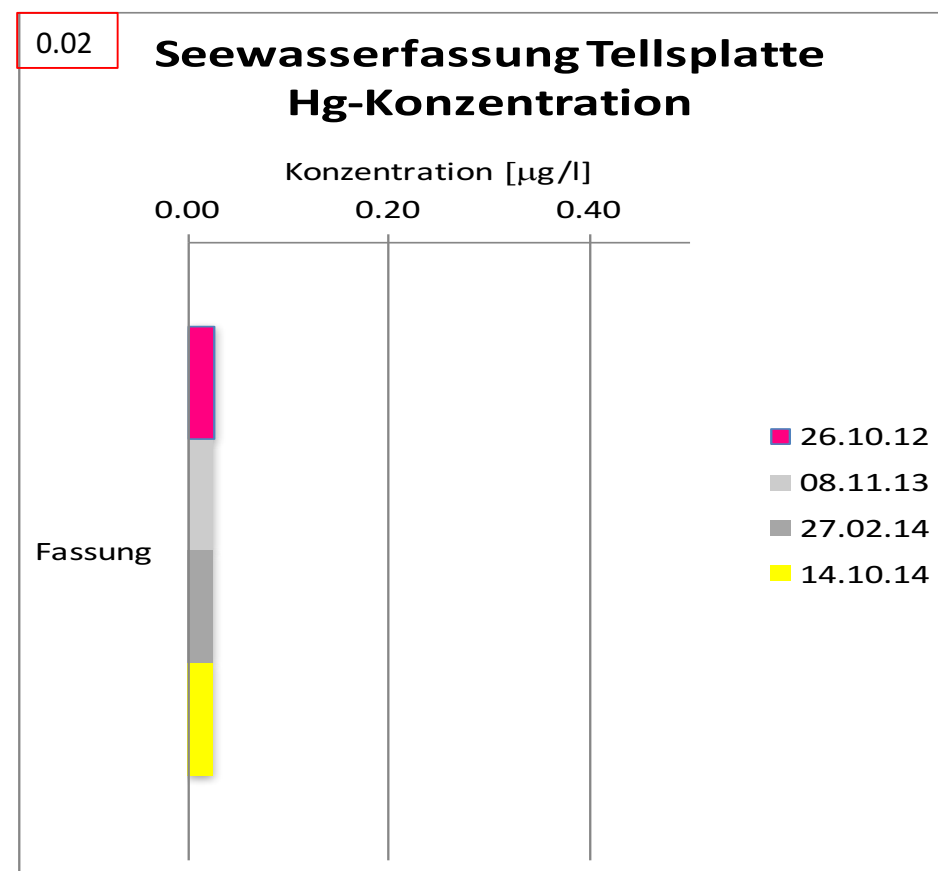
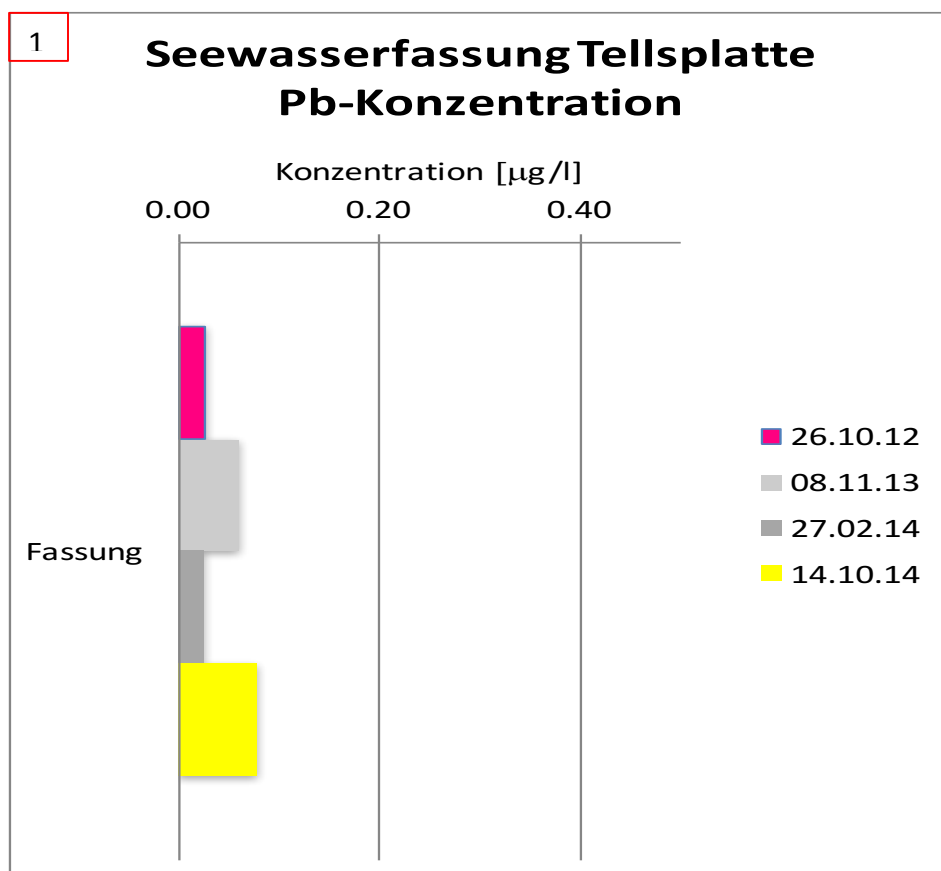
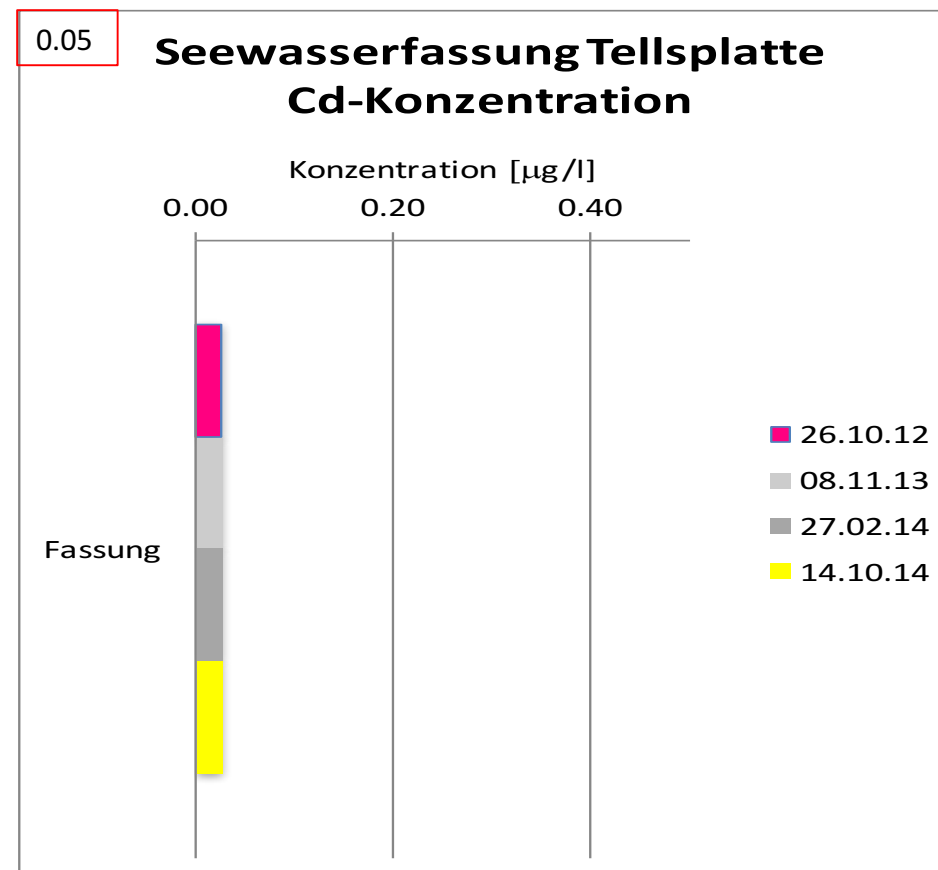
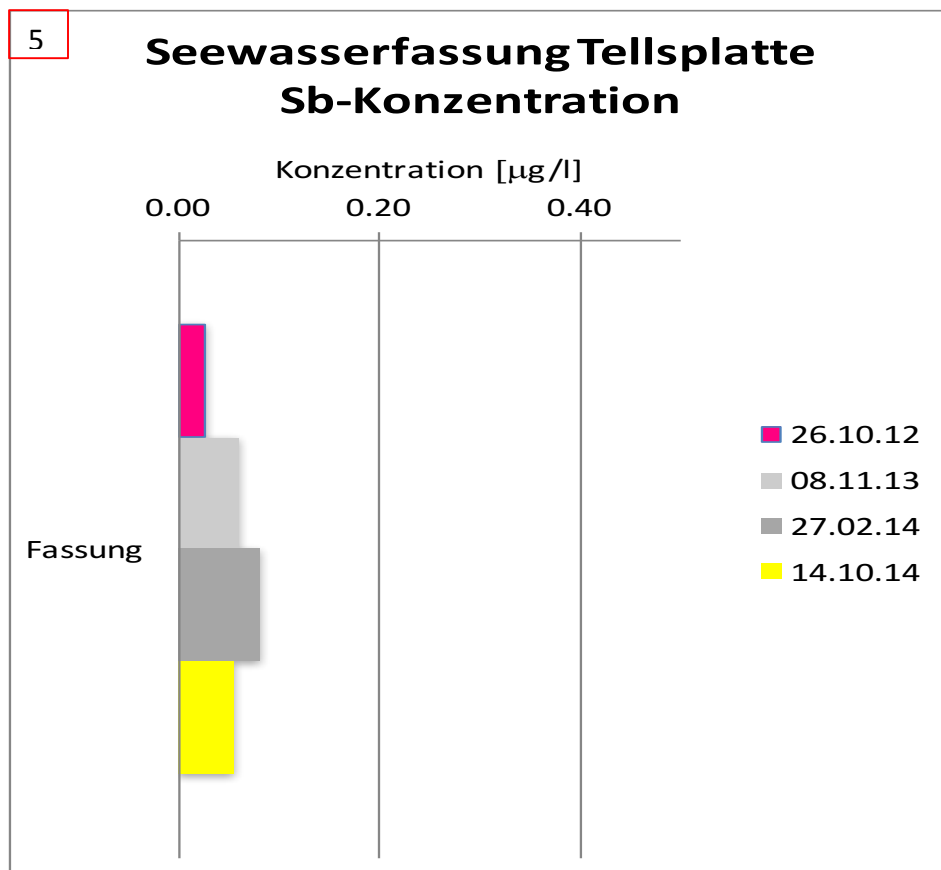


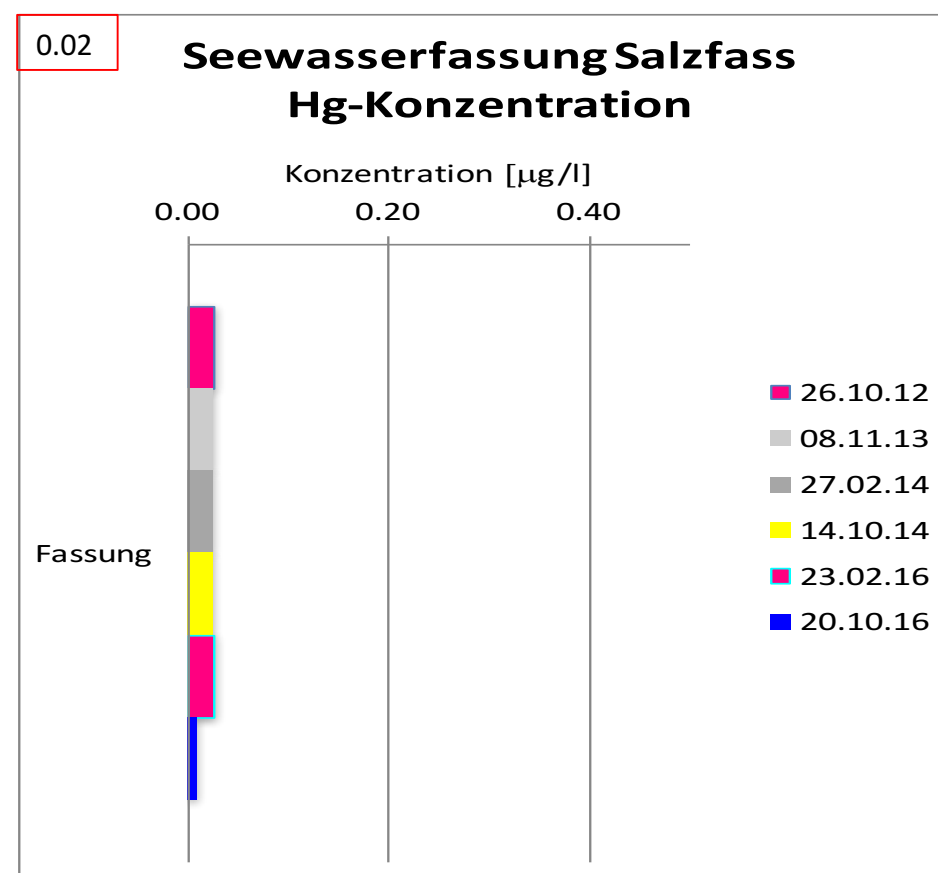
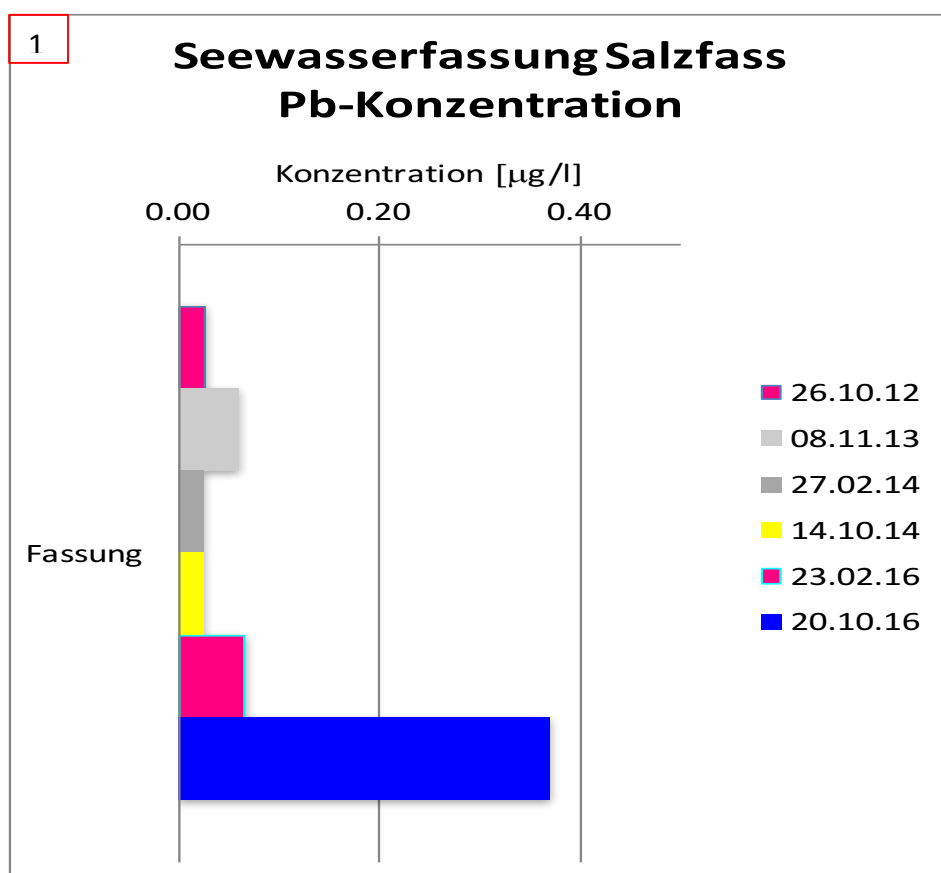
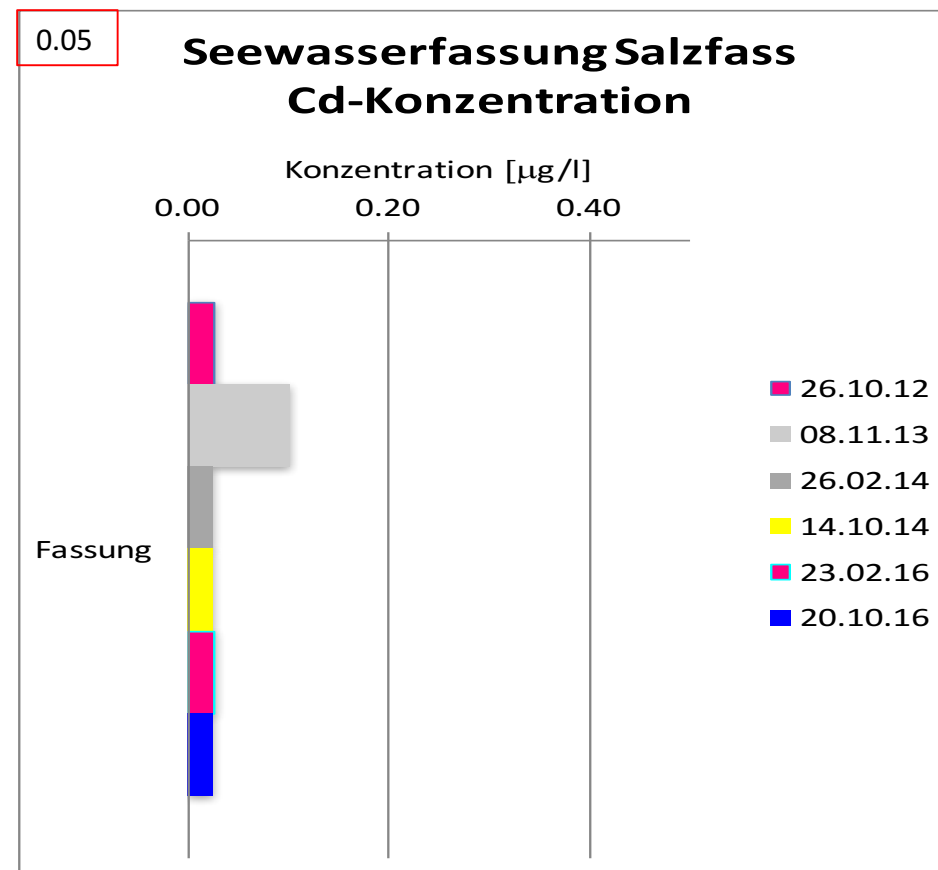
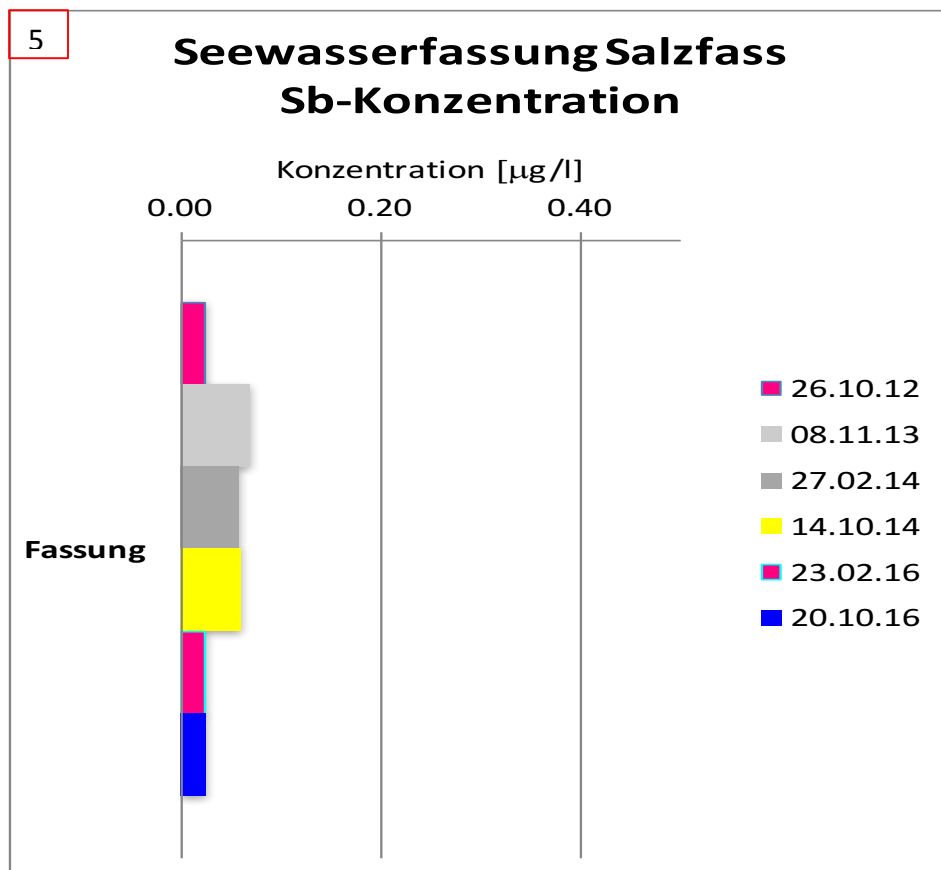


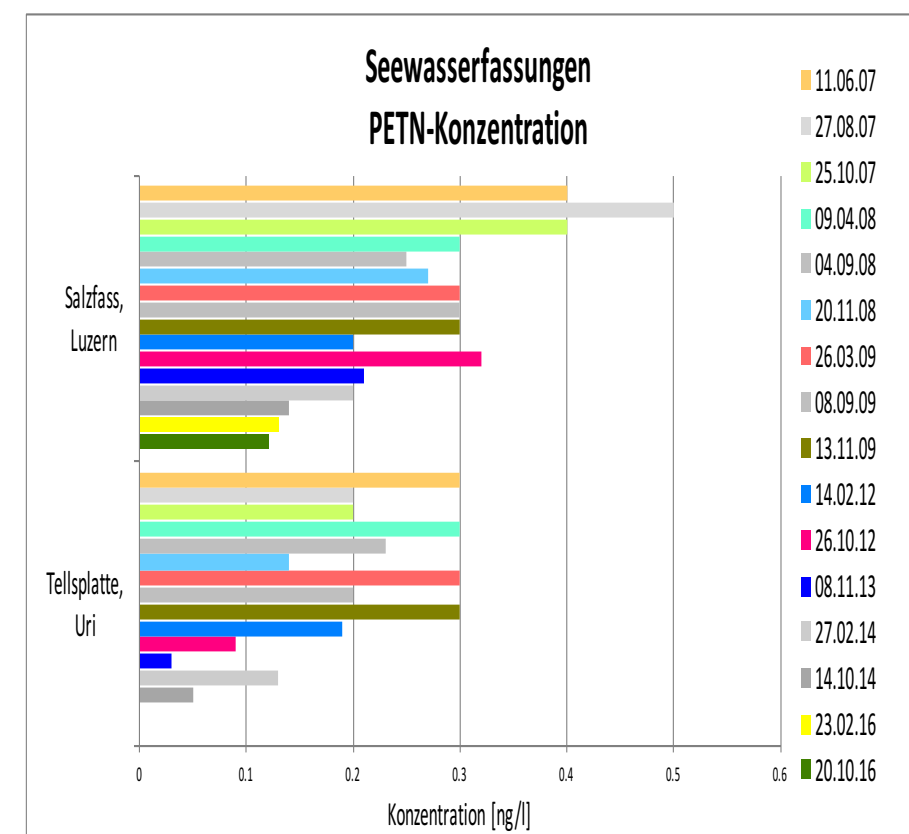
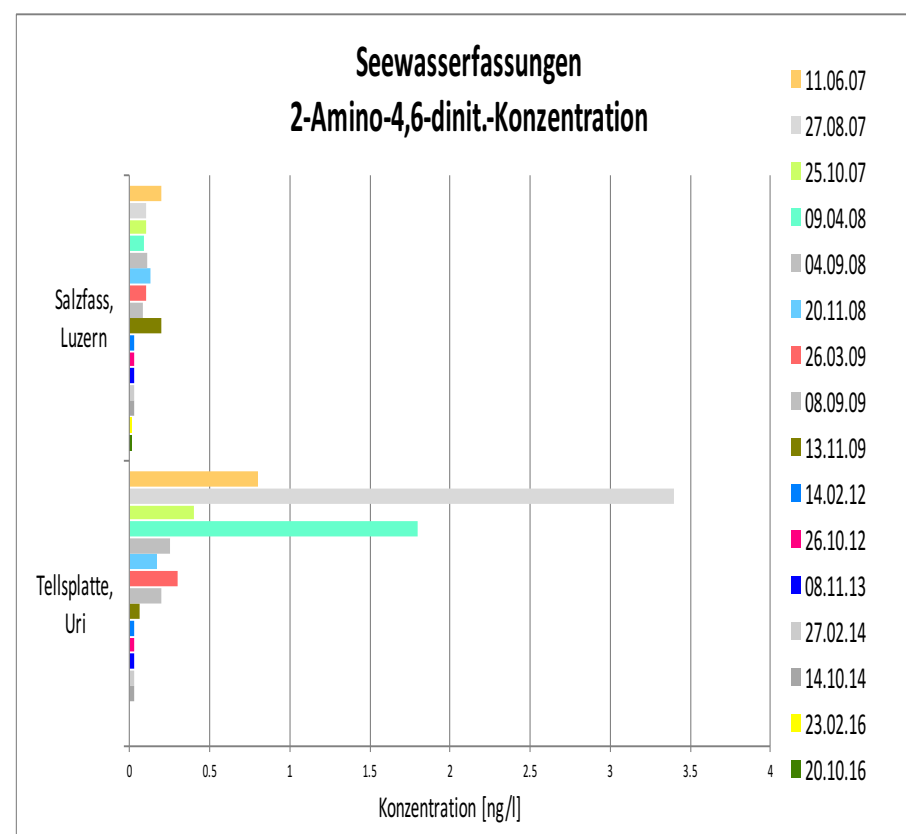
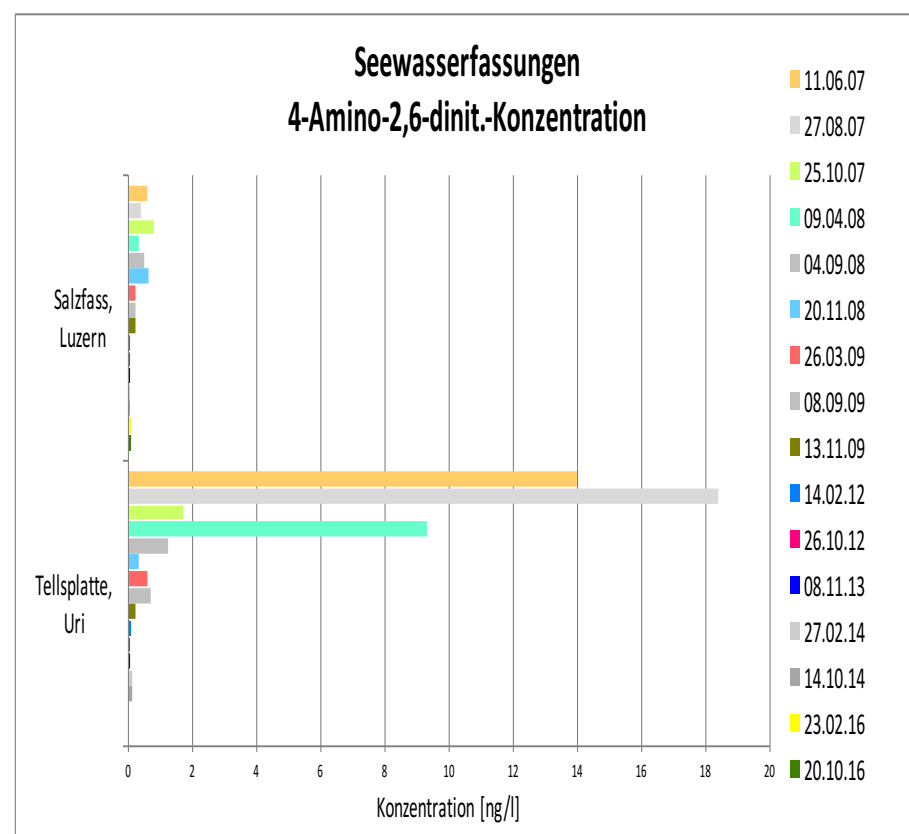
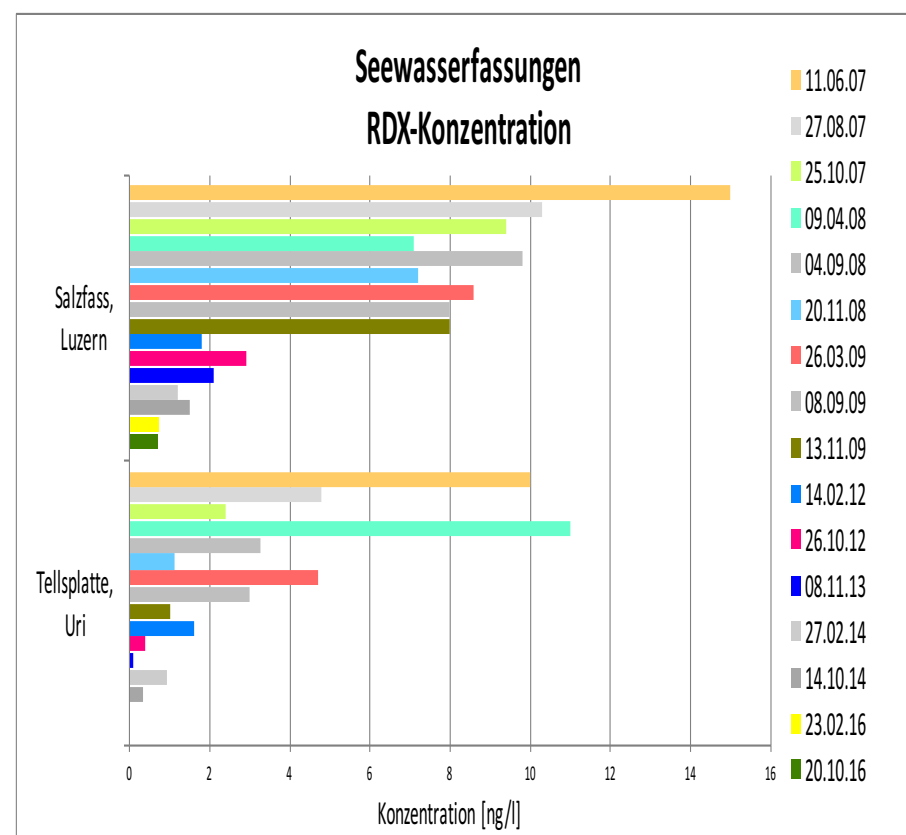
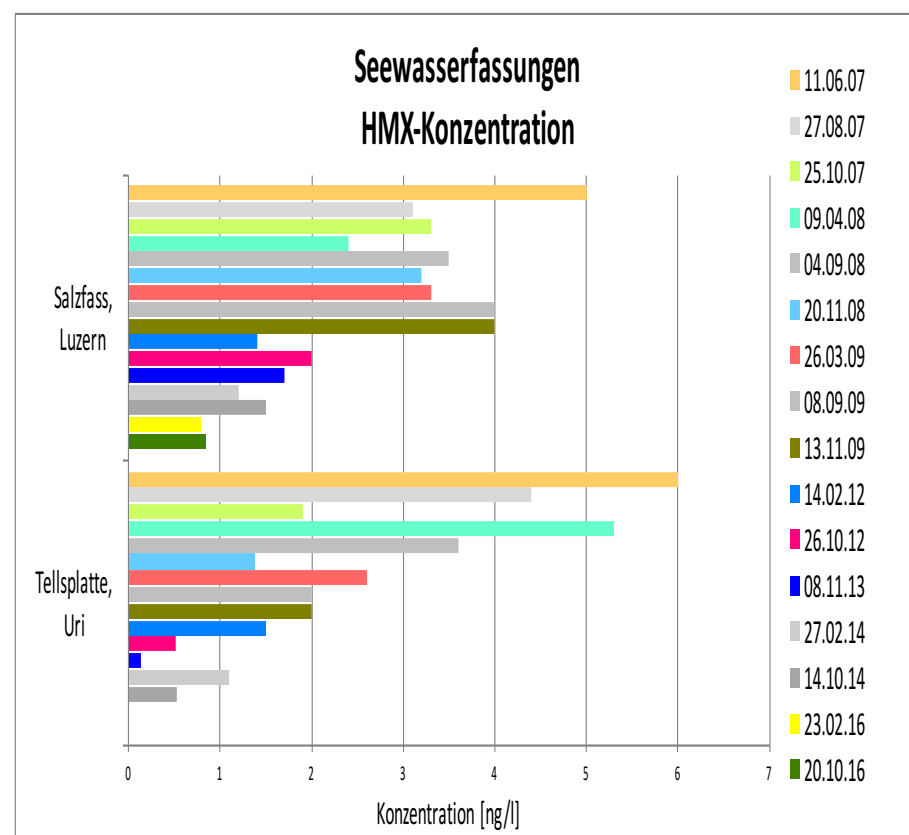












Zusammenstellung der Messwerte: Analyseprogramm 1

Probenahmeort	Datum Probenahme	Entnahmetiefe [m]	Cd [µg/l]	Sb [µg/l]	Pb [µg/l]	Hg [µg/l]	Perchlorat [mg/kg]
Brienzersee	11.02.11	0	<0.05	0.059	<0.05	<0.05	<0.01
Brienzersee	15.04.14	0	<0.05	0.058	<0.05	<0.05	<0.01
Brienzersee	13.10.14	0	<0.05	0.052	<0.05	<0.05	<0.01
Brienzersee	16.02.16	0	<0.05	0.052	<0.05	<0.05	<0.01
Brienzersee	20.10.16	0	<0.05	<0.05	0.18	<0.015	<0.01
Brienzersee	11.02.11	10	<0.05	0.057	<0.05	<0.05	<0.01
Brienzersee	15.04.14	10	<0.05	0.058	<0.05	<0.05	<0.01
Brienzersee	13.10.14	10	<0.05	<0.05	<0.05	<0.05	<0.01
Brienzersee	16.02.16	10	<0.05	<0.05	<0.05	<0.05	<0.01
Brienzersee	20.10.16	10	<0.05	<0.05	0.2	<0.015	<0.01
Brienzersee	11.02.11	20	<0.05	<0.05	<0.05	<0.05	<0.01
Brienzersee	15.04.14	20	<0.05	<0.05	<0.05	<0.05	<0.01
Brienzersee	13.10.14	20	<0.05	0.051	<0.05	<0.05	<0.01
Brienzersee	16.02.16	20	<0.05	<0.05	<0.05	<0.05	<0.01
Brienzersee	20.10.16	20	<0.05	<0.05	0.22	<0.015	<0.01
Brienzersee	11.02.11	100	<0.05	0.054	<0.05	<0.05	<0.01
Brienzersee	15.04.14	100	<0.05	0.056	<0.05	<0.05	<0.01
Brienzersee	13.10.14	100	<0.05	0.067	<0.05	<0.05	<0.01
Brienzersee	16.02.16	100	<0.05	0.054	<0.05	<0.05	<0.01
Brienzersee	20.10.16	100	<0.05	<0.05	0.07	<0.015	<0.01
Brienzersee	11.02.11	200	<0.05	0.058	<0.05	<0.05	<0.01
Brienzersee	15.04.14	200	<0.05	0.061	<0.05	<0.05	<0.01
Brienzersee	13.10.14	200	<0.05	0.061	<0.05	<0.05	<0.01
Brienzersee	16.02.16	200	<0.05	0.054	<0.05	<0.05	<0.01
Brienzersee	20.10.16	200	<0.05	<0.05	0.07	<0.015	<0.01
Brienzersee	11.02.11	Grund	<0.05	0.059	0.1	<0.05	<0.01
Brienzersee	15.04.14	Grund	<0.05	0.063	<0.05	<0.05	<0.01
Brienzersee	13.10.14	Grund	<0.05	0.063	<0.05	<0.05	<0.01
Brienzersee	16.02.16	Grund	<0.05	0.065	0.42	<0.05	<0.01
Brienzersee	20.10.16	Grund	<0.05	<0.05	0.26	<0.015	<0.01
Thunersee	11.02.11	0	<0.05	0.068	<0.05	<0.05	<0.01
Thunersee	15.04.14	0	<0.05	0.056	<0.05	<0.05	<0.01
Thunersee	13.10.14	0	<0.05	0.05	<0.05	<0.05	<0.01
Thunersee	16.02.16	0	<0.05	<0.05	<0.05	<0.05	<0.01
Thunersee	20.10.16	0	<0.05	<0.05	<0.05	0.0075	<0.01
Thunersee	11.02.11	10	<0.05	0.058	<0.05	<0.05	<0.01
Thunersee	15.04.14	10	<0.05	0.052	<0.05	<0.05	<0.01
Thunersee	13.10.14	10	<0.05	<0.05	<0.05	<0.05	<0.01
Thunersee	16.02.16	10	<0.05	<0.05	<0.05	<0.05	<0.01
Thunersee	20.10.16	10	<0.05	<0.05	<0.05	0.0075	<0.01
Thunersee	11.02.11	20	<0.05	0.063	<0.05	<0.05	<0.01
Thunersee	15.04.14	20	<0.05	0.054	<0.05	<0.05	<0.01
Thunersee	13.10.14	20	<0.05	<0.05	<0.05	<0.05	<0.01
Thunersee	16.02.16	20	<0.05	0.052	<0.05	<0.05	<0.01
Thunersee	20.10.16	20	<0.05	<0.05	<0.05	0.0075	<0.01
Thunersee	11.02.11	100	<0.05	0.059	<0.05	<0.05	<0.01
Thunersee	15.04.14	100	<0.05	0.055	<0.05	<0.05	<0.01
Thunersee	13.10.14	100	<0.05	0.054	<0.05	<0.05	<0.01
Thunersee	16.02.16	100	<0.05	0.053	<0.05	<0.05	<0.01
Thunersee	20.10.16	100	<0.05	<0.05	<0.05	0.0075	<0.01
Thunersee	11.02.11	Grund	<0.05	0.059	<0.05	<0.05	<0.01
Thunersee	15.04.14	Grund	<0.05	0.057	<0.05	<0.05	<0.01
Thunersee	13.10.14	Grund	<0.05	0.056	<0.05	<0.05	<0.01
Thunersee	16.02.16	Grund	<0.05	0.051	<0.05	<0.05	<0.01
Thunersee	20.10.16	Grund	<0.05	<0.05	<0.05	0.0075	<0.01
Beurteilungswert			0.05	5	1	0.02	24.5

Zusammenstellung der Messwerte: Analyseprogramm 1

Gewässer	Datum Probenahme	Entnahmetiefe [m]	Cd [µg/l]	Sb [µg/l]	Pb [µg/l]	Hg [µg/l]	Perchlorat [mg/l]
Urnersee	26.10.12	5	<0.05	<0.05	<0.05	<0.05	<0.01
Urnersee	25.02.14	5	<0.05	0.055	0.271	<0.05	<0.01
Urnersee	14.10.14	5	<0.05	0.053	<0.05	<0.05	<0.01
Urnersee	23.02.16	5	<0.05	0.053	<0.05	<0.05	<0.01
Urnersee	20.10.16	5	<0.05	<0.05	0.096	0.0075	<0.01
Urnersee	26.10.12	30	<0.05	<0.05	<0.05	<0.05	<0.01
Urnersee	25.02.14	30	<0.05	0.064	<0.05	<0.05	<0.01
Urnersee	14.10.14	30	<0.05	0.061	<0.05	<0.05	<0.01
Urnersee	23.02.16	30	<0.05	0.052	<0.05	<0.05	<0.01
Urnersee	20.10.16	30	<0.05	<0.05	0.1	0.0075	<0.01
Urnersee	26.10.12	100	<0.05	<0.05	0.09	<0.05	<0.01
Urnersee	25.02.14	100	<0.05	0.057	<0.05	<0.05	<0.01
Urnersee	14.10.14	100	<0.05	0.066	<0.05	0.052	<0.01
Urnersee	23.02.16	100	<0.05	0.054	0.138	<0.05	<0.01
Urnersee	20.10.16	100	<0.05	<0.05	0.082	0.0075	<0.01
Urnersee	26.10.12	Grund	<0.05	<0.05	0.05	<0.05	<0.01
Urnersee	25.02.14	Grund	<0.05	0.055	0.098	<0.05	<0.01
Urnersee	14.10.14	Grund	<0.05	0.056	<0.05	<0.05	<0.01
Urnersee	23.02.16	Grund	<0.05	<0.05	0.134	0.05	<0.01
Urnersee	20.10.16	Grund	<0.05	<0.05	0.053	0.0075	<0.01
Gersauerbecken	26.10.12	0	0	0	0	0	<0.01
Gersauerbecken	25.02.14	0	0	0	0	0	<0.01
Gersauerbecken	14.10.14	0	0	0	0	0	<0.01
Gersauerbecken	26.10.12	5	0	0	0	0	<0.01
Gersauerbecken	25.02.14	5	<0.05	0.055	0.135	<0.05	<0.01
Gersauerbecken	14.10.14	5	<0.05	0.05	<0.05	<0.05	<0.01
Gersauerbecken	23.02.16	5	<0.05	0.064	0.06	<0.05	<0.01
Gersauerbecken	20.10.16	5	<0.05	<0.05	0.067	0.0075	<0.01
Gersauerbecken	26.10.12	30	<0.05	<0.05	<0.05	<0.05	<0.01
Gersauerbecken	25.02.14	30	<0.05	0.058	0.215	<0.05	<0.01
Gersauerbecken	14.10.14	30	<0.05	0.055	<0.05	<0.05	<0.01
Gersauerbecken	23.02.16	30	<0.05	0.052	<0.05	<0.05	<0.01
Gersauerbecken	20.10.16	30	<0.05	<0.05	0.07	0.0075	<0.01
Gersauerbecken	26.10.12	100	<0.05	<0.05	<0.05	<0.05	<0.01
Gersauerbecken	25.02.14	100	<0.05	0.056	<0.05	<0.05	<0.01
Gersauerbecken	14.10.14	100	<0.05	0.063	<0.05	<0.05	<0.01
Gersauerbecken	23.02.16	100	<0.05	0.061	0.077	<0.05	<0.01
Gersauerbecken	20.10.16	100	<0.05	<0.05	0.15	0.0075	<0.01
Gersauerbecken	26.10.12	Grund	<0.05	<0.05	<0.05	<0.05	<0.01
Gersauerbecken	25.02.14	Grund	<0.05	0.05	<0.05	<0.05	<0.01
Gersauerbecken	14.10.14	Grund	<0.05	<0.05	<0.05	<0.05	<0.01
Gersauerbecken	23.02.16	Grund	<0.05	0.051	<0.05	<0.05	<0.01
Gersauerbecken	20.10.16	Grund	<0.05	<0.05	0.072	0.0075	<0.01
Tellsplatte	26.10.12	25	<0.05	<0.05	<0.05	<0.05	<0.01
Tellsplatte	08.11.13	25	<0.05	0.06	0.06	<0.05	<0.01
Tellsplatte	27.02.14	25	<0.05	0.08	<0.05	<0.05	<0.01
Tellsplatte	14.10.14	25	<0.05	0.055	0.078	<0.05	<0.01
Salzfass	26.10.12	40	<0.05	<0.05	<0.05	<0.05	<0.01
Salzfass	08.11.13	40	0.1	0.07	0.06	<0.05	<0.01
Salzfass	26.02.14	40	<0.05	0.057	<0.05	<0.05	<0.01
Salzfass	14.10.14	40	<0.05	0.061	<0.05	<0.05	<0.01
Salzfass	23.02.16	40	<0.05	<0.05	0.065	<0.05	<0.01
Salzfass	20.10.16	40	<0.05	<0.05	0.37	0.0075	<0.01
Beurteilungswert			0.05	5	1	0.02	24.5

Zusammenstellung der Messwerte: Analyseprogramm 2

Probenahmeort	Datum Probenahme	Entnahmetiefe [m]	2,4,6- Trinitrotoluol [ng/l]	2,4-Diamino-6- nitrotoluol [ng/l]	2,6-Diamino-4- nitrotoluol [ng/l]	Octogen (HMX) [ng/l]	Hexogen (RDX) [ng/l]	4-Amino-2,6- dinitrotoluol [ng/l]	2-Amino-4,6- dinitrotoluol [ng/l]	Nitropenta PETN [ng/l]
Brienzersee	13.02.07	0	<1	<1	<1	0.20	0.20	<0.03	<0.03	0.20
Brienzersee	12.06.07	0	<1	<1	<1	0.19	0.08	0.06	0.05	0.18
Brienzersee	19.02.08	0	<1	<1	<1	0.16	0.17	0.00	0.00	0.19
Brienzersee	14.10.08	0	<1	<1	<1	0.15	0.08	0.00	0.00	0.14
Brienzersee	17.02.09	0	<1	<1	<1	0.21	0.13	0.05	0.00	0.22
Brienzersee	10.11.09	0	<1	<1	<1	0.16	0.09	0.09	0.04	5.10
Brienzersee	23.02.10	0	<1	<1	<1	0.18	0.11	0.04	0.00	2.60
Brienzersee	19.10.10	0	<1	<1	<1	0.20	0.20	0.00	0.00	1.60
Brienzersee	21.02.12	0	<1	<1	<1	0.12	0.08	0.00	0.00	1.70
Brienzersee	16.10.12	0	<1	<1	<1	0.11	0.07	0.11	0.05	0.92
Brienzersee	18.02.14	0	<1	<1	<1	0.12	0.07	0.00	0.00	1.50
Brienzersee	14.10.14	0	<1	<1	<1	0.16	0.19	0.05	0.00	0.70
Brienzersee	16.02.16	0	<1	<1	<1	0.09	0.15	0.03	0.03	0.58
Brienzersee	11.10.16	0	<1	<1	<1	0.10	0.13	0.18	0.07	0.34
Brienzersee	10.10.06	10	<1	<1	<1	<0.03	0.20	<0.03	<0.03	0.30
Brienzersee	12.12.06	10	<1	<1	<1	<0.03	0.20	<0.03	<0.03	0.20
Brienzersee	13.02.07	10	<1	<1	<1	0.20	0.20	0.00	0.00	0.20
Brienzersee	12.06.07	10	<1	<1	<1	0.30	0.21	0.52	0.12	0.20
Brienzersee	19.02.08	10	<1	<1	<1	0.18	0.10	0.04	0.00	0.20
Brienzersee	14.10.08	10	<1	<1	<1	0.16	0.11	0.10	0.00	0.13
Brienzersee	17.02.09	10	<1	<1	<1	0.20	0.13	0.05	0.03	0.22
Brienzersee	10.11.09	10	<1	<1	<1	0.17	0.09	0.11	0.04	5.20
Brienzersee	23.02.10	10	<1	<1	<1	0.17	0.10	0.00	0.00	2.60
Brienzersee	19.10.10	10	<1	<1	<1	0.30	0.10	0.10	0.00	1.50
Brienzersee	21.02.12	10	<1	<1	<1	0.12	0.08	0.00	0.00	1.50
Brienzersee	16.10.12	10	<1	<1	<1	0.12	0.08	0.19	0.06	0.85
Brienzersee	18.02.14	10	<1	<1	<1	0.12	0.06	0.00	0.00	1.50
Brienzersee	14.10.14	10	<1	<1	<1	0.15	0.13	0.16	0.00	0.79
Brienzersee	16.02.16	10	<1	<1	<1	0.10	0.08	0.03	0.03	0.81
Brienzersee	11.10.16	10	<1	<1	<1	0.11	0.10	0.37	0.03	0.36
Brienzersee	10.10.06	20	<1	<1	<1	<0.03	0.20	<0.03	<0.03	0.30
Brienzersee	12.12.06	20	<1	<1	<1	<0.03	0.20	<0.03	<0.03	0.20
Brienzersee	13.02.07	20	<1	<1	<1	0.20	0.20	0.00	0.00	0.20
Brienzersee	12.06.07	20	<1	<1	<1	0.25	0.20	0.37	0.09	0.20
Brienzersee	19.02.08	20	<1	<1	<1	0.17	0.11	0.04	0.00	0.20
Brienzersee	14.10.08	20	<1	<1	<1	0.18	0.15	0.29	0.42	0.14
Brienzersee	17.02.09	20	<1	<1	<1	0.31	0.19	0.07	0.03	0.22
Brienzersee	23.02.10	20	<1	<1	<1	0.20	0.10	0.05	0.00	2.70
Brienzersee	19.10.10	20	<1	<1	<1	0.20	0.20	0.20	0.00	1.70
Brienzersee	21.02.12	20	<1	<1	<1	0.12	0.08	0.00	0.00	1.60
Brienzersee	16.10.12	20	<1	<1	<1	0.13	0.10	0.19	0.06	0.95
Brienzersee	18.02.14	20	<1	<1	<1	0.12	0.06	0.00	0.00	1.40
Brienzersee	14.10.14	20	<1	<1	<1	0.16	0.16	0.19	0.00	0.82
Brienzersee	16.02.16	20	<1	<1	<1	0.10	0.08	0.04	0.03	0.82
Brienzersee	11.10.16	20	<1	<1	<1	0.12	0.15	0.48	0.11	0.45
Brienzersee	10.10.06	100	<1	<1	<1	<0.03	0.20	<0.03	<0.03	0.30
Brienzersee	12.12.06	100	<1	<1	<1	<0.03	0.10	<0.03	<0.03	0.20
Brienzersee	13.02.07	100	<1	<1	<1	0.20	0.20	0.00	0.00	0.20
Brienzersee	12.06.07	100	<1	<1	<1	0.27	0.17	0.05	0.03	0.26
Brienzersee	19.02.08	100	<1	<1	<1	0.16	0.11	0.04	0.00	0.20
Brienzersee	14.10.08	100	<1	<1	<1	0.17	0.13	0.00	0.00	0.29
Brienzersee	17.02.09	100	<1	<1	<1	0.22	0.13	0.04	0.00	0.22
Brienzersee	23.02.10	100	<1	<1	<1	0.23	0.10	0.05	0.00	2.80
Brienzersee	19.10.10	100	<1	<1	<1	0.20	0.10	0.00	0.00	2.30
Brienzersee	21.02.12	100	<1	<1	<1	0.13	0.08	0.00	0.00	1.60
Brienzersee	16.10.12	100	<1	<1	<1	0.10	0.06	0.00	0.00	1.50
Brienzersee	18.02.14	100	<1	<1	<1	0.11	0.06	0.00	0.00	1.40
Brienzersee	14.10.14	100	<1	<1	<1	0.11	0.07	0.00	0.00	1.10
Brienzersee	16.02.16	100	<1	<1	<1	0.10	0.08	0.05	<0.03	1.10
Brienzersee	11.10.16	100	<1	<1	<1	0.09	0.05	<0.03	<0.03	0.74
Brienzersee	10.10.06	200	<1	<1	<1	<0.03	0.20	<0.03	<0.03	0.30
Brienzersee	12.12.06	200	<1	<1	<1	<0.03	0.20	<0.03	<0.03	0.20
Brienzersee	13.02.07	200	<1	<1	<1	0.30	0.20	0.00	0.00	0.20
Brienzersee	12.06.07	200	<1	<1	<1	0.29	0.17	0.05	<0.03	0.25
Brienzersee	19.02.08	200	<1	<1	<1	0.17	0.11	0.08	0.00	0.20
Brienzersee	14.10.08	200	<1	<1	<1	0.16	0.12	0.00	0.00	0.20
Brienzersee	17.02.09	200	<1	<1	<1	0.23	0.13	0.05	0.00	0.23
Brienzersee	23.02.10	200	<1	<1	<1	0.22	0.11	0.05	0.00	2.70
Brienzersee	19.10.10	200	<1	<1	<1	0.20	0.10	0.00	0.00	2.50
Brienzersee	21.02.12	200	<1	<1	<1	0.13	0.09	0.00	0.01	1.70
Brienzersee	16.10.12	200	<1	<1	<1	0.10	0.07	0.00	0.00	1.60
Brienzersee	18.02.14	200	<1	<1	<1	0.10	0.06	0.00	0.00	1.40
Brienzersee	14.10.14	200	<1	<1	<1	0.12	0.07	0.03	0.00	1.20
Brienzersee	16.02.16	200	<1	<1	<1	0.10	0.08	0.05	<0.03	1.10
Brienzersee	11.10.16	200	<1	<1	<1	0.11	0.06	0.04	<0.03	0.79
Brienzersee	10.10.06	Grund	<1	<1	<1	<0.03	0.20	<0.03	<0.03	0.30
Brienzersee	12.12.06	Grund	<1	<1	<1	<0.03	0.20	<0.03	<0.03	0.20
Brienzersee	13.02.07	Grund	<1	<1	<1	0.20	0.20	0.00	0.00	0.20
Brienzersee	12.06.07	Grund	<1	<1	<1	0.28	0.18	0.05	<0.03	0.24
Brienzersee	19.02.08	Grund	<1	<1	<1	0.17	0.11	0.00	0.00	0.19
Brienzersee	14.10.08	Grund	<1	<1	<1	0.17	0.12	0.00	0.00	0.20
Brienzersee	17.02.09	Grund	<1	<1	<1	0.20	0.13	0.04	0.00	0.21
Brienzersee	10.11.09	Grund	<1	<1	<1	0.21	0.12	0.06	0.00	2.10
Brienzersee	23.02.10	Grund	<1	<1	<1	0.18	0.11	0.00	0.00	2.60
Brienzersee	19.10.10	Grund	<1	<1	<1	0.20	0.10	0.00	0.00	2.80
Brienzersee	21.02.12	Grund	<1	<1	<1	0.13	0.09	0.00	0.00	1.60
Brienzersee	16.10.12	Grund	<1	<1	<1	0.09	0.05	0.01	0.00	1.20
Brienzersee	18.02.14	Grund	<1	<1	<1	0.10	0.05	0.00	0.00	1.30
Brienzersee	14.10.14	Grund	<1	<1	<1	0.12	0.07	0.00	0.00	1.20
Brienzersee	16.02.16	Grund	<1	<1	<1	0.10	0.07	0.04	<0.03	1.00
Brienzersee	11.10.16	Grund	<1	<1	<1	0.07	0.06	<0.03	<0.03	0.72
Beurteilungswert			200	200	200	175'000	1'000	200	200	10'000

Zusammenstellung der Messwerte: Analyseprogramm 2

Probenahmeort	Datum Probenahme	Entnahmetiefe [m]	2,4,6- Trinitrotoluol [ng/l]	2,4-Diamino-6- nitrotoluol [ng/l]	2,6-Diamino-4- nitrotoluol [ng/l]	Octogen (HMX) [ng/l]	Hexogen (RDX) [ng/l]	4-Amino-2,6- dinitrotoluol [ng/l]	2-Amino-4,6- dinitrotoluol [ng/l]	Nitropenta PETN [ng/l]
Thunersee	11.06.07	0	<1	<1	<1	0.22	0.62	<0.03	<0.03	0.15
Thunersee	12.02.07	0	<1	<1	<1	0.2	0.3	NN	NN	0.2
Thunersee	18.02.08	0	<1	<1	<1	0.16	0.2	0.03	0	0.12
Thunersee	13.10.08	0	<1	<1	<1	0.12	0.12	0	0	0.1
Thunersee	16.02.09	0	<1	<1	<1	0.2	0.23	0	0	0.14
Thunersee	09.11.09	0	<1	<1	<1	0.14	0.13	0.03	0	2.1
Thunersee	22.02.10	0	<1	<1	<1	0.2	0.2	0.05	0	0.67
Thunersee	18.10.10	0	<1	<1	<1	0.1	0.2	0	0	0.8
Thunersee	21.02.12	0	<1	<1	<1	0.14	0.15	0	0	0.18
Thunersee	15.10.12	0	<1	<1	<1	0.07	0.09	0.01	0	0.47
Thunersee	17.02.14	0	<1	<1	<1	0.11	0.12	0	0	0.38
Thunersee	13.10.14	0	<1	<1	<1	0.11	0.12	0	0	0.47
Thunersee	15.02.16	0	<1	<1	<1	0.07	0.18	<0.03	<0.03	0.17
Thunersee	10.10.16	0	<1	<1	<1	0.08	0.15	<0.03	<0.03	0.23
Thunersee	12.02.07	10	<1	<1	<1	0.2	0.2	0	0	0.2
Thunersee	11.06.07	10	<1	<1	<1	0.23	0.81	0	0	0.15
Thunersee	18.02.08	10	<1	<1	<1	0.2	0.32	0.11	0.07	0.14
Thunersee	13.10.08	10	<1	<1	<1	0.12	0.1	0	0	0.1
Thunersee	16.02.09	10	<1	<1	<1	0.19	0.22	0	0	0.11
Thunersee	09.11.09	10	<1	<1	<1	0.13	0.2	0	0	2.1
Thunersee	22.02.10	10	<1	<1	<1	0.19	0.19	0	0	0.63
Thunersee	18.10.10	10	<1	<1	<1	0.1	0.2	0	0	0.8
Thunersee	21.02.12	10	<1	<1	<1	0.14	0.16	0	0	0.19
Thunersee	15.10.12	10	<1	<1	<1	0	0.02	0	0	0.08
Thunersee	17.02.14	10	<1	<1	<1	0.11	0.13	0	0	0.33
Thunersee	13.10.14	10	<1	<1	<1	0.12	0.14	0	0	0.61
Thunersee	17.02.16	10	<1	<1	<1	0.08	0.14	<0.03	<0.03	0.19
Thunersee	10.10.16	10	<1	<1	<1	0.08	0.1	<0.03	<0.03	0.26
Thunersee	12.02.07	20	<1	<1	<1	0.2	0.3	NN	NN	0.2
Thunersee	11.06.07	20	<1	<1	<1	0.25	0.55	<0.03	<0.03	0.16
Thunersee	18.02.08	20	<1	<1	<1	0.59	0.27	0.2	0.05	0.15
Thunersee	13.10.08	20	<1	<1	<1	0.14	0.19	0	0	0.09
Thunersee	16.02.09	20	<1	<1	<1	0.19	0.24	0	0	0.12
Thunersee	22.02.10	20	<1	<1	<1	0.19	0.19	0	0	0.63
Thunersee	18.10.10	20	<1	<1	<1	0.2	0.3	0.1	0	0.9
Thunersee	21.02.12	20	<1	<1	<1	0.15	0.18	0	0	0.19
Thunersee	15.10.12	20	<1	<1	<1	0.07	0.12	0	0	0.42
Thunersee	17.02.14	20	<1	<1	<1	0.1	0.12	0	0	0.32
Thunersee	13.10.14	20	<1	<1	<1	0.12	0.25	0.043	0	0.36
Thunersee	15.02.16	20	<1	<1	<1	0.07	0.12	<0.03	<0.03	0.17
Thunersee	10.10.16	20	<1	<1	<1	0.09	0.16	0.06	<0.03	0.21
Thunersee	12.02.07	100	<1	<1	<1	0.3	0.3	0	0	0.2
Thunersee	11.06.07	100	<1	<1	<1	0.28	0.33	<0.03	<0.03	0.2
Thunersee	18.02.08	100	<1	<1	<1	0.19	0.2	0.04	0	0.14
Thunersee	13.10.08	100	<1	<1	<1	0.21	0.35	0.31	0.39	0.13
Thunersee	16.02.09	100	<1	<1	<1	0.21	0.27	0	0	0.05
Thunersee	22.02.10	100	<1	<1	<1	0.2	0.23	0	0	0.11
Thunersee	18.10.10	100	<1	<1	<1	0.2	0.2	0	0	0.2
Thunersee	21.02.12	100	<1	<1	<1	0.14	0.15	0	0	0.12
Thunersee	15.10.12	100	<1	<1	<1	0.12	0.14	0	0	0.09
Thunersee	17.02.14	100	<1	<1	<1	0.12	0.12	0	0	0.033
Thunersee	13.10.14	100	<1	<1	<1	0.18	0.24	0	0	0.046
Thunersee	15.02.16	100	<1	<1	<1	0.1	0.11	<0.03	<0.03	<0.03
Thunersee	10.10.16	100	<1	<1	<1	0.09	0.08	<0.03	<0.03	<0.03
Thunersee	12.02.07	Grund	<1	<1	<1	0.2	0.3	0	0	0.2
Thunersee	11.06.07	Grund	<1	<1	<1	0.3	0.34	0	0	0.22
Thunersee	18.02.08	Grund	<1	<1	<1	0.19	0.24	0.05	0	0.16
Thunersee	13.10.08	Grund	<1	<1	<1	0.19	0.26	0	0	0.09
Thunersee	16.02.09	Grund	<1	<1	<1	0.21	0.26	0	0	0.03
Thunersee	09.11.09	Grund	<1	<1	<1	0.19	0.2	0	0	0.05
Thunersee	22.02.10	Grund	<1	<1	<1	0.21	0.21	0	0	0.37
Thunersee	18.10.10	Grund	<1	<1	<1	0.2	0.2	0	0	0.2
Thunersee	21.02.12	Grund	<1	<1	<1	0.16	0.18	0	0	0.15
Thunersee	15.10.12	Grund	<1	<1	<1	0.13	0.13	0	0	0.08
Thunersee	17.02.14	Grund	<1	<1	<1	0.11	0.14	0	0	0.032
Thunersee	13.10.14	Grund	<1	<1	<1	0.24	0.3	0	0	0.034
Thunersee	15.02.16	Grund	<1	<1	<1	0.09	0.06	<0.03	<0.03	<0.03
Thunersee	10.10.16	Grund	<1	<1	<1	0.08	0.05	<0.03	<0.03	<0.03
Beurteilungswert			200	200	200	175'000	1'000	200	200	10'000

Zusammenstellung der Messwerte: Analyseprogramm 2

Probenahmeort	Datum Probenahme	Entnahmetiefe [m]	2,4,6- Trinitrotoluol [ng/l]	2,4-Diamino-6- nitrotoluol [ng/l]	2,6-Diamino-4- nitrotoluol [ng/l]	Octogen (HMX) [ng/l]	Hexogen (RDX) [ng/l]	4-Amino-2,6- dinitrotoluol [ng/l]	2-Amino-4,6- dinitrotoluol [ng/l]	Nitropenta PETN [ng/l]
Urnersee	24.10.07	0	<1	<1	<1	1.500	1.800	0.700	0.100	0.200
Urnersee	24.10.07	5	<1	<1	<1	1.500	1.900	0.800	0.100	0.200
Urnersee	12.11.09	5	<1	<1	<1	2.000	3.000	0.100	0.060	0.400
Urnersee	26.10.12	5	<1	<1	<1	0.600	0.630	<0.03	<0.03	0.100
Urnersee	25.02.14	5	<1	<1	<1	0.820	1.700	0.080	<0.03	0.220
Urnersee	14.10.14	5	<1	<1	<1	0.470	0.350	0.045	<0.03	0.068
Urnersee	23.02.16	5	<1	<1	<1	0.900	0.860	<0.03	<0.03	0.210
Urnersee	20.10.16	5	<1	<1	<1	0.260	0.160	<0.03	<0.03	0.150
Urnersee	24.10.07	30	<1	<1	<1	3.000	6.100	5.000	1.000	0.300
Urnersee	12.11.09	30	<1	<1	<1	4.000	10.000	0.800	0.200	0.300
Urnersee	26.10.12	30	<1	<1	<1	1.600	2.200	0.090	<0.03	0.200
Urnersee	25.02.14	30	<1	<1	<1	0.760	1.800	0.120	<0.03	0.210
Urnersee	14.10.14	30	<1	<1	<1	1.400	1.600	0.230	<0.03	0.170
Urnersee	23.02.16	30	<1	<1	<1	0.950	0.980	<0.03	0.300	0.170
Urnersee	20.10.16	30	<1	<1	<1	0.760	0.760	0.080	0.030	0.180
Urnersee	24.10.07	100	<1	<1	<1	4.000	11.700	2.400	0.500	0.500
Urnersee	12.11.09	100	<1	<1	<1	4.000	11.000	0.500	0.200	0.200
Urnersee	26.10.12	100	<1	<1	<1	2.300	3.600	0.080	<0.03	0.300
Urnersee	25.02.14	100	<1	<1	<1	0.990	1.800	0.140	<0.03	0.210
Urnersee	14.10.14	100	<1	<1	<1	1.400	1.600	0.076	<0.03	0.140
Urnersee	23.02.16	100	<1	<1	<1	1.100	1.100	<0.03	0.050	0.090
Urnersee	20.10.16	100	<1	<1	<1	0.900	0.810	<0.03	0.040	0.110
Urnersee	24.10.07	Grund	<1	<1	<1	4.100	12.700	2.000	0.400	0.500
Urnersee	12.11.09	Grund	<1	<1	<1	0.000	0.000	0.000	0.000	0.000
Urnersee	26.10.12	Grund	<1	<1	<1	2.100	3.200	0.070	<0.03	0.300
Urnersee	25.02.14	Grund	<1	<1	<1	1.200	2.200	0.160	<0.03	0.270
Urnersee	14.10.14	Grund	<1	<1	<1	1.600	1.900	0.100	<0.03	0.160
Urnersee	23.02.16	Grund	<1	<1	<1	0.920	0.910	<0.03	<0.03	0.210
Urnersee	20.10.16	Grund	<1	<1	<1	0.880	0.820	0.050	0.04	0.140
Beurteilungswert			200	200	200	175'000	1'000	200	200	10'000

Zusammenstellung der Messwerte: Analyseprogramm 2

Probenahmeort	Datum Probenahme	Entnahmetiefe [m]	2,4,6-Trinitrotoluol [ng/l]	2,4-Diamino-6-nitrotoluol [ng/l]	2,6-Diamino-4-nitrotoluol [ng/l]	Octogen (HMX) [ng/l]	Hexogen (RDX) [ng/l]	4-Amino-2,6-dinitrotoluol [ng/l]	2-Amino-4,6-dinitrotoluol [ng/l]	Nitropenta PETN [ng/l]
Gersauerbecken	24.10.07	0	<1	<1	<1	1.40	2.00	0.90	0.20	0.20
Gersauerbecken	24.10.07	5	<1	<1	<1	1.50	2.10	0.90	0.20	0.20
Gersauerbecken	12.11.09	5	<1	<1	<1	2.00	3.00	0.10	<0.03	0.40
Gersauerbecken	26.10.12	5	<1	<1	<1	0.63	0.63	0.04	<0.03	0.15
Gersauerbecken	25.02.14	5	<1	<1	<1	1.10	1.20	<0.03	<0.03	0.16
Gersauerbecken	14.10.14	5	<1	<1	<1	0.43	0.30	<0.03	<0.03	0.08
Gersauerbecken	23.02.16	5	<1	<1	<1	0.86	0.82	<0.03	<0.03	0.21
Gersauerbecken	20.10.16	5	<1	<1	<1	0.270	0.160	<0.03	<0.03	0.130
Gersauerbecken	24.10.07	25	<1	<1	<1	2.70	6.70	1.50	0.30	0.30
Gersauerbecken	12.11.09	25	<1	<1	<1	4.00	8.00	0.50	0.10	0.30
Gersauerbecken	26.10.12	25	<1	<1	<1	1.60	2.20	0.08	<0.03	0.20
Gersauerbecken	25.02.14	25	<1	<1	<1	1.10	1.50	<0.03	<0.03	0.20
Gersauerbecken	14.10.14	25	<1	<1	<1	1.10	1.10	0.10	0.00	0.13
Gersauerbecken	23.02.16	30	<1	<1	<1	1.20	1.20	<0.03	<0.03	<0.03
Gersauerbecken	20.10.16	25	<1	<1	<1	0.66	0.53	<0.03	<0.03	0.17
Gersauerbecken	24.10.07	100	<1	<1	<1	3.10	10.50	0.80	0.20	0.30
Gersauerbecken	12.11.09	100	<1	<1	<1	5.00	10.00	0.30	0.20	0.20
Gersauerbecken	26.10.12	100	<1	<1	<1	2.10	3.30	0.05	<0.03	0.30
Gersauerbecken	25.02.14	100	<1	<1	<1	1.70	2.10	<0.03	<0.03	0.18
Gersauerbecken	14.10.14	100	<1	<1	<1	1.80	1.90	<0.03	<0.03	0.11
Gersauerbecken	23.02.16	100	<1	<1	<1	1.70	1.30	<0.03	0.30	<0.03
Gersauerbecken	20.10.16	100	<1	<1	<1	0.91	0.80	<0.03	<0.03	0.04
Gersauerbecken	24.10.07	Grund	<1	<1	<1	3.00	11.30	0.50	0.20	0.20
Gersauerbecken	12.11.09	Grund	<1	<1	<1	NA	NA	NA	NA	NA
Gersauerbecken	26.10.12	Grund	<1	<1	<1	2.00	2.90	0.04	<0.03	0.20
Gersauerbecken	25.02.14	Grund	<1	<1	<1	1.60	2.10	<0.03	<0.03	0.12
Gersauerbecken	14.10.14	Grund	<1	<1	<1	2.00	2.10	<0.03	<0.03	<0.032
Gersauerbecken	23.02.16	Grund	<1	<1	<1	0.96	0.84	<0.03	<0.03	0.21
Gersauerbecken	20.10.16	Grund	<1	<1	<1	1.10	0.90	<0.03	<0.03	<0.03
Beurteilungswert			200	200	200	175'000	1'000	200	200	10'000

NA= nicht analysiert

Zusammenstellung der Messwerte: Analyseprogramm 2

Probenahmeort	Datum Probenahme	Entnahmetiefe [m]	2,4,6- Trinitrotoluol [ng/l]	2,4-Diamino-6- nitrotoluol [ng/l]	2,6-Diamino-4- nitrotoluol [ng/l]	Octogen (HMX) [ng/l]	Hexogen (RDX) [ng/l]	4-Amino-2,6- dinitrotoluol [ng/l]	2-Amino-4,6- dinitrotoluol [ng/l]	Nitropenta PETN [ng/l]
Tellsplatte	11.06.07	25	<1	<1	<1	6.00	10.00	14.00	0.80	0.30
Tellsplatte	27.08.07	25	<1	<1	<1	4.40	4.80	18.40	3.40	0.20
Tellsplatte	25.10.07	25	<1	<1	<1	1.90	2.40	1.70	0.40	0.20
Tellsplatte	09.04.08	25	<1	<1	<1	5.30	11.00	9.30	1.80	0.30
Tellsplatte	04.09.08	25	<1	<1	<1	3.60	3.27	1.24	0.25	0.23
Tellsplatte	20.11.08	25	<1	<1	<1	1.38	1.13	0.33	0.17	0.14
Tellsplatte	26.03.09	25	<1	<1	<1	2.60	4.70	0.60	0.30	0.30
Tellsplatte	08.09.09	25	<1	<1	<1	2.00	3.00	0.70	0.20	0.20
Tellsplatte	13.11.09	25	<1	<1	<1	2.00	1.00	0.20	0.06	0.30
Tellsplatte	14.02.12	25	<1	<1	<1	1.50	1.60	0.07	<0.03	0.19
Tellsplatte	26.10.12	25	<1	<1	<1	0.52	0.40	0.06	<0.03	0.09
Tellsplatte	08.11.13	25	<1	<1	<1	0.14	0.10	<0.03	<0.03	<0.03
Tellsplatte	27.02.14	25	<1	<1	<1	1.10	0.92	0.12	<0.03	0.13
Tellsplatte	14.10.14	25	<1	<1	<1	0.53	0.34	0.12	<0.03	0.05
Salzfass	11.06.07	40	<1	<1	<1	5.00	15.00	0.60	0.20	0.40
Salzfass	27.08.07	40	<1	<1	<1	3.10	10.30	0.40	0.10	0.50
Salzfass	25.10.07	40	<1	<1	<1	3.30	9.40	0.80	0.10	0.40
Salzfass	09.04.08	40	<1	<1	<1	2.40	7.10	0.30	0.09	0.30
Salzfass	04.09.08	40	<1	<1	<1	3.50	9.80	0.49	0.11	0.25
Salzfass	20.11.08	40	<1	<1	<1	3.20	7.20	0.61	0.13	0.27
Salzfass	26.03.09	40	<1	<1	<1	3.30	8.60	0.20	0.10	0.30
Salzfass	08.09.09	40	<1	<1	<1	4.00	8.00	0.20	0.08	0.30
Salzfass	13.11.09	40	<1	<1	<1	4.00	8.00	0.20	0.20	0.30
Salzfass	14.02.12	40	<1	<1	<1	1.40	1.80	<0.03	<0.03	0.20
Salzfass	26.10.12	40	<1	<1	<1	2.00	2.90	0.05	<0.03	0.32
Salzfass	08.11.13	40	<1	<1	<1	1.70	2.10	<0.03	<0.03	0.21
Salzfass	26.02.14	40	<1	<1	<1	1.20	1.20	<0.03	<0.03	0.20
Salzfass	14.10.14	40	<1	<1	<1	1.50	1.50	<0.03	<0.03	0.14
Salzfass	23.02.16	40	<1	<1	<1	0.79	0.71	<0.03	<0.03	0.13
Salzfass	20.10.16	40	<1	<1	<1	0.83	0.68	<0.03	<0.03	0.12
Beurteilungswert			200	200	200	175'000	1'000	200	200	10'000

Zusammenstellung der Messwerte: Analyseprogramm 3

Probenahmeort	Datum Probenahme	Entnahmetiefe [m]	1,3-Dinitrobenzol [ug/l]	2,4-Dinitrotoluol [ug/l]	2,6-Dinitrotoluol [ug/l]	Diphenylamin [ug/l]
Brienzersee	21.02.12	0	<0.005	<0.005	<0.005	<0.005
Brienzersee	16.10.12	0	<0.005	<0.005	<0.005	<0.005
Brienzersee	18.02.14	0	<0.005	<0.005	<0.005	<0.005
Brienzersee	14.10.14	0	<0.005	<0.005	<0.005	<0.005
Brienzersee	16.02.16	0	<0.005	<0.005	<0.005	<0.005
Brienzersee	11.10.16	0	<0.005	<0.005	<0.005	<0.005
Brienzersee	21.02.12	10	<0.005	<0.005	<0.005	<0.005
Brienzersee	16.10.12	10	<0.005	<0.005	<0.005	<0.005
Brienzersee	18.02.14	10	<0.005	<0.005	<0.005	<0.005
Brienzersee	14.10.14	10	<0.005	<0.005	<0.005	<0.005
Brienzersee	16.02.16	10	<0.005	<0.005	<0.005	<0.005
Brienzersee	11.10.16	10	<0.005	<0.005	<0.005	<0.005
Brienzersee	21.02.12	20	<0.005	<0.005	<0.005	<0.005
Brienzersee	16.10.12	20	<0.005	<0.005	<0.005	<0.005
Brienzersee	18.02.14	20	<0.005	<0.005	<0.005	<0.005
Brienzersee	14.10.14	20	<0.005	<0.005	<0.005	<0.005
Brienzersee	16.02.16	20	<0.005	<0.005	<0.005	<0.005
Brienzersee	11.10.16	20	<0.005	<0.005	<0.005	<0.005
Brienzersee	10.10.06	100	<0.005	<0.005	<0.005	<0.005
Brienzersee	12.12.06	100	<0.005	<0.005	<0.005	<0.005
Brienzersee	21.02.12	100	<0.005	<0.005	<0.005	<0.005
Brienzersee	16.10.12	100	<0.005	<0.005	<0.005	<0.005
Brienzersee	18.02.14	100	<0.005	<0.005	<0.005	<0.005
Brienzersee	14.10.14	100	<0.005	<0.005	<0.005	<0.005
Brienzersee	16.02.16	100	<0.005	<0.005	<0.005	<0.005
Brienzersee	11.10.16	100	<0.005	<0.005	<0.005	<0.005
Brienzersee	21.02.12	200	<0.005	<0.005	<0.005	<0.005
Brienzersee	16.10.12	200	<0.005	<0.005	<0.005	<0.005
Brienzersee	18.02.14	200	<0.005	<0.005	<0.005	<0.005
Brienzersee	14.10.14	200	<0.005	<0.005	<0.005	<0.005
Brienzersee	16.02.16	200	<0.005	<0.005	<0.005	<0.005
Brienzersee	11.10.16	200	<0.005	<0.005	<0.005	<0.005
Brienzersee	21.02.12	Grund	<0.005	<0.005	<0.005	<0.005
Brienzersee	16.10.12	Grund	<0.005	<0.005	<0.005	<0.005
Brienzersee	18.02.14	Grund	<0.005	<0.005	<0.005	<0.005
Brienzersee	14.10.14	Grund	<0.005	<0.005	<0.005	<0.005
Brienzersee	16.02.16	Grund	<0.005	<0.005	<0.005	<0.005
Brienzersee	11.10.16	Grund	<0.005	<0.005	<0.005	<0.005
Thunersee	21.02.12	0	<0.005	<0.005	<0.005	<0.005
Thunersee	15.10.12	0	<0.005	<0.005	<0.005	<0.005
Thunersee	17.02.14	0	<0.005	<0.005	<0.005	<0.005
Thunersee	13.10.14	0	<0.005	<0.005	<0.005	<0.005
Thunersee	15.02.16	0	<0.005	<0.005	<0.005	<0.005
Thunersee	10.10.16	0	<0.005	<0.005	<0.005	<0.005
Thunersee	21.02.12	10	<0.005	<0.005	<0.005	<0.005
Thunersee	15.10.12	10	<0.005	<0.005	<0.005	<0.005
Thunersee	17.02.14	10	<0.005	<0.005	<0.005	<0.005
Thunersee	13.10.14	10	<0.005	<0.005	<0.005	<0.005
Thunersee	17.02.16	10	<0.005	<0.005	<0.005	<0.005
Thunersee	10.10.16	10	<0.005	<0.005	<0.005	<0.005
Thunersee	21.02.12	20	<0.005	<0.005	<0.005	<0.005
Thunersee	15.10.12	20	<0.005	<0.005	<0.005	<0.005
Thunersee	17.02.14	20	<0.005	<0.005	<0.005	<0.005
Thunersee	13.10.14	20	<0.005	<0.005	<0.005	<0.005
Thunersee	15.02.16	20	<0.005	<0.005	<0.005	<0.005
Thunersee	10.10.16	20	<0.005	<0.005	<0.005	<0.005
Thunersee	21.02.12	100	<0.005	<0.005	<0.005	<0.005
Thunersee	15.10.12	100	<0.005	<0.005	<0.005	<0.005
Thunersee	17.02.14	100	<0.005	<0.005	<0.005	<0.005
Thunersee	13.10.14	100	<0.005	<0.005	<0.005	<0.005
Thunersee	15.02.16	100	<0.005	<0.005	<0.005	<0.005
Thunersee	10.10.16	100	<0.005	<0.005	<0.005	<0.005
Thunersee	21.02.12	Grund	<0.005	<0.005	<0.005	<0.005
Thunersee	15.10.12	Grund	<0.005	<0.005	<0.005	<0.005
Thunersee	17.02.14	Grund	<0.005	<0.005	<0.005	<0.005
Thunersee	13.10.14	Grund	<0.005	<0.005	<0.005	<0.005
Thunersee	15.02.16	Grund	<0.005	<0.005	<0.005	<0.005
Thunersee	10.10.16	Grund	<0.005	<0.005	<0.005	<0.005
Beurteilungswert			0.3	0.05	0.05	70

Zusammenstellung der Messwerte: Analyseprogramm 3

Probenahmeort	Datum Probenahme	Entnahmetiefe [m]	1,3-Dinitrobenzol [ug/l]	2,4-Dinitrotoluol [ug/l]	2,6-Dinitrotoluol [ug/l]	Diphenylamin [ug/l]
Urnersee	26.10.12	5	<0.005	<0.005	<0.005	<0.005
	25.02.14	5	<0.005	<0.005	<0.005	<0.005
	14.10.14	5	<0.005	<0.005	<0.005	<0.005
	23.02.16	5	<0.005	<0.005	<0.005	<0.005
	20.10.16	5	<0.005	<0.005	<0.005	<0.005
	26.10.12	30	<0.005	<0.005	<0.005	<0.005
	25.02.14	30	<0.005	<0.005	<0.005	<0.005
	14.10.14	30	<0.005	<0.005	<0.005	<0.005
	23.02.16	30	<0.005	<0.005	<0.005	<0.005
	20.10.16	30	<0.005	<0.005	<0.005	<0.005
	26.10.12	100	<0.005	<0.005	<0.005	<0.005
	25.02.14	100	<0.005	<0.005	<0.005	<0.005
	14.10.14	100	<0.005	<0.005	<0.005	<0.005
	23.02.16	100	<0.005	<0.005	<0.005	<0.005
	20.10.16	100	<0.005	<0.005	<0.005	<0.005
	26.10.12	Grund	<0.005	<0.005	<0.005	<0.005
	25.02.14	Grund	<0.005	<0.005	<0.005	<0.005
	14.10.14	Grund	<0.005	<0.005	<0.005	<0.005
	23.02.16	Grund	<0.005	<0.005	<0.005	<0.005
	20.10.16	Grund	<0.005	<0.005	<0.005	<0.005
Gersauerbecken	26.10.12	5	<0.005	<0.005	<0.005	<0.005
	25.02.14	5	<0.005	<0.005	<0.005	<0.005
	14.10.14	5	<0.005	<0.005	<0.005	<0.005
	23.02.16	5	<0.005	<0.005	<0.005	<0.005
	20.10.16	5	<0.005	<0.005	<0.005	<0.005
	26.10.12	25	<0.005	<0.005	<0.005	<0.005
	25.02.14	25	<0.005	<0.005	<0.005	<0.005
	14.10.14	25	<0.005	<0.005	<0.005	<0.005
	23.02.16	30	<0.005	<0.005	<0.005	<0.005
	20.10.16	25	<0.005	<0.005	<0.005	<0.005
	26.10.12	100	<0.005	<0.005	<0.005	<0.005
	25.02.14	100	<0.005	<0.005	<0.005	<0.005
	14.10.14	100	<0.005	<0.005	<0.005	<0.005
	23.02.16	100	<0.005	<0.005	<0.005	<0.005
	20.10.16	100	<0.005	<0.005	<0.005	<0.005
	26.10.12	Grund	<0.005	<0.005	<0.005	<0.005
	25.02.14	Grund	<0.005	<0.005	<0.005	<0.005
	14.10.14	Grund	<0.005	<0.005	<0.005	<0.005
	23.02.16	Grund	<0.005	<0.005	<0.005	<0.005
	20.10.16	Grund	<0.005	<0.005	<0.005	<0.005
Tellsplatte	27.02.14	100	<0.005	<0.005	<0.005	<0.005
Tellsplatte	14.10.14	100	<0.005	<0.005	<0.005	<0.005
Salzfass	26.02.14	25	<0.005	<0.005	<0.005	<0.005
Salzfass	14.10.14	25	<0.005	<0.005	<0.005	<0.005
Salzfass	23.02.16	30	<0.005	<0.005	<0.005	<0.005
Salzfass	20.10.16	25	<0.005	<0.005	<0.005	<0.005
Beurteilungswert			0.3	0.05	0.05	70