

IFA-Proficiency Testing Scheme for Water Analysis

**Round N148
Major Ions**

Sample Dispatch: 2 September 2019





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Round: N 148	Date / Signature:	10.10.2019 Wolfgang Kandler

This report has 217 pages.

This report summarises the results of round N148 (major ions) within the IFA-Proficiency Testing Scheme for Water Analysis. The samples N148A and N148B were distributed to the participants on Monday, 2 September 2019. Closing date for reporting results to the IFA-Tulln was Friday, 27 September 2019. Each participant received two samples of 1000 mL, each filled into two 500 mL PET bottles.

59 laboratories participated in this interlaboratory comparison. All participants submitted results.

To make the results of this round anonymous, each laboratory was given a laboratory code on a random basis.

Samples

The samples consisted of artificial ground water. For sample preparation, ultrapure water was spiked with solutions of salts and standards in order to simulate the ionic composition of natural Austrian ground water. The following substances were added to the samples: CaCO₃, CaCl₂, Ca(NO₃)₂, MgSO₄, Mg(NO₃)₂, NaCl, NaHCO₃, Na₂SO₄, KHCO₃, C₆H₁₅PO₃, potassium hydrogen phthalate (for DOC) and certified standard solutions of NaNO₂, NH₄Cl, KH₂PO₄, H₃BO₃ and Zn(CN)₂/KCN. Both samples, N148A and N148B, contained free CO₂, which was used for dissolution of CaCO₃. No other substances (e.g. preservatives) were added. The samples were stabilised by sterile filtration and low temperature.

Ammonium was not added to sample N148A and no phosphorus compounds were added to sample N148B in order to check the analytical blank values.

Homogeneity, accuracy and stability tests at the IFA-Tulln

The samples N148A and N148B were analysed for all investigated parameters prior to shipment to the participants. The results of the measurements are listed in the result tables and the parameter oriented part of the report ("IFA result").

After ca. four weeks DOC, NH₄⁺, NO₂⁻, o-PO₄³⁻ and CN⁻ were determined in two bottles of N148A and N148B. The results of the measurements are listed in the result tables and the parameter oriented part of the report ("Stability test"). Stability tests for all other parameters will be carried out together with the accuracy tests of the following round (N149).

According to our experience the samples remain stable up to 18 months for the parameters conductivity, total hardness, alkalinity, Ca²⁺, Mg²⁺, Na⁺, K⁺, NO₃⁻, Cl⁻, SO₄²⁻, Boron and HCO₃⁻ when stored at 4°C in the dark. For the parameters CN⁻, NH₄⁺, NO₂⁻, o-PO₄³⁻, total-P and DOC the samples remain stable several weeks, whereas the first changes normally are observed for ammonium and cyanide.

Results

Data evaluation was based on target concentrations that were calculated from the weights of the substances and standards used to produce the samples. Their uncertainty intervals correspond to the expanded uncertainty (coverage factor k = 2) as described in the EURACHEM/CITAC Guide "Quantifying Uncertainty in Analytical Measurement, 3rd Edition (2012)".

The target value of the electrical conductivity was set to the laboratory mean (conventional value). When calculated from more than 20 results, the laboratory mean has a smaller uncertainty than our estimate calculated from the target concentrations by Debye-Hückel's theory: 2.4 % (p = 95 %). However, the calculated electrical conductivity was 477 µS/cm in sample N148A and 544 µS/cm in sample N148B.

For the pH no target values can be assigned. The results can be compared on the tables. In this kind of samples containing CO₂, the pH tends to increase slowly over time.

Total phosphorus after digestion had to be determined according to DIN EN ISO 6878. Diethyl ethylphosphonate ($C_6H_{15}PO_3$), which can be determined as phosphate only after oxidative digestion and potassium dihydrogen phosphate (KH_2PO_4) were used for preparation. The target values of total-P were calculated from the weights of the two substances. The results were given in mg/L o- PO_4^{3-} .

Cyanide (easily liberatable) had to be determined according to ISO 14403 - 2:2012 (ISO 6703 - 2:1984; DIN 38504 - 13). A certified potassium cyanide - zinc cyanide standard solution was used for preparation of the interlaboratory comparison samples. The major advantage of the zinc complex over free cyanide is its excellent stability behaviour at neutral pH. The results were given in mg/L CN^- .

Recoveries for individual laboratory results and overall mean values are related to the target concentrations. The results were tested for outliers by application of the Hampel outlier test (level of significance 99 %).

In order to check the analytical blank values, target concentrations were set to <0.01 mg/L NH_4^+ , <0.009 mg/L o- PO_4^{3-} and <0.009 mg/L total-P (as PO_4^{3-}) in N148A and N148B, which meets the minimum quantifiable values defined by the Austrian ground and river water monitoring program and the quantification limits of the analytical methods applied in the IFA.

The recoveries of the target concentrations, calculated from outlier-corrected data mean values ranged between 90.4 % (cyanide in sample N148B) and 103.6 % (DOC in sample N148A).

The between laboratory CVs covered the range between 1.1 % (conductivity in sample N148A) and 15.7 % (cyanide in sample N148A).

All confidence intervals of the outlier-corrected laboratory mean values encompass the corresponding target values with their uncertainties. For all other parameters, statistically, no difference could be detected between theoretical target concentrations and outlier corrected laboratory means.

z-scores

The most common approach is to form the z-score given by

$$z = \frac{x_i - \bar{x}}{\sigma}$$

z z-score
x_i result of laboratory
x̄ target value or mean value („consensus value“)
σ standard deviation

Thus, the z-score is the ratio of the estimated bias (difference between result and target value) and a standard deviation. The z-score criteria were determined from relative standard deviations from all interlaboratory comparisons that were organised by the IFA-Tulln in the period from 2008 to 2018. They represent long-term performance data of all former participating laboratories. The z-scores are listed together with the recoveries in the tables of the parameter oriented part.

Additionally, each laboratory obtained for every sample a single sheet that summarises the z-scores of the laboratory in graphical and tabular form.

The following table lists the z-score criteria as relative standard deviation and their limits of applicability. Z-scores were only calculated, if the target values were higher than these limits.

Parameter	z-Score-criteria (%)	Lower limit	Unit
Alkalinity K _{S4.3}	2.2	0.2	mmol/L
Ammonium	13	0.01	mg/L
Boron	8.6	0.012	mg/L
Calcium	3.3	9	mg/L
Chloride	3.2	2	mg/L
el. Conductivity	1.3	50	µS/cm
Cyanide	18	0.01	mg/L
DOC	6.0	1	mg/L
Hydrogen carbonate	2.5	20	mg/L
Magnesium	3.6	1	mg/L
Nitrate	3.5	2	mg/L
Nitrite	5.6	0.01	mg/L
Orthophosphate	11	0.015	mg/L
Potassium	4.8	0.5	mg/L
Sodium	3.4	1	mg/L
Sulphate	3.1	3	mg/L
Total hardness	2.8	0.1	mmol/L
Total-P (as PO ₄ ³⁻)	11	0.015	mg/L

Normally, a classification based on z-scores is made this way:

z-Score	Classification
<2	satisfactory
2< z <3	questionable
>3	unsatisfactory

Please note that this evaluation is made on the background of the average performance of all participants of the IFA-Proficiency Testing Scheme during the period from 2008 to 2018.

Illustration of results

An explanation to the illustration of the results is given on the following page.

The **laboratory oriented part** contains the measurement results and reported uncertainties of each individual laboratory for all parameters together with the achieved recoveries in graphical and tabular form. This part of the report also lists tables with the results originally reported by the laboratories.

In the **parameter oriented part** the reported results and corresponding uncertainties are illustrated together with recoveries of the target values and the z-scores for each parameter and all laboratories. This information is presented in graphical and tabular form.

Results, which were identified as outliers by the Hampel test are marked with an asterisk. These values were not considered for the calculation of statistical parameters (mean values, standard deviations and confidence intervals). Moreover, the parameter oriented part contains the uncertainties of the target values. The uncertainty intervals correspond to the expanded uncertainty (coverage factor $k = 2$) as described in the EURACHEM / CITAC Guide “Quantifying Uncertainty in Analytical Measurement”, 3rd Edition (2012)”. The uncertainty interval of the reference concentration is illustrated in the graphs as a grey band around the 100 % recovery line.

Results, for which no recoveries could be calculated, are illustrated by one of the following symbols: **FN** (false negative), **FP** (false positive) or • - symbol.

- “FN”: A result is considered false negative when the “< result” reported is lower than the corresponding target value
- “FP”: False positive results can only be obtained for compounds that were evaluated on the basis of a “< target value”. A result is termed FP if it does not include (strike) the “< target” with its measurement uncertainty.
- “•”: All other results for which no recoveries can be calculated are illustrated by this symbol

Tulln, 10 October 2019

EXPLANATION

Sample M106A

Parameter Copper

Target value $\pm U$ ($k=2$) $4,79 \mu\text{g/l} \pm 0,13 \mu\text{g/l}$

IFA result $\pm U$ ($k=2$) $4,79 \mu\text{g/l} \pm 0,38 \mu\text{g/l}$

Stability test $\pm U$ ($k=2$) $4,69 \mu\text{g/l} \pm 0,38 \mu\text{g/l}$

Obtained from sample preparation, U =uncertainty

Determined at IFA prior to shipment of samples

Determined at IFA 3 weeks after sample dispatch

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	5.16	0.4128	$\mu\text{g/l}$	108%	0.90
B	4.22	0.42	$\mu\text{g/l}$	88%	-1.38
C	4.45	0.13	$\mu\text{g/l}$	93%	-0.83
D			$\mu\text{g/l}$		
E			$\mu\text{g/l}$		
F	4.10	0.08	$\mu\text{g/l}$	86%	-1.68
G			$\mu\text{g/l}$		
H			$\mu\text{g/l}$		
I	4.75	0.74	$\mu\text{g/l}$	99%	-0.10
J	<5		$\mu\text{g/l}$	*	
K	4.76		$\mu\text{g/l}$	99%	-0.07
L	<10		$\mu\text{g/l}$	*	
M	4.8	0.5	$\mu\text{g/l}$	100%	0.02
N	3.7	0.4	$\mu\text{g/l}$	77%	-2.65
O	4.47	0.447	$\mu\text{g/l}$	93%	-0.78
P	6.0		$\mu\text{g/l}$	125%	2.94
Q	4.17	0.2	$\mu\text{g/l}$	87%	-1.51
R	4.6	0.8	$\mu\text{g/l}$	96%	-0.46
S	4.44	0.67	$\mu\text{g/l}$	93%	-0.85
T			$\mu\text{g/l}$		
U	4.675	0.935	$\mu\text{g/l}$	98%	-0.28
V	5.0	0.50	$\mu\text{g/l}$	104%	0.51
W	3.54	0.3	$\mu\text{g/l}$	74%	-3.03
X	7.108	*	$\mu\text{g/l}$	148%	5.63
Y	<10		$\mu\text{g/l}$	*	
Z			$\mu\text{g/l}$		
AA	<3.0		$\mu\text{g/l}$	FN	
AB	3.775	0.107	$\mu\text{g/l}$	79%	-2.46
AC	<10.0		$\mu\text{g/l}$	*	

An asterisk indicates a result detected as outlier by Hampel test

Interval expected to encompass target value as stated by participant

	All results	Outliers excl.	Unit
Mean $\pm CI(99\%)$	$4,65 \pm 0,57$	$4,51 \pm 0,42$	$\mu\text{g/l}$
Recov. $\pm CI(99\%)$	$97,1 \pm 12,0$	$94,1 \pm 8,8$	%
SD between labs	0.84	0.59	$\mu\text{g/l}$
RSD between labs	18.1	13.2	%
n for calculation	18	17	

Between laboratory standard deviation

Laboratory mean and recovery of target value with corresponding confidence intervals ($p=99\%$)

Number of results used for calculation of statistic parameters

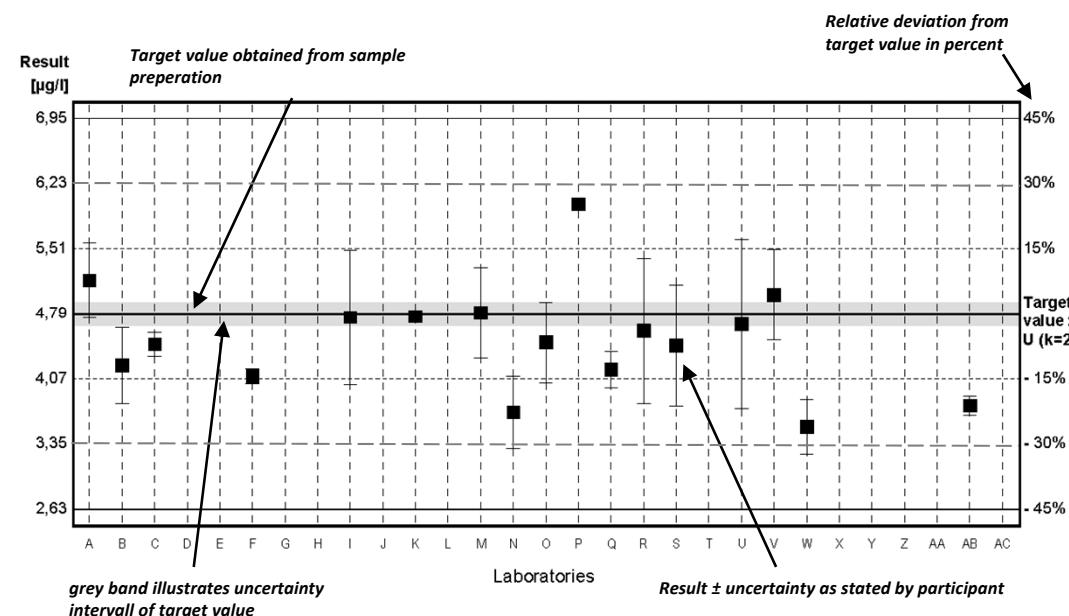


Diagram 1: Measurement results and their uncertainties

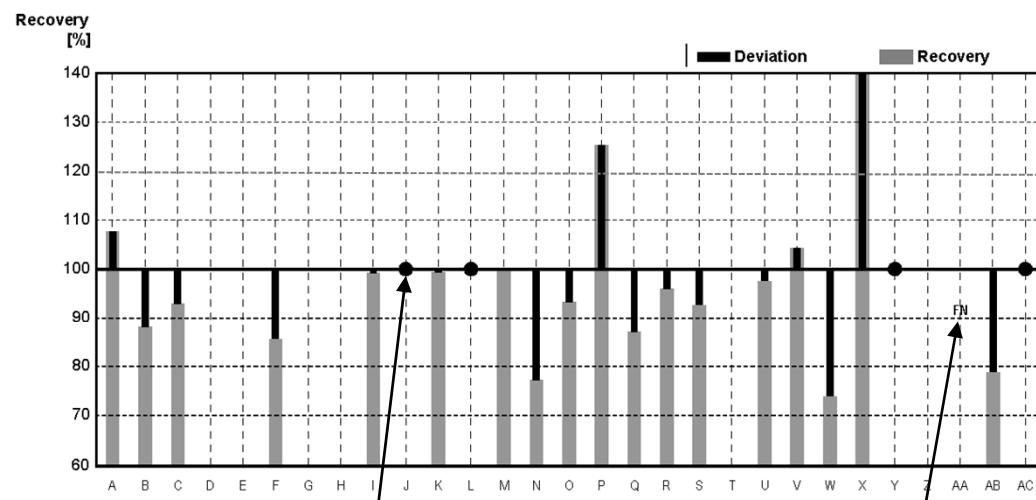


Diagram 2: Recoveries and deviations from target values

Illustration of Results Tables and Parameter Oriented Part

Round N148
Major Ions

Sample Dispatch: 2 September 2019



Results Sample N148A

	pH	Cond.	total-Hardn.	K _{S 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻
Unit		μS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		487	1.55	3.48	209	49.7	7.41	38.6	7.66	36.4
IFA result	6.58	489	1.55	3.41	205	51.2	6.64	41.3	7.86	35.9
Stability test										
A	6.97	489	1.554	3.525	215	49.01	7.07	38.43	7.52	34.78
B			1.57	3.42						
C	6.63	488	1.54	3.34	201	49.6	7.36	37.7	7.57	35.4
D	6.78	476	1.66	3.49	213	52.6	8.27	37.4	7.0	35.5
E	6.69	489	1.51	3.45	211	48.8	7.14	35.6	7.29	39.3
F	6.6	490	1.57	3.40	207.5	50.3	7.66	35.9	7.48	36.7
G	6.47	488	1.55	3.49	213	51.0	6.9	38.9	7.7	38.1
H	6.55	490	1.34	3.38	206	43	6.5	37.1	7.3	37
I	6.84	488	1.5	3.47	211.4	50.298	7.0	38.035	7.398	37.703
J										>30
K	6.6	484	1.6	3.38	203	51.3	7.17	38.5	7.29	36.3
L	6.95	500	1.52			49.1	7.19	37.9	7.50	36
M	6.55	480	1.52	3.36	205	49.1	7.08	34.8	7.5	35.4
N	7.1	508	1.605	3.41	208	52	7.2	39	7.5	34
O	6.28	481	1.59	3.50	214	51	7.4	39	7.5	37
P		513	1.59			50.8	7.81	39.7	7.92	33.8
Q	6.40	490	1.57	3.41	205	50.6	7.39	38.7	7.75	36.3
R	6.63	489	1.55	3.439		49.32	7.71	40.05	7.68	36.433
S	6.77	488	1.52	3.44	207	48.6	7.54	38.0	7.52	35.6
T						54.7	7.34	38.3	7.86	36.5
U	6.55	494	1.52	3.44	207	49.8	6.79	37.7	7.53	35.9
V	7.02	486	1.58	3.46	208.04	50.84	7.52	37.40	7.54	34.21
W	6.63	279.35	1.54							39.09
X			1.49	3.44	206.6					
Y	6.7	477	1.54	3.36	205	49.67	7.35	38.92	7.78	36.114
Z	6.36	491								
AA	6.5	480	1.51	3.43		48.6	7.3	38.2	7.52	36.4
AB	6.5	488	1.56	3.42		50.1	7.64	35.7	7.42	35.4
AC	6.5	485	1.51	3.42	205.8	48.5	7.3	37.1	7.5	37.7

Measurement Uncertainties Sample N148A

	pH ±	Cond. ±	total- Hardn. ±	K _{S 4.3} ±	HCO ₃ ⁻ ±	Ca ²⁺ ±	Mg ²⁺ ±	Na ⁺ ±	K ⁺ ±	NO ₃ ⁻ ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		2	0.02	0.03	2	0.6	0.07	0.4	0.05	0.2
IFA result	0.20	15	0.08	0.17	10	3.1	0.33	2.9	0.47	1.8
Stability test										
A	0	0	0.05	0		0.47	0.21	2.09	0.07	0.35
B			0.06	0.01						
C	0.055	0.577	0.021	0.006	0.100	0.681	0.099	0.404	0.078	0.017
D	1.02	14	0.25	0.52	32	7.89	1.24	5.61	1.05	5.33
E	0.035	14.7	0.12	0.17	10.1	2.2	0.59	2.9	0.52	1.3
F	0.1	10	0.16		21	5.1	0.77	3.6	0.75	
G	0.12	10	0.2	0.25	17	4	0.4	1.2	0.6	2.7
H		3	0.01	0.13	8	0.2	0.1	0.2	0.06	0.3
I										
J										
K	0.16	12	0.16	0.08	5	5	0.7	4	7	4
L		12				7.1	0.70	3.8	0.84	5
M	0.05	1	0.07	0.15	10	2.5	0.35	1.5	0.4	2
N	0.2	51	0.1605	0.34	21	5	0.7	4	0.8	3
O	0.09	5	0.05	0.10	6	2	0.4	2	0.4	3
P		15	0.16			7.6	1.17	6.0	1.19	3.4
Q	0.30	15	0.18	0.13	7	4.6	0.67	3.1	0.62	3.0
R	0.1	13.7	0.16	0.2		2.61	0.66	3.12	0.72	1.89
S	0.27	20	0.14	0.14	8.28	4.37	0.68	3.42	0.68	3.20
T						1.0	0.20	0.4	0.20	0.4
U	0.07	0.4	0.02	0.12	4.14	0.81	0.05	0.55	0.45	0.18
V	0.1	4.51		0.35		4.9	0.75	3.7	0.7	3.4
W	0.10	1								0.10
X			0.15	0.26	20					
Y	0.4	19.1		0.504	30.75	1.987	0.441	2.335	0.778	1.4446
Z										
AA	0.02	30	0.05	0.02		0.6	0.6	0.3	0.06	0.5
AB	0.1	10	0.16	0.35		5.1	0.77	3.6	0.75	3.6
AC	0.2	19	0.08	0.24	14.7	2.3	0.5	1.9	0.3	4.6

Results Sample N148A

	pH	Cond.	total-Hardn.	K _{S 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻
Unit		μS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		487	1.55	3.48	209	49.7	7.41	38.6	7.66	36.4
IFA result	6.58	489	1.55	3.41	205	51.2	6.64	41.3	7.86	35.9
Stability test										
AD		486	1.6	3.42		51.4	7.71	38.7	8.10	
AE			1.785	3.48	212.34	59.55	7.28	39.88	7.81	36.33
AF										
AG			1.52	3.34		49.48	6.94	37.57	7.38	37.2
AH	6.81	492		3.47		47.7	7.15	33.1	7.27	
AI	6.70	493	1.53	3.35	201.356	49.0	7.40	39.4	7.5	34.29
AJ	6.62	489	1.6	3.52	211.7	51.8	7.48	38.2	7.40	36.8
AK	6.48	485				50.3	7.56	38.1	7.65	36.6
AL	6.98	487	1.57	3.47	211.7	52.0	6.6	37.0	7.5	35.0
AM	6.64	479.1	1.5493	3.414	208	51	7.5	38	7.6	36
AN	6.5	472	1.53	3.28	200	49.6	7.2	39.2	7.7	35.0
AO	6.4	485	1.53	1.71	104.34					36.1
AP	6.53	483	1.57	3.23	197	50.5	7.5	38.5	7.8	36.8
AQ	6.498	494	1.448			46.72	6.818			
AR	6.76	488	1.57	3.48	209	50.0	7.6	40.5	8.08	36.1
AS	7.2	491	1.6			53.1	6.4			37
AT	6.33	486	1.548	3.37		50.8	6.8	39.2	7.41	35.8
AU	6.408	518	1.50	3.523	214.9	47.2	7.82	34.9	7.65	36.08
AV	6.43	494	1.55	3.44	228	49.7	7.5	39.8	8.0	37.9
AW			1.48	3.44		47.36	7.31	37.98	7.62	
AX	6.5	486	1.53	3.3	201.5	49.7	7.08	36.4	7.58	36.6
AY					215					
AZ	6.40	449	1.50	3.54	215.94	47.72	7.41	38.77	7.55	51.48
BA	6.6	486	1.53	3.47	208	49.3	7.29	38.8	7.58	37.6
BB	6.54	484								33.9
BC				3.48						
BD	6.39	487		3.48	209					34.8
BE	6.49	479	1.49	3.46	211	48.5	6.93	37	7.41	33.7
BF	6.8		1.73			54.2	7.5	41.2	7.6	35.4
BG	6.47	484	1.58	3.54	99.2	51.3	7.25	33.9	6.47	35.0

Measurement Uncertainties Sample N148A

	pH ±	Cond. ±	total- Hardn. ±	K _{S 4.3} ±	HCO ₃ ±	Ca ²⁺ ±	Mg ²⁺ ±	Na ⁺ ±	K ⁺ ±	NO ₃ ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		2	0.02	0.03	2	0.6	0.07	0.4	0.05	0.2
IFA result	0.20	15	0.08	0.17	10	3.1	0.33	2.9	0.47	1.8
Stability test										
AD		9.7				7.71	0.93	3.5	1.22	
AE			0.141	0.28	17.62	3.39	0.40	4.25	0.74	1.49
AF										
AG			0.075	0.13		2.22	0.42	1.39	0.28	1.22
AH	0.10	5		0.02		0.2	0.26	0.3	0.11	
AI	0.2	25	0.15	0.030	20.0	4.9	0.74	4.0	0.75	3.00
AJ						3.7	0.48	0.8	0.23	0.7
AK	0.1	11.9								0.51
AL										
AM	0.04	14.0	0.025	0.025	10	2	0.4	1	0.2	1
AN	0.1	19				3.5	0.6	4.3	1.2	2.5
AO	0.1	22	0.02	0.11	6.68					0.3
AP	0.1	48	0.13			4.0	0.6	3.1	0.9	4.4
AQ										
AR		10	0.08	0.17	10	2.5	0.4	2.0	0.40	1.1
AS	0.4	24.5	0.1			2.7	0.3			1.9
AT	0.05	10		0.01		0.5	0.25	0.25	0.05	0.003
AU										
AV										
AW				0.18		2.81	0.71	2.03	0.38	
AX	0.1	25	0.15	0.3	20	2.5	0.4	1.8	0.4	2
AY										
AZ	0					0.464	0.183	0.545	0.187	2.269
BA	0.3	20	0.1	0.2	9	4	0.9	6	1	3
BB	0.031	5.0								0.55
BC				0.34						
BD										
BE	0.2	2	0.03	0.04	2.4	0.2	0.03	0.4	0.04	2.7
BF						4.9	0.7	3.7	0.5	6.4
BG	0.13	10	0.32	0.71	19.8	10.3	1.45	6.78	1.29	7.0

Results Sample N148A

	NO₂⁻	NH₄⁺	Cl⁻	SO₄²⁻	o-PO₄³⁻	Boron	DOC	total-P (as PO₄³⁻)	CN⁻
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.036	<0.01	21.1	14.9	0.055	0.052	3.65	0.118	0.072
IFA result	0.035	<0.01	21.2	15.2	0.055	0.053	3.68	0.121	0.071
Stability test	0.035	<0.01			0.055		3.65		0.071
A	0.038	0.169	20.042	14.616	<0.0408	<0.05	5.42	0.0331	0.0211
B		0.005			0.047		3.92		0.068
C	0.0407	<0.010	21.0	15.1	0.0626	0.053	3.71	0.122	0.0603
D	0.035	<0.01	20.8	15.0	0.051	0.053	4.00	0.123	0.081
E	0.035	<0.01	22.8	22.2	0.058	0.0506	3.95	0.119	0.059
F	0.036	<0.010	20.4	14.9	0.054		3.693	0.109	
G	0.035	<0.020	20.9	15.3	0.055	0.0488	3.68	0.108	
H	0.037	<0.01	21.7	15.4			3.83		
I	<0.02	<0.02	19.502	15.107	0.156	0.0582	3.695	0.187	
J		<0.01			0.036				
K	0.037	<0.01	19.9	14.9	0.048	0.049	3.96	0.11	0.05
L	0.035	0.0036	21	15	0.053	0.051	3.53	0.111	
M	0.037	<0.01	19.8	15.9	0.049	n.b.	n.b.	0.09	n.b.
N	0.033	<0.005	22	14	0.047	0.043	4.1	0.045	0.075
O	0.034	<0.02	21	15.3	0.054			<0.01	
P	0.033		19.0	13.7		0.051			0.071
Q	0.041	<0.008	20.3	14.1	0.056	0.053	3.61	0.119	0.070
R	0.035	<0.025	21.2	14.5	0.058	53.43	3.61	0.12	0.0588
S	0.036	<0.01	21.1	14.5	0.056	0.048	3.82	0.124	0.063
T		0.08	20.9	14.4	0.05				
U	0.0335	[0.0026]	20.9	14.9	0.0527	0.052	3.76	0.1148	
V	0.036	<0.0026	19.84	14.21	0.057	0.0536	3.67	0.116	
W	0.10	<0.10	18.71	13.86	0.010		3.73	0.011	
X									
Y	0.035	0.00063	21.11	15.32	0.052	0.055	3.9	0.123	73.86
Z									
AA	0.038	<0.03	21.0	15.0			3.90		
AB	0.036	<0.010	19.8	14.4					0.076
AC	0.036	<0.010	21.8	15.1	0.053	0.0518	4.2	0.119	0.1

Measurement Uncertainties Sample N148A

	NO_2^- ±	NH_4^+ ±	Cl^- ±	SO_4^{2-} ±	o-PO_4^{3-} ±	Boron ±	DOC ±	total-P (as PO_4^{3-}) ±	CN^- ±
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.001		0.1	0.1	0.003	0.001	0.05	0.003	0.002
IFA result	0.002		1.1	0.6	0.002	0.005	0.15	0.028	0.007
Stability test	0.002				0.002		0.15		0.007
A	0	0.02	0.04	0.11	0.0005	0	0.1	0.006	0.006
B		0.0004			0.005		0.028		0.009
C	0.0001		0.021	0.017	0.001	0.0006	0.010	0.004	0.001
D	0.005		3.12	2.25	0.008	0.008	0.6	0.018	0.012
E	0.004		1.5	0.7	0.004	0.006	0.63	0.009	0.009
F	0.004				0.005		0.3693	0.011	
G	0.004	0.006	1.7	0.9	0.008	0.0034	0.52	0.020	
H	0.003		0.1	0.2			0.34		
I									
J					0.01				
K	0.004		2	1.5	0.005	0.005	0.4	0.01	0.005
L	0.007	0.0015	3.6	2.0	0.009	0.012	0.35	0.020	
M	0.002		1	0.7	0.003			0.01	
N	0.003		2	1	0.005	0.004	0.4	0.009	0.008
O	0.002		2	0.8	0.005				
P	0.003		1.9	1.4		0.008			0.018
Q	0.006		1.1	0.8	0.006	0.007	0.32	0.012	0.015
R	0.004		1.31	0.86	0.006	5.24	0.65	0.03	0.012
S	0.003		1.90	1.31	0.005	0.009	0.34	0.011	0.006
T		0.02	0.3	0.1	0.01				
U	0.0015		0.09	0.36	0.0021	0.002	0.07	0.0021	
V	0.003		2.0	1.4	0.006	0.0080	0.55	0.012	
W	0.05		0.10	0.10	0.005		0.05	0.005	
X									
Y	0.0028		0.844	0.919	0.0062	0.0066	0.31	0.0184	7.386
Z									
AA	0.015	0.08	0.25	3.0			0.03		
AB	0.005		2.0	1.5					0.008
AC	0.005		1.9	1.5	0.007	0.0072	0.8	0.017	

Results Sample N148A

	NO₂⁻	NH₄⁺	Cl⁻	SO₄²⁻	o-PO₄³⁻	Boron	DOC	total-P (as PO₄³⁻)	CN⁻
Unit	mg/l	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.036	<0.01	21.1	14.9	0.055	0.052	3.65	0.118	0.072
IFA result	0.035	<0.01	21.2	15.2	0.055	0.053	3.68	0.121	0.071
Stability test	0.035	<0.01			0.055		3.65		0.071
AD									
AE	0.038	0	19.706	15.08	0.015			0.0775	
AF					0.051				
AG	0.038	<0.01	21.6	16.7				0.0975	
AH					0.055				
AI	0.035	<0.05	20.65	11.55	0.062	0.052	3.593	0.125	0.073
AJ	0.039	<0.01	21.4	15.0	0.052	<0.02	3.89	0.076	
AK	0.041	<0.064	20.6		0.052				
AL	0.04	<0.01	20.7	14.9	0.06		4.7		
AM	0.031	0	20	14				0.11	
AN	0.035	<0.04	21.0	15.2	0.050	0.049	3.7	0.12	0.07
AO		<0.032	21.2	14.7	<0.153		3.5	<0.153	
AP	0.037	<0.01	21.0	14.5	0.052	0.047	3.84	0.12	0.07
AQ								1.2	
AR	0.041	<0.030	21.5	15.4	0.053	0.056	3.52	0.115	
AS	0.04	<0.06	22	15	0.07	<0.10			
AT	0.055	<0.0039	20.4	14.7	0.055	0.049	3.59	0.063	0.070
AU	0.0338	0.0	19.81	14.68	0.077		3.449	0.0841	0.0737
AV	0.036	<0.01	21.3	15.1	0.067		3.7	0.110	
AW			21.3	15.4	0.048	0.049		0.12	
AX	0.04	<0.02	20.9	15.1	<0.15	0.06	4.3	0.16	0.071
AY	0.04				<0.05	0.06	4.05	0.05	0.05
AZ	0.032	<0.05	29.33	15.65					
BA	0.036	<0.013	21.5	15.1	0.054		3.81	0.121	
BB	<0.01		19.7	13.8	0.046			0.044	0.037
BC									
BD	0.035	0.005	21.4		0.053			0.114	
BE	<0.05	<0.04	20.8	14.4	<1.0		3.7	0.17	0.068
BF		0.01	22.3	17.5					
BG	0.045	0.036	20.6	14.9	0.119	0.047	3.65	0.196	0.062

Measurement Uncertainties Sample N148A

	NO_2^- ±	NH_4^+ ±	Cl^- ±	SO_4^{2-} ±	o-PO_4^{3-} ±	Boron ±	DOC ±	total-P (as PO_4^{3-}) ±	CN^- ±
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.001		0.1	0.1	0.003	0.001	0.05	0.003	0.002
IFA result	0.002		1.1	0.6	0.002	0.005	0.15	0.028	0.007
Stability test	0.002				0.002		0.15		0.007
AD									
AE	0.003	0	0.83	0.44	0.001			0.016	
AF					0.004				
AG	0.00067		0.40	0.83				0.0022	
AH					0.001				
AI	0.003	0.005	2.00	1.10	0.0060	0.005	0.15	0.013	0.007
AJ	0.001		0.4	1.3	0.001				
AK	0.003				0.004				
AL									
AM	0.013	0.007	1	1.5				0.05	
AN	0.006		1.1	0.9		0.008	0.4		
AO			0.2	0.2			0.01		
AP	0.007		2.0	1.5	0.019	0.008	0.46	0.03	
AQ									
AR	0.004		0.7	0.5	0.005	0.006	0.35	0.017	
AS	0.002		1.1	0.8	0.004				
AT	0.003	0.002	0.27	0.17	0.001	0.001	0.1	0.001	0.0015
AU	0.002								
AV									
AW			1.53		0.001	0.01			
AX	0.005		1	1		0.012	0.2	0.02	0.014
AY									
AZ			1.521	0.181					
BA	0.003		2	1	0.007		0.6	0.02	
BB			0.35	0.34	0.004			0.03	0.004
BC									
BD									
BE			1.5	1.4			0.3	0.01	0.002
BF		0.01	2.9	3.2					
BG	0.009	0.007	4.1	3.0	0.024	0.009	0.73	0.039	0.012

Results Sample N148B

	pH	Cond.	total-Hardn.	K _{S 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		551	2.27	1.25	73.4	69.3	13.2	11.4	1.88	73.1
IFA result	6.42	552	2.32	1.23	71.9	73.0	12.2	12.3	2.02	71.3
Stability test										
A	6.88	555	2.29	1.375	84	69.73	13.18	11.01	1.90	69.87
B			2.33	1.26						
C	6.31	551	2.24	1.19	70.6	68.5	13.0	11.4	1.86	72.1
D	6.61	545	2.48	1.27	77.5	74.7	15.1	11.1	1.63	72.9
E	6.53	552	2.23	1.19	72.8	68.4	12.8	10.6	1.83	67.4
F	6.6	551	2.34	1.23	72.0	70.5	14.0	10.9	1.89	76.2
G	6.32	550	2.32	1.27	78	71.1	13.1	11.5	1.7	77.3
H	6.36	556	2.28	1.28	78	69.6	13.2	11.9	2	73.1
I	6.673	549	2.3	1.24	75.7	72.389	13.043	11.511	1.812	73.028
J										26.91
K	6.3	547	2.3	1.23	72	71.4	12.2	11.3	1.8	72.4
L	6.85	566	2.23			68.6	12.7	11.3	1.85	72
M	6.39	540	2.25	1.22	74.3	69.1	12.8	11.3	1.9	71.3
N	7.0	558	2.496	1.25	76.2	75	13	11	1.7	70
O	6.16	545	2.4	1.300	79.3	72	13.2	11.3	1.81	75
P		575	2.34			70.9	13.95	11.8	1.90	67.9
Q	6.23	559	2.29	1.22	71.4	70.0	13.1	11.5	1.90	73.6
R	6.50	551	2.28	1.244		69.14	13.51	11.74	1.86	73.04
S	6.54	550	2.26	1.24	72.3	68.1	13.6	11.2	1.88	72.0
T						75.0	13.1	10.2	1.97	72.9
U	6.40	558	2.32	1.24	72.6	71.9	12.8	11.1	1.89	72.5
V	6.90	548	2.34	1.25	73.21	71.53	13.56	11.19	1.90	69.77
W	6.79	496.75	2.16							90.19
X			2.21	1.24	72.24					
Y	6.4	539	2.28	1.22	74.4	69.51	13.35	11.43	2	72.768
Z	6.24	564								
AA	6.3	545	2.27	1.25		69.3	13.1	11.1	1.76	73.1
AB	6.4	551	2.33	1.23		70.3	13.9	10.9	1.88	72.4
AC	6.4	545	2.32	1.23	71.7	70.2	13.7	11.4	1.9	73.7

Measurement Uncertainties Sample N148B

	pH ±	Cond. ±	total- Hardn.±	K _{S 4.3} ±	HCO ₃ ⁻ ±	Ca ²⁺ ±	Mg ²⁺ ±	Na ⁺ ±	K ⁺ ±	NO ₃ ⁻ ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		2	0.01	0.01	0.9	0.4	0.1	0.2	0.05	0.4
IFA result	0.20	17	0.12	0.06	3.6	4.4	0.6	0.9	0.12	3.6
Stability test										
A	0	0	0.08	0.08		0.58	0.68	0.79	0.13	0.36
B			0.07	0.02						
C	0.017	0.577	0.006	0.001	0.058	0.115	0.058	0.058	0.040	0.384
D	0.99	16	0.37	0.19	11.6	11.2	2.27	1.67	0.24	10.94
E	0.034	16.6	0.18	0.06	3.5	3.1	1.1	0.87	0.13	2.2
F	0.1	10	0.23		7.2	7.1	1.4	1.1	0.19	
G	0.11	11	0.20	0.09	6	2.8	0.8	0.3	0.1	5.4
H		3	0.01	0.05	3	0.3	0.1	0.1	0.02	0.6
I										
J										6.02
K	0.16	14	0.2	0.03	2	7	1	1	0.2	7
L		13				9.8	1.3	1.3	0.21	10
M	0.05	1	0.1	0.05	3.5	3.5	0.6	0.5	0.1	3
N	0.2	56	0.178	0.12	7.6	8	1	1	0.2	7
O	0.09	6	0.1	0.037	2.3	2	0.6	0.6	0.09	5
P		17	0.24			10.6	2.09	1.8	0.29	6.8
Q	0.30	17	0.25	0.06	2.9	6.3	1.2	1.0	0.17	5.9
R	0.1	15.4	0.23	0.07		3.66	1.16	0.92	0.17	3.8
S	0.26	22	0.20	0.05	2.89	6.13	1.22	1.01	0.17	6.48
T						1.0	0.5	0.2	0.15	0.6
U	0.06	0.1	0.03	0.07	1.45	0.82	0.54	0.58	0.02	0.35
V	0.1	4.51		0.13		7.0	1.4	1.1	0.2	6.9
W	0.10	1								0.10
X			0.22	0.094	7.2					
Y	0.38	21.6		0.183	11.17	2.78	0.801	0.686	0.2	2.9107
Z										
AA	0.02	30	0.05	0.02		0.6	0.6	0.3	0.06	0.5
AB	0.1	10	0.23	0.15		7.1	1.4	1.1	0.19	7.3
AC	0.2	22	0.12	0.10	6.3	3.3	0.9	0.6	0.1	9.0

Results Sample N148B

	pH	Cond.	total-Hardn.	K _{S 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		551	2.27	1.25	73.4	69.3	13.2	11.4	1.88	73.1
IFA result	6.42	552	2.32	1.23	71.9	73.0	12.2	12.3	2.02	71.3
Stability test										
AD		552	2.4	1.24		72.6	13.1	11.2	1.89	
AE			2.286	1.27	77.49	70.76	12.66	11.71	1.602	71.97
AF										
AG			2.19	1.1		66.85	12.70	10.96	1.80	72.2
AH	6.61	555		1.26		67.3	12.1	10.6	1.75	
AI	6.77	562	2.28	1.21	70.780	67.8	13.5	11.5	1.86	70.95
AJ	6.16	548	2.39	1.27	74.4	73.8	13.32	11.0	1.97	73.4
AK	6.28	547				71.8	13.9	9.35	1.85	73.8
AL	6.75	550	2.29	1.25	76.3	71.0	12.4	11.1	1.7	59.1
AM	6.48	541.1	2.2847	1.222	75	71	14	11	1.8	73
AN	6.3	529	2.24	1.15	70	69.2	12.9	11.3	1.9	72.1
AO	6.6	545	2.19	1.22	74.44					71.3
AP	6.48	551	2.30	1.52	92.7	70.0	13.4	11.3	1.9	76.5
AQ	6.308	554	2.134			65.58	12.03			
AR	6.60	551	2.32	1.29	76	69.4	14.1	12.2	2.08	72.7
AS	6.9	553	2.4			77.2	12.2			75
AT	6.16	555	2.302	1.21		71.8	12.4	11.0	1.87	69.7
AU	6.266	568	2.24	1.227	74.8	66.5	14.13	9.57	1.82	73.57
AV	6.31	564	2.28	1.26	74.7	69.5	13.4	11.8	1.9	73.7
AW			2.23	1.24		67.41	13.24	11.48	1.903	
AX	6.3	551	2.3	1.2	73.3	70.3	13.1	10.6	1.91	73.3
AY					77					
AZ	6.40	523	2.35	1.29	78.69	72.52	13.21	11.39	1.80	86.44
BA	6.4	548	2.29	1.25	73.0	70.0	13.2	11.5	1.72	73.3
BB	6.47	554								71.3
BC				1.26						
BD	6.21	550		1.25	73.3					66.5
BE	6.32	540	2.25	1.24	75.7	68.4	13.2	11.4	1.93	75.4
BF	6.8		2.15			75.9	13.8	12.1	1.9	69.1
BG	6.33	544	2.33	1.43	40.0	72.9	12.5	9.33	2.63	69.7

Measurement Uncertainties Sample N148B

	pH ±	Cond. ±	total- Hardn.±	K _{S 4.3} ±	HCO ₃ ⁻ ±	Ca ²⁺ ±	Mg ²⁺ ±	Na ⁺ ±	K ⁺ ±	NO ₃ ⁻ ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		2	0.01	0.01	0.9	0.4	0.1	0.2	0.05	0.4
IFA result	0.20	17	0.12	0.06	3.6	4.4	0.6	0.9	0.12	3.6
Stability test										
AD		11.0				10.9	1.96	1.01	0.23	
AE			0.181	0.11	6.43	4.03	0.70	1.24	0.15	2.95
AF										
AG			0.11	0.043		3.00	0.78	0.41	0.068	2.38
AH	0.06	4		0.02		0.9	0.1	0.2	0.12	
AI	0.2	28	0.23	0.010	7.0	6.8	1.3	1.2	0.19	7.0
AJ						3.5	0.47	0.8	0.24	1.6
AK	0.1	13.5								1.0
AL										
AM	0.04	14.0	0.025	0.025	10	2	0.4	1	0.2	1
AN	0.1	21				4.8	1.0	1.2	0.4	5.0
AO	0.1	25	0.02	0.08	4.76					0.6
AP	0.1	55	0.18			5.6	1.0	0.9	0.2	9.2
AQ										
AR		11	0.09	0.07	4	2.8	0.6	0.6	0.10	2.2
AS	0.4	27.7	0.1			3.9	0.6			3.8
AT	0.05	10		0.01		0.5	0.25	0.25	0.05	0.003
AU										
AV										
AW				0.06		4.00	1.28	0.37	0.10	
AX	0.1	27	0.23	0.1	7	3.5	0.7	0.5	0.1	4
AY										
AZ						1.531	0.364	0.144	0.078	3.036
BA	0.3	22	0.1	0.1	3	6	1.6	1.8	0.3	6
BB	0.052	3.8								0.91
BC				0.12						
BD										
BE	0.2	1	0.03	0.03	2	0.4	0.05	0.1	0.01	6.1
BF						6.8	1.2	1.1	0.1	12.4
BG	0.13	11	0.47	0.29	8.00	14.6	2.50	1.87	0.53	13.9

Results Sample N148B

	NO₂⁻	NH₄⁺	Cl⁻	SO₄²⁻	o-PO₄³⁻	Boron	DOC	total-P (as PO₄³⁻)	CN⁻
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.071	0.075	57.2	50.4	<0.009	0.112	4.58	<0.009	0.032
IFA result	0.069	0.076	57.0	50.9	<0.009	0.112	4.57	<0.009	0.031
Stability test	0.069	0.076			<0.009		4.50		0.031
A	0.062	0.206	56.141	50.565	<0.0408	0.07	6.58	<0.0245	0.0197
B		0.057			<0.01		4.55		0.029
C	0.0771	0.0816	58.0	51.4	<0.015	0.113	4.65	<0.015	0.0277
D	0.073	0.078	56.8	51.6	<0.01	0.115	5.03	<0.01	0.036
E	0.068	0.082	54.2	48.7	<0.015	0.110	4.67	<0.015	0.028
F	0.070	0.070	59.1	51.9	<0.005		4.649	<0.005	
G	0.069	0.080	59.8	52.2	<0.009	0.1075	4.46	<0.009	
H	0.070	0.070	59.2	51.6			4.79		
I	0.041	0.064	54.609	52.299	<0.1	0.1072	4.66	<0.1	
J		0.068			<0.019				
K	0.073	0.077	56.8	51.4	<0.02	0.11	4.84	<0.05	0.025
L	0.070	0.078	57	50	<0.009	0.109	4.3	<0.012	
M	0.067	0.079	55.9	53.2	<0.01	n.b.	n.b.	<0.02	n.b.
N	0.069	0.075	56	46	<0.004	0.1	5.1	<0.030	0.031
O	0.068	0.076	60	53	<0.01			0.116	
P	0.063		52.0	47.6		0.107			0.031
Q	0.076	0.075	57.8	49.8	<0.006	0.112	4.52	<0.006	0.027
R	0.0663	0.075	57.1	49.9	<0.05	113.618	4.5	<0.015	0.0272
S	0.069	0.077	58.0	50.1	0.013	0.109	4.81	<0.05	0.027
T		0.19	56.7	48.9	<0.01				
U	0.0672	0.0731	57.4	50.3	<0.0150	0.115	4.72	[0.0022]	
V	0.071	0.073	54.69	48.66	<0.0055	0.1139	4.56	<0.0010	
W	0.32	<0.10	59.65	52.95	<0.010		4.67	0.044	
X									
Y	0.071	0.065	57.63	49.93	0.008	0.118	4.8	<0.015	31.95
Z									
AA	0.062	0.097	57.2	50.8			4.81		
AB	0.071	0.070	56.2	49.3					0.033
AC	0.071	0.080	57.7	51.9	<0.010	0.116	5.0	<0.010	0.05

Measurement Uncertainties Sample N148B

	NO_2^- ±	NH_4^+ ±	Cl^- ±	SO_4^{2-} ±	o-PO_4^{3-} ±	Boron ±	DOC ±	total-P (as PO_4^{3-}) ±	CN^- ±
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Target value	0.002	0.005	0.3	0.3		0.001	0.05		0.002
IFA result	0.003	0.005	2.9	2.0		0.011	0.18		0.003
Stability test	0.003	0.005					0.18		0.003
A	0	0.02	0.77	0.55	0.001	0	0.1	0.008	0.004
B		0.008					0.007		0.007
C	0.0002	0.0011	0.294	0.290		0.0001	0.012		0.001
D	0.011	0.012	8.52	7.74		0.017	0.75		0.005
E	0.007	0.006	3.6	1.6		0.014	0.75		0.005
F	0.007	0.007					0.4649		
G	0.077	0.025	4.8	3.1	0.001	0.0075	0.62	0.002	
H	0.005	0.002	0.4	0.5			0.42		
I									
J		0.002							
K	0.007	0.007	6	5		0.01	0.5		0.003
L	0.013	0.013	9.7	6.6		0.026	0.38		
M	0.004	0.004	3	2.5					
N	0.007	0.008	6	5		0.01	0.5		0.003
O	0.004	0.010	5	3				0.013	
P	0.006		5.2	4.8		0.015			0.008
Q	0.009	0.009	2.9	2.5		0.011	0.41		0.007
R	0.007	0.008	3.54	2.94		11.13	0.81		0.005
S	0.006	0.007	5.22	4.51	0.001	0.02	0.43		0.002
T		0.04	0.4	0.4	0.01				
U	0.0014	0.0023	0.17	0.61		0.001	0.07		
V	0.007	0.0065	5.5	4.9		0.0171	0.68		
W	0.05		0.10	0.10	0.005		0.05	0.005	
X									
Y	0.0057	0.0065	2.305	2.996	0.001	0.0142	0.38		3.195
Z									
AA	0.015	0.08	0.25	3.0			0.03		
AB	0.007	0.007	5.7	5.0					0.005
AC	0.007	0.014	4.5	4.8		0.015	1		

Results Sample N148B

	NO₂⁻	NH₄⁺	Cl⁻	SO₄²⁻	o-PO₄³⁻	Boron	DOC	total-P (as PO₄³⁻)	CN⁻
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.071	0.075	57.2	50.4	<0.009	0.112	4.58	<0.009	0.032
IFA result	0.069	0.076	57.0	50.9	<0.009	0.112	4.57	<0.009	0.031
Stability test	0.069	0.076			<0.009		4.50		0.031
AD									
AE	0.066	0.053	52.95	49.92	0			0	
AF					<0.010				
AG	0.074	0.06	59	51.6				<0.006	
AH					<0.015				
AI	0.060	0.082	55.80	44.35	<0.03	0.114	4.477	<0.009	0.032
AJ	0.077	0.074	57.7	52.7	<0.01	<0.02	4.89	<0.002	
AK	0.077	0.093	57.4		<0.031				
AL	0.07	0.08	58.1	51.8	0.02		5.6		
AM	0.064	0.070	58	49				<0.05	
AN	0.068	0.08	58.2	50.9	<0.015	0.103	4.5	<0.015	0.03
AO		0.071	57.8	49.7	<0.153		4.4	<0.153	
AP	0.068	0.08	60.6	51.5	<0.015	0.097	4.71	<0.015	0.03
AQ								<0.2	
AR	0.077	0.077	57.4	51.0	<0.020	0.118	4.43	<0.031	
AS	0.07	0.07	58	52	<0.05	<0.10			
AT	0.081	0.075	54.4	47.0	0.006	0.106	4.35	0.006	0.031
AU	0.0661	0.085	57.35	50.36	0.026		4.223	0.0547	0.0302
AV	0.072	0.071	58.1	50.9	0.015		4.6	<0.01	
AW			58.6	51.3	<0.015	0.103		<0.01	
AX	0.07	0.06	57.2	50.7	<0.15	0.11	4.8	<0.15	0.031
AY	0.068				<0.05	0.12	5.0	<0.05	0.016
AZ	0.066	0.076	66.10	54.40					
BA	0.072	0.075	58.1	51.1	<0.01		4.61	<0.013	
BB	0.066		53.8	47.3	<0.015			<0.015	0.017
BC									
BD	0.070	0.072	57.8		<0.006			<0.006	
BE	0.06	0.11	60.5	53.4	<1.0		4.7	<0.06	0.029
BF		0.08	55.9	50.6					
BG	0.079	0.075	57.0	54.5	0.049	0.086	4.63	0.052	0.024

Measurement Uncertainties Sample N148B

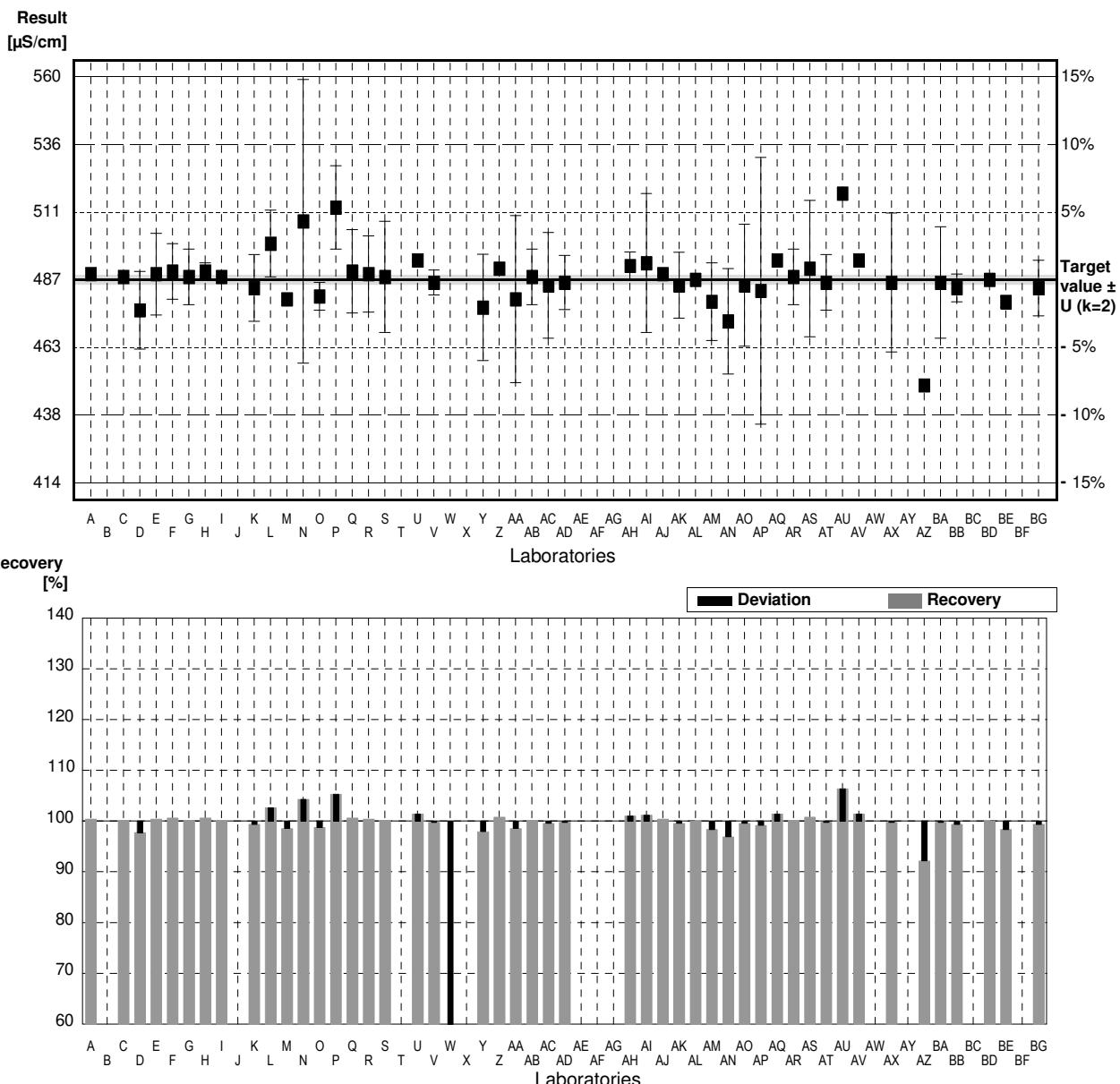
	NO_2^- ±	NH_4^+ ±	Cl^- ±	SO_4^{2-} ±	o-PO_4^{3-} ±	Boron ±	DOC ±	total-P (as PO_4^{3-}) ±	CN^- ±
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Target value	0.002	0.005	0.3	0.3		0.001	0.05		0.002
IFA result	0.003	0.005	2.9	2.0		0.011	0.18		0.003
Stability test	0.003	0.005					0.18		0.003
AD									
AE	0.005	0.006	2.22	1.35	0			0	
AF									
AG	0.0013	0.0022	1.09	2.56					
AH									
AI	0.006	0.008	5.50	4.40	0.003	0.011	0.22	0.013	0.003
AJ	0.001	0.003	1.6	2.7					
AK	0.005	0.004							
AL									
AM	0.013	0.007	1	1.5				0	
AN	0.012	0.01	2.9	3.1		0.016	0.5		
AO		0.01	0.6	0.5			0.1		
AP	0.014	0.01	5.5	5.1		0.017	0.57		
AQ									
AR	0.008	0.008	1.7	1.5		0.012	0.44		
AS	0.004	0.004	2.9	2.6					
AT	0.003	0.002	0.27	0.17	0.001	0.001	0.1	0.001	0.0015
AU	0.004								
AV									
AW			4.22	4.00		0.01			
AX	0.007	0.01	3	3		0.02	0.2		0.006
AY									
AZ		0.02	3.036	2.955					
BA	0.006	0.01	5	4			0.7		
BB	0.004		0.97	1.27					0.004
BC									
BD									
BE	0.01	0.001	4.2	5.3			0.4		0.002
BF		0.01	7.3	9.1					
BG	0.016	0.015	11.4	10.9	0.010	0.017	0.93	0.010	0.005

Sample N148A

Parameter Conductivity

Target value $\pm U$ ($k=2$) 487 $\mu\text{S}/\text{cm}$ \pm 2 $\mu\text{S}/\text{cm}$
 IFA result $\pm U$ ($k=2$) 489 $\mu\text{S}/\text{cm}$ \pm 15 $\mu\text{S}/\text{cm}$

Stability test					
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	489	0	$\mu\text{S}/\text{cm}$	100%	0,32
B			$\mu\text{S}/\text{cm}$		
C	488	0,577	$\mu\text{S}/\text{cm}$	100%	0,16
D	476	14	$\mu\text{S}/\text{cm}$	98%	-1,74
E	489	14,7	$\mu\text{S}/\text{cm}$	100%	0,32
F	490	10	$\mu\text{S}/\text{cm}$	101%	0,47
G	488	10	$\mu\text{S}/\text{cm}$	100%	0,16
H	490	3	$\mu\text{S}/\text{cm}$	101%	0,47
I	488		$\mu\text{S}/\text{cm}$	100%	0,16
J			$\mu\text{S}/\text{cm}$		
K	484	12	$\mu\text{S}/\text{cm}$	99%	-0,47
L	500	12	$\mu\text{S}/\text{cm}$	103%	2,05
M	480	1	$\mu\text{S}/\text{cm}$	99%	-1,11
N	508 *	51	$\mu\text{S}/\text{cm}$	104%	3,32
O	481	5	$\mu\text{S}/\text{cm}$	99%	-0,95
P	513 *	15	$\mu\text{S}/\text{cm}$	105%	4,11
Q	490	15	$\mu\text{S}/\text{cm}$	101%	0,47
R	489	13,7	$\mu\text{S}/\text{cm}$	100%	0,32
S	488	20	$\mu\text{S}/\text{cm}$	100%	0,16
T			$\mu\text{S}/\text{cm}$		
U	494	0,4	$\mu\text{S}/\text{cm}$	101%	1,11
V	486	4,51	$\mu\text{S}/\text{cm}$	100%	-0,16
W	279,35 *	1	$\mu\text{S}/\text{cm}$	57%	-32,80
X			$\mu\text{S}/\text{cm}$		
Y	477	19,1	$\mu\text{S}/\text{cm}$	98%	-1,58
Z	491		$\mu\text{S}/\text{cm}$	101%	0,63
AA	480	30	$\mu\text{S}/\text{cm}$	99%	-1,11
AB	488	10	$\mu\text{S}/\text{cm}$	100%	0,16
AC	485	19	$\mu\text{S}/\text{cm}$	100%	-0,32
AD	486	9,7	$\mu\text{S}/\text{cm}$	100%	-0,16
AE			$\mu\text{S}/\text{cm}$		
AF			$\mu\text{S}/\text{cm}$		
AG			$\mu\text{S}/\text{cm}$		
AH	492	5	$\mu\text{S}/\text{cm}$	101%	0,79
AI	493	25	$\mu\text{S}/\text{cm}$	101%	0,95
AJ	489		$\mu\text{S}/\text{cm}$	100%	0,32
AK	485	11,9	$\mu\text{S}/\text{cm}$	100%	-0,32
AL	487		$\mu\text{S}/\text{cm}$	100%	0,00
AM	479,1	14,0	$\mu\text{S}/\text{cm}$	98%	-1,25
AN	472	19	$\mu\text{S}/\text{cm}$	97%	-2,37
AO	485	22	$\mu\text{S}/\text{cm}$	100%	-0,32



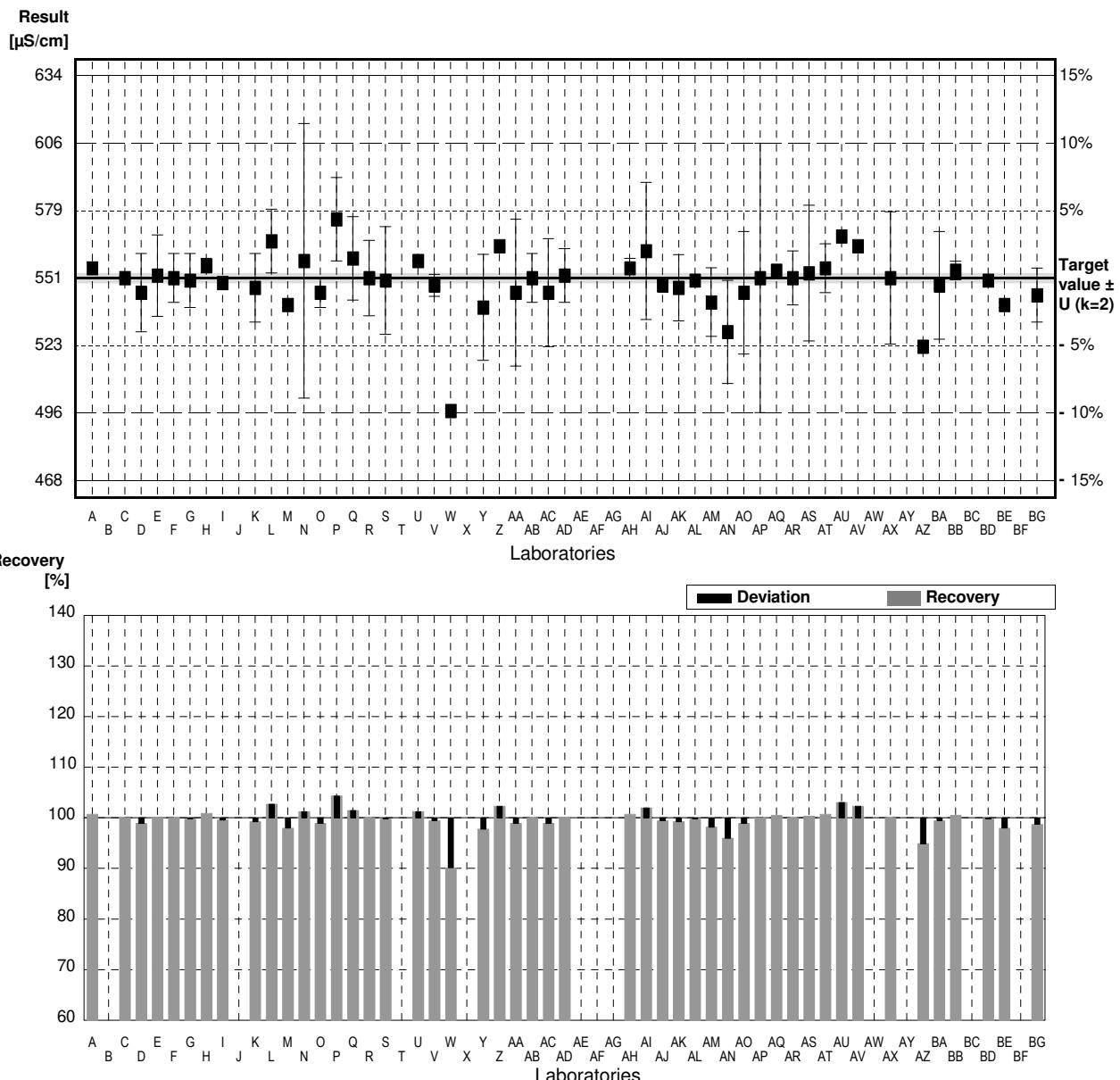
AP	483	48	µS/cm	99%	-0,63
AQ	494		µS/cm	101%	1,11
AR	488	10	µS/cm	100%	0,16
AS	491	24,5	µS/cm	101%	0,63
AT	486	10	µS/cm	100%	-0,16
AU	518 *		µS/cm	106%	4,90
AV	494		µS/cm	101%	1,11
AW			µS/cm		
AX	486	25	µS/cm	100%	-0,16
AY			µS/cm		
AZ	449 *		µS/cm	92%	-6,00
BA	486	20	µS/cm	100%	-0,16
BB	484	5,0	µS/cm	99%	-0,47
BC			µS/cm		
BD	487		µS/cm	100%	0,00
BE	479	2	µS/cm	98%	-1,26
BF			µS/cm		
BG	484	10	µS/cm	99%	-0,47
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	483 ± 12	487 ± 2	µS/cm		
Recov. ± CI(99%)	99,2 ± 2,5	99,9 ± 0,5	%		
SD between labs	32	5	µS/cm		
RSD between labs	6,6	1,1	%		
n for calculation	48	43			

Sample N148B

Parameter Conductivity

Target value $\pm U$ ($k=2$) 551 $\mu\text{S}/\text{cm}$ \pm 2 $\mu\text{S}/\text{cm}$
 IFA result $\pm U$ ($k=2$) 552 $\mu\text{S}/\text{cm}$ \pm 17 $\mu\text{S}/\text{cm}$

Stability test					
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	555	0	$\mu\text{S}/\text{cm}$	101%	0,56
B			$\mu\text{S}/\text{cm}$		
C	551	0,577	$\mu\text{S}/\text{cm}$	100%	0,00
D	545	16	$\mu\text{S}/\text{cm}$	99%	-0,84
E	552	16,6	$\mu\text{S}/\text{cm}$	100%	0,14
F	551	10	$\mu\text{S}/\text{cm}$	100%	0,00
G	550	11	$\mu\text{S}/\text{cm}$	100%	-0,14
H	556	3	$\mu\text{S}/\text{cm}$	101%	0,70
I	549		$\mu\text{S}/\text{cm}$	100%	-0,28
J			$\mu\text{S}/\text{cm}$		
K	547	14	$\mu\text{S}/\text{cm}$	99%	-0,56
L	566	13	$\mu\text{S}/\text{cm}$	103%	2,09
M	540	1	$\mu\text{S}/\text{cm}$	98%	-1,54
N	558	56	$\mu\text{S}/\text{cm}$	101%	0,98
O	545	6	$\mu\text{S}/\text{cm}$	99%	-0,84
P	575 *	17	$\mu\text{S}/\text{cm}$	104%	3,35
Q	559	17	$\mu\text{S}/\text{cm}$	101%	1,12
R	551	15,4	$\mu\text{S}/\text{cm}$	100%	0,00
S	550	22	$\mu\text{S}/\text{cm}$	100%	-0,14
T			$\mu\text{S}/\text{cm}$		
U	558	0,1	$\mu\text{S}/\text{cm}$	101%	0,98
V	548	4,51	$\mu\text{S}/\text{cm}$	99%	-0,42
W	496,75 *	1	$\mu\text{S}/\text{cm}$	90%	-7,57
X			$\mu\text{S}/\text{cm}$		
Y	539	21,6	$\mu\text{S}/\text{cm}$	98%	-1,68
Z	564		$\mu\text{S}/\text{cm}$	102%	1,81
AA	545	30	$\mu\text{S}/\text{cm}$	99%	-0,84
AB	551	10	$\mu\text{S}/\text{cm}$	100%	0,00
AC	545	22	$\mu\text{S}/\text{cm}$	99%	-0,84
AD	552	11,0	$\mu\text{S}/\text{cm}$	100%	0,14
AE			$\mu\text{S}/\text{cm}$		
AF			$\mu\text{S}/\text{cm}$		
AG			$\mu\text{S}/\text{cm}$		
AH	555	4	$\mu\text{S}/\text{cm}$	101%	0,56
AI	562	28	$\mu\text{S}/\text{cm}$	102%	1,54
AJ	548		$\mu\text{S}/\text{cm}$	99%	-0,42
AK	547	13,5	$\mu\text{S}/\text{cm}$	99%	-0,56
AL	550		$\mu\text{S}/\text{cm}$	100%	-0,14
AM	541,1	14,0	$\mu\text{S}/\text{cm}$	98%	-1,38
AN	529 *	21	$\mu\text{S}/\text{cm}$	96%	-3,07
AO	545	25	$\mu\text{S}/\text{cm}$	99%	-0,84



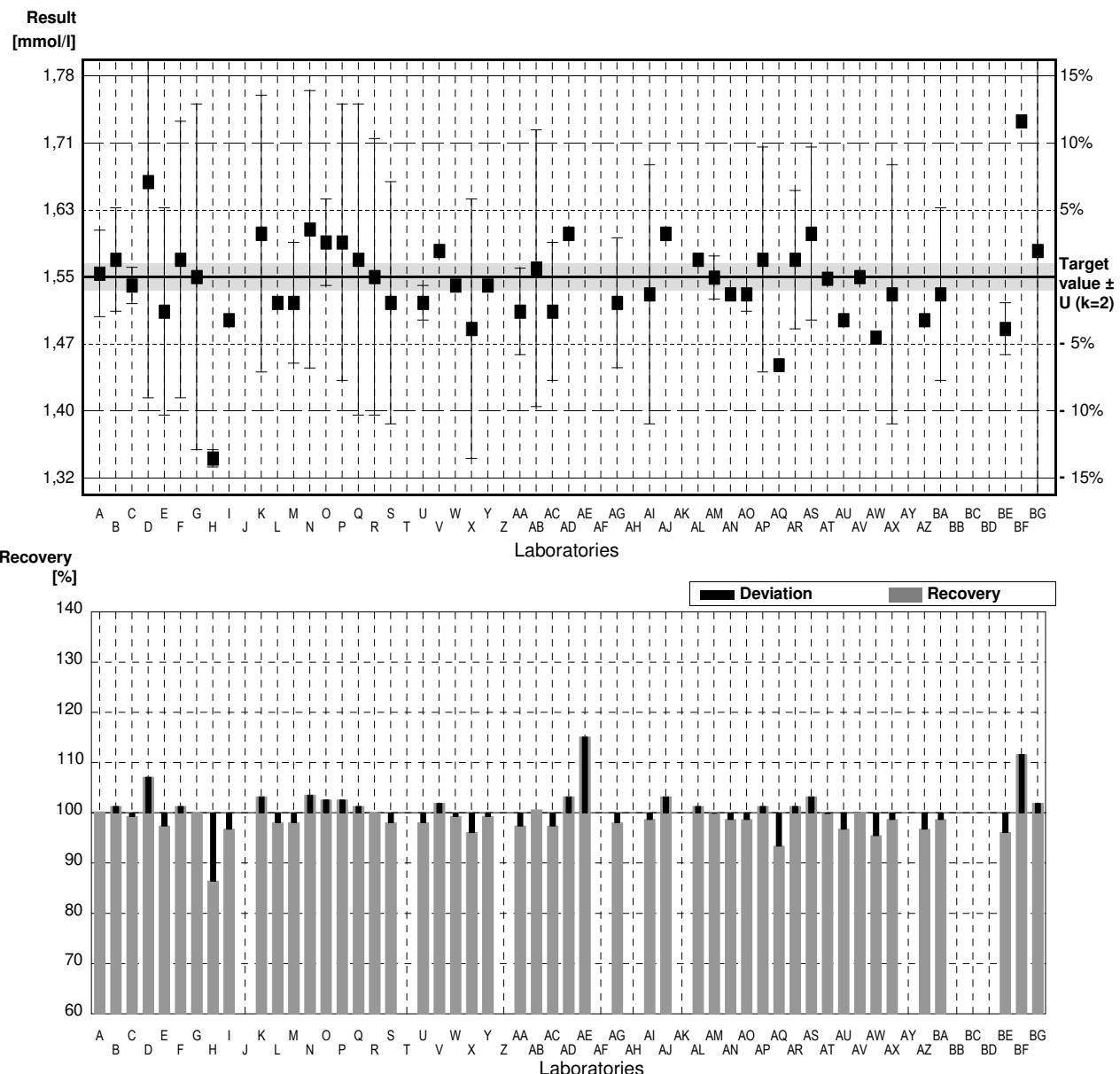
AP	551	55	µS/cm	100%	0,00
AQ	554		µS/cm	101%	0,42
AR	551	11	µS/cm	100%	0,00
AS	553	27,7	µS/cm	100%	0,28
AT	555	10	µS/cm	101%	0,56
AU	568		µS/cm	103%	2,37
AV	564		µS/cm	102%	1,81
AW			µS/cm		
AX	551	27	µS/cm	100%	0,00
AY			µS/cm		
AZ	523 *		µS/cm	95%	-3,91
BA	548	22	µS/cm	99%	-0,42
BB	554	3,8	µS/cm	101%	0,42
BC			µS/cm		
BD	550		µS/cm	100%	-0,14
BE	540	1	µS/cm	98%	-1,54
BF			µS/cm		
BG	544	11	µS/cm	99%	-0,98
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	550 ± 5	551 ± 3	µS/cm		
Recov. ± CI(99%)	99,7 ± 0,8	100,1 ± 0,5	%		
SD between labs	12	7	µS/cm		
RSD between labs	2,2	1,2	%		
n for calculation	48	44			

Sample N148A

Parameter Total hardness

Target value $\pm U$ ($k=2$) 1,55 mmol/l \pm 0,02 mmol/l
 IFA result $\pm U$ ($k=2$) 1,55 mmol/l \pm 0,08 mmol/l

Stability test		mmol/l			
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1,554	0,05	mmol/l	100%	0,09
B	1,57	0,06	mmol/l	101%	0,46
C	1,54	0,021	mmol/l	99%	-0,23
D	1,66	0,25	mmol/l	107%	2,53
E	1,51	0,12	mmol/l	97%	-0,92
F	1,57	0,16	mmol/l	101%	0,46
G	1,55	0,2	mmol/l	100%	0,00
H	1,34 *	0,01	mmol/l	86%	-4,84
I	1,5		mmol/l	97%	-1,15
J			mmol/l		
K	1,6	0,16	mmol/l	103%	1,15
L	1,52		mmol/l	98%	-0,69
M	1,52	0,07	mmol/l	98%	-0,69
N	1,605	0,1605	mmol/l	104%	1,27
O	1,59	0,05	mmol/l	103%	0,92
P	1,59	0,16	mmol/l	103%	0,92
Q	1,57	0,18	mmol/l	101%	0,46
R	1,55	0,16	mmol/l	100%	0,00
S	1,52	0,14	mmol/l	98%	-0,69
T			mmol/l		
U	1,52	0,02	mmol/l	98%	-0,69
V	1,58		mmol/l	102%	0,69
W	1,54		mmol/l	99%	-0,23
X	1,49	0,15	mmol/l	96%	-1,38
Y	1,54		mmol/l	99%	-0,23
Z			mmol/l		
AA	1,51	0,05	mmol/l	97%	-0,92
AB	1,56	0,16	mmol/l	101%	0,23
AC	1,51	0,08	mmol/l	97%	-0,92
AD	1,6		mmol/l	103%	1,15
AE	1,785 *	0,141	mmol/l	115%	5,41
AF			mmol/l		
AG	1,52	0,075	mmol/l	98%	-0,69
AH			mmol/l		
AI	1,53	0,15	mmol/l	99%	-0,46
AJ	1,6		mmol/l	103%	1,15
AK			mmol/l		
AL	1,57		mmol/l	101%	0,46
AM	1,5493	0,025	mmol/l	100%	-0,02
AN	1,53		mmol/l	99%	-0,46
AO	1,53	0,02	mmol/l	99%	-0,46



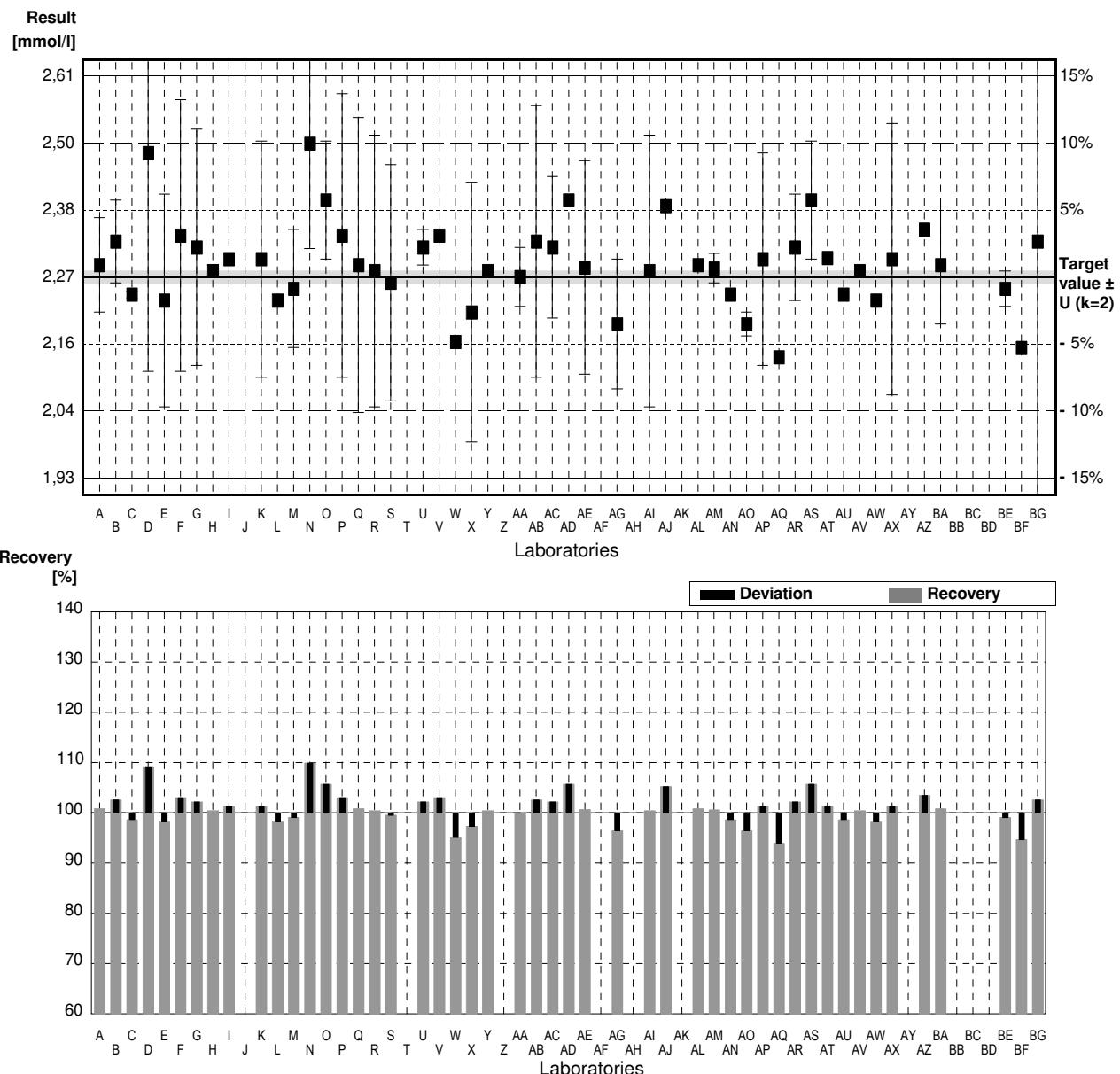
AP	1,57	0,13	mmol/l	101%	0,46
AQ	1,448		mmol/l	93%	-2,35
AR	1,57	0,08	mmol/l	101%	0,46
AS	1,6	0,1	mmol/l	103%	1,15
AT	1,548		mmol/l	100%	-0,05
AU	1,50		mmol/l	97%	-1,15
AV	1,55		mmol/l	100%	0,00
AW	1,48		mmol/l	95%	-1,61
AX	1,53	0,15	mmol/l	99%	-0,46
AY			mmol/l		
AZ	1,50		mmol/l	97%	-1,15
BA	1,53	0,1	mmol/l	99%	-0,46
BB			mmol/l		
BC			mmol/l		
BD			mmol/l		
BE	1,49	0,03	mmol/l	96%	-1,38
BF	1,73 *		mmol/l	112%	4,15
BG	1,58	0,32	mmol/l	102%	0,69
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	1,55 ± 0,03	1,55 ± 0,02	mmol/l		
Recov. ± CI(99%)	100,0 ± 1,6	99,7 ± 1,0	%		
SD between labs	0,07	0,04	mmol/l		
RSD between labs	4,2	2,6	%		
n for calculation	49	46			

Sample N148B

Parameter Total hardness

Target value $\pm U$ ($k=2$) 2,27 mmol/l \pm 0,01 mmol/l
 IFA result $\pm U$ ($k=2$) 2,32 mmol/l \pm 0,12 mmol/l

Stability test					
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	2,29	0,08	mmol/l	101%	0,31
B	2,33	0,07	mmol/l	103%	0,94
C	2,24	0,006	mmol/l	99%	-0,47
D	2,48 *	0,37	mmol/l	109%	3,30
E	2,23	0,18	mmol/l	98%	-0,63
F	2,34	0,23	mmol/l	103%	1,10
G	2,32	0,20	mmol/l	102%	0,79
H	2,28	0,01	mmol/l	100%	0,16
I	2,3		mmol/l	101%	0,47
J			mmol/l		
K	2,3	0,2	mmol/l	101%	0,47
L	2,23		mmol/l	98%	-0,63
M	2,25	0,1	mmol/l	99%	-0,31
N	2,496 *	0,178	mmol/l	110%	3,56
O	2,4	0,1	mmol/l	106%	2,05
P	2,34	0,24	mmol/l	103%	1,10
Q	2,29	0,25	mmol/l	101%	0,31
R	2,28	0,23	mmol/l	100%	0,16
S	2,26	0,20	mmol/l	100%	-0,16
T			mmol/l		
U	2,32	0,03	mmol/l	102%	0,79
V	2,34		mmol/l	103%	1,10
W	2,16		mmol/l	95%	-1,73
X	2,21	0,22	mmol/l	97%	-0,94
Y	2,28		mmol/l	100%	0,16
Z			mmol/l		
AA	2,27	0,05	mmol/l	100%	0,00
AB	2,33	0,23	mmol/l	103%	0,94
AC	2,32	0,12	mmol/l	102%	0,79
AD	2,4		mmol/l	106%	2,05
AE	2,286	0,181	mmol/l	101%	0,25
AF			mmol/l		
AG	2,19	0,11	mmol/l	96%	-1,26
AH			mmol/l		
AI	2,28	0,23	mmol/l	100%	0,16
AJ	2,39		mmol/l	105%	1,89
AK			mmol/l		
AL	2,29		mmol/l	101%	0,31
AM	2,2847	0,025	mmol/l	101%	0,23
AN	2,24		mmol/l	99%	-0,47
AO	2,19	0,02	mmol/l	96%	-1,26



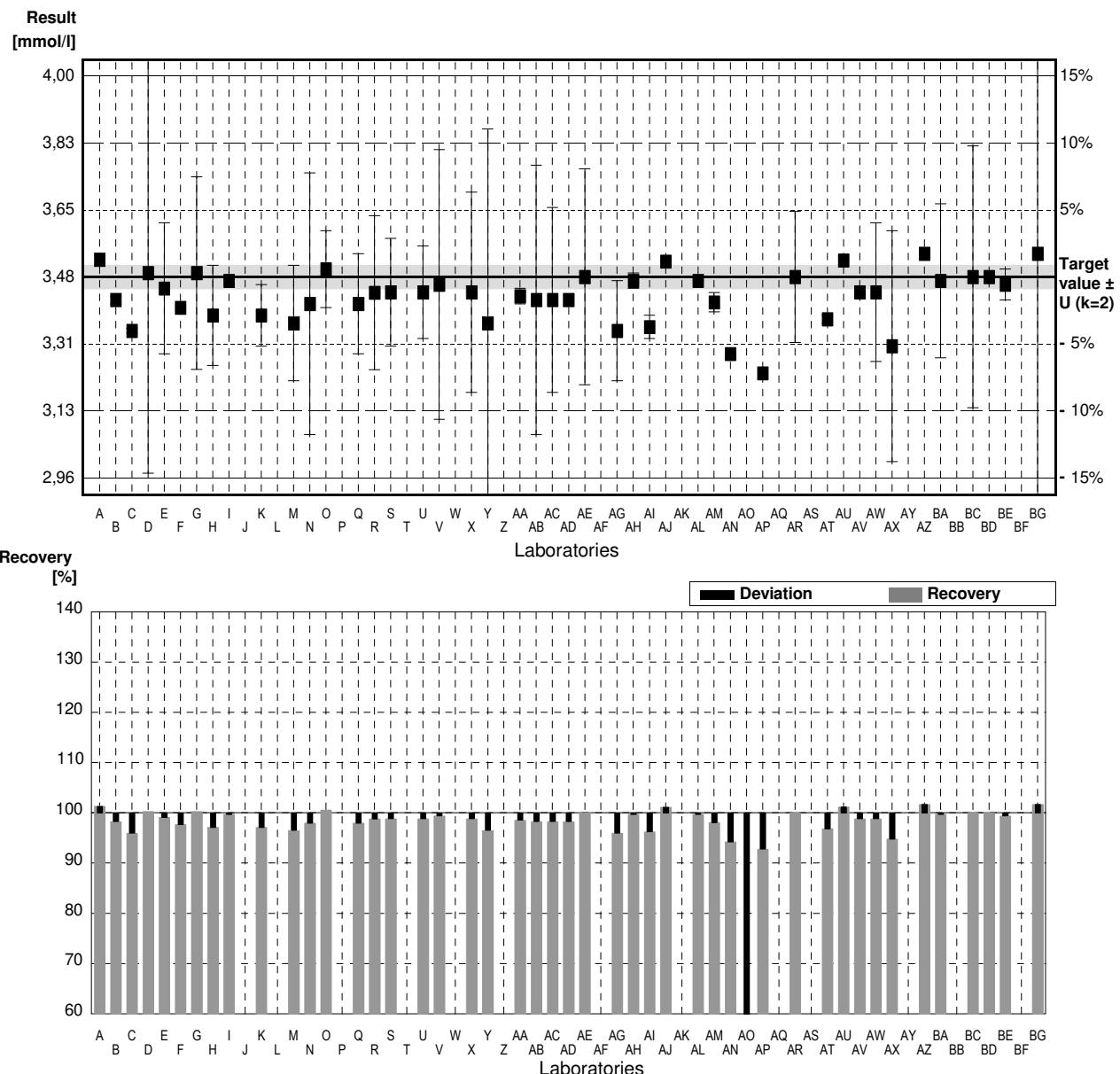
AP	2,30	0,18	mmol/l	101%	0,47
AQ	2,134		mmol/l	94%	-2,14
AR	2,32	0,09	mmol/l	102%	0,79
AS	2,4	0,1	mmol/l	106%	2,05
AT	2,302		mmol/l	101%	0,50
AU	2,24		mmol/l	99%	-0,47
AV	2,28		mmol/l	100%	0,16
AW	2,23		mmol/l	98%	-0,63
AX	2,3	0,23	mmol/l	101%	0,47
AY			mmol/l		
AZ	2,35		mmol/l	104%	1,26
BA	2,29	0,1	mmol/l	101%	0,31
BB			mmol/l		
BC			mmol/l		
BD			mmol/l		
BE	2,25	0,03	mmol/l	99%	-0,31
BF	2,15		mmol/l	95%	-1,89
BG	2,33	0,47	mmol/l	103%	0,94
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	$2,29 \pm 0,03$	$2,28 \pm 0,02$	mmol/l		
Recov. \pm CI(99%)	$101,0 \pm 1,2$	$100,6 \pm 1,1$	%		
SD between labs	0,07	0,06	mmol/l		
RSD between labs	3,2	2,7	%		
n for calculation	49	47			

Sample N148A

Parameter Alkalinity

Target value $\pm U$ ($k=2$) 3,48 mmol/l \pm 0,03 mmol/l
 IFA result $\pm U$ ($k=2$) 3,41 mmol/l \pm 0,17 mmol/l

Stability test					
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	3,525	0	mmol/l	101%	0,59
B	3,42	0,01	mmol/l	98%	-0,78
C	3,34	0,006	mmol/l	96%	-1,83
D	3,49	0,52	mmol/l	100%	0,13
E	3,45	0,17	mmol/l	99%	-0,39
F	3,40		mmol/l	98%	-1,04
G	3,49	0,25	mmol/l	100%	0,13
H	3,38	0,13	mmol/l	97%	-1,31
I	3,47		mmol/l	100%	-0,13
J			mmol/l		
K	3,38	0,08	mmol/l	97%	-1,31
L			mmol/l		
M	3,36	0,15	mmol/l	97%	-1,57
N	3,41	0,34	mmol/l	98%	-0,91
O	3,50	0,10	mmol/l	101%	0,26
P			mmol/l		
Q	3,41	0,13	mmol/l	98%	-0,91
R	3,439	0,2	mmol/l	99%	-0,54
S	3,44	0,14	mmol/l	99%	-0,52
T			mmol/l		
U	3,44	0,12	mmol/l	99%	-0,52
V	3,46	0,35	mmol/l	99%	-0,26
W			mmol/l		
X	3,44	0,26	mmol/l	99%	-0,52
Y	3,36	0,504	mmol/l	97%	-1,57
Z			mmol/l		
AA	3,43	0,02	mmol/l	99%	-0,65
AB	3,42	0,35	mmol/l	98%	-0,78
AC	3,42	0,24	mmol/l	98%	-0,78
AD	3,42		mmol/l	98%	-0,78
AE	3,48	0,28	mmol/l	100%	0,00
AF			mmol/l		
AG	3,34	0,13	mmol/l	96%	-1,83
AH	3,47	0,02	mmol/l	100%	-0,13
AI	3,35	0,030	mmol/l	96%	-1,70
AJ	3,52		mmol/l	101%	0,52
AK			mmol/l		
AL	3,47		mmol/l	100%	-0,13
AM	3,414	0,025	mmol/l	98%	-0,86
AN	3,28		mmol/l	94%	-2,61
AO	1,71 *	0,11	mmol/l	49%	-23,12



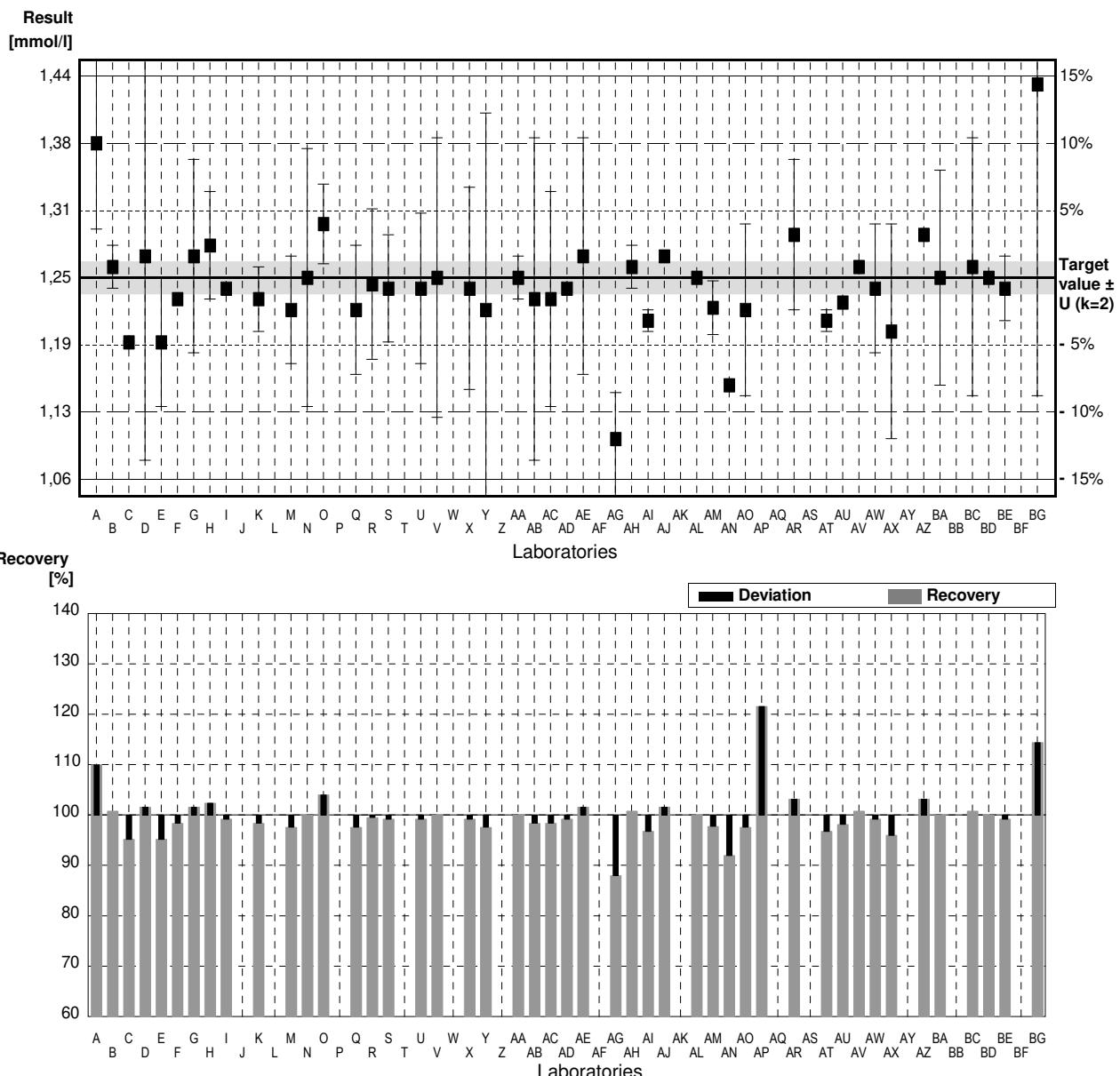
AP	3,23	*		mmol/l	93%	-3,27
AQ				mmol/l		
AR	3,48		0,17	mmol/l	100%	0,00
AS				mmol/l		
AT	3,37		0,01	mmol/l	97%	-1,44
AU	3,523			mmol/l	101%	0,56
AV	3,44			mmol/l	99%	-0,52
AW	3,44		0,18	mmol/l	99%	-0,52
AX	3,3		0,3	mmol/l	95%	-2,35
AY				mmol/l		
AZ	3,54			mmol/l	102%	0,78
BA	3,47		0,2	mmol/l	100%	-0,13
BB				mmol/l		
BC	3,48		0,34	mmol/l	100%	0,00
BD	3,48			mmol/l	100%	0,00
BE	3,46		0,04	mmol/l	99%	-0,26
BF				mmol/l		
BG	3,54		0,71	mmol/l	102%	0,78
	All results		Outliers excl.		Unit	
Mean \pm CI(99%)	3,39 \pm 0,10		3,44 \pm 0,02	mmol/l		
Recov. \pm CI(99%)	97,5 \pm 3,0		98,7 \pm 0,7	%		
SD between labs	0,26		0,06	mmol/l		
RSD between labs	7,7		1,8	%		
n for calculation	46		44			

Sample N148B

Parameter Alkalinity

Target value $\pm U$ ($k=2$) 1,25 mmol/l \pm 0,01 mmol/l
 IFA result $\pm U$ ($k=2$) 1,23 mmol/l \pm 0,06 mmol/l

Stability test		mmol/l			
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1,375 *	0,08	mmol/l	110%	4,55
B	1,26	0,02	mmol/l	101%	0,36
C	1,19	0,001	mmol/l	95%	-2,18
D	1,27	0,19	mmol/l	102%	0,73
E	1,19	0,06	mmol/l	95%	-2,18
F	1,23		mmol/l	98%	-0,73
G	1,27	0,09	mmol/l	102%	0,73
H	1,28	0,05	mmol/l	102%	1,09
I	1,24		mmol/l	99%	-0,36
J			mmol/l		
K	1,23	0,03	mmol/l	98%	-0,73
L			mmol/l		
M	1,22	0,05	mmol/l	98%	-1,09
N	1,25	0,12	mmol/l	100%	0,00
O	1,300	0,037	mmol/l	104%	1,82
P			mmol/l		
Q	1,22	0,06	mmol/l	98%	-1,09
R	1,244	0,07	mmol/l	100%	-0,22
S	1,24	0,05	mmol/l	99%	-0,36
T			mmol/l		
U	1,24	0,07	mmol/l	99%	-0,36
V	1,25	0,13	mmol/l	100%	0,00
W			mmol/l		
X	1,24	0,094	mmol/l	99%	-0,36
Y	1,22	0,183	mmol/l	98%	-1,09
Z			mmol/l		
AA	1,25	0,02	mmol/l	100%	0,00
AB	1,23	0,15	mmol/l	98%	-0,73
AC	1,23	0,10	mmol/l	98%	-0,73
AD	1,24		mmol/l	99%	-0,36
AE	1,27	0,11	mmol/l	102%	0,73
AF			mmol/l		
AG	1,1 *	0,043	mmol/l	88%	-5,45
AH	1,26	0,02	mmol/l	101%	0,36
AI	1,21	0,010	mmol/l	97%	-1,45
AJ	1,27		mmol/l	102%	0,73
AK			mmol/l		
AL	1,25		mmol/l	100%	0,00
AM	1,222	0,025	mmol/l	98%	-1,02
AN	1,15		mmol/l	92%	-3,64
AO	1,22	0,08	mmol/l	98%	-1,09



AP	1,52	*		mmol/l	122%	9,82
AQ				mmol/l		
AR	1,29		0,07	mmol/l	103%	1,45
AS				mmol/l		
AT	1,21		0,01	mmol/l	97%	-1,45
AU	1,227			mmol/l	98%	-0,84
AV	1,26			mmol/l	101%	0,36
AW	1,24		0,06	mmol/l	99%	-0,36
AX	1,2		0,1	mmol/l	96%	-1,82
AY				mmol/l		
AZ	1,29			mmol/l	103%	1,45
BA	1,25		0,1	mmol/l	100%	0,00
BB				mmol/l		
BC	1,26		0,12	mmol/l	101%	0,36
BD	1,25			mmol/l	100%	0,00
BE	1,24		0,03	mmol/l	99%	-0,36
BF				mmol/l		
BG	1,43	*	0,29	mmol/l	114%	6,55
	All results		Outliers excl.		Unit	
Mean \pm CI(99%)	1,25 \pm 0,03		1,24 \pm 0,01	mmol/l		
Recov. \pm CI(99%)	100,0 \pm 2,0		99,2 \pm 1,0	%		
SD between labs	0,06		0,03	mmol/l		
RSD between labs	5,1		2,4	%		
n for calculation	46		42			

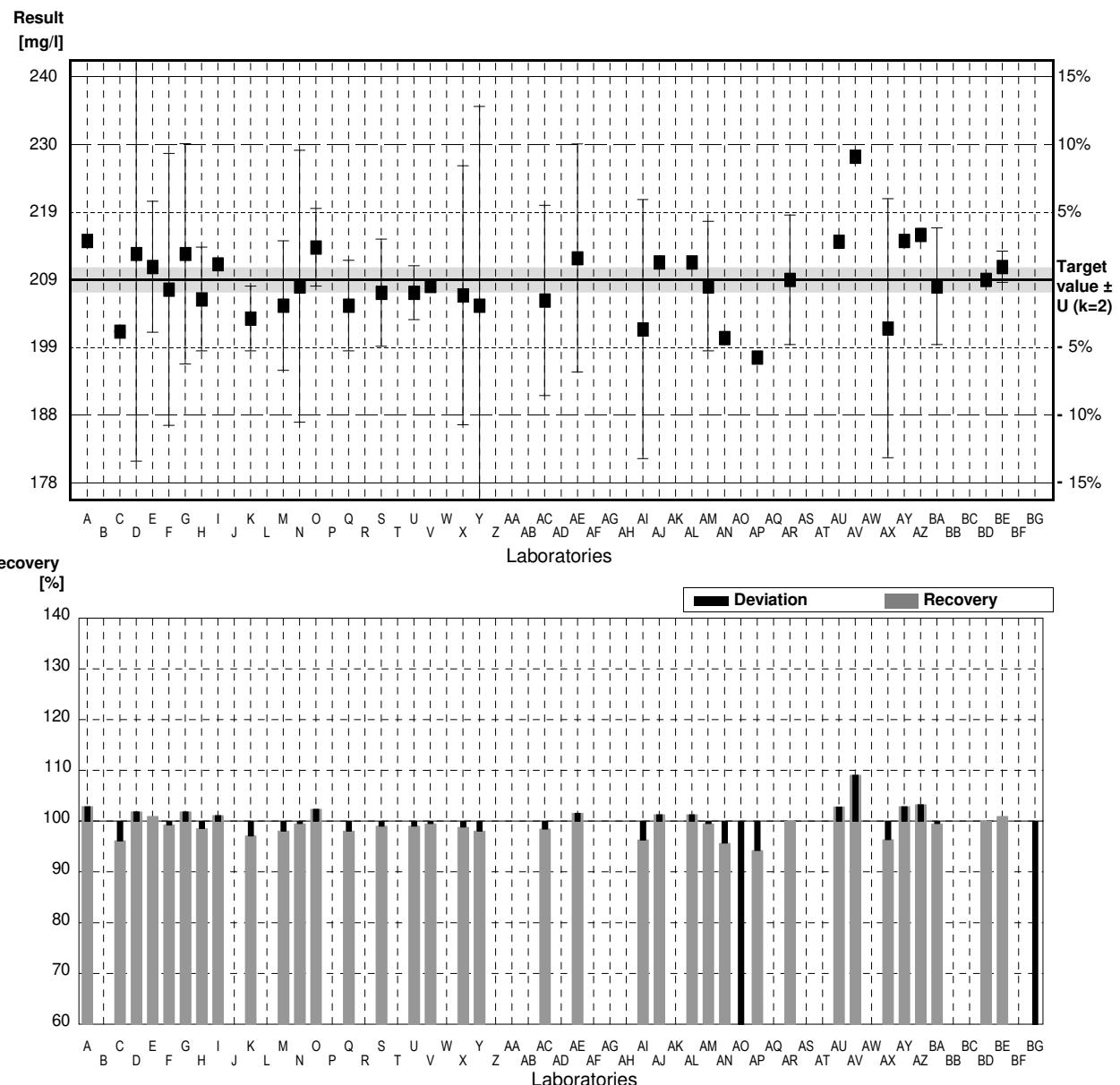
Sample N148A

Parameter Hydrogen carbonate

Target value $\pm U$ ($k=2$) 209 mg/l \pm 2 mg/l
 IFA result $\pm U$ ($k=2$) 205 mg/l \pm 10 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	215		mg/l	103%	1,15
B			mg/l		
C	201	0,100	mg/l	96%	-1,53
D	213	32	mg/l	102%	0,77
E	211	10,1	mg/l	101%	0,38
F	207,5	21	mg/l	99%	-0,29
G	213	17	mg/l	102%	0,77
H	206	8	mg/l	99%	-0,57
I	211,4		mg/l	101%	0,46
J			mg/l		
K	203	5	mg/l	97%	-1,15
L			mg/l		
M	205	10	mg/l	98%	-0,77
N	208	21	mg/l	100%	-0,19
O	214	6	mg/l	102%	0,96
P			mg/l		
Q	205	7	mg/l	98%	-0,77
R			mg/l		
S	207	8,28	mg/l	99%	-0,38
T			mg/l		
U	207	4,14	mg/l	99%	-0,38
V	208,04		mg/l	100%	-0,18
W			mg/l		
X	206,6	20	mg/l	99%	-0,46
Y	205	30,75	mg/l	98%	-0,77
Z			mg/l		
AA			mg/l		
AB			mg/l		
AC	205,8	14,7	mg/l	98%	-0,61
AD			mg/l		
AE	212,34	17,62	mg/l	102%	0,64
AF			mg/l		
AG			mg/l		
AH			mg/l		
AI	201,356	20,0	mg/l	96%	-1,46
AJ	211,7		mg/l	101%	0,52
AK			mg/l		
AL	211,7		mg/l	101%	0,52
AM	208	10	mg/l	100%	-0,19
AN	200		mg/l	96%	-1,72
AO	104,34 *	6,68	mg/l	50%	-20,03



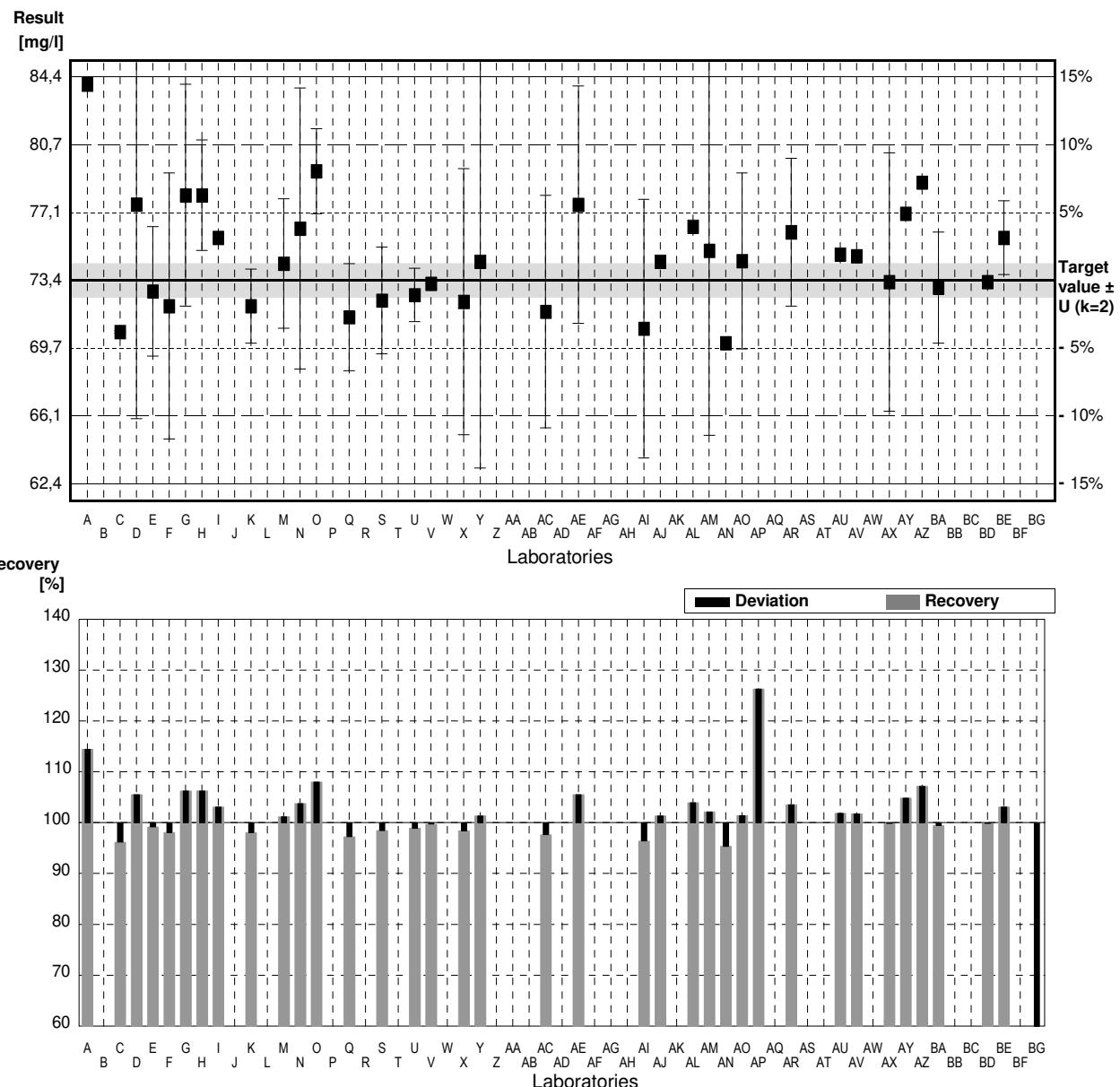
AP	197		mg/l	94%	-2,30
AQ			mg/l		
AR	209	10	mg/l	100%	0,00
AS			mg/l		
AT			mg/l		
AU	214,9		mg/l	103%	1,13
AV	228 *		mg/l	109%	3,64
AW			mg/l		
AX	201,5	20	mg/l	96%	-1,44
AY	215		mg/l	103%	1,15
AZ	215,94		mg/l	103%	1,33
BA	208	9	mg/l	100%	-0,19
BB			mg/l		
BC			mg/l		
BD	209		mg/l	100%	0,00
BE	211	2,4	mg/l	101%	0,38
BF			mg/l		
BG	99,2 *	19,8	mg/l	47%	-21,01
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	203 \pm 11	208 \pm 2	mg/l		
Recov. \pm CI(99%)	97,1 \pm 5,4	99,6 \pm 1,1	%		
SD between labs	25	5	mg/l		
RSD between labs	12,4	2,3	%		
n for calculation	37	34			

Sample N148B

Parameter Hydrogen carbonate

Target value $\pm U$ ($k=2$) 73,4 mg/l \pm 0,9 mg/l
 IFA result $\pm U$ ($k=2$) 71,9 mg/l \pm 3,6 mg/l

Stability test		mg/l			
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	84 *		mg/l	114%	5,78
B			mg/l		
C	70,6	0,058	mg/l	96%	-1,53
D	77,5	11,6	mg/l	106%	2,23
E	72,8	3,5	mg/l	99%	-0,33
F	72,0	7,2	mg/l	98%	-0,76
G	78	6	mg/l	106%	2,51
H	78	3	mg/l	106%	2,51
I	75,7		mg/l	103%	1,25
J			mg/l		
K	72	2	mg/l	98%	-0,76
L			mg/l		
M	74,3	3,5	mg/l	101%	0,49
N	76,2	7,6	mg/l	104%	1,53
O	79,3	2,3	mg/l	108%	3,22
P			mg/l		
Q	71,4	2,9	mg/l	97%	-1,09
R			mg/l		
S	72,3	2,89	mg/l	99%	-0,60
T			mg/l		
U	72,6	1,45	mg/l	99%	-0,44
V	73,21		mg/l	100%	-0,10
W			mg/l		
X	72,24	7,2	mg/l	98%	-0,63
Y	74,4	11,17	mg/l	101%	0,54
Z			mg/l		
AA			mg/l		
AB			mg/l		
AC	71,7	6,3	mg/l	98%	-0,93
AD			mg/l		
AE	77,49	6,43	mg/l	106%	2,23
AF			mg/l		
AG			mg/l		
AH			mg/l		
AI	70,780	7,0	mg/l	96%	-1,43
AJ	74,4		mg/l	101%	0,54
AK			mg/l		
AL	76,3		mg/l	104%	1,58
AM	75	10	mg/l	102%	0,87
AN	70		mg/l	95%	-1,85
AO	74,44	4,76	mg/l	101%	0,57



AP	92,7	*		mg/l	126%	10,52
AQ				mg/l		
AR	76		4	mg/l	104%	1,42
AS				mg/l		
AT				mg/l		
AU	74,8			mg/l	102%	0,76
AV	74,7			mg/l	102%	0,71
AW				mg/l		
AX	73,3		7	mg/l	100%	-0,05
AY	77			mg/l	105%	1,96
AZ	78,69			mg/l	107%	2,88
BA	73,0		3	mg/l	99%	-0,22
BB				mg/l		
BC				mg/l		
BD	73,3			mg/l	100%	-0,05
BE	75,7		2	mg/l	103%	1,25
BF				mg/l		
BG	40,0	*	8,00	mg/l	54%	-18,20
	All results		Outliers excl.		Unit	
Mean \pm CI(99%)	74,2 \pm 3,2		74,4 \pm 1,2		mg/l	
Recov. \pm CI(99%)	101,1 \pm 4,3		101,3 \pm 1,6		%	
SD between labs	7,1		2,5		mg/l	
RSD between labs	9,6		3,3		%	
n for calculation	37		34			

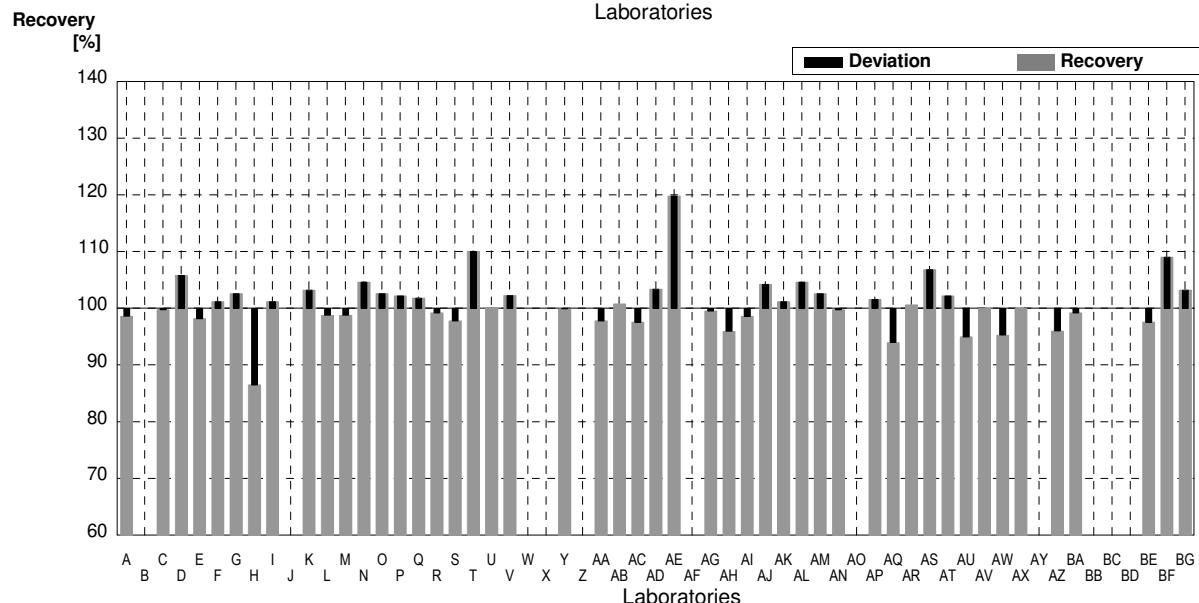
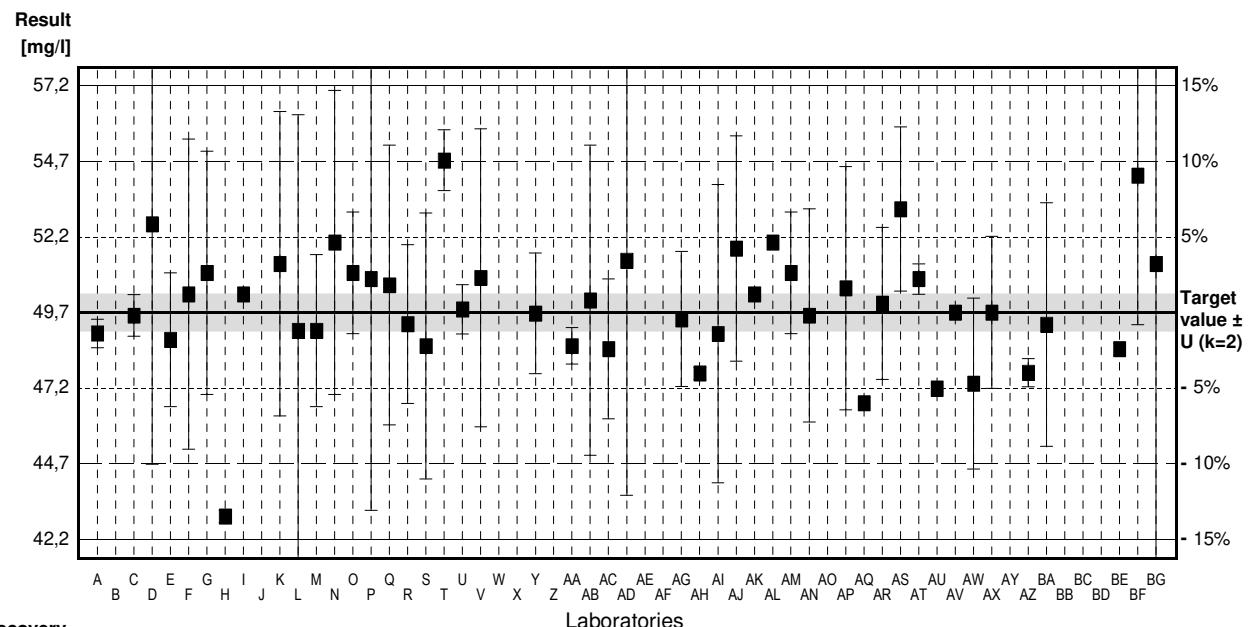
Sample N148A

Parameter Calcium

Target value $\pm U$ ($k=2$) 49,7 mg/l \pm 0,6 mg/l
 IFA result $\pm U$ ($k=2$) 51,2 mg/l \pm 3,1 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	49,01	0,47	mg/l	99%	-0,42
B			mg/l		
C	49,6	0,681	mg/l	100%	-0,06
D	52,6	7,89	mg/l	106%	1,77
E	48,8	2,2	mg/l	98%	-0,55
F	50,3	5,1	mg/l	101%	0,37
G	51,0	4	mg/l	103%	0,79
H	43 *	0,2	mg/l	87%	-4,09
I	50,298		mg/l	101%	0,36
J			mg/l		
K	51,3	5	mg/l	103%	0,98
L	49,1	7,1	mg/l	99%	-0,37
M	49,1	2,5	mg/l	99%	-0,37
N	52	5	mg/l	105%	1,40
O	51	2	mg/l	103%	0,79
P	50,8	7,6	mg/l	102%	0,67
Q	50,6	4,6	mg/l	102%	0,55
R	49,32	2,61	mg/l	99%	-0,23
S	48,6	4,37	mg/l	98%	-0,67
T	54,7	1,0	mg/l	110%	3,05
U	49,8	0,81	mg/l	100%	0,06
V	50,84	4,9	mg/l	102%	0,70
W			mg/l		
X			mg/l		
Y	49,67	1,987	mg/l	100%	-0,02
Z			mg/l		
AA	48,6	0,6	mg/l	98%	-0,67
AB	50,1	5,1	mg/l	101%	0,24
AC	48,5	2,3	mg/l	98%	-0,73
AD	51,4	7,71	mg/l	103%	1,04
AE	59,55 *	3,39	mg/l	120%	6,01
AF			mg/l		
AG	49,48	2,22	mg/l	100%	-0,13
AH	47,7	0,2	mg/l	96%	-1,22
AI	49,0	4,9	mg/l	99%	-0,43
AJ	51,8	3,7	mg/l	104%	1,28
AK	50,3		mg/l	101%	0,37
AL	52,0		mg/l	105%	1,40
AM	51	2	mg/l	103%	0,79
AN	49,6	3,5	mg/l	100%	-0,06
AO			mg/l		



AP	50,5	4,0	mg/l	102%	0,49
AQ	46,72		mg/l	94%	-1,82
AR	50,0	2,5	mg/l	101%	0,18
AS	53,1	2,7	mg/l	107%	2,07
AT	50,8	0,5	mg/l	102%	0,67
AU	47,2		mg/l	95%	-1,52
AV	49,7		mg/l	100%	0,00
AW	47,36	2,81	mg/l	95%	-1,43
AX	49,7	2,5	mg/l	100%	0,00
AY			mg/l		
AZ	47,72	0,464	mg/l	96%	-1,21
BA	49,3	4	mg/l	99%	-0,24
BB			mg/l		
BC			mg/l		
BD			mg/l		
BE	48,5	0,2	mg/l	98%	-0,73
BF	54,2	4,9	mg/l	109%	2,74
BG	51,3	10,3	mg/l	103%	0,98
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	50,1 \pm 0,9	50,1 \pm 0,7	mg/l		
Recov. \pm CI(99%)	100,9 \pm 1,9	100,8 \pm 1,4	%		
SD between labs	2,4	1,7	mg/l		
RSD between labs	4,8	3,4	%		
n for calculation	48	46			

Sample N148B

Parameter Calcium

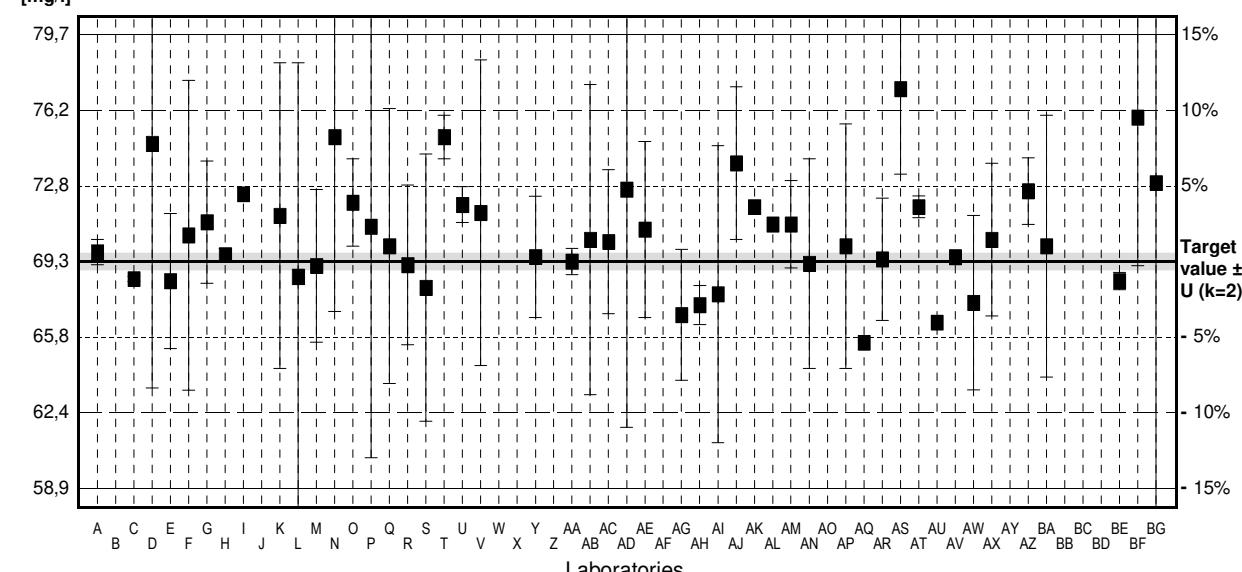
Target value $\pm U$ ($k=2$) 69,3 mg/l \pm 0,4 mg/l
 IFA result $\pm U$ ($k=2$) 73,0 mg/l \pm 4,4 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	69,73	0,58	mg/l	101%	0,19
B			mg/l		
C	68,5	0,115	mg/l	99%	-0,35
D	74,7	11,2	mg/l	108%	2,36
E	68,4	3,1	mg/l	99%	-0,39
F	70,5	7,1	mg/l	102%	0,52
G	71,1	2,8	mg/l	103%	0,79
H	69,6	0,3	mg/l	100%	0,13
I	72,389		mg/l	104%	1,35
J			mg/l		
K	71,4	7	mg/l	103%	0,92
L	68,6	9,8	mg/l	99%	-0,31
M	69,1	3,5	mg/l	100%	-0,09
N	75	8	mg/l	108%	2,49
O	72	2	mg/l	104%	1,18
P	70,9	10,6	mg/l	102%	0,70
Q	70,0	6,3	mg/l	101%	0,31
R	69,14	3,66	mg/l	100%	-0,07
S	68,1	6,13	mg/l	98%	-0,52
T	75,0	1,0	mg/l	108%	2,49
U	71,9	0,82	mg/l	104%	1,14
V	71,53	7,0	mg/l	103%	0,98
W			mg/l		
X			mg/l		
Y	69,51	2,78	mg/l	100%	0,09
Z			mg/l		
AA	69,3	0,6	mg/l	100%	0,00
AB	70,3	7,1	mg/l	101%	0,44
AC	70,2	3,3	mg/l	101%	0,39
AD	72,6	10,9	mg/l	105%	1,44
AE	70,76	4,03	mg/l	102%	0,64
AF			mg/l		
AG	66,85	3,00	mg/l	96%	-1,07
AH	67,3	0,9	mg/l	97%	-0,87
AI	67,8	6,8	mg/l	98%	-0,66
AJ	73,8	3,5	mg/l	106%	1,97
AK	71,8		mg/l	104%	1,09
AL	71,0		mg/l	102%	0,74
AM	71	2	mg/l	102%	0,74
AN	69,2	4,8	mg/l	100%	-0,04
AO			mg/l		

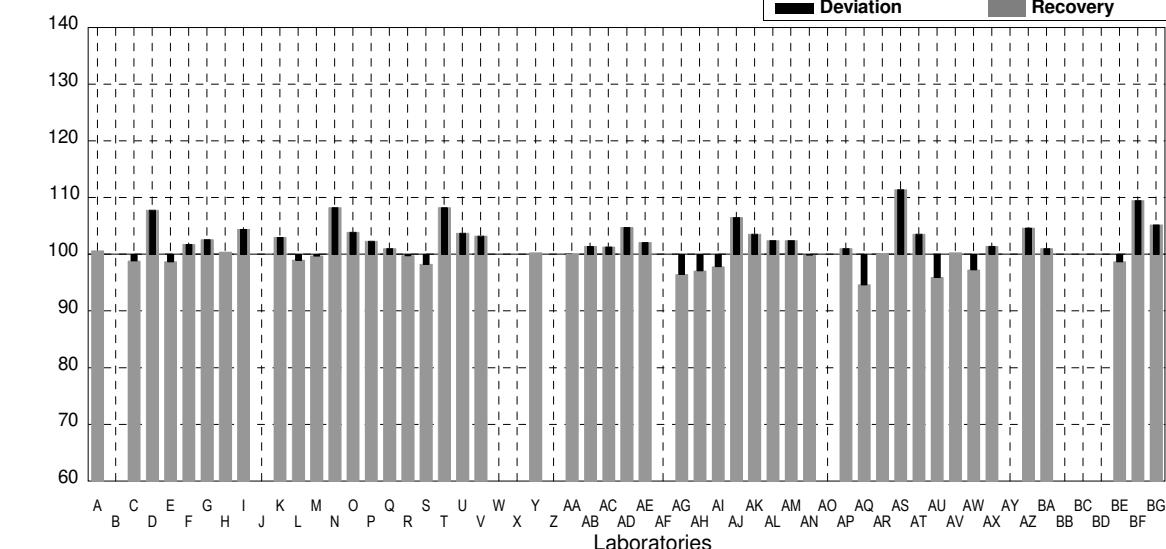
Result

[mg/l]



Recovery

[%]



AP	70,0	5,6	mg/l	101%	0,31
AQ	65,58		mg/l	95%	-1,63
AR	69,4	2,8	mg/l	100%	0,04
AS	77,2	3,9	mg/l	111%	3,45
AT	71,8	0,5	mg/l	104%	1,09
AU	66,5		mg/l	96%	-1,22
AV	69,5		mg/l	100%	0,09
AW	67,41	4,00	mg/l	97%	-0,83
AX	70,3	3,5	mg/l	101%	0,44
AY			mg/l		
AZ	72,52	1,531	mg/l	105%	1,41
BA	70,0	6	mg/l	101%	0,31
BB			mg/l		
BC			mg/l		
BD			mg/l		
BE	68,4	0,4	mg/l	99%	-0,39
BF	75,9	6,8	mg/l	110%	2,89
BG	72,9	14,6	mg/l	105%	1,57
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	70,6 \pm 1,0	70,6 \pm 1,0	mg/l		
Recov. \pm CI(99%)	101,8 \pm 1,4	101,8 \pm 1,4	%		
SD between labs	2,5	2,5	mg/l		
RSD between labs	3,5	3,5	%		
n for calculation	48	48			

Sample N148A

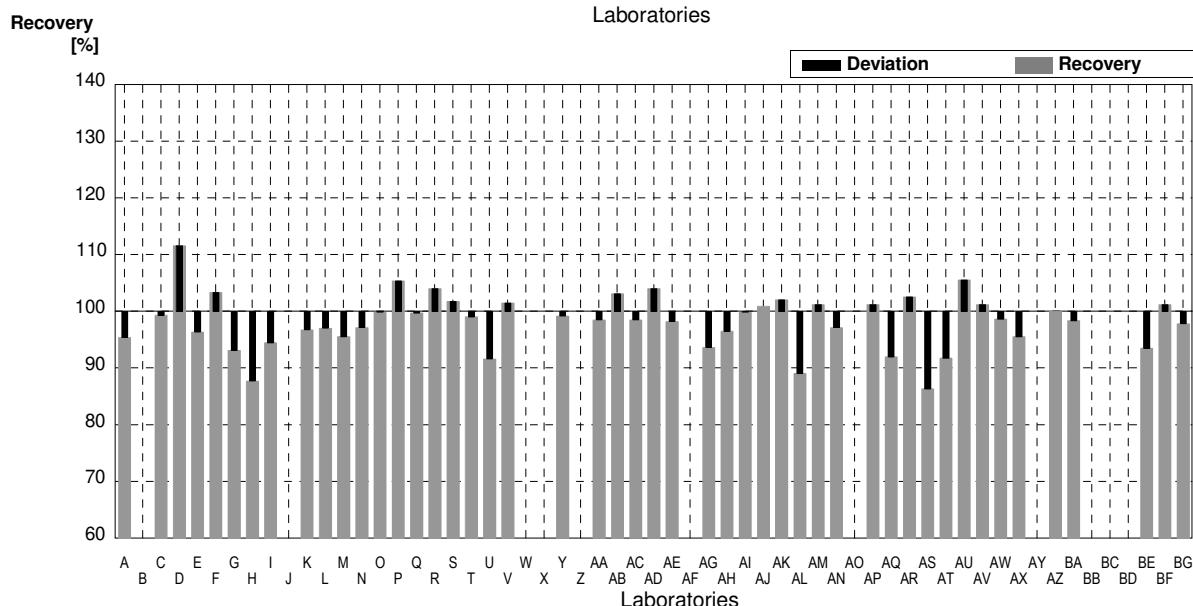
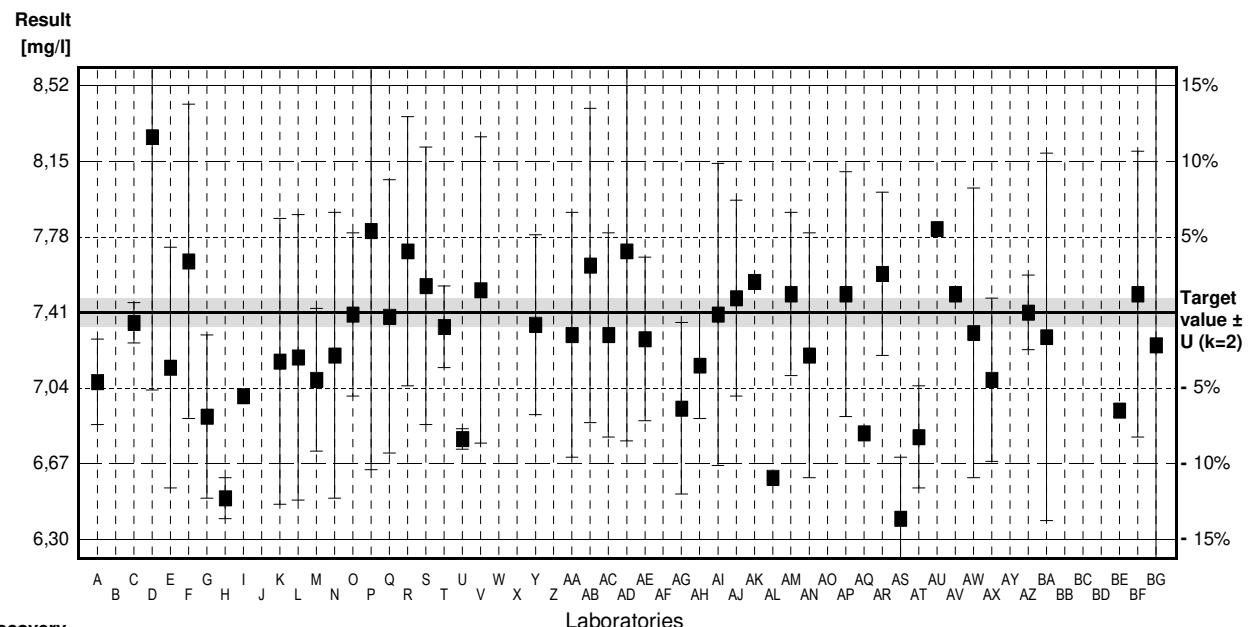
Parameter Magnesium

Target value $\pm U$ ($k=2$) 7,41 mg/l \pm 0,07 mg/l

IFA result $\pm U$ ($k=2$) 6,64 mg/l \pm 0,33 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	7,07	0,21	mg/l	95%	-1,27
B			mg/l		
C	7,36	0,099	mg/l	99%	-0,19
D	8,27 *	1,24	mg/l	112%	3,22
E	7,14	0,59	mg/l	96%	-1,01
F	7,66	0,77	mg/l	103%	0,94
G	6,9	0,4	mg/l	93%	-1,91
H	6,5	0,1	mg/l	88%	-3,41
I	7,0		mg/l	94%	-1,54
J			mg/l		
K	7,17	0,7	mg/l	97%	-0,90
L	7,19	0,70	mg/l	97%	-0,82
M	7,08	0,35	mg/l	96%	-1,24
N	7,2	0,7	mg/l	97%	-0,79
O	7,4	0,4	mg/l	100%	-0,04
P	7,81	1,17	mg/l	105%	1,50
Q	7,39	0,67	mg/l	100%	-0,07
R	7,71	0,66	mg/l	104%	1,12
S	7,54	0,68	mg/l	102%	0,49
T	7,34	0,20	mg/l	99%	-0,26
U	6,79	0,05	mg/l	92%	-2,32
V	7,52	0,75	mg/l	101%	0,41
W			mg/l		
X			mg/l		
Y	7,35	0,441	mg/l	99%	-0,22
Z			mg/l		
AA	7,3	0,6	mg/l	99%	-0,41
AB	7,64	0,77	mg/l	103%	0,86
AC	7,3	0,5	mg/l	99%	-0,41
AD	7,71	0,93	mg/l	104%	1,12
AE	7,28	0,40	mg/l	98%	-0,49
AF			mg/l		
AG	6,94	0,42	mg/l	94%	-1,76
AH	7,15	0,26	mg/l	96%	-0,97
AI	7,40	0,74	mg/l	100%	-0,04
AJ	7,48	0,48	mg/l	101%	0,26
AK	7,56		mg/l	102%	0,56
AL	6,6		mg/l	89%	-3,04
AM	7,5	0,4	mg/l	101%	0,34
AN	7,2	0,6	mg/l	97%	-0,79
AO			mg/l		



AP	7,5	0,6	mg/l	101%	0,34
AQ	6,818		mg/l	92%	-2,22
AR	7,6	0,4	mg/l	103%	0,71
AS	6,4	0,3	mg/l	86%	-3,79
AT	6,8	0,25	mg/l	92%	-2,29
AU	7,82		mg/l	106%	1,54
AV	7,5		mg/l	101%	0,34
AW	7,31	0,71	mg/l	99%	-0,37
AX	7,08	0,4	mg/l	96%	-1,24
AY			mg/l		
AZ	7,41	0,183	mg/l	100%	0,00
BA	7,29	0,9	mg/l	98%	-0,45
BB			mg/l		
BC			mg/l		
BD			mg/l		
BE	6,93	0,03	mg/l	94%	-1,80
BF	7,5	0,7	mg/l	101%	0,34
BG	7,25	1,45	mg/l	98%	-0,60
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	7,28 \pm 0,14	7,26 \pm 0,13	mg/l		
Recov. \pm CI(99%)	98,3 \pm 1,9	98,0 \pm 1,7	%		
SD between labs	0,36	0,33	mg/l		
RSD between labs	4,9	4,5	%		
n for calculation	48	47			

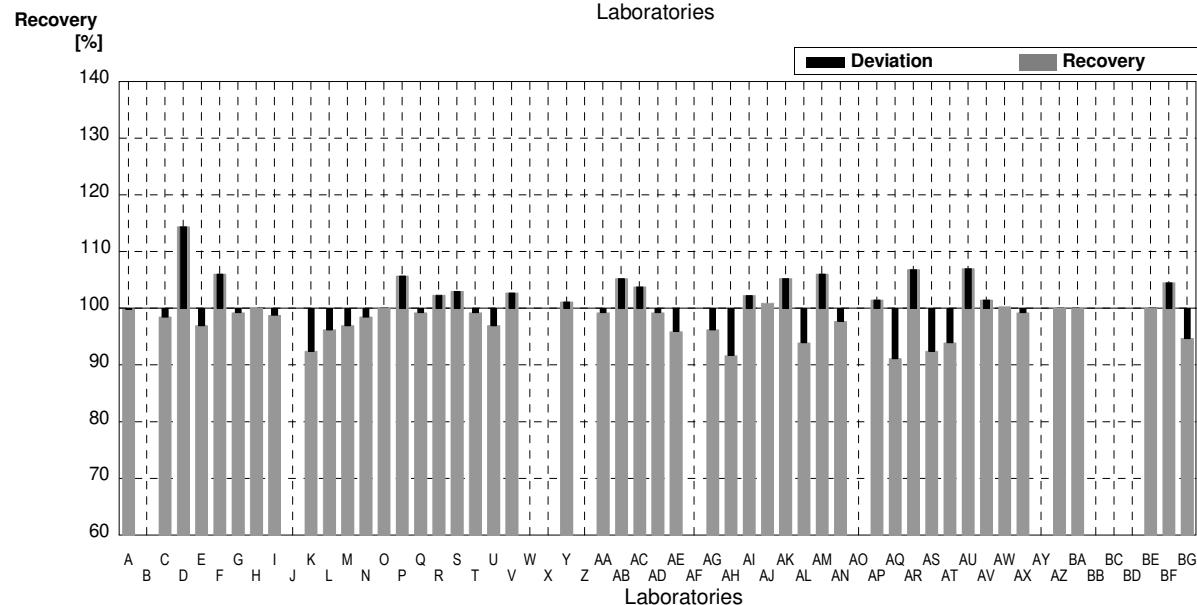
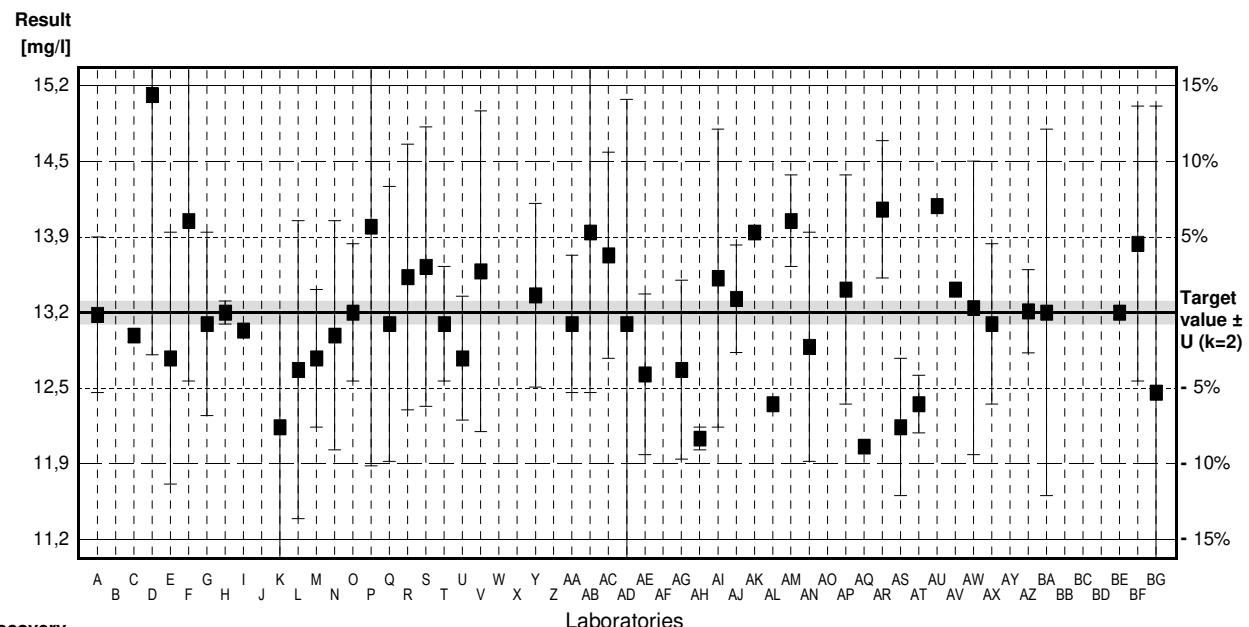
Sample N148B

Parameter Magnesium

Target value $\pm U$ ($k=2$) 13,2 mg/l \pm 0,1 mg/l
 IFA result $\pm U$ ($k=2$) 12,2 mg/l \pm 0,6 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	13,18	0,68	mg/l	100%	-0,04
B			mg/l		
C	13,0	0,058	mg/l	98%	-0,42
D	15,1 *	2,27	mg/l	114%	4,00
E	12,8	1,1	mg/l	97%	-0,84
F	14,0	1,4	mg/l	106%	1,68
G	13,1	0,8	mg/l	99%	-0,21
H	13,2	0,1	mg/l	100%	0,00
I	13,043		mg/l	99%	-0,33
J			mg/l		
K	12,2	1	mg/l	92%	-2,10
L	12,7	1,3	mg/l	96%	-1,05
M	12,8	0,6	mg/l	97%	-0,84
N	13	1	mg/l	98%	-0,42
O	13,2	0,6	mg/l	100%	0,00
P	13,95	2,09	mg/l	106%	1,58
Q	13,1	1,2	mg/l	99%	-0,21
R	13,51	1,16	mg/l	102%	0,65
S	13,6	1,22	mg/l	103%	0,84
T	13,1	0,5	mg/l	99%	-0,21
U	12,8	0,54	mg/l	97%	-0,84
V	13,56	1,4	mg/l	103%	0,76
W			mg/l		
X			mg/l		
Y	13,35	0,801	mg/l	101%	0,32
Z			mg/l		
AA	13,1	0,6	mg/l	99%	-0,21
AB	13,9	1,4	mg/l	105%	1,47
AC	13,7	0,9	mg/l	104%	1,05
AD	13,1	1,96	mg/l	99%	-0,21
AE	12,66	0,70	mg/l	96%	-1,14
AF			mg/l		
AG	12,70	0,78	mg/l	96%	-1,05
AH	12,1	0,1	mg/l	92%	-2,31
AI	13,5	1,3	mg/l	102%	0,63
AJ	13,32	0,47	mg/l	101%	0,25
AK	13,9		mg/l	105%	1,47
AL	12,4		mg/l	94%	-1,68
AM	14	0,4	mg/l	106%	1,68
AN	12,9	1,0	mg/l	98%	-0,63
AO			mg/l		



AP	13,4	1,0	mg/l	102%	0,42
AQ	12,03		mg/l	91%	-2,46
AR	14,1	0,6	mg/l	107%	1,89
AS	12,2	0,6	mg/l	92%	-2,10
AT	12,4	0,25	mg/l	94%	-1,68
AU	14,13		mg/l	107%	1,96
AV	13,4		mg/l	102%	0,42
AW	13,24	1,28	mg/l	100%	0,08
AX	13,1	0,7	mg/l	99%	-0,21
AY			mg/l		
AZ	13,21	0,364	mg/l	100%	0,02
BA	13,2	1,6	mg/l	100%	0,00
BB			mg/l		
BC			mg/l		
BD			mg/l		
BE	13,2	0,05	mg/l	100%	0,00
BF	13,8	1,2	mg/l	105%	1,26
BG	12,5	2,50	mg/l	95%	-1,47
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	13,2 \pm 0,2	13,2 \pm 0,2	mg/l		
Recov. \pm CI(99%)	100,0 \pm 1,8	99,7 \pm 1,6	%		
SD between labs	0,6	0,5	mg/l		
RSD between labs	4,6	4,1	%		
n for calculation	48	47			

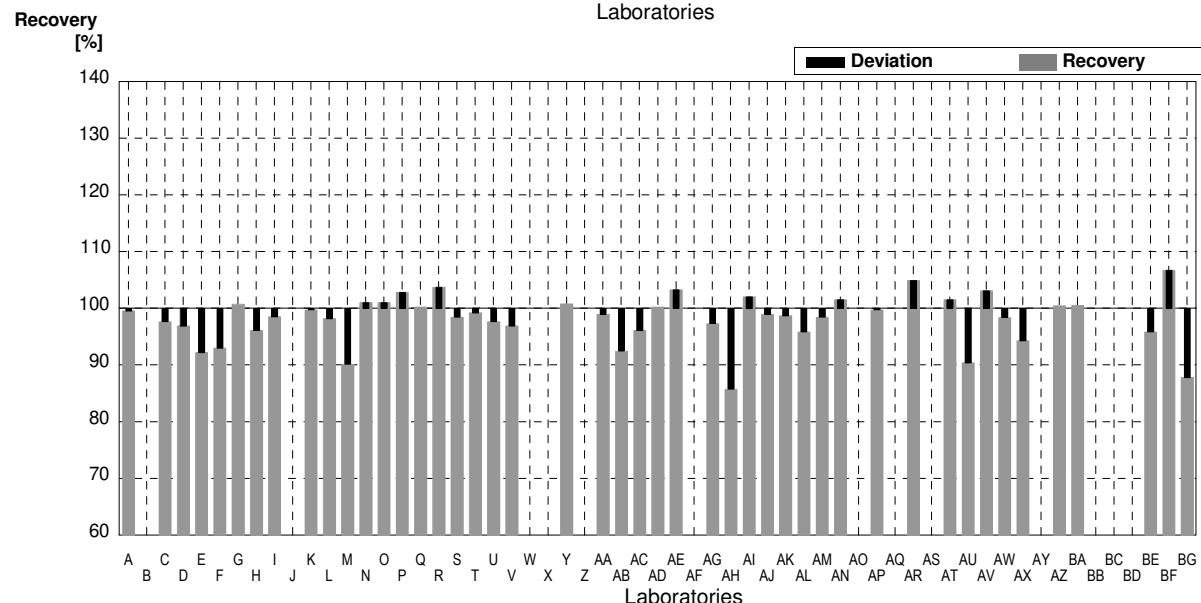
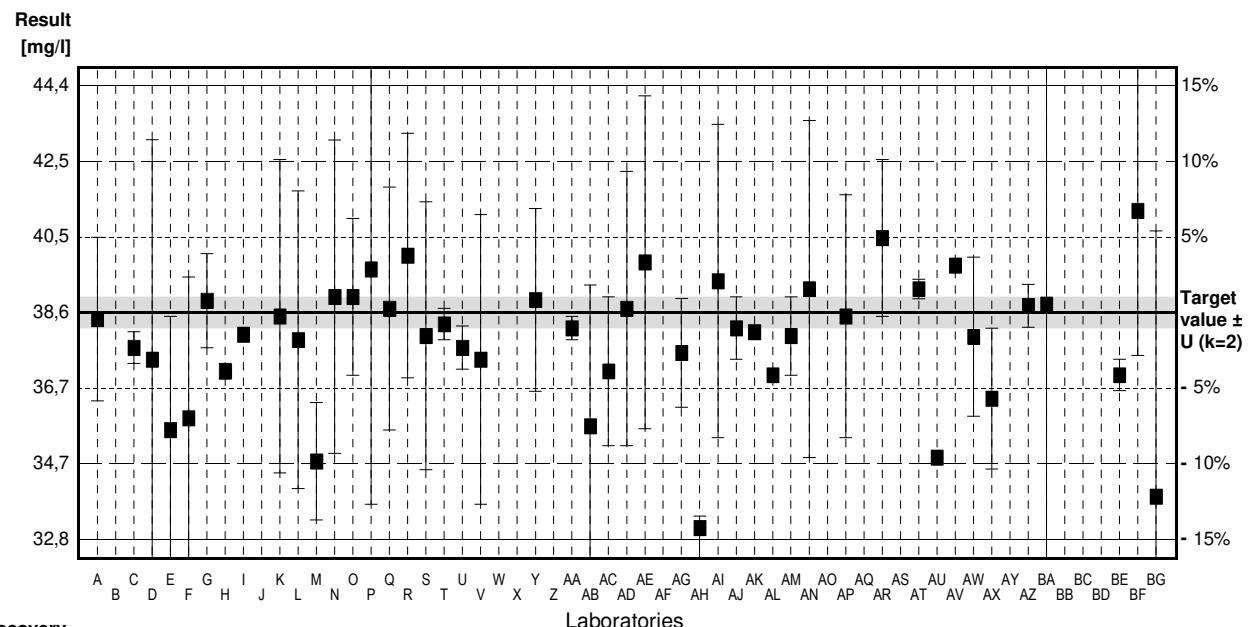
Sample N148A

Parameter Sodium

Target value $\pm U$ ($k=2$) 38,6 mg/l \pm 0,4 mg/l
 IFA result $\pm U$ ($k=2$) 41,3 mg/l \pm 2,9 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	38,43	2,09	mg/l	100%	-0,13
B			mg/l		
C	37,7	0,404	mg/l	98%	-0,69
D	37,4	5,61	mg/l	97%	-0,91
E	35,6	2,9	mg/l	92%	-2,29
F	35,9	3,6	mg/l	93%	-2,06
G	38,9	1,2	mg/l	101%	0,23
H	37,1	0,2	mg/l	96%	-1,14
I	38,035		mg/l	99%	-0,43
J			mg/l		
K	38,5	4	mg/l	100%	-0,08
L	37,9	3,8	mg/l	98%	-0,53
M	34,8	1,5	mg/l	90%	-2,90
N	39	4	mg/l	101%	0,30
O	39	2	mg/l	101%	0,30
P	39,7	6,0	mg/l	103%	0,84
Q	38,7	3,1	mg/l	100%	0,08
R	40,05	3,12	mg/l	104%	1,10
S	38,0	3,42	mg/l	98%	-0,46
T	38,3	0,4	mg/l	99%	-0,23
U	37,7	0,55	mg/l	98%	-0,69
V	37,40	3,7	mg/l	97%	-0,91
W			mg/l		
X			mg/l		
Y	38,92	2,335	mg/l	101%	0,24
Z			mg/l		
AA	38,2	0,3	mg/l	99%	-0,30
AB	35,7	3,6	mg/l	92%	-2,21
AC	37,1	1,9	mg/l	96%	-1,14
AD	38,7	3,5	mg/l	100%	0,08
AE	39,88	4,25	mg/l	103%	0,98
AF			mg/l		
AG	37,57	1,39	mg/l	97%	-0,78
AH	33,1 *	0,3	mg/l	86%	-4,19
AI	39,4	4,0	mg/l	102%	0,61
AJ	38,2	0,8	mg/l	99%	-0,30
AK	38,1		mg/l	99%	-0,38
AL	37,0		mg/l	96%	-1,22
AM	38	1	mg/l	98%	-0,46
AN	39,2	4,3	mg/l	102%	0,46
AO			mg/l		



AP	38,5	3,1	mg/l	100%	-0,08
AQ			mg/l		
AR	40,5	2,0	mg/l	105%	1,45
AS			mg/l		
AT	39,2	0,25	mg/l	102%	0,46
AU	34,9		mg/l	90%	-2,82
AV	39,8		mg/l	103%	0,91
AW	37,98	2,03	mg/l	98%	-0,47
AX	36,4	1,8	mg/l	94%	-1,68
AY			mg/l		
AZ	38,77	0,545	mg/l	100%	0,13
BA	38,8	6	mg/l	101%	0,15
BB			mg/l		
BC			mg/l		
BD			mg/l		
BE	37	0,4	mg/l	96%	-1,22
BF	41,2	3,7	mg/l	107%	1,98
BG	33,9 *	6,78	mg/l	88%	-3,58
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	37,9 \pm 0,7	38,1 \pm 0,6	mg/l		
Recov. \pm CI(99%)	98,2 \pm 1,7	98,7 \pm 1,5	%		
SD between labs	1,7	1,4	mg/l		
RSD between labs	4,4	3,7	%		
n for calculation	46	44			

Sample N148B

Parameter Sodium

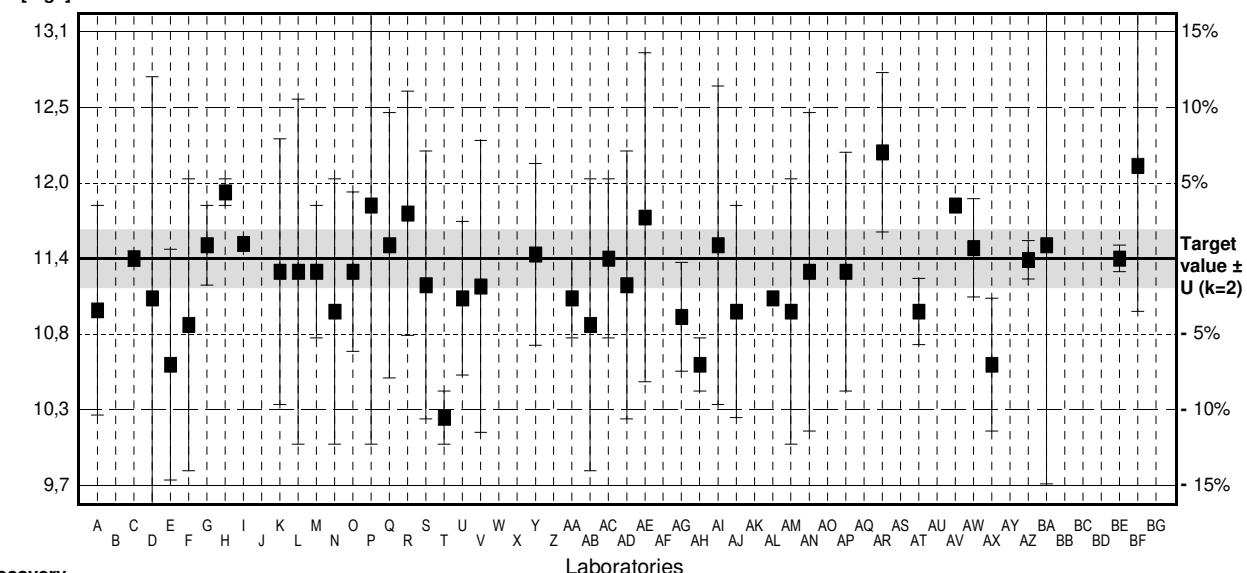
Target value $\pm U$ ($k=2$) 11,4 mg/l \pm 0,2 mg/l
 IFA result $\pm U$ ($k=2$) 12,3 mg/l \pm 0,9 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	11,01	0,79	mg/l	97%	-1,01
B			mg/l		
C	11,4	0,058	mg/l	100%	0,00
D	11,1	1,67	mg/l	97%	-0,77
E	10,6	0,87	mg/l	93%	-2,06
F	10,9	1,1	mg/l	96%	-1,29
G	11,5	0,3	mg/l	101%	0,26
H	11,9	0,1	mg/l	104%	1,29
I	11,511		mg/l	101%	0,29
J			mg/l		
K	11,3	1	mg/l	99%	-0,26
L	11,3	1,3	mg/l	99%	-0,26
M	11,3	0,5	mg/l	99%	-0,26
N	11	1	mg/l	96%	-1,03
O	11,3	0,6	mg/l	99%	-0,26
P	11,8	1,8	mg/l	104%	1,03
Q	11,5	1,0	mg/l	101%	0,26
R	11,74	0,92	mg/l	103%	0,88
S	11,2	1,01	mg/l	98%	-0,52
T	10,2 *	0,2	mg/l	89%	-3,10
U	11,1	0,58	mg/l	97%	-0,77
V	11,19	1,1	mg/l	98%	-0,54
W			mg/l		
X			mg/l		
Y	11,43	0,686	mg/l	100%	0,08
Z			mg/l		
AA	11,1	0,3	mg/l	97%	-0,77
AB	10,9	1,1	mg/l	96%	-1,29
AC	11,4	0,6	mg/l	100%	0,00
AD	11,2	1,01	mg/l	98%	-0,52
AE	11,71	1,24	mg/l	103%	0,80
AF			mg/l		
AG	10,96	0,41	mg/l	96%	-1,14
AH	10,6	0,2	mg/l	93%	-2,06
AI	11,5	1,2	mg/l	101%	0,26
AJ	11,0	0,8	mg/l	96%	-1,03
AK	9,35 *		mg/l	82%	-5,29
AL	11,1		mg/l	97%	-0,77
AM	11	1	mg/l	96%	-1,03
AN	11,3	1,2	mg/l	99%	-0,26
AO			mg/l		

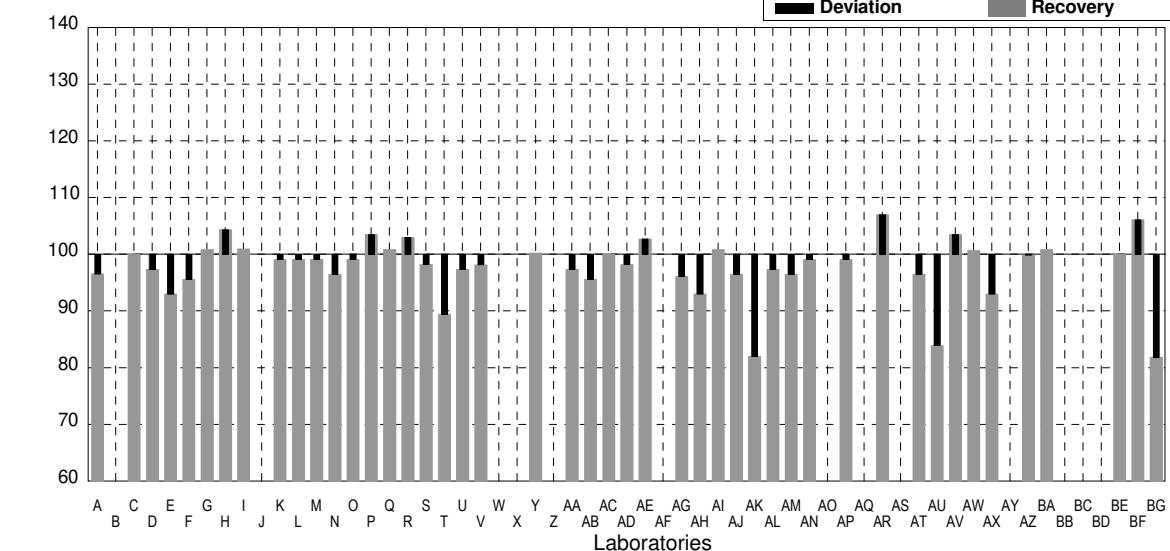
Result

[mg/l]



Recovery

[%]



AP	11,3	0,9	mg/l	99%	-0,26
AQ			mg/l		
AR	12,2	0,6	mg/l	107%	2,06
AS			mg/l		
AT	11,0	0,25	mg/l	96%	-1,03
AU	9,57 *		mg/l	84%	-4,72
AV	11,8		mg/l	104%	1,03
AW	11,48	0,37	mg/l	101%	0,21
AX	10,6	0,5	mg/l	93%	-2,06
AY			mg/l		
AZ	11,39	0,144	mg/l	100%	-0,03
BA	11,5	1,8	mg/l	101%	0,26
BB			mg/l		
BC			mg/l		
BD			mg/l		
BE	11,4	0,1	mg/l	100%	0,00
BF	12,1	1,1	mg/l	106%	1,81
BG	9,33 *	1,87	mg/l	82%	-5,34
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	11,2 \pm 0,2	11,3 \pm 0,2	mg/l		
Recov. \pm CI(99%)	97,8 \pm 2,1	99,1 \pm 1,3	%		
SD between labs	0,6	0,4	mg/l		
RSD between labs	5,4	3,2	%		
n for calculation	46	42			

Sample N148A

Parameter Potassium

Target value $\pm U$ ($k=2$) 7,66 mg/l \pm 0,05 mg/l

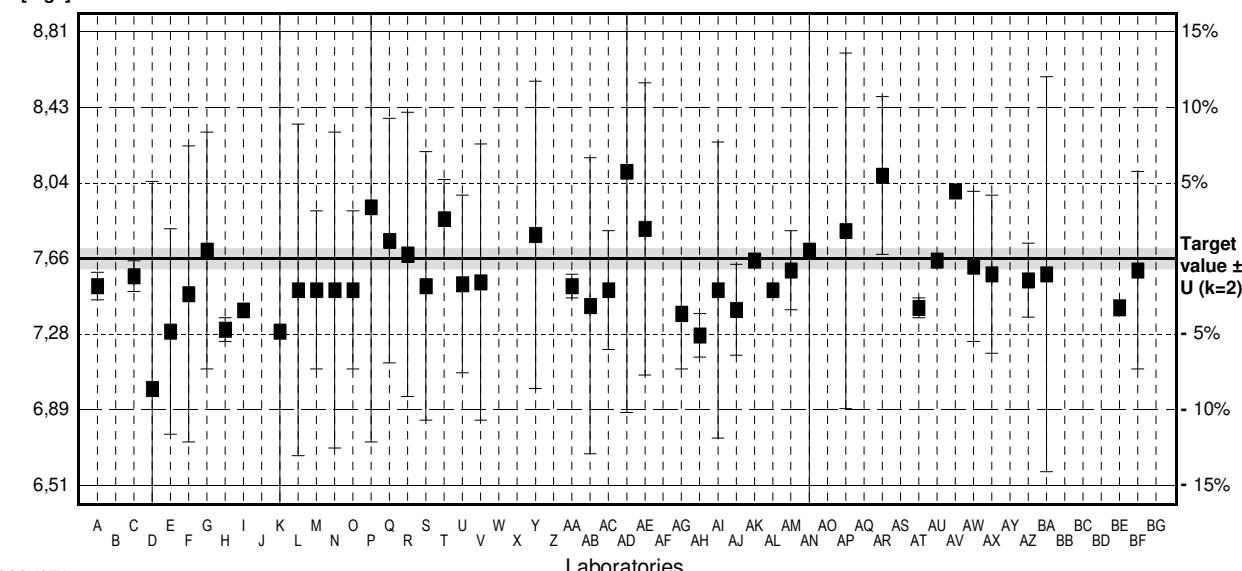
IFA result $\pm U$ ($k=2$) 7,86 mg/l \pm 0,47 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	7,52	0,07	mg/l	98%	-0,38
B			mg/l		
C	7,57	0,078	mg/l	99%	-0,24
D	7,0	1,05	mg/l	91%	-1,80
E	7,29	0,52	mg/l	95%	-1,01
F	7,48	0,75	mg/l	98%	-0,49
G	7,7	0,6	mg/l	101%	0,11
H	7,3	0,06	mg/l	95%	-0,98
I	7,398		mg/l	97%	-0,71
J			mg/l		
K	7,29	7	mg/l	95%	-1,01
L	7,50	0,84	mg/l	98%	-0,44
M	7,5	0,4	mg/l	98%	-0,44
N	7,5	0,8	mg/l	98%	-0,44
O	7,5	0,4	mg/l	98%	-0,44
P	7,92	1,19	mg/l	103%	0,71
Q	7,75	0,62	mg/l	101%	0,24
R	7,68	0,72	mg/l	100%	0,05
S	7,52	0,68	mg/l	98%	-0,38
T	7,86	0,20	mg/l	103%	0,54
U	7,53	0,45	mg/l	98%	-0,35
V	7,54	0,7	mg/l	98%	-0,33
W			mg/l		
X			mg/l		
Y	7,78	0,778	mg/l	102%	0,33
Z			mg/l		
AA	7,52	0,06	mg/l	98%	-0,38
AB	7,42	0,75	mg/l	97%	-0,65
AC	7,5	0,3	mg/l	98%	-0,44
AD	8,10 *	1,22	mg/l	106%	1,20
AE	7,81	0,74	mg/l	102%	0,41
AF			mg/l		
AG	7,38	0,28	mg/l	96%	-0,76
AH	7,27	0,11	mg/l	95%	-1,06
AI	7,5	0,75	mg/l	98%	-0,44
AJ	7,40	0,23	mg/l	97%	-0,71
AK	7,65		mg/l	100%	-0,03
AL	7,5		mg/l	98%	-0,44
AM	7,6	0,2	mg/l	99%	-0,16
AN	7,7	1,2	mg/l	101%	0,11
AO			mg/l		

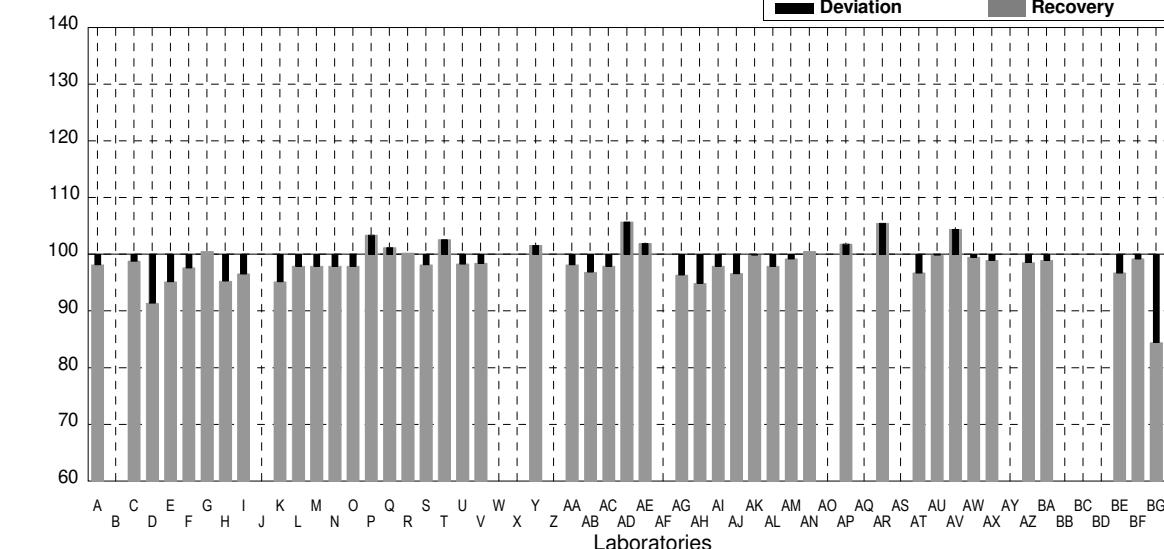
Result

[mg/l]



Recovery

[%]



AP	7,8	0,9	mg/l	102%	0,38
AQ			mg/l		
AR	8,08 *	0,40	mg/l	105%	1,14
AS			mg/l		
AT	7,41	0,05	mg/l	97%	-0,68
AU	7,65		mg/l	100%	-0,03
AV	8,0		mg/l	104%	0,92
AW	7,62	0,38	mg/l	99%	-0,11
AX	7,58	0,4	mg/l	99%	-0,22
AY			mg/l		
AZ	7,55	0,187	mg/l	99%	-0,30
BA	7,58	1	mg/l	99%	-0,22
BB			mg/l		
BC			mg/l		
BD			mg/l		
BE	7,41	0,04	mg/l	97%	-0,68
BF	7,6	0,5	mg/l	99%	-0,16
BG	6,47 *	1,29	mg/l	84%	-3,24
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	$7,55 \pm 0,11$	$7,55 \pm 0,08$	mg/l		
Recov. \pm CI(99%)	$98,5 \pm 1,4$	$98,5 \pm 1,0$	%		
SD between labs	0,27	0,19	mg/l		
RSD between labs	3,6	2,5	%		
n for calculation	46	43			

Sample N148B

Parameter Potassium

Target value $\pm U$ ($k=2$) 1,88 mg/l \pm 0,05 mg/l

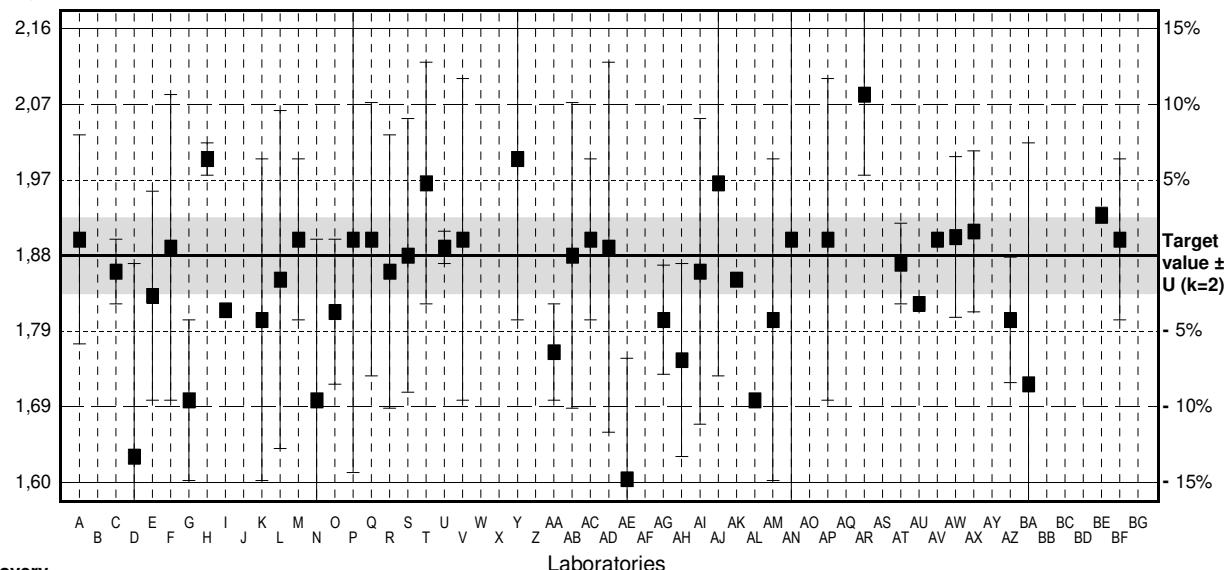
IFA result $\pm U$ ($k=2$) 2,02 mg/l \pm 0,12 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1,90	0,13	mg/l	101%	0,22
B			mg/l		
C	1,86	0,040	mg/l	99%	-0,22
D	1,63 *	0,24	mg/l	87%	-2,77
E	1,83	0,13	mg/l	97%	-0,55
F	1,89	0,19	mg/l	101%	0,11
G	1,7	0,1	mg/l	90%	-1,99
H	2	0,02	mg/l	106%	1,33
I	1,812		mg/l	96%	-0,75
J			mg/l		
K	1,8	0,2	mg/l	96%	-0,89
L	1,85	0,21	mg/l	98%	-0,33
M	1,9	0,1	mg/l	101%	0,22
N	1,7	0,2	mg/l	90%	-1,99
O	1,81	0,09	mg/l	96%	-0,78
P	1,90	0,29	mg/l	101%	0,22
Q	1,90	0,17	mg/l	101%	0,22
R	1,86	0,17	mg/l	99%	-0,22
S	1,88	0,17	mg/l	100%	0,00
T	1,97	0,15	mg/l	105%	1,00
U	1,89	0,02	mg/l	101%	0,11
V	1,90	0,2	mg/l	101%	0,22
W			mg/l		
X			mg/l		
Y	2	0,2	mg/l	106%	1,33
Z			mg/l		
AA	1,76	0,06	mg/l	94%	-1,33
AB	1,88	0,19	mg/l	100%	0,00
AC	1,9	0,1	mg/l	101%	0,22
AD	1,89	0,23	mg/l	101%	0,11
AE	1,602 *	0,15	mg/l	85%	-3,08
AF			mg/l		
AG	1,80	0,068	mg/l	96%	-0,89
AH	1,75	0,12	mg/l	93%	-1,44
AI	1,86	0,19	mg/l	99%	-0,22
AJ	1,97	0,24	mg/l	105%	1,00
AK	1,85		mg/l	98%	-0,33
AL	1,7		mg/l	90%	-1,99
AM	1,8	0,2	mg/l	96%	-0,89
AN	1,9	0,4	mg/l	101%	0,22
AO			mg/l		

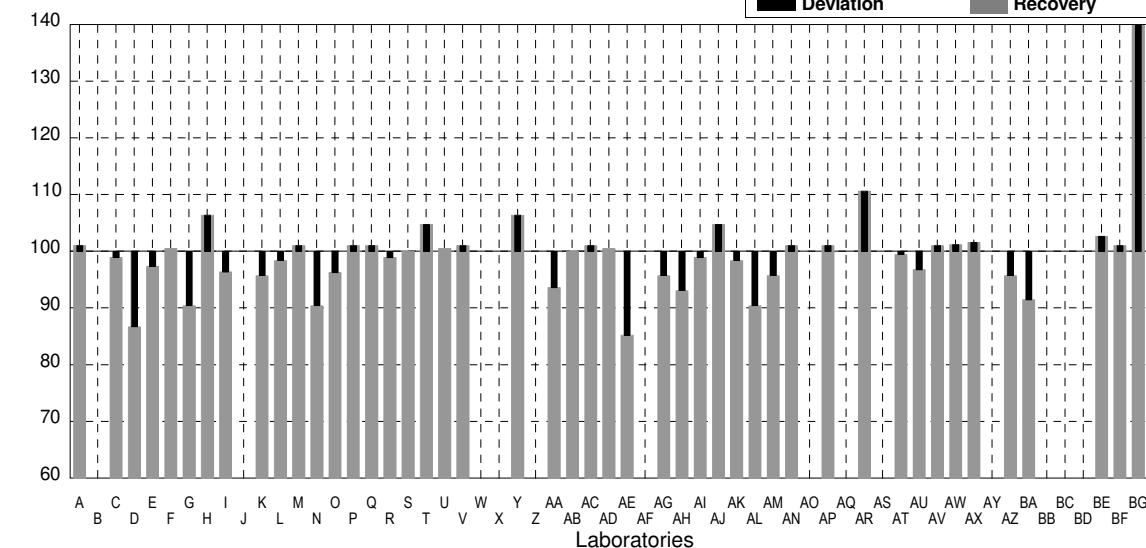
Result

[mg/l]



Recovery

[%]



AP	1,9	0,2	mg/l	101%	0,22
AQ			mg/l		
AR	2,08 *	0,10	mg/l	111%	2,22
AS			mg/l		
AT	1,87	0,05	mg/l	99%	-0,11
AU	1,82		mg/l	97%	-0,66
AV	1,9		mg/l	101%	0,22
AW	1,903	0,10	mg/l	101%	0,25
AX	1,91	0,1	mg/l	102%	0,33
AY			mg/l		
AZ	1,80	0,078	mg/l	96%	-0,89
BA	1,72	0,3	mg/l	91%	-1,77
BB			mg/l		
BC			mg/l		
BD			mg/l		
BE	1,93	0,01	mg/l	103%	0,55
BF	1,9	0,1	mg/l	101%	0,22
BG	2,63 *	0,53	mg/l	140%	8,31
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	1,87 ± 0,06	1,86 ± 0,03	mg/l		
Recov. ± CI(99%)	99,5 ± 3,1	98,9 ± 1,7	%		
SD between labs	0,15	0,08	mg/l		
RSD between labs	7,9	4,1	%		
n for calculation	46	42			

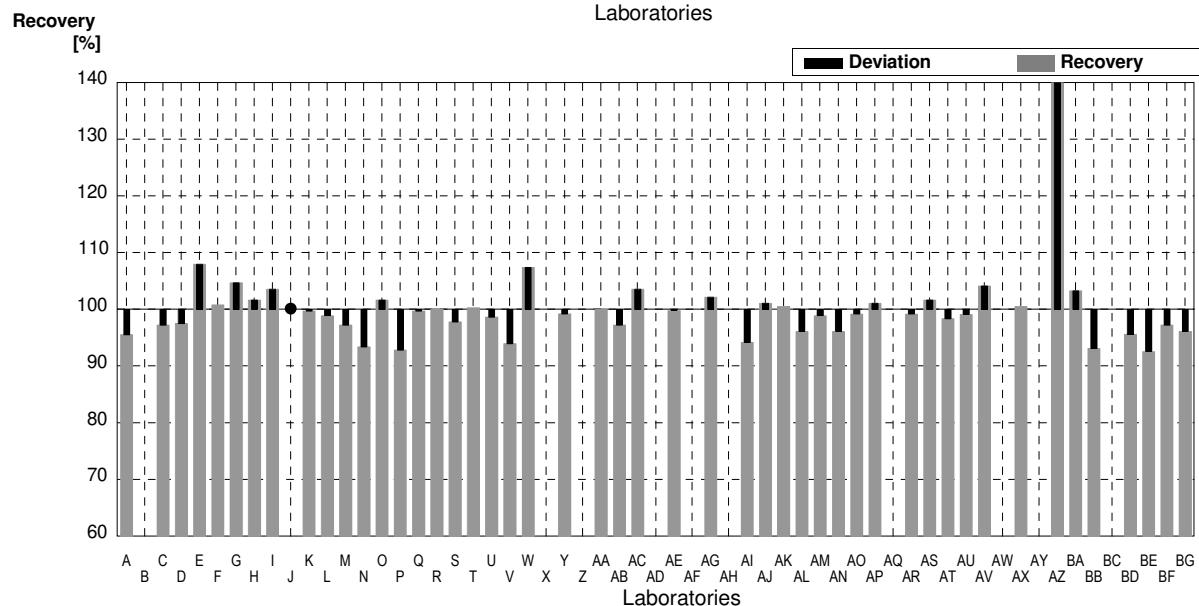
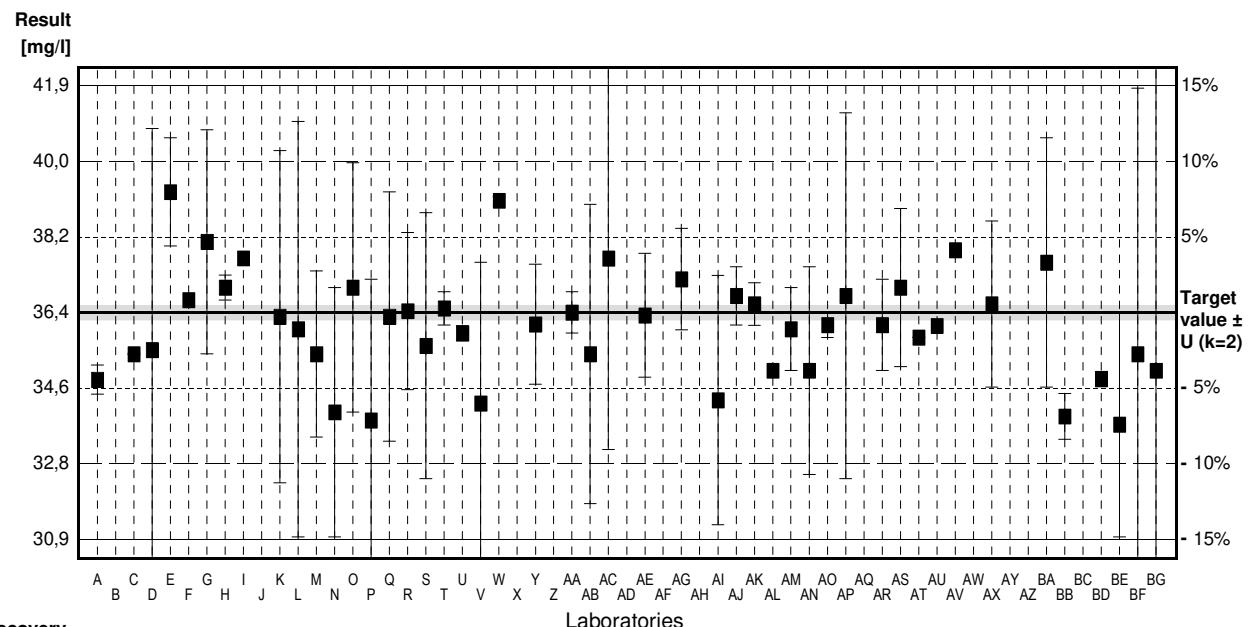
Sample N148A

Parameter Nitrate

Target value $\pm U$ ($k=2$) 36,4 mg/l \pm 0,2 mg/l
 IFA result $\pm U$ ($k=2$) 35,9 mg/l \pm 1,8 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	34,78	0,35	mg/l	96%	-1,27
B			mg/l		
C	35,4	0,017	mg/l	97%	-0,78
D	35,5	5,33	mg/l	98%	-0,71
E	39,3	1,3	mg/l	108%	2,28
F	36,7		mg/l	101%	0,24
G	38,1	2,7	mg/l	105%	1,33
H	37	0,3	mg/l	102%	0,47
I	37,703		mg/l	104%	1,02
J	>30		mg/l	*	
K	36,3	4	mg/l	100%	-0,08
L	36	5	mg/l	99%	-0,31
M	35,4	2	mg/l	97%	-0,78
N	34	3	mg/l	93%	-1,88
O	37	3	mg/l	102%	0,47
P	33,8	3,4	mg/l	93%	-2,04
Q	36,3	3,0	mg/l	100%	-0,08
R	36,433	1,89	mg/l	100%	0,03
S	35,6	3,20	mg/l	98%	-0,63
T	36,5	0,4	mg/l	100%	0,08
U	35,9	0,18	mg/l	99%	-0,39
V	34,21	3,4	mg/l	94%	-1,72
W	39,09	0,10	mg/l	107%	2,11
X			mg/l		
Y	36,114	1,4446	mg/l	99%	-0,22
Z			mg/l		
AA	36,4	0,5	mg/l	100%	0,00
AB	35,4	3,6	mg/l	97%	-0,78
AC	37,7	4,6	mg/l	104%	1,02
AD			mg/l		
AE	36,33	1,49	mg/l	100%	-0,05
AF			mg/l		
AG	37,2	1,22	mg/l	102%	0,63
AH			mg/l		
AI	34,29	3,00	mg/l	94%	-1,66
AJ	36,8	0,7	mg/l	101%	0,31
AK	36,6	0,51	mg/l	101%	0,16
AL	35,0		mg/l	96%	-1,10
AM	36	1	mg/l	99%	-0,31
AN	35,0	2,5	mg/l	96%	-1,10
AO	36,1	0,3	mg/l	99%	-0,24



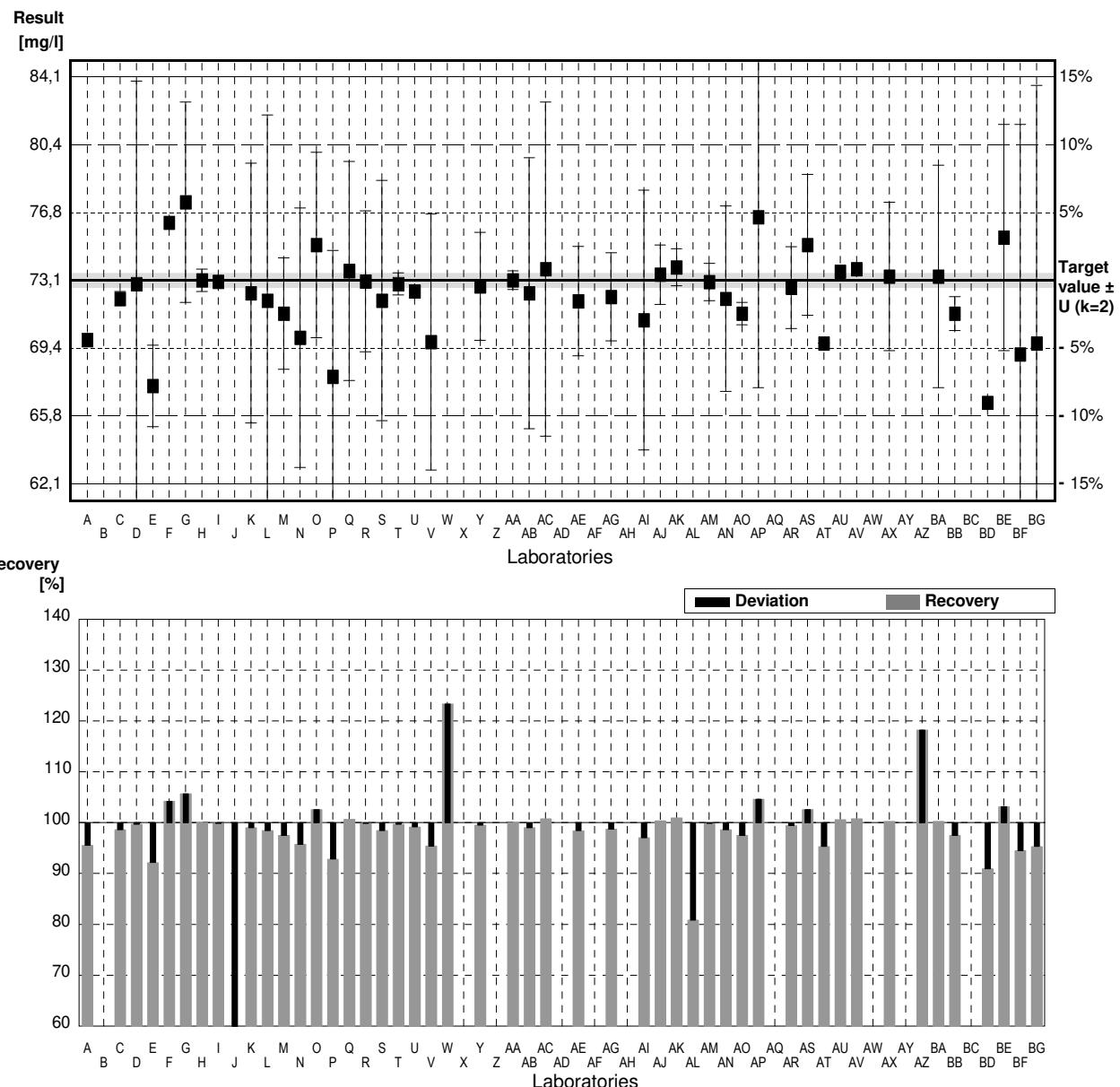
AP	36,8	4,4	mg/l	101%	0,31
AQ			mg/l		
AR	36,1	1,1	mg/l	99%	-0,24
AS	37	1,9	mg/l	102%	0,47
AT	35,8	0,003	mg/l	98%	-0,47
AU	36,08		mg/l	99%	-0,25
AV	37,9		mg/l	104%	1,18
AW			mg/l		
AX	36,6	2	mg/l	101%	0,16
AY			mg/l		
AZ	51,48 *	2,269	mg/l	141%	11,84
BA	37,6	3	mg/l	103%	0,94
BB	33,9	0,55	mg/l	93%	-1,96
BC			mg/l		
BD	34,8		mg/l	96%	-1,26
BE	33,7	2,7	mg/l	93%	-2,12
BF	35,4	6,4	mg/l	97%	-0,78
BG	35,0	7,0	mg/l	96%	-1,10
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	36,4 \pm 1,0	36,1 \pm 0,5	mg/l		
Recov. \pm CI(99%)	100,1 \pm 2,7	99,2 \pm 1,4	%		
SD between labs	2,6	1,3	mg/l		
RSD between labs	7,0	3,6	%		
n for calculation	48	47			

Sample N148B

Parameter Nitrate

Target value $\pm U$ ($k=2$) 73,1 mg/l \pm 0,4 mg/l
 IFA result $\pm U$ ($k=2$) 71,3 mg/l \pm 3,6 mg/l

Stability test					
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	69,87	0,36	mg/l	96%	-1,26
B			mg/l		
C	72,1	0,384	mg/l	99%	-0,39
D	72,9	10,94	mg/l	100%	-0,08
E	67,4 *	2,2	mg/l	92%	-2,23
F	76,2		mg/l	104%	1,21
G	77,3 *	5,4	mg/l	106%	1,64
H	73,1	0,6	mg/l	100%	0,00
I	73,028		mg/l	100%	-0,03
J	26,91 *	6,02	mg/l	37%	-18,05
K	72,4	7	mg/l	99%	-0,27
L	72	10	mg/l	98%	-0,43
M	71,3	3	mg/l	98%	-0,70
N	70	7	mg/l	96%	-1,21
O	75	5	mg/l	103%	0,74
P	67,9 *	6,8	mg/l	93%	-2,03
Q	73,6	5,9	mg/l	101%	0,20
R	73,04	3,8	mg/l	100%	-0,02
S	72,0	6,48	mg/l	98%	-0,43
T	72,9	0,6	mg/l	100%	-0,08
U	72,5	0,35	mg/l	99%	-0,23
V	69,77	6,9	mg/l	95%	-1,30
W	90,19 *	0,10	mg/l	123%	6,68
X			mg/l		
Y	72,768	2,9107	mg/l	100%	-0,13
Z			mg/l		
AA	73,1	0,5	mg/l	100%	0,00
AB	72,4	7,3	mg/l	99%	-0,27
AC	73,7	9,0	mg/l	101%	0,23
AD			mg/l		
AE	71,97	2,95	mg/l	98%	-0,44
AF			mg/l		
AG	72,2	2,38	mg/l	99%	-0,35
AH			mg/l		
AI	70,95	7,0	mg/l	97%	-0,84
AJ	73,4	1,6	mg/l	100%	0,12
AK	73,8	1,0	mg/l	101%	0,27
AL	59,1 *		mg/l	81%	-5,47
AM	73	1	mg/l	100%	-0,04
AN	72,1	5,0	mg/l	99%	-0,39
AO	71,3	0,6	mg/l	98%	-0,70



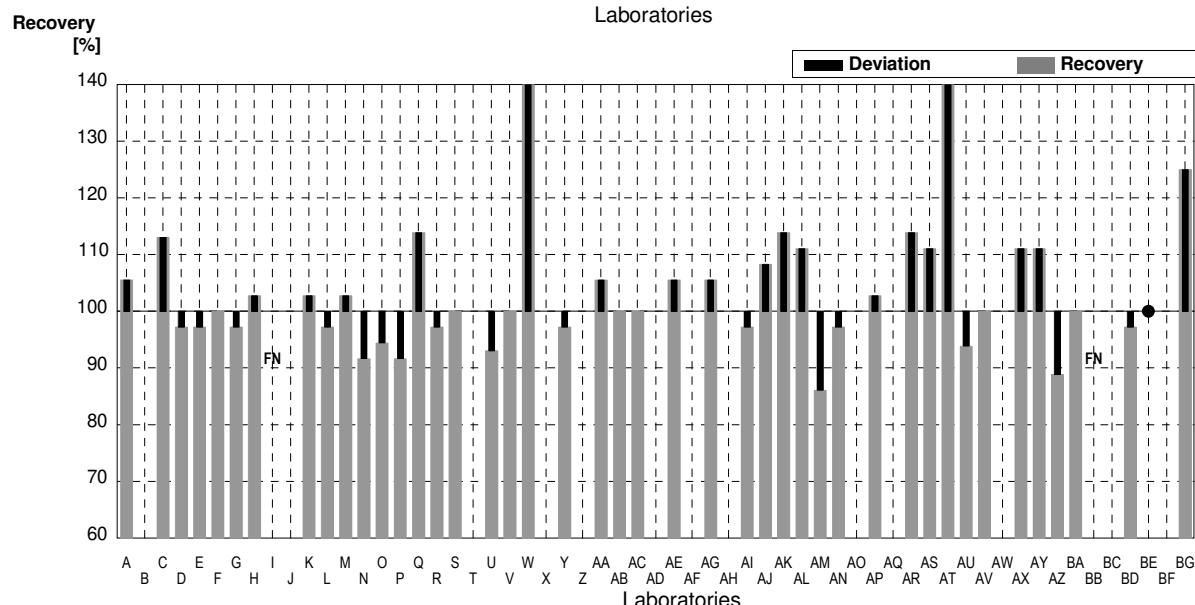
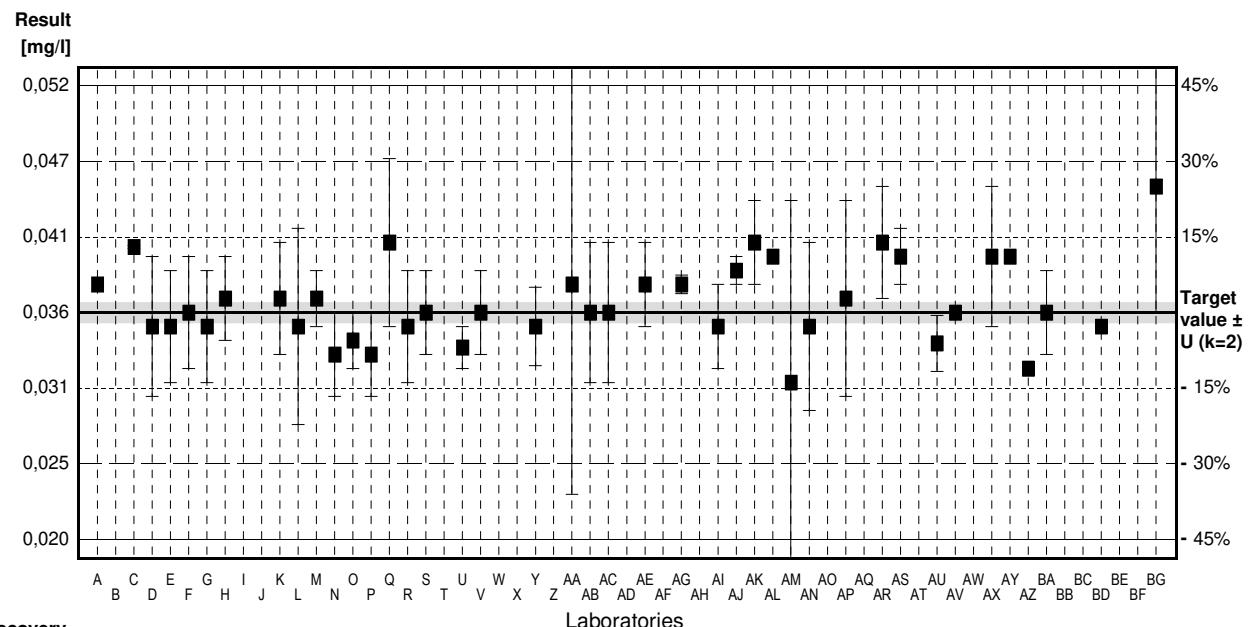
AP	76,5	9,2	mg/l	105%	1,33
AQ			mg/l		
AR	72,7	2,2	mg/l	99%	-0,16
AS	75	3,8	mg/l	103%	0,74
AT	69,7	0,003	mg/l	95%	-1,33
AU	73,57		mg/l	101%	0,18
AV	73,7		mg/l	101%	0,23
AW			mg/l		
AX	73,3	4	mg/l	100%	0,08
AY			mg/l		
AZ	86,44 *	3,036	mg/l	118%	5,21
BA	73,3	6	mg/l	100%	0,08
BB	71,3	0,91	mg/l	98%	-0,70
BC			mg/l		
BD	66,5 *		mg/l	91%	-2,58
BE	75,4	6,1	mg/l	103%	0,90
BF	69,1	12,4	mg/l	95%	-1,56
BG	69,7	13,9	mg/l	95%	-1,33
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	71,8 ± 3,0	72,6 ± 0,7	mg/l		
Recov. ± CI(99%)	98,2 ± 4,1	99,3 ± 1,0	%		
SD between labs	7,9	1,7	mg/l		
RSD between labs	10,9	2,4	%		
n for calculation	49	41			

Sample N148A

Parameter Nitrite

Target value $\pm U$ ($k=2$) 0,036 mg/l \pm 0,001 mg/l
 IFA result $\pm U$ ($k=2$) 0,035 mg/l \pm 0,002 mg/l
 Stability test $\pm U$ ($k=2$) 0,035 mg/l \pm 0,002 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,038	0	mg/l	106%	0,99
B			mg/l		
C	0,0407	0,0001	mg/l	113%	2,33
D	0,035	0,005	mg/l	97%	-0,50
E	0,035	0,004	mg/l	97%	-0,50
F	0,036	0,004	mg/l	100%	0,00
G	0,035	0,004	mg/l	97%	-0,50
H	0,037	0,003	mg/l	103%	0,50
I	<0,02		mg/l	FN	
J			mg/l		
K	0,037	0,004	mg/l	103%	0,50
L	0,035	0,007	mg/l	97%	-0,50
M	0,037	0,002	mg/l	103%	0,50
N	0,033	0,003	mg/l	92%	-1,49
O	0,034	0,002	mg/l	94%	-0,99
P	0,033	0,003	mg/l	92%	-1,49
Q	0,041	0,006	mg/l	114%	2,48
R	0,035	0,004	mg/l	97%	-0,50
S	0,036	0,003	mg/l	100%	0,00
T			mg/l		
U	0,0335	0,0015	mg/l	93%	-1,24
V	0,036	0,003	mg/l	100%	0,00
W	0,10 *	0,05	mg/l	278%	31,75
X			mg/l		
Y	0,035	0,0028	mg/l	97%	-0,50
Z			mg/l		
AA	0,038	0,015	mg/l	106%	0,99
AB	0,036	0,005	mg/l	100%	0,00
AC	0,036	0,005	mg/l	100%	0,00
AD			mg/l		
AE	0,038	0,003	mg/l	106%	0,99
AF			mg/l		
AG	0,038	0,00067	mg/l	106%	0,99
AH			mg/l		
AI	0,035	0,003	mg/l	97%	-0,50
AJ	0,039	0,001	mg/l	108%	1,49
AK	0,041	0,003	mg/l	114%	2,48
AL	0,04		mg/l	111%	1,98
AM	0,031	0,013	mg/l	86%	-2,48
AN	0,035	0,006	mg/l	97%	-0,50
AO			mg/l		



AP	0,037	0,007	mg/l	103%	0,50
AQ			mg/l		
AR	0,041	0,004	mg/l	114%	2,48
AS	0,04	0,002	mg/l	111%	1,98
AT	0,055 *	0,003	mg/l	153%	9,42
AU	0,0338	0,002	mg/l	94%	-1,09
AV	0,036		mg/l	100%	0,00
AW			mg/l		
AX	0,04	0,005	mg/l	111%	1,98
AY	0,04		mg/l	111%	1,98
AZ	0,032		mg/l	89%	-1,98
BA	0,036	0,003	mg/l	100%	0,00
BB	<0,01		mg/l	FN	
BC			mg/l		
BD	0,035		mg/l	97%	-0,50
BE	<0,05		mg/l	*	
BF			mg/l		
BG	0,045	0,009	mg/l	125%	4,46
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	0,039 ± 0,004	0,037 ± 0,001	mg/l		
Recov. ± CI(99%)	107,2 ± 11,9	102,0 ± 3,4	%		
SD between labs	0,010	0,003	mg/l		
RSD between labs	26,9	7,9	%		
n for calculation	43	41			

Sample N148B

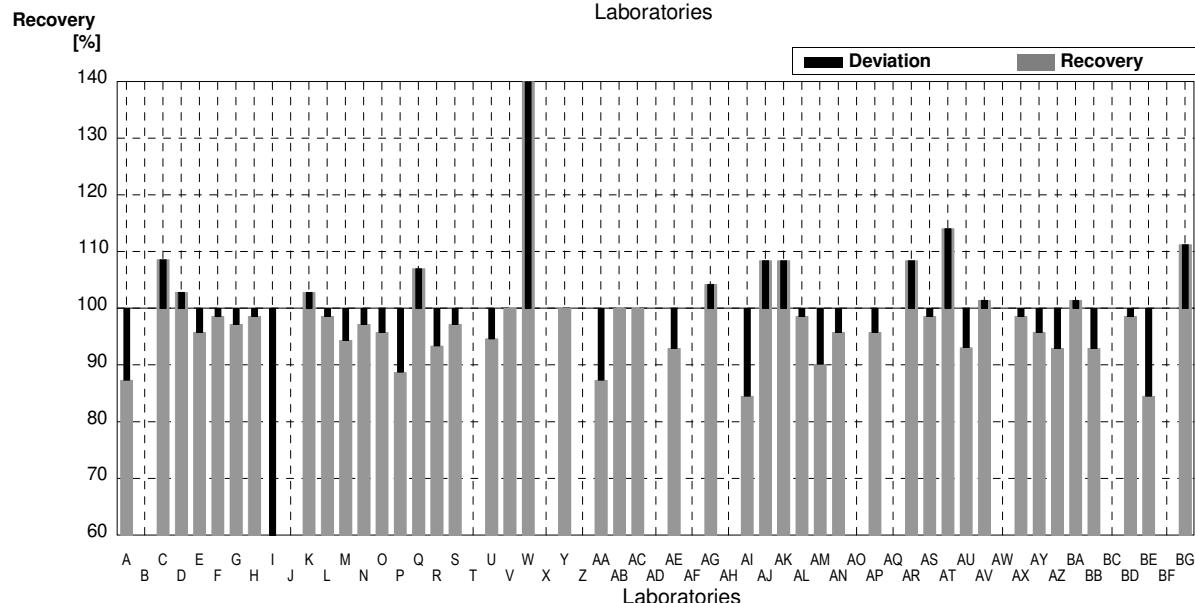
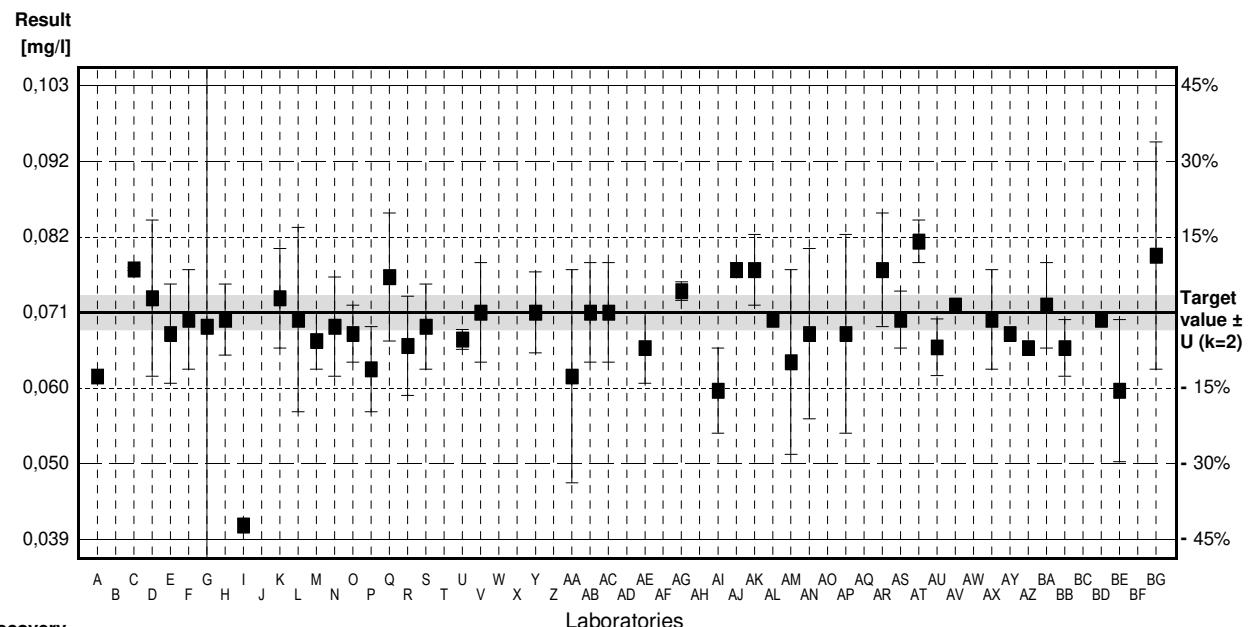
Parameter Nitrite

Target value $\pm U$ ($k=2$) 0,071 mg/l \pm 0,002 mg/l

IFA result $\pm U$ ($k=2$) 0,069 mg/l \pm 0,003 mg/l

Stability test $\pm U$ ($k=2$) 0,069 mg/l \pm 0,003 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,062	0	mg/l	87%	-2,26
B			mg/l		
C	0,0771	0,0002	mg/l	109%	1,53
D	0,073	0,011	mg/l	103%	0,50
E	0,068	0,007	mg/l	96%	-0,75
F	0,070	0,007	mg/l	99%	-0,25
G	0,069	0,077	mg/l	97%	-0,50
H	0,070	0,005	mg/l	99%	-0,25
I	0,041 *		mg/l	58%	-7,55
J			mg/l		
K	0,073	0,007	mg/l	103%	0,50
L	0,070	0,013	mg/l	99%	-0,25
M	0,067	0,004	mg/l	94%	-1,01
N	0,069	0,007	mg/l	97%	-0,50
O	0,068	0,004	mg/l	96%	-0,75
P	0,063	0,006	mg/l	89%	-2,01
Q	0,076	0,009	mg/l	107%	1,26
R	0,0663	0,007	mg/l	93%	-1,18
S	0,069	0,006	mg/l	97%	-0,50
T			mg/l		
U	0,0672	0,0014	mg/l	95%	-0,96
V	0,071	0,007	mg/l	100%	0,00
W	0,32 *	0,05	mg/l	451%	62,63
X			mg/l		
Y	0,071	0,0057	mg/l	100%	0,00
Z			mg/l		
AA	0,062	0,015	mg/l	87%	-2,26
AB	0,071	0,007	mg/l	100%	0,00
AC	0,071	0,007	mg/l	100%	0,00
AD			mg/l		
AE	0,066	0,005	mg/l	93%	-1,26
AF			mg/l		
AG	0,074	0,0013	mg/l	104%	0,75
AH			mg/l		
AI	0,060	0,006	mg/l	85%	-2,77
AJ	0,077	0,001	mg/l	108%	1,51
AK	0,077	0,005	mg/l	108%	1,51
AL	0,07		mg/l	99%	-0,25
AM	0,064	0,013	mg/l	90%	-1,76
AN	0,068	0,012	mg/l	96%	-0,75
AO			mg/l		



AP	0,068	0,014	mg/l	96%	-0,75
AQ			mg/l		
AR	0,077	0,008	mg/l	108%	1,51
AS	0,07	0,004	mg/l	99%	-0,25
AT	0,081	0,003	mg/l	114%	2,52
AU	0,0661	0,004	mg/l	93%	-1,23
AV	0,072		mg/l	101%	0,25
AW			mg/l		
AX	0,07	0,007	mg/l	99%	-0,25
AY	0,068		mg/l	96%	-0,75
AZ	0,066		mg/l	93%	-1,26
BA	0,072	0,006	mg/l	101%	0,25
BB	0,066	0,004	mg/l	93%	-1,26
BC			mg/l		
BD	0,070		mg/l	99%	-0,25
BE	0,06	0,01	mg/l	85%	-2,77
BF			mg/l		
BG	0,079	0,016	mg/l	111%	2,01
	All results	Outliers excl.		Unit	
Mean \pm CI(99%)	0,074 \pm 0,015	0,070 \pm 0,002	mg/l		
Recov. \pm CI(99%)	104,9 \pm 21,0	98,1 \pm 2,8	%		
SD between labs	0,038	0,005	mg/l		
RSD between labs	50,4	6,9	%		
n for calculation	46	44			

Sample N148A

Parameter Ammonium

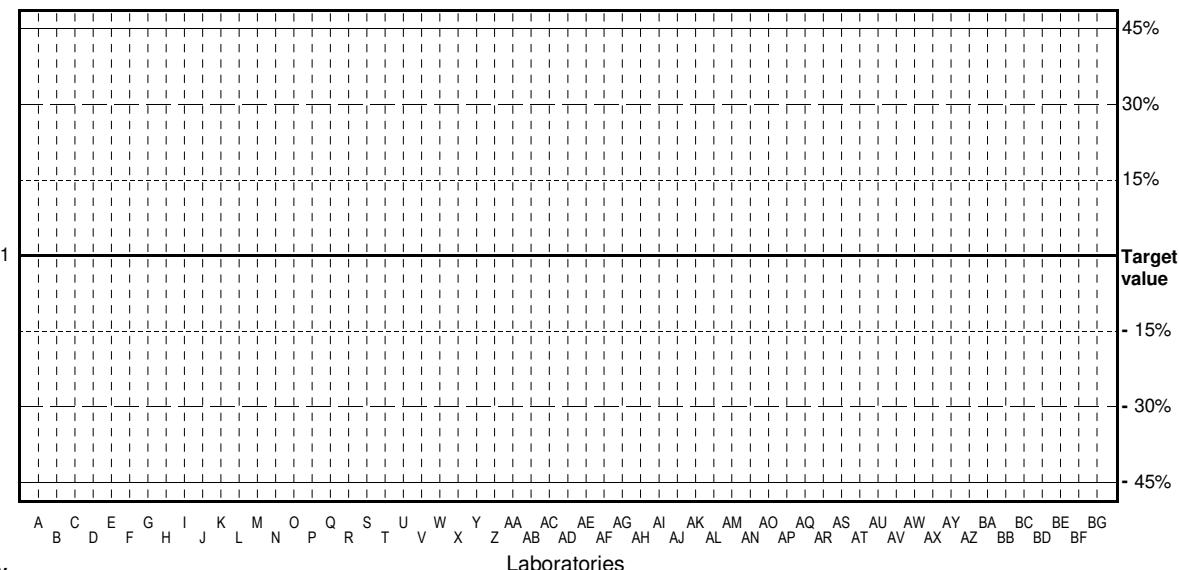
Target value <0,01 mg/l

IFA result <0,01 mg/l

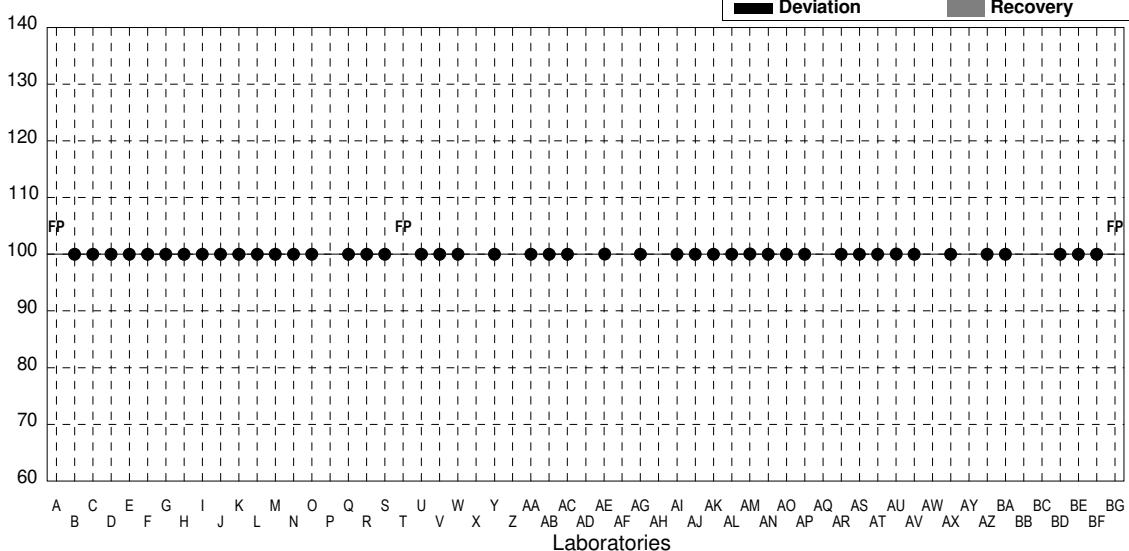
Stability test <0,01 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,169	0,02	mg/l	FP	
B	0,005	0,0004	mg/l	•	
C	<0,010		mg/l	•	
D	<0,01		mg/l	•	
E	<0,01		mg/l	•	
F	<0,010		mg/l	•	
G	<0,020	0,006	mg/l	•	
H	<0,01		mg/l	•	
I	<0,02		mg/l	•	
J	<0,01		mg/l	•	
K	<0,01		mg/l	•	
L	0,0036	0,0015	mg/l	•	
M	<0,01		mg/l	•	
N	<0,005		mg/l	•	
O	<0,02		mg/l	•	
P			mg/l		
Q	<0,008		mg/l	•	
R	<0,025		mg/l	•	
S	<0,01		mg/l	•	
T	0,08	0,02	mg/l	FP	
U	[0,0026]		mg/l	•	
V	<0,0026		mg/l	•	
W	<0,10		mg/l	•	
X			mg/l		
Y	0,00063		mg/l	•	
Z			mg/l		
AA	<0,03	0,08	mg/l	•	
AB	<0,010		mg/l	•	
AC	<0,010		mg/l	•	
AD			mg/l		
AE	0	0	mg/l	•	
AF			mg/l		
AG	<0,01		mg/l	•	
AH			mg/l		
AI	<0,05	0,005	mg/l	•	
AJ	<0,01		mg/l	•	
AK	<0,064		mg/l	•	
AL	<0,01		mg/l	•	
AM	0	0,007	mg/l	•	
AN	<0,04		mg/l	•	
AO	<0,032		mg/l	•	

Result
[mg/l]



Recovery
[%]



AP	<0,01		mg/l	•	
AQ			mg/l		
AR	<0,030		mg/l	•	
AS	<0,06		mg/l	•	
AT	<0,0039	0,002	mg/l	•	
AU	0,0		mg/l	•	
AV	<0,01		mg/l	•	
AW			mg/l		
AX	<0,02		mg/l	•	
AY			mg/l		
AZ	<0,05		mg/l	•	
BA	<0,013		mg/l	•	
BB			mg/l		
BC			mg/l		
BD	0,005		mg/l	•	
BE	<0,04		mg/l	•	
BF	0,01	0,01	mg/l	•	
BG	0,036	0,007	mg/l	FP	
	All results	Outliers excl.	Unit		
Mean ± CI(99%)			mg/l		
Recov. ± CI(99%)			%		
SD between labs			mg/l		
RSD between labs			%		
n for calculation					

Sample N148B

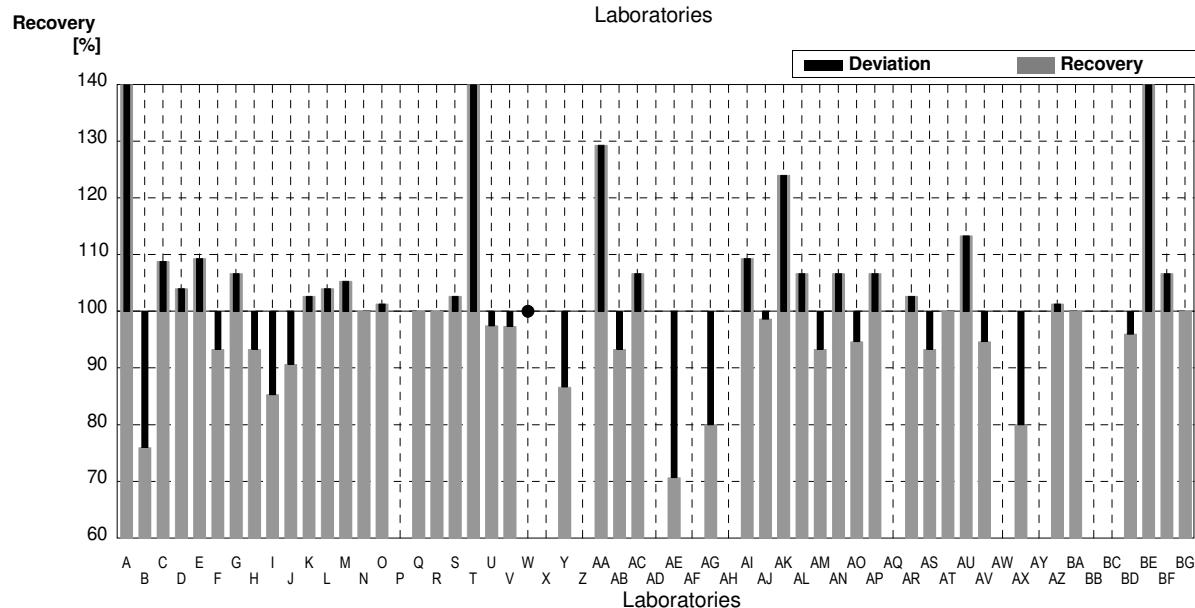
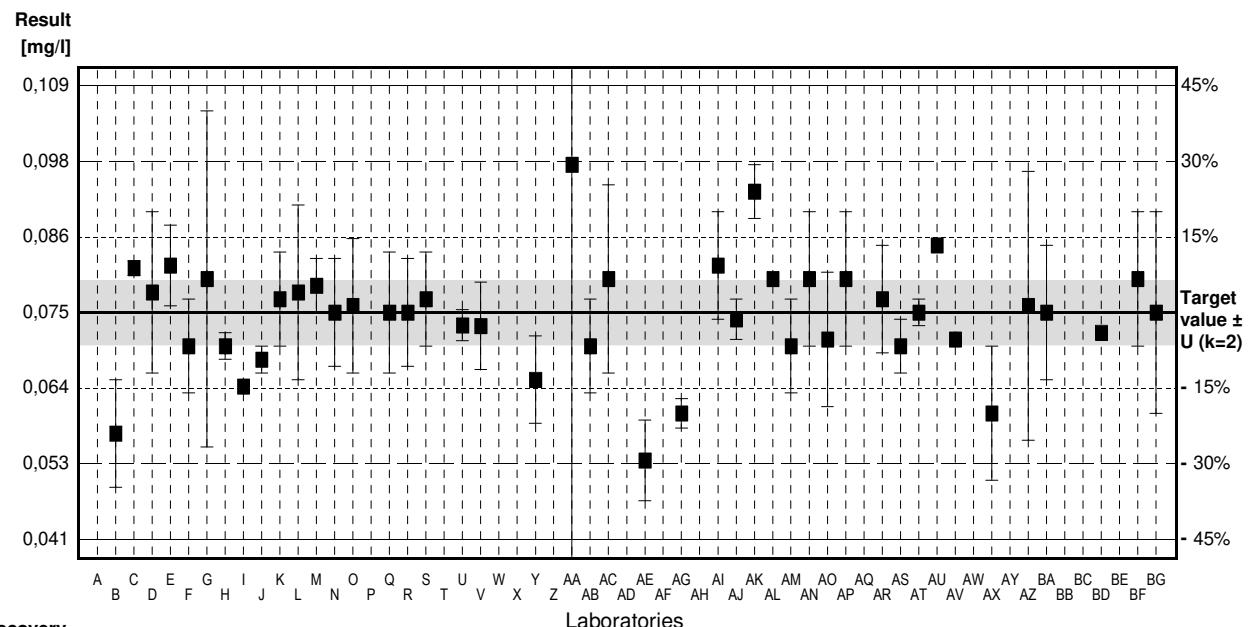
Parameter Ammonium

Target value $\pm U$ ($k=2$) 0,075 mg/l \pm 0,005 mg/l

IFA result $\pm U$ ($k=2$) 0,076 mg/l \pm 0,005 mg/l

Stability test $\pm U$ ($k=2$) 0,076 mg/l \pm 0,005 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,206 *	0,02	mg/l	275%	13,44
B	0,057	0,008	mg/l	76%	-1,85
C	0,0816	0,0011	mg/l	109%	0,68
D	0,078	0,012	mg/l	104%	0,31
E	0,082	0,006	mg/l	109%	0,72
F	0,070	0,007	mg/l	93%	-0,51
G	0,080	0,025	mg/l	107%	0,51
H	0,070	0,002	mg/l	93%	-0,51
I	0,064		mg/l	85%	-1,13
J	0,068	0,002	mg/l	91%	-0,72
K	0,077	0,007	mg/l	103%	0,21
L	0,078	0,013	mg/l	104%	0,31
M	0,079	0,004	mg/l	105%	0,41
N	0,075	0,008	mg/l	100%	0,00
O	0,076	0,010	mg/l	101%	0,10
P			mg/l		
Q	0,075	0,009	mg/l	100%	0,00
R	0,075	0,008	mg/l	100%	0,00
S	0,077	0,007	mg/l	103%	0,21
T	0,19 *	0,04	mg/l	253%	11,79
U	0,0731	0,0023	mg/l	97%	-0,19
V	0,073	0,0065	mg/l	97%	-0,21
W	<0,10		mg/l	*	
X			mg/l		
Y	0,065	0,0065	mg/l	87%	-1,03
Z			mg/l		
AA	0,097	0,08	mg/l	129%	2,26
AB	0,070	0,007	mg/l	93%	-0,51
AC	0,080	0,014	mg/l	107%	0,51
AD			mg/l		
AE	0,053	0,006	mg/l	71%	-2,26
AF			mg/l		
AG	0,06	0,0022	mg/l	80%	-1,54
AH			mg/l		
AI	0,082	0,008	mg/l	109%	0,72
AJ	0,074	0,003	mg/l	99%	-0,10
AK	0,093	0,004	mg/l	124%	1,85
AL	0,08		mg/l	107%	0,51
AM	0,070	0,007	mg/l	93%	-0,51
AN	0,08	0,01	mg/l	107%	0,51
AO	0,071	0,01	mg/l	95%	-0,41



AP	0,08	0,01	mg/l	107%	0,51
AQ			mg/l		
AR	0,077	0,008	mg/l	103%	0,21
AS	0,07	0,004	mg/l	93%	-0,51
AT	0,075	0,002	mg/l	100%	0,00
AU	0,085		mg/l	113%	1,03
AV	0,071		mg/l	95%	-0,41
AW			mg/l		
AX	0,06	0,01	mg/l	80%	-1,54
AY			mg/l		
AZ	0,076	0,02	mg/l	101%	0,10
BA	0,075	0,01	mg/l	100%	0,00
BB			mg/l		
BC			mg/l		
BD	0,072		mg/l	96%	-0,31
BE	0,11 *	0,001	mg/l	147%	3,59
BF	0,08	0,01	mg/l	107%	0,51
BG	0,075	0,015	mg/l	100%	0,00
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	0,081 \pm 0,010	0,075 \pm 0,003	mg/l		
Recov. \pm CI(99%)	107,4 \pm 14,0	99,4 \pm 4,5	%		
SD between labs	0,027	0,008	mg/l		
RSD between labs	33,3	11,1	%		
n for calculation	47	44			

Sample N148A

Parameter Chloride

Target value $\pm U$ ($k=2$) 21,1 mg/l \pm 0,1 mg/l

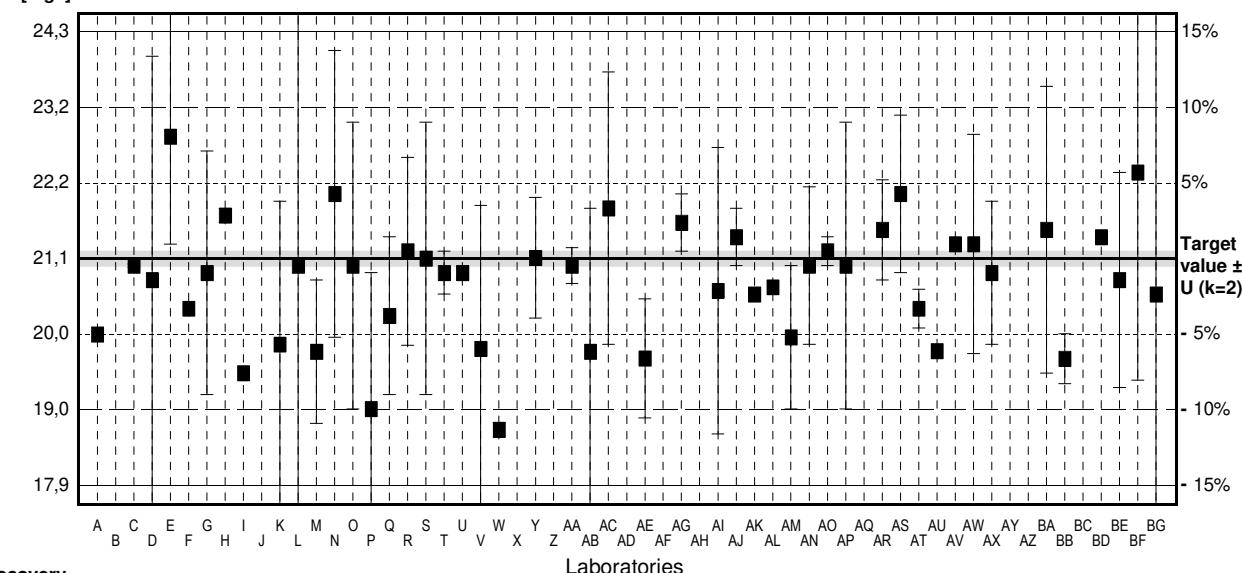
IFA result $\pm U$ ($k=2$) 21,2 mg/l \pm 1,1 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	20,042	0,04	mg/l	95%	-1,57
B			mg/l		
C	21,0	0,021	mg/l	100%	-0,15
D	20,8	3,12	mg/l	99%	-0,44
E	22,8	1,5	mg/l	108%	2,52
F	20,4		mg/l	97%	-1,04
G	20,9	1,7	mg/l	99%	-0,30
H	21,7	0,1	mg/l	103%	0,89
I	19,502		mg/l	92%	-2,37
J			mg/l		
K	19,9	2	mg/l	94%	-1,78
L	21	3,6	mg/l	100%	-0,15
M	19,8	1	mg/l	94%	-1,93
N	22	2	mg/l	104%	1,33
O	21	2	mg/l	100%	-0,15
P	19,0	1,9	mg/l	90%	-3,11
Q	20,3	1,1	mg/l	96%	-1,18
R	21,2	1,31	mg/l	100%	0,15
S	21,1	1,90	mg/l	100%	0,00
T	20,9	0,3	mg/l	99%	-0,30
U	20,9	0,09	mg/l	99%	-0,30
V	19,84	2,0	mg/l	94%	-1,87
W	18,71	0,10	mg/l	89%	-3,54
X			mg/l		
Y	21,11	0,844	mg/l	100%	0,01
Z			mg/l		
AA	21,0	0,25	mg/l	100%	-0,15
AB	19,8	2,0	mg/l	94%	-1,93
AC	21,8	1,9	mg/l	103%	1,04
AD			mg/l		
AE	19,706	0,83	mg/l	93%	-2,06
AF			mg/l		
AG	21,6	0,40	mg/l	102%	0,74
AH			mg/l		
AI	20,65	2,00	mg/l	98%	-0,67
AJ	21,4	0,4	mg/l	101%	0,44
AK	20,6		mg/l	98%	-0,74
AL	20,7		mg/l	98%	-0,59
AM	20	1	mg/l	95%	-1,63
AN	21,0	1,1	mg/l	100%	-0,15
AO	21,2	0,2	mg/l	100%	0,15

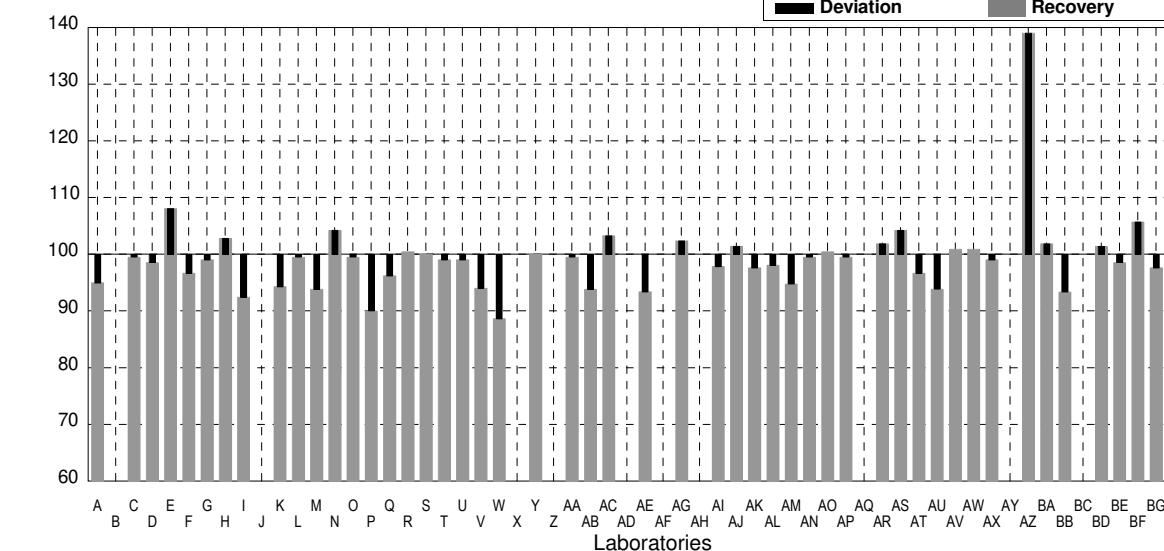
Result

[mg/l]



Recovery

[%]



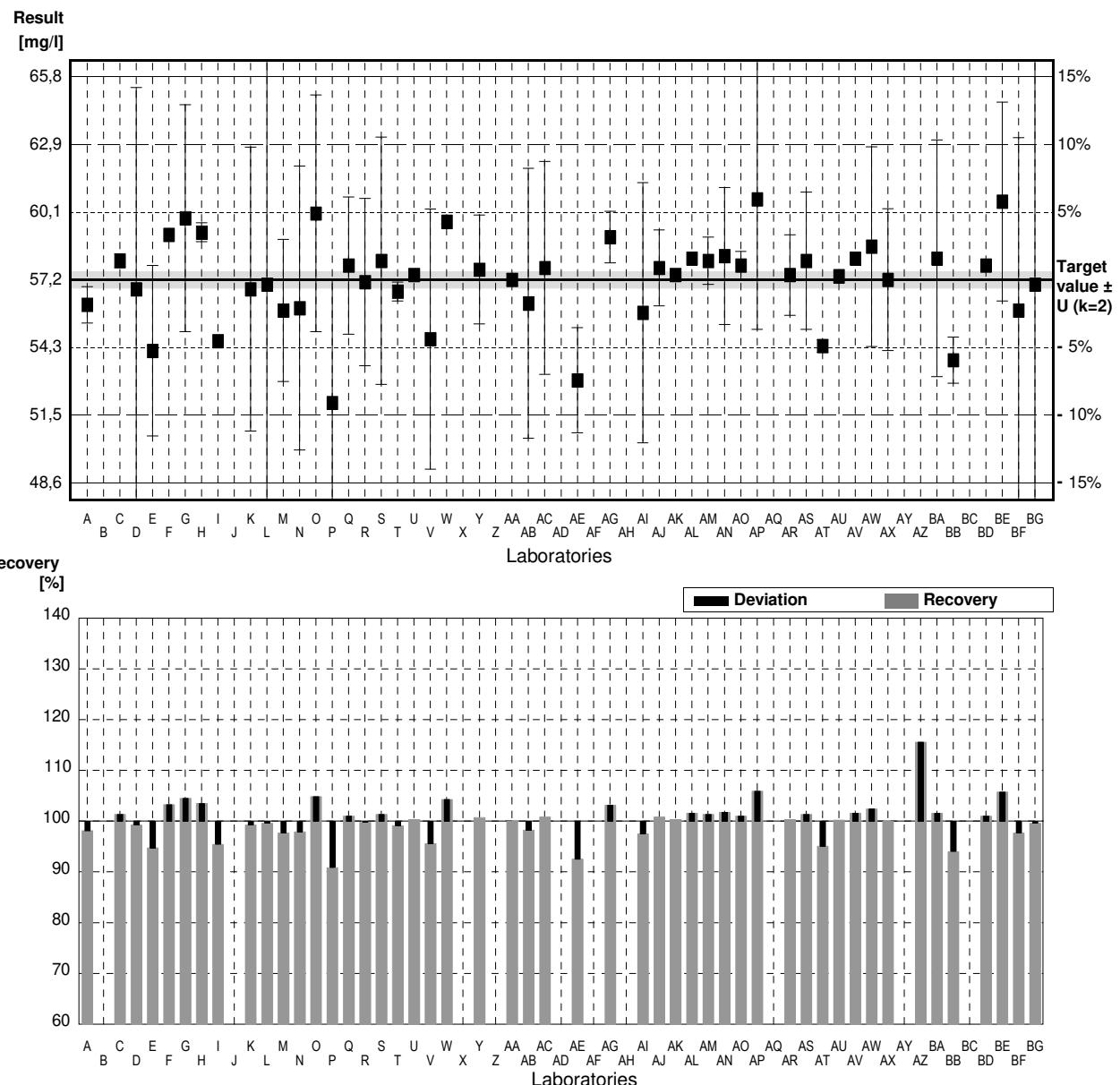
AP	21,0	2,0	mg/l	100%	-0,15
AQ			mg/l		
AR	21,5	0,7	mg/l	102%	0,59
AS	22	1,1	mg/l	104%	1,33
AT	20,4	0,27	mg/l	97%	-1,04
AU	19,81		mg/l	94%	-1,91
AV	21,3		mg/l	101%	0,30
AW	21,3	1,53	mg/l	101%	0,30
AX	20,9	1	mg/l	99%	-0,30
AY			mg/l		
AZ	29,33 *	1,521	mg/l	139%	12,19
BA	21,5	2	mg/l	102%	0,59
BB	19,7	0,35	mg/l	93%	-2,07
BC			mg/l		
BD	21,4		mg/l	101%	0,44
BE	20,8	1,5	mg/l	99%	-0,44
BF	22,3	2,9	mg/l	106%	1,78
BG	20,6	4,1	mg/l	98%	-0,74
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	21,0 \pm 0,6	20,8 \pm 0,3	mg/l		
Recov. \pm CI(99%)	99,4 \pm 2,7	98,5 \pm 1,5	%		
SD between labs	1,5	0,8	mg/l		
RSD between labs	7,0	4,0	%		
n for calculation	49	48			

Sample N148B

Parameter Chloride

Target value $\pm U (k=2)$ 57,2 mg/l \pm 0,3 mg/l
 IFA result $\pm U (k=2)$ 57,0 mg/l \pm 2,9 mg/l

Stability test					
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	56,141	0,77	mg/l	98%	-0,58
B			mg/l		
C	58,0	0,294	mg/l	101%	0,44
D	56,8	8,52	mg/l	99%	-0,22
E	54,2 *	3,6	mg/l	95%	-1,64
F	59,1		mg/l	103%	1,04
G	59,8	4,8	mg/l	105%	1,42
H	59,2	0,4	mg/l	103%	1,09
I	54,609		mg/l	95%	-1,42
J			mg/l		
K	56,8	6	mg/l	99%	-0,22
L	57	9,7	mg/l	100%	-0,11
M	55,9	3	mg/l	98%	-0,71
N	56	6	mg/l	98%	-0,66
O	60	5	mg/l	105%	1,53
P	52,0 *	5,2	mg/l	91%	-2,84
Q	57,8	2,9	mg/l	101%	0,33
R	57,1	3,54	mg/l	100%	-0,05
S	58,0	5,22	mg/l	101%	0,44
T	56,7	0,4	mg/l	99%	-0,27
U	57,4	0,17	mg/l	100%	0,11
V	54,69	5,5	mg/l	96%	-1,37
W	59,65	0,10	mg/l	104%	1,34
X			mg/l		
Y	57,63	2,305	mg/l	101%	0,23
Z			mg/l		
AA	57,2	0,25	mg/l	100%	0,00
AB	56,2	5,7	mg/l	98%	-0,55
AC	57,7	4,5	mg/l	101%	0,27
AD			mg/l		
AE	52,95 *	2,22	mg/l	93%	-2,32
AF			mg/l		
AG	59	1,09	mg/l	103%	0,98
AH			mg/l		
AI	55,80	5,50	mg/l	98%	-0,76
AJ	57,7	1,6	mg/l	101%	0,27
AK	57,4		mg/l	100%	0,11
AL	58,1		mg/l	102%	0,49
AM	58	1	mg/l	101%	0,44
AN	58,2	2,9	mg/l	102%	0,55
AO	57,8	0,6	mg/l	101%	0,33



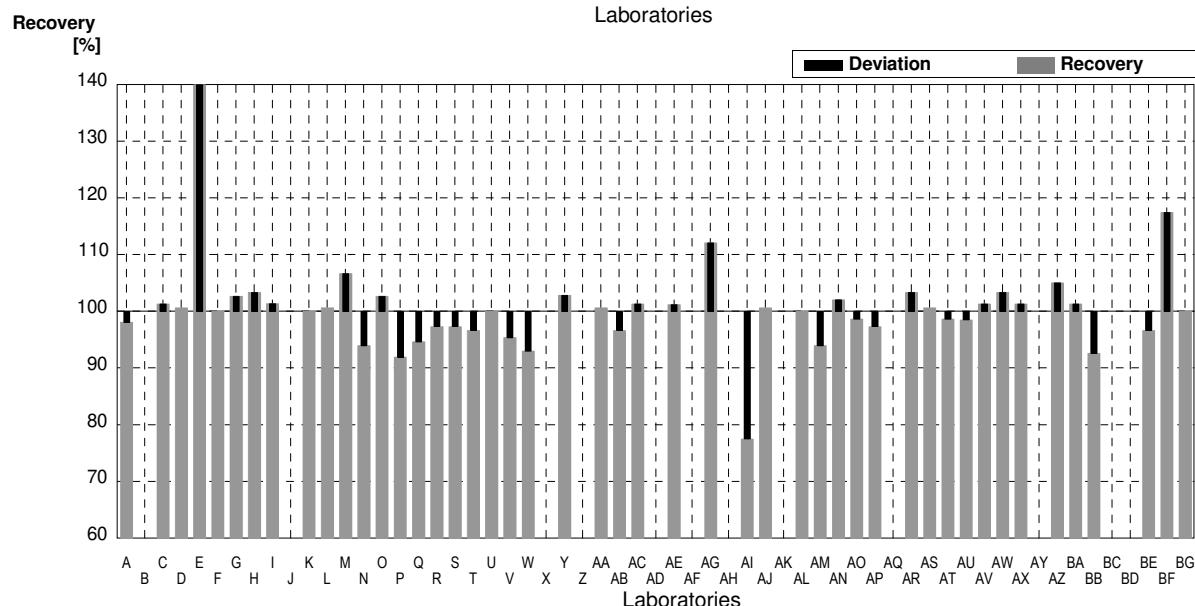
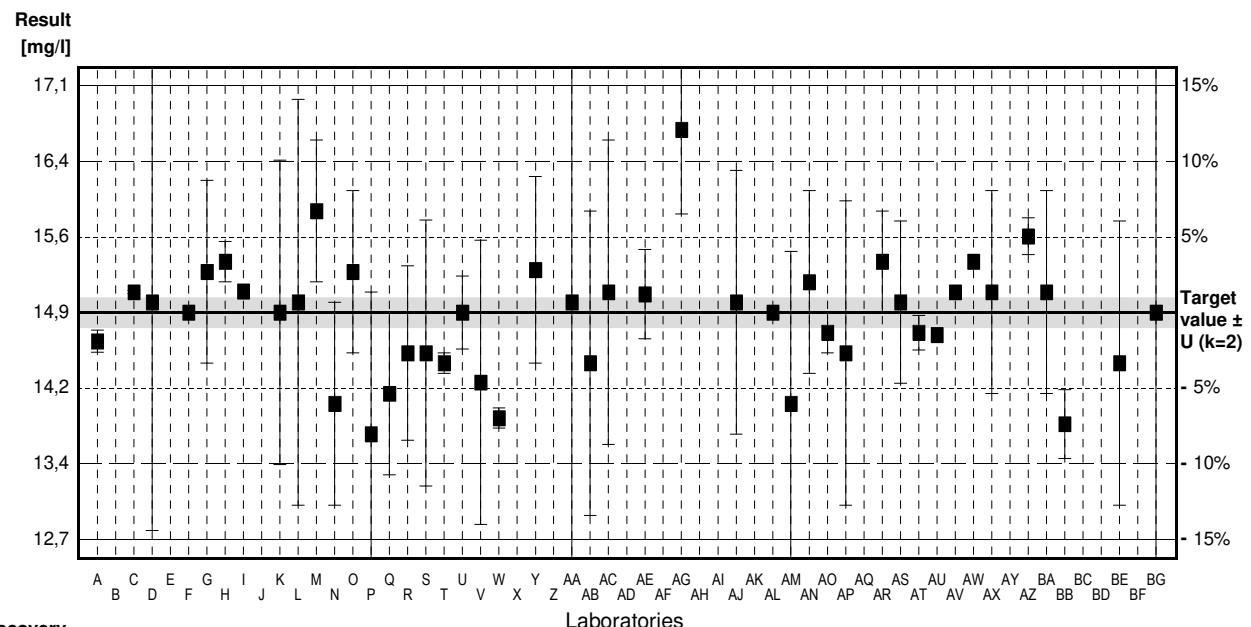
AP	60,6 *	5,5	mg/l	106%	1,86
AQ			mg/l		
AR	57,4	1,7	mg/l	100%	0,11
AS	58	2,9	mg/l	101%	0,44
AT	54,4	0,27	mg/l	95%	-1,53
AU	57,35		mg/l	100%	0,08
AV	58,1		mg/l	102%	0,49
AW	58,6	4,22	mg/l	102%	0,76
AX	57,2	3	mg/l	100%	0,00
AY			mg/l		
AZ	66,10 *	3,036	mg/l	116%	4,86
BA	58,1	5	mg/l	102%	0,49
BB	53,8 *	0,97	mg/l	94%	-1,86
BC			mg/l		
BD	57,8		mg/l	101%	0,33
BE	60,5	4,2	mg/l	106%	1,80
BF	55,9	7,3	mg/l	98%	-0,71
BG	57,0	11,4	mg/l	100%	-0,11
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	57,4 ± 0,9	57,5 ± 0,6	mg/l		
Recov. ± CI(99%)	100,3 ± 1,5	100,5 ± 1,0	%		
SD between labs	2,2	1,4	mg/l		
RSD between labs	3,9	2,4	%		
n for calculation	49	43			

Sample N148A

Parameter Sulphate

Target value $\pm U$ ($k=2$) 14,9 mg/l \pm 0,1 mg/l
 IFA result $\pm U$ ($k=2$) 15,2 mg/l \pm 0,6 mg/l

Stability test		mg/l			
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	14,616	0,11	mg/l	98%	-0,61
B			mg/l		
C	15,1	0,017	mg/l	101%	0,43
D	15,0	2,25	mg/l	101%	0,22
E	22,2 *	0,7	mg/l	149%	15,80
F	14,9		mg/l	100%	0,00
G	15,3	0,9	mg/l	103%	0,87
H	15,4	0,2	mg/l	103%	1,08
I	15,107		mg/l	101%	0,45
J			mg/l		
K	14,9	1,5	mg/l	100%	0,00
L	15	2,0	mg/l	101%	0,22
M	15,9	0,7	mg/l	107%	2,16
N	14	1	mg/l	94%	-1,95
O	15,3	0,8	mg/l	103%	0,87
P	13,7	1,4	mg/l	92%	-2,60
Q	14,1	0,8	mg/l	95%	-1,73
R	14,5	0,86	mg/l	97%	-0,87
S	14,5	1,31	mg/l	97%	-0,87
T	14,4	0,1	mg/l	97%	-1,08
U	14,9	0,36	mg/l	100%	0,00
V	14,21	1,4	mg/l	95%	-1,49
W	13,86	0,10	mg/l	93%	-2,25
X			mg/l		
Y	15,32	0,919	mg/l	103%	0,91
Z			mg/l		
AA	15,0	3,0	mg/l	101%	0,22
AB	14,4	1,5	mg/l	97%	-1,08
AC	15,1	1,5	mg/l	101%	0,43
AD			mg/l		
AE	15,08	0,44	mg/l	101%	0,39
AF			mg/l		
AG	16,7 *	0,83	mg/l	112%	3,90
AH			mg/l		
AI	11,55 *	1,10	mg/l	78%	-7,25
AJ	15,0	1,3	mg/l	101%	0,22
AK			mg/l		
AL	14,9		mg/l	100%	0,00
AM	14	1,5	mg/l	94%	-1,95
AN	15,2	0,9	mg/l	102%	0,65
AO	14,7	0,2	mg/l	99%	-0,43



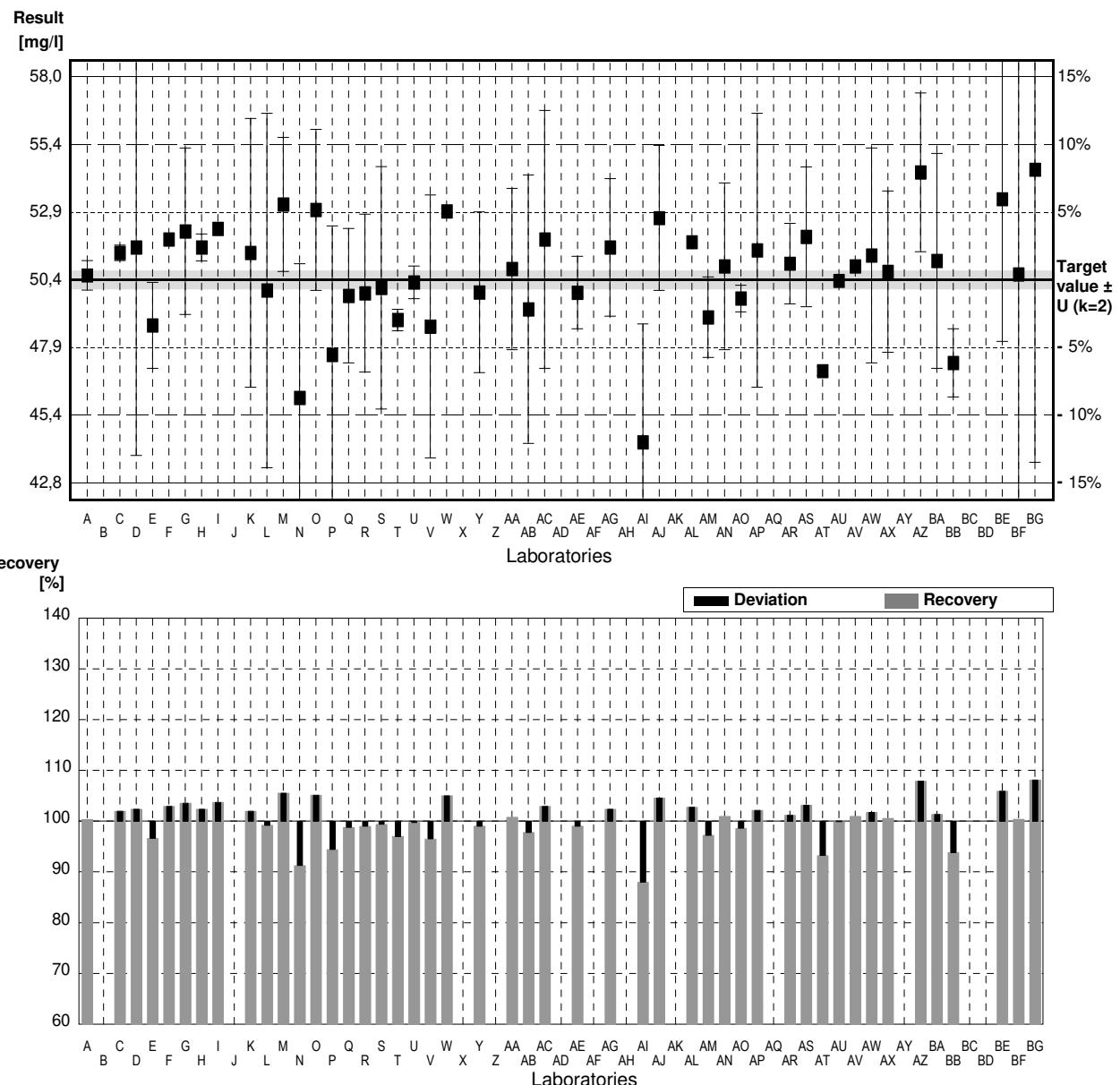
AP	14,5	1,5	mg/l	97%	-0,87
AQ			mg/l		
AR	15,4	0,5	mg/l	103%	1,08
AS	15	0,8	mg/l	101%	0,22
AT	14,7	0,17	mg/l	99%	-0,43
AU	14,68		mg/l	99%	-0,48
AV	15,1		mg/l	101%	0,43
AW	15,4		mg/l	103%	1,08
AX	15,1	1	mg/l	101%	0,43
AY			mg/l		
AZ	15,65	0,181	mg/l	105%	1,62
BA	15,1	1	mg/l	101%	0,43
BB	13,8	0,34	mg/l	93%	-2,38
BC			mg/l		
BD			mg/l		
BE	14,4	1,4	mg/l	97%	-1,08
BF	17,5 *	3,2	mg/l	117%	5,63
BG	14,9	3,0	mg/l	100%	0,00
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	15,0 \pm 0,5	14,8 \pm 0,2	mg/l		
Recov. \pm CI(99%)	100,7 \pm 3,6	99,4 \pm 1,4	%		
SD between labs	1,4	0,5	mg/l		
RSD between labs	9,1	3,4	%		
n for calculation	47	43			

Sample N148B

Parameter Sulphate

Target value $\pm U$ ($k=2$) 50,4 mg/l \pm 0,3 mg/l
 IFA result $\pm U$ ($k=2$) 50,9 mg/l \pm 2,0 mg/l

Stability test					
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	50,565	0,55	mg/l	100%	0,11
B			mg/l		
C	51,4	0,290	mg/l	102%	0,64
D	51,6	7,74	mg/l	102%	0,77
E	48,7	1,6	mg/l	97%	-1,09
F	51,9		mg/l	103%	0,96
G	52,2	3,1	mg/l	104%	1,15
H	51,6	0,5	mg/l	102%	0,77
I	52,299		mg/l	104%	1,22
J			mg/l		
K	51,4	5	mg/l	102%	0,64
L	50	6,6	mg/l	99%	-0,26
M	53,2	2,5	mg/l	106%	1,79
N	46 *	5	mg/l	91%	-2,82
O	53	3	mg/l	105%	1,66
P	47,6	4,8	mg/l	94%	-1,79
Q	49,8	2,5	mg/l	99%	-0,38
R	49,9	2,94	mg/l	99%	-0,32
S	50,1	4,51	mg/l	99%	-0,19
T	48,9	0,4	mg/l	97%	-0,96
U	50,3	0,61	mg/l	100%	-0,06
V	48,66	4,9	mg/l	97%	-1,11
W	52,95	0,10	mg/l	105%	1,63
X			mg/l		
Y	49,93	2,996	mg/l	99%	-0,30
Z			mg/l		
AA	50,8	3,0	mg/l	101%	0,26
AB	49,3	5,0	mg/l	98%	-0,70
AC	51,9	4,8	mg/l	103%	0,96
AD			mg/l		
AE	49,92	1,35	mg/l	99%	-0,31
AF			mg/l		
AG	51,6	2,56	mg/l	102%	0,77
AH			mg/l		
AI	44,35 *	4,40	mg/l	88%	-3,87
AJ	52,7	2,7	mg/l	105%	1,47
AK			mg/l		
AL	51,8		mg/l	103%	0,90
AM	49	1,5	mg/l	97%	-0,90
AN	50,9	3,1	mg/l	101%	0,32
AO	49,7	0,5	mg/l	99%	-0,45



AP	51,5	5,1	mg/l	102%	0,70
AQ			mg/l		
AR	51,0	1,5	mg/l	101%	0,38
AS	52	2,6	mg/l	103%	1,02
AT	47,0	0,17	mg/l	93%	-2,18
AU	50,36		mg/l	100%	-0,03
AV	50,9		mg/l	101%	0,32
AW	51,3	4,00	mg/l	102%	0,58
AX	50,7	3	mg/l	101%	0,19
AY			mg/l		
AZ	54,40	2,955	mg/l	108%	2,56
BA	51,1	4	mg/l	101%	0,45
BB	47,3	1,27	mg/l	94%	-1,98
BC			mg/l		
BD			mg/l		
BE	53,4	5,3	mg/l	106%	1,92
BF	50,6	9,1	mg/l	100%	0,13
BG	54,5	10,9	mg/l	108%	2,62
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	50,6 \pm 0,8	50,9 \pm 0,7	mg/l		
Recov. \pm CI(99%)	100,5 \pm 1,6	101,0 \pm 1,3	%		
SD between labs	2,0	1,7	mg/l		
RSD between labs	4,0	3,3	%		
n for calculation	47	45			

Sample N148A

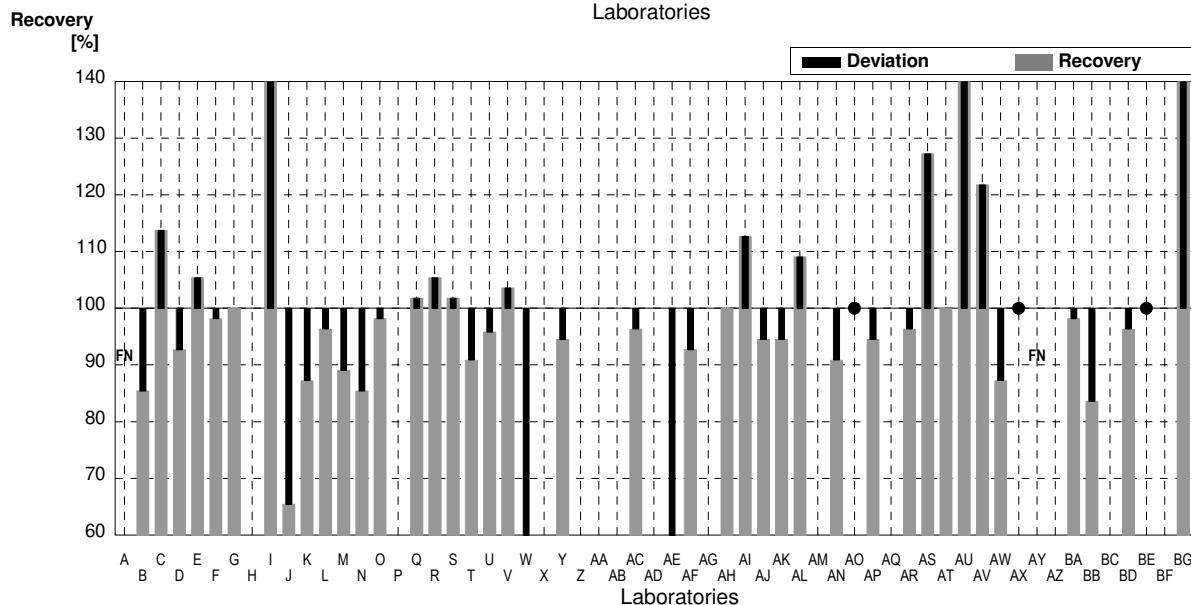
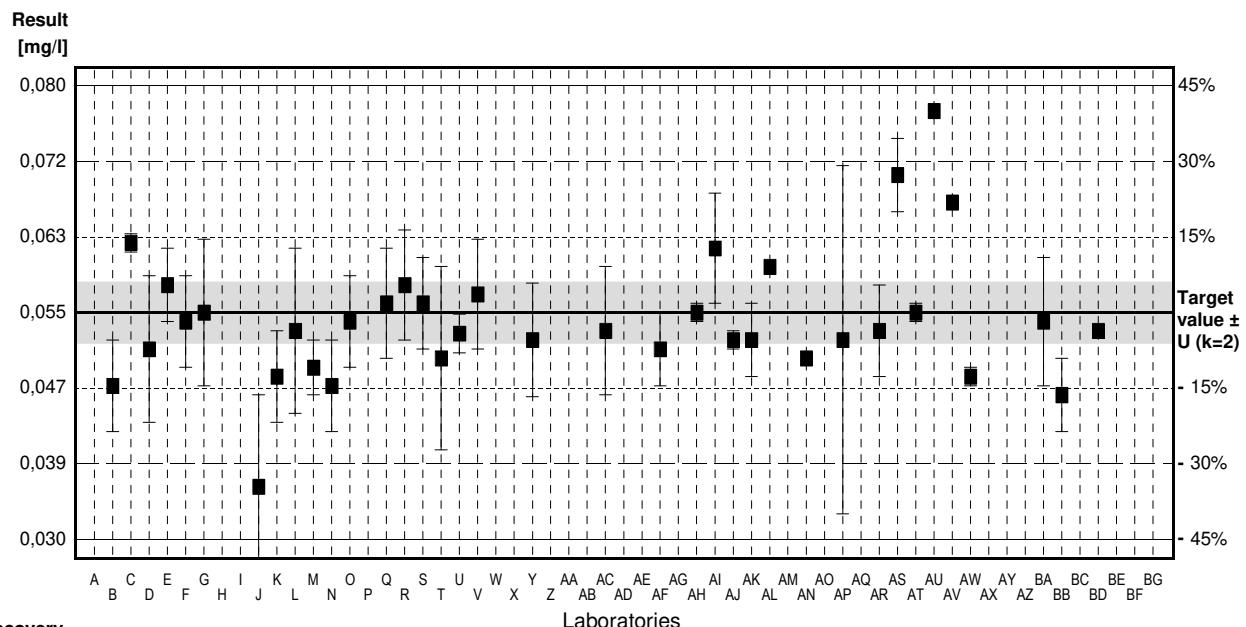
Parameter Orthophosphate

Target value $\pm U$ ($k=2$) 0,055 mg/l \pm 0,003 mg/l

IFA result $\pm U$ ($k=2$) 0,055 mg/l \pm 0,002 mg/l

Stability test $\pm U$ ($k=2$) 0,055 mg/l \pm 0,002 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	<0,0408	0,0005	mg/l	FN	
B	0,047	0,005	mg/l	85%	-1,32
C	0,0626	0,001	mg/l	114%	1,26
D	0,051	0,008	mg/l	93%	-0,66
E	0,058	0,004	mg/l	105%	0,50
F	0,054	0,005	mg/l	98%	-0,17
G	0,055	0,008	mg/l	100%	0,00
H			mg/l		
I	0,156 *		mg/l	284%	16,69
J	0,036 *	0,01	mg/l	65%	-3,14
K	0,048	0,005	mg/l	87%	-1,16
L	0,053	0,009	mg/l	96%	-0,33
M	0,049	0,003	mg/l	89%	-0,99
N	0,047	0,005	mg/l	85%	-1,32
O	0,054	0,005	mg/l	98%	-0,17
P			mg/l		
Q	0,056	0,006	mg/l	102%	0,17
R	0,058	0,006	mg/l	105%	0,50
S	0,056	0,005	mg/l	102%	0,17
T	0,05	0,01	mg/l	91%	-0,83
U	0,0527	0,0021	mg/l	96%	-0,38
V	0,057	0,006	mg/l	104%	0,33
W	0,010 *	0,005	mg/l	18%	-7,44
X			mg/l		
Y	0,052	0,0062	mg/l	95%	-0,50
Z			mg/l		
AA			mg/l		
AB			mg/l		
AC	0,053	0,007	mg/l	96%	-0,33
AD			mg/l		
AE	0,015 *	0,001	mg/l	27%	-6,61
AF	0,051	0,004	mg/l	93%	-0,66
AG			mg/l		
AH	0,055	0,001	mg/l	100%	0,00
AI	0,062	0,0060	mg/l	113%	1,16
AJ	0,052	0,001	mg/l	95%	-0,50
AK	0,052	0,004	mg/l	95%	-0,50
AL	0,06		mg/l	109%	0,83
AM			mg/l		
AN	0,050		mg/l	91%	-0,83
AO	<0,153		mg/l	*	



AP	0,052	0,019	mg/l	95%	-0,50
AQ			mg/l		
AR	0,053	0,005	mg/l	96%	-0,33
AS	0,07 *	0,004	mg/l	127%	2,48
AT	0,055	0,001	mg/l	100%	0,00
AU	0,077 *		mg/l	140%	3,64
AV	0,067 *		mg/l	122%	1,98
AW	0,048	0,001	mg/l	87%	-1,16
AX	<0,15		mg/l	*	
AY	<0,05		mg/l	FN	
AZ			mg/l		
BA	0,054	0,007	mg/l	98%	-0,17
BB	0,046	0,004	mg/l	84%	-1,49
BC			mg/l		
BD	0,053		mg/l	96%	-0,33
BE	<1,0		mg/l	*	
BF			mg/l		
BG	0,119 *	0,024	mg/l	216%	10,58
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	0,056 ± 0,009	0,053 ± 0,002	mg/l		
Recov. ± CI(99%)	102,3 ± 17,0	96,8 ± 3,6	%		
SD between labs	0,022	0,004	mg/l		
RSD between labs	39,5	7,7	%		
n for calculation	41	33			

Sample N148B

Parameter Orthophosphate

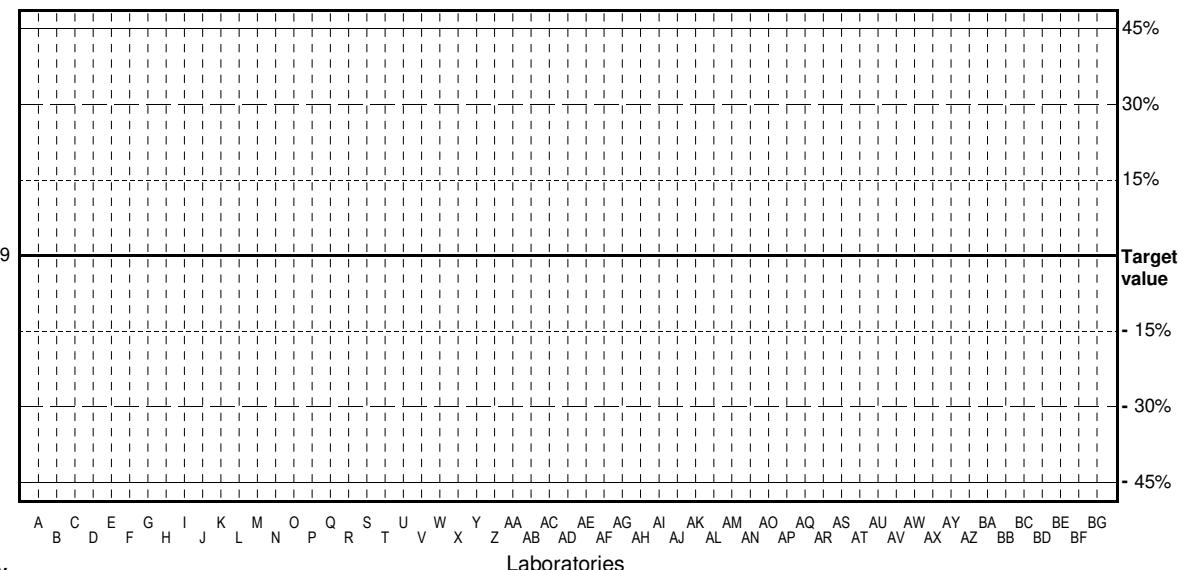
Target value <0,009 mg/l

IFA result <0,009 mg/l

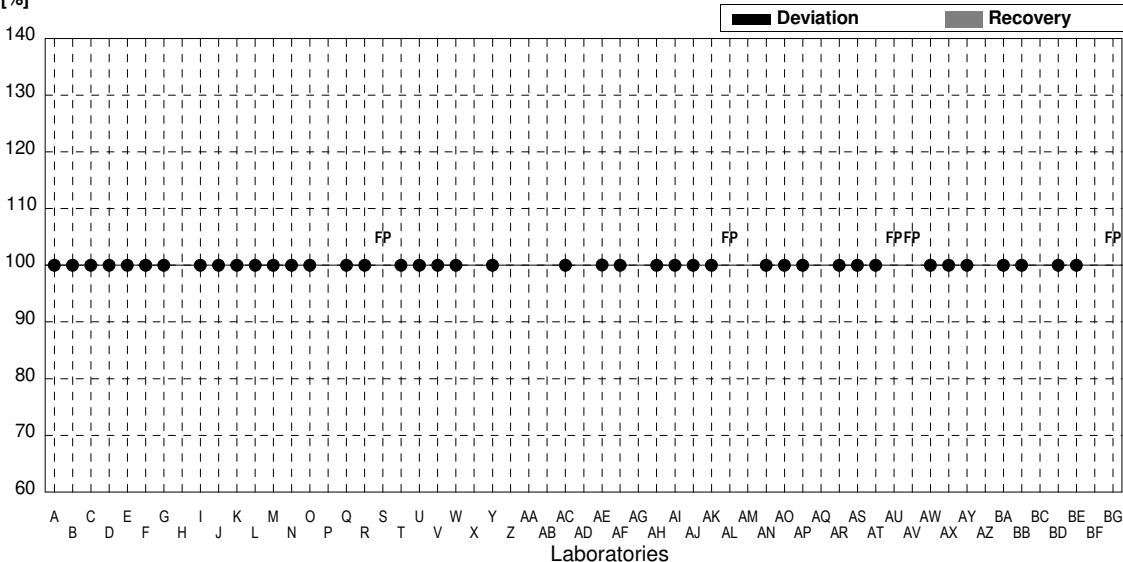
Stability test <0,009 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	<0,0408	0,001	mg/l	•	
B	<0,01		mg/l	•	
C	<0,015		mg/l	•	
D	<0,01		mg/l	•	
E	<0,015		mg/l	•	
F	<0,005		mg/l	•	
G	<0,009	0,001	mg/l	•	
H			mg/l		
I	<0,1		mg/l	•	
J	<0,019		mg/l	•	
K	<0,02		mg/l	•	
L	<0,009		mg/l	•	
M	<0,01		mg/l	•	
N	<0,004		mg/l	•	
O	<0,01		mg/l	•	
P			mg/l		
Q	<0,006		mg/l	•	
R	<0,05		mg/l	•	
S	0,013	0,001	mg/l	FP	
T	<0,01	0,01	mg/l	•	
U	<0,0150		mg/l	•	
V	<0,0055		mg/l	•	
W	<0,010	0,005	mg/l	•	
X			mg/l		
Y	0,008	0,001	mg/l	•	
Z			mg/l		
AA			mg/l		
AB			mg/l		
AC	<0,010		mg/l	•	
AD			mg/l		
AE	0	0	mg/l	•	
AF	<0,010		mg/l	•	
AG			mg/l		
AH	<0,015		mg/l	•	
AI	<0,03	0,003	mg/l	•	
AJ	<0,01		mg/l	•	
AK	<0,031		mg/l	•	
AL	0,02		mg/l	FP	
AM			mg/l		
AN	<0,015		mg/l	•	
AO	<0,153		mg/l	•	

Result
[mg/l]



Recovery
[%]



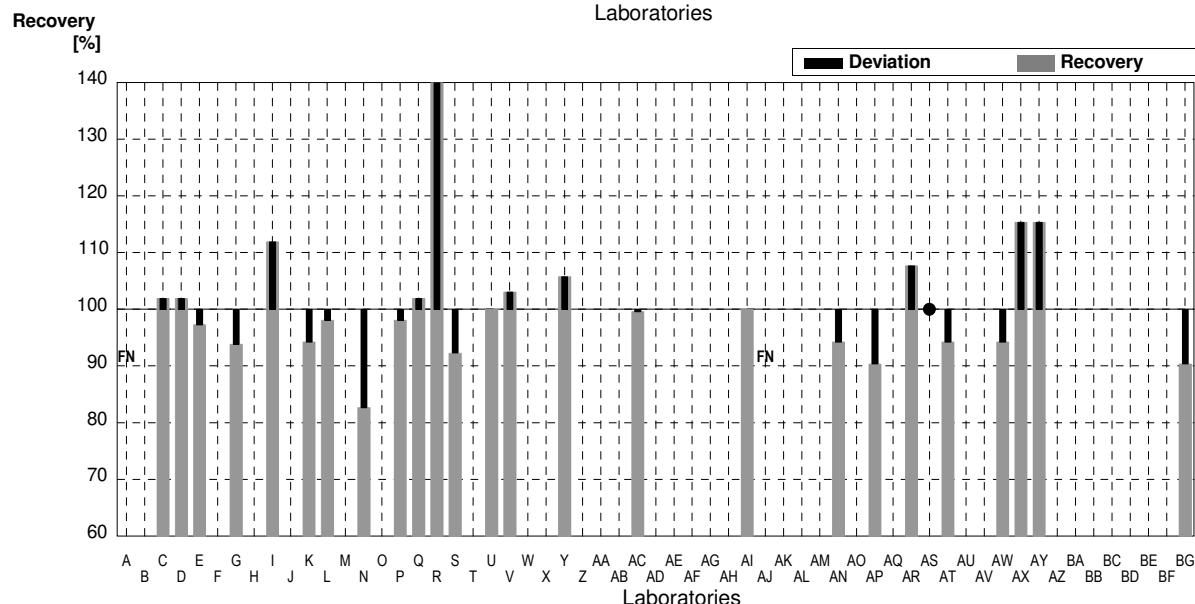
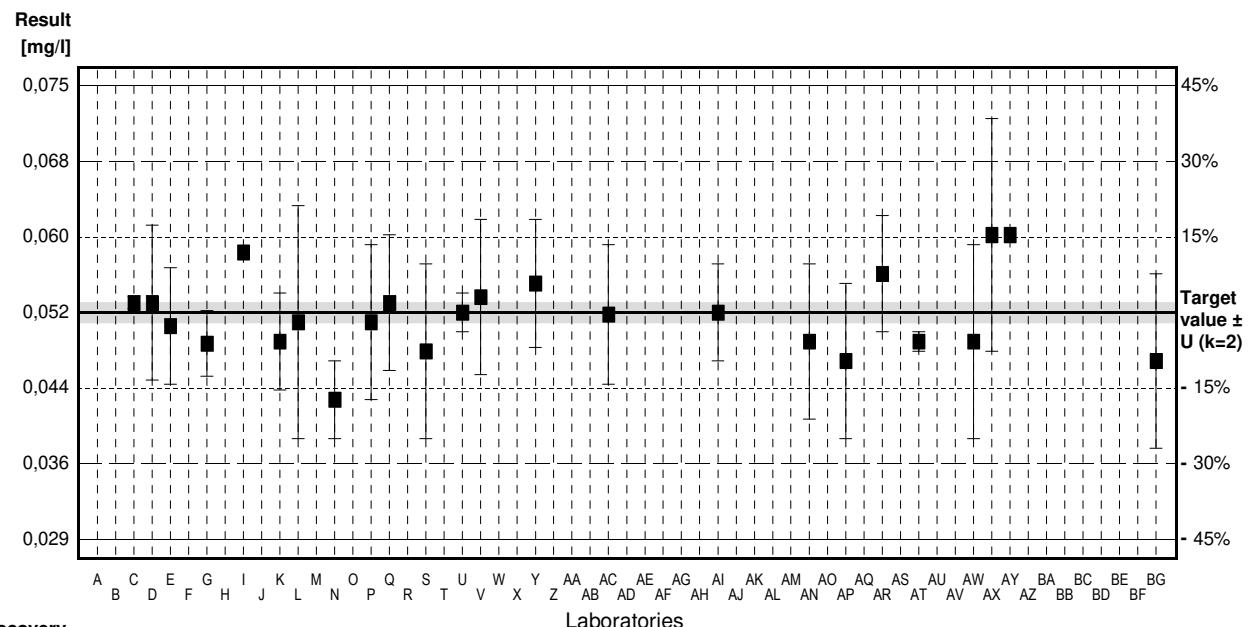
AP	<0,015		mg/l	•	
AQ			mg/l		
AR	<0,020		mg/l	•	
AS	<0,05		mg/l	•	
AT	0,006	0,001	mg/l	•	
AU	0,026		mg/l	FP	
AV	0,015		mg/l	FP	
AW	<0,015		mg/l	•	
AX	<0,15		mg/l	•	
AY	<0,05		mg/l	•	
AZ			mg/l		
BA	<0,01		mg/l	•	
BB	<0,015		mg/l	•	
BC			mg/l		
BD	<0,006		mg/l	•	
BE	<1,0		mg/l	•	
BF			mg/l		
BG	0,049	0,010	mg/l	FP	
	All results	Outliers excl.	Unit		
Mean ± CI(99%)			mg/l		
Recov. ± CI(99%)			%		
SD between labs			mg/l		
RSD between labs			%		
n for calculation					

Sample N148A

Parameter Boron

Target value $\pm U$ ($k=2$) 0,052 mg/l \pm 0,001 mg/l
 IFA result $\pm U$ ($k=2$) 0,053 mg/l \pm 0,005 mg/l

Stability test					
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	<0,05	0	mg/l	FN	
B			mg/l		
C	0,053	0,0006	mg/l	102%	0,22
D	0,053	0,008	mg/l	102%	0,22
E	0,0506	0,006	mg/l	97%	-0,31
F			mg/l		
G	0,0488	0,0034	mg/l	94%	-0,72
H			mg/l		
I	0,0582		mg/l	112%	1,39
J			mg/l		
K	0,049	0,005	mg/l	94%	-0,67
L	0,051	0,012	mg/l	98%	-0,22
M	n.b.		mg/l		
N	0,043	0,004	mg/l	83%	-2,01
O			mg/l		
P	0,051	0,008	mg/l	98%	-0,22
Q	0,053	0,007	mg/l	102%	0,22
R	53,43 *	5,24	mg/l	102750%	11936,05
S	0,048	0,009	mg/l	92%	-0,89
T			mg/l		
U	0,052	0,002	mg/l	100%	0,00
V	0,0536	0,0080	mg/l	103%	0,36
W			mg/l		
X			mg/l		
Y	0,055	0,0066	mg/l	106%	0,67
Z			mg/l		
AA			mg/l		
AB			mg/l		
AC	0,0518	0,0072	mg/l	100%	-0,04
AD			mg/l		
AE			mg/l		
AF			mg/l		
AG			mg/l		
AH			mg/l		
AI	0,052	0,005	mg/l	100%	0,00
AJ	<0,02		mg/l	FN	
AK			mg/l		
AL			mg/l		
AM			mg/l		
AN	0,049	0,008	mg/l	94%	-0,67
AO			mg/l		



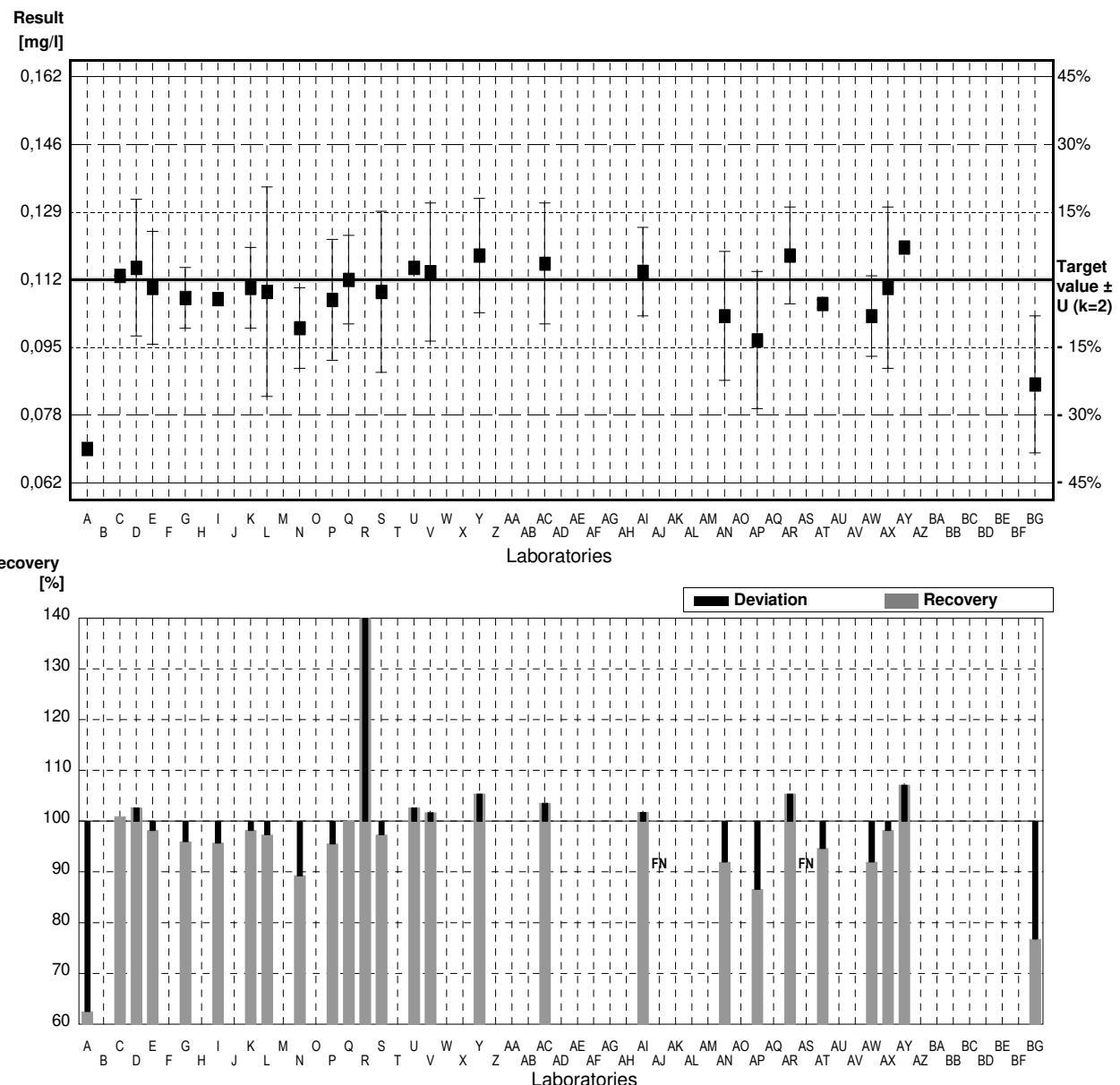
AP	0,047	0,008	mg/l	90%	-1,12
AQ			mg/l		
AR	0,056	0,006	mg/l	108%	0,89
AS	<0,10		mg/l	*	
AT	0,049	0,001	mg/l	94%	-0,67
AU			mg/l		
AV			mg/l		
AW	0,049	0,01	mg/l	94%	-0,67
AX	0,06	0,012	mg/l	115%	1,79
AY	0,06		mg/l	115%	1,79
AZ			mg/l		
BA			mg/l		
BB			mg/l		
BC			mg/l		
BD			mg/l		
BE			mg/l		
BF			mg/l		
BG	0,047	0,009	mg/l	90%	-1,12
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	2,187 ± 5,978	0,052 ± 0,002	mg/l		
Recov. ± CI(99%)	4205,4 ± 11496,	99,4 ± 4,6	%		
SD between labs	10,676	0,004	mg/l		
RSD between labs	488,2	8,0	%		
n for calculation	25	24			

Sample N148B

Parameter Boron

Target value $\pm U$ ($k=2$) 0,112 mg/l \pm 0,001 mg/l
 IFA result $\pm U$ ($k=2$) 0,112 mg/l \pm 0,011 mg/l

Stability test					
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,07 *	0	mg/l	63%	-4,36
B			mg/l		
C	0,113	0,0001	mg/l	101%	0,10
D	0,115	0,017	mg/l	103%	0,31
E	0,110	0,014	mg/l	98%	-0,21
F			mg/l		
G	0,1075	0,0075	mg/l	96%	-0,47
H			mg/l		
I	0,1072		mg/l	96%	-0,50
J			mg/l		
K	0,11	0,01	mg/l	98%	-0,21
L	0,109	0,026	mg/l	97%	-0,31
M	n.b.		mg/l		
N	0,1	0,01	mg/l	89%	-1,25
O			mg/l		
P	0,107	0,015	mg/l	96%	-0,52
Q	0,112	0,011	mg/l	100%	0,00
R	113,618 *	11,13	mg/l	101445%	11784,26
S	0,109	0,02	mg/l	97%	-0,31
T			mg/l		
U	0,115	0,001	mg/l	103%	0,31
V	0,1139	0,0171	mg/l	102%	0,20
W			mg/l		
X			mg/l		
Y	0,118	0,0142	mg/l	105%	0,62
Z			mg/l		
AA			mg/l		
AB			mg/l		
AC	0,116	0,015	mg/l	104%	0,42
AD			mg/l		
AE			mg/l		
AF			mg/l		
AG			mg/l		
AH			mg/l		
AI	0,114	0,011	mg/l	102%	0,21
AJ	<0,02		mg/l	FN	
AK			mg/l		
AL			mg/l		
AM			mg/l		
AN	0,103	0,016	mg/l	92%	-0,93
AO			mg/l		



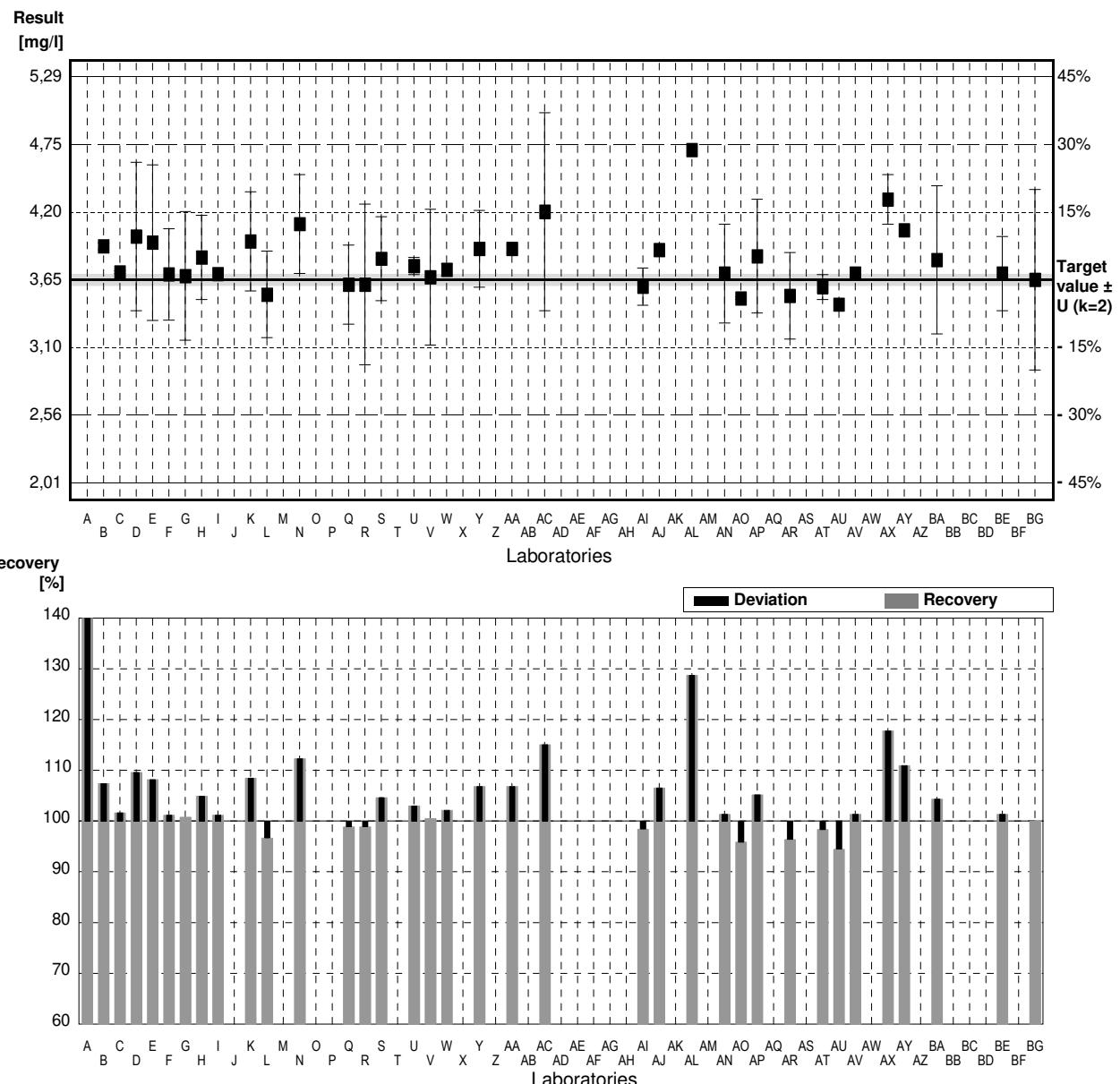
AP	0,097	0,017	mg/l	87%	-1,56
AQ			mg/l		
AR	0,118	0,012	mg/l	105%	0,62
AS	<0,10		mg/l	FN	
AT	0,106	0,001	mg/l	95%	-0,62
AU			mg/l		
AV			mg/l		
AW	0,103	0,01	mg/l	92%	-0,93
AX	0,11	0,02	mg/l	98%	-0,21
AY	0,12		mg/l	107%	0,83
AZ			mg/l		
BA			mg/l		
BB			mg/l		
BC			mg/l		
BD			mg/l		
BE			mg/l		
BF			mg/l		
BG	0,086 *	0,017	mg/l	77%	-2,70
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	4,473 ± 12,181	0,110 ± 0,003	mg/l		
Recov. ± CI(99%)	3994,1 ± 10875,	98,4 ± 3,1	%		
SD between labs	22,261	0,006	mg/l		
RSD between labs	497,6	5,4	%		
n for calculation	26	23			

Sample N148A

Parameter DOC

Target value $\pm U$ ($k=2$) 3,65 mg/l \pm 0,05 mg/l
 IFA result $\pm U$ ($k=2$) 3,68 mg/l \pm 0,15 mg/l
 Stability test $\pm U$ ($k=2$) 3,65 mg/l \pm 0,15 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	5,42 *	0,1	mg/l	148%	8,08
B	3,92	0,028	mg/l	107%	1,23
C	3,71	0,010	mg/l	102%	0,27
D	4,00	0,6	mg/l	110%	1,60
E	3,95	0,63	mg/l	108%	1,37
F	3,693	0,3693	mg/l	101%	0,20
G	3,68	0,52	mg/l	101%	0,14
H	3,83	0,34	mg/l	105%	0,82
I	3,695		mg/l	101%	0,21
J			mg/l		
K	3,96	0,4	mg/l	108%	1,42
L	3,53	0,35	mg/l	97%	-0,55
M	n.b.		mg/l		
N	4,1	0,4	mg/l	112%	2,05
O			mg/l		
P			mg/l		
Q	3,61	0,32	mg/l	99%	-0,18
R	3,61	0,65	mg/l	99%	-0,18
S	3,82	0,34	mg/l	105%	0,78
T			mg/l		
U	3,76	0,07	mg/l	103%	0,50
V	3,67	0,55	mg/l	101%	0,09
W	3,73	0,05	mg/l	102%	0,37
X			mg/l		
Y	3,9	0,31	mg/l	107%	1,14
Z			mg/l		
AA	3,90	0,03	mg/l	107%	1,14
AB			mg/l		
AC	4,2	0,8	mg/l	115%	2,51
AD			mg/l		
AE			mg/l		
AF			mg/l		
AG			mg/l		
AH			mg/l		
AI	3,593	0,15	mg/l	98%	-0,26
AJ	3,89		mg/l	107%	1,10
AK			mg/l		
AL	4,7 *		mg/l	129%	4,79
AM			mg/l		
AN	3,7	0,4	mg/l	101%	0,23
AO	3,5	0,01	mg/l	96%	-0,68



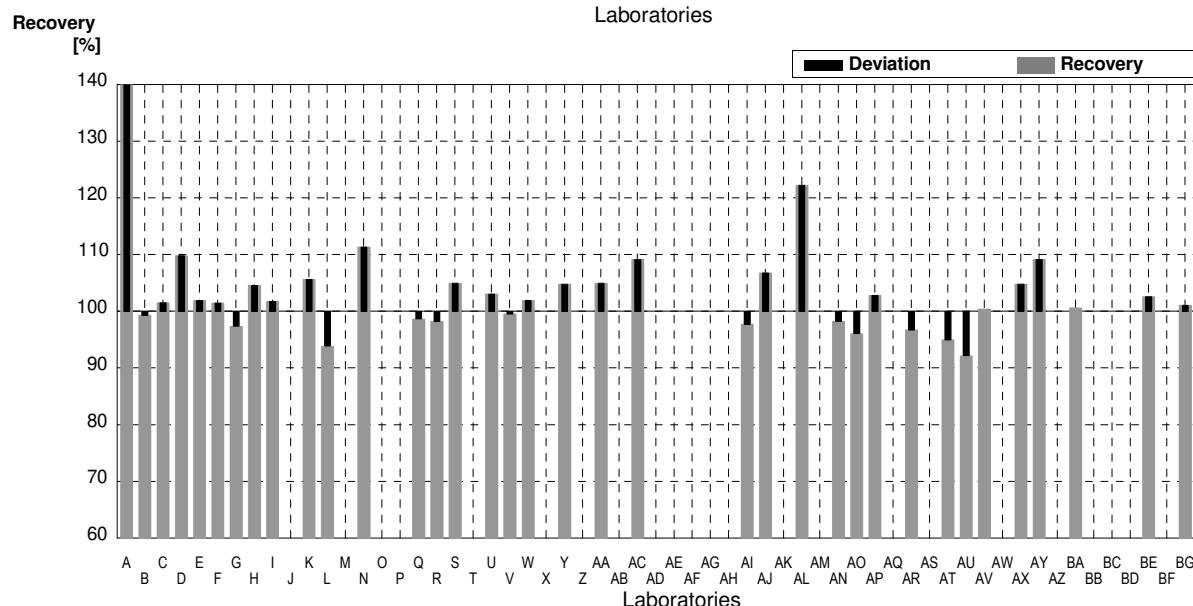
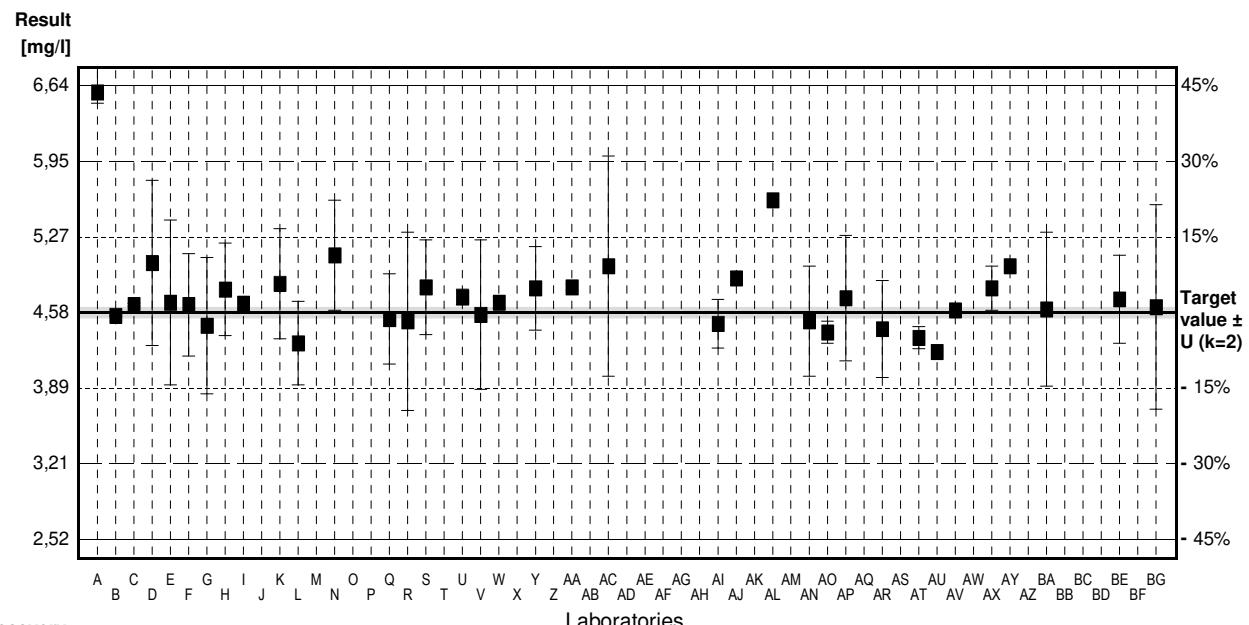
AP	3,84	0,46	mg/l	105%	0,87
AQ			mg/l		
AR	3,52	0,35	mg/l	96%	-0,59
AS			mg/l		
AT	3,59	0,1	mg/l	98%	-0,27
AU	3,449		mg/l	94%	-0,92
AV	3,7		mg/l	101%	0,23
AW			mg/l		
AX	4,3	0,2	mg/l	118%	2,97
AY	4,05		mg/l	111%	1,83
AZ			mg/l		
BA	3,81	0,6	mg/l	104%	0,73
BB			mg/l		
BC			mg/l		
BD			mg/l		
BE	3,7	0,3	mg/l	101%	0,23
BF			mg/l		
BG	3,65	0,73	mg/l	100%	0,00
	All results	Outliers excl.		Unit	
Mean ± CI(99%)	$3,85 \pm 0,17$	$3,78 \pm 0,09$		mg/l	
Recov. ± CI(99%)	$105,5 \pm 4,6$	$103,6 \pm 2,6$		%	
SD between labs	0,37	0,20		mg/l	
RSD between labs	9,5	5,3		%	
n for calculation	36	34			

Sample N148B

Parameter DOC

Target value $\pm U$ ($k=2$) 4,58 mg/l \pm 0,05 mg/l
 IFA result $\pm U$ ($k=2$) 4,57 mg/l \pm 0,18 mg/l
 Stability test $\pm U$ ($k=2$) 4,50 mg/l \pm 0,18 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	6,58 *	0,1	mg/l	144%	7,28
B	4,55	0,007	mg/l	99%	-0,11
C	4,65	0,012	mg/l	102%	0,25
D	5,03	0,75	mg/l	110%	1,64
E	4,67	0,75	mg/l	102%	0,33
F	4,649	0,4649	mg/l	102%	0,25
G	4,46	0,62	mg/l	97%	-0,44
H	4,79	0,42	mg/l	105%	0,76
I	4,66		mg/l	102%	0,29
J			mg/l		
K	4,84	0,5	mg/l	106%	0,95
L	4,3	0,38	mg/l	94%	-1,02
M	n.b.		mg/l		
N	5,1	0,5	mg/l	111%	1,89
O			mg/l		
P			mg/l		
Q	4,52	0,41	mg/l	99%	-0,22
R	4,5	0,81	mg/l	98%	-0,29
S	4,81	0,43	mg/l	105%	0,84
T			mg/l		
U	4,72	0,07	mg/l	103%	0,51
V	4,56	0,68	mg/l	100%	-0,07
W	4,67	0,05	mg/l	102%	0,33
X			mg/l		
Y	4,8	0,38	mg/l	105%	0,80
Z			mg/l		
AA	4,81	0,03	mg/l	105%	0,84
AB			mg/l		
AC	5,0	1	mg/l	109%	1,53
AD			mg/l		
AE			mg/l		
AF			mg/l		
AG			mg/l		
AH			mg/l		
AI	4,477	0,22	mg/l	98%	-0,37
AJ	4,89		mg/l	107%	1,13
AK			mg/l		
AL	5,6 *		mg/l	122%	3,71
AM			mg/l		
AN	4,5	0,5	mg/l	98%	-0,29
AO	4,4	0,1	mg/l	96%	-0,66



AP	4,71	0,57	mg/l	103%	0,47
AQ			mg/l		
AR	4,43	0,44	mg/l	97%	-0,55
AS			mg/l		
AT	4,35	0,1	mg/l	95%	-0,84
AU	4,223		mg/l	92%	-1,30
AV	4,6		mg/l	100%	0,07
AW			mg/l		
AX	4,8	0,2	mg/l	105%	0,80
AY	5,0		mg/l	109%	1,53
AZ			mg/l		
BA	4,61	0,7	mg/l	101%	0,11
BB			mg/l		
BC			mg/l		
BD			mg/l		
BE	4,7	0,4	mg/l	103%	0,44
BF			mg/l		
BG	4,63	0,93	mg/l	101%	0,18
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	4,74 \pm 0,19	4,66 \pm 0,10	mg/l		
Recov. \pm CI(99%)	103,5 \pm 4,0	101,7 \pm 2,2	%		
SD between labs	0,41	0,21	mg/l		
RSD between labs	8,6	4,5	%		
n for calculation	36	34			

Sample N148A

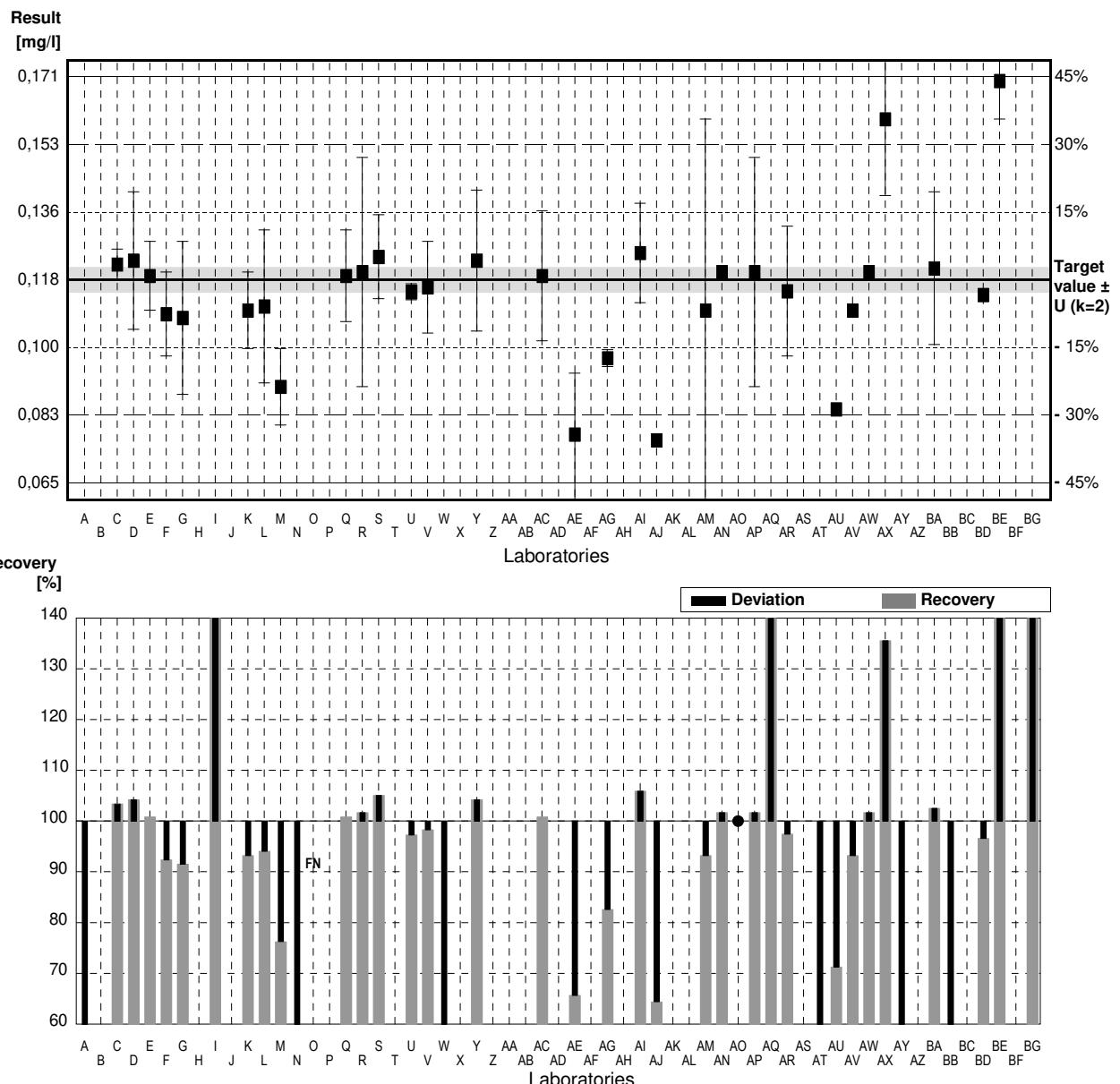
Parameter Total P (as PO₄)

Target value $\pm U$ ($k=2$) 0,118 mg/l \pm 0,003 mg/l

IFA result $\pm U$ ($k=2$) 0,121 mg/l \pm 0,028 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,0331 *	0,006	mg/l	28%	-6,54
B			mg/l		
C	0,122	0,004	mg/l	103%	0,31
D	0,123	0,018	mg/l	104%	0,39
E	0,119	0,009	mg/l	101%	0,08
F	0,109	0,011	mg/l	92%	-0,69
G	0,108	0,020	mg/l	92%	-0,77
H			mg/l		
I	0,187 *		mg/l	158%	5,32
J			mg/l		
K	0,11	0,01	mg/l	93%	-0,62
L	0,111	0,020	mg/l	94%	-0,54
M	0,09	0,01	mg/l	76%	-2,16
N	0,045 *	0,009	mg/l	38%	-5,62
O	<0,01		mg/l	FN	
P			mg/l		
Q	0,119	0,012	mg/l	101%	0,08
R	0,12	0,03	mg/l	102%	0,15
S	0,124	0,011	mg/l	105%	0,46
T			mg/l		
U	0,1148	0,0021	mg/l	97%	-0,25
V	0,116	0,012	mg/l	98%	-0,15
W	0,011 *	0,005	mg/l	9%	-8,24
X			mg/l		
Y	0,123	0,0184	mg/l	104%	0,39
Z			mg/l		
AA			mg/l		
AB			mg/l		
AC	0,119	0,017	mg/l	101%	0,08
AD			mg/l		
AE	0,0775 *	0,016	mg/l	66%	-3,12
AF			mg/l		
AG	0,0975	0,0022	mg/l	83%	-1,58
AH			mg/l		
AI	0,125	0,013	mg/l	106%	0,54
AJ	0,076 *		mg/l	64%	-3,24
AK			mg/l		
AL			mg/l		
AM	0,11	0,05	mg/l	93%	-0,62
AN	0,12		mg/l	102%	0,15
AO	<0,153		mg/l	*	



AP	0,12	0,03	mg/l	102%	0,15
AQ	1,2 *		mg/l	1017%	83,36
AR	0,115	0,017	mg/l	97%	-0,23
AS			mg/l		
AT	0,063 *	0,001	mg/l	53%	-4,24
AU	0,0841		mg/l	71%	-2,61
AV	0,110		mg/l	93%	-0,62
AW	0,12		mg/l	102%	0,15
AX	0,16 *	0,02	mg/l	136%	3,24
AY	0,05 *		mg/l	42%	-5,24
AZ			mg/l		
BA	0,121	0,02	mg/l	103%	0,23
BB	0,044 *	0,03	mg/l	37%	-5,70
BC			mg/l		
BD	0,114		mg/l	97%	-0,31
BE	0,17 *	0,01	mg/l	144%	4,01
BF			mg/l		
BG	0,196 *	0,039	mg/l	166%	6,01
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	0,135 \pm 0,078	0,114 \pm 0,006	mg/l		
Recov. \pm CI(99%)	114,7 \pm 65,8	96,6 \pm 4,7	%		
SD between labs	0,179	0,010	mg/l		
RSD between labs	132,3	8,9	%		
n for calculation	39	26			

Sample N148B

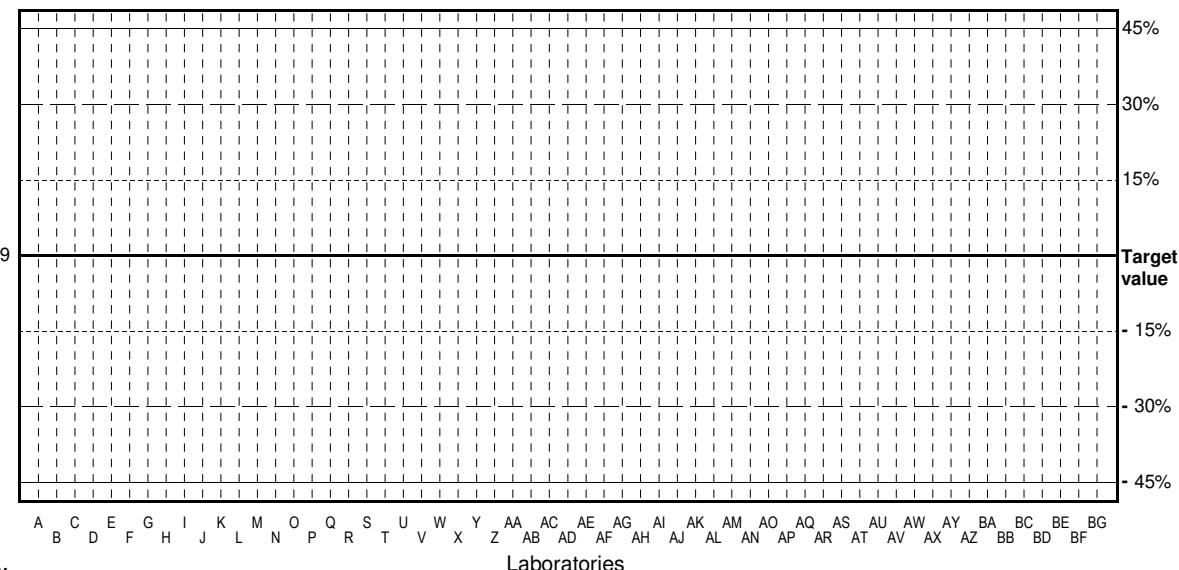
Parameter Total P (as PO₄)

Target value <0,009 mg/l
IFA result <0,009 mg/l

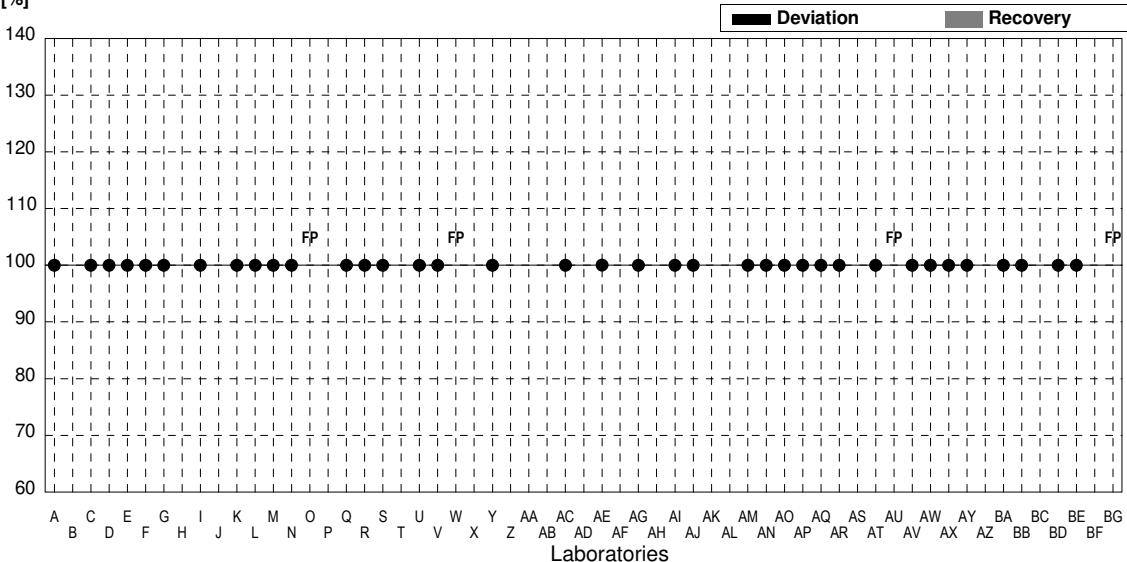
Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	<0,0245	0,008	mg/l	•	
B			mg/l		
C	<0,015		mg/l	•	
D	<0,01		mg/l	•	
E	<0,015		mg/l	•	
F	<0,005		mg/l	•	
G	<0,009	0,002	mg/l	•	
H			mg/l		
I	<0,1		mg/l	•	
J			mg/l		
K	<0,05		mg/l	•	
L	<0,012		mg/l	•	
M	<0,02		mg/l	•	
N	<0,030		mg/l	•	
O	0,116	0,013	mg/l	FP	
P			mg/l		
Q	<0,006		mg/l	•	
R	<0,015		mg/l	•	
S	<0,05		mg/l	•	
T			mg/l		
U	[0,0022]		mg/l	•	
V	<0,0010		mg/l	•	
W	0,044	0,005	mg/l	FP	
X			mg/l		
Y	<0,015		mg/l	•	
Z			mg/l		
AA			mg/l		
AB			mg/l		
AC	<0,010		mg/l	•	
AD			mg/l		
AE	0	0	mg/l	•	
AF			mg/l		
AG	<0,006		mg/l	•	
AH			mg/l		
AI	<0,009	0,013	mg/l	•	
AJ	<0,002		mg/l	•	
AK			mg/l		
AL			mg/l		
AM	<0,05	0	mg/l	•	
AN	<0,015		mg/l	•	
AO	<0,153		mg/l	•	

Result
[mg/l]



Recovery
[%]



AP	<0,015		mg/l	•	
AQ	<0,2		mg/l	•	
AR	<0,031		mg/l	•	
AS			mg/l		
AT	0,006	0,001	mg/l	•	
AU	0,0547		mg/l	FP	
AV	<0,01		mg/l	•	
AW	<0,01		mg/l	•	
AX	<0,15		mg/l	•	
AY	<0,05		mg/l	•	
AZ			mg/l		
BA	<0,013		mg/l	•	
BB	<0,015		mg/l	•	
BC			mg/l		
BD	<0,006		mg/l	•	
BE	<0,06		mg/l	•	
BF			mg/l		
BG	0,052	0,010	mg/l	FP	
	All results	Outliers excl.	Unit		
Mean ± CI(99%)			mg/l		
Recov. ± CI(99%)			%		
SD between labs			mg/l		
RSD between labs			%		
n for calculation					

Sample N148A

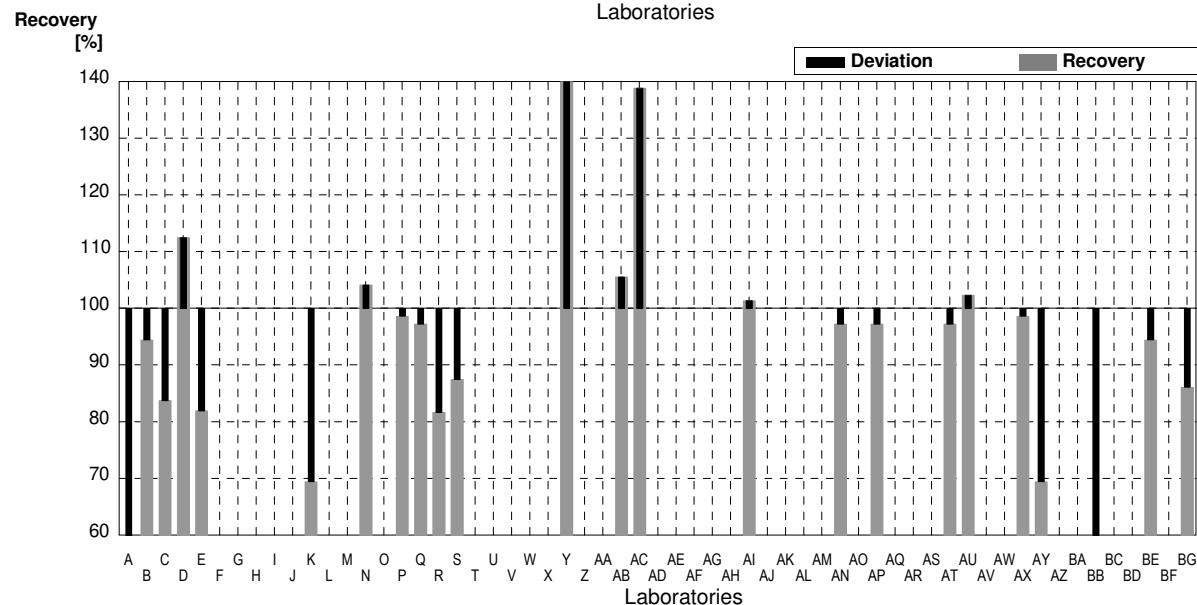
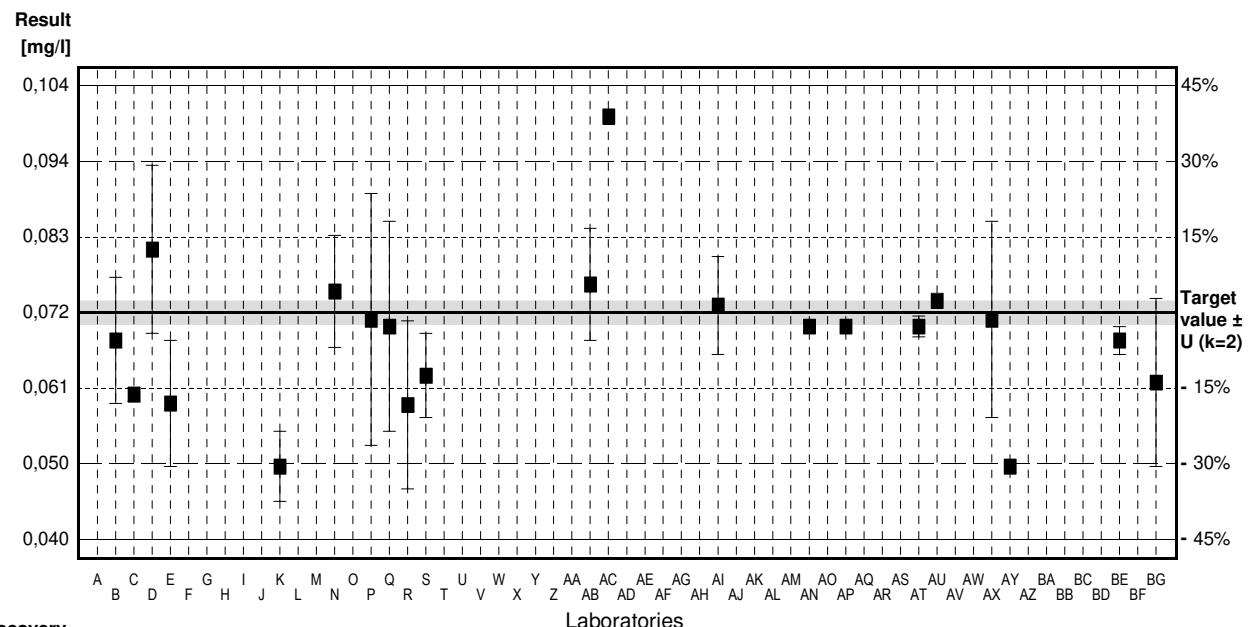
Parameter Cyanide

Target value $\pm U$ ($k=2$) 0,072 mg/l \pm 0,002 mg/l

IFA result $\pm U$ ($k=2$) 0,071 mg/l \pm 0,007 mg/l

Stability test $\pm U$ ($k=2$) 0,071 mg/l \pm 0,007 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,0211 *	0,006	mg/l	29%	-3,93
B	0,068	0,009	mg/l	94%	-0,31
C	0,0603	0,001	mg/l	84%	-0,90
D	0,081	0,012	mg/l	113%	0,69
E	0,059	0,009	mg/l	82%	-1,00
F		mg/l			
G		mg/l			
H		mg/l			
I		mg/l			
J		mg/l			
K	0,05	0,005	mg/l	69%	-1,70
L		mg/l			
M	n.b.	mg/l			
N	0,075	0,008	mg/l	104%	0,23
O		mg/l			
P	0,071	0,018	mg/l	99%	-0,08
Q	0,070	0,015	mg/l	97%	-0,15
R	0,0588	0,012	mg/l	82%	-1,02
S	0,063	0,006	mg/l	88%	-0,69
T		mg/l			
U		mg/l			
V		mg/l			
W		mg/l			
X		mg/l			
Y	73,86 *	7,386	mg/l	102583%	5693,52
Z		mg/l			
AA		mg/l			
AB	0,076	0,008	mg/l	106%	0,31
AC	0,1	mg/l		139%	2,16
AD		mg/l			
AE		mg/l			
AF		mg/l			
AG		mg/l			
AH		mg/l			
AI	0,073	0,007	mg/l	101%	0,08
AJ		mg/l			
AK		mg/l			
AL		mg/l			
AM		mg/l			
AN	0,07	mg/l		97%	-0,15
AO		mg/l			



AP	0,07		mg/l	97%	-0,15
AQ			mg/l		
AR			mg/l		
AS			mg/l		
AT	0,070	0,0015	mg/l	97%	-0,15
AU	0,0737		mg/l	102%	0,13
AV			mg/l		
AW			mg/l		
AX	0,071	0,014	mg/l	99%	-0,08
AY	0,05		mg/l	69%	-1,70
AZ			mg/l		
BA			mg/l		
BB	0,037 *	0,004	mg/l	51%	-2,70
BC			mg/l		
BD			mg/l		
BE	0,068	0,002	mg/l	94%	-0,31
BF			mg/l		
BG	0,062	0,012	mg/l	86%	-0,77
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	$3,140 \pm 8,640$	$0,069 \pm 0,007$	mg/l		
Recov. \pm CI(99%)	$4361,0 \pm 12000,$	$95,2 \pm 9,3$	%		
SD between labs	15,063	0,011	mg/l		
RSD between labs	479,7	15,7	%		
n for calculation	24	21			

Sample N148B

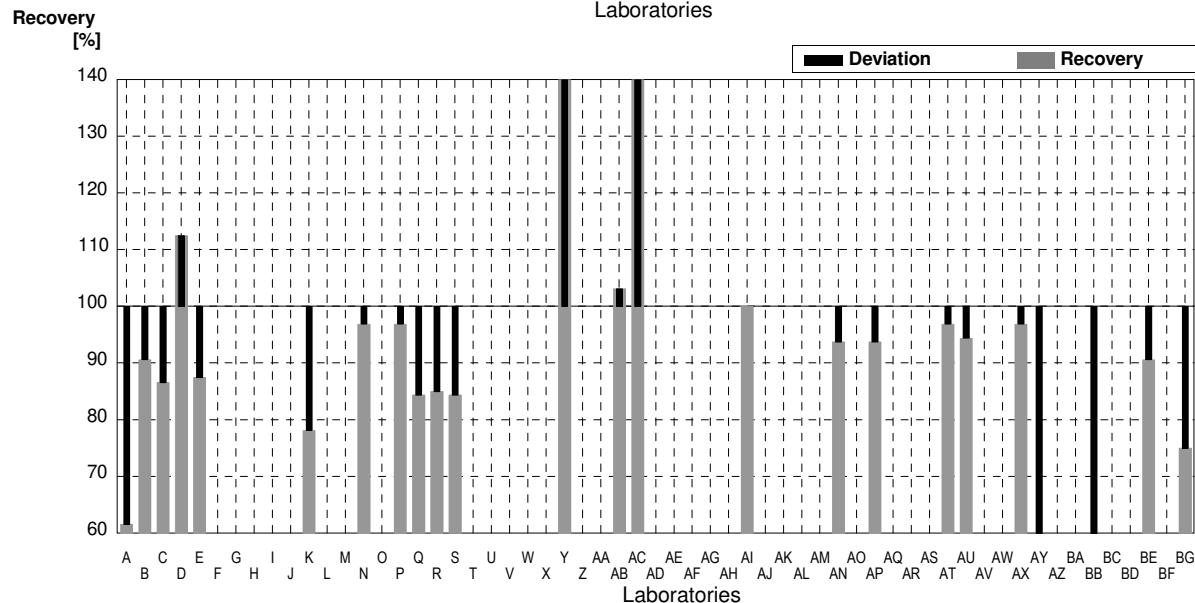
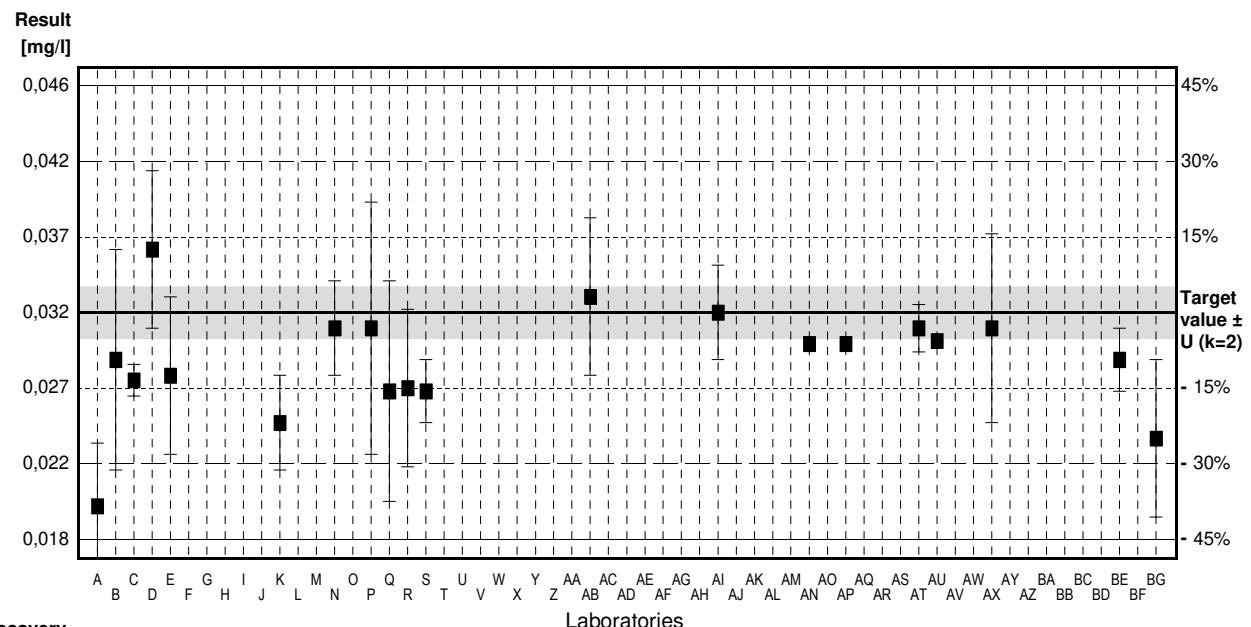
Parameter Cyanide

Target value $\pm U$ ($k=2$) 0,032 mg/l \pm 0,002 mg/l

IFA result $\pm U$ ($k=2$) 0,031 mg/l \pm 0,003 mg/l

Stability test $\pm U$ ($k=2$) 0,031 mg/l \pm 0,003 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,0197	0,004	mg/l	62%	-2,14
B	0,029	0,007	mg/l	91%	-0,52
C	0,0277	0,001	mg/l	87%	-0,75
D	0,036	0,005	mg/l	113%	0,69
E	0,028	0,005	mg/l	88%	-0,69
F		mg/l			
G		mg/l			
H		mg/l			
I		mg/l			
J		mg/l			
K	0,025	0,003	mg/l	78%	-1,22
L		mg/l			
M	n.b.	mg/l			
N	0,031	0,003	mg/l	97%	-0,17
O		mg/l			
P	0,031	0,008	mg/l	97%	-0,17
Q	0,027	0,007	mg/l	84%	-0,87
R	0,0272	0,005	mg/l	85%	-0,83
S	0,027	0,002	mg/l	84%	-0,87
T		mg/l			
U		mg/l			
V		mg/l			
W		mg/l			
X		mg/l			
Y	31,95 *	3,195	mg/l	99844%	5541,32
Z		mg/l			
AA		mg/l			
AB	0,033	0,005	mg/l	103%	0,17
AC	0,05 *		mg/l	156%	3,13
AD		mg/l			
AE		mg/l			
AF		mg/l			
AG		mg/l			
AH		mg/l			
AI	0,032	0,003	mg/l	100%	0,00
AJ		mg/l			
AK		mg/l			
AL		mg/l			
AM		mg/l			
AN	0,03		mg/l	94%	-0,35
AO		mg/l			



AP	0,03		mg/l	94%	-0,35
AQ			mg/l		
AR			mg/l		
AS			mg/l		
AT	0,031	0,0015	mg/l	97%	-0,17
AU	0,0302		mg/l	94%	-0,31
AV			mg/l		
AW			mg/l		
AX	0,031	0,006	mg/l	97%	-0,17
AY	0,016 *		mg/l	50%	-2,78
AZ			mg/l		
BA			mg/l		
BB	0,017 *	0,004	mg/l	53%	-2,60
BC			mg/l		
BD			mg/l		
BE	0,029	0,002	mg/l	91%	-0,52
BF			mg/l		
BG	0,024	0,005	mg/l	75%	-1,39
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	1,359 \pm 3,737	0,029 \pm 0,002	mg/l		
Recov. \pm CI(99%)	4246,3 \pm 11679,	90,4 \pm 7,0	%		
SD between labs	6,516	0,004	mg/l		
RSD between labs	479,5	12,1	%		
n for calculation	24	20			

Illustration of Results Laboratory Oriented Part

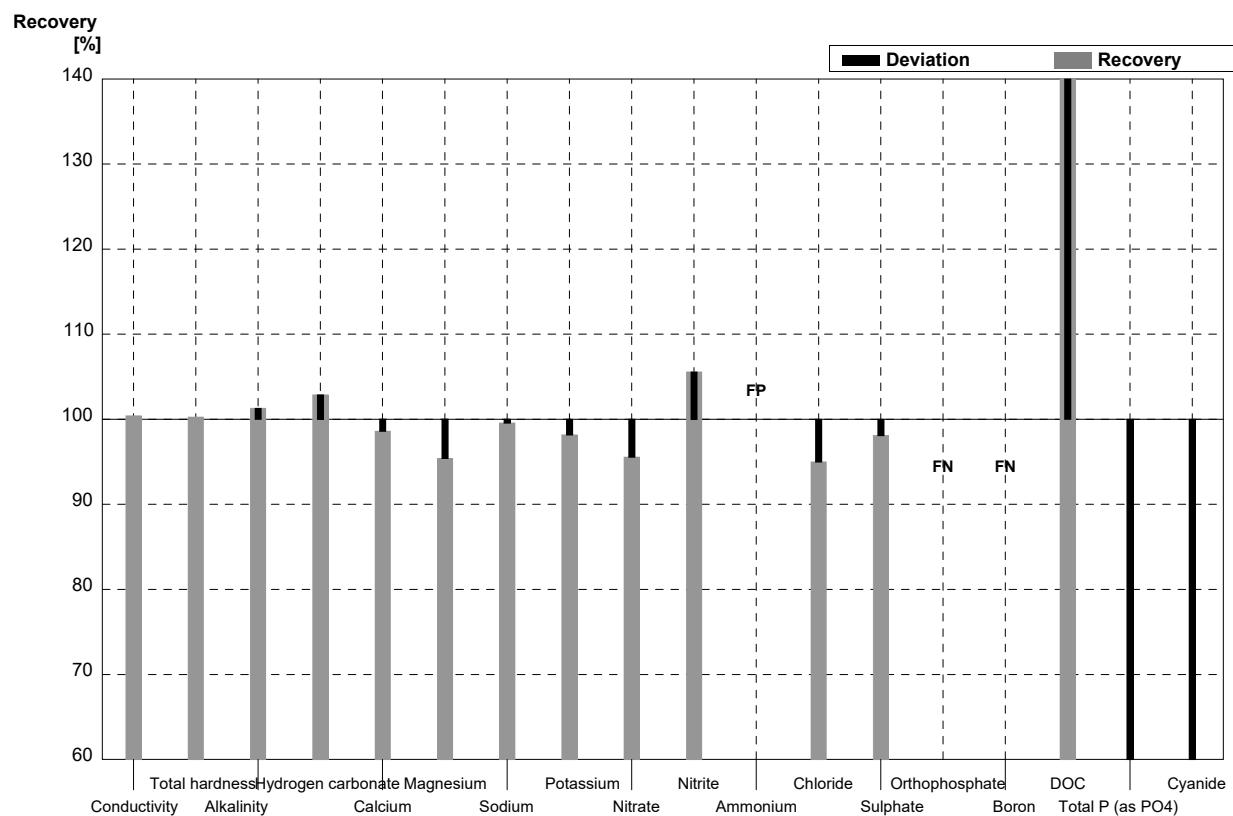
**Round N148
Major Ions**

Sample Dispatch: 2 September 2019



Sample N148A**Laboratory A**

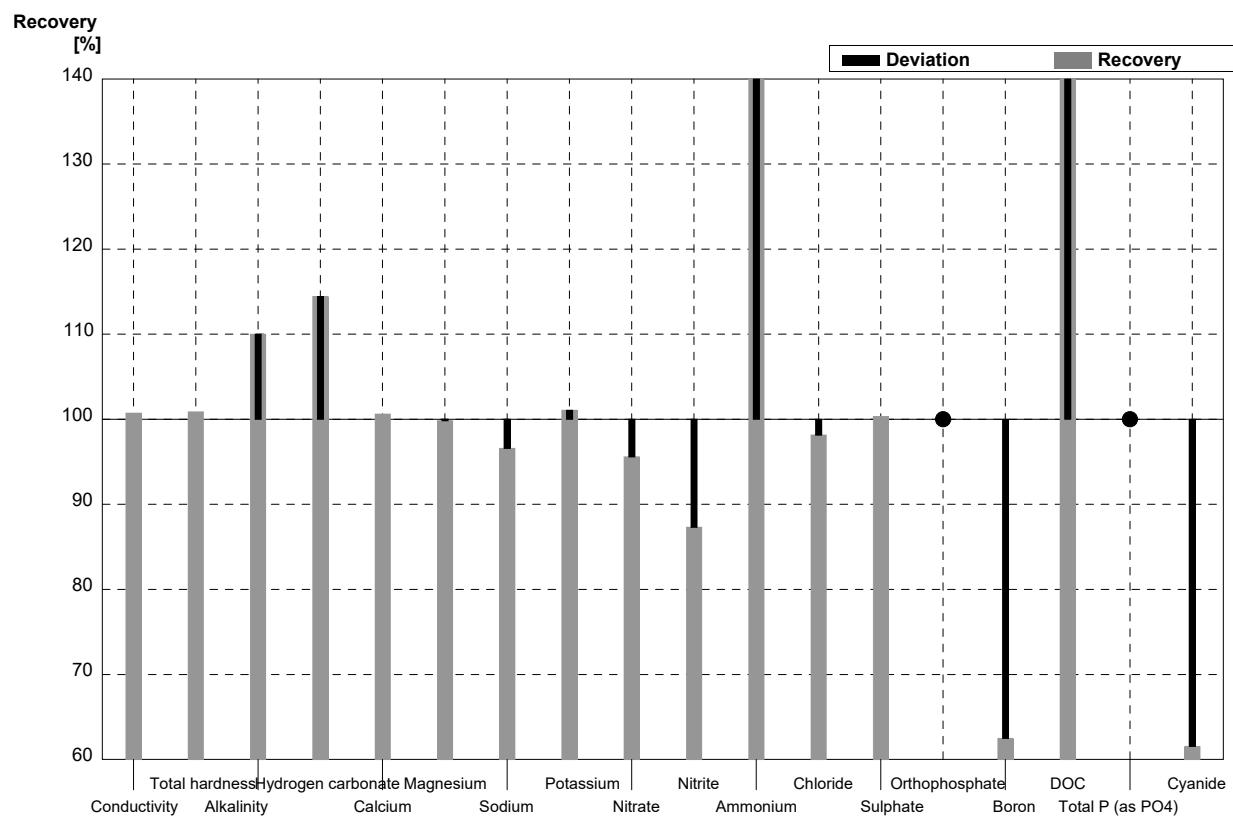
Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	487	2	489	0	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,55	0,02	1,554	0,05	mmol/l	100%
Alkalinity	3,48	0,03	3,525	0	mmol/l	101%
Hydrogen carbonate	209	2	215		mg/l	103%
Calcium	49,7	0,6	49,01	0,47	mg/l	99%
Magnesium	7,41	0,07	7,07	0,21	mg/l	95%
Sodium	38,6	0,4	38,43	2,09	mg/l	100%
Potassium	7,66	0,05	7,52	0,07	mg/l	98%
Nitrate	36,4	0,2	34,78	0,35	mg/l	96%
Nitrite	0,036	0,001	0,038	0	mg/l	106%
Ammonium	<0,01		0,169	0,02	mg/l	FP
Chloride	21,1	0,1	20,042	0,04	mg/l	95%
Sulphate	14,9	0,1	14,616	0,11	mg/l	98%
Orthophosphate	0,055	0,003	<0,0408	0,0005	mg/l	FN
Boron	0,052	0,001	<0,05	0	mg/l	FN
DOC	3,65	0,05	5,42	0,1	mg/l	148%
Total P (as PO ₄)	0,118	0,003	0,0331	0,006	mg/l	28%
Cyanide	0,072	0,002	0,0211	0,006	mg/l	29%



Sample N148B

Laboratory A

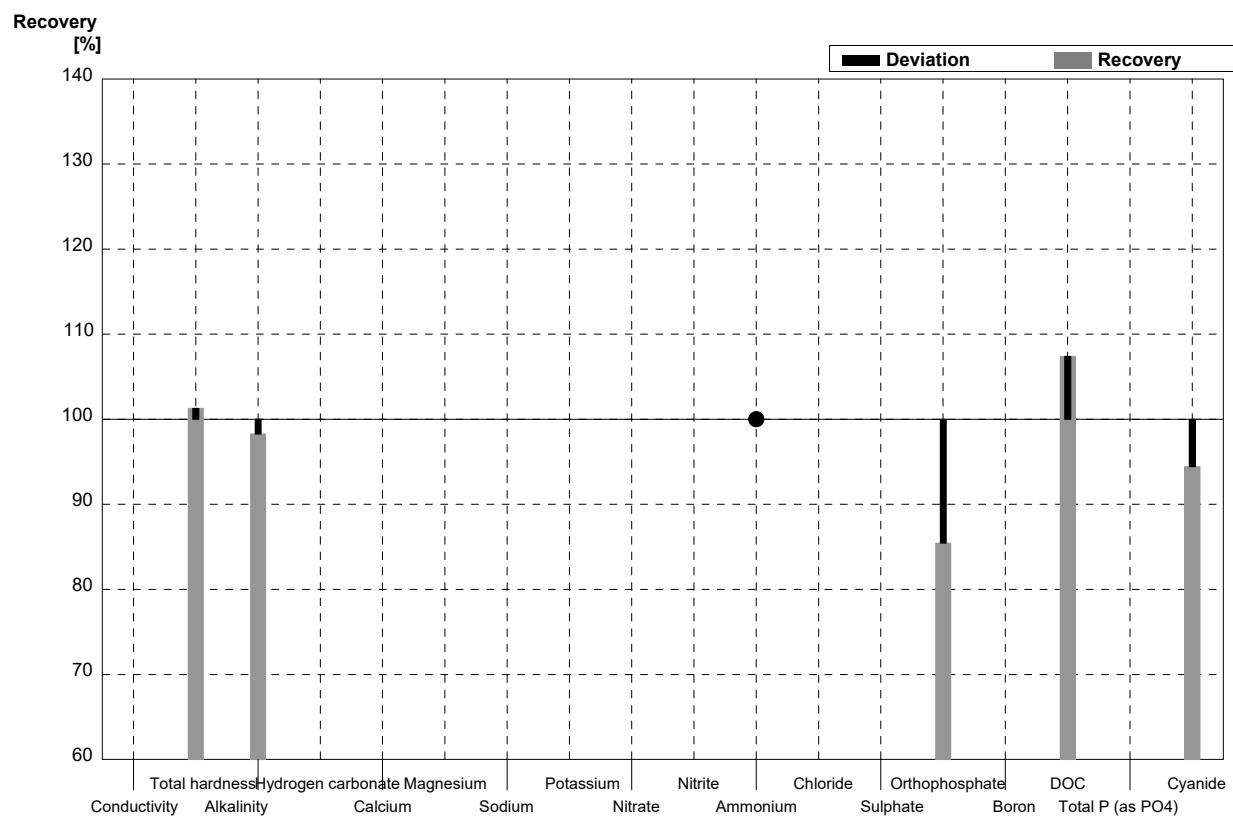
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	555	0	µS/cm	101%
Total hardness	2,27	0,01	2,29	0,08	mmol/l	101%
Alkalinity	1,25	0,01	1,375	0,08	mmol/l	110%
Hydrogen carbonate	73,4	0,9	84		mg/l	114%
Calcium	69,3	0,4	69,73	0,58	mg/l	101%
Magnesium	13,2	0,1	13,18	0,68	mg/l	100%
Sodium	11,4	0,2	11,01	0,79	mg/l	97%
Potassium	1,88	0,05	1,90	0,13	mg/l	101%
Nitrate	73,1	0,4	69,87	0,36	mg/l	96%
Nitrite	0,071	0,002	0,062	0	mg/l	87%
Ammonium	0,075	0,005	0,206	0,02	mg/l	275%
Chloride	57,2	0,3	56,141	0,77	mg/l	98%
Sulphate	50,4	0,3	50,565	0,55	mg/l	100%
Orthophosphate	<0,009		<0,0408	0,001	mg/l	•
Boron	0,112	0,001	0,07	0	mg/l	63%
DOC	4,58	0,05	6,58	0,1	mg/l	144%
Total P (as PO ₄)	<0,009		<0,0245	0,008	mg/l	•
Cyanide	0,032	0,002	0,0197	0,004	mg/l	62%



Sample N148A

Laboratory B

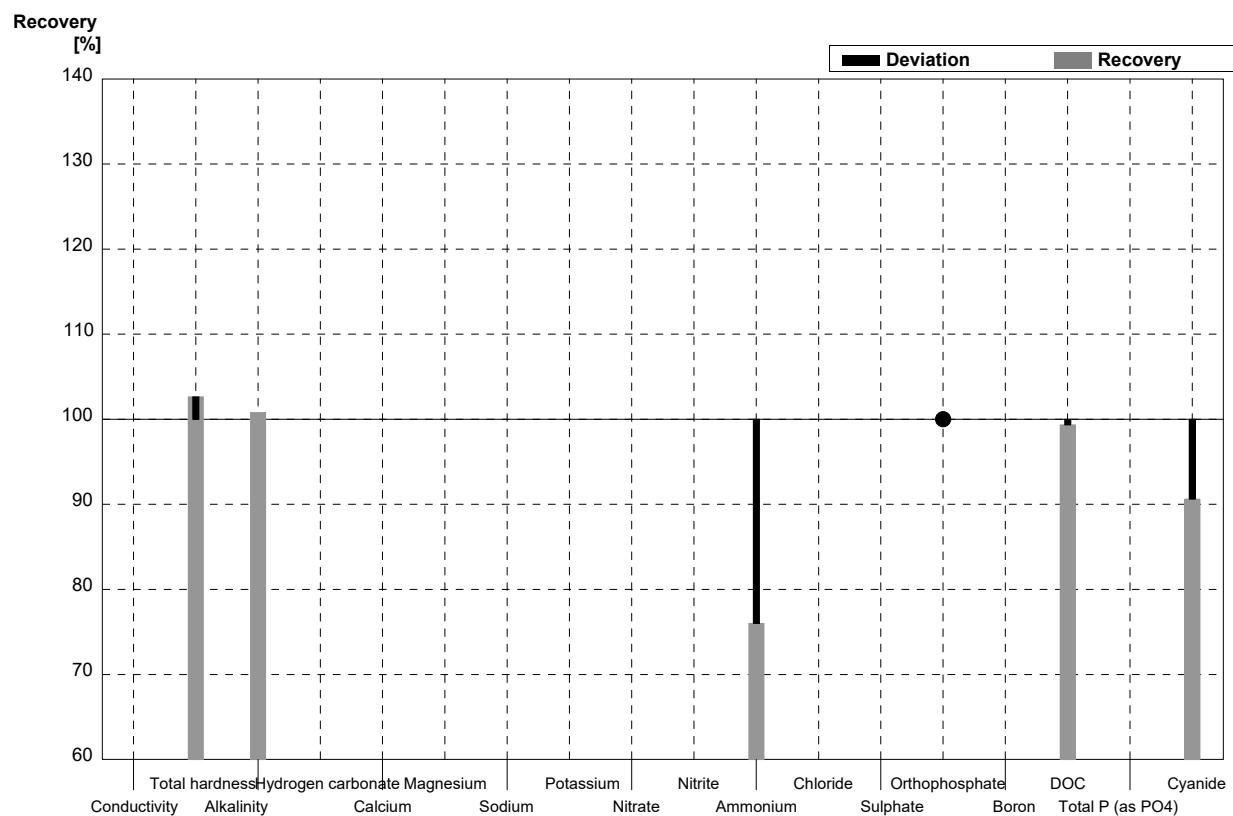
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2			µS/cm	
Total hardness	1,55	0,02	1,57	0,06	mmol/l	101%
Alkalinity	3,48	0,03	3,42	0,01	mmol/l	98%
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6			mg/l	
Magnesium	7,41	0,07			mg/l	
Sodium	38,6	0,4			mg/l	
Potassium	7,66	0,05			mg/l	
Nitrate	36,4	0,2			mg/l	
Nitrite	0,036	0,001			mg/l	
Ammonium	<0,01		0,005	0,0004	mg/l	•
Chloride	21,1	0,1			mg/l	
Sulphate	14,9	0,1			mg/l	
Orthophosphate	0,055	0,003	0,047	0,005	mg/l	85%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05	3,92	0,028	mg/l	107%
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002	0,068	0,009	mg/l	94%



Sample N148B

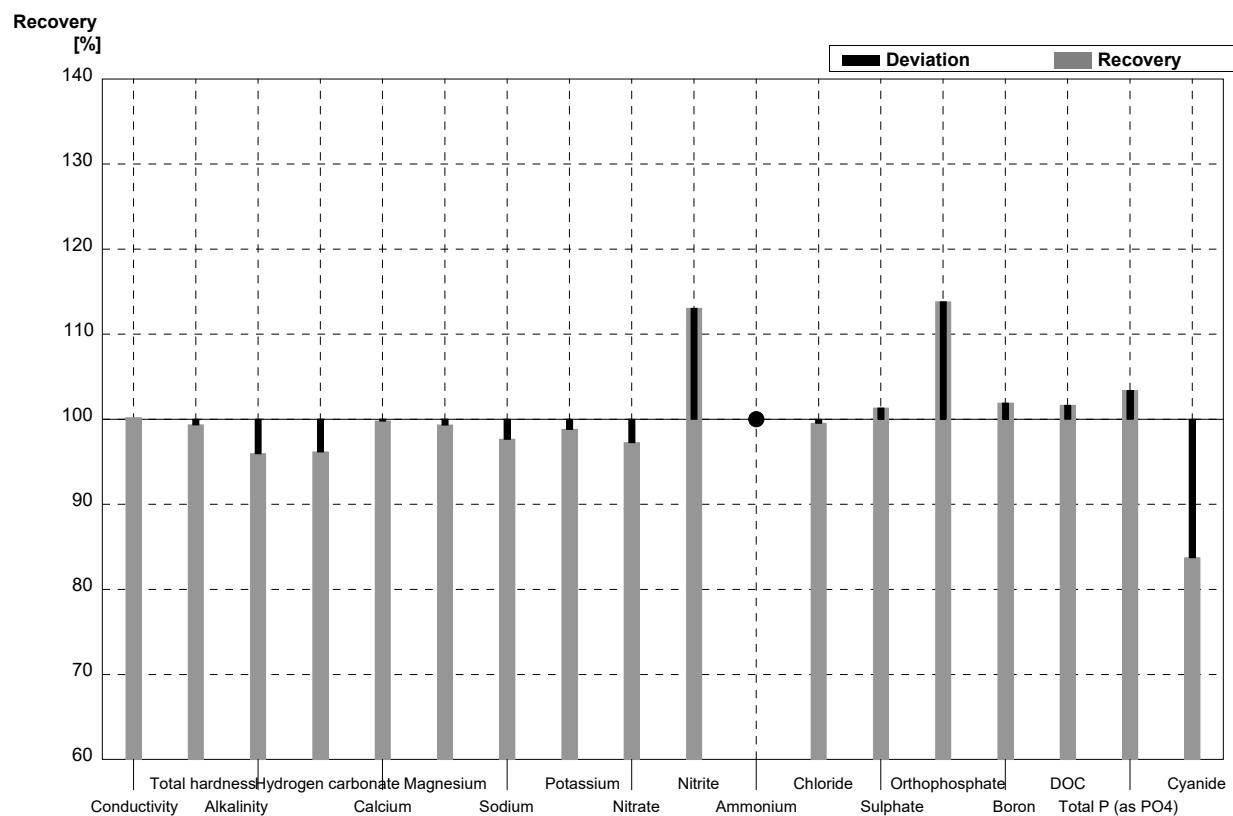
Laboratory B

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2			µS/cm	
Total hardness	2,27	0,01	2,33	0,07	mmol/l	103%
Alkalinity	1,25	0,01	1,26	0,02	mmol/l	101%
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4			mg/l	
Magnesium	13,2	0,1			mg/l	
Sodium	11,4	0,2			mg/l	
Potassium	1,88	0,05			mg/l	
Nitrate	73,1	0,4			mg/l	
Nitrite	0,071	0,002			mg/l	
Ammonium	0,075	0,005	0,057	0,008	mg/l	76%
Chloride	57,2	0,3			mg/l	
Sulphate	50,4	0,3			mg/l	
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05	4,55	0,007	mg/l	99%
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002	0,029	0,007	mg/l	91%



Sample N148A
Laboratory C

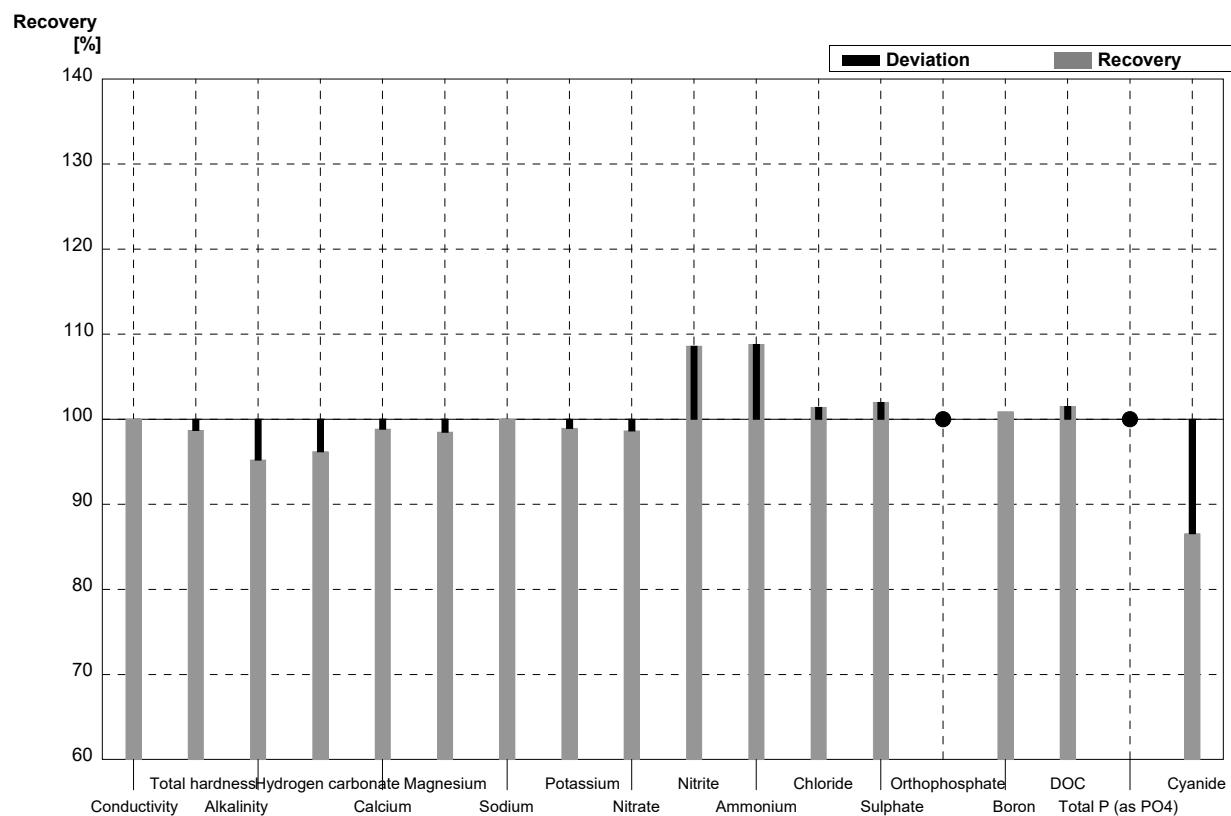
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	488	0,577	µS/cm	100%
Total hardness	1,55	0,02	1,54	0,021	mmol/l	99%
Alkalinity	3,48	0,03	3,34	0,006	mmol/l	96%
Hydrogen carbonate	209	2	201	0,100	mg/l	96%
Calcium	49,7	0,6	49,6	0,681	mg/l	100%
Magnesium	7,41	0,07	7,36	0,099	mg/l	99%
Sodium	38,6	0,4	37,7	0,404	mg/l	98%
Potassium	7,66	0,05	7,57	0,078	mg/l	99%
Nitrate	36,4	0,2	35,4	0,017	mg/l	97%
Nitrite	0,036	0,001	0,0407	0,0001	mg/l	113%
Ammonium	<0,01		<0,010		mg/l	•
Chloride	21,1	0,1	21,0	0,021	mg/l	100%
Sulphate	14,9	0,1	15,1	0,017	mg/l	101%
Orthophosphate	0,055	0,003	0,0626	0,001	mg/l	114%
Boron	0,052	0,001	0,053	0,0006	mg/l	102%
DOC	3,65	0,05	3,71	0,010	mg/l	102%
Total P (as PO ₄)	0,118	0,003	0,122	0,004	mg/l	103%
Cyanide	0,072	0,002	0,0603	0,001	mg/l	84%



Sample N148B

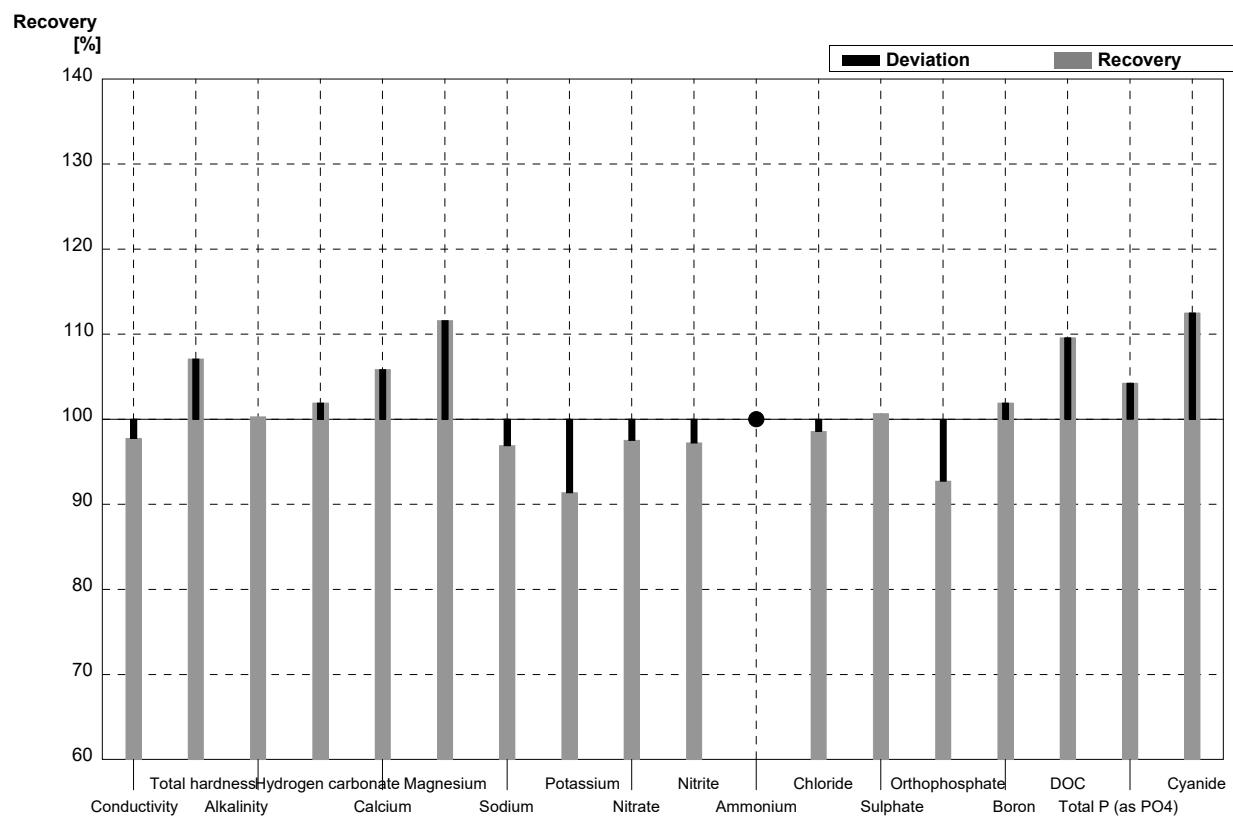
Laboratory C

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	551	0,577	µS/cm	100%
Total hardness	2,27	0,01	2,24	0,006	mmol/l	99%
Alkalinity	1,25	0,01	1,19	0,001	mmol/l	95%
Hydrogen carbonate	73,4	0,9	70,6	0,058	mg/l	96%
Calcium	69,3	0,4	68,5	0,115	mg/l	99%
Magnesium	13,2	0,1	13,0	0,058	mg/l	98%
Sodium	11,4	0,2	11,4	0,058	mg/l	100%
Potassium	1,88	0,05	1,86	0,040	mg/l	99%
Nitrate	73,1	0,4	72,1	0,384	mg/l	99%
Nitrite	0,071	0,002	0,0771	0,0002	mg/l	109%
Ammonium	0,075	0,005	0,0816	0,0011	mg/l	109%
Chloride	57,2	0,3	58,0	0,294	mg/l	101%
Sulphate	50,4	0,3	51,4	0,290	mg/l	102%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,112	0,001	0,113	0,0001	mg/l	101%
DOC	4,58	0,05	4,65	0,012	mg/l	102%
Total P (as PO ₄)	<0,009		<0,015		mg/l	•
Cyanide	0,032	0,002	0,0277	0,001	mg/l	87%



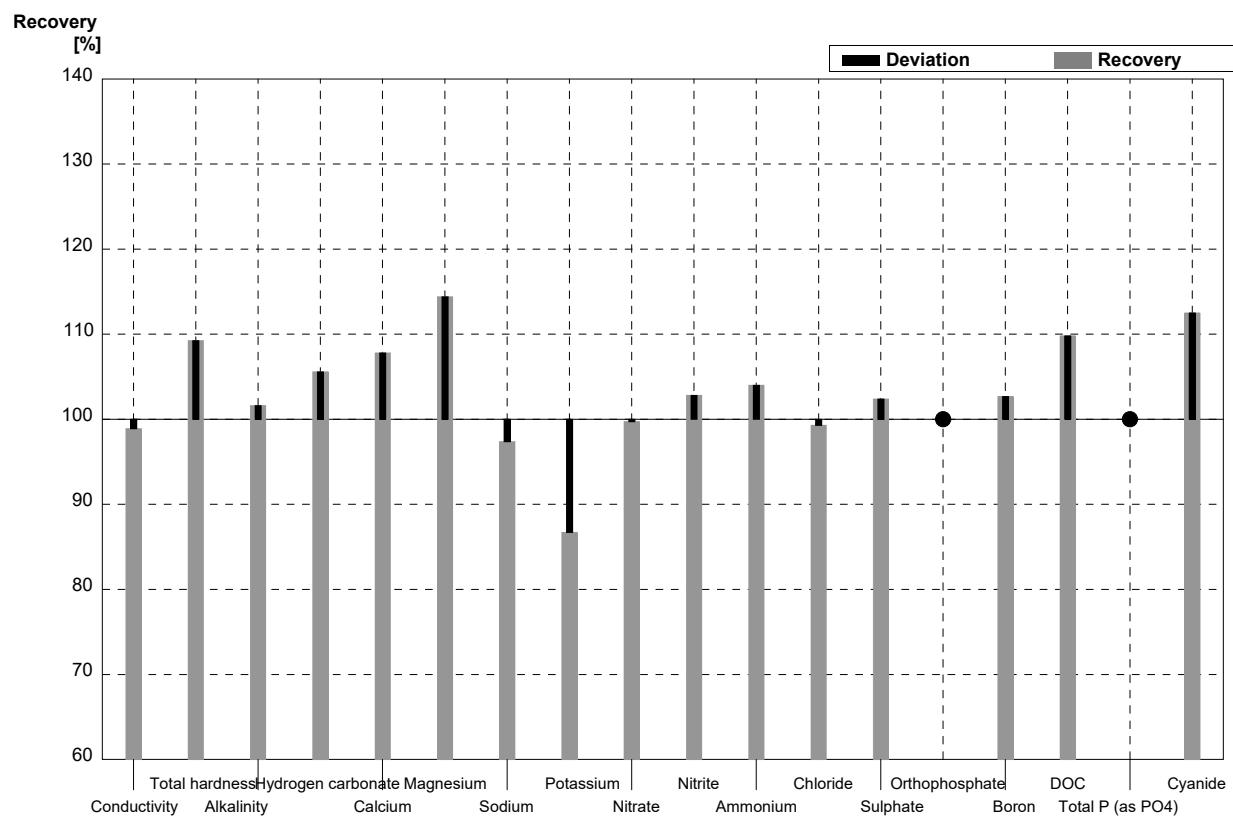
Sample N148A
Laboratory D

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	476	14	µS/cm	98%
Total hardness	1,55	0,02	1,66	0,25	mmol/l	107%
Alkalinity	3,48	0,03	3,49	0,52	mmol/l	100%
Hydrogen carbonate	209	2	213	32	mg/l	102%
Calcium	49,7	0,6	52,6	7,89	mg/l	106%
Magnesium	7,41	0,07	8,27	1,24	mg/l	112%
Sodium	38,6	0,4	37,4	5,61	mg/l	97%
Potassium	7,66	0,05	7,0	1,05	mg/l	91%
Nitrate	36,4	0,2	35,5	5,33	mg/l	98%
Nitrite	0,036	0,001	0,035	0,005	mg/l	97%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	21,1	0,1	20,8	3,12	mg/l	99%
Sulphate	14,9	0,1	15,0	2,25	mg/l	101%
Orthophosphate	0,055	0,003	0,051	0,008	mg/l	93%
Boron	0,052	0,001	0,053	0,008	mg/l	102%
DOC	3,65	0,05	4,00	0,6	mg/l	110%
Total P (as PO ₄)	0,118	0,003	0,123	0,018	mg/l	104%
Cyanide	0,072	0,002	0,081	0,012	mg/l	113%



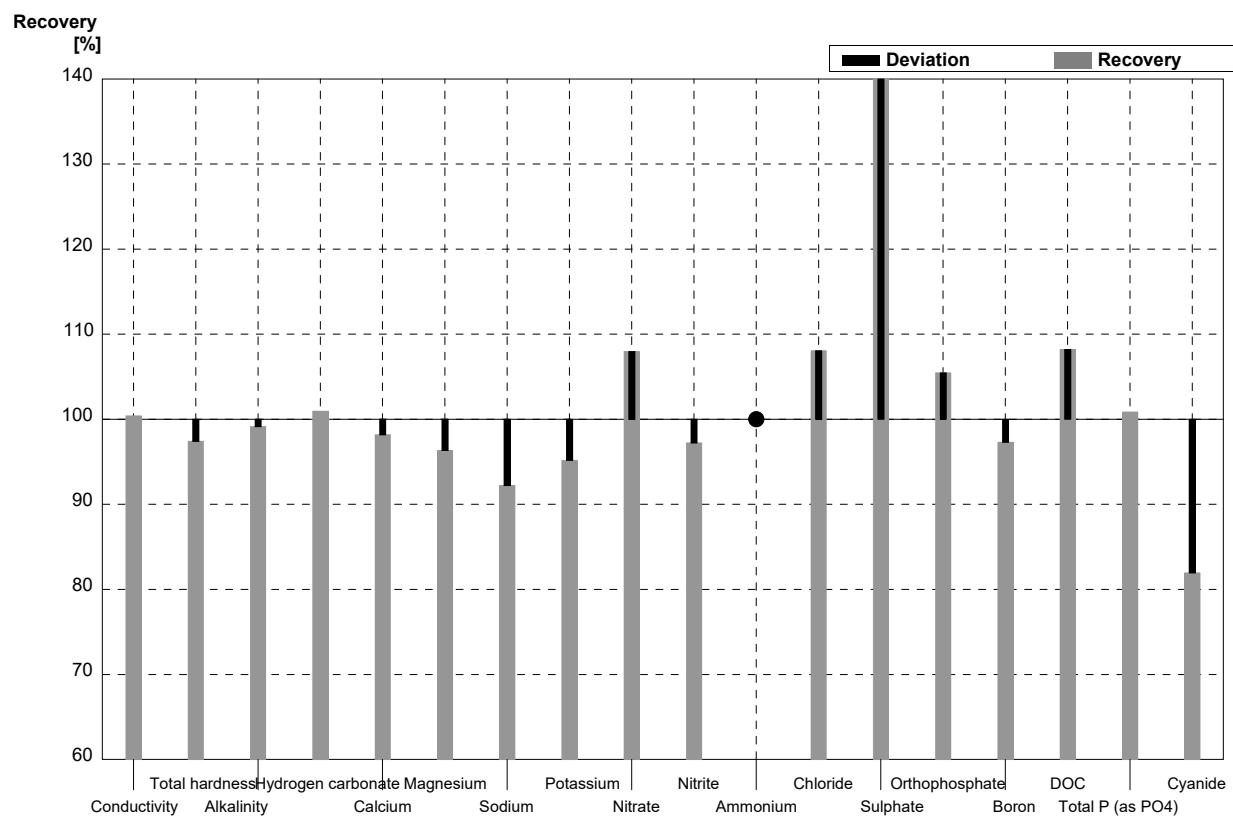
Sample N148B
Laboratory D

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	545	16	µS/cm	99%
Total hardness	2,27	0,01	2,48	0,37	mmol/l	109%
Alkalinity	1,25	0,01	1,27	0,19	mmol/l	102%
Hydrogen carbonate	73,4	0,9	77,5	11,6	mg/l	106%
Calcium	69,3	0,4	74,7	11,2	mg/l	108%
Magnesium	13,2	0,1	15,1	2,27	mg/l	114%
Sodium	11,4	0,2	11,1	1,67	mg/l	97%
Potassium	1,88	0,05	1,63	0,24	mg/l	87%
Nitrate	73,1	0,4	72,9	10,94	mg/l	100%
Nitrite	0,071	0,002	0,073	0,011	mg/l	103%
Ammonium	0,075	0,005	0,078	0,012	mg/l	104%
Chloride	57,2	0,3	56,8	8,52	mg/l	99%
Sulphate	50,4	0,3	51,6	7,74	mg/l	102%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,112	0,001	0,115	0,017	mg/l	103%
DOC	4,58	0,05	5,03	0,75	mg/l	110%
Total P (as PO ₄)	<0,009		<0,01		mg/l	•
Cyanide	0,032	0,002	0,036	0,005	mg/l	113%



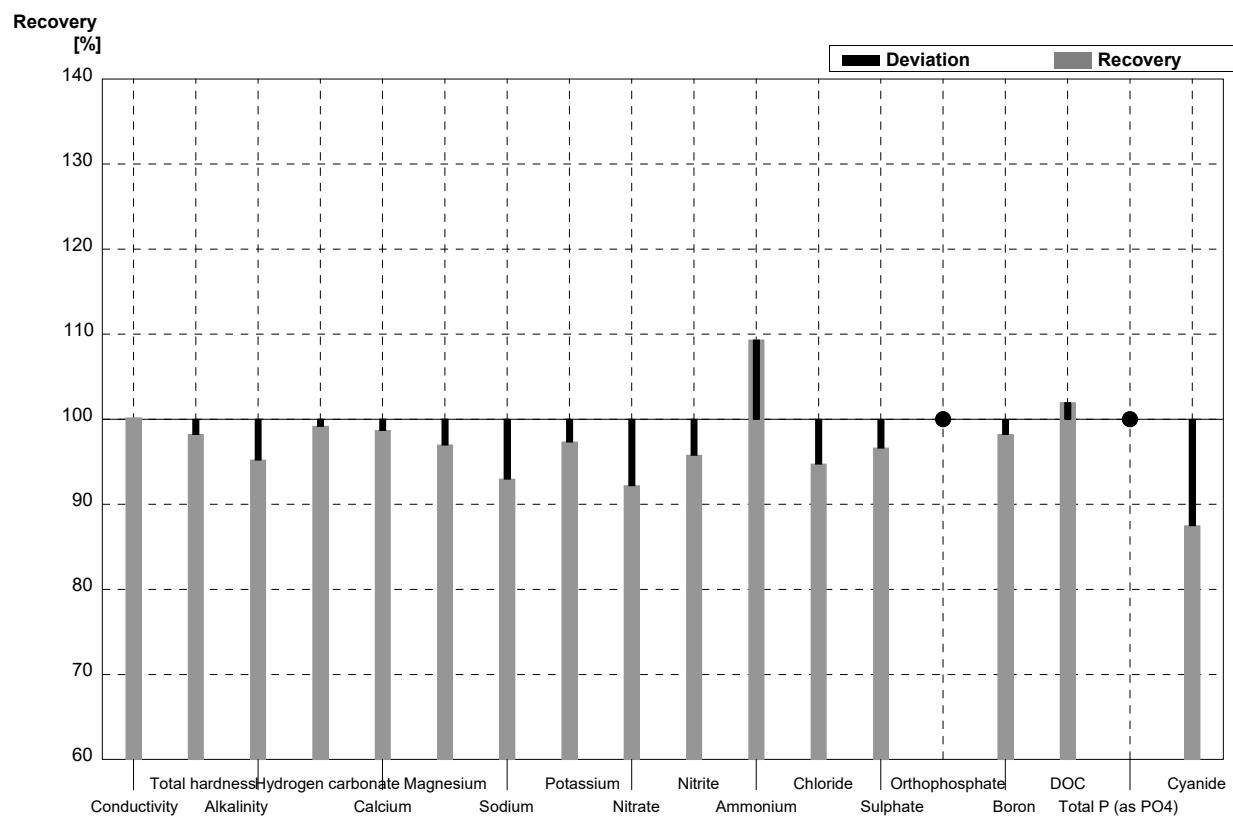
Sample N148A
Laboratory E

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	489	14,7	µS/cm	100%
Total hardness	1,55	0,02	1,51	0,12	mmol/l	97%
Alkalinity	3,48	0,03	3,45	0,17	mmol/l	99%
Hydrogen carbonate	209	2	211	10,1	mg/l	101%
Calcium	49,7	0,6	48,8	2,2	mg/l	98%
Magnesium	7,41	0,07	7,14	0,59	mg/l	96%
Sodium	38,6	0,4	35,6	2,9	mg/l	92%
Potassium	7,66	0,05	7,29	0,52	mg/l	95%
Nitrate	36,4	0,2	39,3	1,3	mg/l	108%
Nitrite	0,036	0,001	0,035	0,004	mg/l	97%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	21,1	0,1	22,8	1,5	mg/l	108%
Sulphate	14,9	0,1	22,2	0,7	mg/l	149%
Orthophosphate	0,055	0,003	0,058	0,004	mg/l	105%
Boron	0,052	0,001	0,0506	0,006	mg/l	97%
DOC	3,65	0,05	3,95	0,63	mg/l	108%
Total P (as PO ₄)	0,118	0,003	0,119	0,009	mg/l	101%
Cyanide	0,072	0,002	0,059	0,009	mg/l	82%



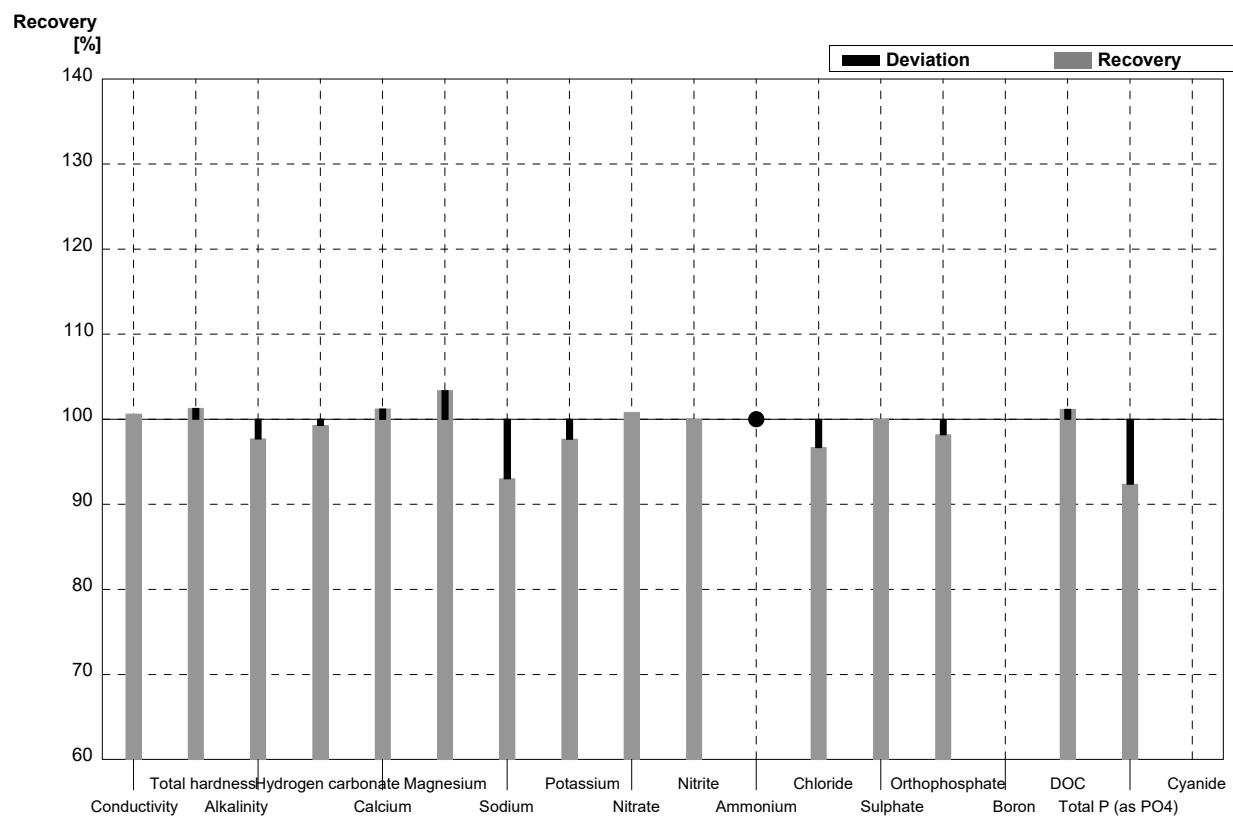
Sample N148B
Laboratory E

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	552	16,6	µS/cm	100%
Total hardness	2,27	0,01	2,23	0,18	mmol/l	98%
Alkalinity	1,25	0,01	1,19	0,06	mmol/l	95%
Hydrogen carbonate	73,4	0,9	72,8	3,5	mg/l	99%
Calcium	69,3	0,4	68,4	3,1	mg/l	99%
Magnesium	13,2	0,1	12,8	1,1	mg/l	97%
Sodium	11,4	0,2	10,6	0,87	mg/l	93%
Potassium	1,88	0,05	1,83	0,13	mg/l	97%
Nitrate	73,1	0,4	67,4	2,2	mg/l	92%
Nitrite	0,071	0,002	0,068	0,007	mg/l	96%
Ammonium	0,075	0,005	0,082	0,006	mg/l	109%
Chloride	57,2	0,3	54,2	3,6	mg/l	95%
Sulphate	50,4	0,3	48,7	1,6	mg/l	97%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,112	0,001	0,110	0,014	mg/l	98%
DOC	4,58	0,05	4,67	0,75	mg/l	102%
Total P (as PO ₄)	<0,009		<0,015		mg/l	•
Cyanide	0,032	0,002	0,028	0,005	mg/l	88%



Sample N148A**Laboratory F**

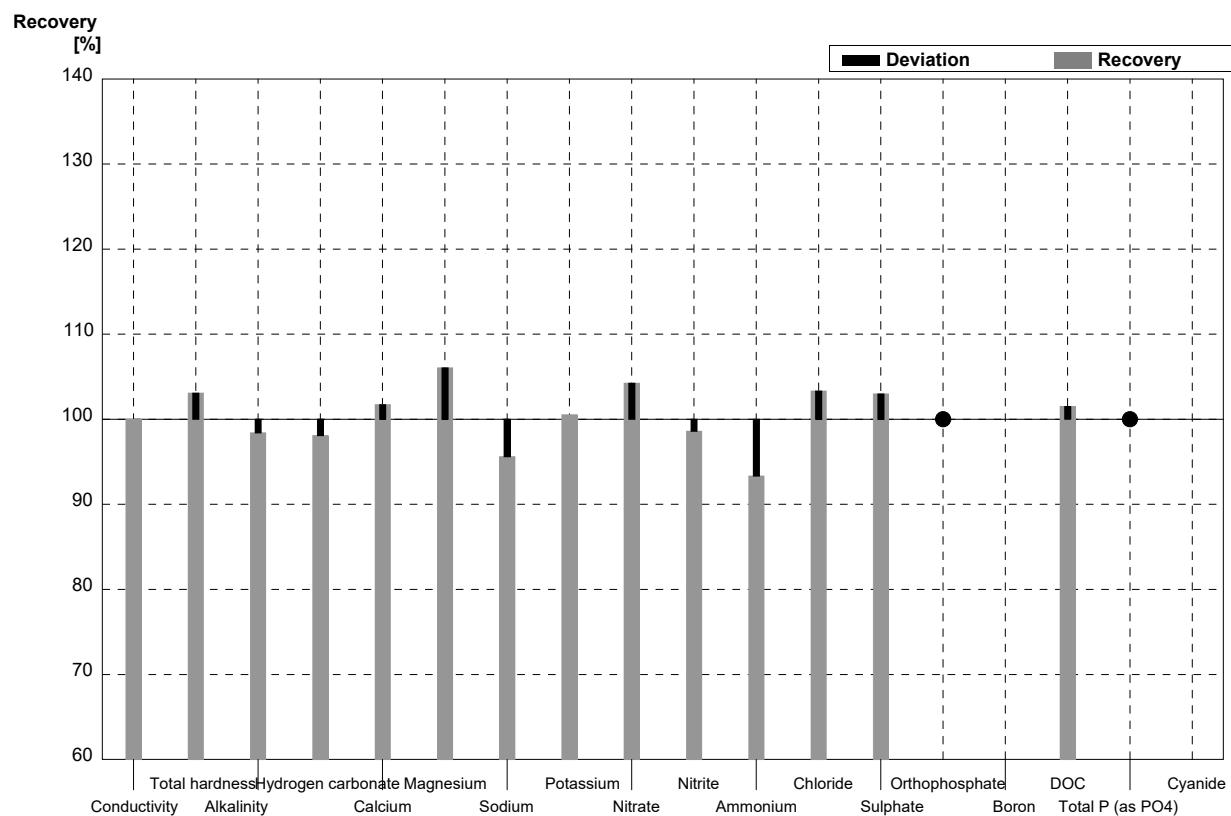
Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	487	2	490	10	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,55	0,02	1,57	0,16	mmol/l	101%
Alkalinity	3,48	0,03	3,40		mmol/l	98%
Hydrogen carbonate	209	2	207,5	21	mg/l	99%
Calcium	49,7	0,6	50,3	5,1	mg/l	101%
Magnesium	7,41	0,07	7,66	0,77	mg/l	103%
Sodium	38,6	0,4	35,9	3,6	mg/l	93%
Potassium	7,66	0,05	7,48	0,75	mg/l	98%
Nitrate	36,4	0,2	36,7		mg/l	101%
Nitrite	0,036	0,001	0,036	0,004	mg/l	100%
Ammonium	<0,01		<0,010		mg/l	•
Chloride	21,1	0,1	20,4		mg/l	97%
Sulphate	14,9	0,1	14,9		mg/l	100%
Orthophosphate	0,055	0,003	0,054	0,005	mg/l	98%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05	3,693	0,3693	mg/l	101%
Total P (as PO ₄)	0,118	0,003	0,109	0,011	mg/l	92%
Cyanide	0,072	0,002			mg/l	



Sample N148B

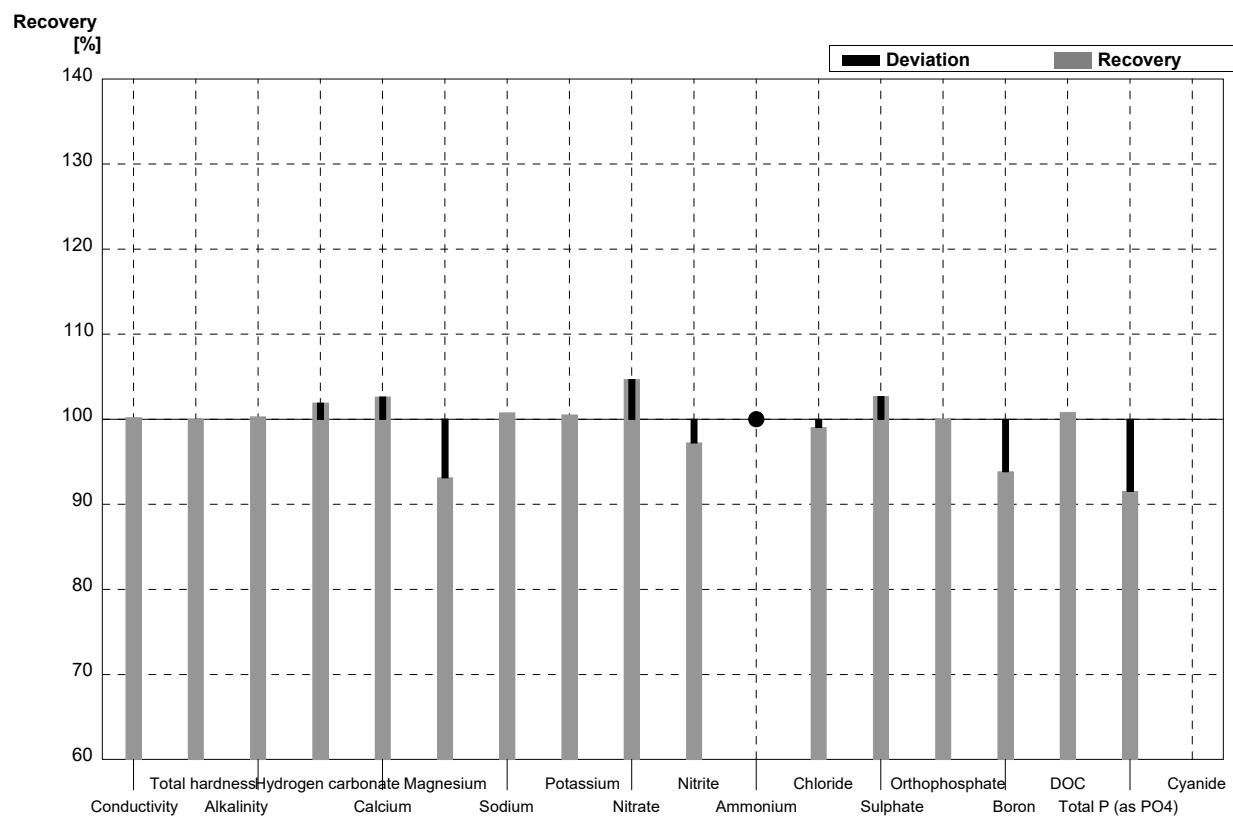
Laboratory F

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	551	10	µS/cm	100%
Total hardness	2,27	0,01	2,34	0,23	mmol/l	103%
Alkalinity	1,25	0,01	1,23		mmol/l	98%
Hydrogen carbonate	73,4	0,9	72,0	7,2	mg/l	98%
Calcium	69,3	0,4	70,5	7,1	mg/l	102%
Magnesium	13,2	0,1	14,0	1,4	mg/l	106%
Sodium	11,4	0,2	10,9	1,1	mg/l	96%
Potassium	1,88	0,05	1,89	0,19	mg/l	101%
Nitrate	73,1	0,4	76,2		mg/l	104%
Nitrite	0,071	0,002	0,070	0,007	mg/l	99%
Ammonium	0,075	0,005	0,070	0,007	mg/l	93%
Chloride	57,2	0,3	59,1		mg/l	103%
Sulphate	50,4	0,3	51,9		mg/l	103%
Orthophosphate	<0,009		<0,005		mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05	4,649	0,4649	mg/l	102%
Total P (as PO ₄)	<0,009		<0,005		mg/l	•
Cyanide	0,032	0,002			mg/l	



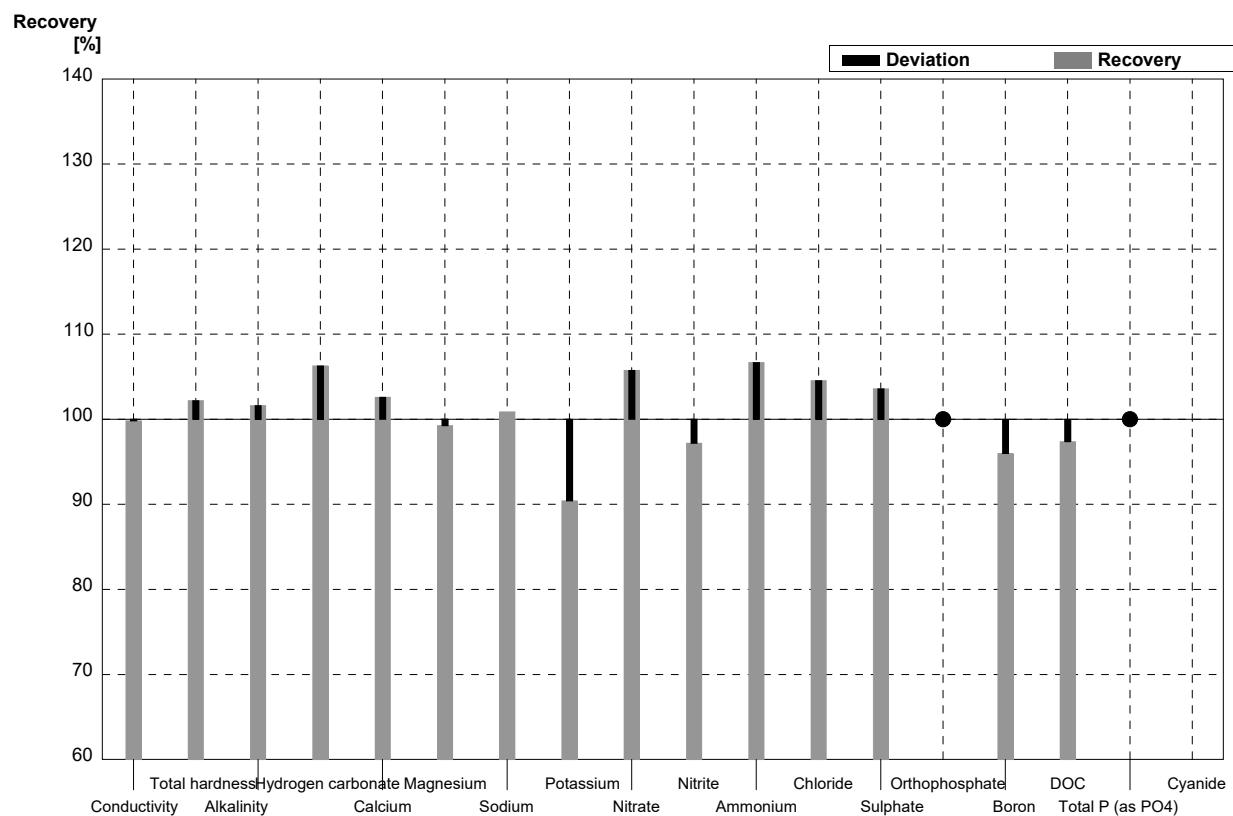
Sample N148A
Laboratory G

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	488	10	µS/cm	100%
Total hardness	1,55	0,02	1,55	0,2	mmol/l	100%
Alkalinity	3,48	0,03	3,49	0,25	mmol/l	100%
Hydrogen carbonate	209	2	213	17	mg/l	102%
Calcium	49,7	0,6	51,0	4	mg/l	103%
Magnesium	7,41	0,07	6,9	0,4	mg/l	93%
Sodium	38,6	0,4	38,9	1,2	mg/l	101%
Potassium	7,66	0,05	7,7	0,6	mg/l	101%
Nitrate	36,4	0,2	38,1	2,7	mg/l	105%
Nitrite	0,036	0,001	0,035	0,004	mg/l	97%
Ammonium	<0,01		<0,020	0,006	mg/l	•
Chloride	21,1	0,1	20,9	1,7	mg/l	99%
Sulphate	14,9	0,1	15,3	0,9	mg/l	103%
Orthophosphate	0,055	0,003	0,055	0,008	mg/l	100%
Boron	0,052	0,001	0,0488	0,0034	mg/l	94%
DOC	3,65	0,05	3,68	0,52	mg/l	101%
Total P (as PO ₄)	0,118	0,003	0,108	0,020	mg/l	92%
Cyanide	0,072	0,002			mg/l	



Sample N148B
Laboratory G

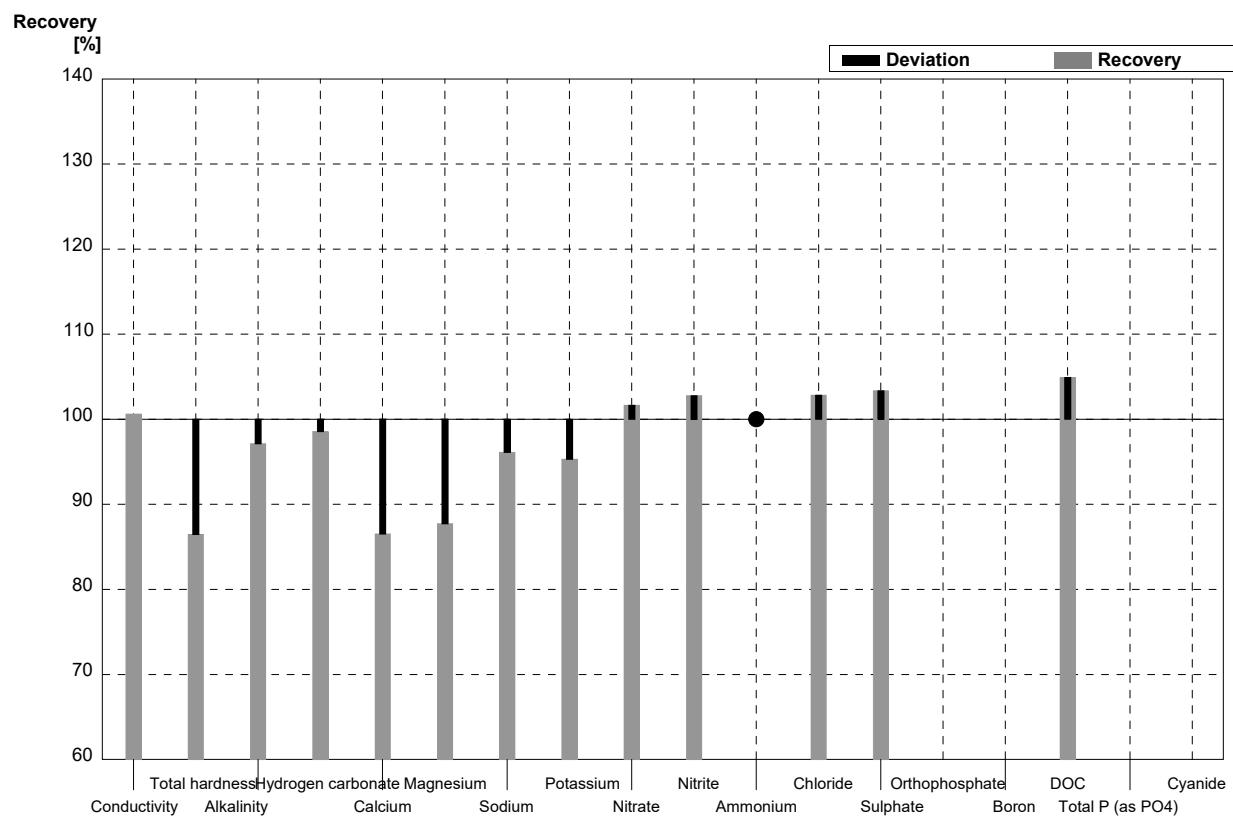
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	550	11	µS/cm	100%
Total hardness	2,27	0,01	2,32	0,20	mmol/l	102%
Alkalinity	1,25	0,01	1,27	0,09	mmol/l	102%
Hydrogen carbonate	73,4	0,9	78	6	mg/l	106%
Calcium	69,3	0,4	71,1	2,8	mg/l	103%
Magnesium	13,2	0,1	13,1	0,8	mg/l	99%
Sodium	11,4	0,2	11,5	0,3	mg/l	101%
Potassium	1,88	0,05	1,7	0,1	mg/l	90%
Nitrate	73,1	0,4	77,3	5,4	mg/l	106%
Nitrite	0,071	0,002	0,069	0,077	mg/l	97%
Ammonium	0,075	0,005	0,080	0,025	mg/l	107%
Chloride	57,2	0,3	59,8	4,8	mg/l	105%
Sulphate	50,4	0,3	52,2	3,1	mg/l	104%
Orthophosphate	<0,009		<0,009	0,001	mg/l	•
Boron	0,112	0,001	0,1075	0,0075	mg/l	96%
DOC	4,58	0,05	4,46	0,62	mg/l	97%
Total P (as PO ₄)	<0,009		<0,009	0,002	mg/l	•
Cyanide	0,032	0,002			mg/l	



Sample N148A

Laboratory H

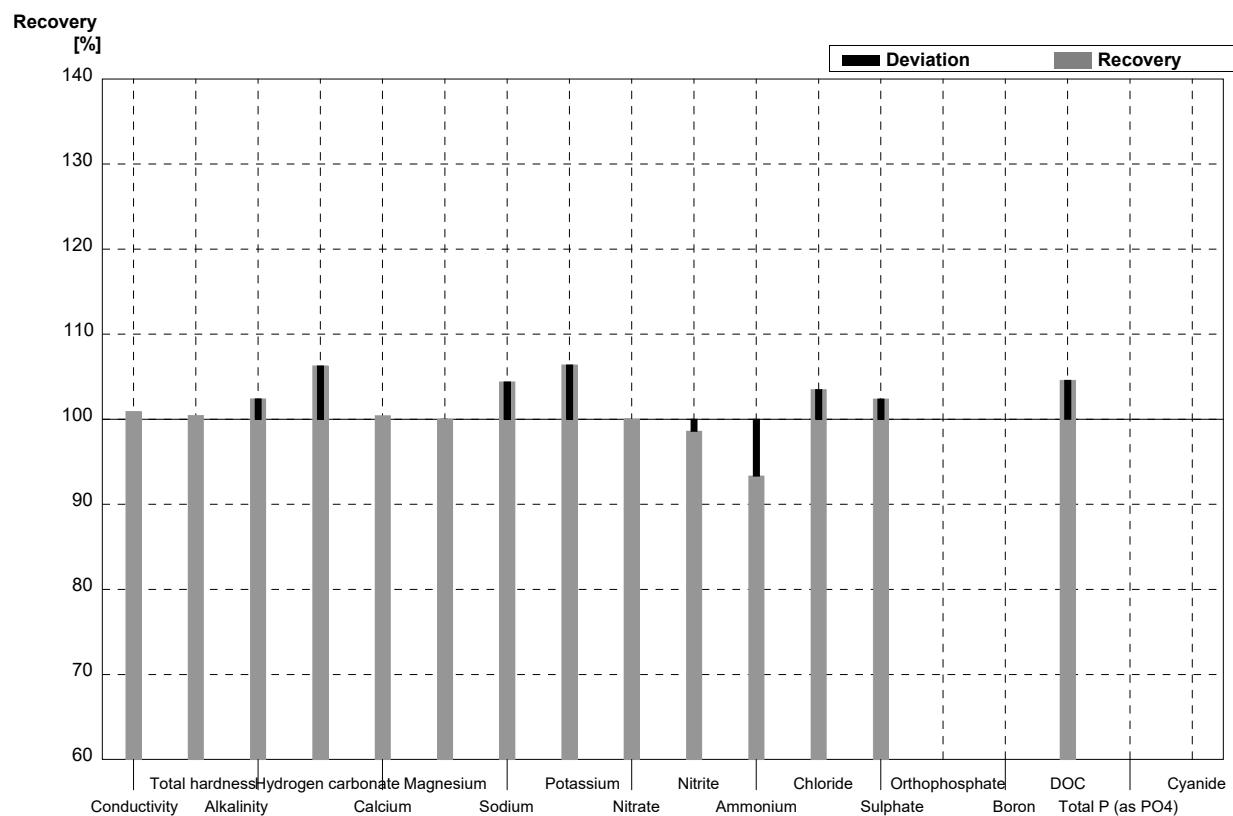
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	490	3	µS/cm	101%
Total hardness	1,55	0,02	1,34	0,01	mmol/l	86%
Alkalinity	3,48	0,03	3,38	0,13	mmol/l	97%
Hydrogen carbonate	209	2	206	8	mg/l	99%
Calcium	49,7	0,6	43	0,2	mg/l	87%
Magnesium	7,41	0,07	6,5	0,1	mg/l	88%
Sodium	38,6	0,4	37,1	0,2	mg/l	96%
Potassium	7,66	0,05	7,3	0,06	mg/l	95%
Nitrate	36,4	0,2	37	0,3	mg/l	102%
Nitrite	0,036	0,001	0,037	0,003	mg/l	103%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	21,1	0,1	21,7	0,1	mg/l	103%
Sulphate	14,9	0,1	15,4	0,2	mg/l	103%
Orthophosphate	0,055	0,003			mg/l	
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05	3,83	0,34	mg/l	105%
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



Sample N148B

Laboratory H

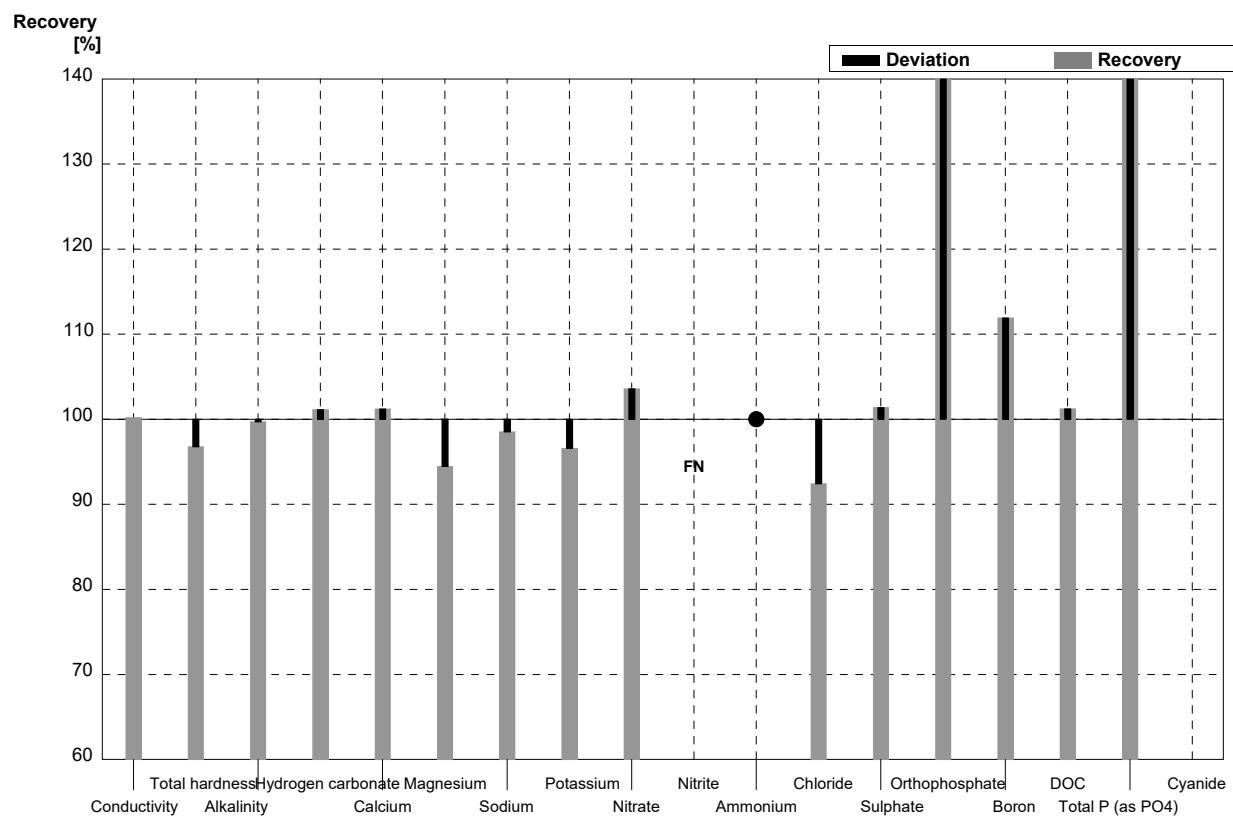
Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	551	2	556	3	$\mu\text{S}/\text{cm}$	101%
Total hardness	2,27	0,01	2,28	0,01	mmol/l	100%
Alkalinity	1,25	0,01	1,28	0,05	mmol/l	102%
Hydrogen carbonate	73,4	0,9	78	3	mg/l	106%
Calcium	69,3	0,4	69,6	0,3	mg/l	100%
Magnesium	13,2	0,1	13,2	0,1	mg/l	100%
Sodium	11,4	0,2	11,9	0,1	mg/l	104%
Potassium	1,88	0,05	2	0,02	mg/l	106%
Nitrate	73,1	0,4	73,1	0,6	mg/l	100%
Nitrite	0,071	0,002	0,070	0,005	mg/l	99%
Ammonium	0,075	0,005	0,070	0,002	mg/l	93%
Chloride	57,2	0,3	59,2	0,4	mg/l	103%
Sulphate	50,4	0,3	51,6	0,5	mg/l	102%
Orthophosphate	<0,009				mg/l	
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05	4,79	0,42	mg/l	105%
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



Sample N148A

Laboratory I

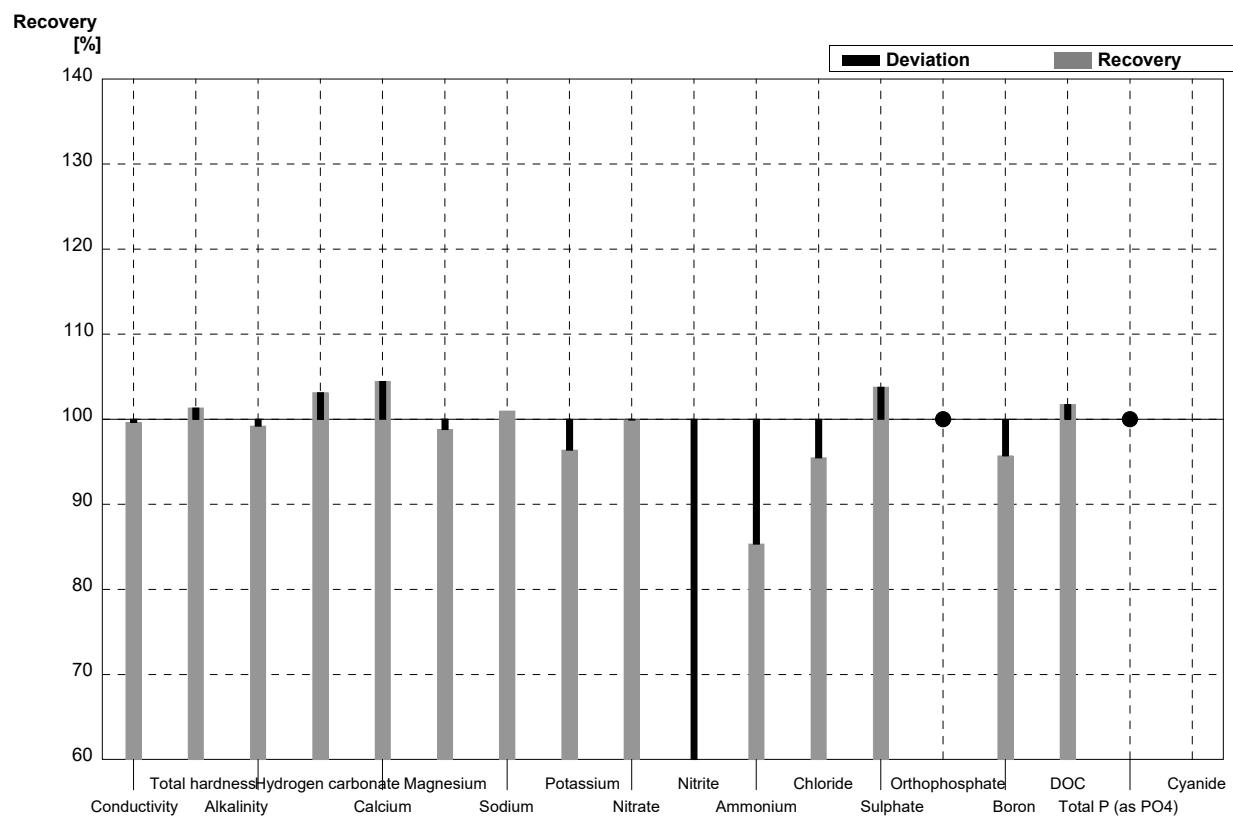
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	488		µS/cm	100%
Total hardness	1,55	0,02	1,5		mmol/l	97%
Alkalinity	3,48	0,03	3,47		mmol/l	100%
Hydrogen carbonate	209	2	211,4		mg/l	101%
Calcium	49,7	0,6	50,298		mg/l	101%
Magnesium	7,41	0,07	7,0		mg/l	94%
Sodium	38,6	0,4	38,035		mg/l	99%
Potassium	7,66	0,05	7,398		mg/l	97%
Nitrate	36,4	0,2	37,703		mg/l	104%
Nitrite	0,036	0,001	<0,02		mg/l	FN
Ammonium	<0,01		<0,02		mg/l	•
Chloride	21,1	0,1	19,502		mg/l	92%
Sulphate	14,9	0,1	15,107		mg/l	101%
Orthophosphate	0,055	0,003	0,156		mg/l	284%
Boron	0,052	0,001	0,0582		mg/l	112%
DOC	3,65	0,05	3,695		mg/l	101%
Total P (as PO ₄)	0,118	0,003	0,187		mg/l	158%
Cyanide	0,072	0,002			mg/l	



Sample N148B

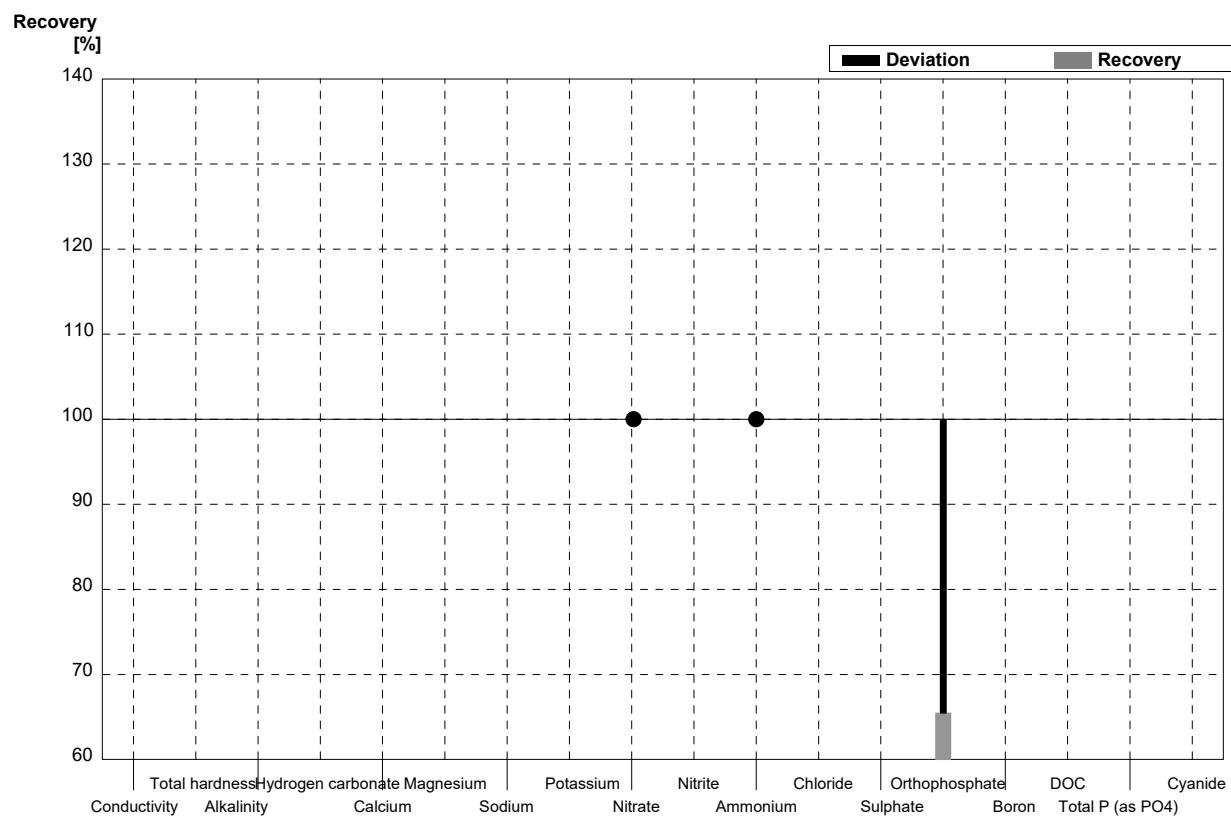
Laboratory I

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	549		µS/cm	100%
Total hardness	2,27	0,01	2,3		mmol/l	101%
Alkalinity	1,25	0,01	1,24		mmol/l	99%
Hydrogen carbonate	73,4	0,9	75,7		mg/l	103%
Calcium	69,3	0,4	72,389		mg/l	104%
Magnesium	13,2	0,1	13,043		mg/l	99%
Sodium	11,4	0,2	11,511		mg/l	101%
Potassium	1,88	0,05	1,812		mg/l	96%
Nitrate	73,1	0,4	73,028		mg/l	100%
Nitrite	0,071	0,002	0,041		mg/l	58%
Ammonium	0,075	0,005	0,064		mg/l	85%
Chloride	57,2	0,3	54,609		mg/l	95%
Sulphate	50,4	0,3	52,299		mg/l	104%
Orthophosphate	<0,009		<0,1		mg/l	•
Boron	0,112	0,001	0,1072		mg/l	96%
DOC	4,58	0,05	4,66		mg/l	102%
Total P (as PO ₄)	<0,009		<0,1		mg/l	•
Cyanide	0,032	0,002			mg/l	



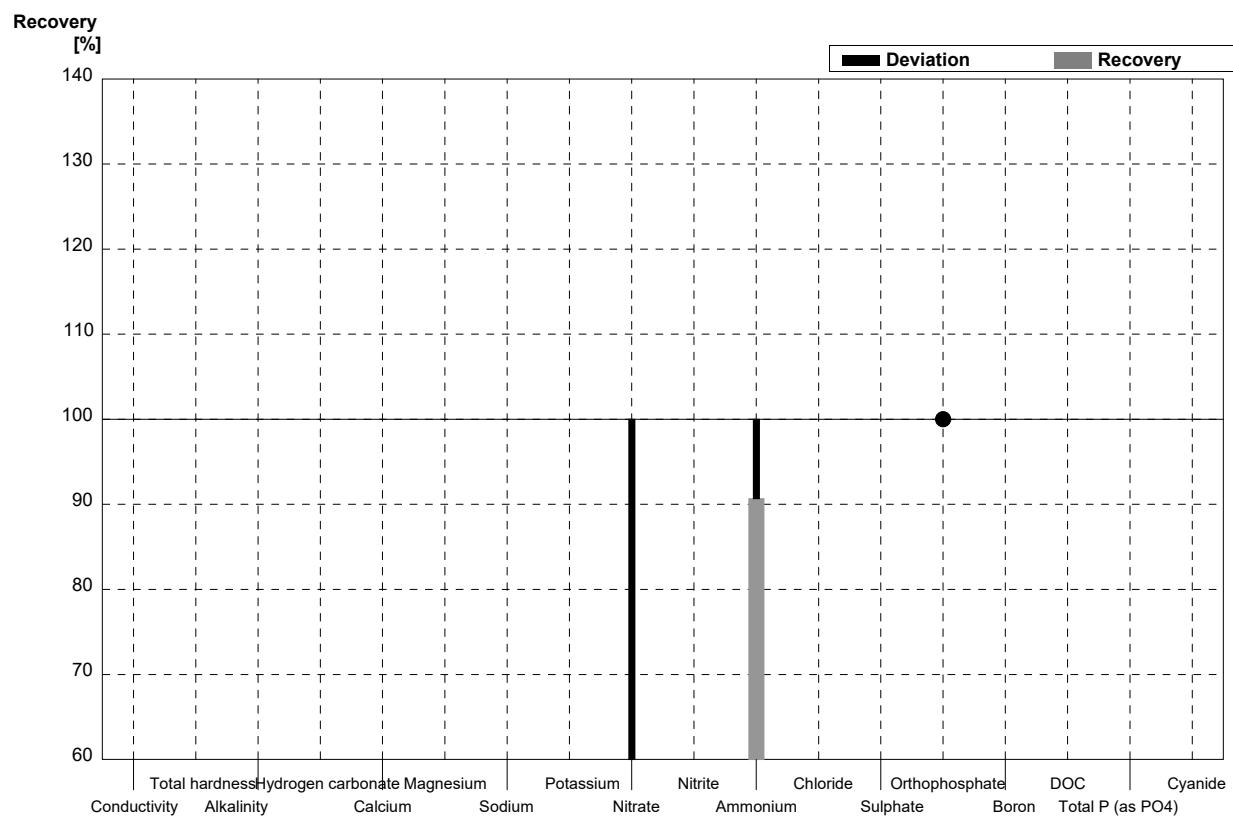
Sample N148A
Laboratory J

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2			µS/cm	
Total hardness	1,55	0,02			mmol/l	
Alkalinity	3,48	0,03			mmol/l	
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6			mg/l	
Magnesium	7,41	0,07			mg/l	
Sodium	38,6	0,4			mg/l	
Potassium	7,66	0,05			mg/l	
Nitrate	36,4	0,2	>30		mg/l	•
Nitrite	0,036	0,001			mg/l	
Ammonium	<0,01		<0,01		mg/l	•
Chloride	21,1	0,1			mg/l	
Sulphate	14,9	0,1			mg/l	
Orthophosphate	0,055	0,003	0,036	0,01	mg/l	65%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



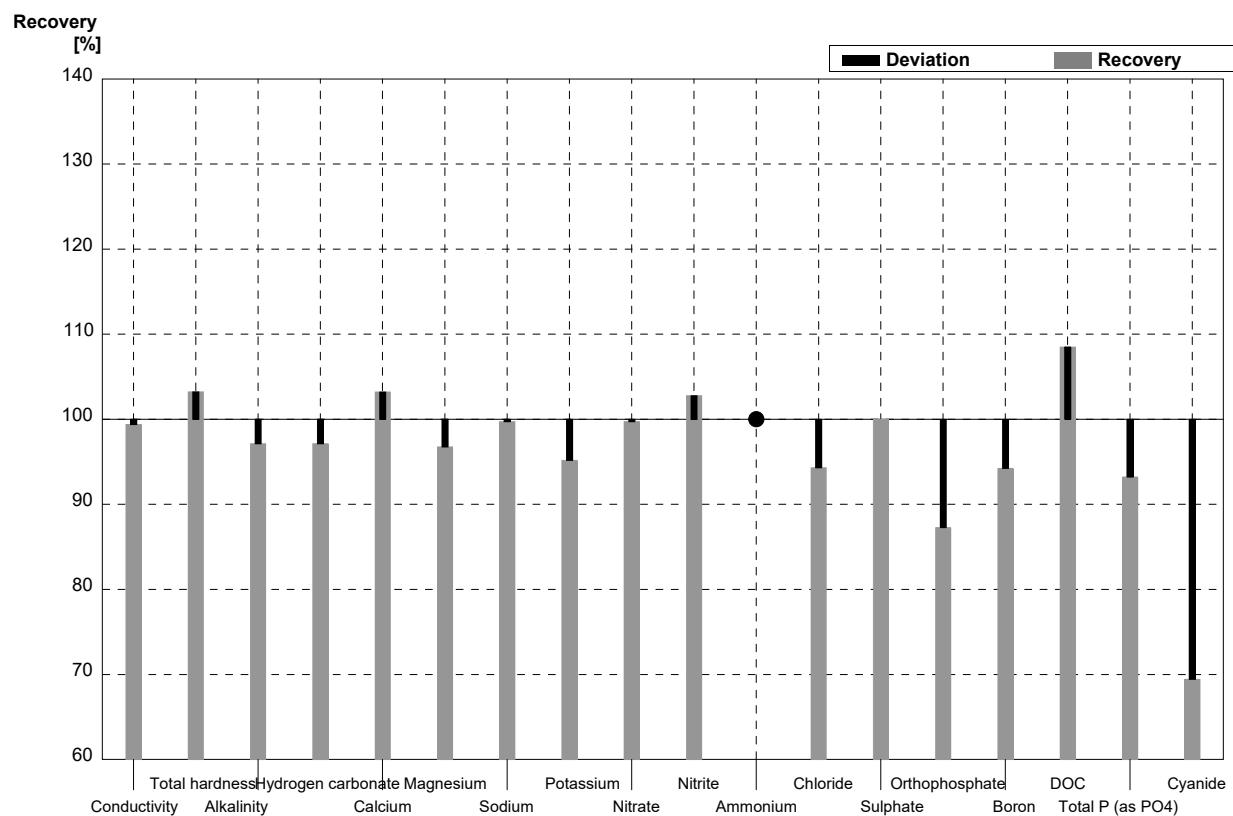
Sample N148B
Laboratory J

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2			µS/cm	
Total hardness	2,27	0,01			mmol/l	
Alkalinity	1,25	0,01			mmol/l	
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4			mg/l	
Magnesium	13,2	0,1			mg/l	
Sodium	11,4	0,2			mg/l	
Potassium	1,88	0,05			mg/l	
Nitrate	73,1	0,4	26,91	6,02	mg/l	37%
Nitrite	0,071	0,002			mg/l	
Ammonium	0,075	0,005	0,068	0,002	mg/l	91%
Chloride	57,2	0,3			mg/l	
Sulphate	50,4	0,3			mg/l	
Orthophosphate	<0,009		<0,019		mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



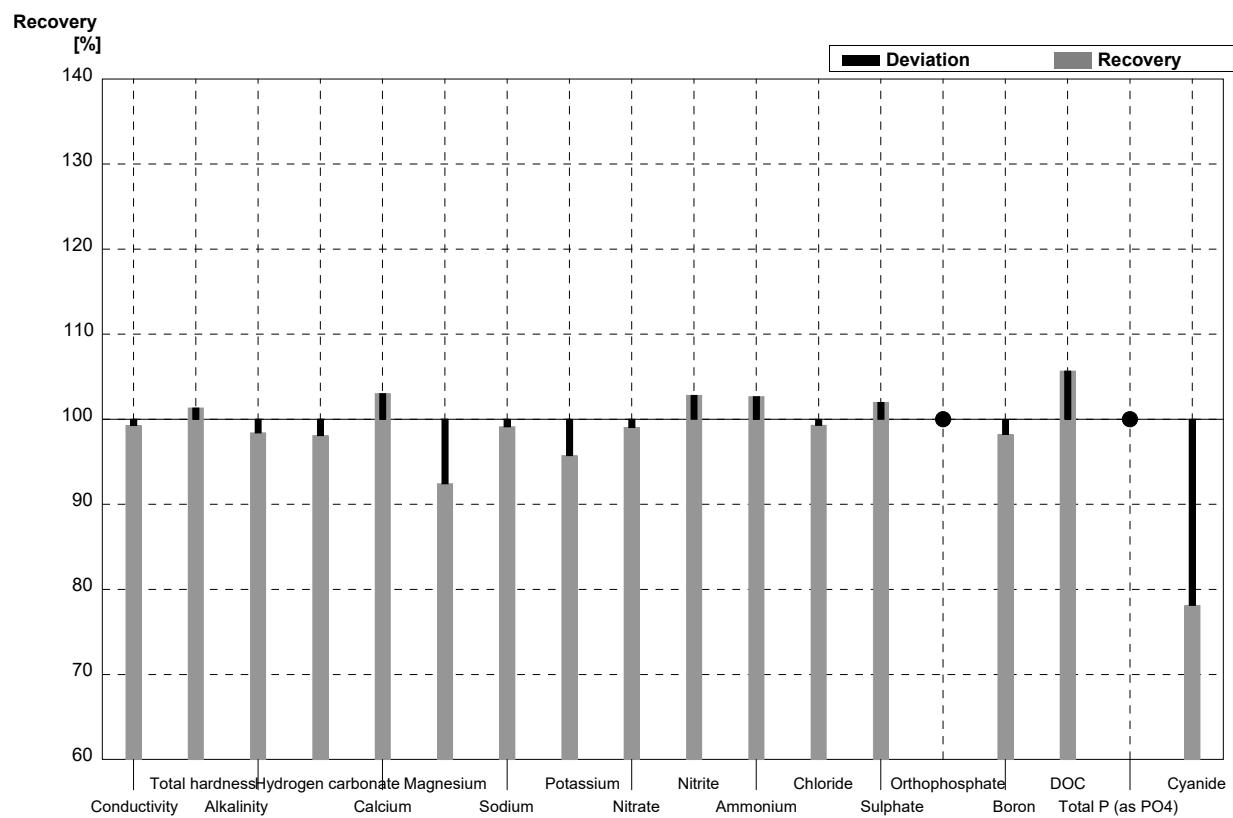
Sample N148A
Laboratory K

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	484	12	µS/cm	99%
Total hardness	1,55	0,02	1,6	0,16	mmol/l	103%
Alkalinity	3,48	0,03	3,38	0,08	mmol/l	97%
Hydrogen carbonate	209	2	203	5	mg/l	97%
Calcium	49,7	0,6	51,3	5	mg/l	103%
Magnesium	7,41	0,07	7,17	0,7	mg/l	97%
Sodium	38,6	0,4	38,5	4	mg/l	100%
Potassium	7,66	0,05	7,29	7	mg/l	95%
Nitrate	36,4	0,2	36,3	4	mg/l	100%
Nitrite	0,036	0,001	0,037	0,004	mg/l	103%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	21,1	0,1	19,9	2	mg/l	94%
Sulphate	14,9	0,1	14,9	1,5	mg/l	100%
Orthophosphate	0,055	0,003	0,048	0,005	mg/l	87%
Boron	0,052	0,001	0,049	0,005	mg/l	94%
DOC	3,65	0,05	3,96	0,4	mg/l	108%
Total P (as PO ₄)	0,118	0,003	0,11	0,01	mg/l	93%
Cyanide	0,072	0,002	0,05	0,005	mg/l	69%



Sample N148B
Laboratory K

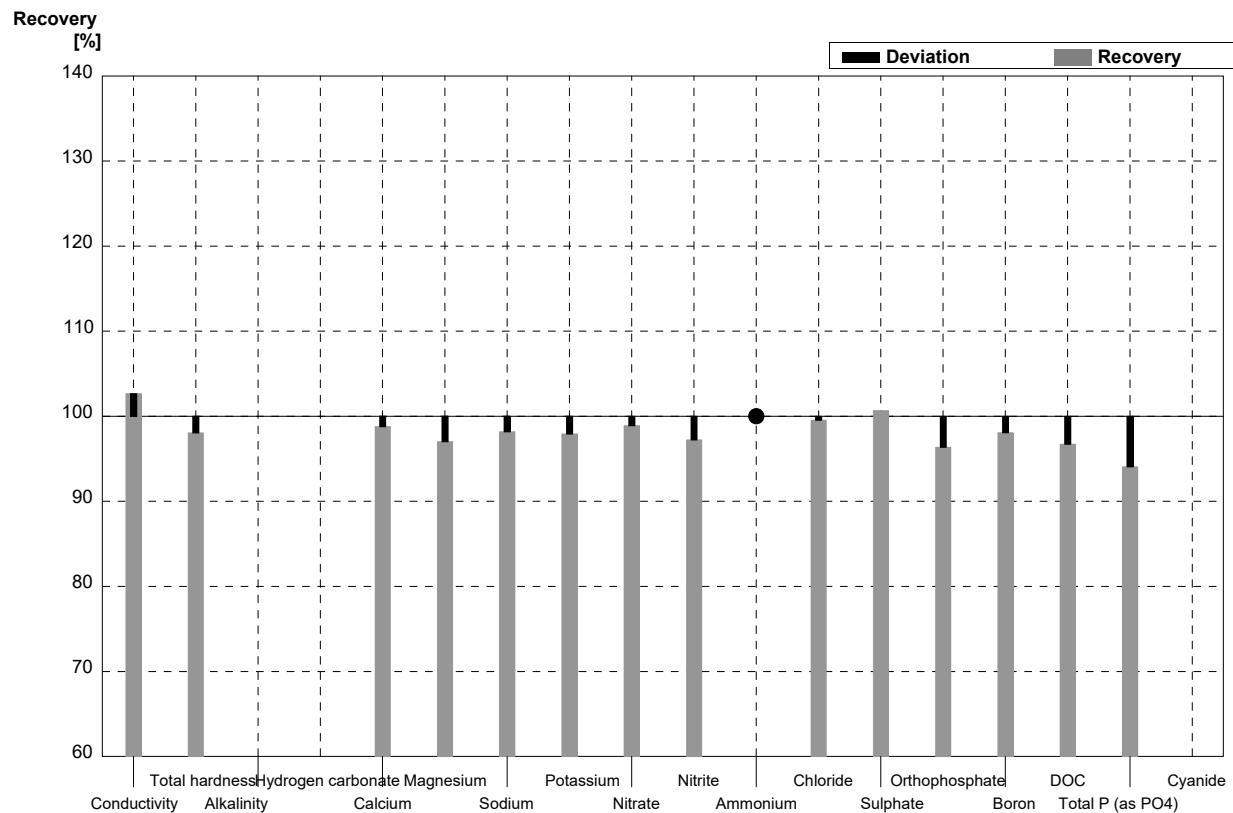
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	547	14	µS/cm	99%
Total hardness	2,27	0,01	2,3	0,2	mmol/l	101%
Alkalinity	1,25	0,01	1,23	0,03	mmol/l	98%
Hydrogen carbonate	73,4	0,9	72	2	mg/l	98%
Calcium	69,3	0,4	71,4	7	mg/l	103%
Magnesium	13,2	0,1	12,2	1	mg/l	92%
Sodium	11,4	0,2	11,3	1	mg/l	99%
Potassium	1,88	0,05	1,8	0,2	mg/l	96%
Nitrate	73,1	0,4	72,4	7	mg/l	99%
Nitrite	0,071	0,002	0,073	0,007	mg/l	103%
Ammonium	0,075	0,005	0,077	0,007	mg/l	103%
Chloride	57,2	0,3	56,8	6	mg/l	99%
Sulphate	50,4	0,3	51,4	5	mg/l	102%
Orthophosphate	<0,009		<0,02		mg/l	•
Boron	0,112	0,001	0,11	0,01	mg/l	98%
DOC	4,58	0,05	4,84	0,5	mg/l	106%
Total P (as PO ₄)	<0,009		<0,05		mg/l	•
Cyanide	0,032	0,002	0,025	0,003	mg/l	78%



Sample N148A

Laboratory L

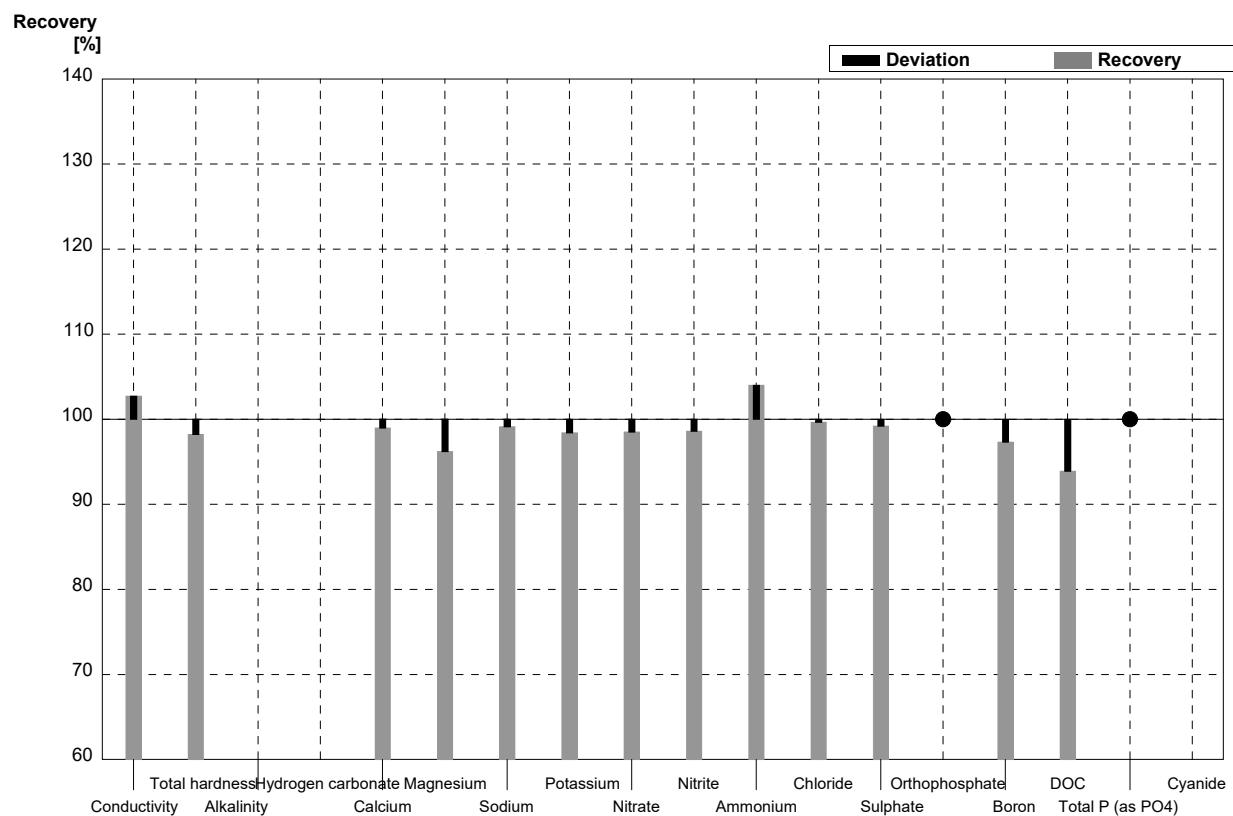
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	487	2	500	12	$\mu\text{S}/\text{cm}$	103%
Total hardness	1,55	0,02	1,52		mmol/l	98%
Alkalinity	3,48	0,03			mmol/l	
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	49,1	7,1	mg/l	99%
Magnesium	7,41	0,07	7,19	0,70	mg/l	97%
Sodium	38,6	0,4	37,9	3,8	mg/l	98%
Potassium	7,66	0,05	7,50	0,84	mg/l	98%
Nitrate	36,4	0,2	36	5	mg/l	99%
Nitrite	0,036	0,001	0,035	0,007	mg/l	97%
Ammonium	<0,01		0,0036	0,0015	mg/l	•
Chloride	21,1	0,1	21	3,6	mg/l	100%
Sulphate	14,9	0,1	15	2,0	mg/l	101%
Orthophosphate	0,055	0,003	0,053	0,009	mg/l	96%
Boron	0,052	0,001	0,051	0,012	mg/l	98%
DOC	3,65	0,05	3,53	0,35	mg/l	97%
Total P (as PO ₄)	0,118	0,003	0,111	0,020	mg/l	94%
Cyanide	0,072	0,002			mg/l	



Sample N148B

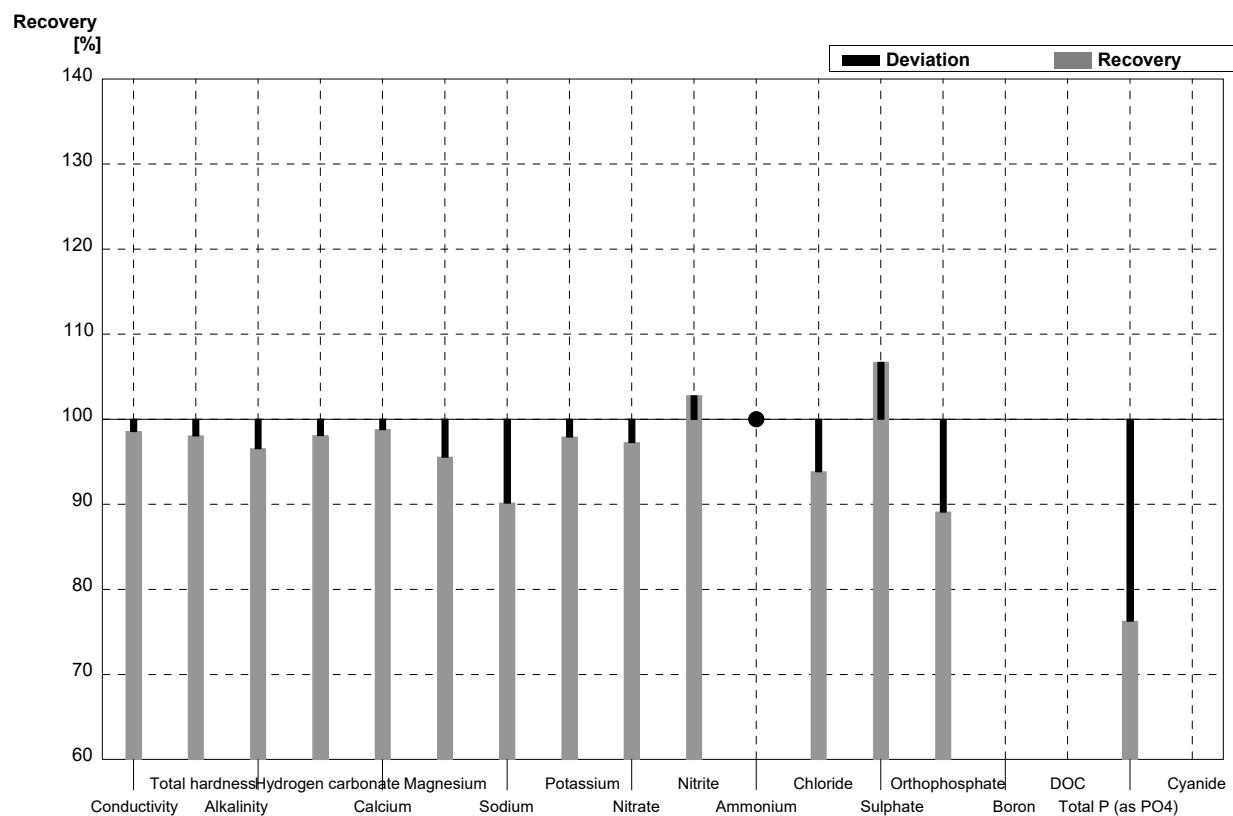
Laboratory L

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	566	13	µS/cm	103%
Total hardness	2,27	0,01	2,23		mmol/l	98%
Alkalinity	1,25	0,01			mmol/l	
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	68,6	9,8	mg/l	99%
Magnesium	13,2	0,1	12,7	1,3	mg/l	96%
Sodium	11,4	0,2	11,3	1,3	mg/l	99%
Potassium	1,88	0,05	1,85	0,21	mg/l	98%
Nitrate	73,1	0,4	72	10	mg/l	98%
Nitrite	0,071	0,002	0,070	0,013	mg/l	99%
Ammonium	0,075	0,005	0,078	0,013	mg/l	104%
Chloride	57,2	0,3	57	9,7	mg/l	100%
Sulphate	50,4	0,3	50	6,6	mg/l	99%
Orthophosphate	<0,009		<0,009		mg/l	•
Boron	0,112	0,001	0,109	0,026	mg/l	97%
DOC	4,58	0,05	4,3	0,38	mg/l	94%
Total P (as PO ₄)	<0,009		<0,012		mg/l	•
Cyanide	0,032	0,002			mg/l	



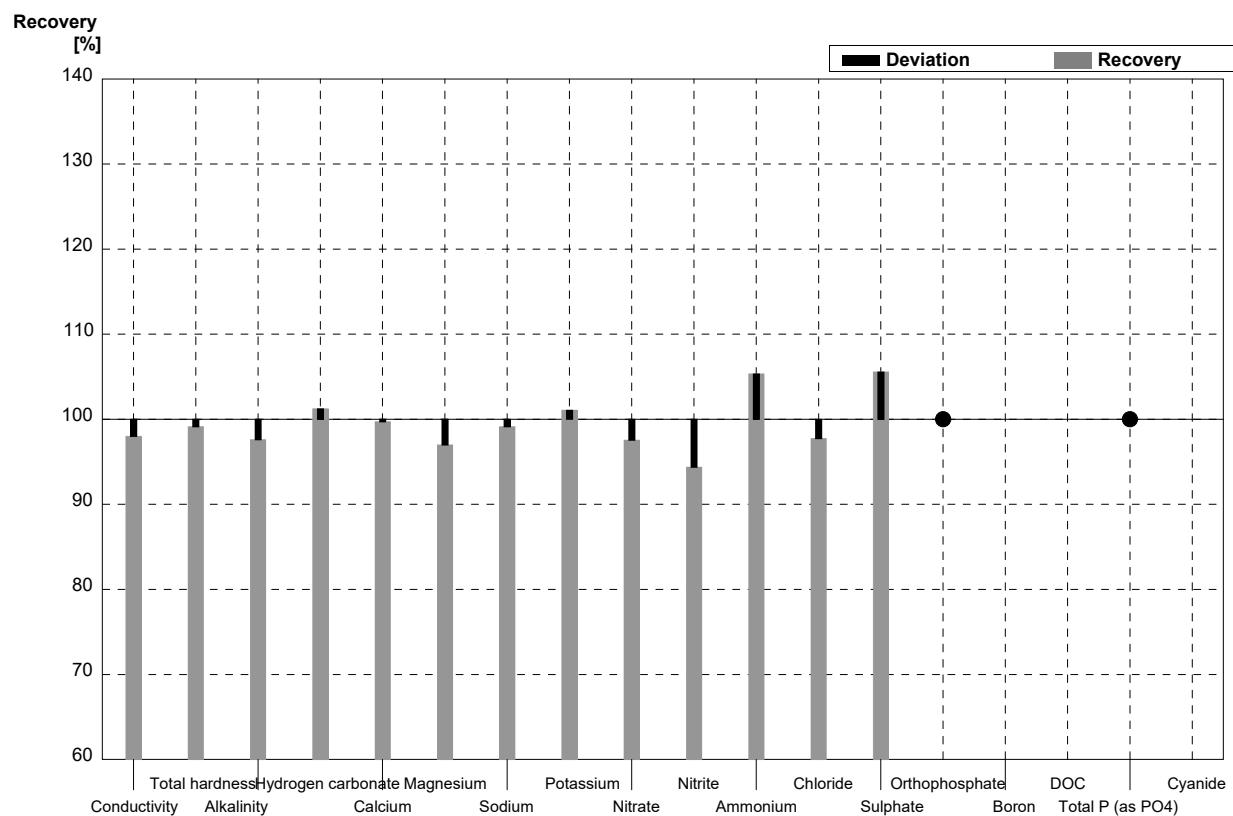
Sample N148A
Laboratory M

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	480	1	µS/cm	99%
Total hardness	1,55	0,02	1,52	0,07	mmol/l	98%
Alkalinity	3,48	0,03	3,36	0,15	mmol/l	97%
Hydrogen carbonate	209	2	205	10	mg/l	98%
Calcium	49,7	0,6	49,1	2,5	mg/l	99%
Magnesium	7,41	0,07	7,08	0,35	mg/l	96%
Sodium	38,6	0,4	34,8	1,5	mg/l	90%
Potassium	7,66	0,05	7,5	0,4	mg/l	98%
Nitrate	36,4	0,2	35,4	2	mg/l	97%
Nitrite	0,036	0,001	0,037	0,002	mg/l	103%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	21,1	0,1	19,8	1	mg/l	94%
Sulphate	14,9	0,1	15,9	0,7	mg/l	107%
Orthophosphate	0,055	0,003	0,049	0,003	mg/l	89%
Boron	0,052	0,001	n.b.		mg/l	
DOC	3,65	0,05	n.b.		mg/l	
Total P (as PO ₄)	0,118	0,003	0,09	0,01	mg/l	76%
Cyanide	0,072	0,002	n.b.		mg/l	



Sample N148B
Laboratory M

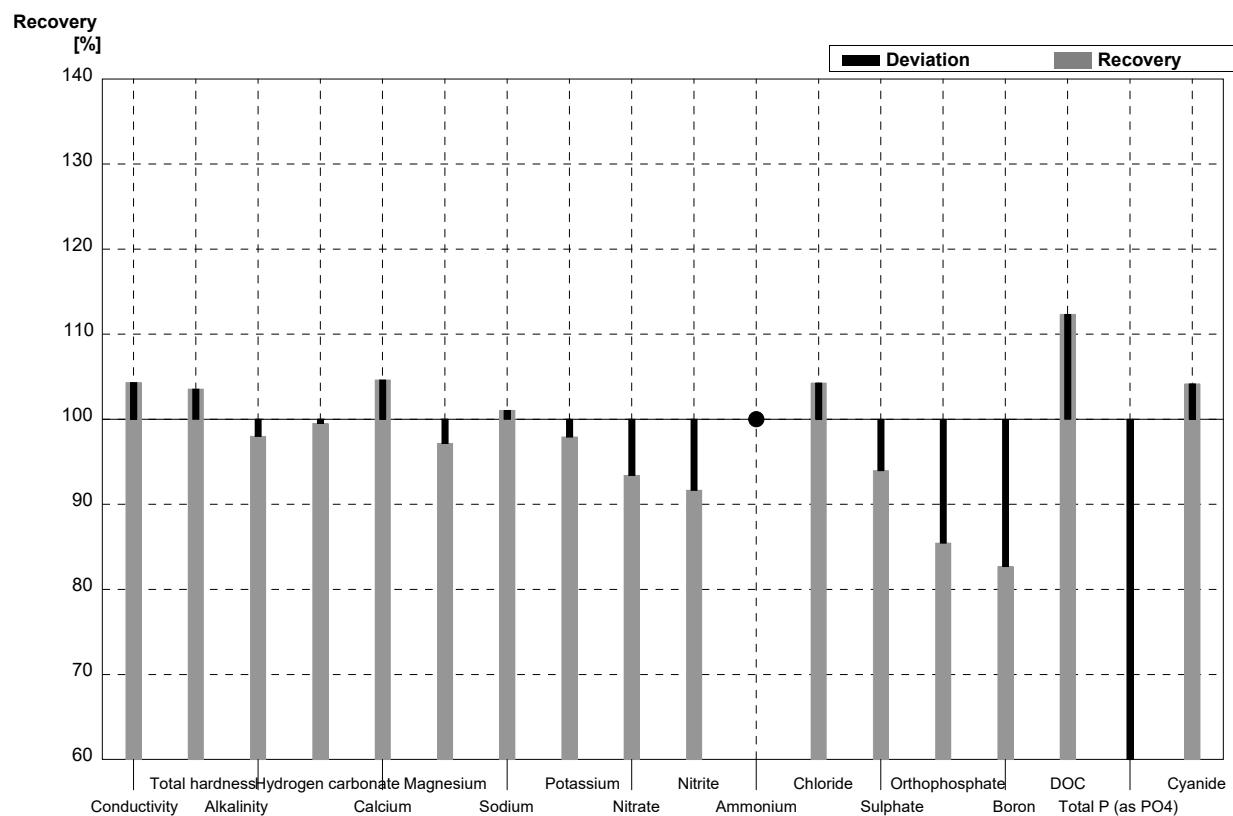
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	540	1	µS/cm	98%
Total hardness	2,27	0,01	2,25	0,1	mmol/l	99%
Alkalinity	1,25	0,01	1,22	0,05	mmol/l	98%
Hydrogen carbonate	73,4	0,9	74,3	3,5	mg/l	101%
Calcium	69,3	0,4	69,1	3,5	mg/l	100%
Magnesium	13,2	0,1	12,8	0,6	mg/l	97%
Sodium	11,4	0,2	11,3	0,5	mg/l	99%
Potassium	1,88	0,05	1,9	0,1	mg/l	101%
Nitrate	73,1	0,4	71,3	3	mg/l	98%
Nitrite	0,071	0,002	0,067	0,004	mg/l	94%
Ammonium	0,075	0,005	0,079	0,004	mg/l	105%
Chloride	57,2	0,3	55,9	3	mg/l	98%
Sulphate	50,4	0,3	53,2	2,5	mg/l	106%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,112	0,001	n.b.		mg/l	
DOC	4,58	0,05	n.b.		mg/l	
Total P (as PO ₄)	<0,009		<0,02		mg/l	•
Cyanide	0,032	0,002	n.b.		mg/l	



Sample N148A

Laboratory N

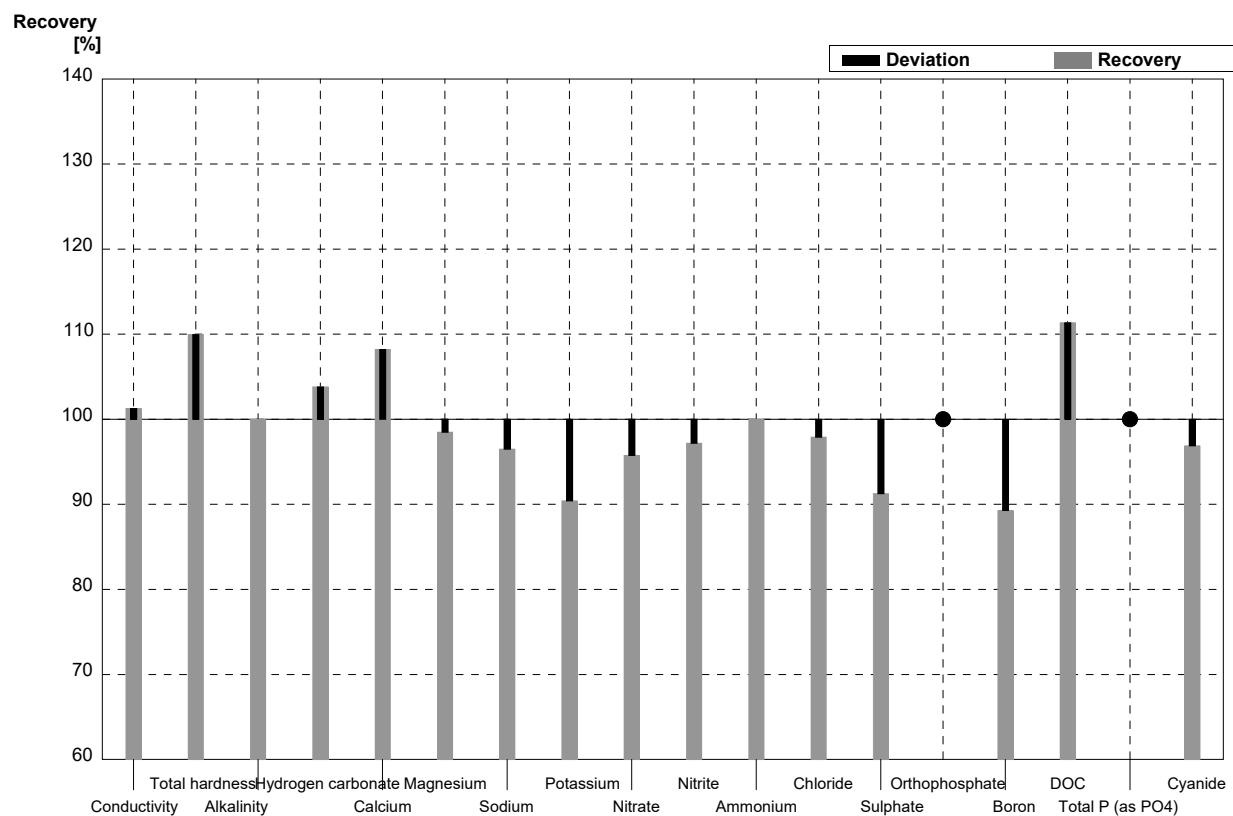
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	487	2	508	51	$\mu\text{S}/\text{cm}$	104%
Total hardness	1,55	0,02	1,605	0,1605	mmol/l	104%
Alkalinity	3,48	0,03	3,41	0,34	mmol/l	98%
Hydrogen carbonate	209	2	208	21	mg/l	100%
Calcium	49,7	0,6	52	5	mg/l	105%
Magnesium	7,41	0,07	7,2	0,7	mg/l	97%
Sodium	38,6	0,4	39	4	mg/l	101%
Potassium	7,66	0,05	7,5	0,8	mg/l	98%
Nitrate	36,4	0,2	34	3	mg/l	93%
Nitrite	0,036	0,001	0,033	0,003	mg/l	92%
Ammonium	<0,01		<0,005		mg/l	•
Chloride	21,1	0,1	22	2	mg/l	104%
Sulphate	14,9	0,1	14	1	mg/l	94%
Orthophosphate	0,055	0,003	0,047	0,005	mg/l	85%
Boron	0,052	0,001	0,043	0,004	mg/l	83%
DOC	3,65	0,05	4,1	0,4	mg/l	112%
Total P (as PO ₄)	0,118	0,003	0,045	0,009	mg/l	38%
Cyanide	0,072	0,002	0,075	0,008	mg/l	104%



Sample N148B

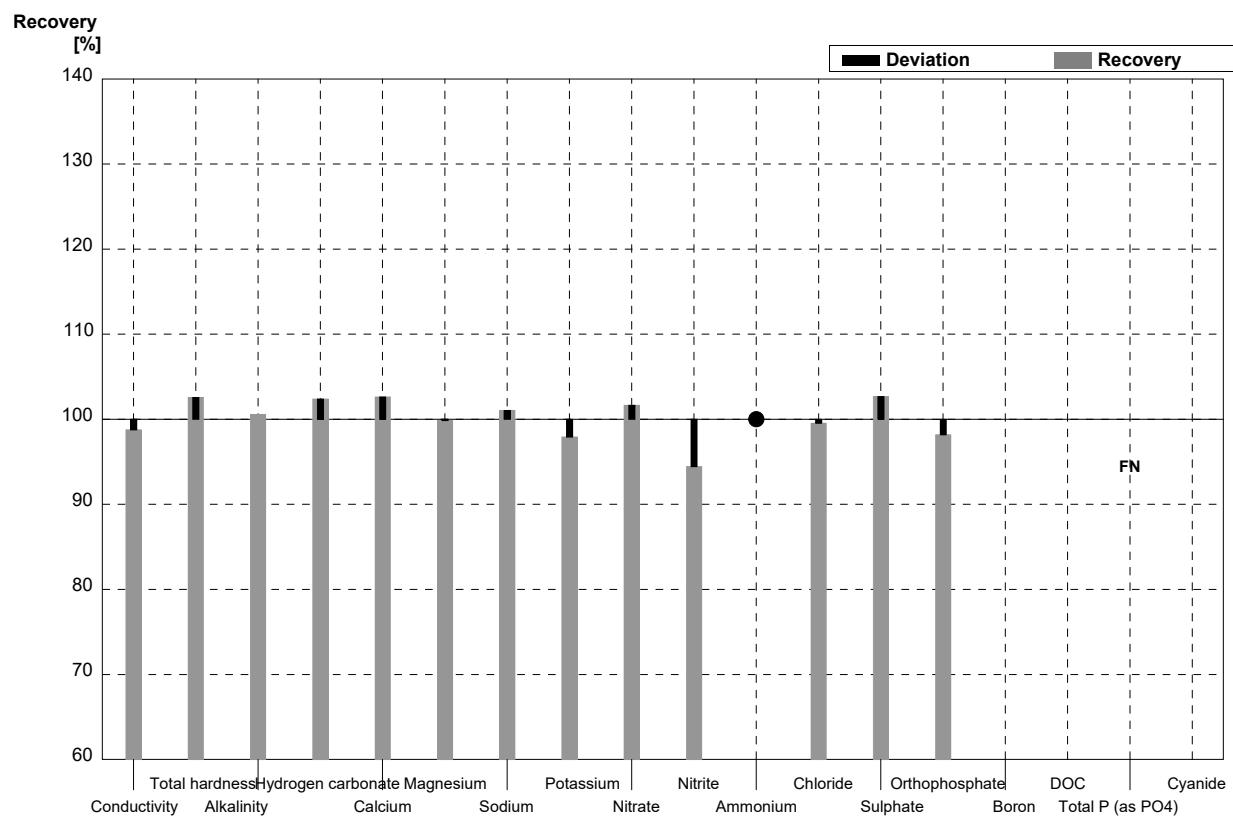
Laboratory N

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	558	56	µS/cm	101%
Total hardness	2,27	0,01	2,496	0,178	mmol/l	110%
Alkalinity	1,25	0,01	1,25	0,12	mmol/l	100%
Hydrogen carbonate	73,4	0,9	76,2	7,6	mg/l	104%
Calcium	69,3	0,4	75	8	mg/l	108%
Magnesium	13,2	0,1	13	1	mg/l	98%
Sodium	11,4	0,2	11	1	mg/l	96%
Potassium	1,88	0,05	1,7	0,2	mg/l	90%
Nitrate	73,1	0,4	70	7	mg/l	96%
Nitrite	0,071	0,002	0,069	0,007	mg/l	97%
Ammonium	0,075	0,005	0,075	0,008	mg/l	100%
Chloride	57,2	0,3	56	6	mg/l	98%
Sulphate	50,4	0,3	46	5	mg/l	91%
Orthophosphate	<0,009		<0,004		mg/l	•
Boron	0,112	0,001	0,1	0,01	mg/l	89%
DOC	4,58	0,05	5,1	0,5	mg/l	111%
Total P (as PO ₄)	<0,009		<0,030		mg/l	•
Cyanide	0,032	0,002	0,031	0,003	mg/l	97%



Sample N148A
Laboratory O

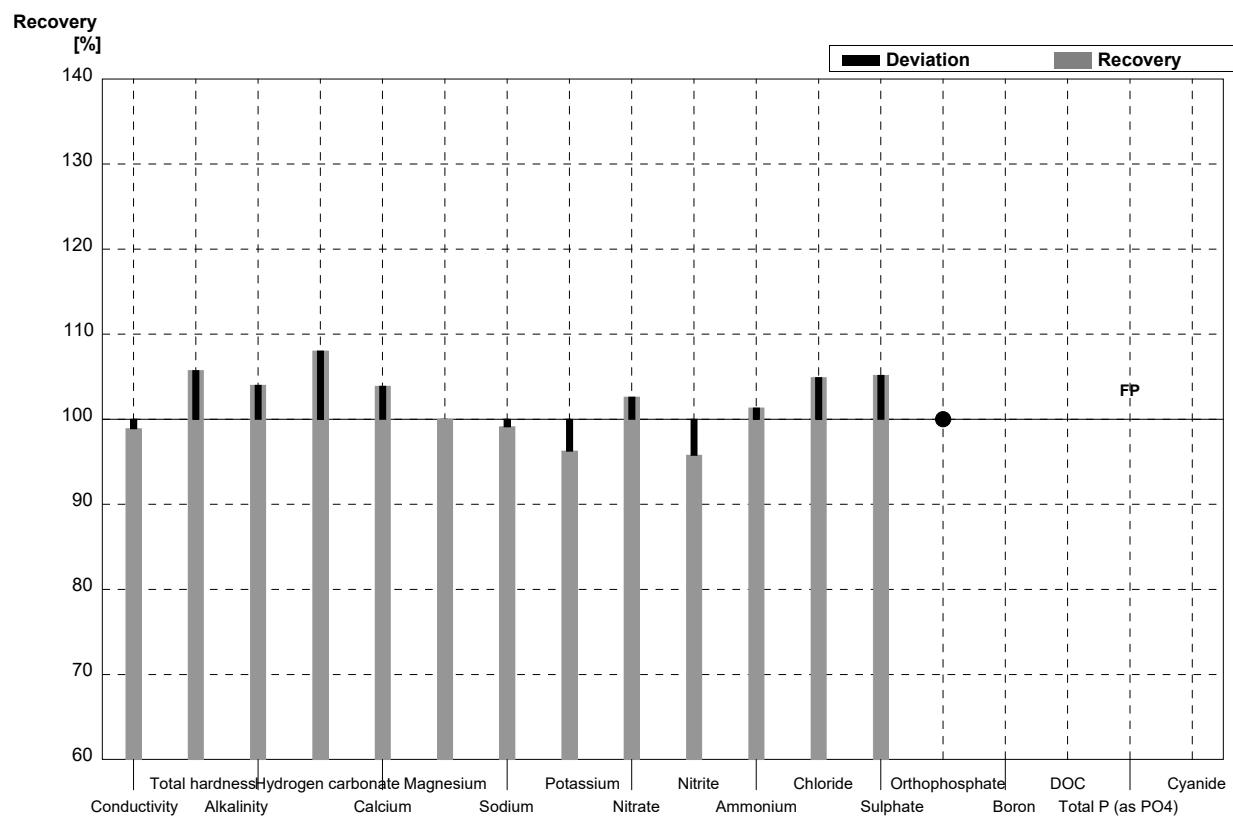
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	481	5	µS/cm	99%
Total hardness	1,55	0,02	1,59	0,05	mmol/l	103%
Alkalinity	3,48	0,03	3,50	0,10	mmol/l	101%
Hydrogen carbonate	209	2	214	6	mg/l	102%
Calcium	49,7	0,6	51	2	mg/l	103%
Magnesium	7,41	0,07	7,4	0,4	mg/l	100%
Sodium	38,6	0,4	39	2	mg/l	101%
Potassium	7,66	0,05	7,5	0,4	mg/l	98%
Nitrate	36,4	0,2	37	3	mg/l	102%
Nitrite	0,036	0,001	0,034	0,002	mg/l	94%
Ammonium	<0,01		<0,02		mg/l	•
Chloride	21,1	0,1	21	2	mg/l	100%
Sulphate	14,9	0,1	15,3	0,8	mg/l	103%
Orthophosphate	0,055	0,003	0,054	0,005	mg/l	98%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003	<0,01		mg/l	FN
Cyanide	0,072	0,002			mg/l	



Sample N148B

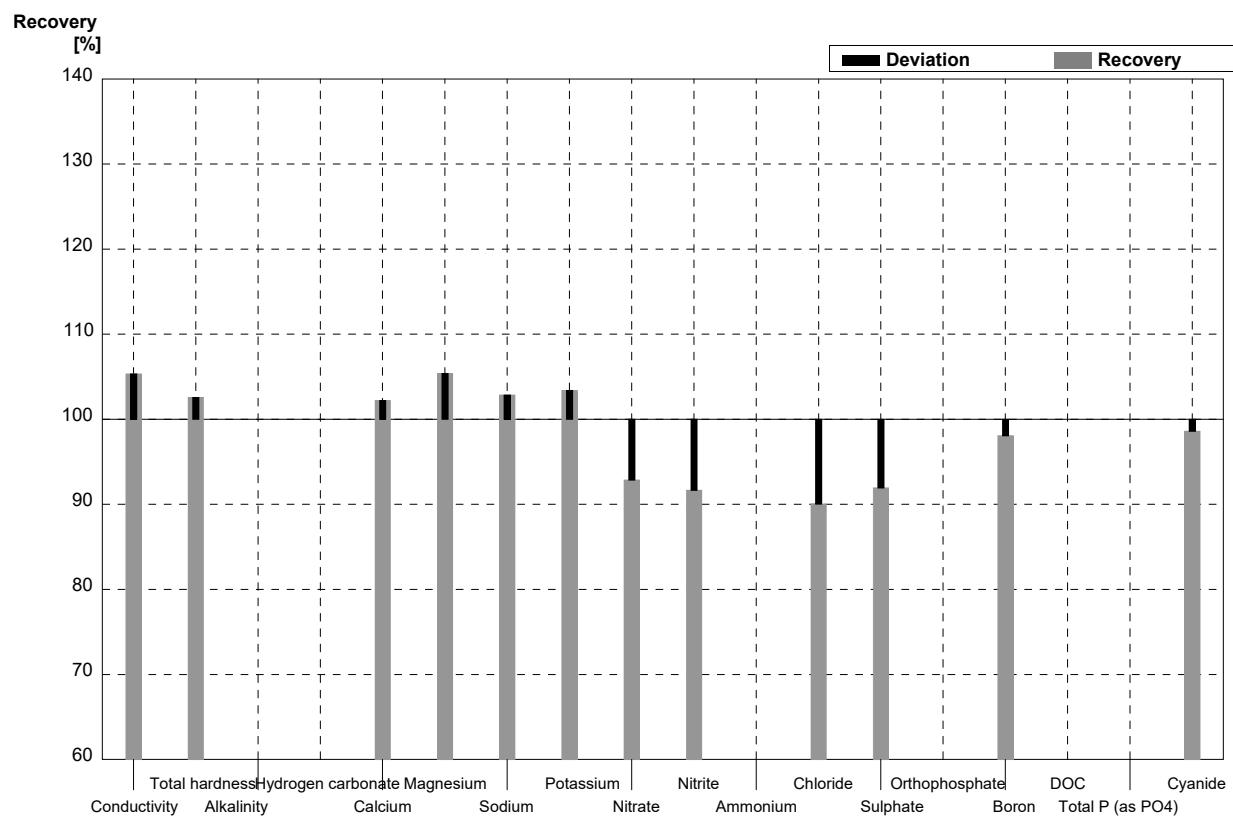
Laboratory O

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	545	6	µS/cm	99%
Total hardness	2,27	0,01	2,4	0,1	mmol/l	106%
Alkalinity	1,25	0,01	1,300	0,037	mmol/l	104%
Hydrogen carbonate	73,4	0,9	79,3	2,3	mg/l	108%
Calcium	69,3	0,4	72	2	mg/l	104%
Magnesium	13,2	0,1	13,2	0,6	mg/l	100%
Sodium	11,4	0,2	11,3	0,6	mg/l	99%
Potassium	1,88	0,05	1,81	0,09	mg/l	96%
Nitrate	73,1	0,4	75	5	mg/l	103%
Nitrite	0,071	0,002	0,068	0,004	mg/l	96%
Ammonium	0,075	0,005	0,076	0,010	mg/l	101%
Chloride	57,2	0,3	60	5	mg/l	105%
Sulphate	50,4	0,3	53	3	mg/l	105%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009		0,116	0,013	mg/l	FP
Cyanide	0,032	0,002			mg/l	



Sample N148A**Laboratory P**

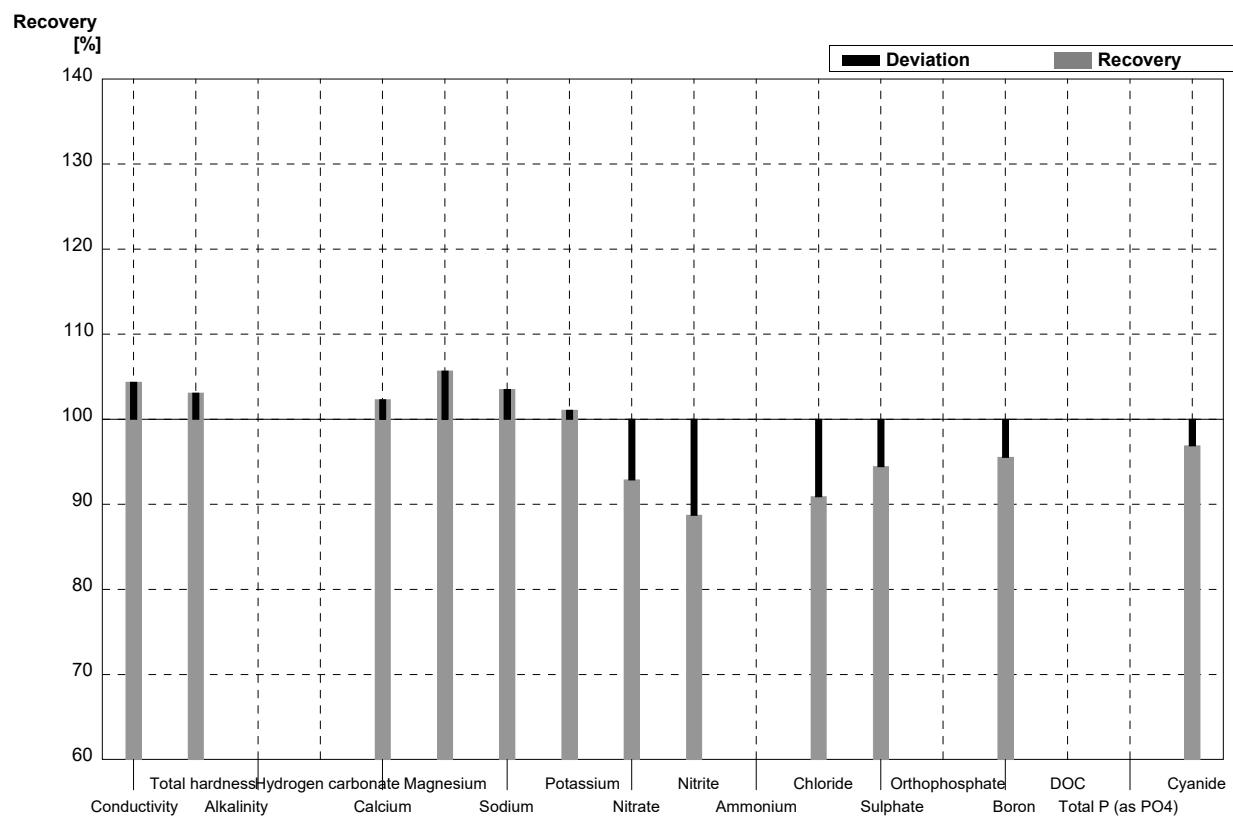
Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	487	2	513	15	$\mu\text{S}/\text{cm}$	105%
Total hardness	1,55	0,02	1,59	0,16	mmol/l	103%
Alkalinity	3,48	0,03			mmol/l	
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	50,8	7,6	mg/l	102%
Magnesium	7,41	0,07	7,81	1,17	mg/l	105%
Sodium	38,6	0,4	39,7	6,0	mg/l	103%
Potassium	7,66	0,05	7,92	1,19	mg/l	103%
Nitrate	36,4	0,2	33,8	3,4	mg/l	93%
Nitrite	0,036	0,001	0,033	0,003	mg/l	92%
Ammonium	<0,01				mg/l	
Chloride	21,1	0,1	19,0	1,9	mg/l	90%
Sulphate	14,9	0,1	13,7	1,4	mg/l	92%
Orthophosphate	0,055	0,003			mg/l	
Boron	0,052	0,001	0,051	0,008	mg/l	98%
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002	0,071	0,018	mg/l	99%



Sample N148B

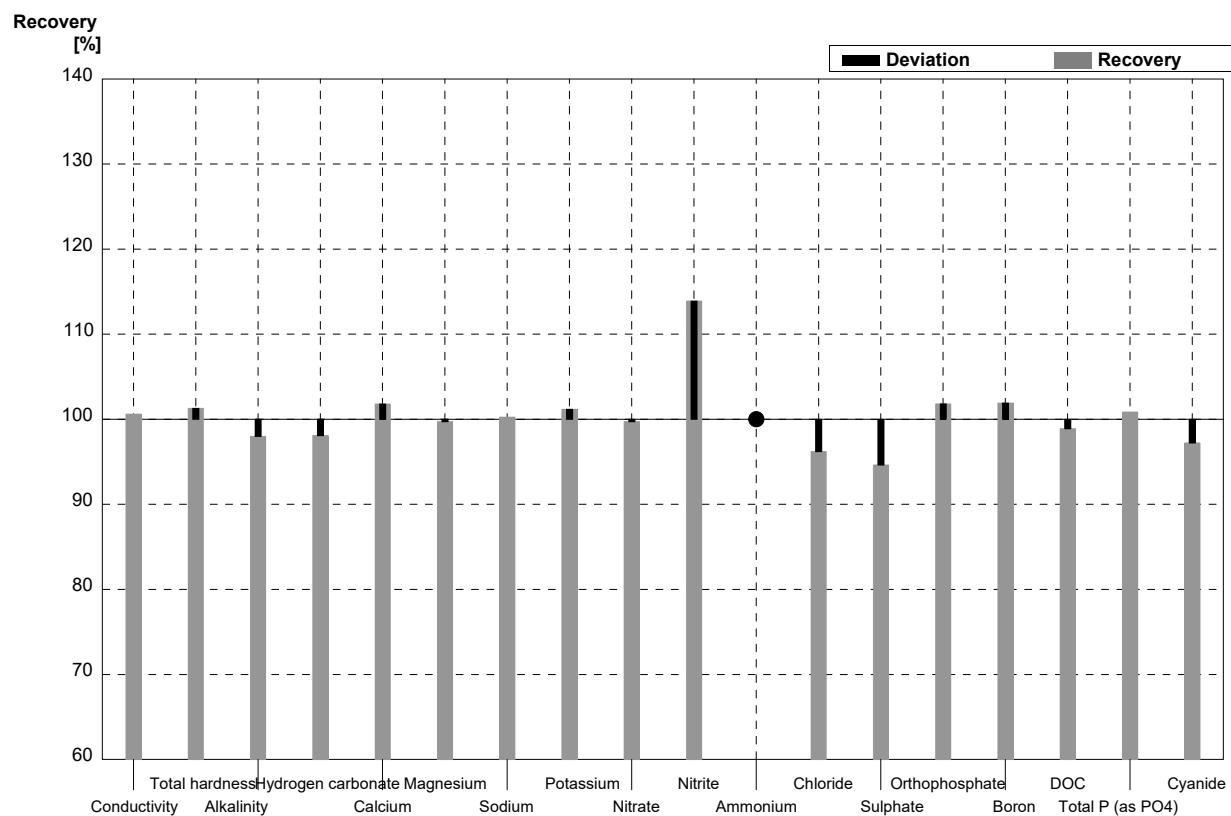
Laboratory P

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	575	17	µS/cm	104%
Total hardness	2,27	0,01	2,34	0,24	mmol/l	103%
Alkalinity	1,25	0,01			mmol/l	
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	70,9	10,6	mg/l	102%
Magnesium	13,2	0,1	13,95	2,09	mg/l	106%
Sodium	11,4	0,2	11,8	1,8	mg/l	104%
Potassium	1,88	0,05	1,90	0,29	mg/l	101%
Nitrate	73,1	0,4	67,9	6,8	mg/l	93%
Nitrite	0,071	0,002	0,063	0,006	mg/l	89%
Ammonium	0,075	0,005			mg/l	
Chloride	57,2	0,3	52,0	5,2	mg/l	91%
Sulphate	50,4	0,3	47,6	4,8	mg/l	94%
Orthophosphate	<0,009				mg/l	
Boron	0,112	0,001	0,107	0,015	mg/l	96%
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002	0,031	0,008	mg/l	97%



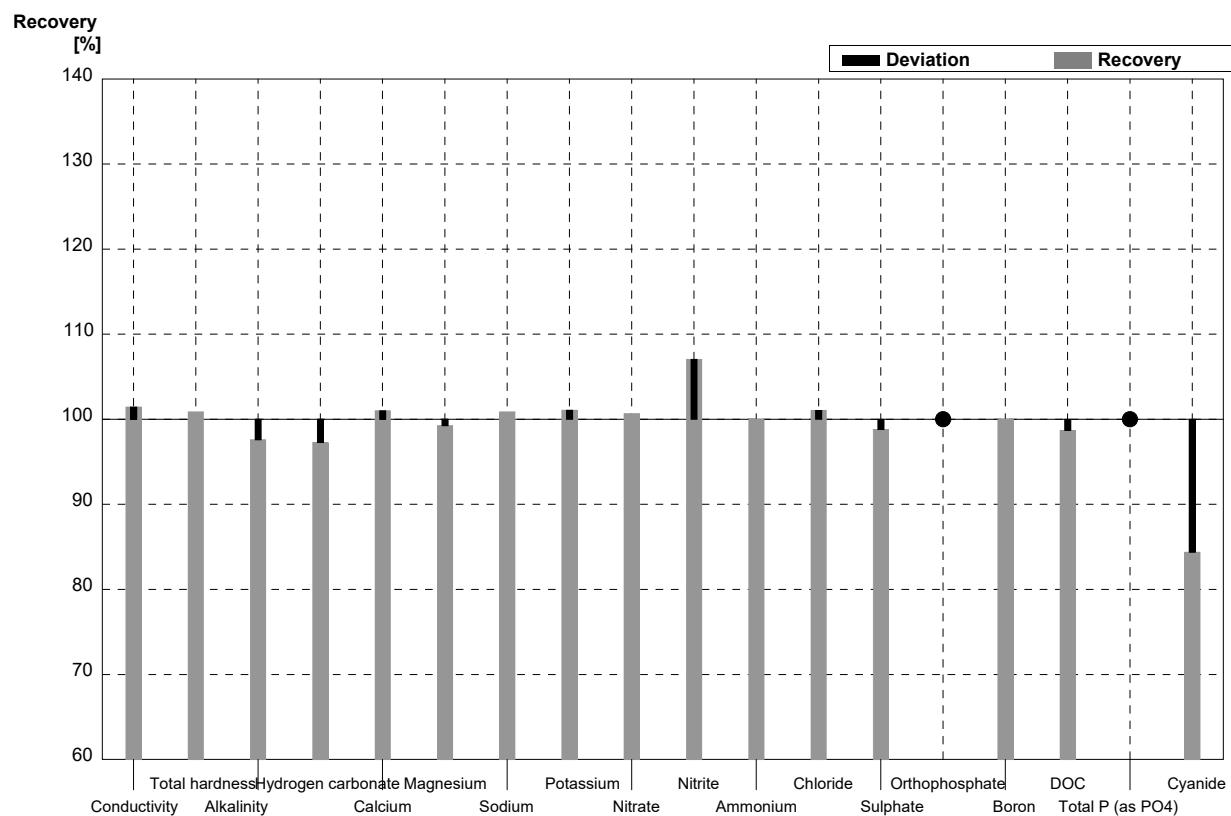
Sample N148A
Laboratory Q

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	490	15	µS/cm	101%
Total hardness	1,55	0,02	1,57	0,18	mmol/l	101%
Alkalinity	3,48	0,03	3,41	0,13	mmol/l	98%
Hydrogen carbonate	209	2	205	7	mg/l	98%
Calcium	49,7	0,6	50,6	4,6	mg/l	102%
Magnesium	7,41	0,07	7,39	0,67	mg/l	100%
Sodium	38,6	0,4	38,7	3,1	mg/l	100%
Potassium	7,66	0,05	7,75	0,62	mg/l	101%
Nitrate	36,4	0,2	36,3	3,0	mg/l	100%
Nitrite	0,036	0,001	0,041	0,006	mg/l	114%
Ammonium	<0,01		<0,008		mg/l	•
Chloride	21,1	0,1	20,3	1,1	mg/l	96%
Sulphate	14,9	0,1	14,1	0,8	mg/l	95%
Orthophosphate	0,055	0,003	0,056	0,006	mg/l	102%
Boron	0,052	0,001	0,053	0,007	mg/l	102%
DOC	3,65	0,05	3,61	0,32	mg/l	99%
Total P (as PO ₄)	0,118	0,003	0,119	0,012	mg/l	101%
Cyanide	0,072	0,002	0,070	0,015	mg/l	97%



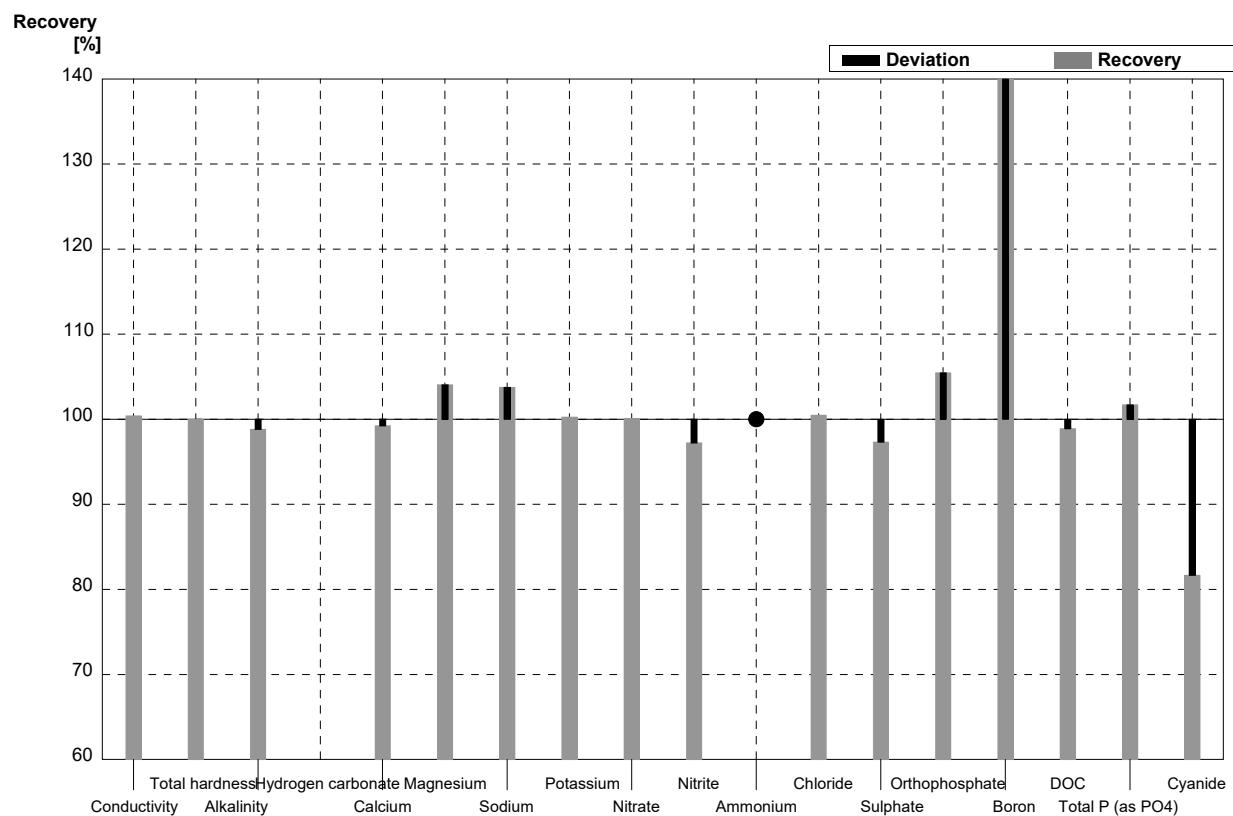
Sample N148B
Laboratory Q

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	559	17	µS/cm	101%
Total hardness	2,27	0,01	2,29	0,25	mmol/l	101%
Alkalinity	1,25	0,01	1,22	0,06	mmol/l	98%
Hydrogen carbonate	73,4	0,9	71,4	2,9	mg/l	97%
Calcium	69,3	0,4	70,0	6,3	mg/l	101%
Magnesium	13,2	0,1	13,1	1,2	mg/l	99%
Sodium	11,4	0,2	11,5	1,0	mg/l	101%
Potassium	1,88	0,05	1,90	0,17	mg/l	101%
Nitrate	73,1	0,4	73,6	5,9	mg/l	101%
Nitrite	0,071	0,002	0,076	0,009	mg/l	107%
Ammonium	0,075	0,005	0,075	0,009	mg/l	100%
Chloride	57,2	0,3	57,8	2,9	mg/l	101%
Sulphate	50,4	0,3	49,8	2,5	mg/l	99%
Orthophosphate	<0,009		<0,006		mg/l	•
Boron	0,112	0,001	0,112	0,011	mg/l	100%
DOC	4,58	0,05	4,52	0,41	mg/l	99%
Total P (as PO ₄)	<0,009		<0,006		mg/l	•
Cyanide	0,032	0,002	0,027	0,007	mg/l	84%



Sample N148A
Laboratory R

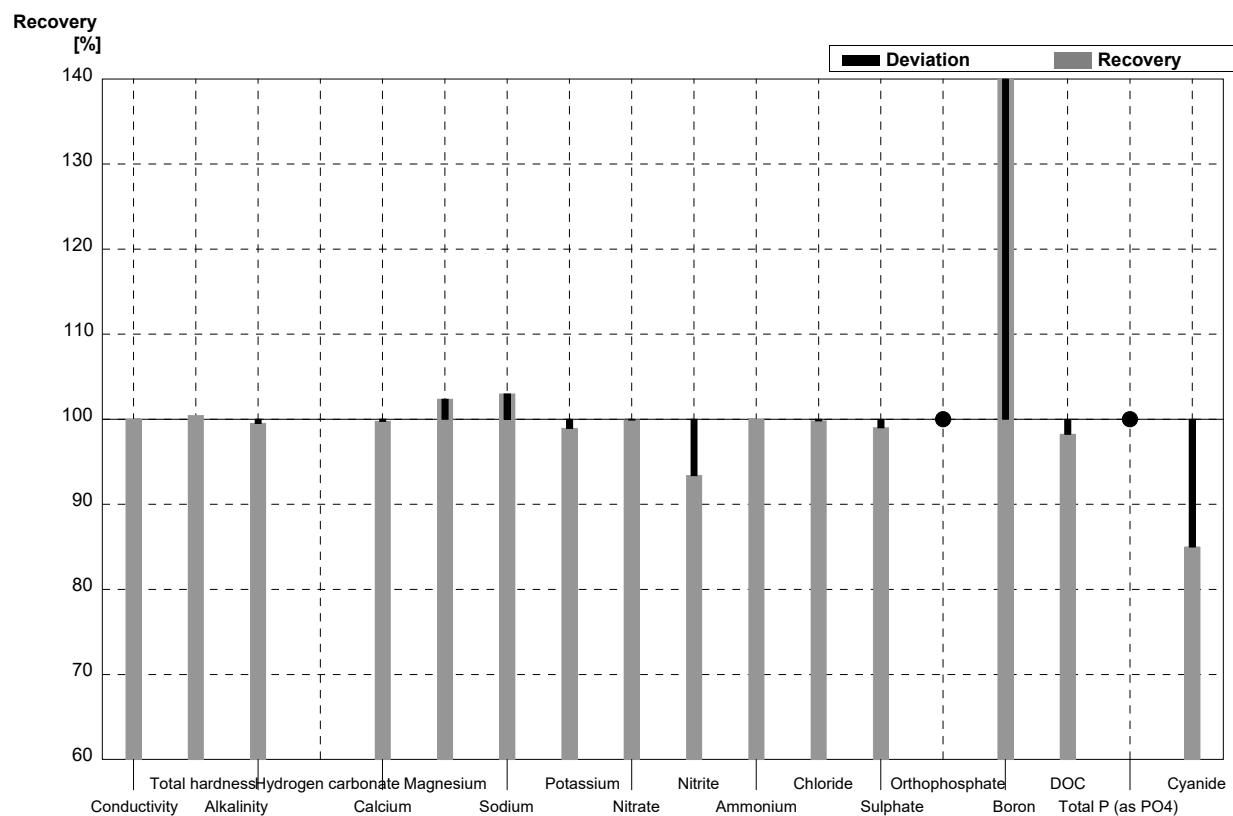
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	489	13,7	µS/cm	100%
Total hardness	1,55	0,02	1,55	0,16	mmol/l	100%
Alkalinity	3,48	0,03	3,439	0,2	mmol/l	99%
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	49,32	2,61	mg/l	99%
Magnesium	7,41	0,07	7,71	0,66	mg/l	104%
Sodium	38,6	0,4	40,05	3,12	mg/l	104%
Potassium	7,66	0,05	7,68	0,72	mg/l	100%
Nitrate	36,4	0,2	36,433	1,89	mg/l	100%
Nitrite	0,036	0,001	0,035	0,004	mg/l	97%
Ammonium	<0,01		<0,025		mg/l	•
Chloride	21,1	0,1	21,2	1,31	mg/l	100%
Sulphate	14,9	0,1	14,5	0,86	mg/l	97%
Orthophosphate	0,055	0,003	0,058	0,006	mg/l	105%
Boron	0,052	0,001	53,43	5,24	mg/l	102750%
DOC	3,65	0,05	3,61	0,65	mg/l	99%
Total P (as PO ₄)	0,118	0,003	0,12	0,03	mg/l	102%
Cyanide	0,072	0,002	0,0588	0,012	mg/l	82%



Sample N148B

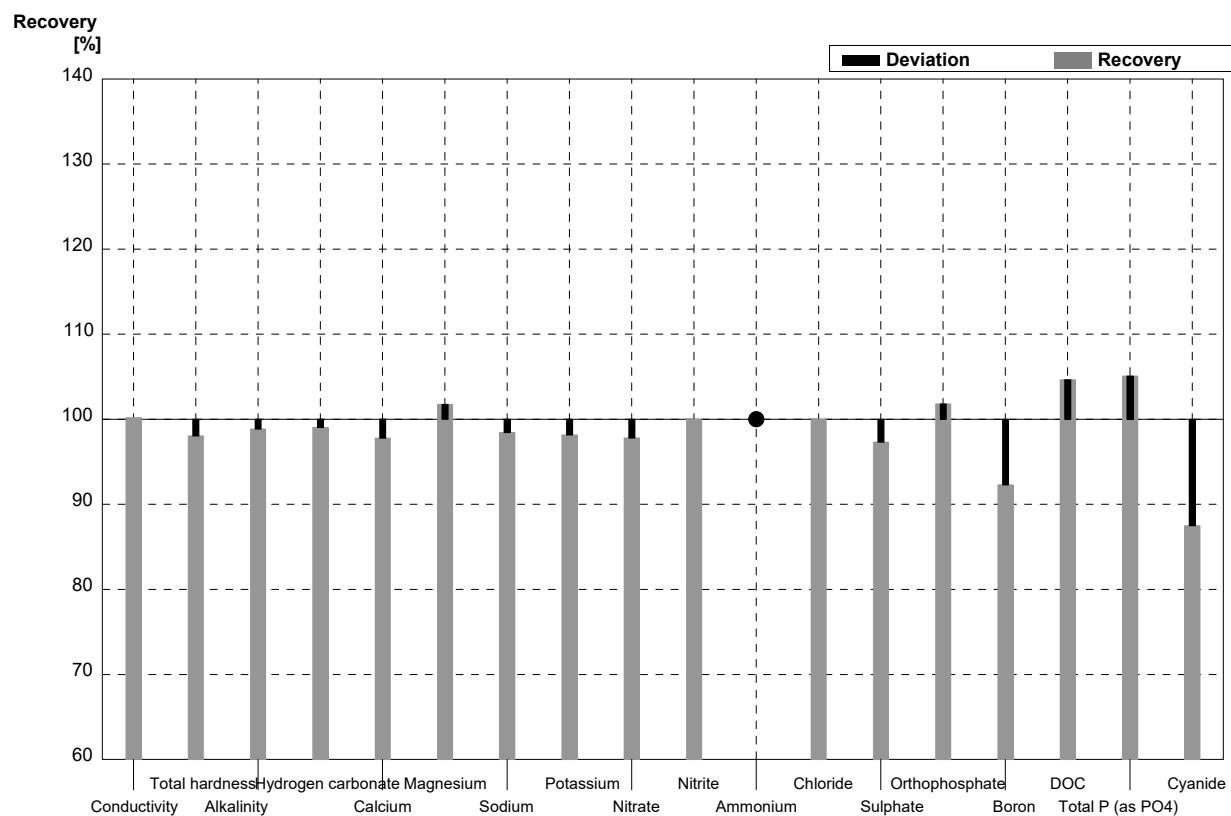
Laboratory R

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	551	15,4	µS/cm	100%
Total hardness	2,27	0,01	2,28	0,23	mmol/l	100%
Alkalinity	1,25	0,01	1,244	0,07	mmol/l	100%
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	69,14	3,66	mg/l	100%
Magnesium	13,2	0,1	13,51	1,16	mg/l	102%
Sodium	11,4	0,2	11,74	0,92	mg/l	103%
Potassium	1,88	0,05	1,86	0,17	mg/l	99%
Nitrate	73,1	0,4	73,04	3,8	mg/l	100%
Nitrite	0,071	0,002	0,0663	0,007	mg/l	93%
Ammonium	0,075	0,005	0,075	0,008	mg/l	100%
Chloride	57,2	0,3	57,1	3,54	mg/l	100%
Sulphate	50,4	0,3	49,9	2,94	mg/l	99%
Orthophosphate	<0,009		<0,05		mg/l	•
Boron	0,112	0,001	113,618	11,13	mg/l	101445%
DOC	4,58	0,05	4,5	0,81	mg/l	98%
Total P (as PO ₄)	<0,009		<0,015		mg/l	•
Cyanide	0,032	0,002	0,0272	0,005	mg/l	85%



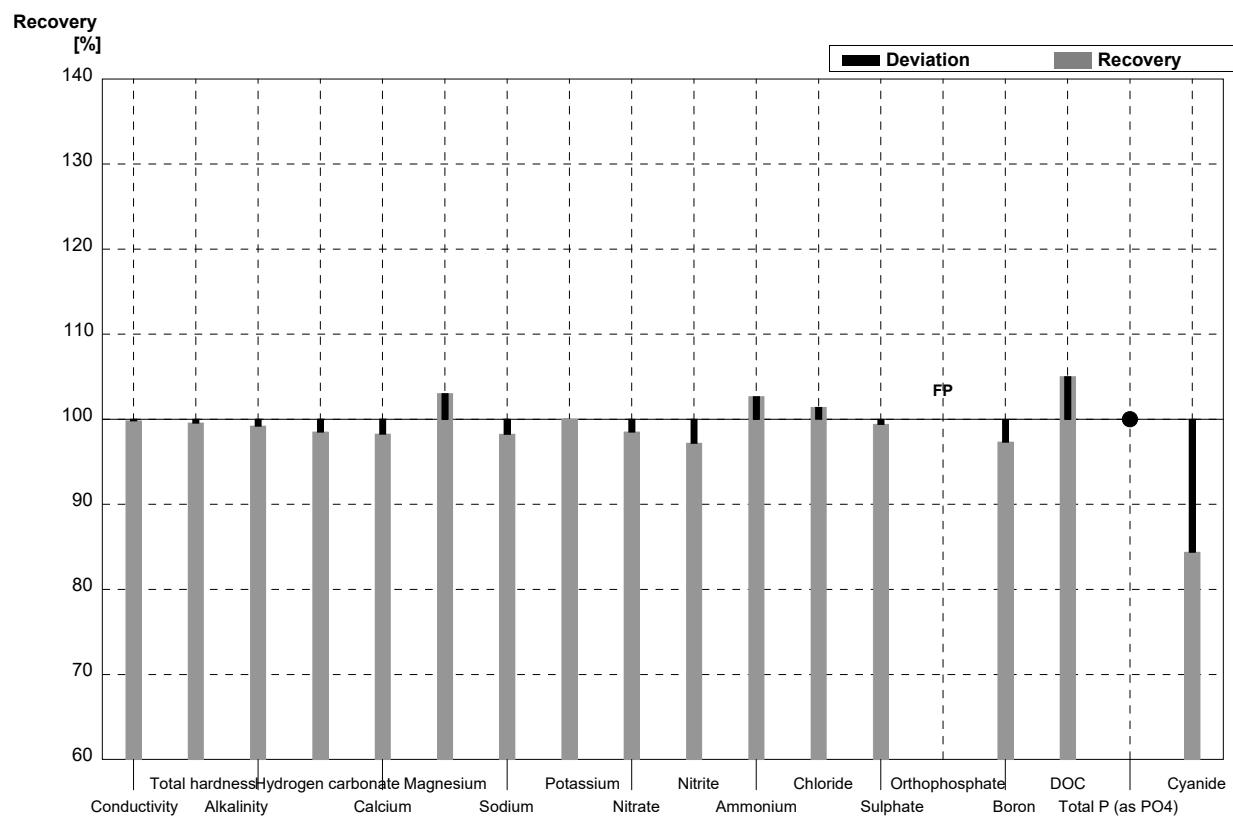
Sample N148A
Laboratory S

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	488	20	µS/cm	100%
Total hardness	1,55	0,02	1,52	0,14	mmol/l	98%
Alkalinity	3,48	0,03	3,44	0,14	mmol/l	99%
Hydrogen carbonate	209	2	207	8,28	mg/l	99%
Calcium	49,7	0,6	48,6	4,37	mg/l	98%
Magnesium	7,41	0,07	7,54	0,68	mg/l	102%
Sodium	38,6	0,4	38,0	3,42	mg/l	98%
Potassium	7,66	0,05	7,52	0,68	mg/l	98%
Nitrate	36,4	0,2	35,6	3,20	mg/l	98%
Nitrite	0,036	0,001	0,036	0,003	mg/l	100%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	21,1	0,1	21,1	1,90	mg/l	100%
Sulphate	14,9	0,1	14,5	1,31	mg/l	97%
Orthophosphate	0,055	0,003	0,056	0,005	mg/l	102%
Boron	0,052	0,001	0,048	0,009	mg/l	92%
DOC	3,65	0,05	3,82	0,34	mg/l	105%
Total P (as PO ₄)	0,118	0,003	0,124	0,011	mg/l	105%
Cyanide	0,072	0,002	0,063	0,006	mg/l	88%



Sample N148B
Laboratory S

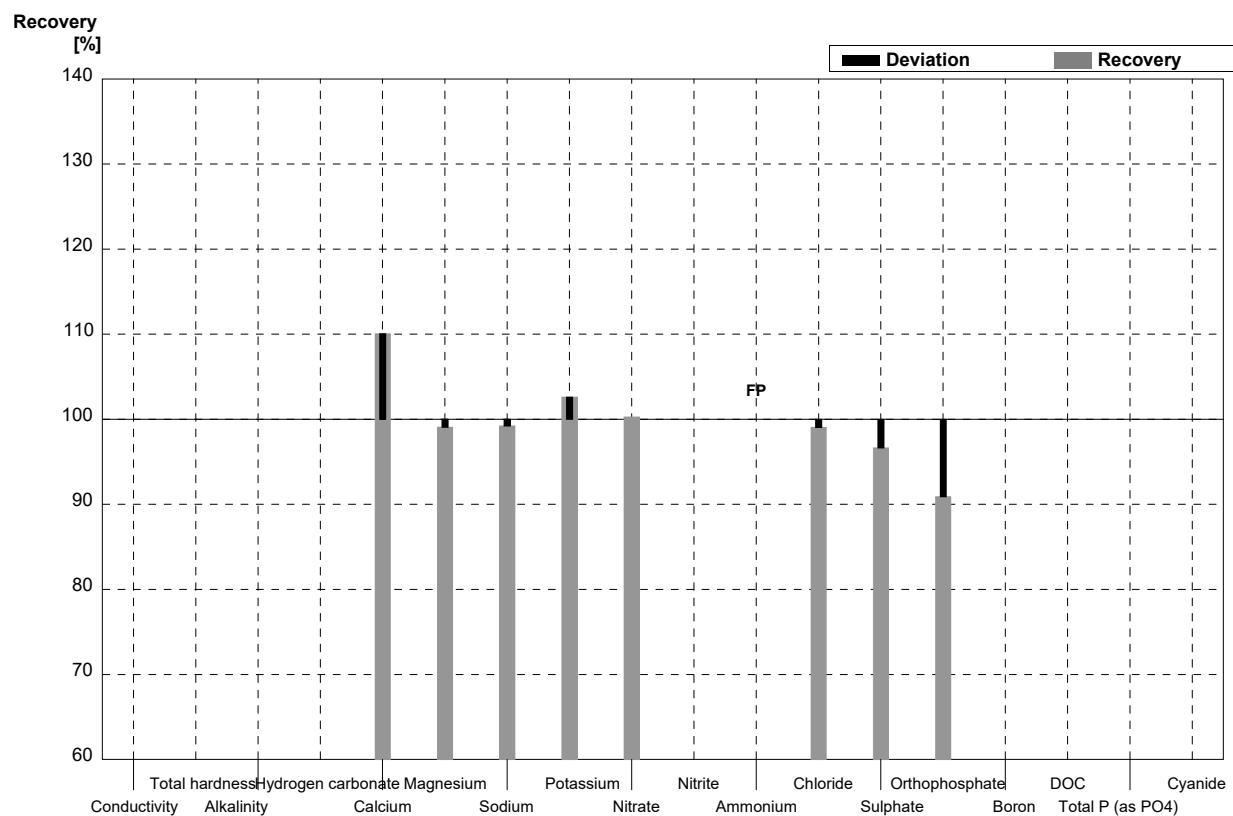
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	550	22	µS/cm	100%
Total hardness	2,27	0,01	2,26	0,20	mmol/l	100%
Alkalinity	1,25	0,01	1,24	0,05	mmol/l	99%
Hydrogen carbonate	73,4	0,9	72,3	2,89	mg/l	99%
Calcium	69,3	0,4	68,1	6,13	mg/l	98%
Magnesium	13,2	0,1	13,6	1,22	mg/l	103%
Sodium	11,4	0,2	11,2	1,01	mg/l	98%
Potassium	1,88	0,05	1,88	0,17	mg/l	100%
Nitrate	73,1	0,4	72,0	6,48	mg/l	98%
Nitrite	0,071	0,002	0,069	0,006	mg/l	97%
Ammonium	0,075	0,005	0,077	0,007	mg/l	103%
Chloride	57,2	0,3	58,0	5,22	mg/l	101%
Sulphate	50,4	0,3	50,1	4,51	mg/l	99%
Orthophosphate	<0,009		0,013	0,001	mg/l	FP
Boron	0,112	0,001	0,109	0,02	mg/l	97%
DOC	4,58	0,05	4,81	0,43	mg/l	105%
Total P (as PO ₄)	<0,009		<0,05		mg/l	•
Cyanide	0,032	0,002	0,027	0,002	mg/l	84%



Sample N148A

Laboratory T

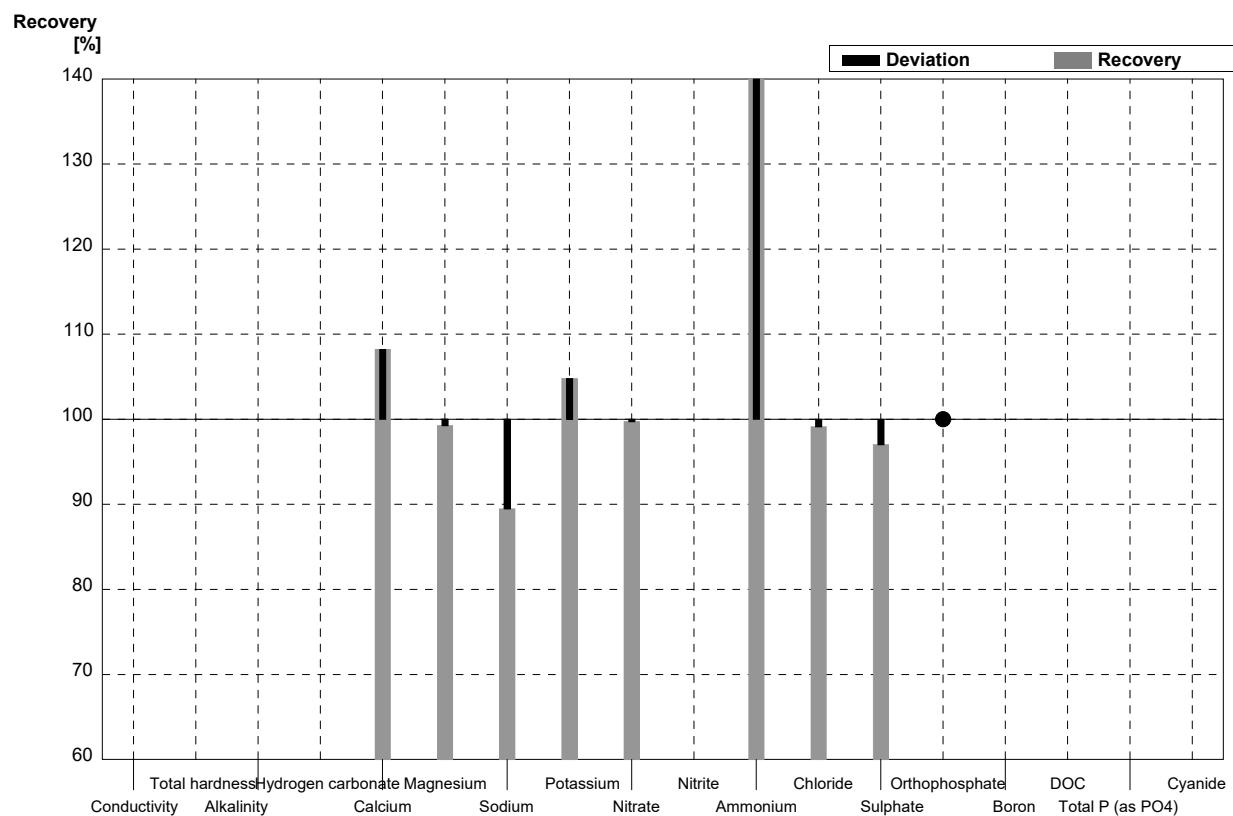
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	487	2			$\mu\text{S}/\text{cm}$	
Total hardness	1,55	0,02			mmol/l	
Alkalinity	3,48	0,03			mmol/l	
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	54,7	1,0	mg/l	110%
Magnesium	7,41	0,07	7,34	0,20	mg/l	99%
Sodium	38,6	0,4	38,3	0,4	mg/l	99%
Potassium	7,66	0,05	7,86	0,20	mg/l	103%
Nitrate	36,4	0,2	36,5	0,4	mg/l	100%
Nitrite	0,036	0,001			mg/l	
Ammonium	<0,01		0,08	0,02	mg/l	FP
Chloride	21,1	0,1	20,9	0,3	mg/l	99%
Sulphate	14,9	0,1	14,4	0,1	mg/l	97%
Orthophosphate	0,055	0,003	0,05	0,01	mg/l	91%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



Sample N148B

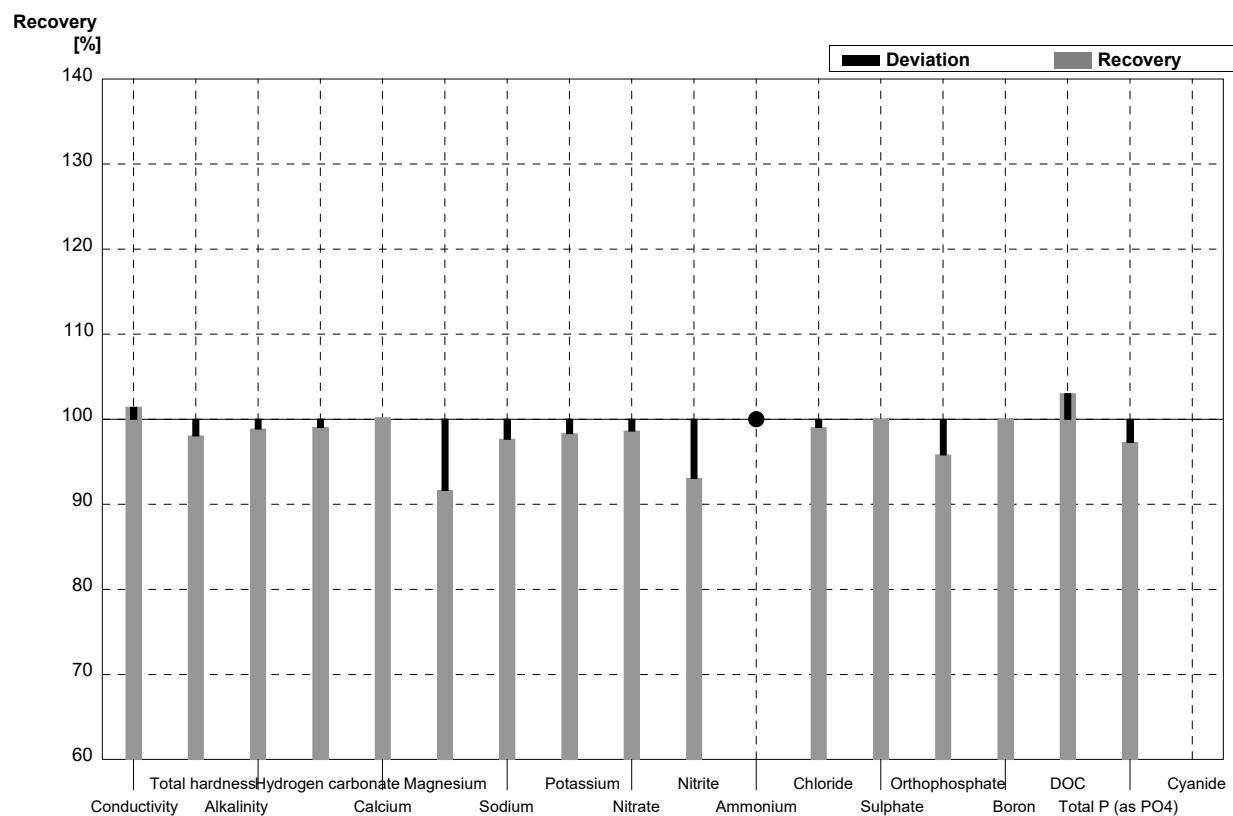
Laboratory T

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2			µS/cm	
Total hardness	2,27	0,01			mmol/l	
Alkalinity	1,25	0,01			mmol/l	
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	75,0	1,0	mg/l	108%
Magnesium	13,2	0,1	13,1	0,5	mg/l	99%
Sodium	11,4	0,2	10,2	0,2	mg/l	89%
Potassium	1,88	0,05	1,97	0,15	mg/l	105%
Nitrate	73,1	0,4	72,9	0,6	mg/l	100%
Nitrite	0,071	0,002			mg/l	
Ammonium	0,075	0,005	0,19	0,04	mg/l	253%
Chloride	57,2	0,3	56,7	0,4	mg/l	99%
Sulphate	50,4	0,3	48,9	0,4	mg/l	97%
Orthophosphate	<0,009		<0,01	0,01	mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



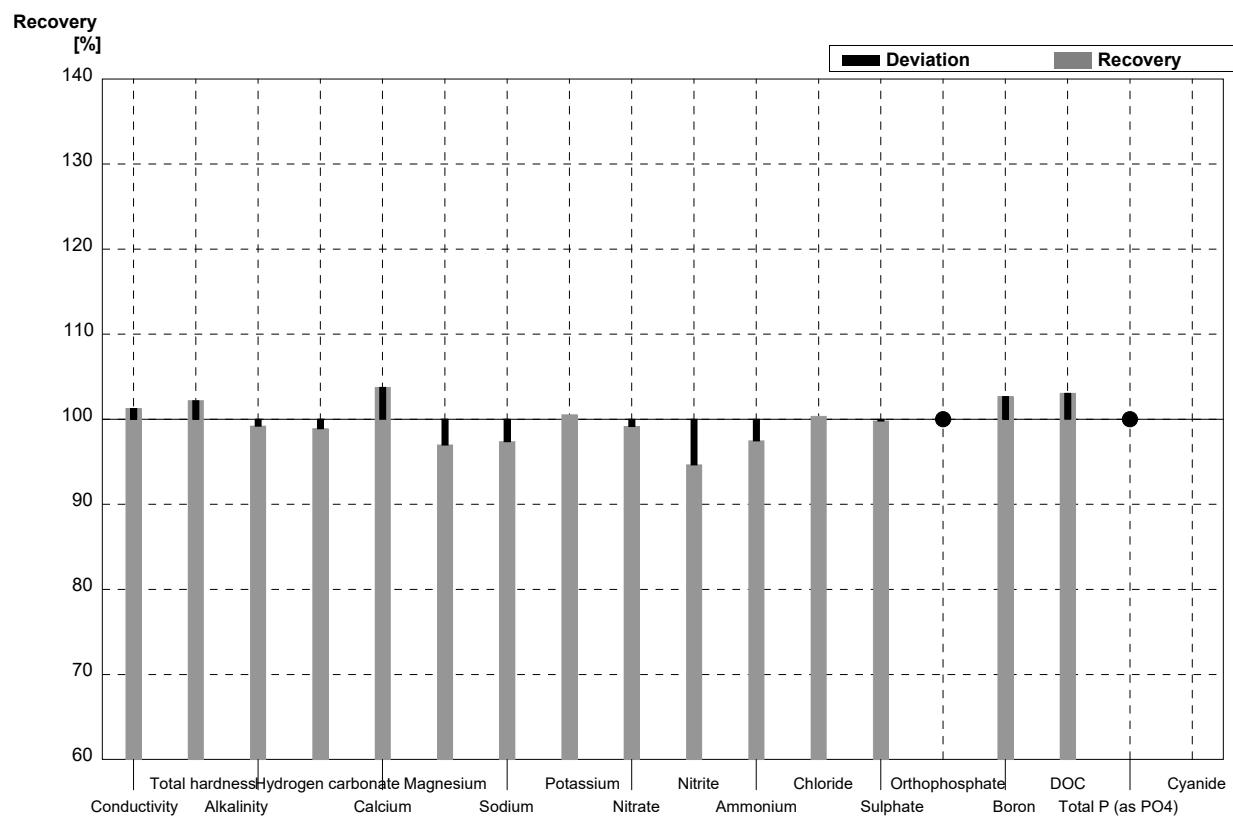
Sample N148A
Laboratory U

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	494	0,4	µS/cm	101%
Total hardness	1,55	0,02	1,52	0,02	mmol/l	98%
Alkalinity	3,48	0,03	3,44	0,12	mmol/l	99%
Hydrogen carbonate	209	2	207	4,14	mg/l	99%
Calcium	49,7	0,6	49,8	0,81	mg/l	100%
Magnesium	7,41	0,07	6,79	0,05	mg/l	92%
Sodium	38,6	0,4	37,7	0,55	mg/l	98%
Potassium	7,66	0,05	7,53	0,45	mg/l	98%
Nitrate	36,4	0,2	35,9	0,18	mg/l	99%
Nitrite	0,036	0,001	0,0335	0,0015	mg/l	93%
Ammonium	<0,01		[0,0026]		mg/l	•
Chloride	21,1	0,1	20,9	0,09	mg/l	99%
Sulphate	14,9	0,1	14,9	0,36	mg/l	100%
Orthophosphate	0,055	0,003	0,0527	0,0021	mg/l	96%
Boron	0,052	0,001	0,052	0,002	mg/l	100%
DOC	3,65	0,05	3,76	0,07	mg/l	103%
Total P (as PO ₄)	0,118	0,003	0,1148	0,0021	mg/l	97%
Cyanide	0,072	0,002			mg/l	



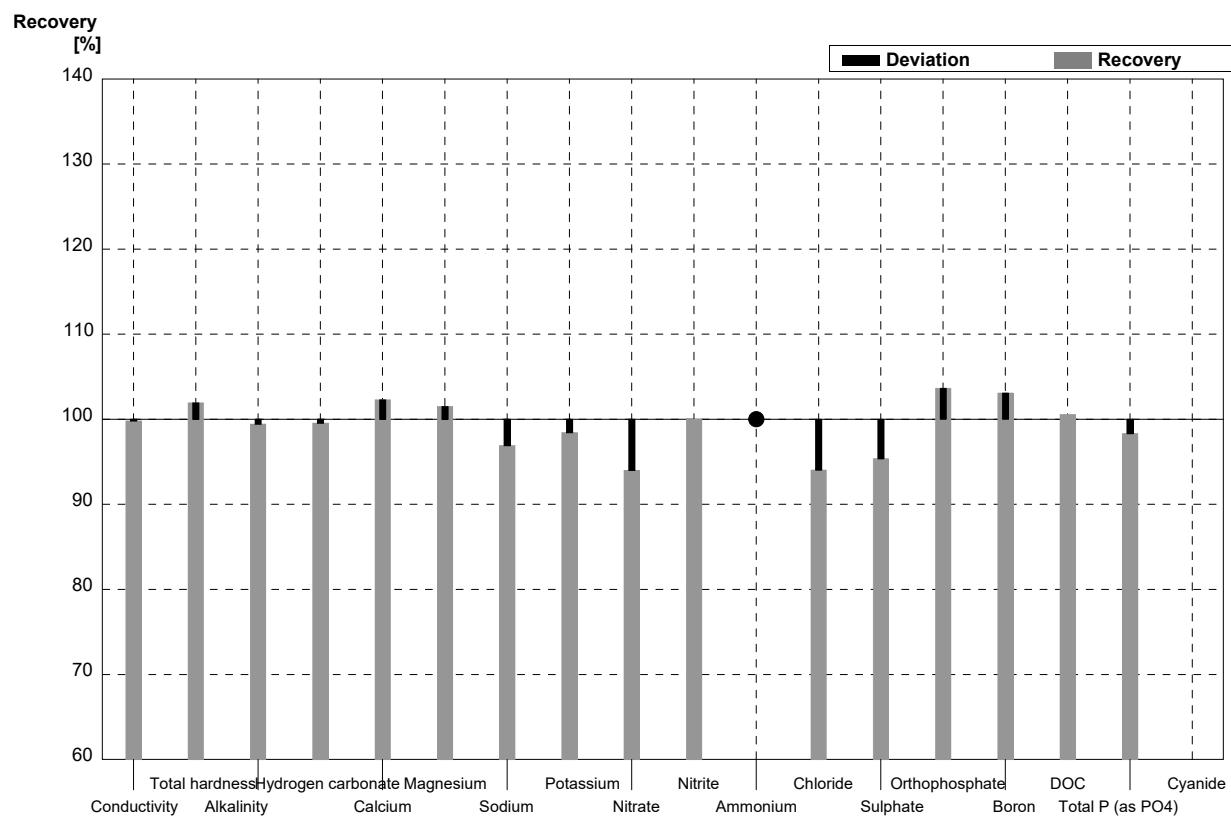
Sample N148B
Laboratory U

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	558	0,1	µS/cm	101%
Total hardness	2,27	0,01	2,32	0,03	mmol/l	102%
Alkalinity	1,25	0,01	1,24	0,07	mmol/l	99%
Hydrogen carbonate	73,4	0,9	72,6	1,45	mg/l	99%
Calcium	69,3	0,4	71,9	0,82	mg/l	104%
Magnesium	13,2	0,1	12,8	0,54	mg/l	97%
Sodium	11,4	0,2	11,1	0,58	mg/l	97%
Potassium	1,88	0,05	1,89	0,02	mg/l	101%
Nitrate	73,1	0,4	72,5	0,35	mg/l	99%
Nitrite	0,071	0,002	0,0672	0,0014	mg/l	95%
Ammonium	0,075	0,005	0,0731	0,0023	mg/l	97%
Chloride	57,2	0,3	57,4	0,17	mg/l	100%
Sulphate	50,4	0,3	50,3	0,61	mg/l	100%
Orthophosphate	<0,009		<0,0150		mg/l	•
Boron	0,112	0,001	0,115	0,001	mg/l	103%
DOC	4,58	0,05	4,72	0,07	mg/l	103%
Total P (as PO ₄)	<0,009		[0,0022]		mg/l	•
Cyanide	0,032	0,002			mg/l	



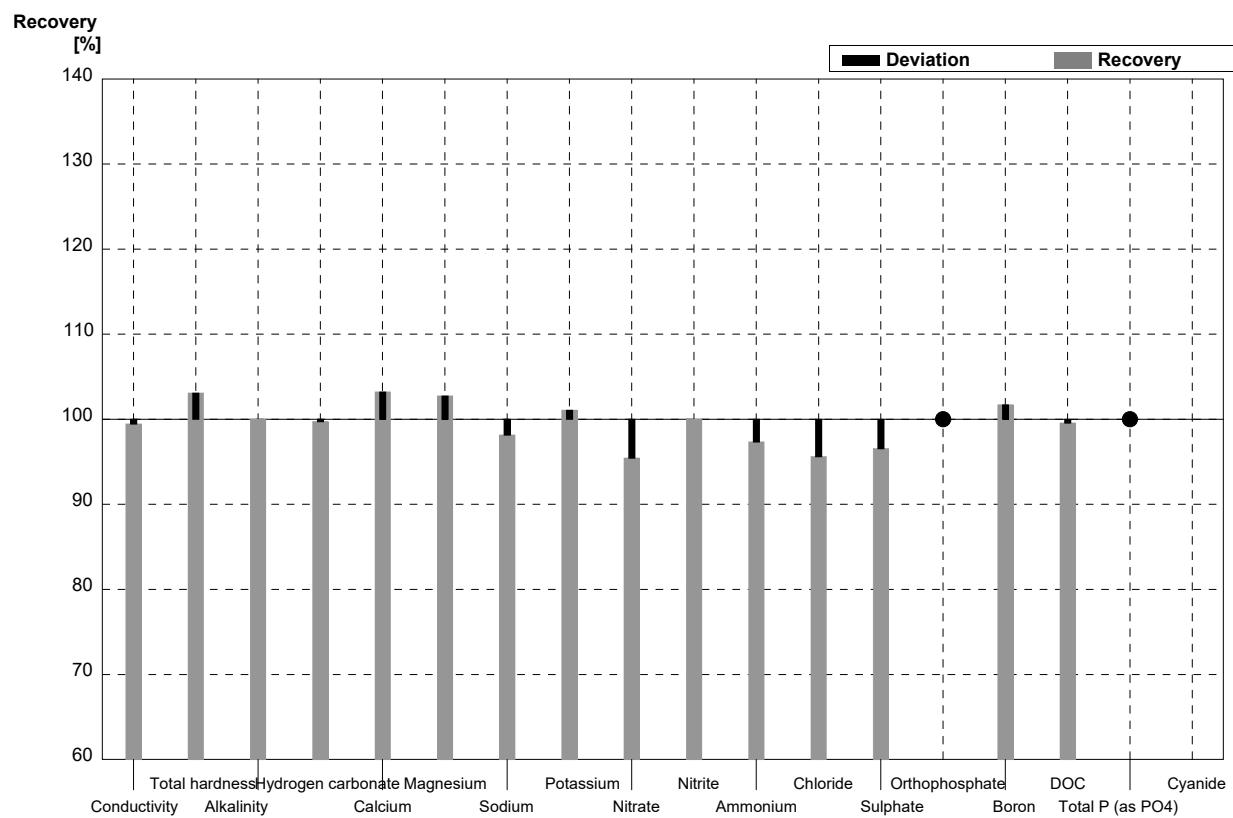
Sample N148A
Laboratory V

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	486	4,51	µS/cm	100%
Total hardness	1,55	0,02	1,58		mmol/l	102%
Alkalinity	3,48	0,03	3,46	0,35	mmol/l	99%
Hydrogen carbonate	209	2	208,04		mg/l	100%
Calcium	49,7	0,6	50,84	4,9	mg/l	102%
Magnesium	7,41	0,07	7,52	0,75	mg/l	101%
Sodium	38,6	0,4	37,40	3,7	mg/l	97%
Potassium	7,66	0,05	7,54	0,7	mg/l	98%
Nitrate	36,4	0,2	34,21	3,4	mg/l	94%
Nitrite	0,036	0,001	0,036	0,003	mg/l	100%
Ammonium	<0,01		<0,0026		mg/l	•
Chloride	21,1	0,1	19,84	2,0	mg/l	94%
Sulphate	14,9	0,1	14,21	1,4	mg/l	95%
Orthophosphate	0,055	0,003	0,057	0,006	mg/l	104%
Boron	0,052	0,001	0,0536	0,0080	mg/l	103%
DOC	3,65	0,05	3,67	0,55	mg/l	101%
Total P (as PO ₄)	0,118	0,003	0,116	0,012	mg/l	98%
Cyanide	0,072	0,002			mg/l	



Sample N148B
Laboratory V

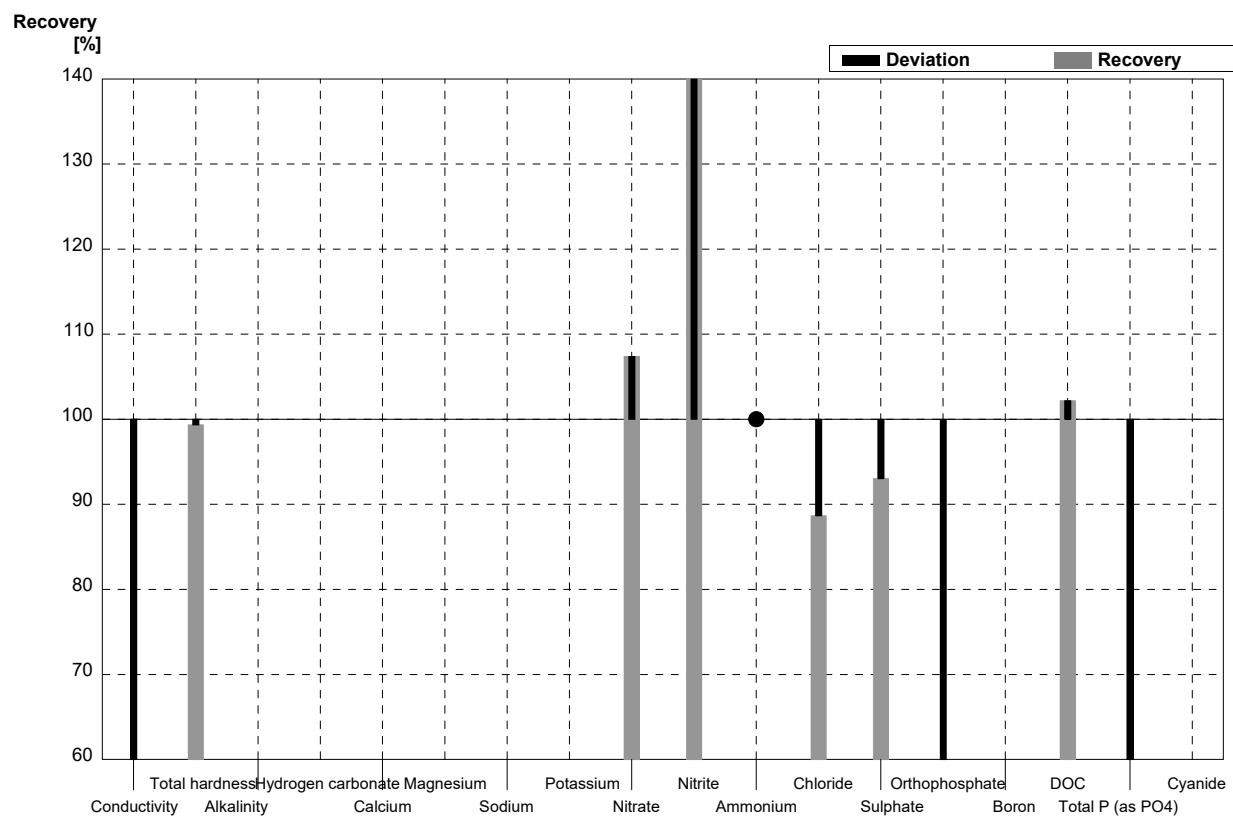
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	548	4,51	µS/cm	99%
Total hardness	2,27	0,01	2,34		mmol/l	103%
Alkalinity	1,25	0,01	1,25	0,13	mmol/l	100%
Hydrogen carbonate	73,4	0,9	73,21		mg/l	100%
Calcium	69,3	0,4	71,53	7,0	mg/l	103%
Magnesium	13,2	0,1	13,56	1,4	mg/l	103%
Sodium	11,4	0,2	11,19	1,1	mg/l	98%
Potassium	1,88	0,05	1,90	0,2	mg/l	101%
Nitrate	73,1	0,4	69,77	6,9	mg/l	95%
Nitrite	0,071	0,002	0,071	0,007	mg/l	100%
Ammonium	0,075	0,005	0,073	0,0065	mg/l	97%
Chloride	57,2	0,3	54,69	5,5	mg/l	96%
Sulphate	50,4	0,3	48,66	4,9	mg/l	97%
Orthophosphate	<0,009		<0,0055		mg/l	•
Boron	0,112	0,001	0,1139	0,0171	mg/l	102%
DOC	4,58	0,05	4,56	0,68	mg/l	100%
Total P (as PO ₄)	<0,009		<0,0010		mg/l	•
Cyanide	0,032	0,002			mg/l	



Sample N148A

Laboratory W

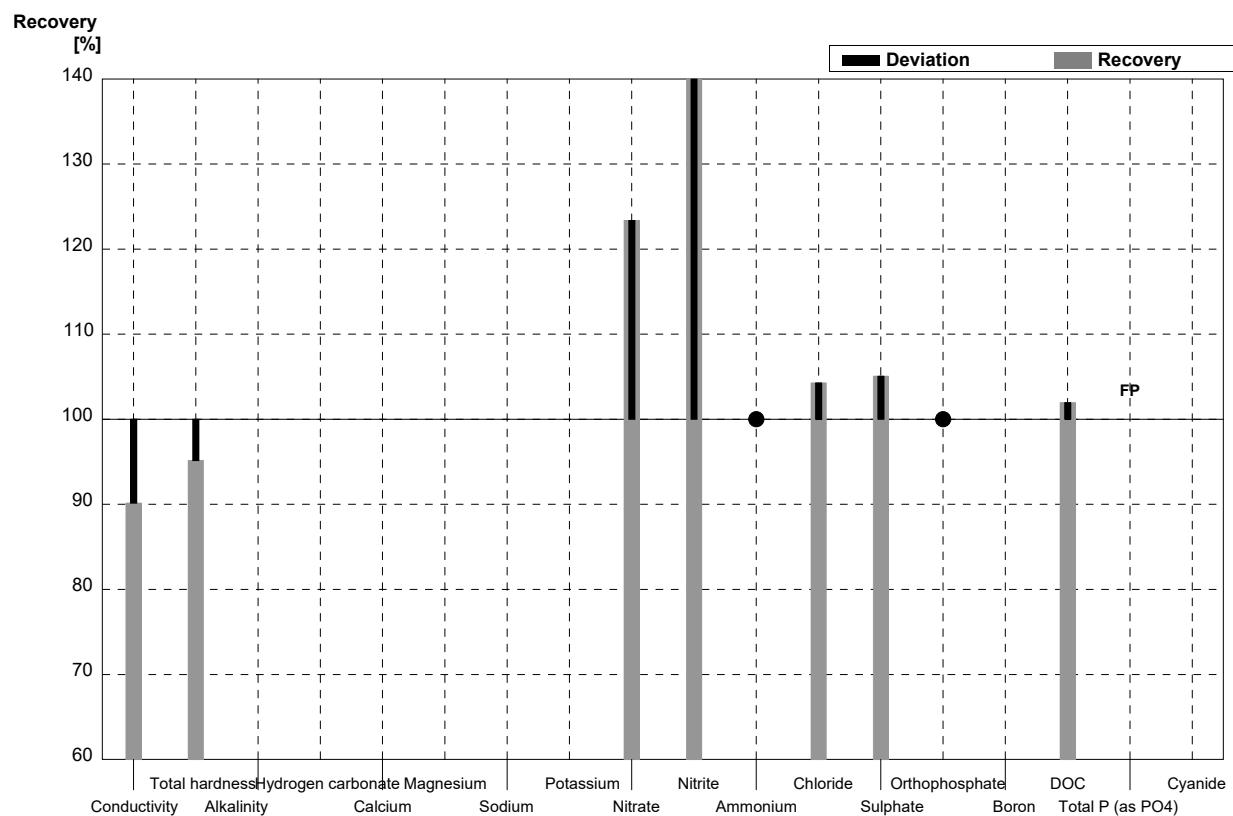
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	279,35	1	µS/cm	57%
Total hardness	1,55	0,02	1,54		mmol/l	99%
Alkalinity	3,48	0,03			mmol/l	
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6			mg/l	
Magnesium	7,41	0,07			mg/l	
Sodium	38,6	0,4			mg/l	
Potassium	7,66	0,05			mg/l	
Nitrate	36,4	0,2	39,09	0,10	mg/l	107%
Nitrite	0,036	0,001	0,10	0,05	mg/l	278%
Ammonium	<0,01		<0,10		mg/l	•
Chloride	21,1	0,1	18,71	0,10	mg/l	89%
Sulphate	14,9	0,1	13,86	0,10	mg/l	93%
Orthophosphate	0,055	0,003	0,010	0,005	mg/l	18%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05	3,73	0,05	mg/l	102%
Total P (as PO ₄)	0,118	0,003	0,011	0,005	mg/l	9%
Cyanide	0,072	0,002			mg/l	



Sample N148B

Laboratory W

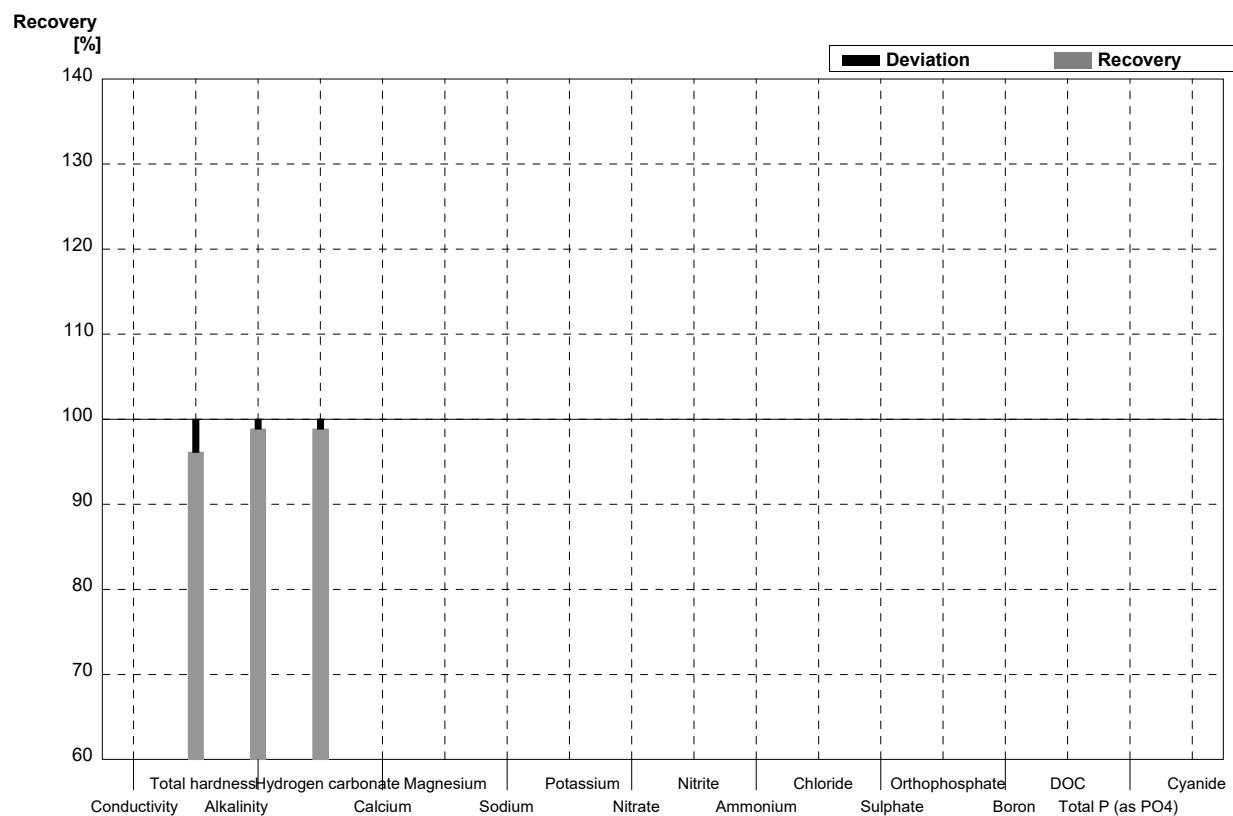
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	496,75	1	µS/cm	90%
Total hardness	2,27	0,01	2,16		mmol/l	95%
Alkalinity	1,25	0,01			mmol/l	
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4			mg/l	
Magnesium	13,2	0,1			mg/l	
Sodium	11,4	0,2			mg/l	
Potassium	1,88	0,05			mg/l	
Nitrate	73,1	0,4	90,19	0,10	mg/l	123%
Nitrite	0,071	0,002	0,32	0,05	mg/l	451%
Ammonium	0,075	0,005	<0,10		mg/l	•
Chloride	57,2	0,3	59,65	0,10	mg/l	104%
Sulphate	50,4	0,3	52,95	0,10	mg/l	105%
Orthophosphate	<0,009		<0,010	0,005	mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05	4,67	0,05	mg/l	102%
Total P (as PO ₄)	<0,009		0,044	0,005	mg/l	FP
Cyanide	0,032	0,002			mg/l	



Sample N148A

Laboratory X

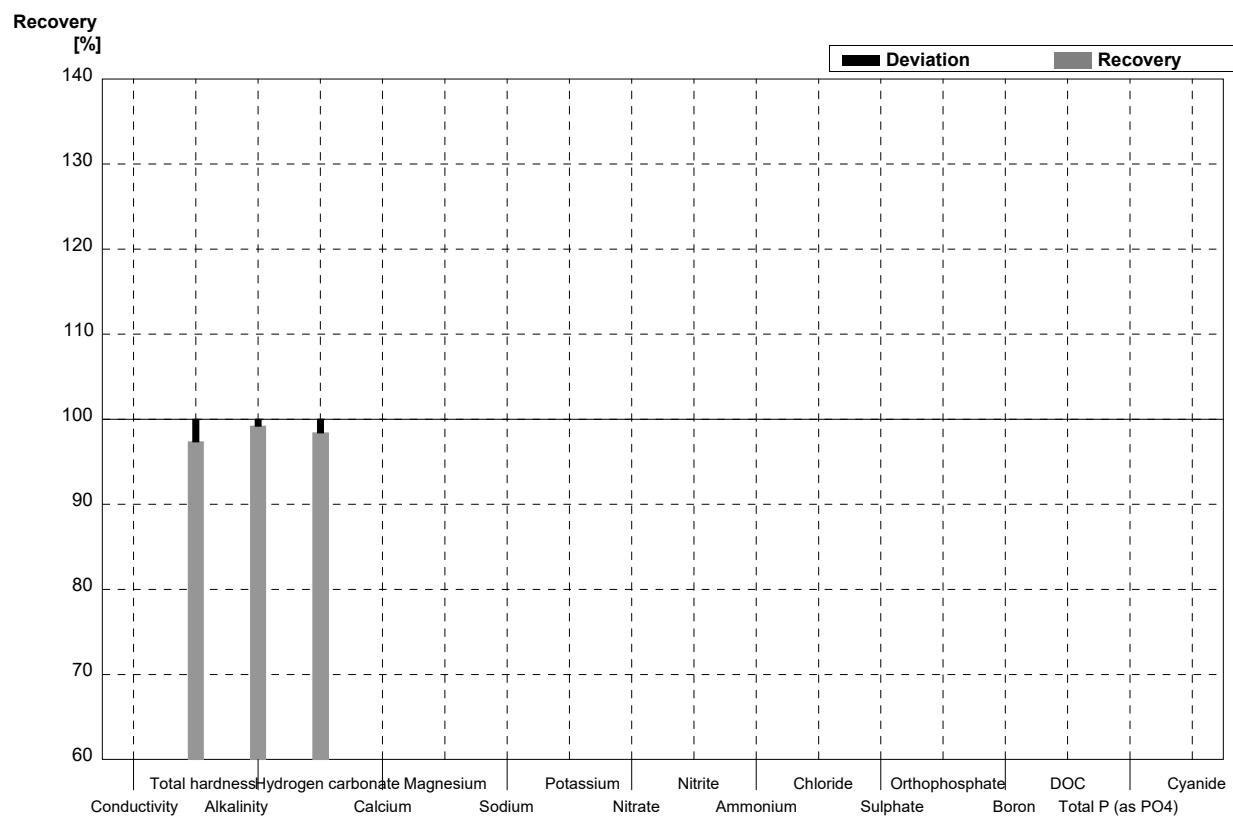
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	487	2			$\mu\text{S}/\text{cm}$	
Total hardness	1,55	0,02	1,49	0,15	mmol/l	96%
Alkalinity	3,48	0,03	3,44	0,26	mmol/l	99%
Hydrogen carbonate	209	2	206,6	20	mg/l	99%
Calcium	49,7	0,6			mg/l	
Magnesium	7,41	0,07			mg/l	
Sodium	38,6	0,4			mg/l	
Potassium	7,66	0,05			mg/l	
Nitrate	36,4	0,2			mg/l	
Nitrite	0,036	0,001			mg/l	
Ammonium	<0,01				mg/l	
Chloride	21,1	0,1			mg/l	
Sulphate	14,9	0,1			mg/l	
Orthophosphate	0,055	0,003			mg/l	
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



Sample N148B

Laboratory X

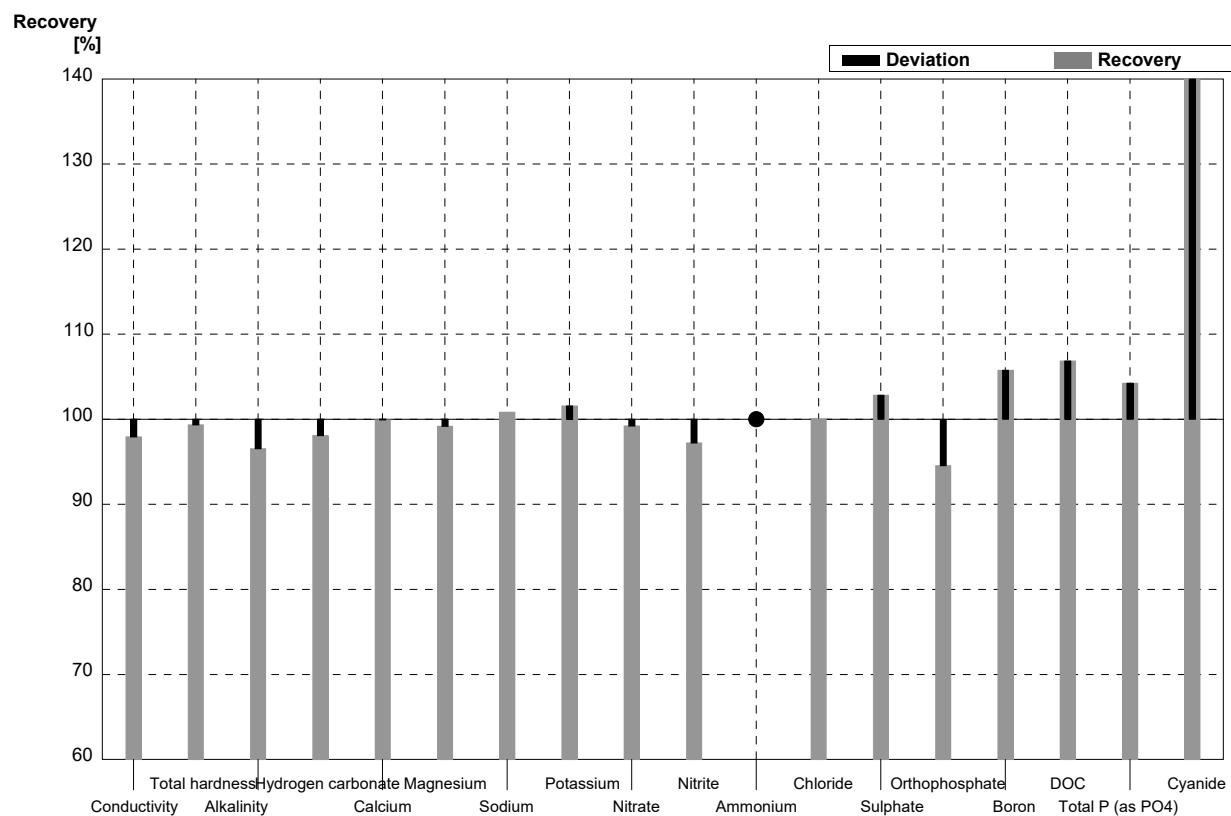
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2			µS/cm	
Total hardness	2,27	0,01	2,21	0,22	mmol/l	97%
Alkalinity	1,25	0,01	1,24	0,094	mmol/l	99%
Hydrogen carbonate	73,4	0,9	72,24	7,2	mg/l	98%
Calcium	69,3	0,4			mg/l	
Magnesium	13,2	0,1			mg/l	
Sodium	11,4	0,2			mg/l	
Potassium	1,88	0,05			mg/l	
Nitrate	73,1	0,4			mg/l	
Nitrite	0,071	0,002			mg/l	
Ammonium	0,075	0,005			mg/l	
Chloride	57,2	0,3			mg/l	
Sulphate	50,4	0,3			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



Sample N148A

Laboratory Y

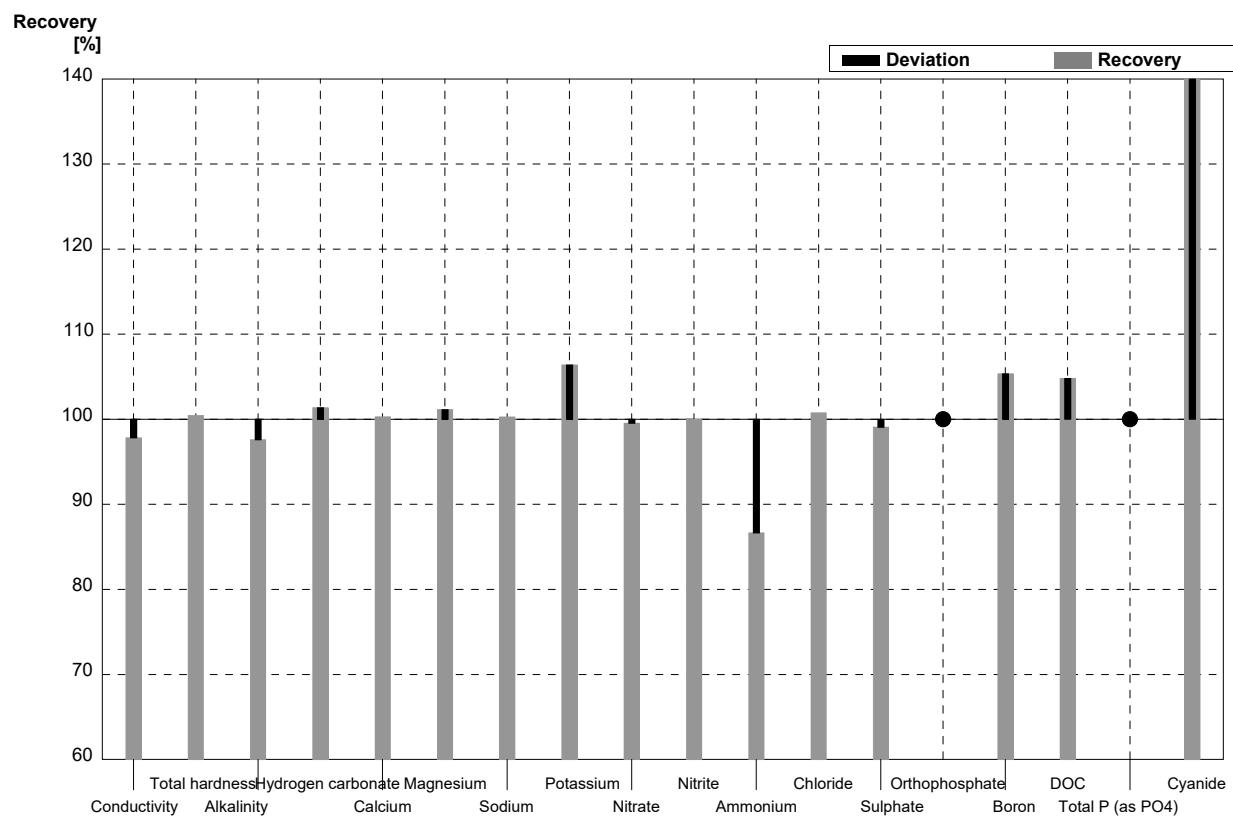
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	477	19,1	µS/cm	98%
Total hardness	1,55	0,02	1,54		mmol/l	99%
Alkalinity	3,48	0,03	3,36	0,504	mmol/l	97%
Hydrogen carbonate	209	2	205	30,75	mg/l	98%
Calcium	49,7	0,6	49,67	1,987	mg/l	100%
Magnesium	7,41	0,07	7,35	0,441	mg/l	99%
Sodium	38,6	0,4	38,92	2,335	mg/l	101%
Potassium	7,66	0,05	7,78	0,778	mg/l	102%
Nitrate	36,4	0,2	36,114	1,4446	mg/l	99%
Nitrite	0,036	0,001	0,035	0,0028	mg/l	97%
Ammonium	<0,01		0,00063		mg/l	•
Chloride	21,1	0,1	21,11	0,844	mg/l	100%
Sulphate	14,9	0,1	15,32	0,919	mg/l	103%
Orthophosphate	0,055	0,003	0,052	0,0062	mg/l	95%
Boron	0,052	0,001	0,055	0,0066	mg/l	106%
DOC	3,65	0,05	3,9	0,31	mg/l	107%
Total P (as PO ₄)	0,118	0,003	0,123	0,0184	mg/l	104%
Cyanide	0,072	0,002	73,86	7,386	mg/l	102583%



Sample N148B

Laboratory Y

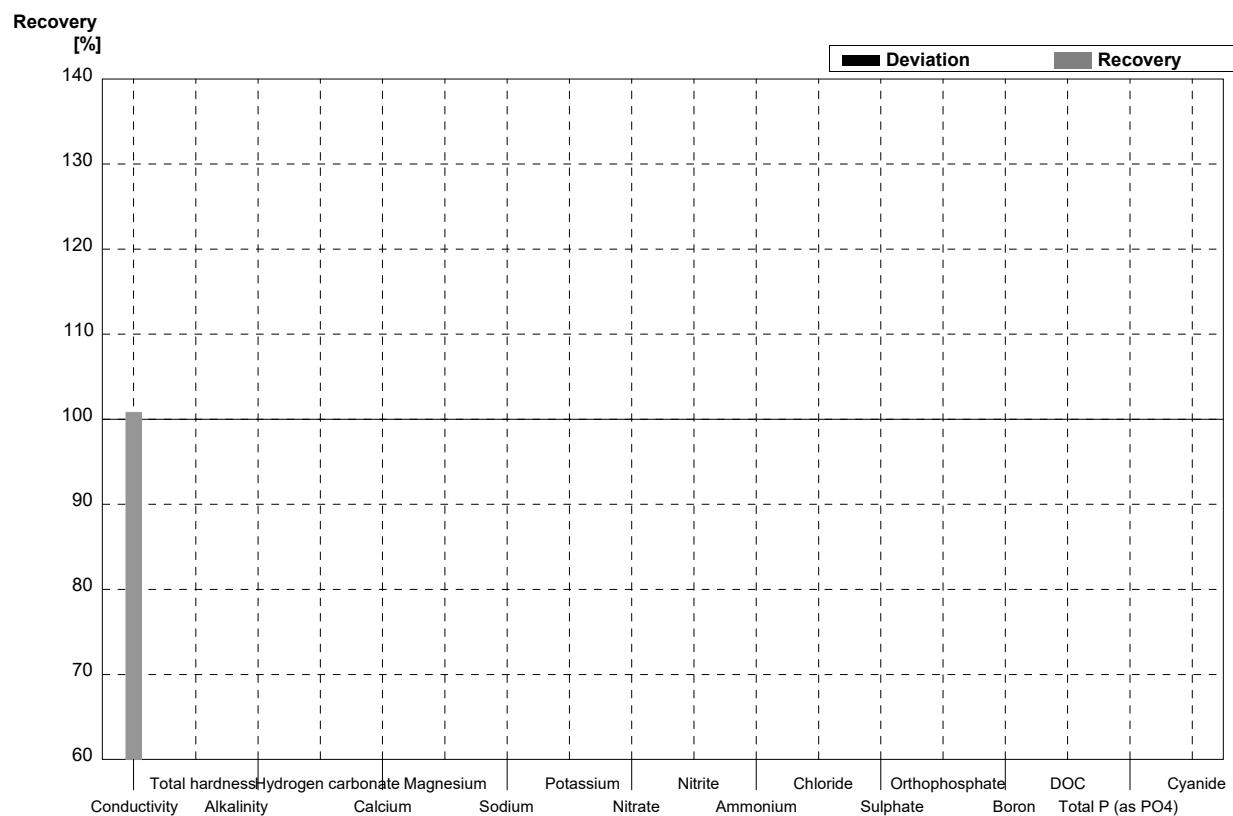
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	539	21,6	µS/cm	98%
Total hardness	2,27	0,01	2,28		mmol/l	100%
Alkalinity	1,25	0,01	1,22	0,183	mmol/l	98%
Hydrogen carbonate	73,4	0,9	74,4	11,17	mg/l	101%
Calcium	69,3	0,4	69,51	2,78	mg/l	100%
Magnesium	13,2	0,1	13,35	0,801	mg/l	101%
Sodium	11,4	0,2	11,43	0,686	mg/l	100%
Potassium	1,88	0,05	2	0,2	mg/l	106%
Nitrate	73,1	0,4	72,768	2,9107	mg/l	100%
Nitrite	0,071	0,002	0,071	0,0057	mg/l	100%
Ammonium	0,075	0,005	0,065	0,0065	mg/l	87%
Chloride	57,2	0,3	57,63	2,305	mg/l	101%
Sulphate	50,4	0,3	49,93	2,996	mg/l	99%
Orthophosphate	<0,009		0,008	0,001	mg/l	•
Boron	0,112	0,001	0,118	0,0142	mg/l	105%
DOC	4,58	0,05	4,8	0,38	mg/l	105%
Total P (as PO ₄)	<0,009		<0,015		mg/l	•
Cyanide	0,032	0,002	31,95	3,195	mg/l	99844%



Sample N148A

Laboratory Z

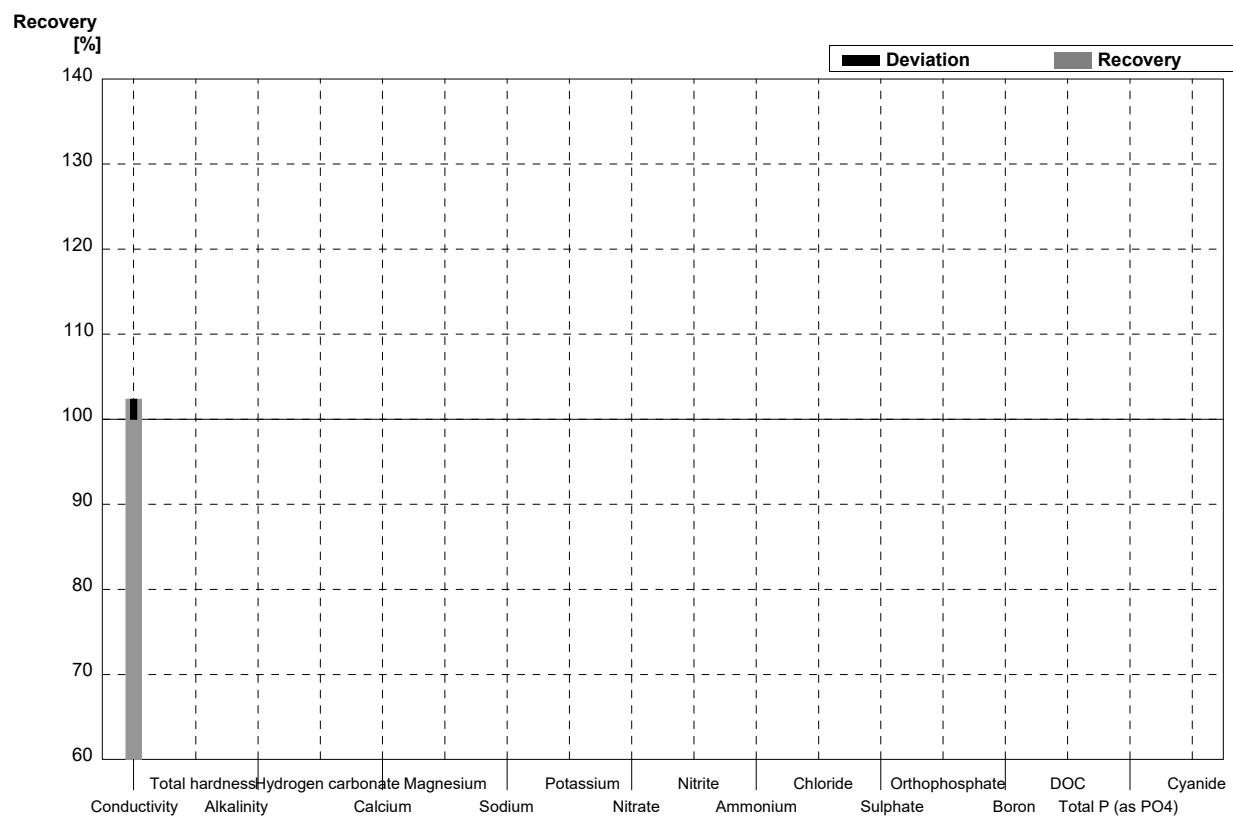
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	491		µS/cm	101%
Total hardness	1,55	0,02			mmol/l	
Alkalinity	3,48	0,03			mmol/l	
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6			mg/l	
Magnesium	7,41	0,07			mg/l	
Sodium	38,6	0,4			mg/l	
Potassium	7,66	0,05			mg/l	
Nitrate	36,4	0,2			mg/l	
Nitrite	0,036	0,001			mg/l	
Ammonium	<0,01				mg/l	
Chloride	21,1	0,1			mg/l	
Sulphate	14,9	0,1			mg/l	
Orthophosphate	0,055	0,003			mg/l	
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



Sample N148B

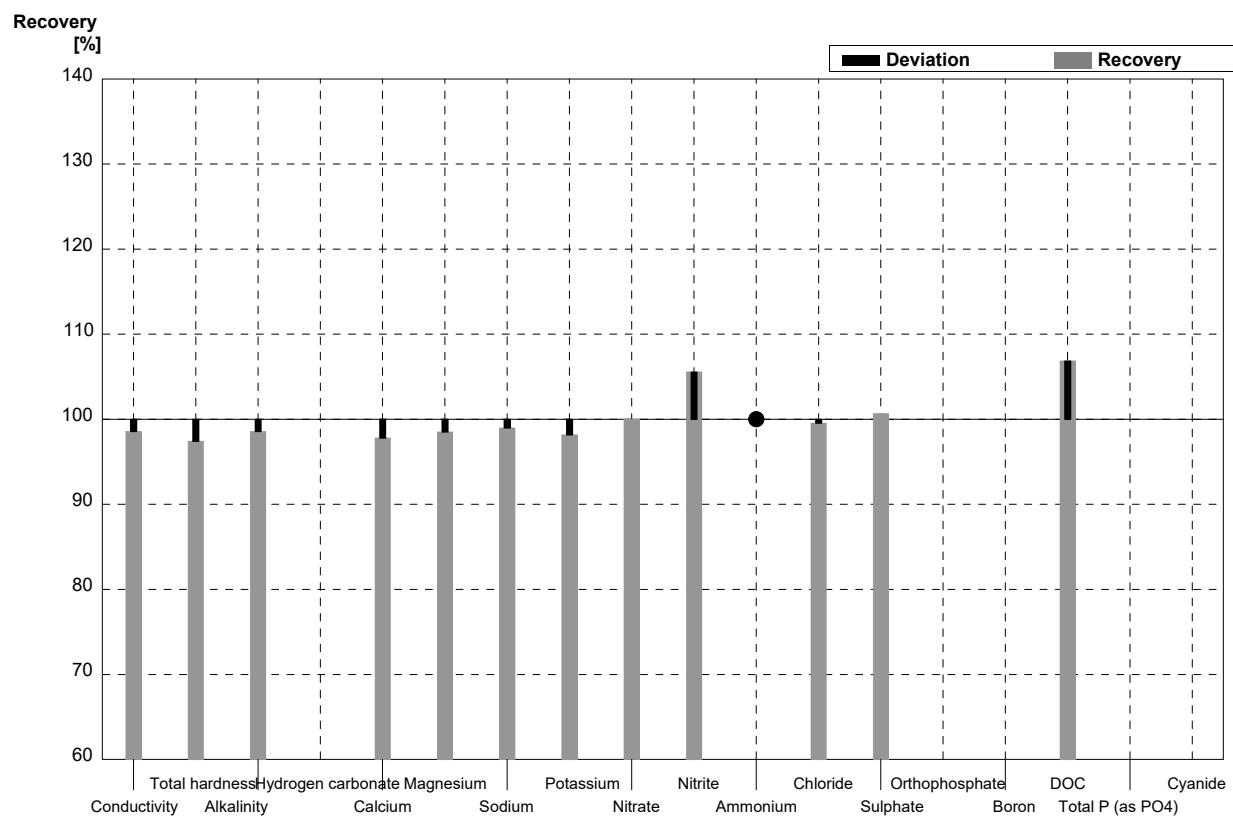
Laboratory Z

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	564		µS/cm	102%
Total hardness	2,27	0,01			mmol/l	
Alkalinity	1,25	0,01			mmol/l	
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4			mg/l	
Magnesium	13,2	0,1			mg/l	
Sodium	11,4	0,2			mg/l	
Potassium	1,88	0,05			mg/l	
Nitrate	73,1	0,4			mg/l	
Nitrite	0,071	0,002			mg/l	
Ammonium	0,075	0,005			mg/l	
Chloride	57,2	0,3			mg/l	
Sulphate	50,4	0,3			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory AA

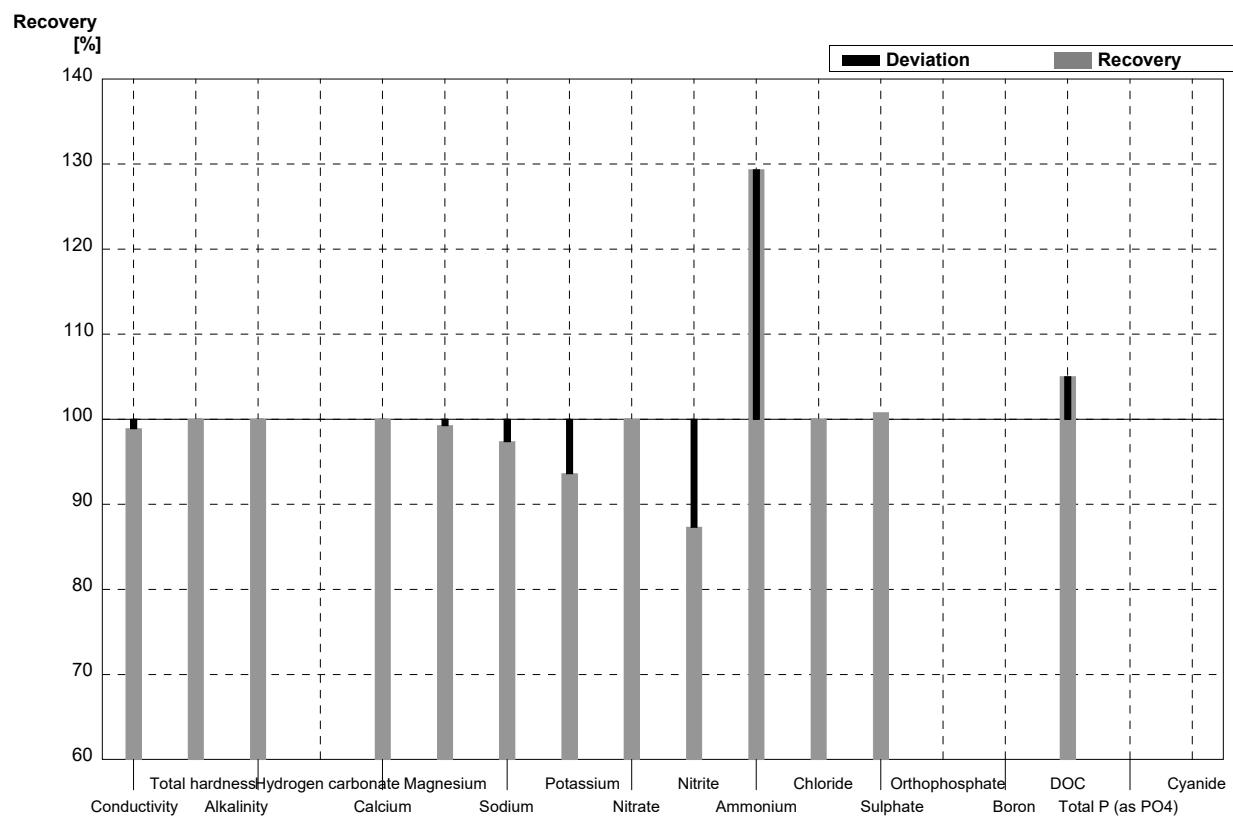
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	480	30	µS/cm	99%
Total hardness	1,55	0,02	1,51	0,05	mmol/l	97%
Alkalinity	3,48	0,03	3,43	0,02	mmol/l	99%
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	48,6	0,6	mg/l	98%
Magnesium	7,41	0,07	7,3	0,6	mg/l	99%
Sodium	38,6	0,4	38,2	0,3	mg/l	99%
Potassium	7,66	0,05	7,52	0,06	mg/l	98%
Nitrate	36,4	0,2	36,4	0,5	mg/l	100%
Nitrite	0,036	0,001	0,038	0,015	mg/l	106%
Ammonium	<0,01		<0,03	0,08	mg/l	•
Chloride	21,1	0,1	21,0	0,25	mg/l	100%
Sulphate	14,9	0,1	15,0	3,0	mg/l	101%
Orthophosphate	0,055	0,003			mg/l	
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05	3,90	0,03	mg/l	107%
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



Sample N148B

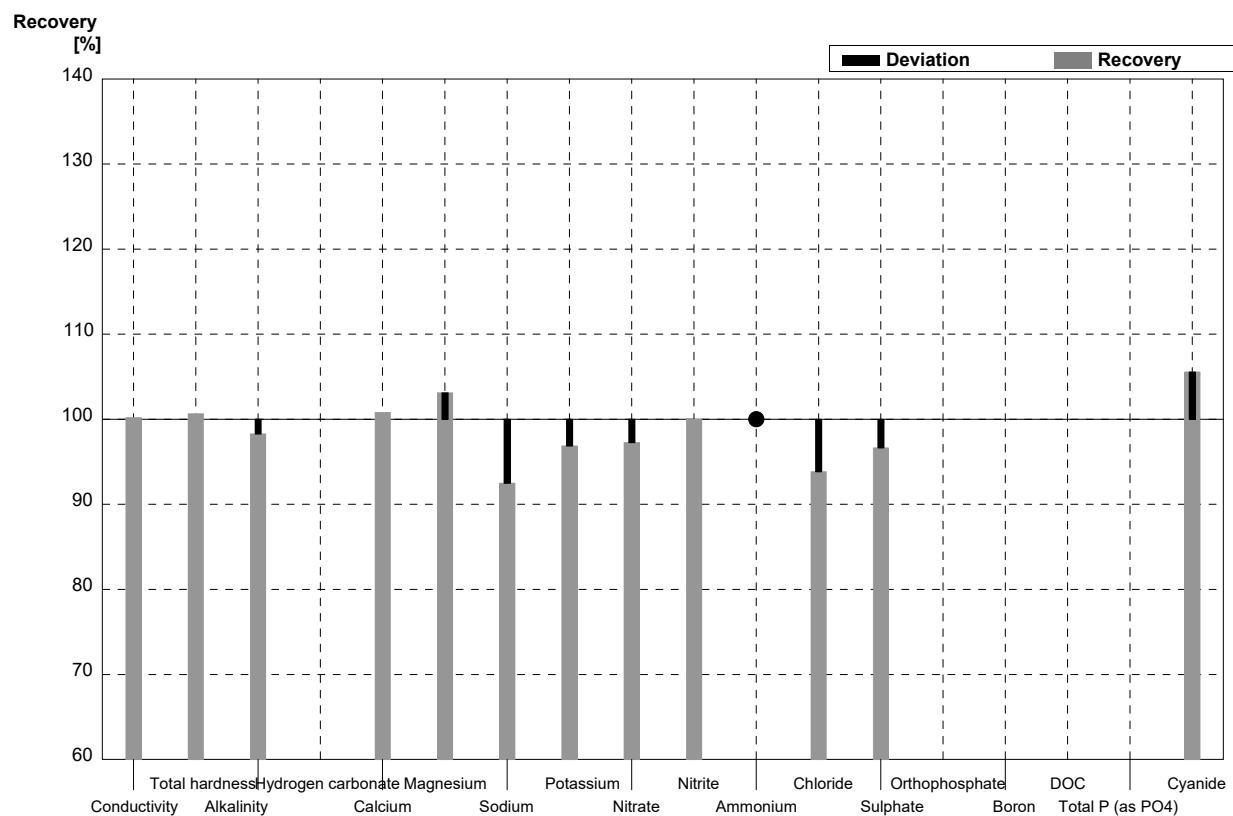
Laboratory AA

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	545	30	µS/cm	99%
Total hardness	2,27	0,01	2,27	0,05	mmol/l	100%
Alkalinity	1,25	0,01	1,25	0,02	mmol/l	100%
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	69,3	0,6	mg/l	100%
Magnesium	13,2	0,1	13,1	0,6	mg/l	99%
Sodium	11,4	0,2	11,1	0,3	mg/l	97%
Potassium	1,88	0,05	1,76	0,06	mg/l	94%
Nitrate	73,1	0,4	73,1	0,5	mg/l	100%
Nitrite	0,071	0,002	0,062	0,015	mg/l	87%
Ammonium	0,075	0,005	0,097	0,08	mg/l	129%
Chloride	57,2	0,3	57,2	0,25	mg/l	100%
Sulphate	50,4	0,3	50,8	3,0	mg/l	101%
Orthophosphate	<0,009				mg/l	
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05	4,81	0,03	mg/l	105%
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory AB

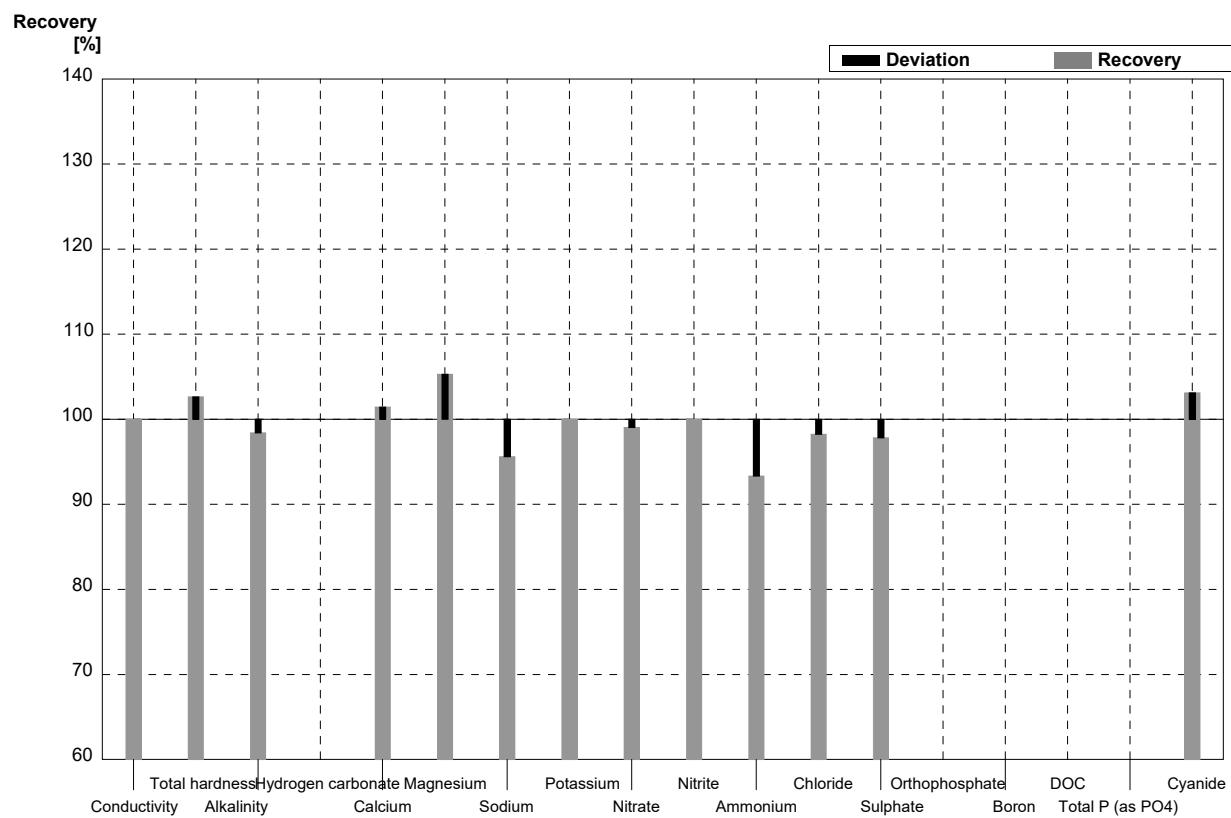
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	488	10	µS/cm	100%
Total hardness	1,55	0,02	1,56	0,16	mmol/l	101%
Alkalinity	3,48	0,03	3,42	0,35	mmol/l	98%
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	50,1	5,1	mg/l	101%
Magnesium	7,41	0,07	7,64	0,77	mg/l	103%
Sodium	38,6	0,4	35,7	3,6	mg/l	92%
Potassium	7,66	0,05	7,42	0,75	mg/l	97%
Nitrate	36,4	0,2	35,4	3,6	mg/l	97%
Nitrite	0,036	0,001	0,036	0,005	mg/l	100%
Ammonium	<0,01		<0,010		mg/l	•
Chloride	21,1	0,1	19,8	2,0	mg/l	94%
Sulphate	14,9	0,1	14,4	1,5	mg/l	97%
Orthophosphate	0,055	0,003			mg/l	
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002	0,076	0,008	mg/l	106%



Sample N148B

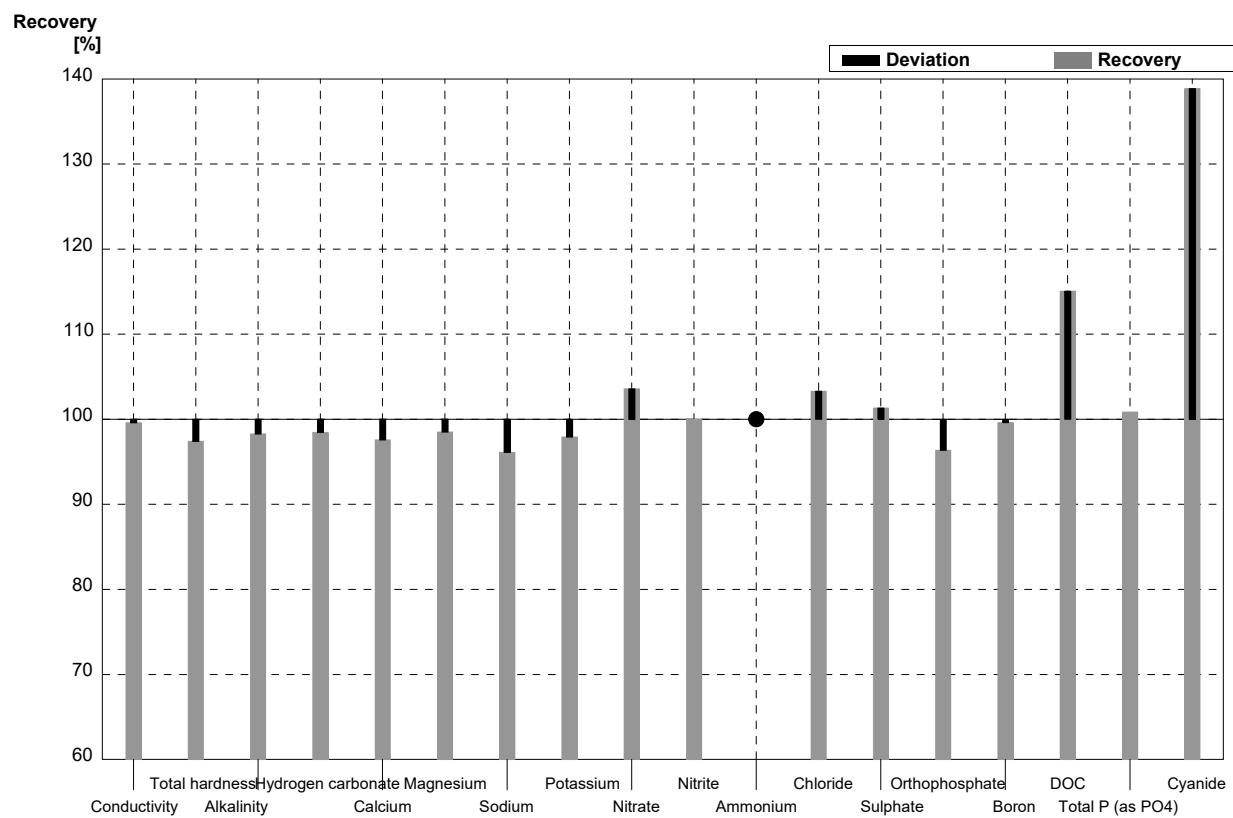
Laboratory AB

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	551	10	µS/cm	100%
Total hardness	2,27	0,01	2,33	0,23	mmol/l	103%
Alkalinity	1,25	0,01	1,23	0,15	mmol/l	98%
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	70,3	7,1	mg/l	101%
Magnesium	13,2	0,1	13,9	1,4	mg/l	105%
Sodium	11,4	0,2	10,9	1,1	mg/l	96%
Potassium	1,88	0,05	1,88	0,19	mg/l	100%
Nitrate	73,1	0,4	72,4	7,3	mg/l	99%
Nitrite	0,071	0,002	0,071	0,007	mg/l	100%
Ammonium	0,075	0,005	0,070	0,007	mg/l	93%
Chloride	57,2	0,3	56,2	5,7	mg/l	98%
Sulphate	50,4	0,3	49,3	5,0	mg/l	98%
Orthophosphate	<0,009				mg/l	
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002	0,033	0,005	mg/l	103%



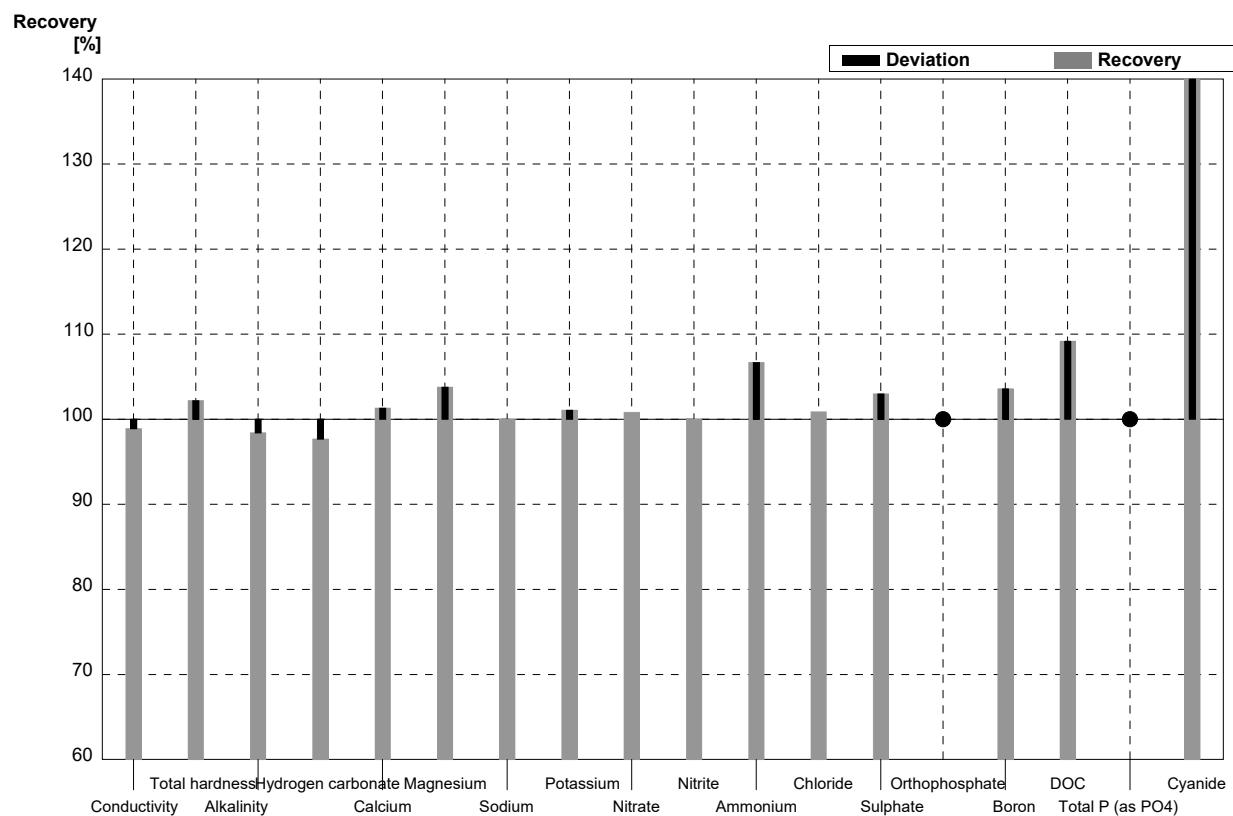
Sample N148A
Laboratory AC

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	485	19	µS/cm	100%
Total hardness	1,55	0,02	1,51	0,08	mmol/l	97%
Alkalinity	3,48	0,03	3,42	0,24	mmol/l	98%
Hydrogen carbonate	209	2	205,8	14,7	mg/l	98%
Calcium	49,7	0,6	48,5	2,3	mg/l	98%
Magnesium	7,41	0,07	7,3	0,5	mg/l	99%
Sodium	38,6	0,4	37,1	1,9	mg/l	96%
Potassium	7,66	0,05	7,5	0,3	mg/l	98%
Nitrate	36,4	0,2	37,7	4,6	mg/l	104%
Nitrite	0,036	0,001	0,036	0,005	mg/l	100%
Ammonium	<0,01		<0,010		mg/l	•
Chloride	21,1	0,1	21,8	1,9	mg/l	103%
Sulphate	14,9	0,1	15,1	1,5	mg/l	101%
Orthophosphate	0,055	0,003	0,053	0,007	mg/l	96%
Boron	0,052	0,001	0,0518	0,0072	mg/l	100%
DOC	3,65	0,05	4,2	0,8	mg/l	115%
Total P (as PO ₄)	0,118	0,003	0,119	0,017	mg/l	101%
Cyanide	0,072	0,002	0,1		mg/l	139%



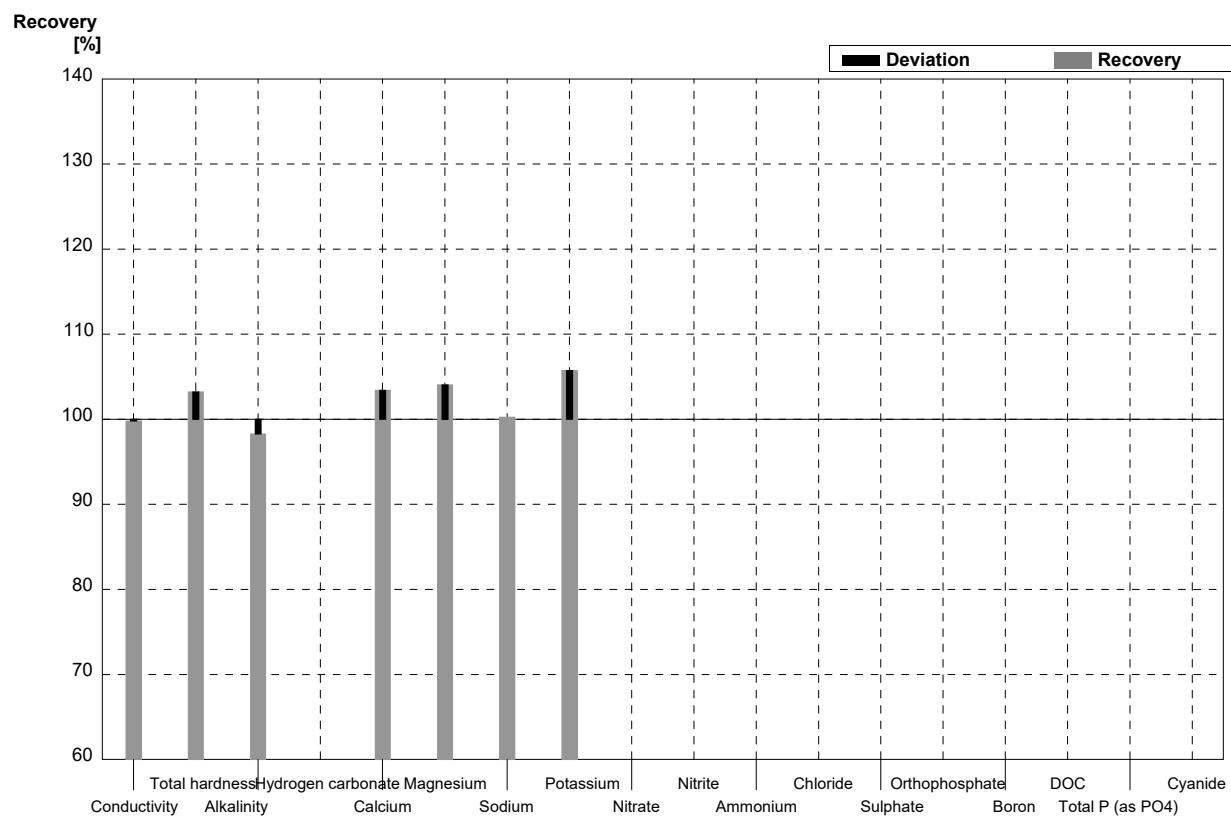
Sample N148B
Laboratory AC

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	545	22	µS/cm	99%
Total hardness	2,27	0,01	2,32	0,12	mmol/l	102%
Alkalinity	1,25	0,01	1,23	0,10	mmol/l	98%
Hydrogen carbonate	73,4	0,9	71,7	6,3	mg/l	98%
Calcium	69,3	0,4	70,2	3,3	mg/l	101%
Magnesium	13,2	0,1	13,7	0,9	mg/l	104%
Sodium	11,4	0,2	11,4	0,6	mg/l	100%
Potassium	1,88	0,05	1,9	0,1	mg/l	101%
Nitrate	73,1	0,4	73,7	9,0	mg/l	101%
Nitrite	0,071	0,002	0,071	0,007	mg/l	100%
Ammonium	0,075	0,005	0,080	0,014	mg/l	107%
Chloride	57,2	0,3	57,7	4,5	mg/l	101%
Sulphate	50,4	0,3	51,9	4,8	mg/l	103%
Orthophosphate	<0,009		<0,010		mg/l	•
Boron	0,112	0,001	0,116	0,015	mg/l	104%
DOC	4,58	0,05	5,0	1	mg/l	109%
Total P (as PO ₄)	<0,009		<0,010		mg/l	•
Cyanide	0,032	0,002	0,05		mg/l	156%



Sample N148A
Laboratory AD

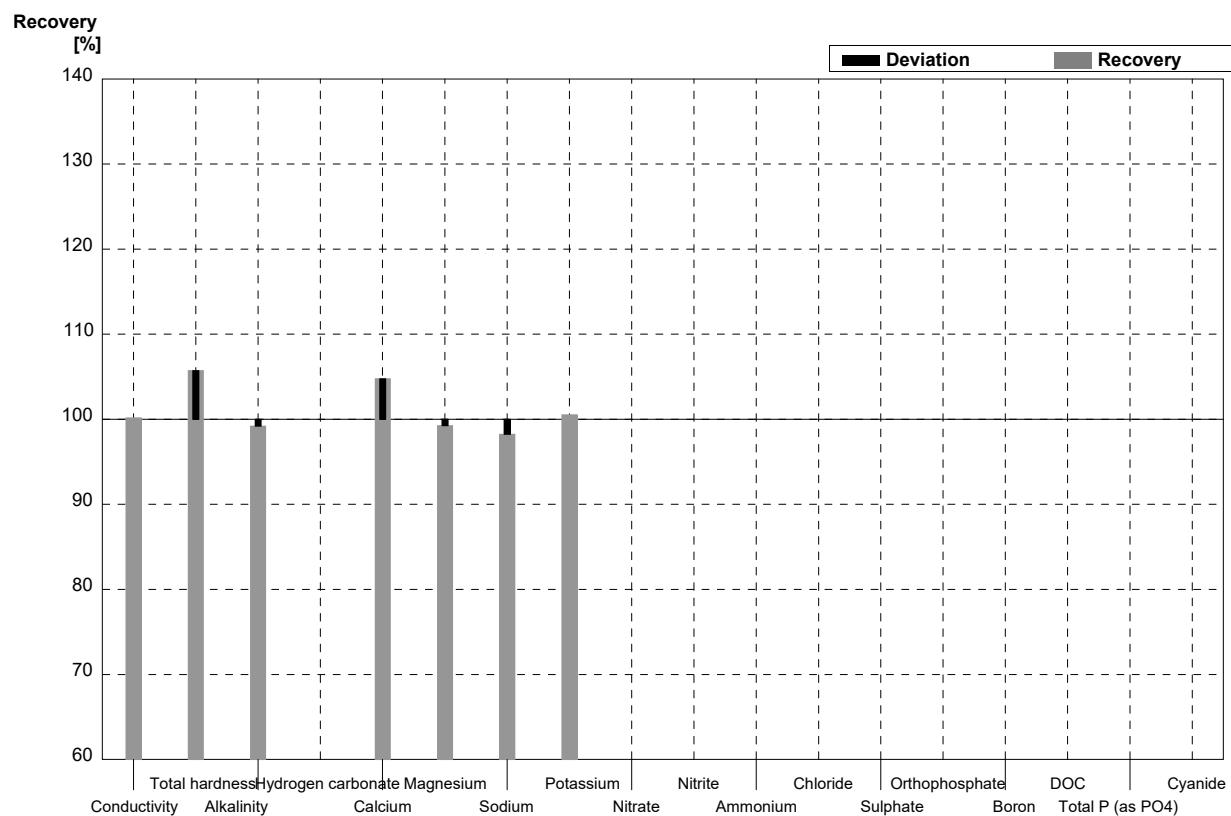
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	486	9,7	µS/cm	100%
Total hardness	1,55	0,02	1,6		mmol/l	103%
Alkalinity	3,48	0,03	3,42		mmol/l	98%
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	51,4	7,71	mg/l	103%
Magnesium	7,41	0,07	7,71	0,93	mg/l	104%
Sodium	38,6	0,4	38,7	3,5	mg/l	100%
Potassium	7,66	0,05	8,10	1,22	mg/l	106%
Nitrate	36,4	0,2			mg/l	
Nitrite	0,036	0,001			mg/l	
Ammonium	<0,01				mg/l	
Chloride	21,1	0,1			mg/l	
Sulphate	14,9	0,1			mg/l	
Orthophosphate	0,055	0,003			mg/l	
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



Sample N148B

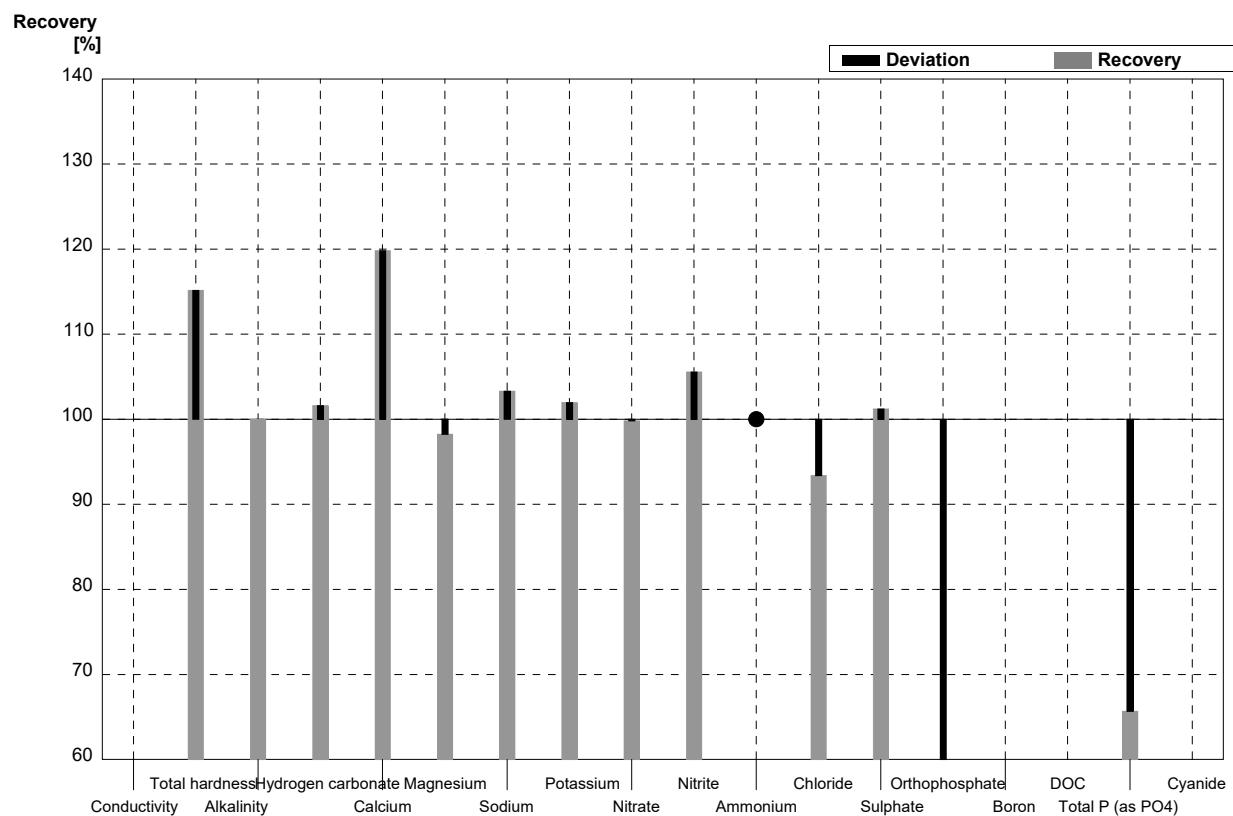
Laboratory AD

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	552	11,0	µS/cm	100%
Total hardness	2,27	0,01	2,4		mmol/l	106%
Alkalinity	1,25	0,01	1,24		mmol/l	99%
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	72,6	10,9	mg/l	105%
Magnesium	13,2	0,1	13,1	1,96	mg/l	99%
Sodium	11,4	0,2	11,2	1,01	mg/l	98%
Potassium	1,88	0,05	1,89	0,23	mg/l	101%
Nitrate	73,1	0,4			mg/l	
Nitrite	0,071	0,002			mg/l	
Ammonium	0,075	0,005			mg/l	
Chloride	57,2	0,3			mg/l	
Sulphate	50,4	0,3			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory AE

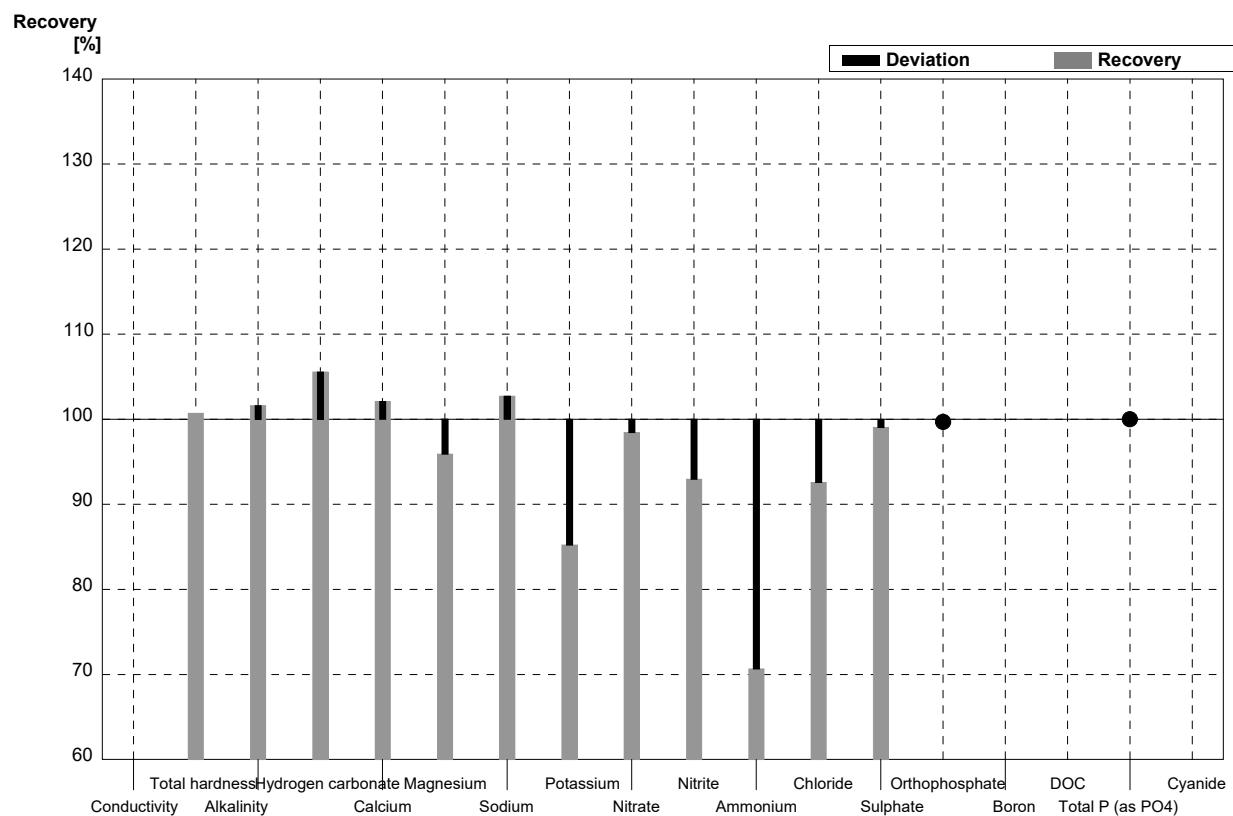
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2			µS/cm	
Total hardness	1,55	0,02	1,785	0,141	mmol/l	115%
Alkalinity	3,48	0,03	3,48	0,28	mmol/l	100%
Hydrogen carbonate	209	2	212,34	17,62	mg/l	102%
Calcium	49,7	0,6	59,55	3,39	mg/l	120%
Magnesium	7,41	0,07	7,28	0,40	mg/l	98%
Sodium	38,6	0,4	39,88	4,25	mg/l	103%
Potassium	7,66	0,05	7,81	0,74	mg/l	102%
Nitrate	36,4	0,2	36,33	1,49	mg/l	100%
Nitrite	0,036	0,001	0,038	0,003	mg/l	106%
Ammonium	<0,01		0	0	mg/l	•
Chloride	21,1	0,1	19,706	0,83	mg/l	93%
Sulphate	14,9	0,1	15,08	0,44	mg/l	101%
Orthophosphate	0,055	0,003	0,015	0,001	mg/l	27%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003	0,0775	0,016	mg/l	66%
Cyanide	0,072	0,002			mg/l	



Sample N148B

Laboratory AE

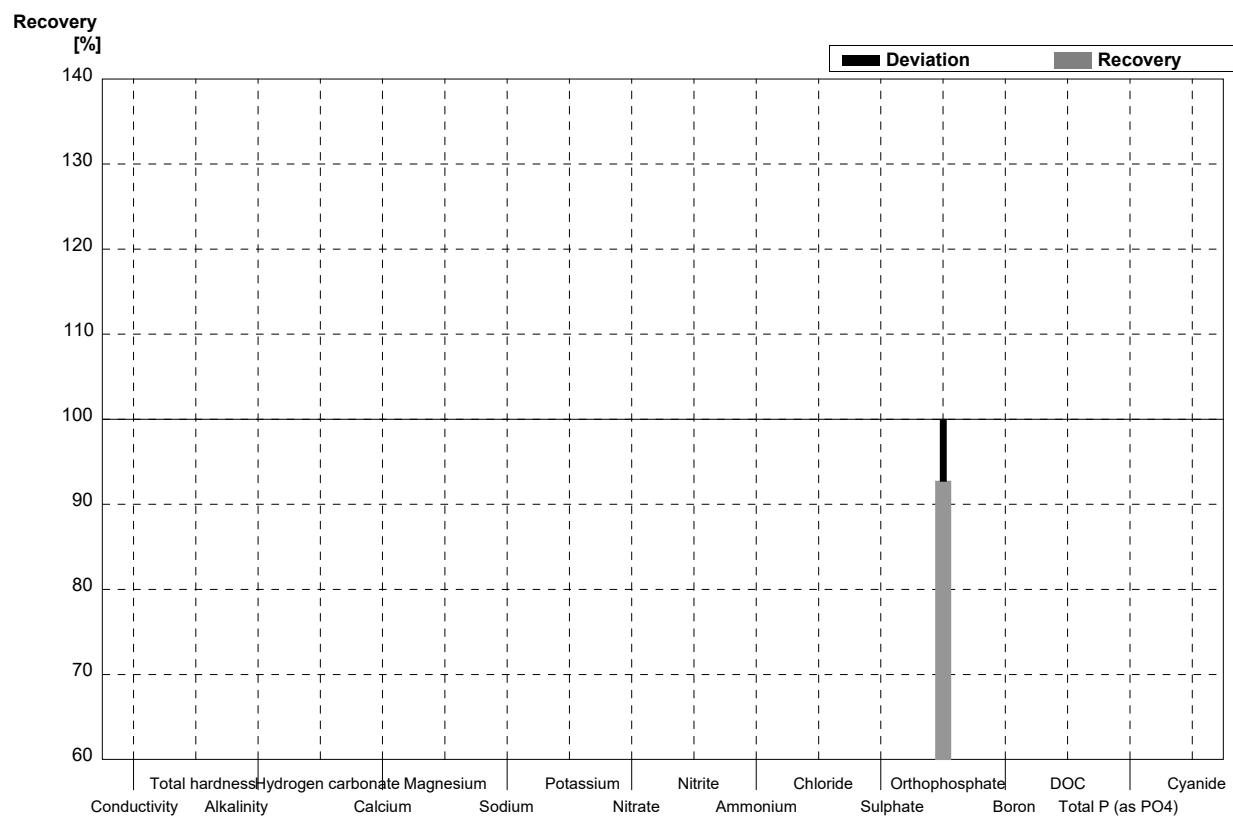
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2			µS/cm	
Total hardness	2,27	0,01	2,286	0,181	mmol/l	101%
Alkalinity	1,25	0,01	1,27	0,11	mmol/l	102%
Hydrogen carbonate	73,4	0,9	77,49	6,43	mg/l	106%
Calcium	69,3	0,4	70,76	4,03	mg/l	102%
Magnesium	13,2	0,1	12,66	0,70	mg/l	96%
Sodium	11,4	0,2	11,71	1,24	mg/l	103%
Potassium	1,88	0,05	1,602	0,15	mg/l	85%
Nitrate	73,1	0,4	71,97	2,95	mg/l	98%
Nitrite	0,071	0,002	0,066	0,005	mg/l	93%
Ammonium	0,075	0,005	0,053	0,006	mg/l	71%
Chloride	57,2	0,3	52,95	2,22	mg/l	93%
Sulphate	50,4	0,3	49,92	1,35	mg/l	99%
Orthophosphate	<0,009		0	0	mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009		0	0	mg/l	•
Cyanide	0,032	0,002			mg/l	



Sample N148A

Laboratory AF

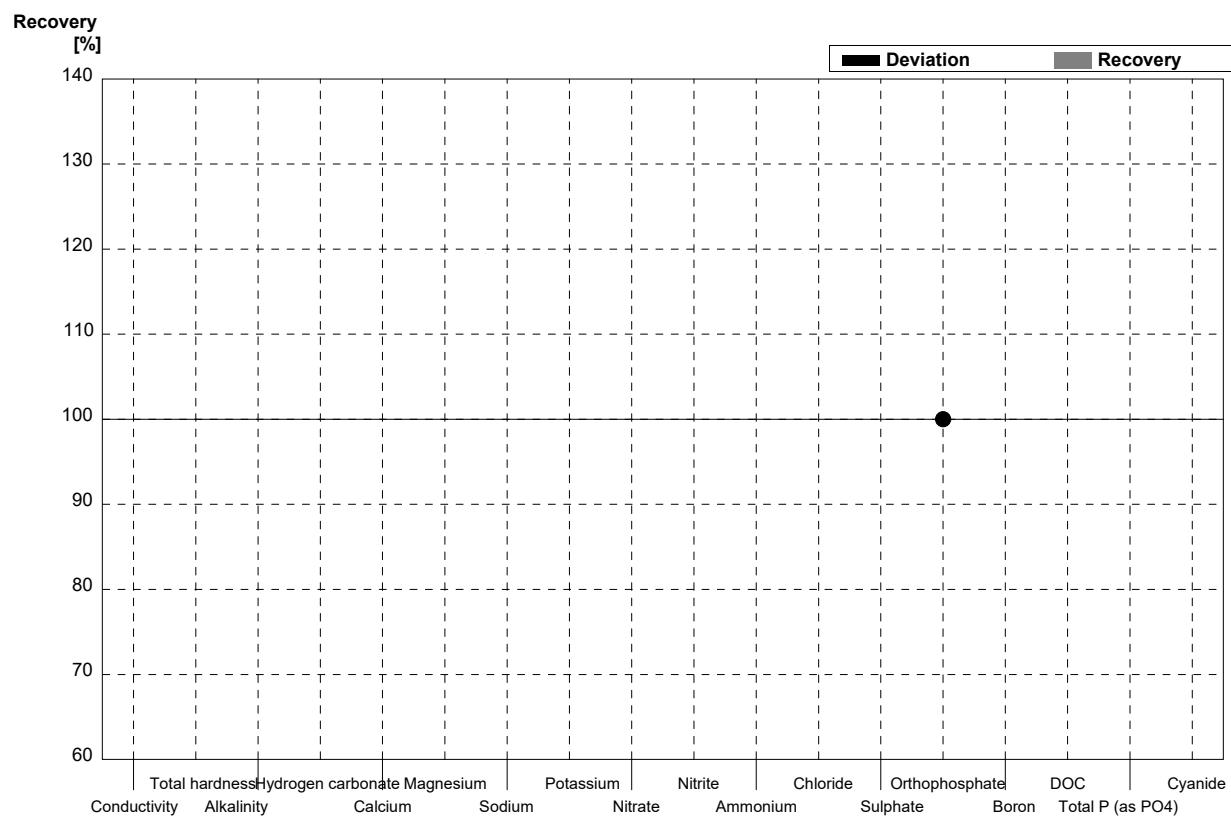
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2			µS/cm	
Total hardness	1,55	0,02			mmol/l	
Alkalinity	3,48	0,03			mmol/l	
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6			mg/l	
Magnesium	7,41	0,07			mg/l	
Sodium	38,6	0,4			mg/l	
Potassium	7,66	0,05			mg/l	
Nitrate	36,4	0,2			mg/l	
Nitrite	0,036	0,001			mg/l	
Ammonium	<0,01				mg/l	
Chloride	21,1	0,1			mg/l	
Sulphate	14,9	0,1			mg/l	
Orthophosphate	0,055	0,003	0,051	0,004	mg/l	93%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



Sample N148B

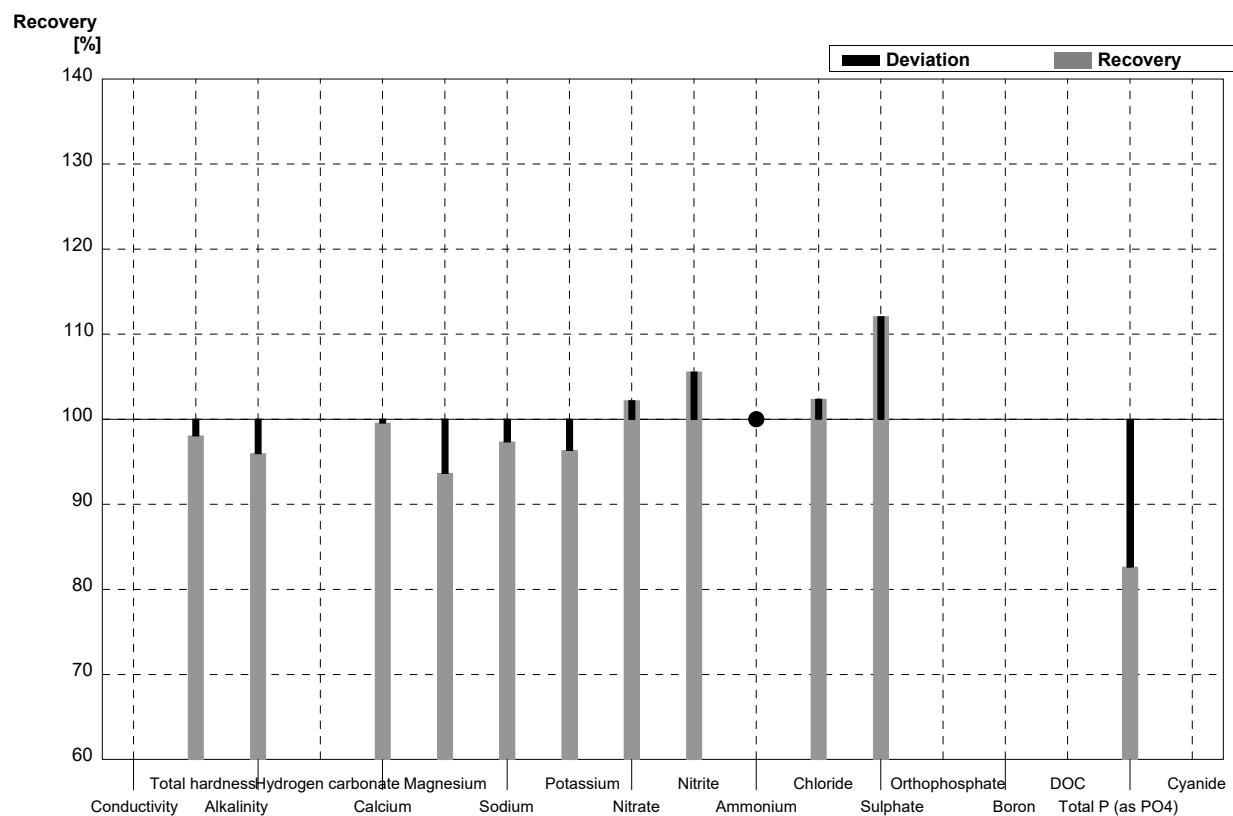
Laboratory AF

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2			µS/cm	
Total hardness	2,27	0,01			mmol/l	
Alkalinity	1,25	0,01			mmol/l	
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4			mg/l	
Magnesium	13,2	0,1			mg/l	
Sodium	11,4	0,2			mg/l	
Potassium	1,88	0,05			mg/l	
Nitrate	73,1	0,4			mg/l	
Nitrite	0,071	0,002			mg/l	
Ammonium	0,075	0,005			mg/l	
Chloride	57,2	0,3			mg/l	
Sulphate	50,4	0,3			mg/l	
Orthophosphate	<0,009		<0,010		mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



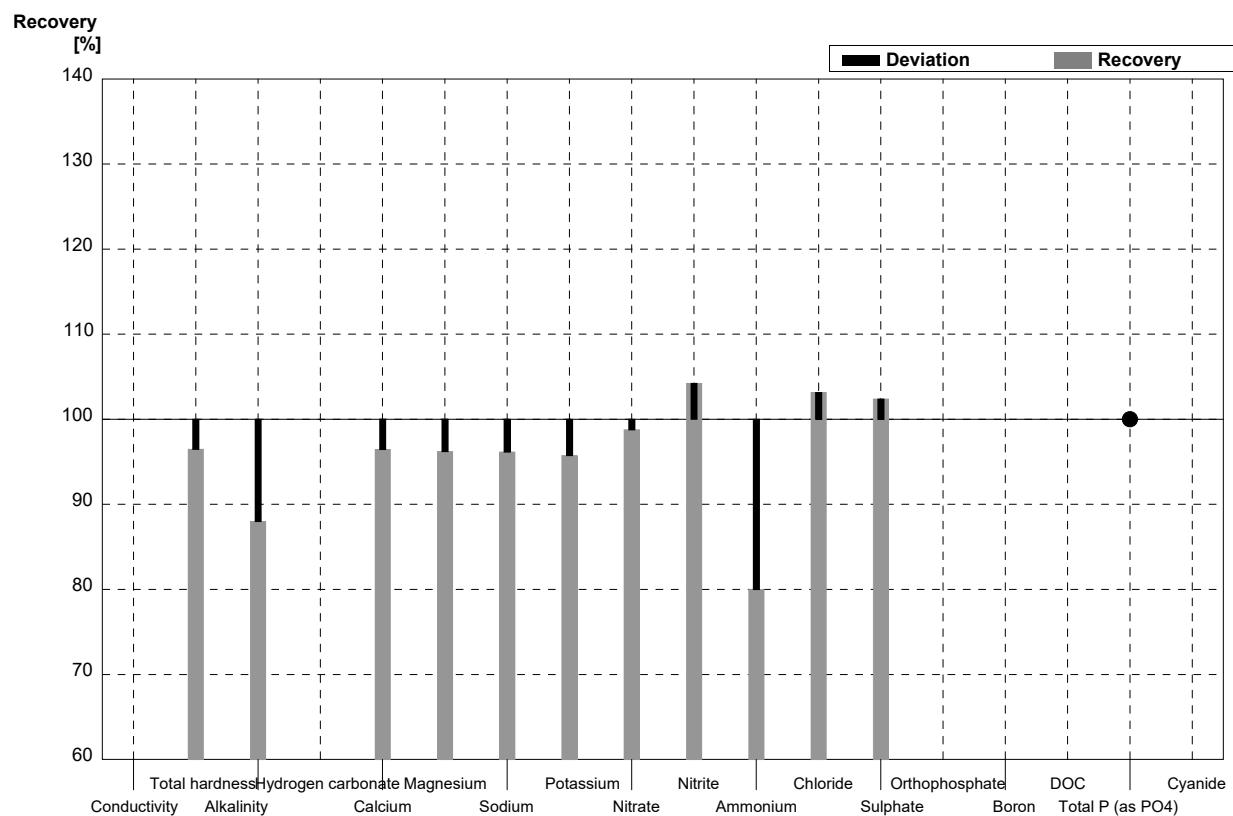
Sample N148A
Laboratory AG

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2			µS/cm	
Total hardness	1,55	0,02	1,52	0,075	mmol/l	98%
Alkalinity	3,48	0,03	3,34	0,13	mmol/l	96%
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	49,48	2,22	mg/l	100%
Magnesium	7,41	0,07	6,94	0,42	mg/l	94%
Sodium	38,6	0,4	37,57	1,39	mg/l	97%
Potassium	7,66	0,05	7,38	0,28	mg/l	96%
Nitrate	36,4	0,2	37,2	1,22	mg/l	102%
Nitrite	0,036	0,001	0,038	0,00067	mg/l	106%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	21,1	0,1	21,6	0,40	mg/l	102%
Sulphate	14,9	0,1	16,7	0,83	mg/l	112%
Orthophosphate	0,055	0,003			mg/l	
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003	0,0975	0,0022	mg/l	83%
Cyanide	0,072	0,002			mg/l	



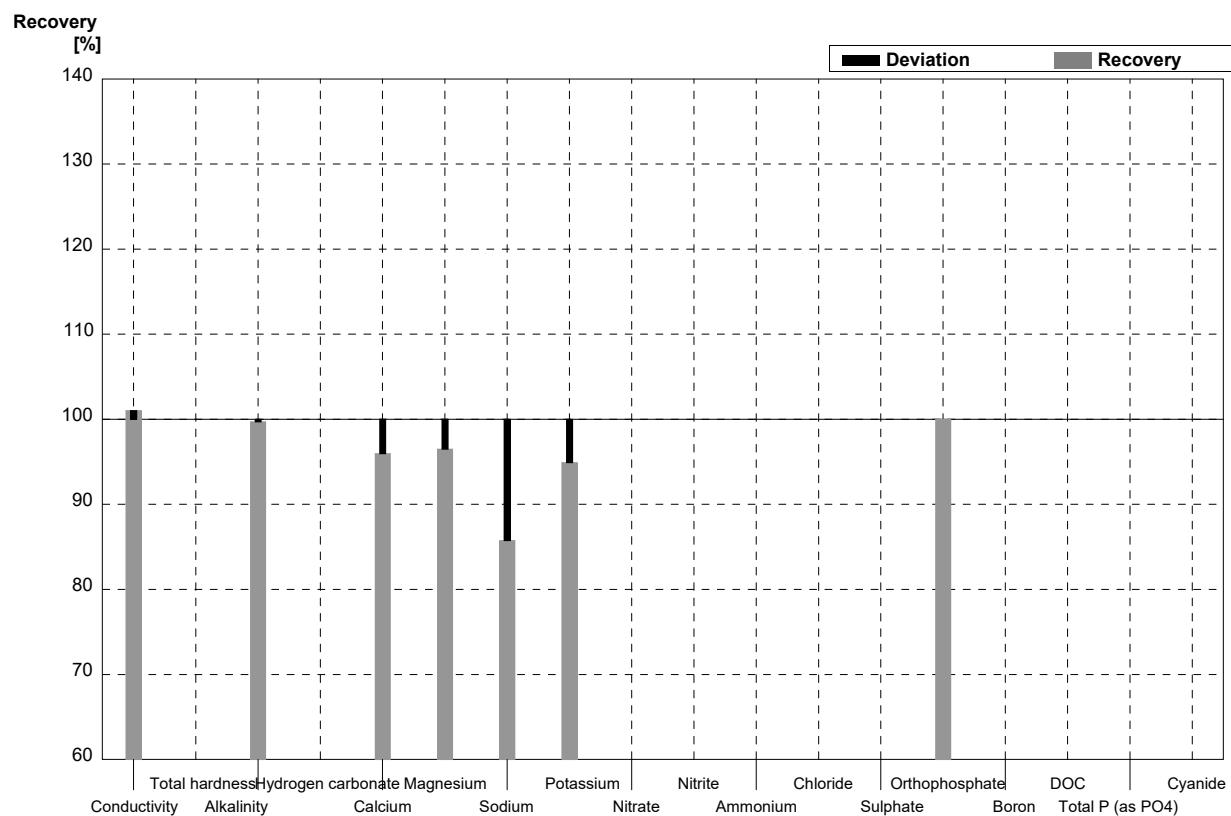
Sample N148B
Laboratory AG

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2			µS/cm	
Total hardness	2,27	0,01	2,19	0,11	mmol/l	96%
Alkalinity	1,25	0,01	1,1	0,043	mmol/l	88%
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	66,85	3,00	mg/l	96%
Magnesium	13,2	0,1	12,70	0,78	mg/l	96%
Sodium	11,4	0,2	10,96	0,41	mg/l	96%
Potassium	1,88	0,05	1,80	0,068	mg/l	96%
Nitrate	73,1	0,4	72,2	2,38	mg/l	99%
Nitrite	0,071	0,002	0,074	0,0013	mg/l	104%
Ammonium	0,075	0,005	0,06	0,0022	mg/l	80%
Chloride	57,2	0,3	59	1,09	mg/l	103%
Sulphate	50,4	0,3	51,6	2,56	mg/l	102%
Orthophosphate	<0,009				mg/l	
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009		<0,006		mg/l	•
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory AH

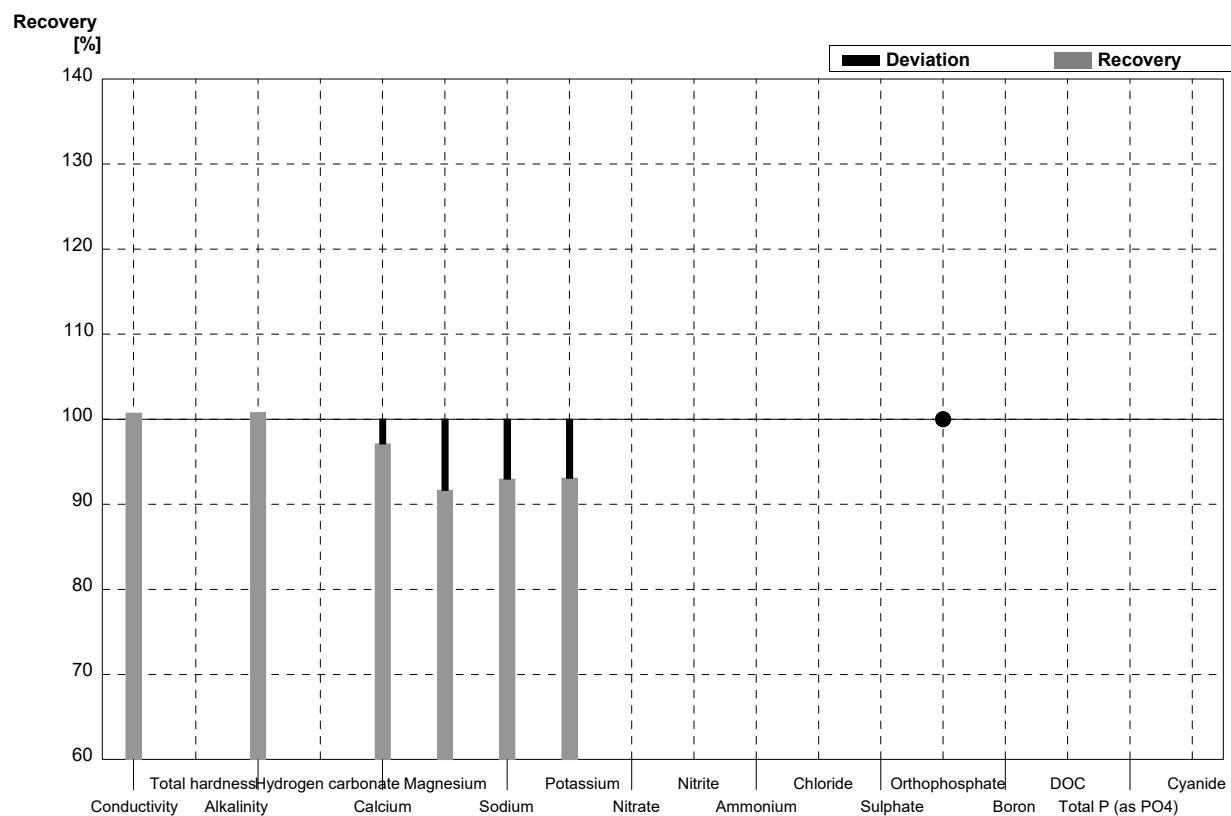
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	492	5	µS/cm	101%
Total hardness	1,55	0,02			mmol/l	
Alkalinity	3,48	0,03	3,47	0,02	mmol/l	100%
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	47,7	0,2	mg/l	96%
Magnesium	7,41	0,07	7,15	0,26	mg/l	96%
Sodium	38,6	0,4	33,1	0,3	mg/l	86%
Potassium	7,66	0,05	7,27	0,11	mg/l	95%
Nitrate	36,4	0,2			mg/l	
Nitrite	0,036	0,001			mg/l	
Ammonium	<0,01				mg/l	
Chloride	21,1	0,1			mg/l	
Sulphate	14,9	0,1			mg/l	
Orthophosphate	0,055	0,003	0,055	0,001	mg/l	100%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



Sample N148B

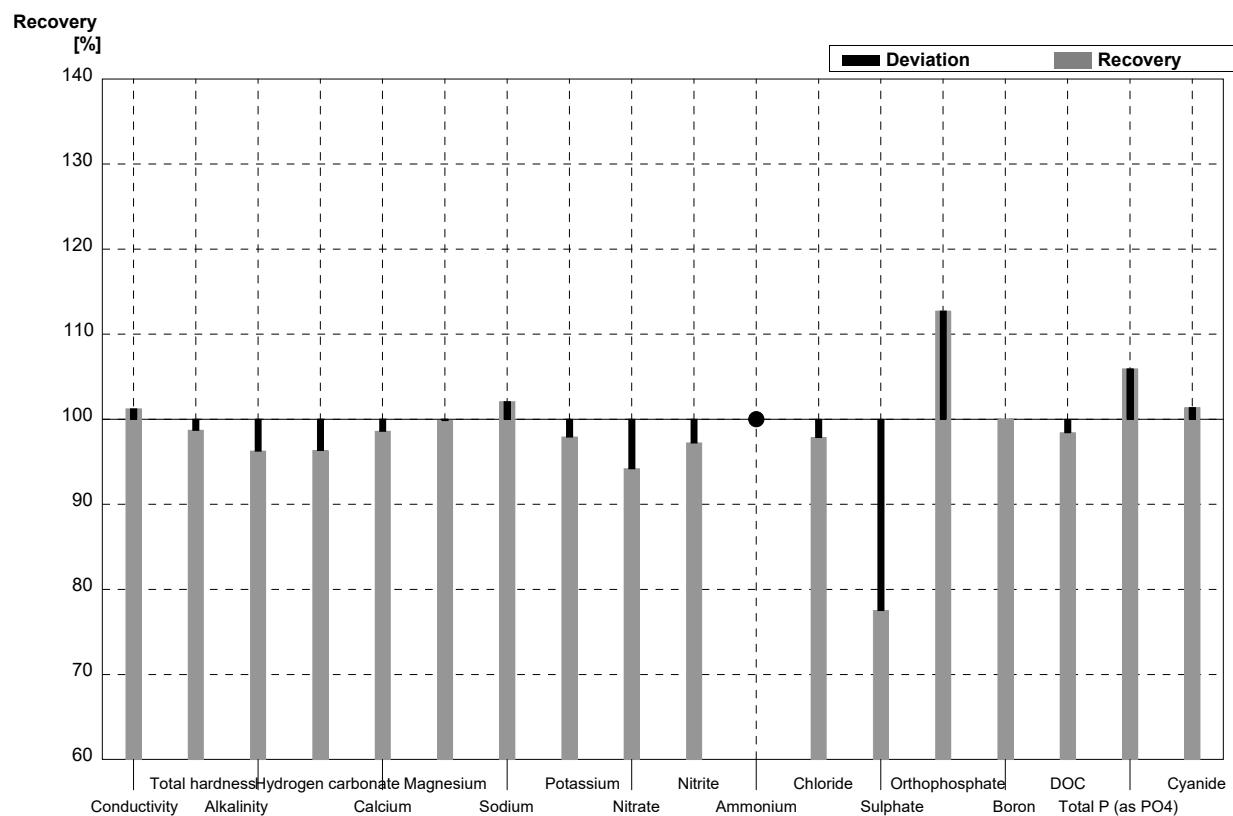
Laboratory AH

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	555	4	µS/cm	101%
Total hardness	2,27	0,01			mmol/l	
Alkalinity	1,25	0,01	1,26	0,02	mmol/l	101%
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	67,3	0,9	mg/l	97%
Magnesium	13,2	0,1	12,1	0,1	mg/l	92%
Sodium	11,4	0,2	10,6	0,2	mg/l	93%
Potassium	1,88	0,05	1,75	0,12	mg/l	93%
Nitrate	73,1	0,4			mg/l	
Nitrite	0,071	0,002			mg/l	
Ammonium	0,075	0,005			mg/l	
Chloride	57,2	0,3			mg/l	
Sulphate	50,4	0,3			mg/l	
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory Al

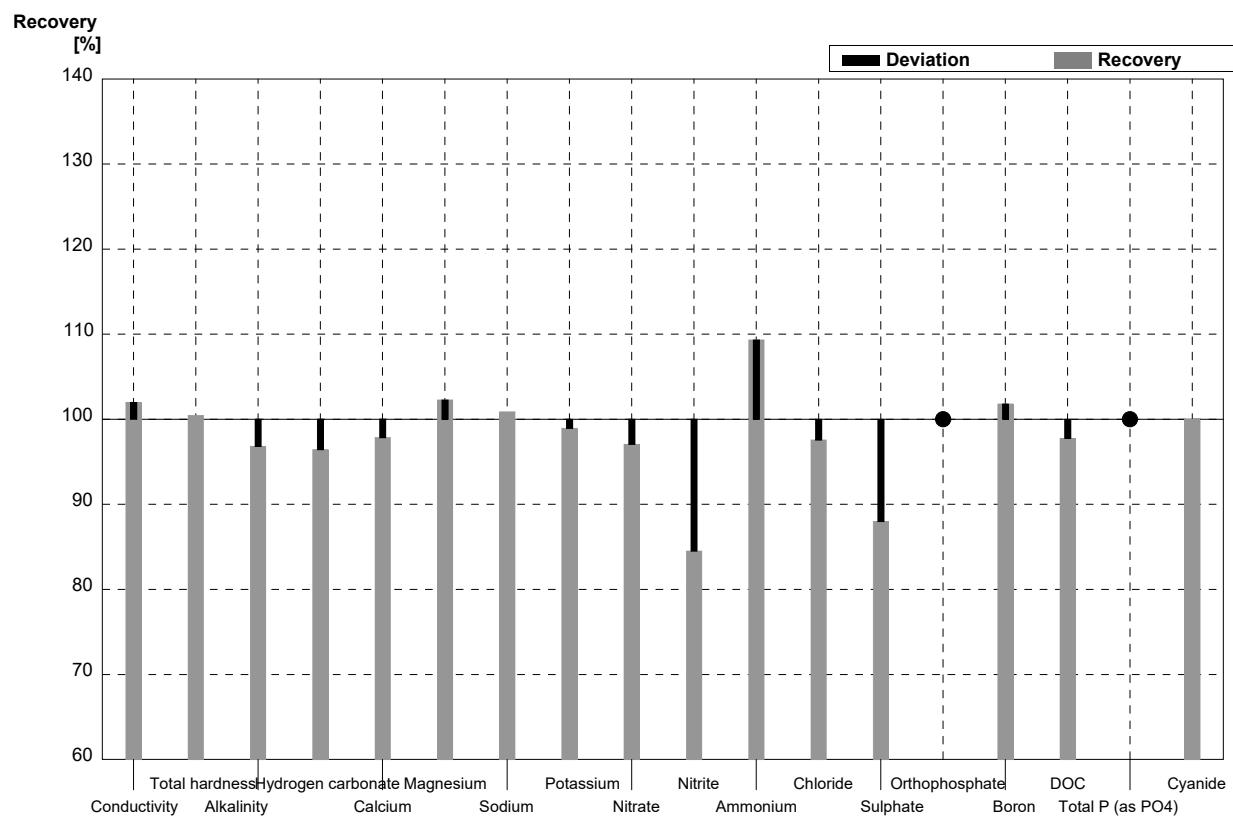
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	493	25	µS/cm	101%
Total hardness	1,55	0,02	1,53	0,15	mmol/l	99%
Alkalinity	3,48	0,03	3,35	0,030	mmol/l	96%
Hydrogen carbonate	209	2	201,356	20,0	mg/l	96%
Calcium	49,7	0,6	49,0	4,9	mg/l	99%
Magnesium	7,41	0,07	7,40	0,74	mg/l	100%
Sodium	38,6	0,4	39,4	4,0	mg/l	102%
Potassium	7,66	0,05	7,5	0,75	mg/l	98%
Nitrate	36,4	0,2	34,29	3,00	mg/l	94%
Nitrite	0,036	0,001	0,035	0,003	mg/l	97%
Ammonium	<0,01		<0,05	0,005	mg/l	•
Chloride	21,1	0,1	20,65	2,00	mg/l	98%
Sulphate	14,9	0,1	11,55	1,10	mg/l	78%
Orthophosphate	0,055	0,003	0,062	0,0060	mg/l	113%
Boron	0,052	0,001	0,052	0,005	mg/l	100%
DOC	3,65	0,05	3,593	0,15	mg/l	98%
Total P (as PO ₄)	0,118	0,003	0,125	0,013	mg/l	106%
Cyanide	0,072	0,002	0,073	0,007	mg/l	101%



Sample N148B

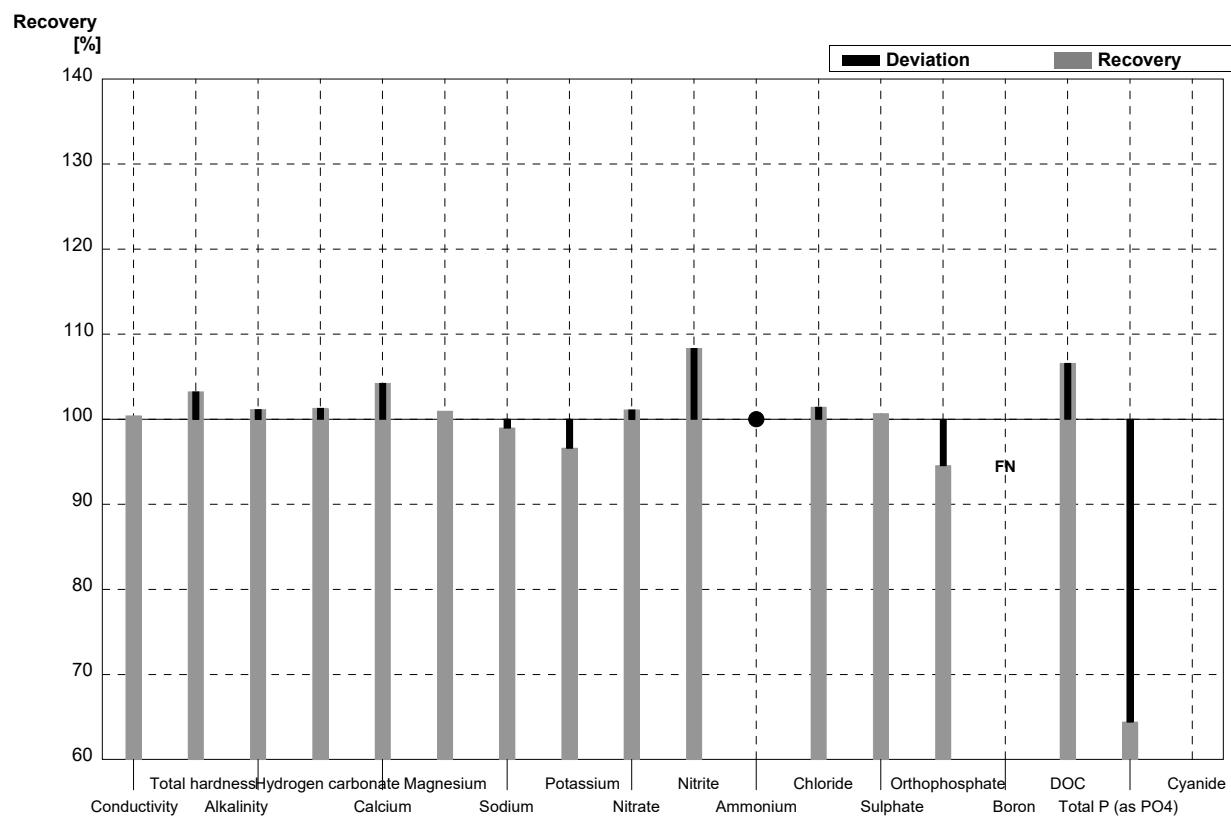
Laboratory Al

Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	551	2	562	28	$\mu\text{S}/\text{cm}$	102%
Total hardness	2,27	0,01	2,28	0,23	mmol/l	100%
Alkalinity	1,25	0,01	1,21	0,010	mmol/l	97%
Hydrogen carbonate	73,4	0,9	70,780	7,0	mg/l	96%
Calcium	69,3	0,4	67,8	6,8	mg/l	98%
Magnesium	13,2	0,1	13,5	1,3	mg/l	102%
Sodium	11,4	0,2	11,5	1,2	mg/l	101%
Potassium	1,88	0,05	1,86	0,19	mg/l	99%
Nitrate	73,1	0,4	70,95	7,0	mg/l	97%
Nitrite	0,071	0,002	0,060	0,006	mg/l	85%
Ammonium	0,075	0,005	0,082	0,008	mg/l	109%
Chloride	57,2	0,3	55,80	5,50	mg/l	98%
Sulphate	50,4	0,3	44,35	4,40	mg/l	88%
Orthophosphate	<0,009		<0,03	0,003	mg/l	•
Boron	0,112	0,001	0,114	0,011	mg/l	102%
DOC	4,58	0,05	4,477	0,22	mg/l	98%
Total P (as PO ₄)	<0,009		<0,009	0,013	mg/l	•
Cyanide	0,032	0,002	0,032	0,003	mg/l	100%



Sample N148A
Laboratory AJ

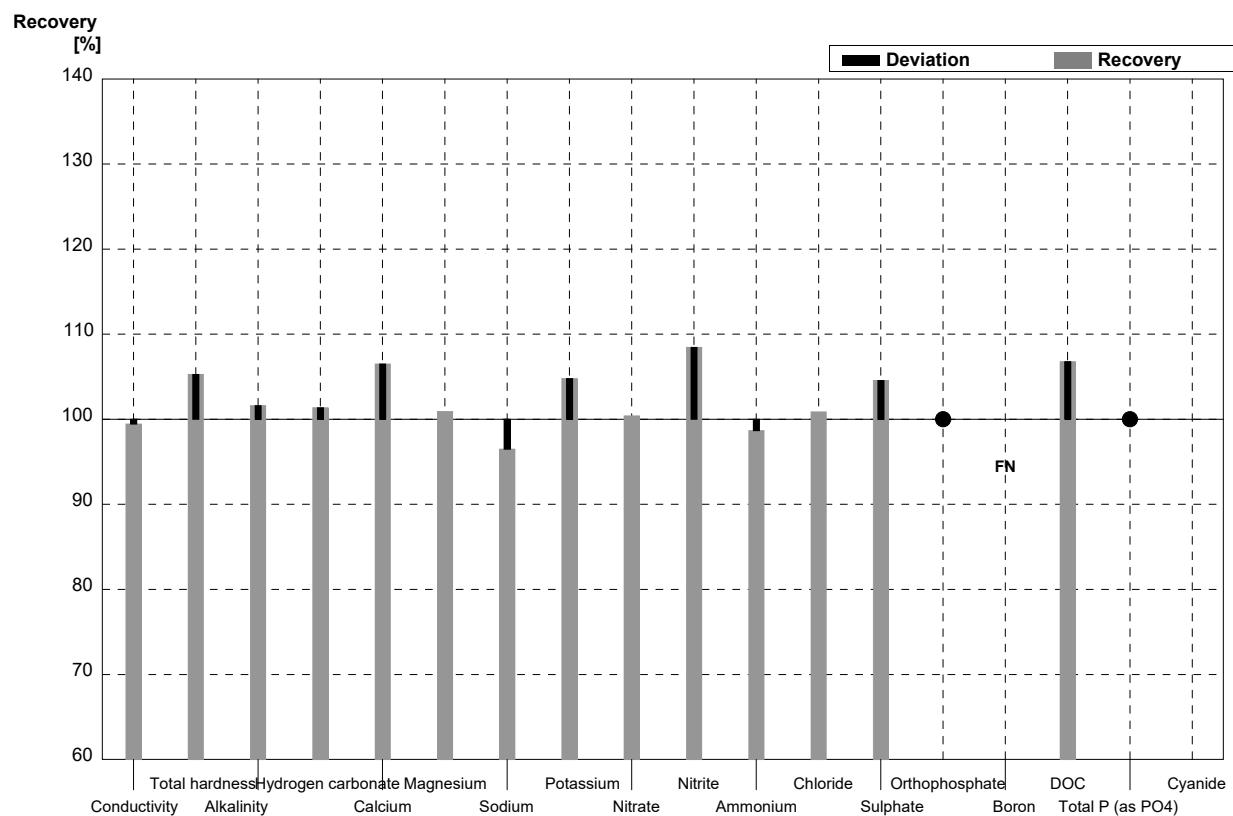
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	489		µS/cm	100%
Total hardness	1,55	0,02	1,6		mmol/l	103%
Alkalinity	3,48	0,03	3,52		mmol/l	101%
Hydrogen carbonate	209	2	211,7		mg/l	101%
Calcium	49,7	0,6	51,8	3,7	mg/l	104%
Magnesium	7,41	0,07	7,48	0,48	mg/l	101%
Sodium	38,6	0,4	38,2	0,8	mg/l	99%
Potassium	7,66	0,05	7,40	0,23	mg/l	97%
Nitrate	36,4	0,2	36,8	0,7	mg/l	101%
Nitrite	0,036	0,001	0,039	0,001	mg/l	108%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	21,1	0,1	21,4	0,4	mg/l	101%
Sulphate	14,9	0,1	15,0	1,3	mg/l	101%
Orthophosphate	0,055	0,003	0,052	0,001	mg/l	95%
Boron	0,052	0,001	<0,02		mg/l	FN
DOC	3,65	0,05	3,89		mg/l	107%
Total P (as PO ₄)	0,118	0,003	0,076		mg/l	64%
Cyanide	0,072	0,002			mg/l	



Sample N148B

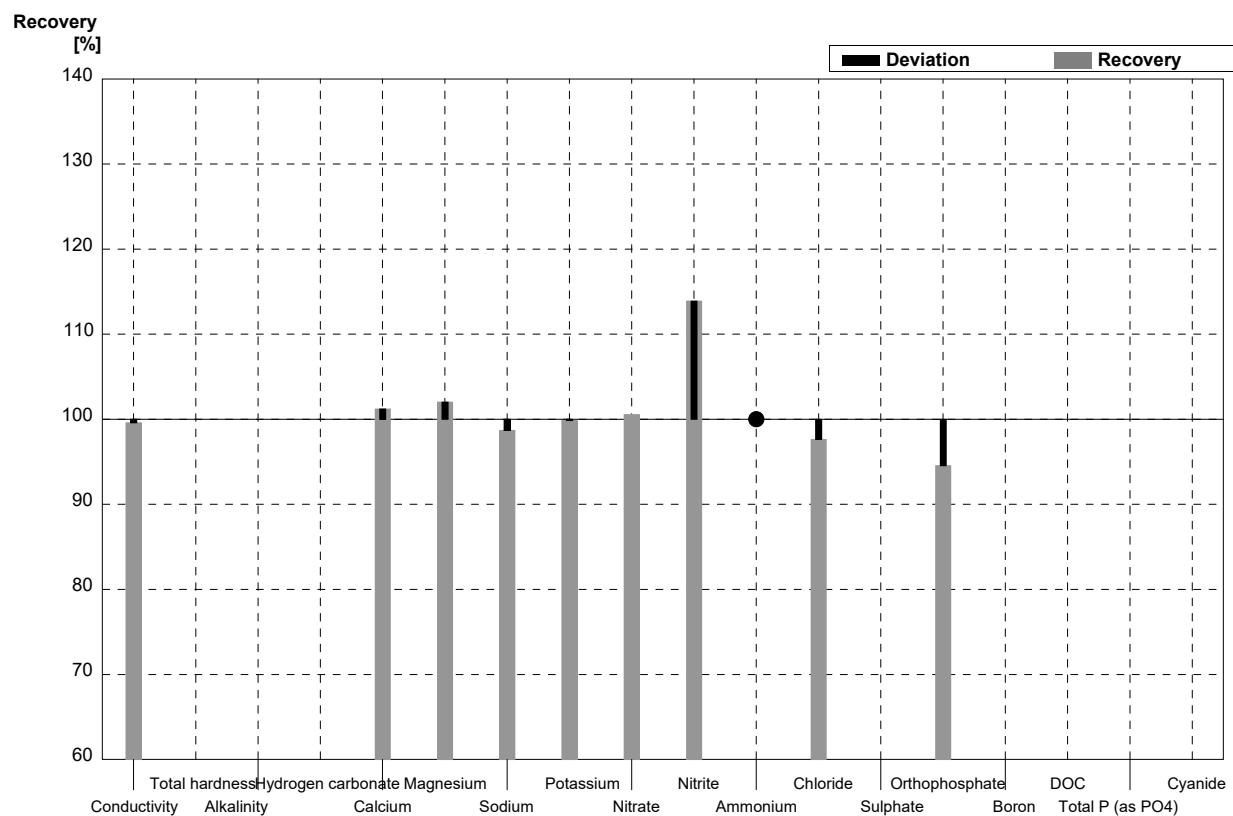
Laboratory AJ

Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	551	2	548		$\mu\text{S}/\text{cm}$	99%
Total hardness	2,27	0,01	2,39		mmol/l	105%
Alkalinity	1,25	0,01	1,27		mmol/l	102%
Hydrogen carbonate	73,4	0,9	74,4		mg/l	101%
Calcium	69,3	0,4	73,8	3,5	mg/l	106%
Magnesium	13,2	0,1	13,32	0,47	mg/l	101%
Sodium	11,4	0,2	11,0	0,8	mg/l	96%
Potassium	1,88	0,05	1,97	0,24	mg/l	105%
Nitrate	73,1	0,4	73,4	1,6	mg/l	100%
Nitrite	0,071	0,002	0,077	0,001	mg/l	108%
Ammonium	0,075	0,005	0,074	0,003	mg/l	99%
Chloride	57,2	0,3	57,7	1,6	mg/l	101%
Sulphate	50,4	0,3	52,7	2,7	mg/l	105%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,112	0,001	<0,02		mg/l	FN
DOC	4,58	0,05	4,89		mg/l	107%
Total P (as PO ₄)	<0,009		<0,002		mg/l	•
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory AK

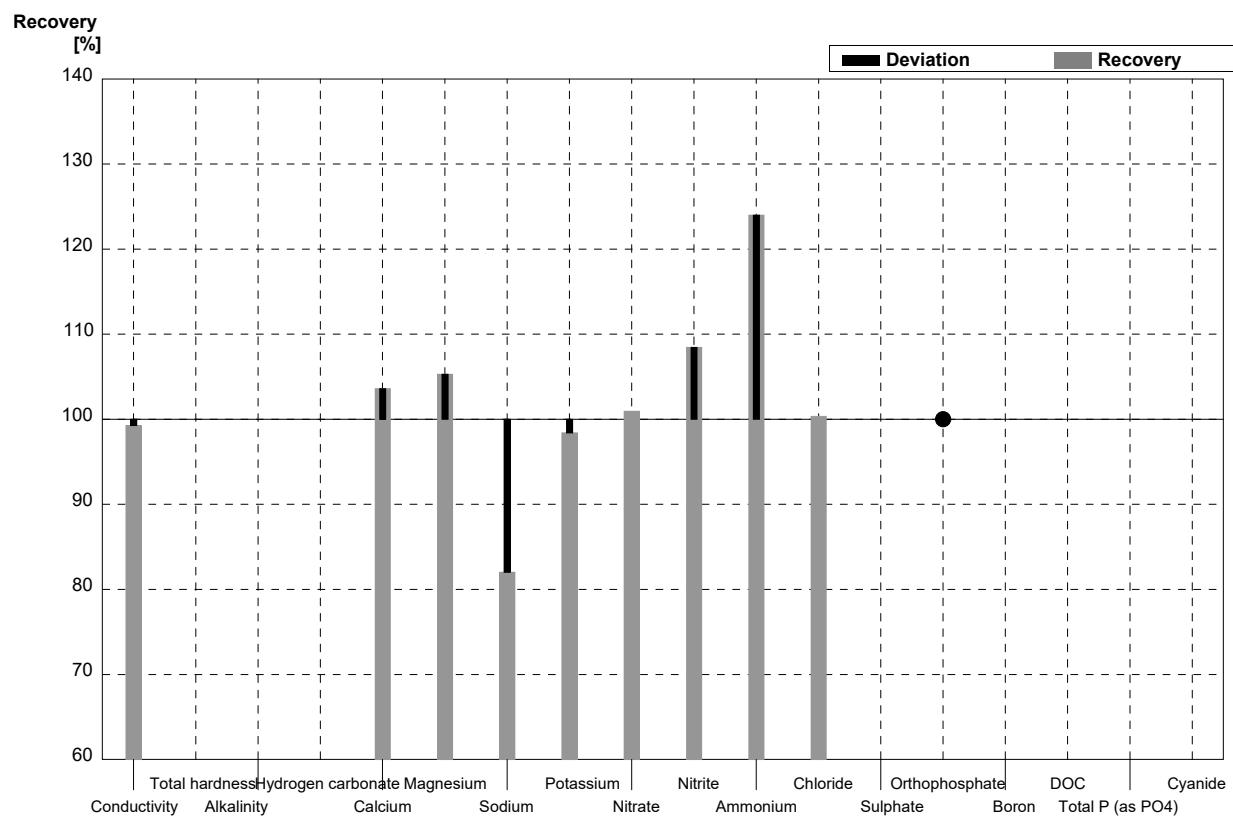
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	485	11,9	µS/cm	100%
Total hardness	1,55	0,02			mmol/l	
Alkalinity	3,48	0,03			mmol/l	
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	50,3		mg/l	101%
Magnesium	7,41	0,07	7,56		mg/l	102%
Sodium	38,6	0,4	38,1		mg/l	99%
Potassium	7,66	0,05	7,65		mg/l	100%
Nitrate	36,4	0,2	36,6	0,51	mg/l	101%
Nitrite	0,036	0,001	0,041	0,003	mg/l	114%
Ammonium	<0,01		<0,064		mg/l	•
Chloride	21,1	0,1	20,6		mg/l	98%
Sulphate	14,9	0,1			mg/l	
Orthophosphate	0,055	0,003	0,052	0,004	mg/l	95%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



Sample N148B

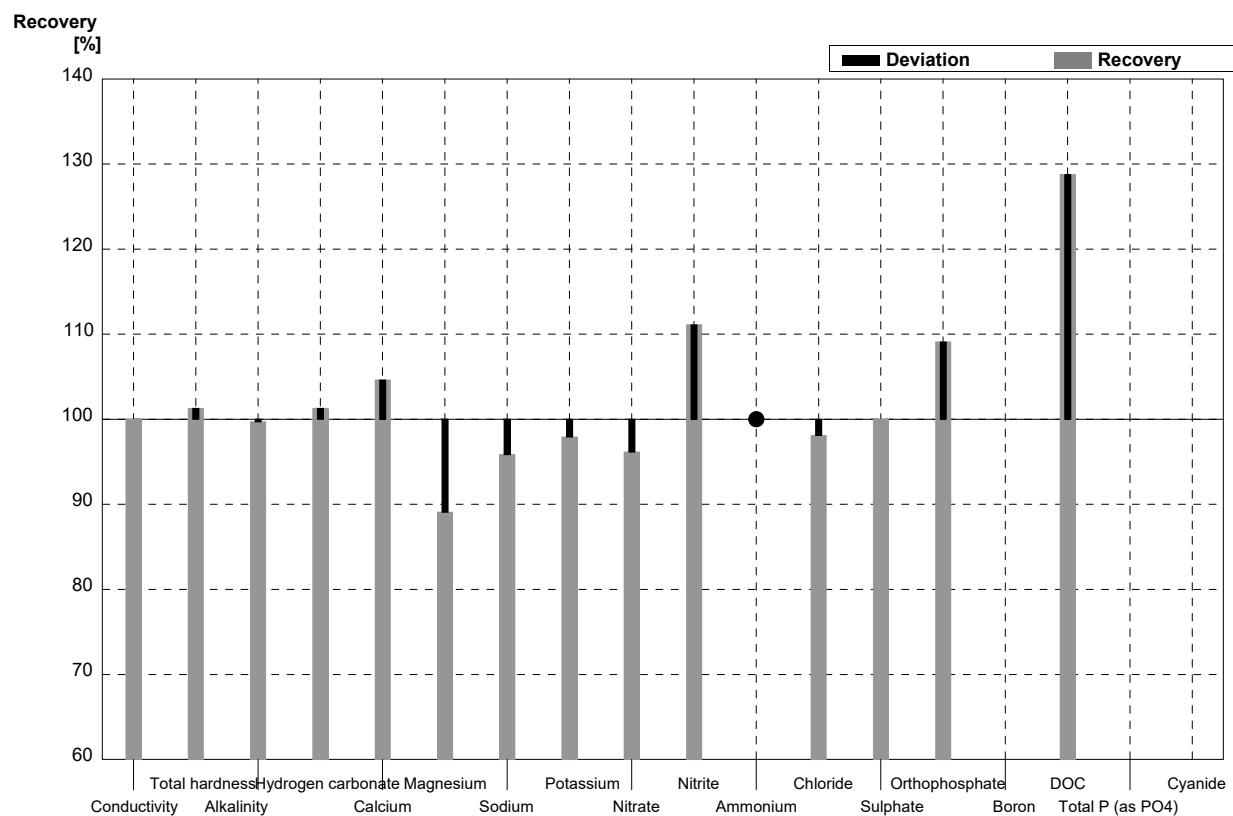
Laboratory AK

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	547	13,5	µS/cm	99%
Total hardness	2,27	0,01			mmol/l	
Alkalinity	1,25	0,01			mmol/l	
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	71,8		mg/l	104%
Magnesium	13,2	0,1	13,9		mg/l	105%
Sodium	11,4	0,2	9,35		mg/l	82%
Potassium	1,88	0,05	1,85		mg/l	98%
Nitrate	73,1	0,4	73,8	1,0	mg/l	101%
Nitrite	0,071	0,002	0,077	0,005	mg/l	108%
Ammonium	0,075	0,005	0,093	0,004	mg/l	124%
Chloride	57,2	0,3	57,4		mg/l	100%
Sulphate	50,4	0,3			mg/l	
Orthophosphate	<0,009		<0,031		mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory AL

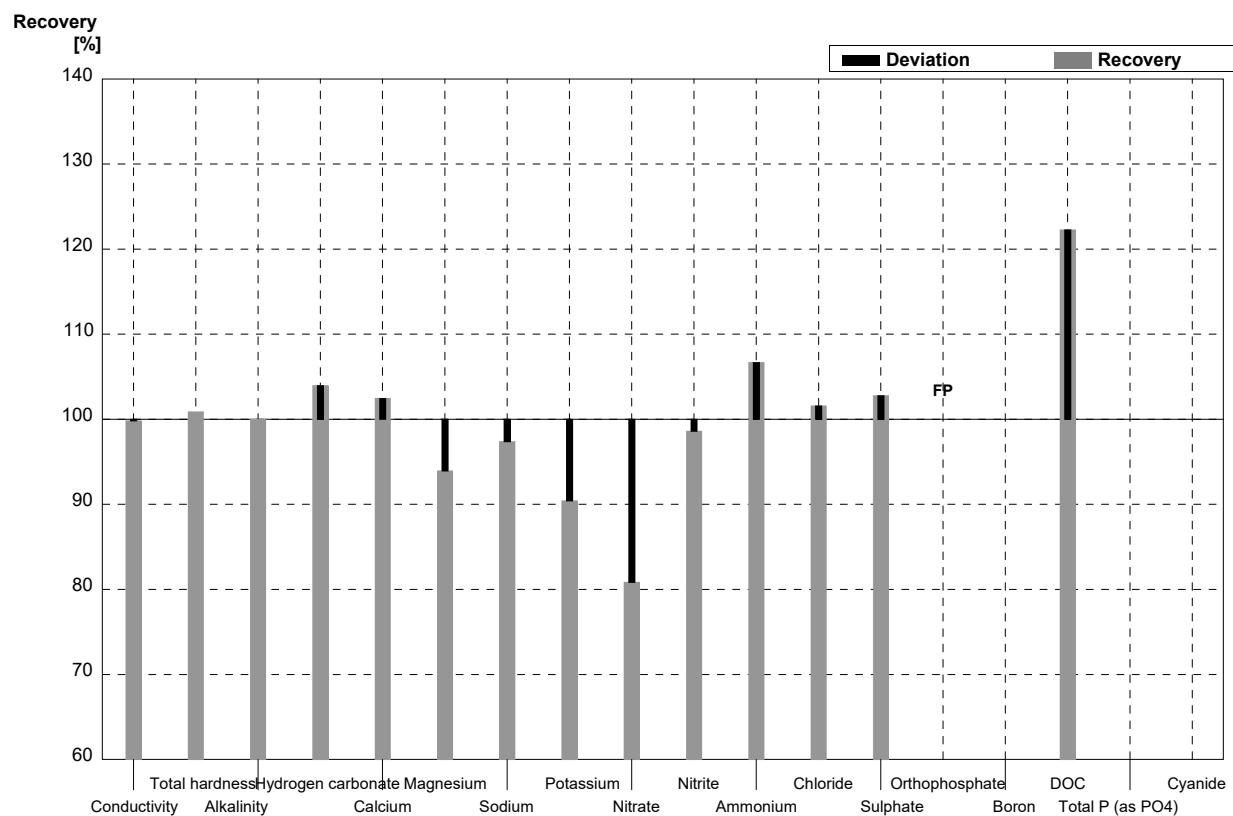
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	487		µS/cm	100%
Total hardness	1,55	0,02	1,57		mmol/l	101%
Alkalinity	3,48	0,03	3,47		mmol/l	100%
Hydrogen carbonate	209	2	211,7		mg/l	101%
Calcium	49,7	0,6	52,0		mg/l	105%
Magnesium	7,41	0,07	6,6		mg/l	89%
Sodium	38,6	0,4	37,0		mg/l	96%
Potassium	7,66	0,05	7,5		mg/l	98%
Nitrate	36,4	0,2	35,0		mg/l	96%
Nitrite	0,036	0,001	0,04		mg/l	111%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	21,1	0,1	20,7		mg/l	98%
Sulphate	14,9	0,1	14,9		mg/l	100%
Orthophosphate	0,055	0,003	0,06		mg/l	109%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05	4,7		mg/l	129%
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



Sample N148B

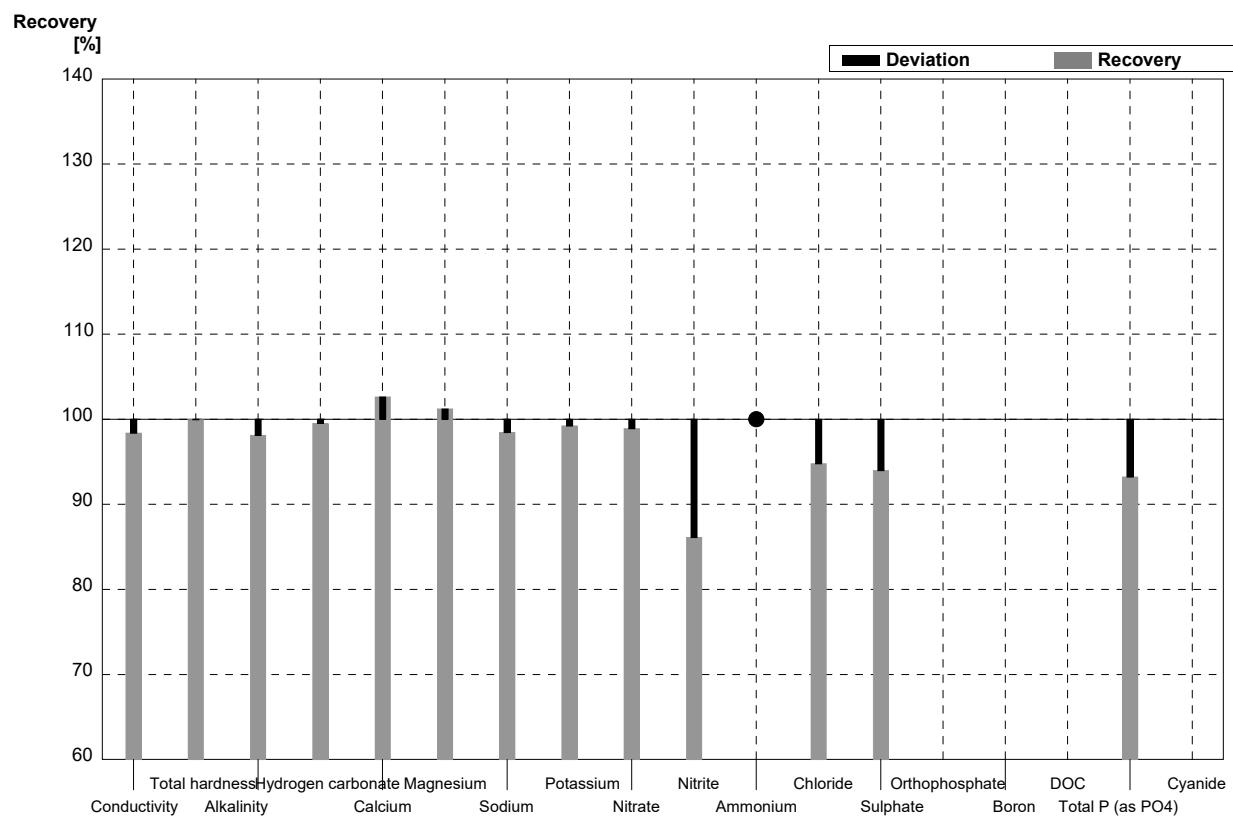
Laboratory AL

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	550		µS/cm	100%
Total hardness	2,27	0,01	2,29		mmol/l	101%
Alkalinity	1,25	0,01	1,25		mmol/l	100%
Hydrogen carbonate	73,4	0,9	76,3		mg/l	104%
Calcium	69,3	0,4	71,0		mg/l	102%
Magnesium	13,2	0,1	12,4		mg/l	94%
Sodium	11,4	0,2	11,1		mg/l	97%
Potassium	1,88	0,05	1,7		mg/l	90%
Nitrate	73,1	0,4	59,1		mg/l	81%
Nitrite	0,071	0,002	0,07		mg/l	99%
Ammonium	0,075	0,005	0,08		mg/l	107%
Chloride	57,2	0,3	58,1		mg/l	102%
Sulphate	50,4	0,3	51,8		mg/l	103%
Orthophosphate	<0,009		0,02		mg/l	FP
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05	5,6		mg/l	122%
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory AM

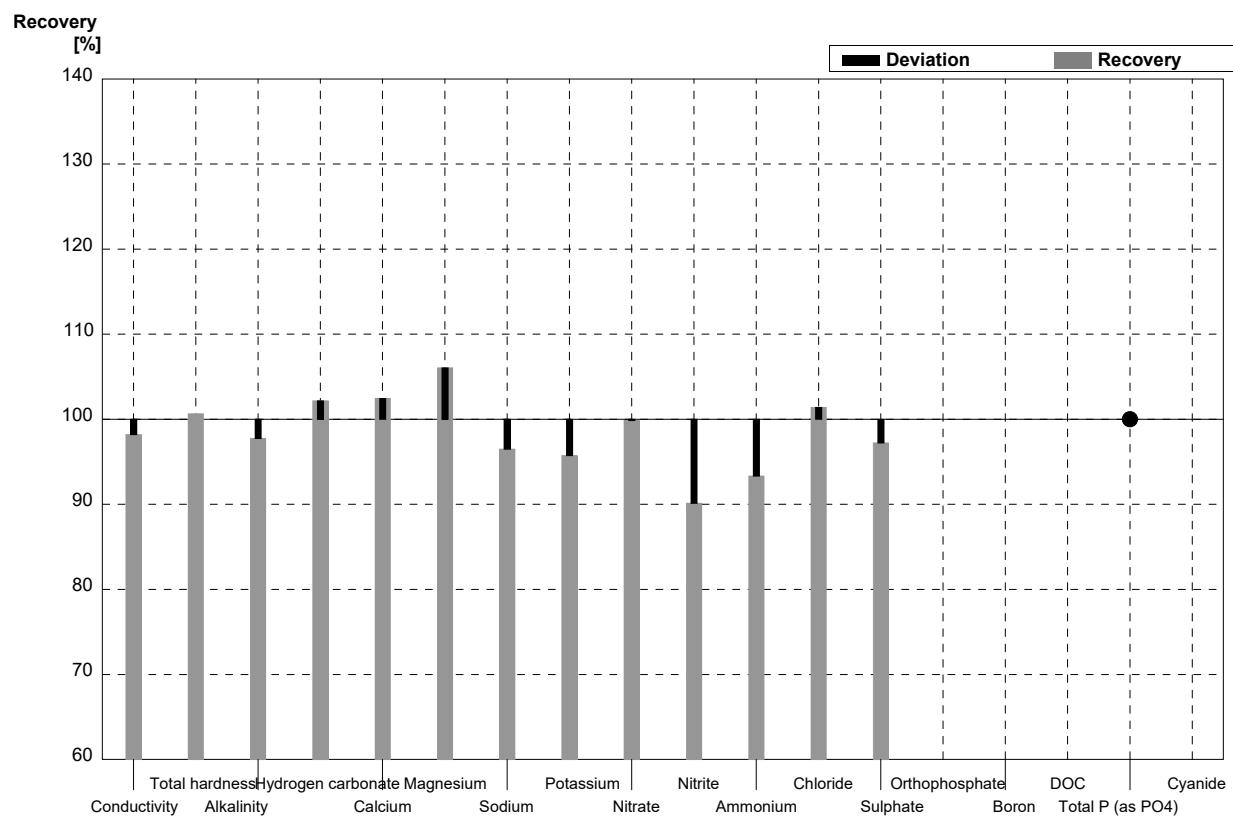
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	479,1	14,0	µS/cm	98%
Total hardness	1,55	0,02	1,5493	0,025	mmol/l	100%
Alkalinity	3,48	0,03	3,414	0,025	mmol/l	98%
Hydrogen carbonate	209	2	208	10	mg/l	100%
Calcium	49,7	0,6	51	2	mg/l	103%
Magnesium	7,41	0,07	7,5	0,4	mg/l	101%
Sodium	38,6	0,4	38	1	mg/l	98%
Potassium	7,66	0,05	7,6	0,2	mg/l	99%
Nitrate	36,4	0,2	36	1	mg/l	99%
Nitrite	0,036	0,001	0,031	0,013	mg/l	86%
Ammonium	<0,01		0	0,007	mg/l	•
Chloride	21,1	0,1	20	1	mg/l	95%
Sulphate	14,9	0,1	14	1,5	mg/l	94%
Orthophosphate	0,055	0,003			mg/l	
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003	0,11	0,05	mg/l	93%
Cyanide	0,072	0,002			mg/l	



Sample N148B

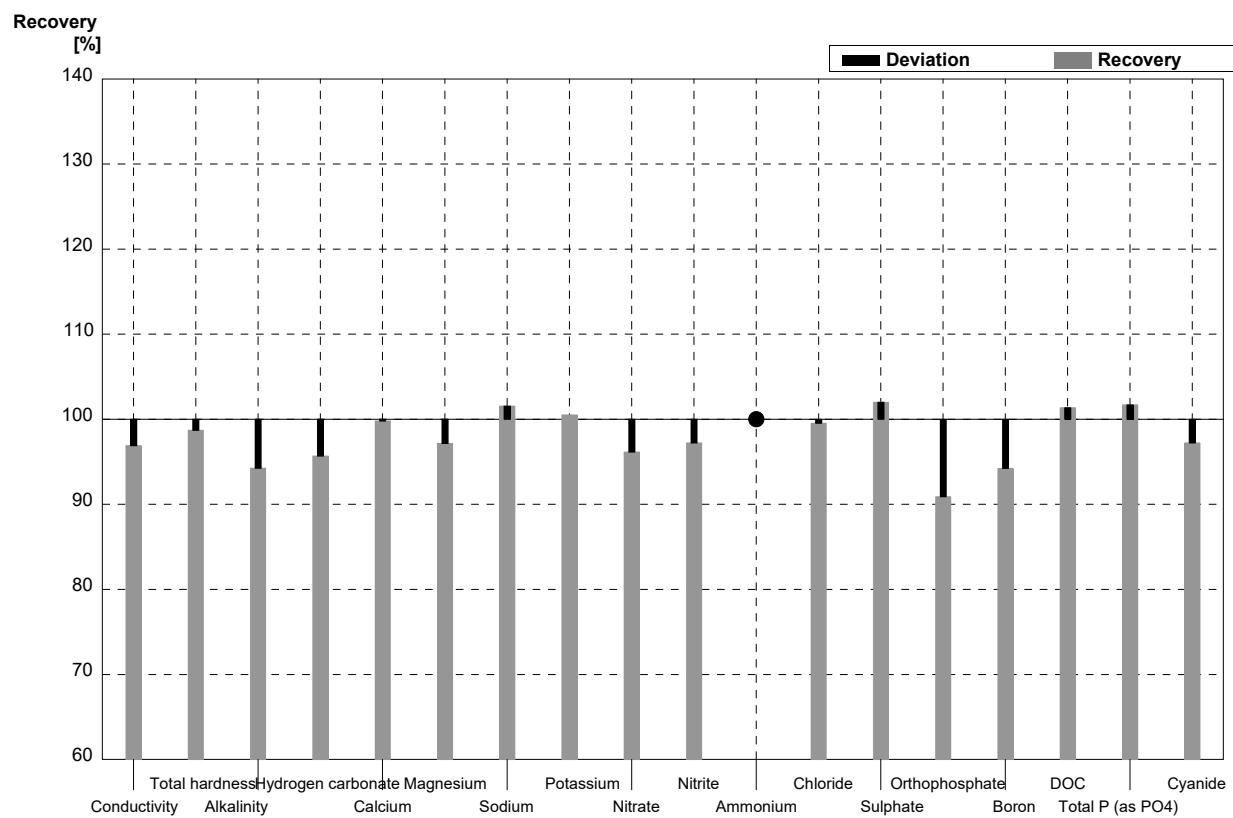
Laboratory AM

Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	551	2	541,1	14,0	$\mu\text{S}/\text{cm}$	98%
Total hardness	2,27	0,01	2,2847	0,025	mmol/l	101%
Alkalinity	1,25	0,01	1,222	0,025	mmol/l	98%
Hydrogen carbonate	73,4	0,9	75	10	mg/l	102%
Calcium	69,3	0,4	71	2	mg/l	102%
Magnesium	13,2	0,1	14	0,4	mg/l	106%
Sodium	11,4	0,2	11	1	mg/l	96%
Potassium	1,88	0,05	1,8	0,2	mg/l	96%
Nitrate	73,1	0,4	73	1	mg/l	100%
Nitrite	0,071	0,002	0,064	0,013	mg/l	90%
Ammonium	0,075	0,005	0,070	0,007	mg/l	93%
Chloride	57,2	0,3	58	1	mg/l	101%
Sulphate	50,4	0,3	49	1,5	mg/l	97%
Orthophosphate	<0,009				mg/l	
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009		<0,05	0	mg/l	•
Cyanide	0,032	0,002			mg/l	



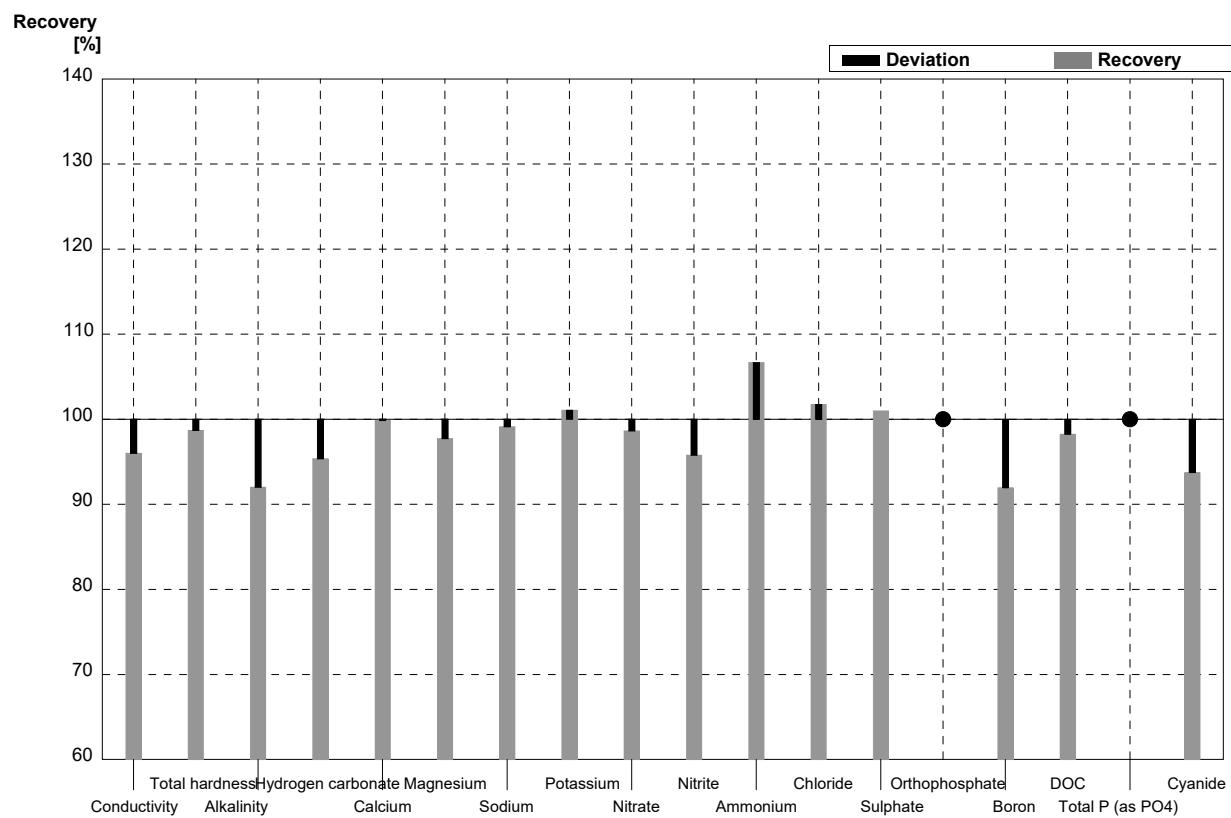
Sample N148A
Laboratory AN

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	472	19	µS/cm	97%
Total hardness	1,55	0,02	1,53		mmol/l	99%
Alkalinity	3,48	0,03	3,28		mmol/l	94%
Hydrogen carbonate	209	2	200		mg/l	96%
Calcium	49,7	0,6	49,6	3,5	mg/l	100%
Magnesium	7,41	0,07	7,2	0,6	mg/l	97%
Sodium	38,6	0,4	39,2	4,3	mg/l	102%
Potassium	7,66	0,05	7,7	1,2	mg/l	101%
Nitrate	36,4	0,2	35,0	2,5	mg/l	96%
Nitrite	0,036	0,001	0,035	0,006	mg/l	97%
Ammonium	<0,01		<0,04		mg/l	•
Chloride	21,1	0,1	21,0	1,1	mg/l	100%
Sulphate	14,9	0,1	15,2	0,9	mg/l	102%
Orthophosphate	0,055	0,003	0,050		mg/l	91%
Boron	0,052	0,001	0,049	0,008	mg/l	94%
DOC	3,65	0,05	3,7	0,4	mg/l	101%
Total P (as PO ₄)	0,118	0,003	0,12		mg/l	102%
Cyanide	0,072	0,002	0,07		mg/l	97%



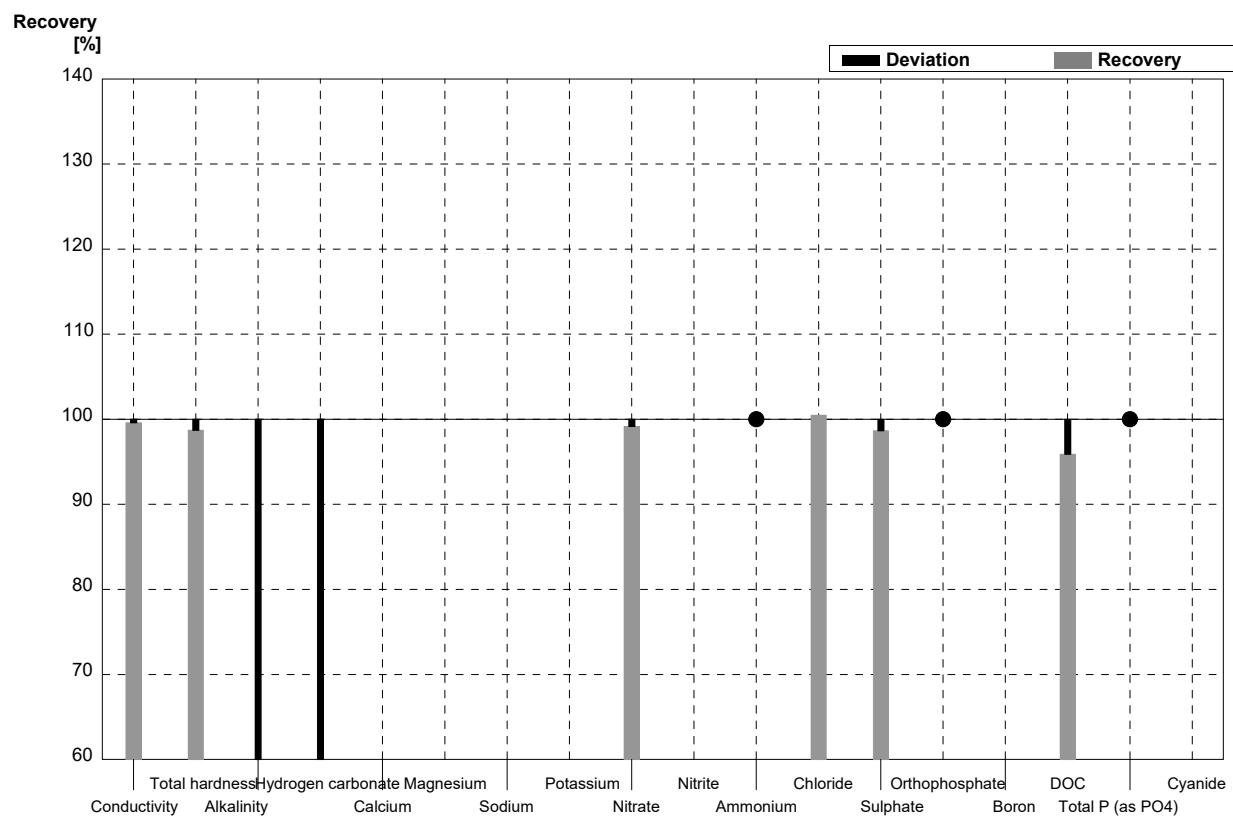
Sample N148B
Laboratory AN

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	529	21	µS/cm	96%
Total hardness	2,27	0,01	2,24		mmol/l	99%
Alkalinity	1,25	0,01	1,15		mmol/l	92%
Hydrogen carbonate	73,4	0,9	70		mg/l	95%
Calcium	69,3	0,4	69,2	4,8	mg/l	100%
Magnesium	13,2	0,1	12,9	1,0	mg/l	98%
Sodium	11,4	0,2	11,3	1,2	mg/l	99%
Potassium	1,88	0,05	1,9	0,4	mg/l	101%
Nitrate	73,1	0,4	72,1	5,0	mg/l	99%
Nitrite	0,071	0,002	0,068	0,012	mg/l	96%
Ammonium	0,075	0,005	0,08	0,01	mg/l	107%
Chloride	57,2	0,3	58,2	2,9	mg/l	102%
Sulphate	50,4	0,3	50,9	3,1	mg/l	101%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,112	0,001	0,103	0,016	mg/l	92%
DOC	4,58	0,05	4,5	0,5	mg/l	98%
Total P (as PO ₄)	<0,009		<0,015		mg/l	•
Cyanide	0,032	0,002	0,03		mg/l	94%



Sample N148A
Laboratory AO

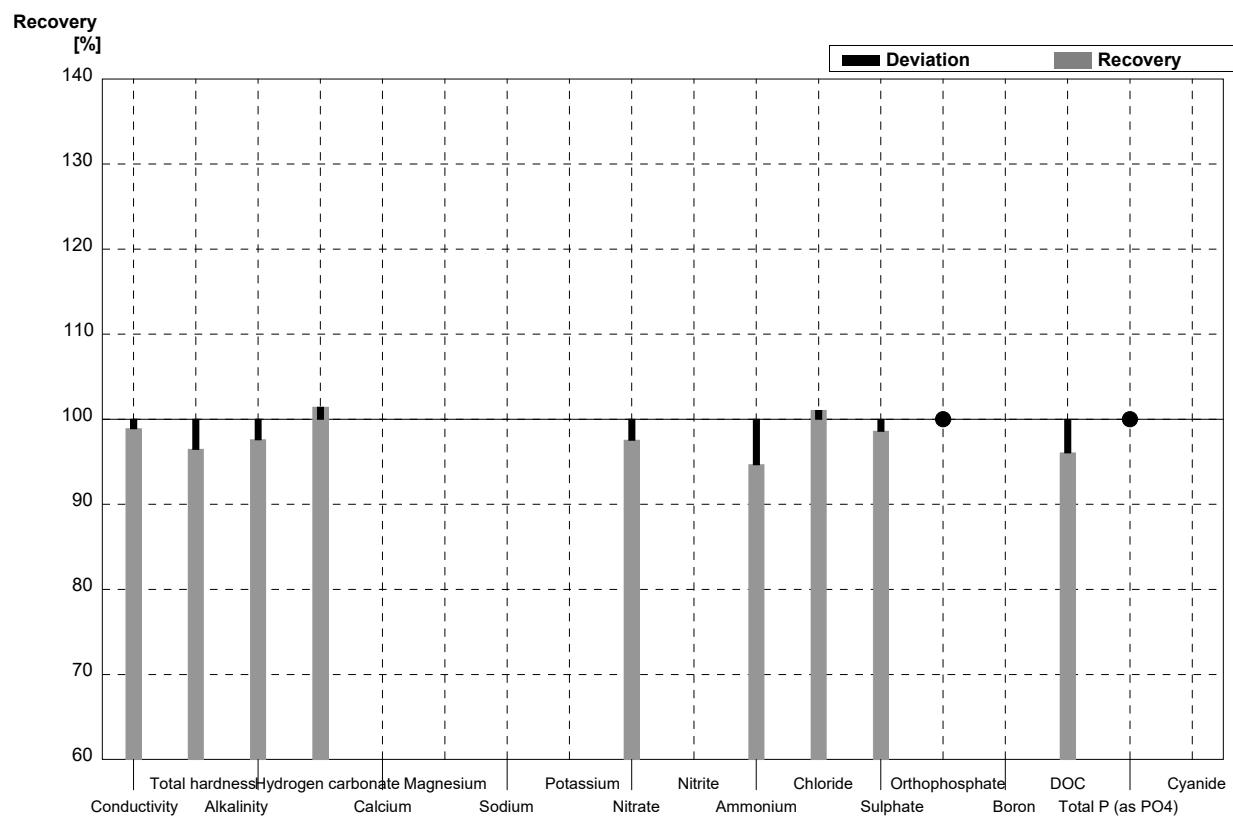
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	485	22	µS/cm	100%
Total hardness	1,55	0,02	1,53	0,02	mmol/l	99%
Alkalinity	3,48	0,03	1,71	0,11	mmol/l	49%
Hydrogen carbonate	209	2	104,34	6,68	mg/l	50%
Calcium	49,7	0,6			mg/l	
Magnesium	7,41	0,07			mg/l	
Sodium	38,6	0,4			mg/l	
Potassium	7,66	0,05			mg/l	
Nitrate	36,4	0,2	36,1	0,3	mg/l	99%
Nitrite	0,036	0,001			mg/l	
Ammonium	<0,01		<0,032		mg/l	•
Chloride	21,1	0,1	21,2	0,2	mg/l	100%
Sulphate	14,9	0,1	14,7	0,2	mg/l	99%
Orthophosphate	0,055	0,003	<0,153		mg/l	•
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05	3,5	0,01	mg/l	96%
Total P (as PO ₄)	0,118	0,003	<0,153		mg/l	•
Cyanide	0,072	0,002			mg/l	



Sample N148B

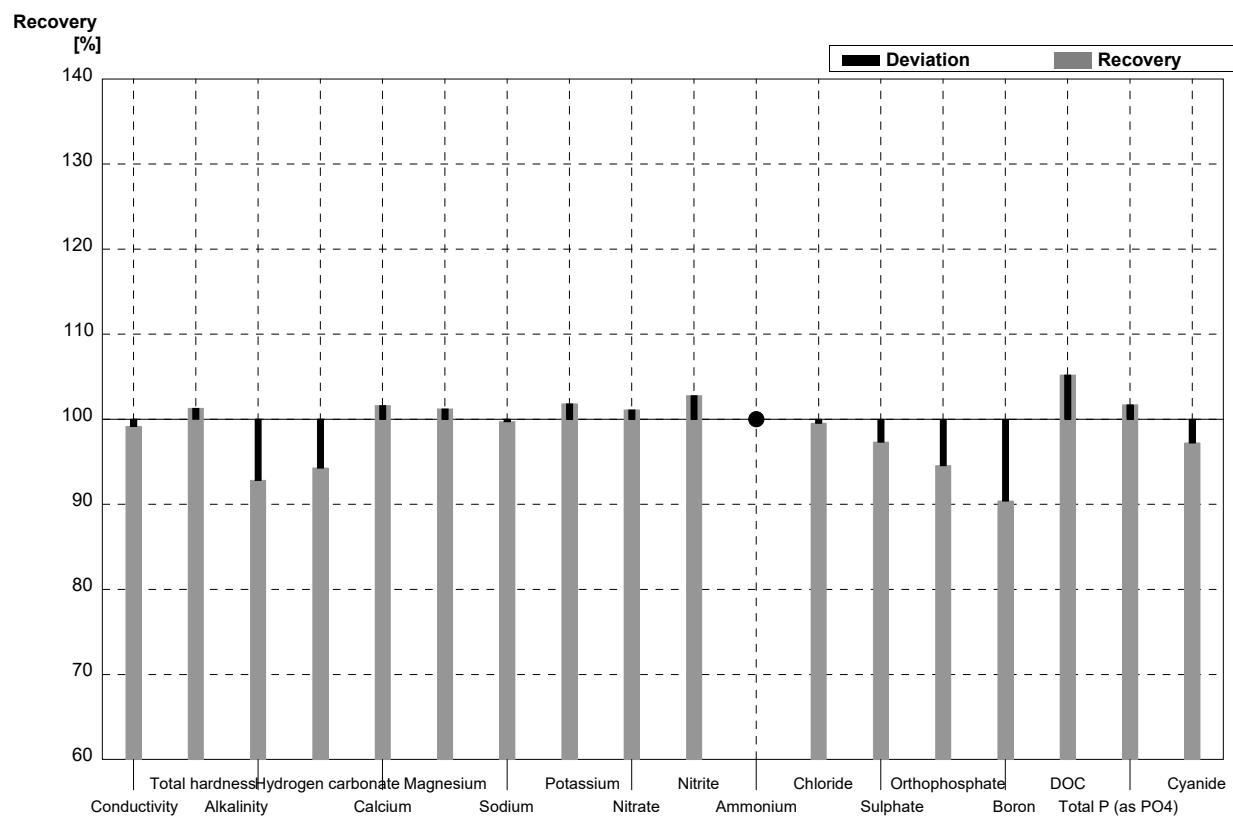
Laboratory AO

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	545	25	µS/cm	99%
Total hardness	2,27	0,01	2,19	0,02	mmol/l	96%
Alkalinity	1,25	0,01	1,22	0,08	mmol/l	98%
Hydrogen carbonate	73,4	0,9	74,44	4,76	mg/l	101%
Calcium	69,3	0,4			mg/l	
Magnesium	13,2	0,1			mg/l	
Sodium	11,4	0,2			mg/l	
Potassium	1,88	0,05			mg/l	
Nitrate	73,1	0,4	71,3	0,6	mg/l	98%
Nitrite	0,071	0,002			mg/l	
Ammonium	0,075	0,005	0,071	0,01	mg/l	95%
Chloride	57,2	0,3	57,8	0,6	mg/l	101%
Sulphate	50,4	0,3	49,7	0,5	mg/l	99%
Orthophosphate	<0,009		<0,153		mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05	4,4	0,1	mg/l	96%
Total P (as PO ₄)	<0,009		<0,153		mg/l	•
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory AP

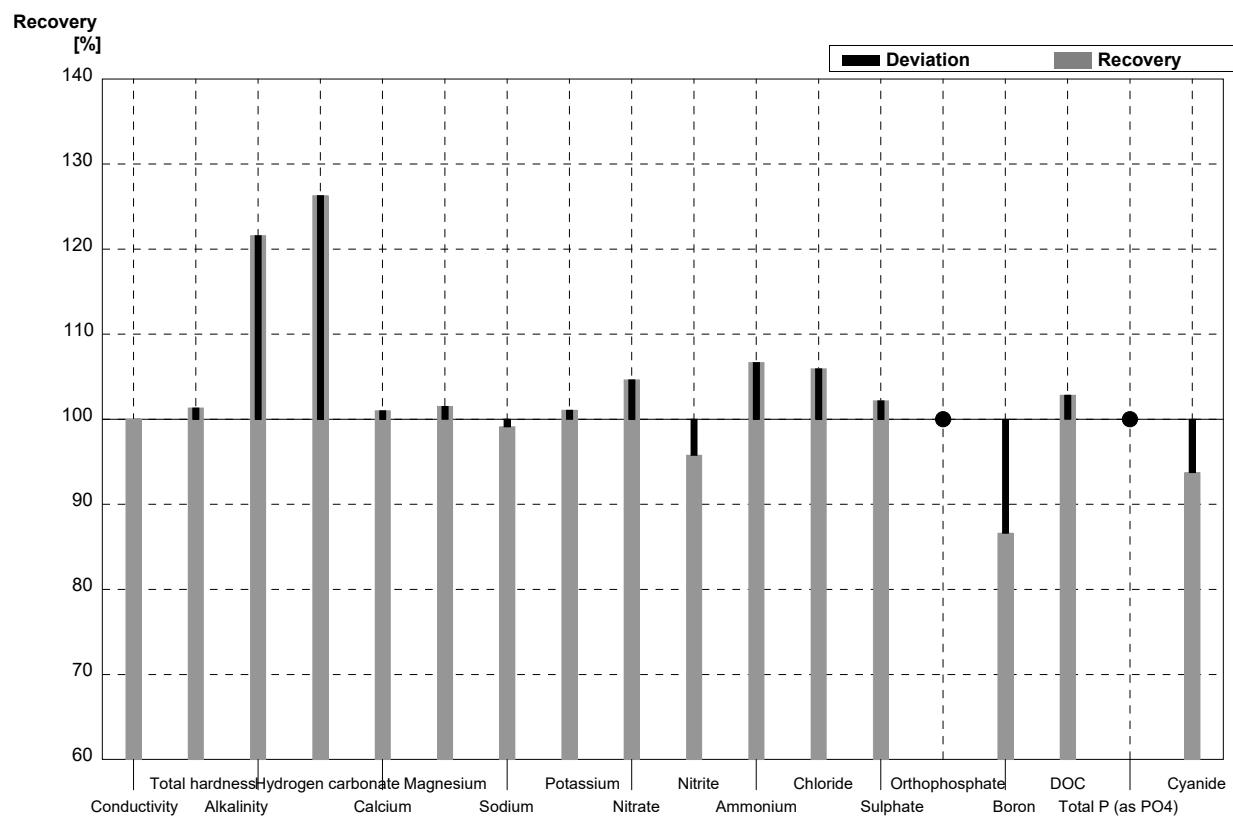
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	483	48	µS/cm	99%
Total hardness	1,55	0,02	1,57	0,13	mmol/l	101%
Alkalinity	3,48	0,03	3,23		mmol/l	93%
Hydrogen carbonate	209	2	197		mg/l	94%
Calcium	49,7	0,6	50,5	4,0	mg/l	102%
Magnesium	7,41	0,07	7,5	0,6	mg/l	101%
Sodium	38,6	0,4	38,5	3,1	mg/l	100%
Potassium	7,66	0,05	7,8	0,9	mg/l	102%
Nitrate	36,4	0,2	36,8	4,4	mg/l	101%
Nitrite	0,036	0,001	0,037	0,007	mg/l	103%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	21,1	0,1	21,0	2,0	mg/l	100%
Sulphate	14,9	0,1	14,5	1,5	mg/l	97%
Orthophosphate	0,055	0,003	0,052	0,019	mg/l	95%
Boron	0,052	0,001	0,047	0,008	mg/l	90%
DOC	3,65	0,05	3,84	0,46	mg/l	105%
Total P (as PO ₄)	0,118	0,003	0,12	0,03	mg/l	102%
Cyanide	0,072	0,002	0,07		mg/l	97%



Sample N148B

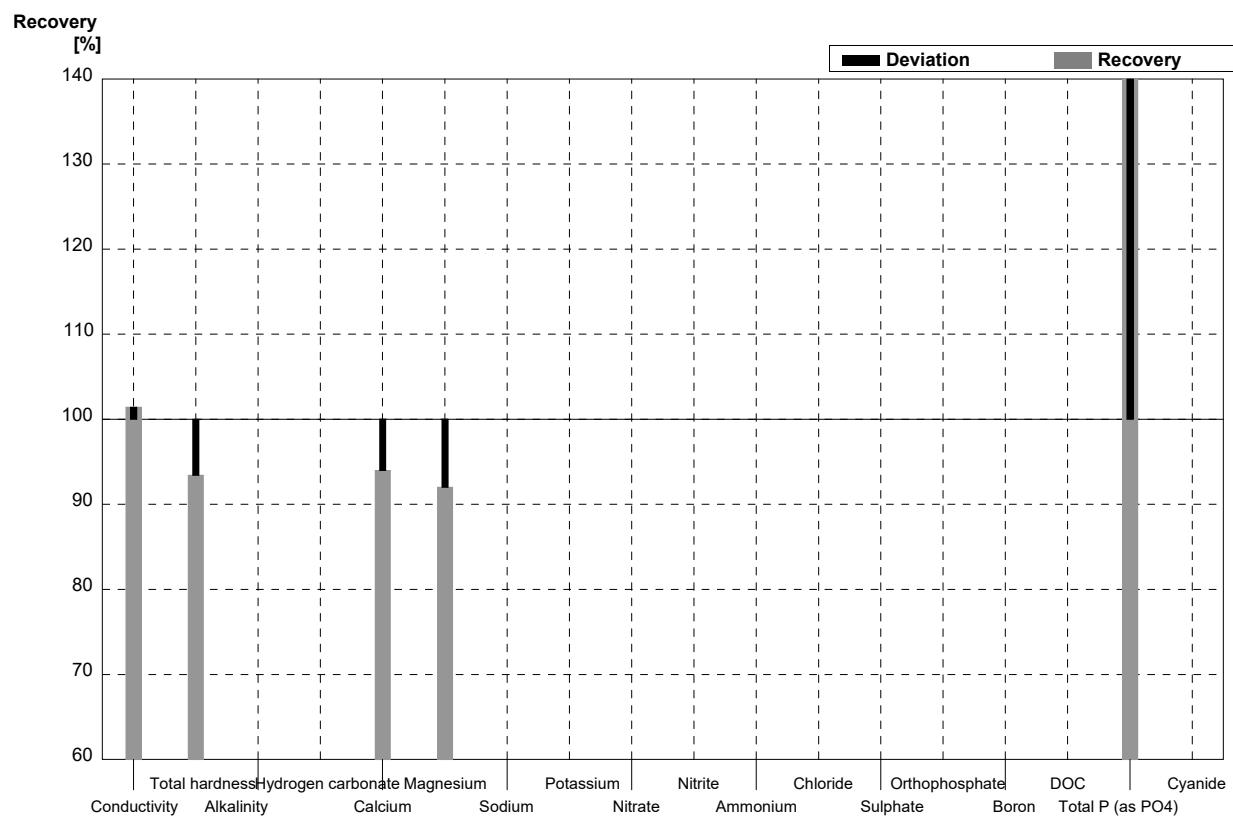
Laboratory AP

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	551	55	µS/cm	100%
Total hardness	2,27	0,01	2,30	0,18	mmol/l	101%
Alkalinity	1,25	0,01	1,52		mmol/l	122%
Hydrogen carbonate	73,4	0,9	92,7		mg/l	126%
Calcium	69,3	0,4	70,0	5,6	mg/l	101%
Magnesium	13,2	0,1	13,4	1,0	mg/l	102%
Sodium	11,4	0,2	11,3	0,9	mg/l	99%
Potassium	1,88	0,05	1,9	0,2	mg/l	101%
Nitrate	73,1	0,4	76,5	9,2	mg/l	105%
Nitrite	0,071	0,002	0,068	0,014	mg/l	96%
Ammonium	0,075	0,005	0,08	0,01	mg/l	107%
Chloride	57,2	0,3	60,6	5,5	mg/l	106%
Sulphate	50,4	0,3	51,5	5,1	mg/l	102%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,112	0,001	0,097	0,017	mg/l	87%
DOC	4,58	0,05	4,71	0,57	mg/l	103%
Total P (as PO ₄)	<0,009		<0,015		mg/l	•
Cyanide	0,032	0,002	0,03		mg/l	94%



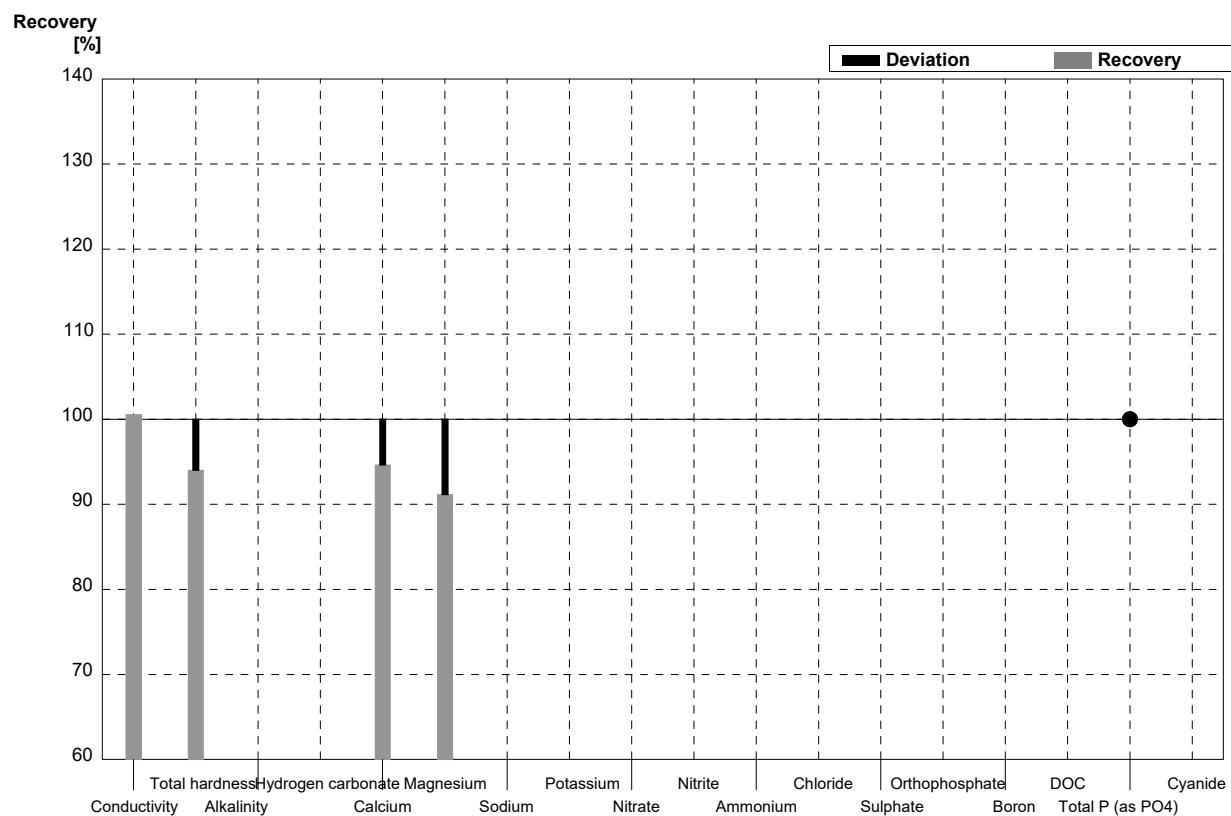
Sample N148A
Laboratory AQ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	494		µS/cm	101%
Total hardness	1,55	0,02	1,448		mmol/l	93%
Alkalinity	3,48	0,03			mmol/l	
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	46,72		mg/l	94%
Magnesium	7,41	0,07	6,818		mg/l	92%
Sodium	38,6	0,4			mg/l	
Potassium	7,66	0,05			mg/l	
Nitrate	36,4	0,2			mg/l	
Nitrite	0,036	0,001			mg/l	
Ammonium	<0,01				mg/l	
Chloride	21,1	0,1			mg/l	
Sulphate	14,9	0,1			mg/l	
Orthophosphate	0,055	0,003			mg/l	
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003	1,2		mg/l	1017%
Cyanide	0,072	0,002			mg/l	



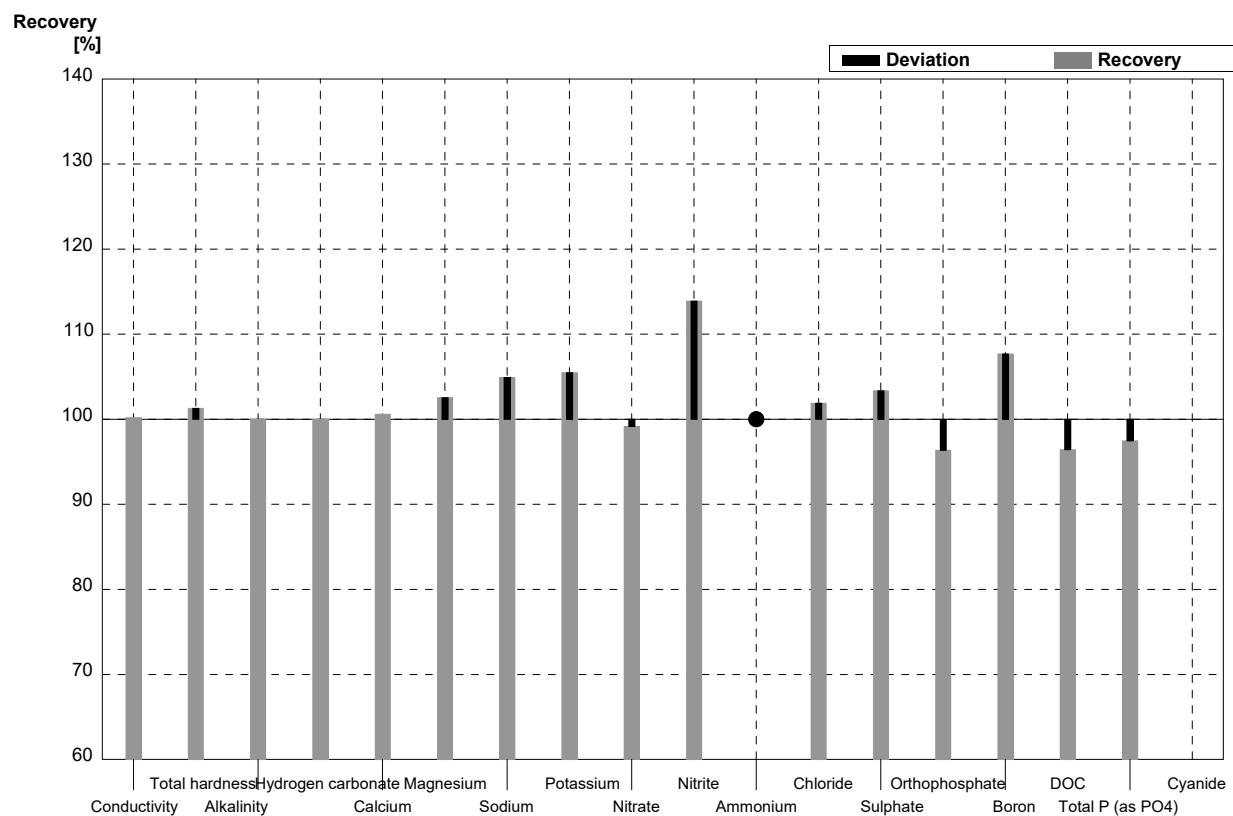
Sample N148B
Laboratory AQ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	554		µS/cm	101%
Total hardness	2,27	0,01	2,134		mmol/l	94%
Alkalinity	1,25	0,01			mmol/l	
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	65,58		mg/l	95%
Magnesium	13,2	0,1	12,03		mg/l	91%
Sodium	11,4	0,2			mg/l	
Potassium	1,88	0,05			mg/l	
Nitrate	73,1	0,4			mg/l	
Nitrite	0,071	0,002			mg/l	
Ammonium	0,075	0,005			mg/l	
Chloride	57,2	0,3			mg/l	
Sulphate	50,4	0,3			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009		<0,2		mg/l	•
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory AR

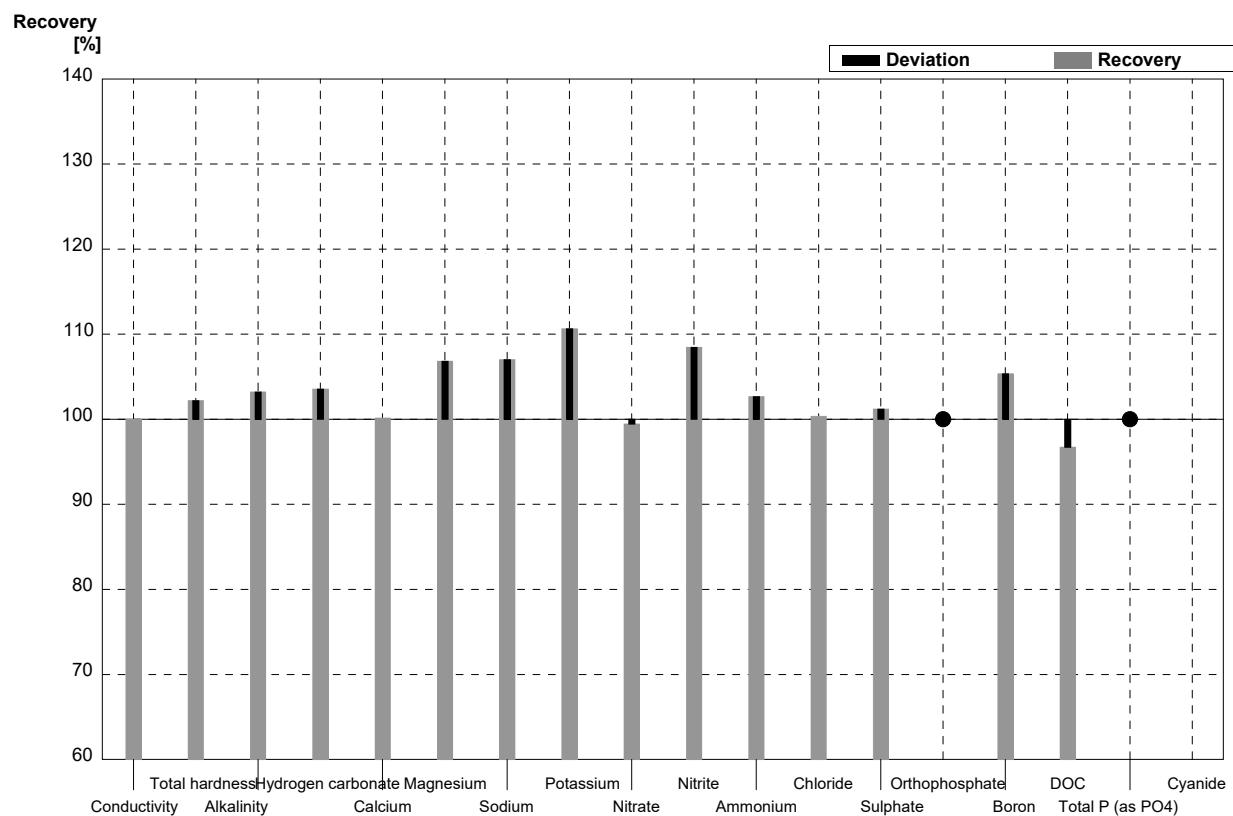
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	488	10	µS/cm	100%
Total hardness	1,55	0,02	1,57	0,08	mmol/l	101%
Alkalinity	3,48	0,03	3,48	0,17	mmol/l	100%
Hydrogen carbonate	209	2	209	10	mg/l	100%
Calcium	49,7	0,6	50,0	2,5	mg/l	101%
Magnesium	7,41	0,07	7,6	0,4	mg/l	103%
Sodium	38,6	0,4	40,5	2,0	mg/l	105%
Potassium	7,66	0,05	8,08	0,40	mg/l	105%
Nitrate	36,4	0,2	36,1	1,1	mg/l	99%
Nitrite	0,036	0,001	0,041	0,004	mg/l	114%
Ammonium	<0,01		<0,030		mg/l	•
Chloride	21,1	0,1	21,5	0,7	mg/l	102%
Sulphate	14,9	0,1	15,4	0,5	mg/l	103%
Orthophosphate	0,055	0,003	0,053	0,005	mg/l	96%
Boron	0,052	0,001	0,056	0,006	mg/l	108%
DOC	3,65	0,05	3,52	0,35	mg/l	96%
Total P (as PO ₄)	0,118	0,003	0,115	0,017	mg/l	97%
Cyanide	0,072	0,002			mg/l	



Sample N148B

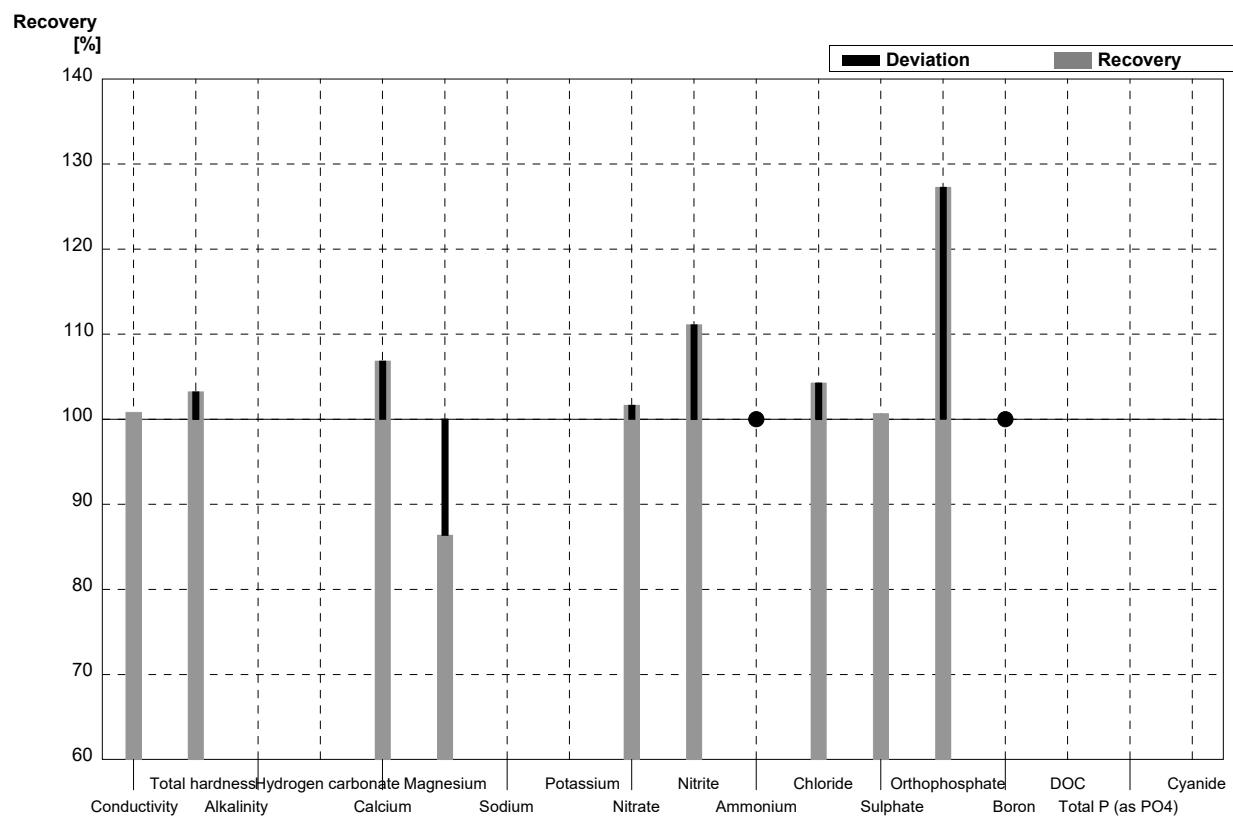
Laboratory AR

Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	551	2	551	11	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,27	0,01	2,32	0,09	mmol/l	102%
Alkalinity	1,25	0,01	1,29	0,07	mmol/l	103%
Hydrogen carbonate	73,4	0,9	76	4	mg/l	104%
Calcium	69,3	0,4	69,4	2,8	mg/l	100%
Magnesium	13,2	0,1	14,1	0,6	mg/l	107%
Sodium	11,4	0,2	12,2	0,6	mg/l	107%
Potassium	1,88	0,05	2,08	0,10	mg/l	111%
Nitrate	73,1	0,4	72,7	2,2	mg/l	99%
Nitrite	0,071	0,002	0,077	0,008	mg/l	108%
Ammonium	0,075	0,005	0,077	0,008	mg/l	103%
Chloride	57,2	0,3	57,4	1,7	mg/l	100%
Sulphate	50,4	0,3	51,0	1,5	mg/l	101%
Orthophosphate	<0,009		<0,020		mg/l	•
Boron	0,112	0,001	0,118	0,012	mg/l	105%
DOC	4,58	0,05	4,43	0,44	mg/l	97%
Total P (as PO ₄)	<0,009		<0,031		mg/l	•
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory AS

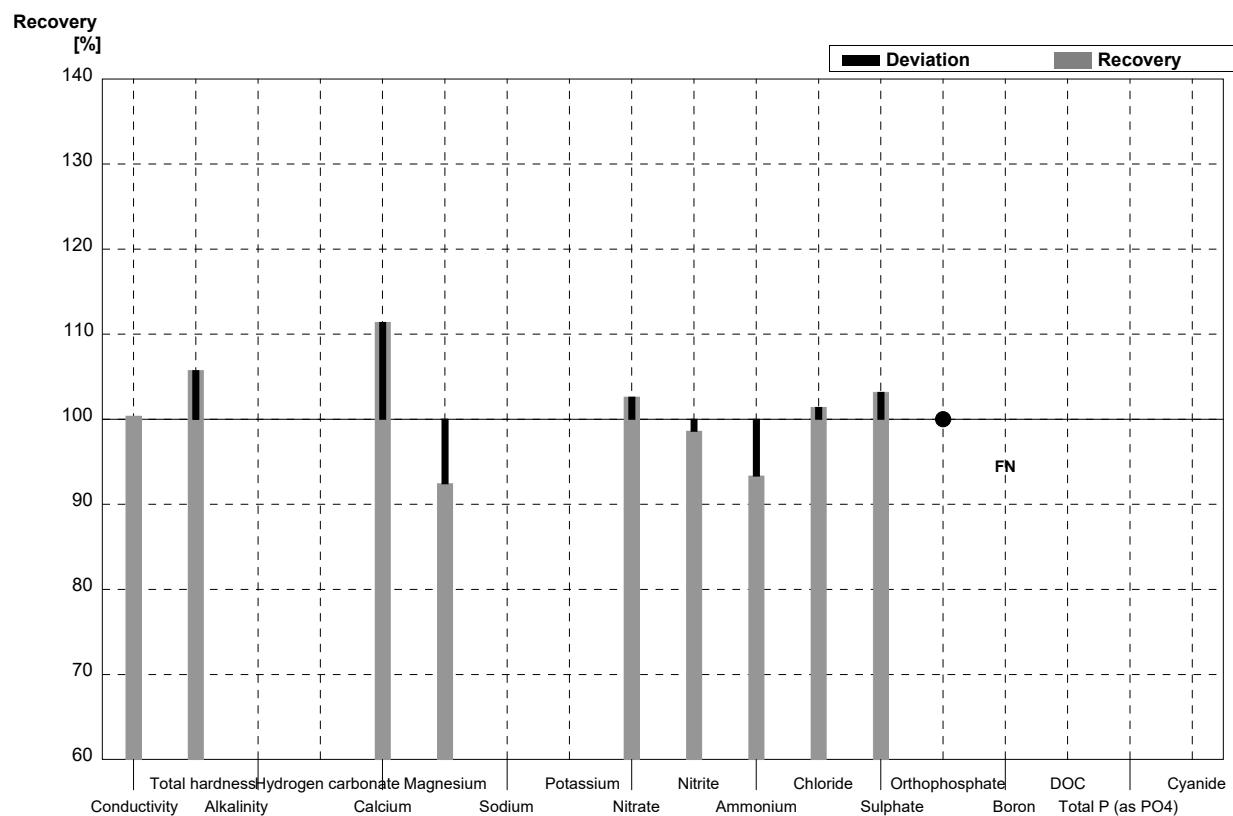
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	491	24,5	µS/cm	101%
Total hardness	1,55	0,02	1,6	0,1	mmol/l	103%
Alkalinity	3,48	0,03			mmol/l	
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	53,1	2,7	mg/l	107%
Magnesium	7,41	0,07	6,4	0,3	mg/l	86%
Sodium	38,6	0,4			mg/l	
Potassium	7,66	0,05			mg/l	
Nitrate	36,4	0,2	37	1,9	mg/l	102%
Nitrite	0,036	0,001	0,04	0,002	mg/l	111%
Ammonium	<0,01		<0,06		mg/l	•
Chloride	21,1	0,1	22	1,1	mg/l	104%
Sulphate	14,9	0,1	15	0,8	mg/l	101%
Orthophosphate	0,055	0,003	0,07	0,004	mg/l	127%
Boron	0,052	0,001	<0,10		mg/l	•
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



Sample N148B

Laboratory AS

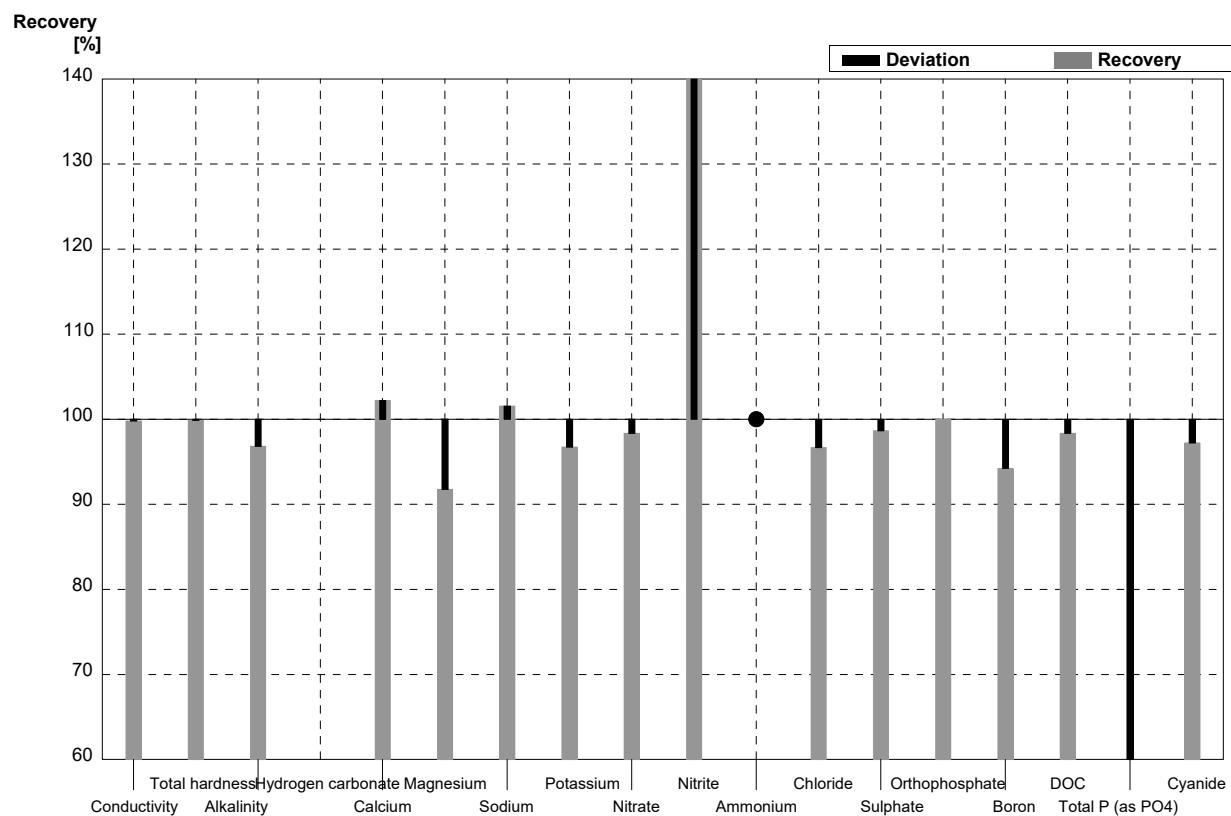
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	553	27,7	µS/cm	100%
Total hardness	2,27	0,01	2,4	0,1	mmol/l	106%
Alkalinity	1,25	0,01			mmol/l	
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	77,2	3,9	mg/l	111%
Magnesium	13,2	0,1	12,2	0,6	mg/l	92%
Sodium	11,4	0,2			mg/l	
Potassium	1,88	0,05			mg/l	
Nitrate	73,1	0,4	75	3,8	mg/l	103%
Nitrite	0,071	0,002	0,07	0,004	mg/l	99%
Ammonium	0,075	0,005	0,07	0,004	mg/l	93%
Chloride	57,2	0,3	58	2,9	mg/l	101%
Sulphate	50,4	0,3	52	2,6	mg/l	103%
Orthophosphate	<0,009		<0,05		mg/l	•
Boron	0,112	0,001	<0,10		mg/l	FN
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



Sample N148A

Laboratory AT

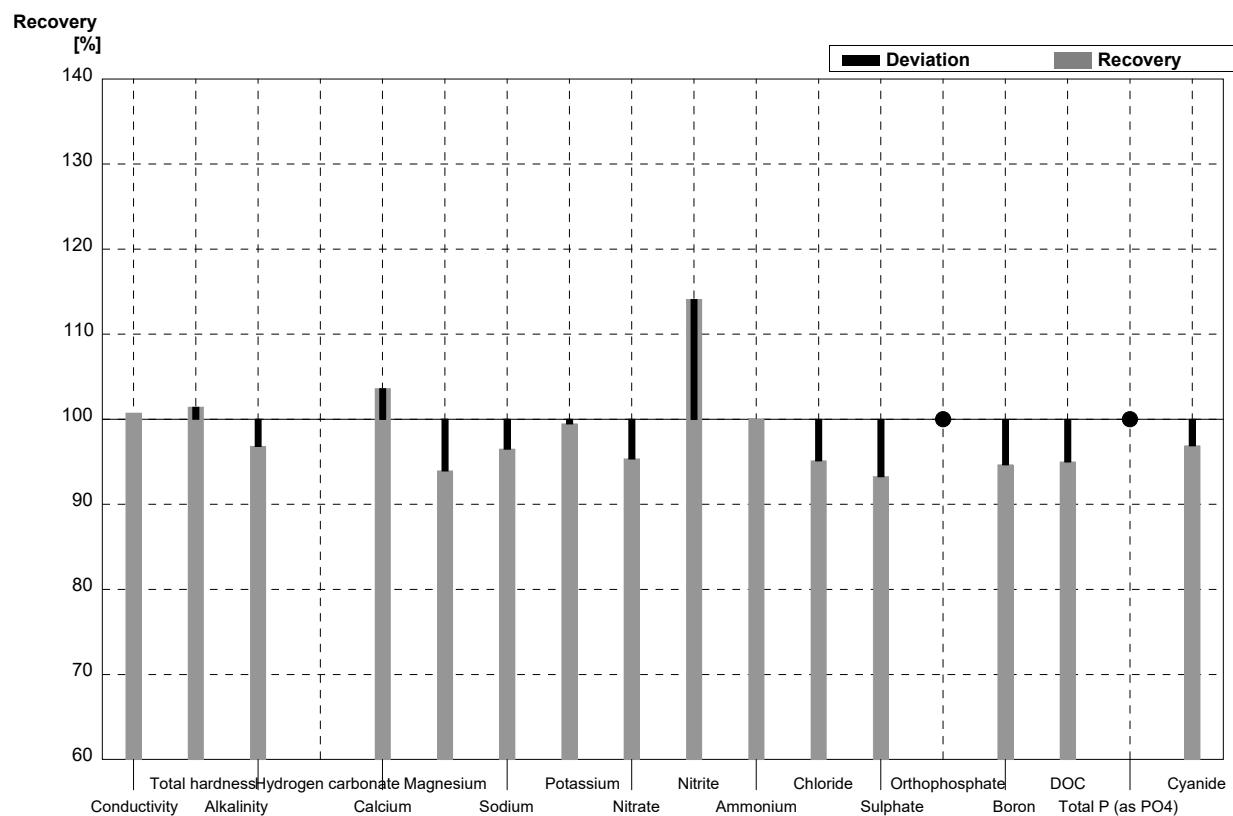
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	486	10	µS/cm	100%
Total hardness	1,55	0,02	1,548		mmol/l	100%
Alkalinity	3,48	0,03	3,37	0,01	mmol/l	97%
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	50,8	0,5	mg/l	102%
Magnesium	7,41	0,07	6,8	0,25	mg/l	92%
Sodium	38,6	0,4	39,2	0,25	mg/l	102%
Potassium	7,66	0,05	7,41	0,05	mg/l	97%
Nitrate	36,4	0,2	35,8	0,003	mg/l	98%
Nitrite	0,036	0,001	0,055	0,003	mg/l	153%
Ammonium	<0,01		<0,0039	0,002	mg/l	•
Chloride	21,1	0,1	20,4	0,27	mg/l	97%
Sulphate	14,9	0,1	14,7	0,17	mg/l	99%
Orthophosphate	0,055	0,003	0,055	0,001	mg/l	100%
Boron	0,052	0,001	0,049	0,001	mg/l	94%
DOC	3,65	0,05	3,59	0,1	mg/l	98%
Total P (as PO ₄)	0,118	0,003	0,063	0,001	mg/l	53%
Cyanide	0,072	0,002	0,070	0,0015	mg/l	97%



Sample N148B

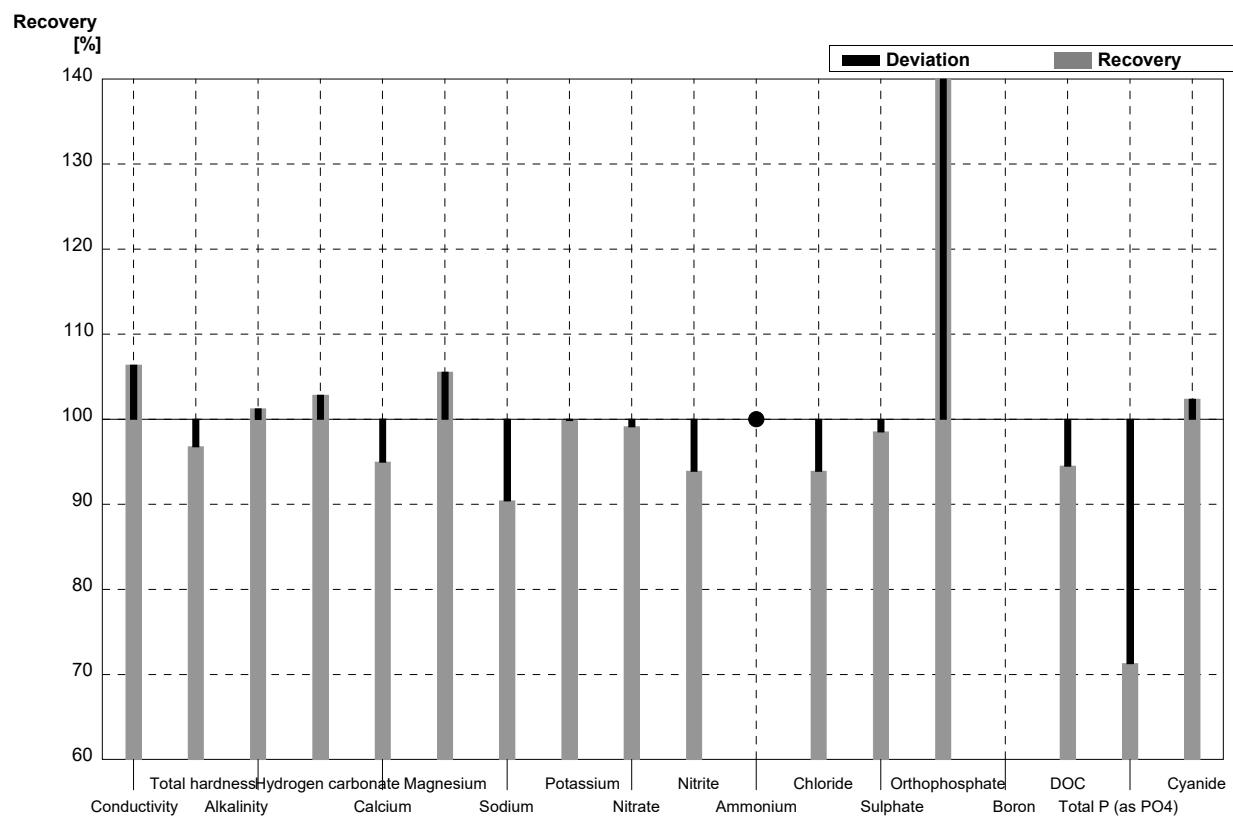
Laboratory AT

Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	551	2	555	10	$\mu\text{S}/\text{cm}$	101%
Total hardness	2,27	0,01	2,302		mmol/l	101%
Alkalinity	1,25	0,01	1,21	0,01	mmol/l	97%
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	71,8	0,5	mg/l	104%
Magnesium	13,2	0,1	12,4	0,25	mg/l	94%
Sodium	11,4	0,2	11,0	0,25	mg/l	96%
Potassium	1,88	0,05	1,87	0,05	mg/l	99%
Nitrate	73,1	0,4	69,7	0,003	mg/l	95%
Nitrite	0,071	0,002	0,081	0,003	mg/l	114%
Ammonium	0,075	0,005	0,075	0,002	mg/l	100%
Chloride	57,2	0,3	54,4	0,27	mg/l	95%
Sulphate	50,4	0,3	47,0	0,17	mg/l	93%
Orthophosphate	<0,009		0,006	0,001	mg/l	•
Boron	0,112	0,001	0,106	0,001	mg/l	95%
DOC	4,58	0,05	4,35	0,1	mg/l	95%
Total P (as PO ₄)	<0,009		0,006	0,001	mg/l	•
Cyanide	0,032	0,002	0,031	0,0015	mg/l	97%



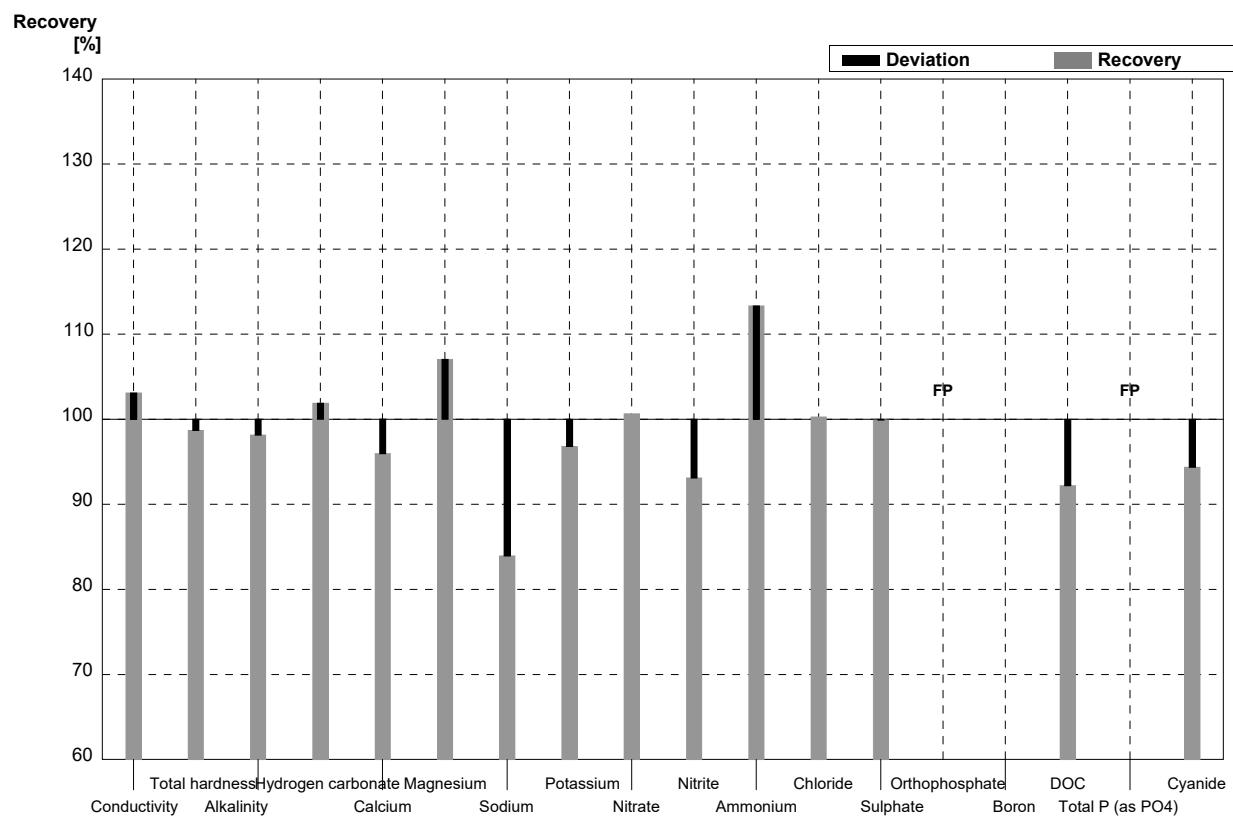
Sample N148A
Laboratory AU

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	518		µS/cm	106%
Total hardness	1,55	0,02	1,50		mmol/l	97%
Alkalinity	3,48	0,03	3,523		mmol/l	101%
Hydrogen carbonate	209	2	214,9		mg/l	103%
Calcium	49,7	0,6	47,2		mg/l	95%
Magnesium	7,41	0,07	7,82		mg/l	106%
Sodium	38,6	0,4	34,9		mg/l	90%
Potassium	7,66	0,05	7,65		mg/l	100%
Nitrate	36,4	0,2	36,08		mg/l	99%
Nitrite	0,036	0,001	0,0338	0,002	mg/l	94%
Ammonium	<0,01		0,0		mg/l	•
Chloride	21,1	0,1	19,81		mg/l	94%
Sulphate	14,9	0,1	14,68		mg/l	99%
Orthophosphate	0,055	0,003	0,077		mg/l	140%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05	3,449		mg/l	94%
Total P (as PO ₄)	0,118	0,003	0,0841		mg/l	71%
Cyanide	0,072	0,002	0,0737		mg/l	102%



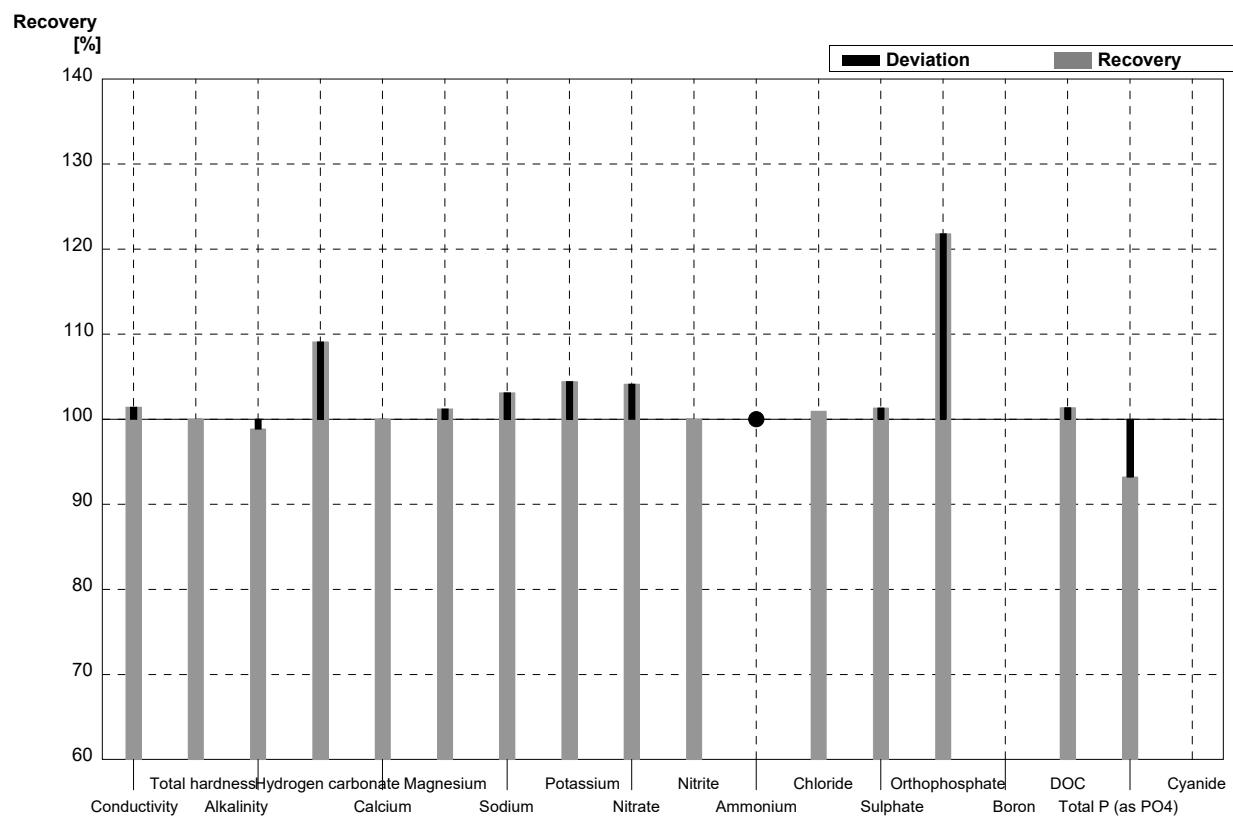
Sample N148B
Laboratory AU

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	568		µS/cm	103%
Total hardness	2,27	0,01	2,24		mmol/l	99%
Alkalinity	1,25	0,01	1,227		mmol/l	98%
Hydrogen carbonate	73,4	0,9	74,8		mg/l	102%
Calcium	69,3	0,4	66,5		mg/l	96%
Magnesium	13,2	0,1	14,13		mg/l	107%
Sodium	11,4	0,2	9,57		mg/l	84%
Potassium	1,88	0,05	1,82		mg/l	97%
Nitrate	73,1	0,4	73,57		mg/l	101%
Nitrite	0,071	0,002	0,0661	0,004	mg/l	93%
Ammonium	0,075	0,005	0,085		mg/l	113%
Chloride	57,2	0,3	57,35		mg/l	100%
Sulphate	50,4	0,3	50,36		mg/l	100%
Orthophosphate	<0,009		0,026		mg/l	FP
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05	4,223		mg/l	92%
Total P (as PO ₄)	<0,009		0,0547		mg/l	FP
Cyanide	0,032	0,002	0,0302		mg/l	94%



Sample N148A
Laboratory AV

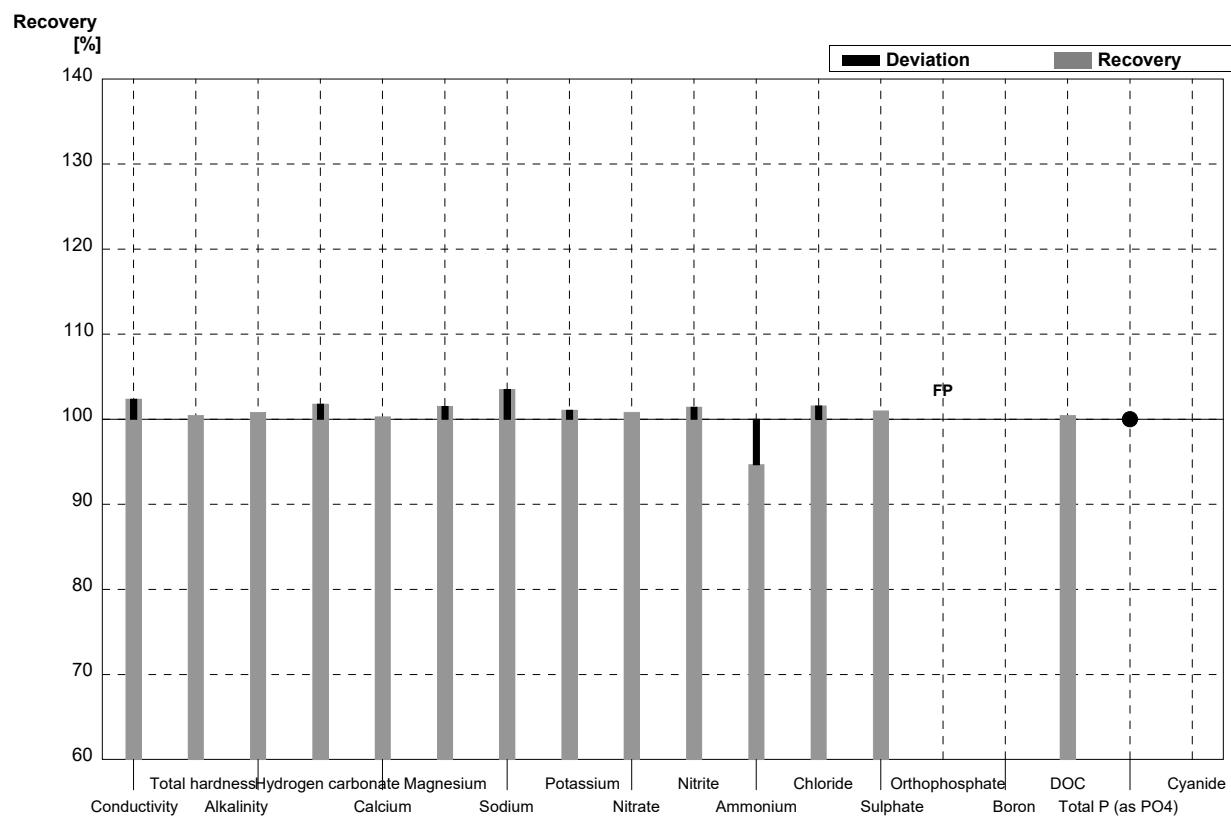
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	494		µS/cm	101%
Total hardness	1,55	0,02	1,55		mmol/l	100%
Alkalinity	3,48	0,03	3,44		mmol/l	99%
Hydrogen carbonate	209	2	228		mg/l	109%
Calcium	49,7	0,6	49,7		mg/l	100%
Magnesium	7,41	0,07	7,5		mg/l	101%
Sodium	38,6	0,4	39,8		mg/l	103%
Potassium	7,66	0,05	8,0		mg/l	104%
Nitrate	36,4	0,2	37,9		mg/l	104%
Nitrite	0,036	0,001	0,036		mg/l	100%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	21,1	0,1	21,3		mg/l	101%
Sulphate	14,9	0,1	15,1		mg/l	101%
Orthophosphate	0,055	0,003	0,067		mg/l	122%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05	3,7		mg/l	101%
Total P (as PO ₄)	0,118	0,003	0,110		mg/l	93%
Cyanide	0,072	0,002			mg/l	



Sample N148B

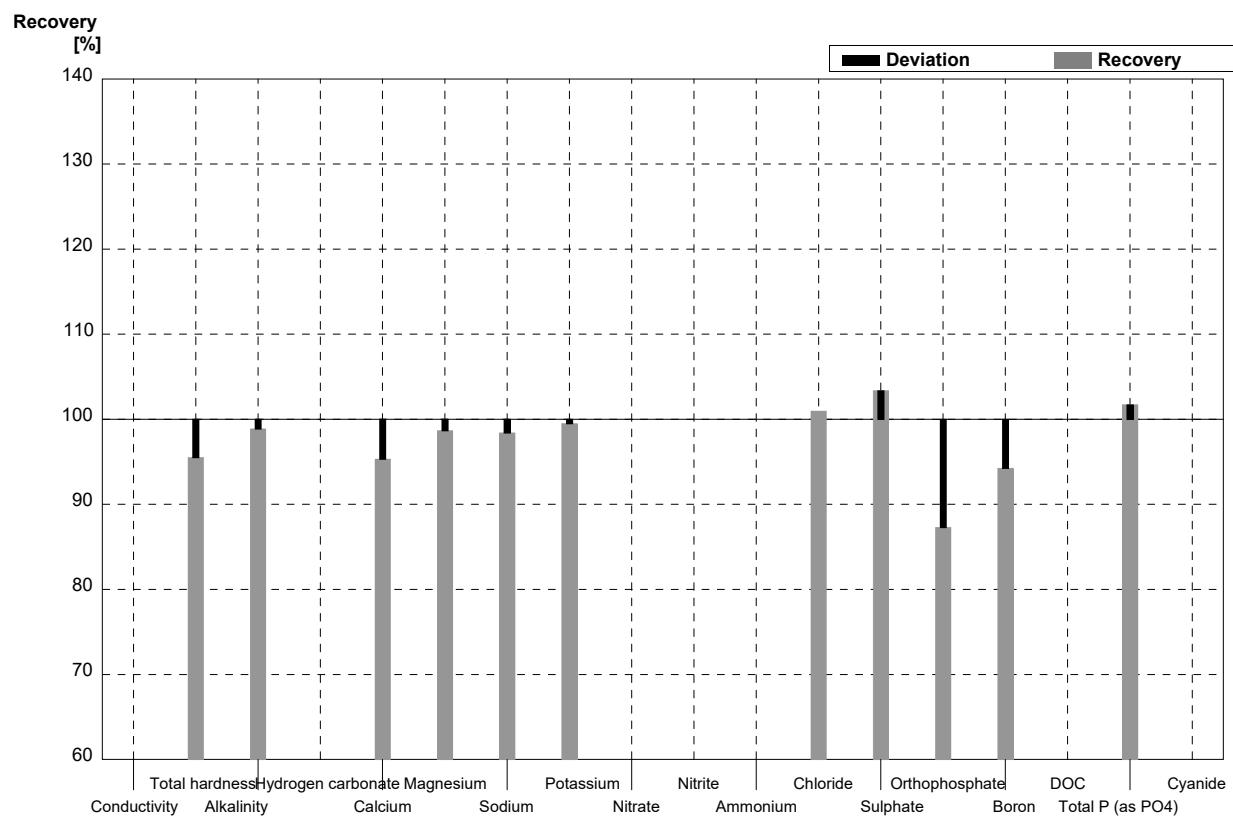
Laboratory AV

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	564		µS/cm	102%
Total hardness	2,27	0,01	2,28		mmol/l	100%
Alkalinity	1,25	0,01	1,26		mmol/l	101%
Hydrogen carbonate	73,4	0,9	74,7		mg/l	102%
Calcium	69,3	0,4	69,5		mg/l	100%
Magnesium	13,2	0,1	13,4		mg/l	102%
Sodium	11,4	0,2	11,8		mg/l	104%
Potassium	1,88	0,05	1,9		mg/l	101%
Nitrate	73,1	0,4	73,7		mg/l	101%
Nitrite	0,071	0,002	0,072		mg/l	101%
Ammonium	0,075	0,005	0,071		mg/l	95%
Chloride	57,2	0,3	58,1		mg/l	102%
Sulphate	50,4	0,3	50,9		mg/l	101%
Orthophosphate	<0,009		0,015		mg/l	FP
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05	4,6		mg/l	100%
Total P (as PO ₄)	<0,009		<0,01		mg/l	*
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory AW

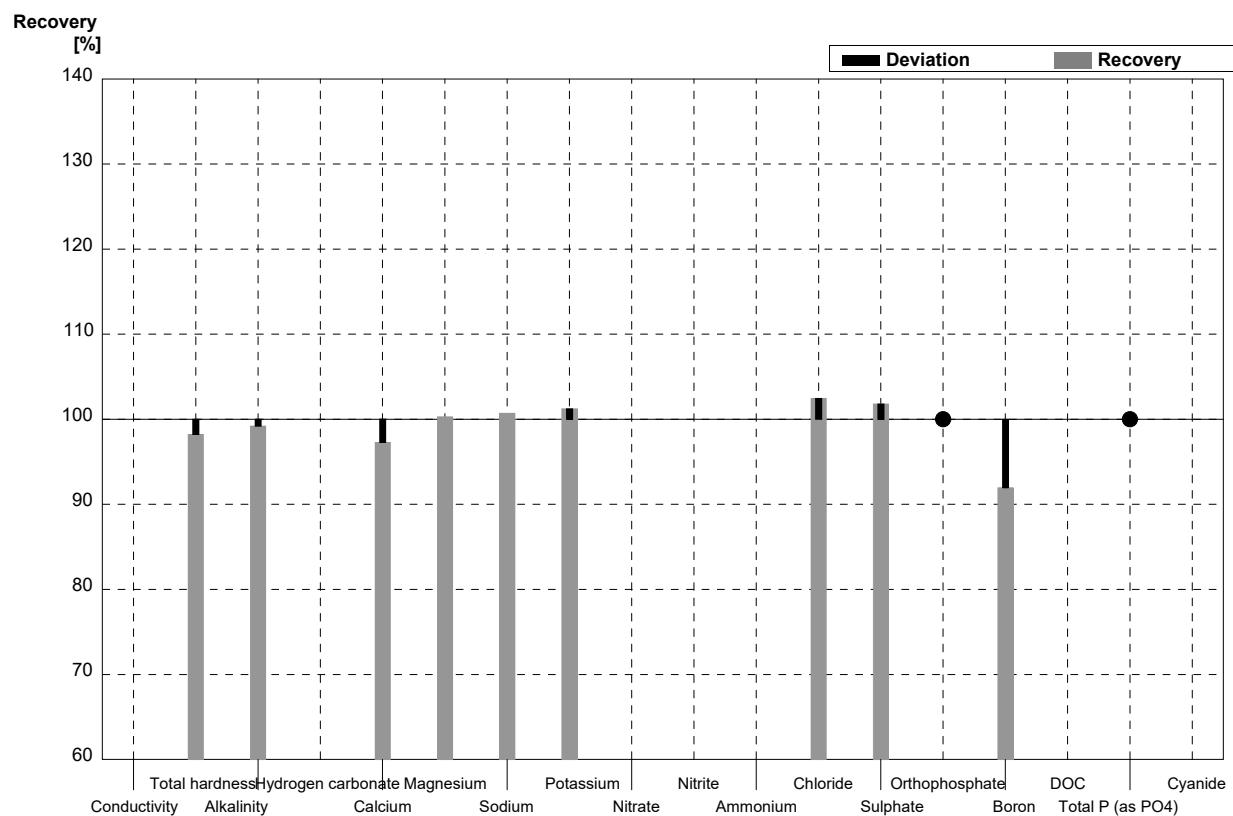
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	487	2			$\mu\text{S}/\text{cm}$	
Total hardness	1,55	0,02	1,48		mmol/l	95%
Alkalinity	3,48	0,03	3,44	0,18	mmol/l	99%
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	47,36	2,81	mg/l	95%
Magnesium	7,41	0,07	7,31	0,71	mg/l	99%
Sodium	38,6	0,4	37,98	2,03	mg/l	98%
Potassium	7,66	0,05	7,62	0,38	mg/l	99%
Nitrate	36,4	0,2			mg/l	
Nitrite	0,036	0,001			mg/l	
Ammonium	<0,01				mg/l	
Chloride	21,1	0,1	21,3	1,53	mg/l	101%
Sulphate	14,9	0,1	15,4		mg/l	103%
Orthophosphate	0,055	0,003	0,048	0,001	mg/l	87%
Boron	0,052	0,001	0,049	0,01	mg/l	94%
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003	0,12		mg/l	102%
Cyanide	0,072	0,002			mg/l	



Sample N148B

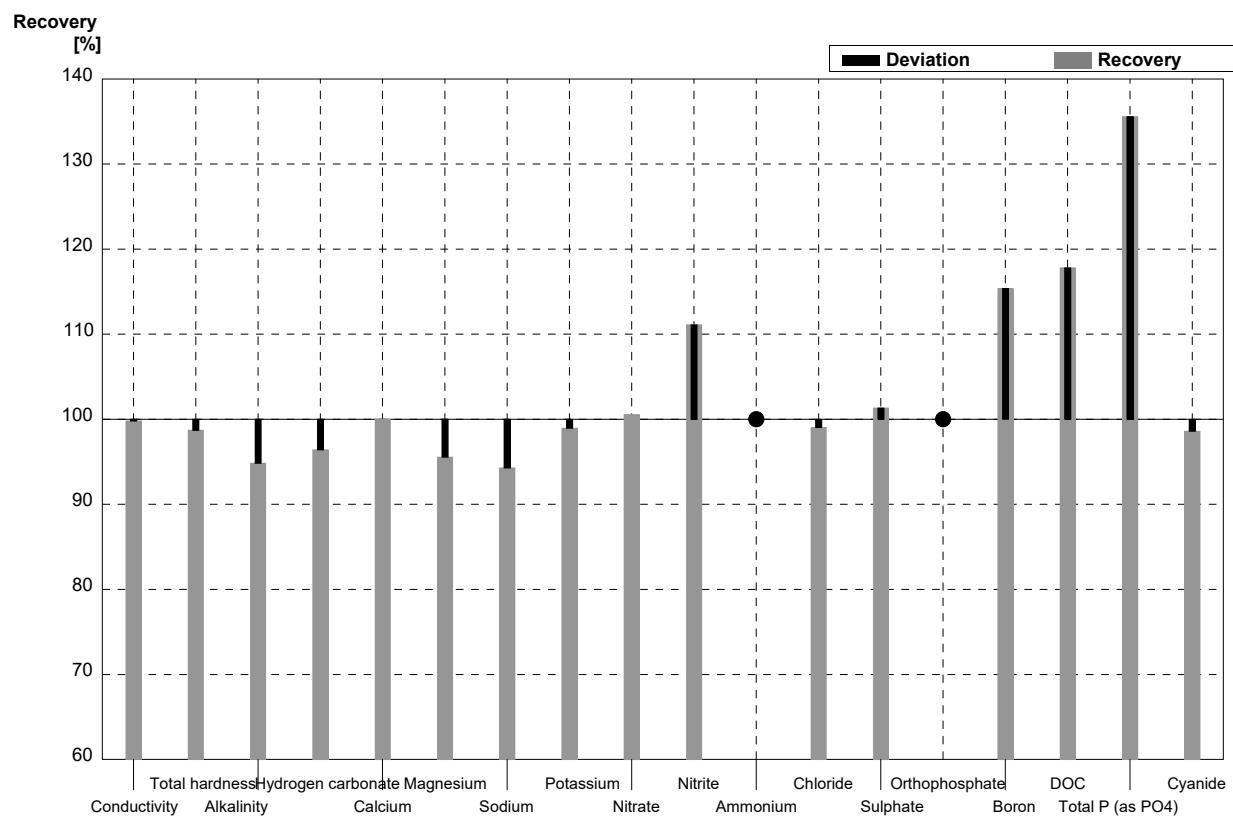
Laboratory AW

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2			µS/cm	
Total hardness	2,27	0,01	2,23		mmol/l	98%
Alkalinity	1,25	0,01	1,24	0,06	mmol/l	99%
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	67,41	4,00	mg/l	97%
Magnesium	13,2	0,1	13,24	1,28	mg/l	100%
Sodium	11,4	0,2	11,48	0,37	mg/l	101%
Potassium	1,88	0,05	1,903	0,10	mg/l	101%
Nitrate	73,1	0,4			mg/l	
Nitrite	0,071	0,002			mg/l	
Ammonium	0,075	0,005			mg/l	
Chloride	57,2	0,3	58,6	4,22	mg/l	102%
Sulphate	50,4	0,3	51,3	4,00	mg/l	102%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,112	0,001	0,103	0,01	mg/l	92%
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009		<0,01		mg/l	•
Cyanide	0,032	0,002			mg/l	



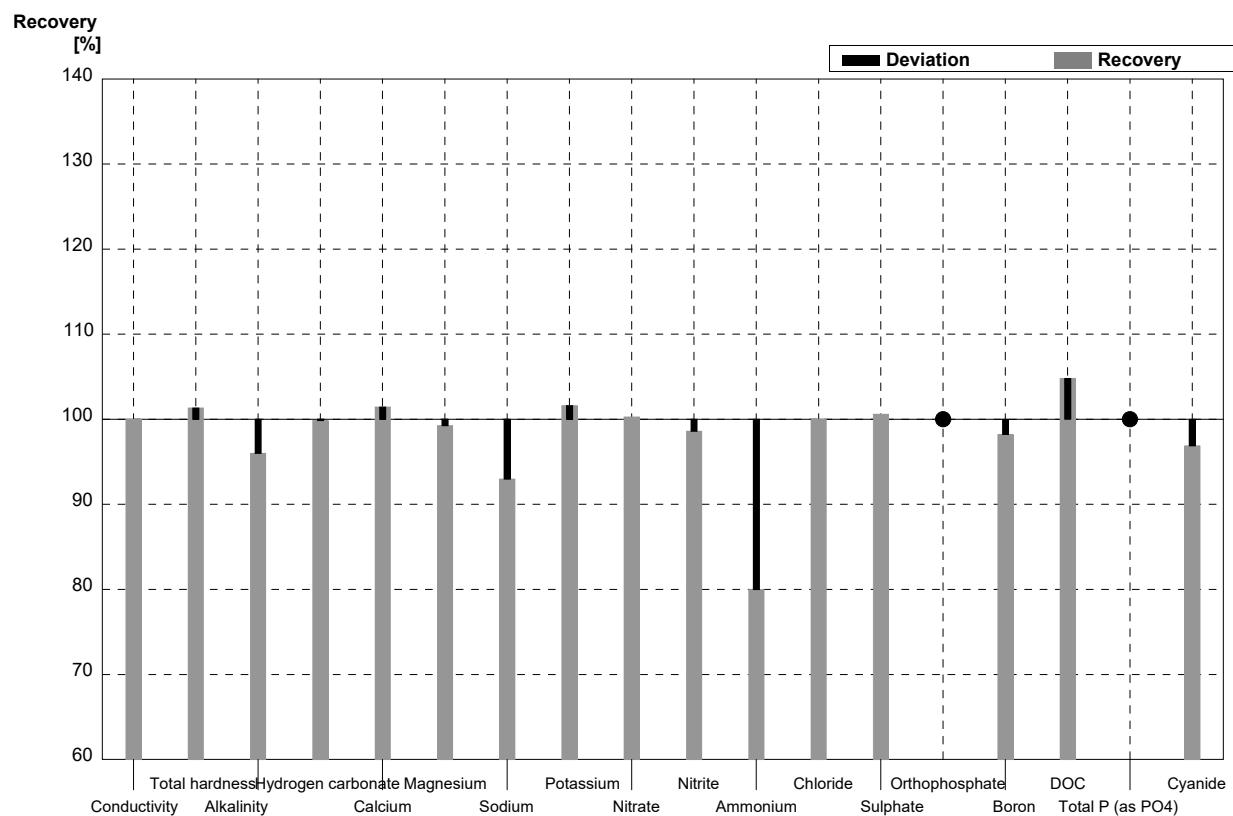
Sample N148A
Laboratory AX

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	486	25	µS/cm	100%
Total hardness	1,55	0,02	1,53	0,15	mmol/l	99%
Alkalinity	3,48	0,03	3,3	0,3	mmol/l	95%
Hydrogen carbonate	209	2	201,5	20	mg/l	96%
Calcium	49,7	0,6	49,7	2,5	mg/l	100%
Magnesium	7,41	0,07	7,08	0,4	mg/l	96%
Sodium	38,6	0,4	36,4	1,8	mg/l	94%
Potassium	7,66	0,05	7,58	0,4	mg/l	99%
Nitrate	36,4	0,2	36,6	2	mg/l	101%
Nitrite	0,036	0,001	0,04	0,005	mg/l	111%
Ammonium	<0,01		<0,02		mg/l	•
Chloride	21,1	0,1	20,9	1	mg/l	99%
Sulphate	14,9	0,1	15,1	1	mg/l	101%
Orthophosphate	0,055	0,003	<0,15		mg/l	•
Boron	0,052	0,001	0,06	0,012	mg/l	115%
DOC	3,65	0,05	4,3	0,2	mg/l	118%
Total P (as PO ₄)	0,118	0,003	0,16	0,02	mg/l	136%
Cyanide	0,072	0,002	0,071	0,014	mg/l	99%



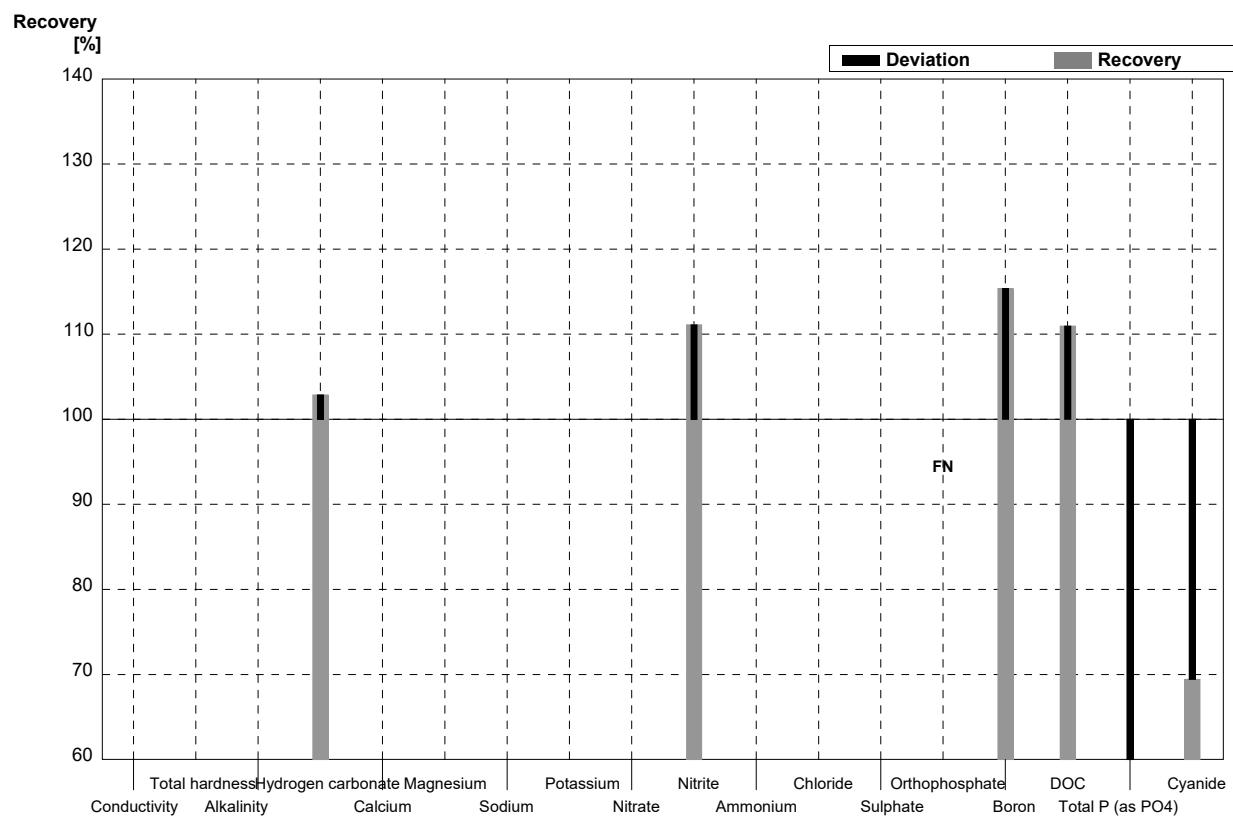
Sample N148B
Laboratory AX

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	551	2	551	27	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,27	0,01	2,3	0,23	mmol/l	101%
Alkalinity	1,25	0,01	1,2	0,1	mmol/l	96%
Hydrogen carbonate	73,4	0,9	73,3	7	mg/l	100%
Calcium	69,3	0,4	70,3	3,5	mg/l	101%
Magnesium	13,2	0,1	13,1	0,7	mg/l	99%
Sodium	11,4	0,2	10,6	0,5	mg/l	93%
Potassium	1,88	0,05	1,91	0,1	mg/l	102%
Nitrate	73,1	0,4	73,3	4	mg/l	100%
Nitrite	0,071	0,002	0,07	0,007	mg/l	99%
Ammonium	0,075	0,005	0,06	0,01	mg/l	80%
Chloride	57,2	0,3	57,2	3	mg/l	100%
Sulphate	50,4	0,3	50,7	3	mg/l	101%
Orthophosphate	<0,009		<0,15		mg/l	•
Boron	0,112	0,001	0,11	0,02	mg/l	98%
DOC	4,58	0,05	4,8	0,2	mg/l	105%
Total P (as PO ₄)	<0,009		<0,15		mg/l	•
Cyanide	0,032	0,002	0,031	0,006	mg/l	97%



Sample N148A
Laboratory AY

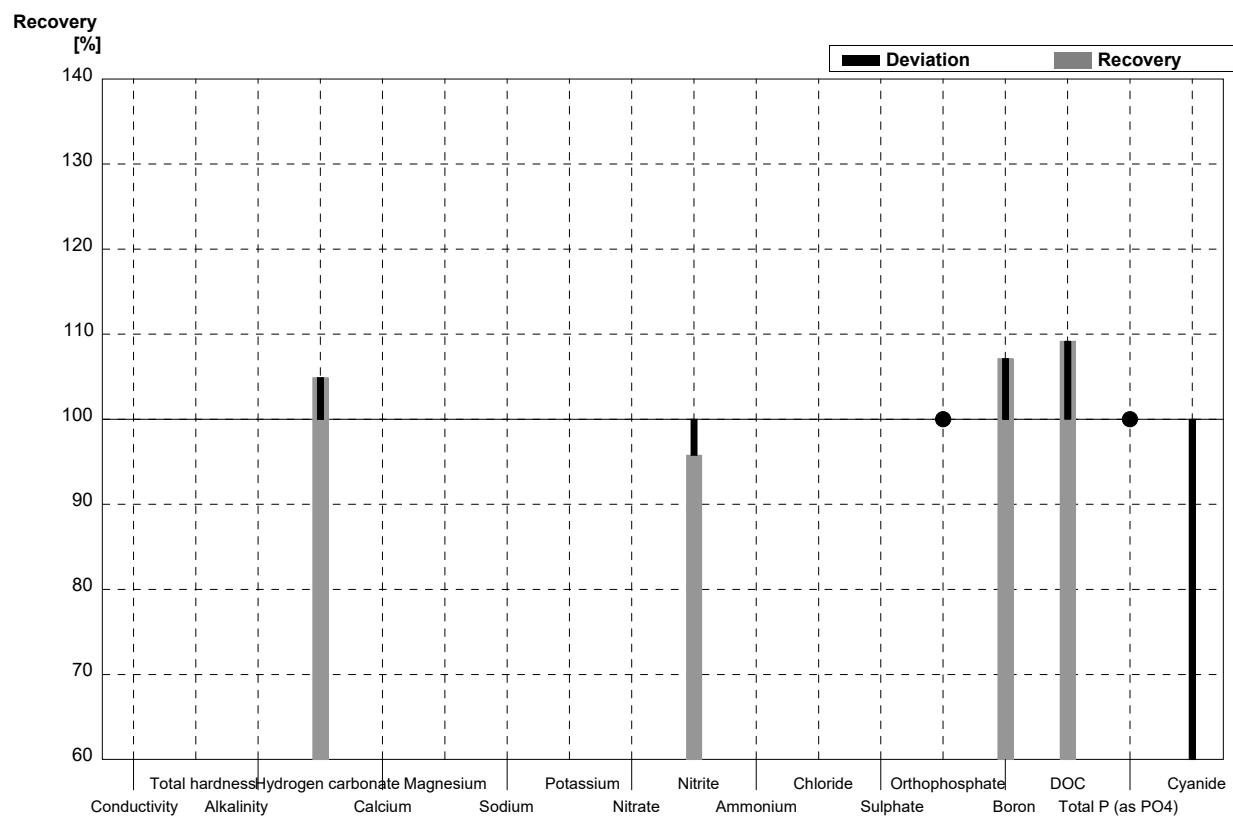
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2			µS/cm	
Total hardness	1,55	0,02			mmol/l	
Alkalinity	3,48	0,03			mmol/l	
Hydrogen carbonate	209	2	215		mg/l	103%
Calcium	49,7	0,6			mg/l	
Magnesium	7,41	0,07			mg/l	
Sodium	38,6	0,4			mg/l	
Potassium	7,66	0,05			mg/l	
Nitrate	36,4	0,2			mg/l	
Nitrite	0,036	0,001	0,04		mg/l	111%
Ammonium	<0,01				mg/l	
Chloride	21,1	0,1			mg/l	
Sulphate	14,9	0,1			mg/l	
Orthophosphate	0,055	0,003	<0,05		mg/l	FN
Boron	0,052	0,001	0,06		mg/l	115%
DOC	3,65	0,05	4,05		mg/l	111%
Total P (as PO ₄)	0,118	0,003	0,05		mg/l	42%
Cyanide	0,072	0,002	0,05		mg/l	69%



Sample N148B

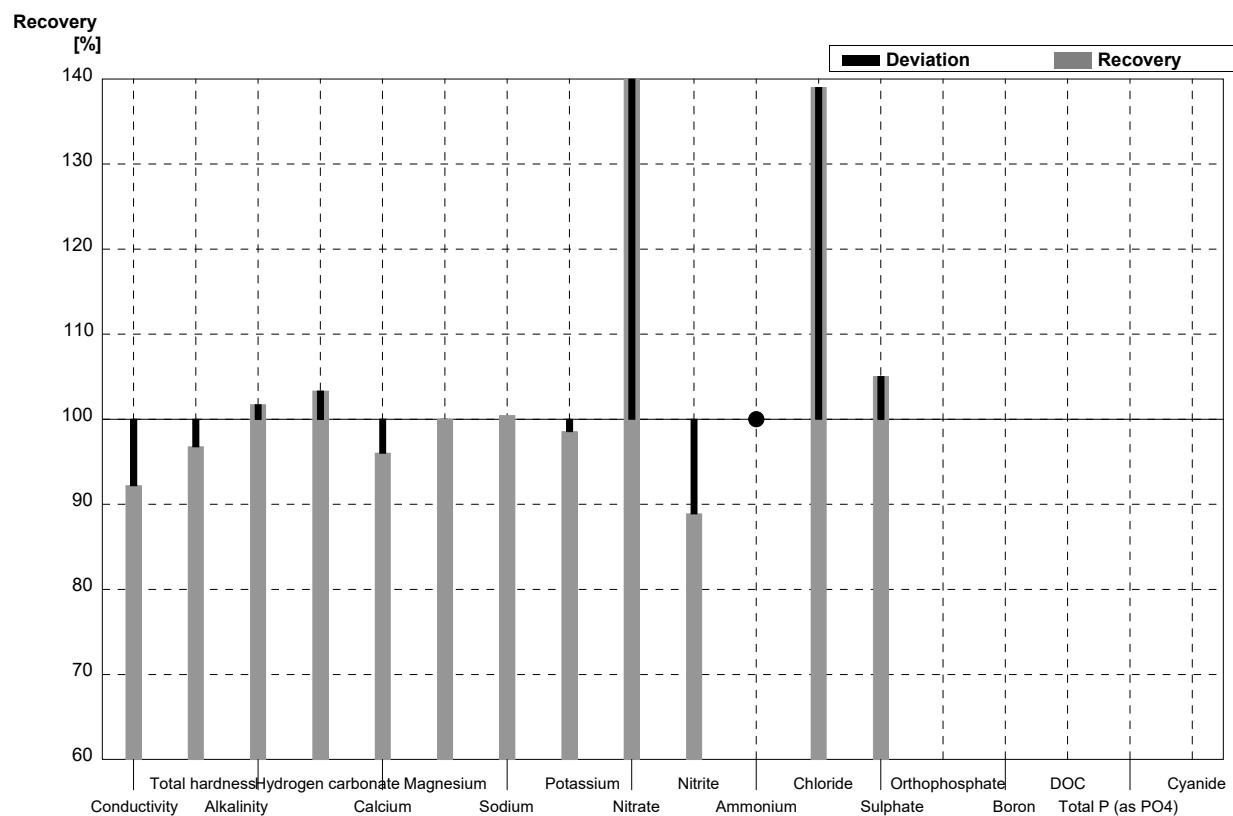
Laboratory AY

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2			µS/cm	
Total hardness	2,27	0,01			mmol/l	
Alkalinity	1,25	0,01			mmol/l	
Hydrogen carbonate	73,4	0,9	77		mg/l	105%
Calcium	69,3	0,4			mg/l	
Magnesium	13,2	0,1			mg/l	
Sodium	11,4	0,2			mg/l	
Potassium	1,88	0,05			mg/l	
Nitrate	73,1	0,4			mg/l	
Nitrite	0,071	0,002	0,068		mg/l	96%
Ammonium	0,075	0,005			mg/l	
Chloride	57,2	0,3			mg/l	
Sulphate	50,4	0,3			mg/l	
Orthophosphate	<0,009		<0,05		mg/l	•
Boron	0,112	0,001	0,12		mg/l	107%
DOC	4,58	0,05	5,0		mg/l	109%
Total P (as PO ₄)	<0,009		<0,05		mg/l	•
Cyanide	0,032	0,002	0,016		mg/l	50%



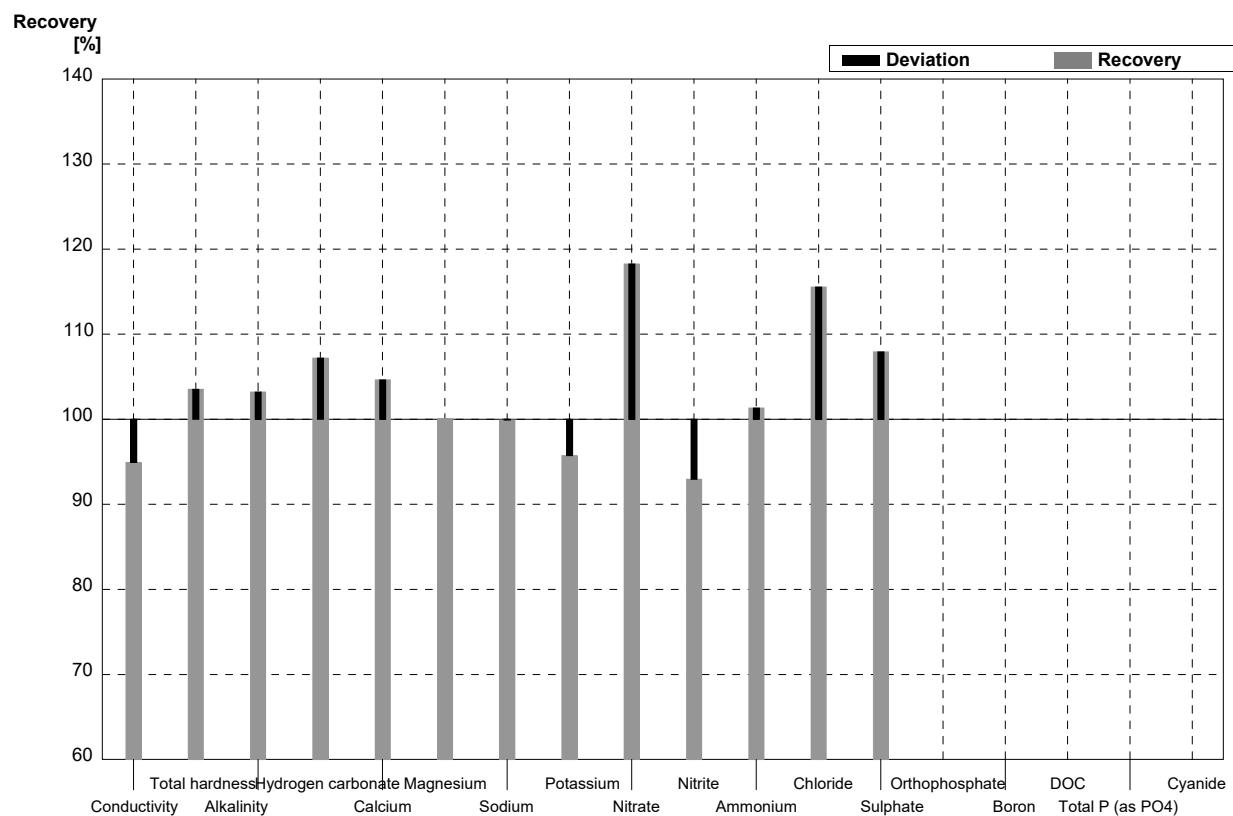
Sample N148A
Laboratory AZ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	449		µS/cm	92%
Total hardness	1,55	0,02	1,50		mmol/l	97%
Alkalinity	3,48	0,03	3,54		mmol/l	102%
Hydrogen carbonate	209	2	215,94		mg/l	103%
Calcium	49,7	0,6	47,72	0,464	mg/l	96%
Magnesium	7,41	0,07	7,41	0,183	mg/l	100%
Sodium	38,6	0,4	38,77	0,545	mg/l	100%
Potassium	7,66	0,05	7,55	0,187	mg/l	99%
Nitrate	36,4	0,2	51,48	2,269	mg/l	141%
Nitrite	0,036	0,001	0,032		mg/l	89%
Ammonium	<0,01		<0,05		mg/l	•
Chloride	21,1	0,1	29,33	1,521	mg/l	139%
Sulphate	14,9	0,1	15,65	0,181	mg/l	105%
Orthophosphate	0,055	0,003			mg/l	
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



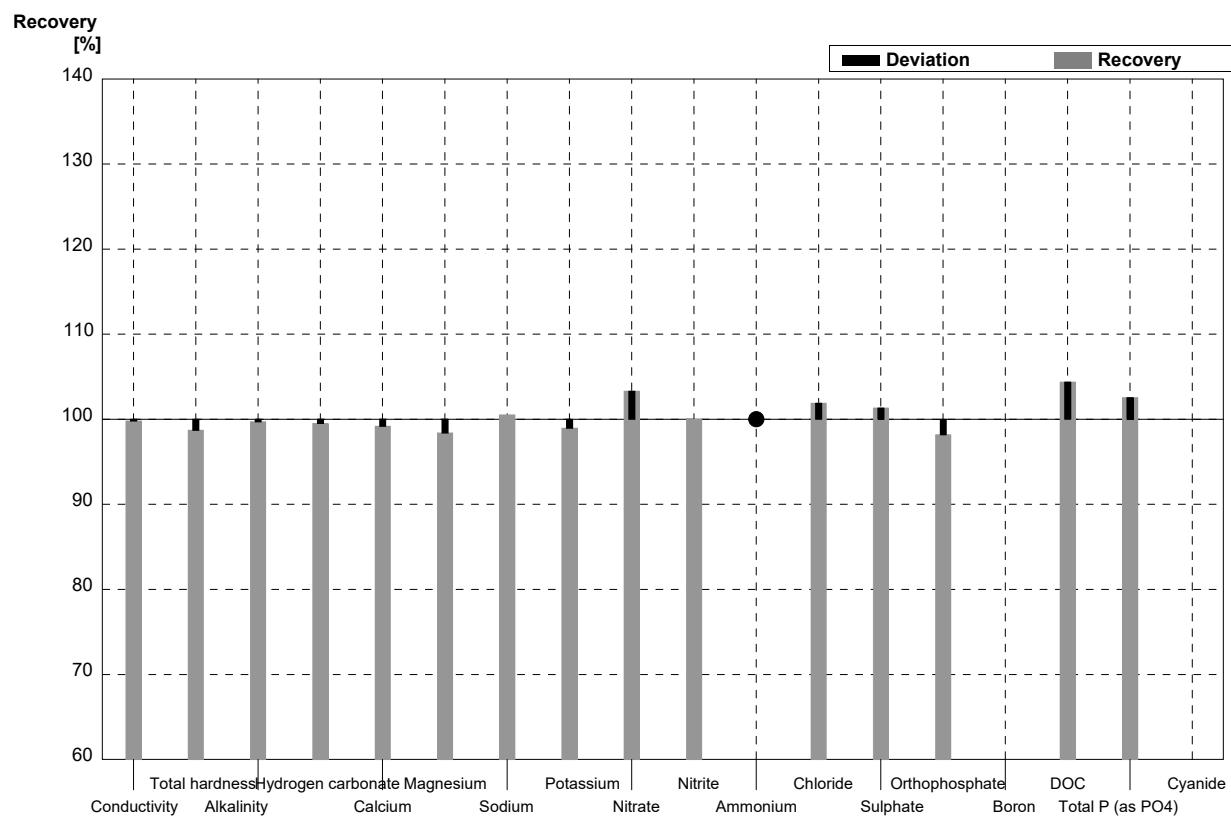
Sample N148B
Laboratory AZ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	523		µS/cm	95%
Total hardness	2,27	0,01	2,35		mmol/l	104%
Alkalinity	1,25	0,01	1,29		mmol/l	103%
Hydrogen carbonate	73,4	0,9	78,69		mg/l	107%
Calcium	69,3	0,4	72,52	1,531	mg/l	105%
Magnesium	13,2	0,1	13,21	0,364	mg/l	100%
Sodium	11,4	0,2	11,39	0,144	mg/l	100%
Potassium	1,88	0,05	1,80	0,078	mg/l	96%
Nitrate	73,1	0,4	86,44	3,036	mg/l	118%
Nitrite	0,071	0,002	0,066		mg/l	93%
Ammonium	0,075	0,005	0,076	0,02	mg/l	101%
Chloride	57,2	0,3	66,10	3,036	mg/l	116%
Sulphate	50,4	0,3	54,40	2,955	mg/l	108%
Orthophosphate	<0,009				mg/l	
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory BA

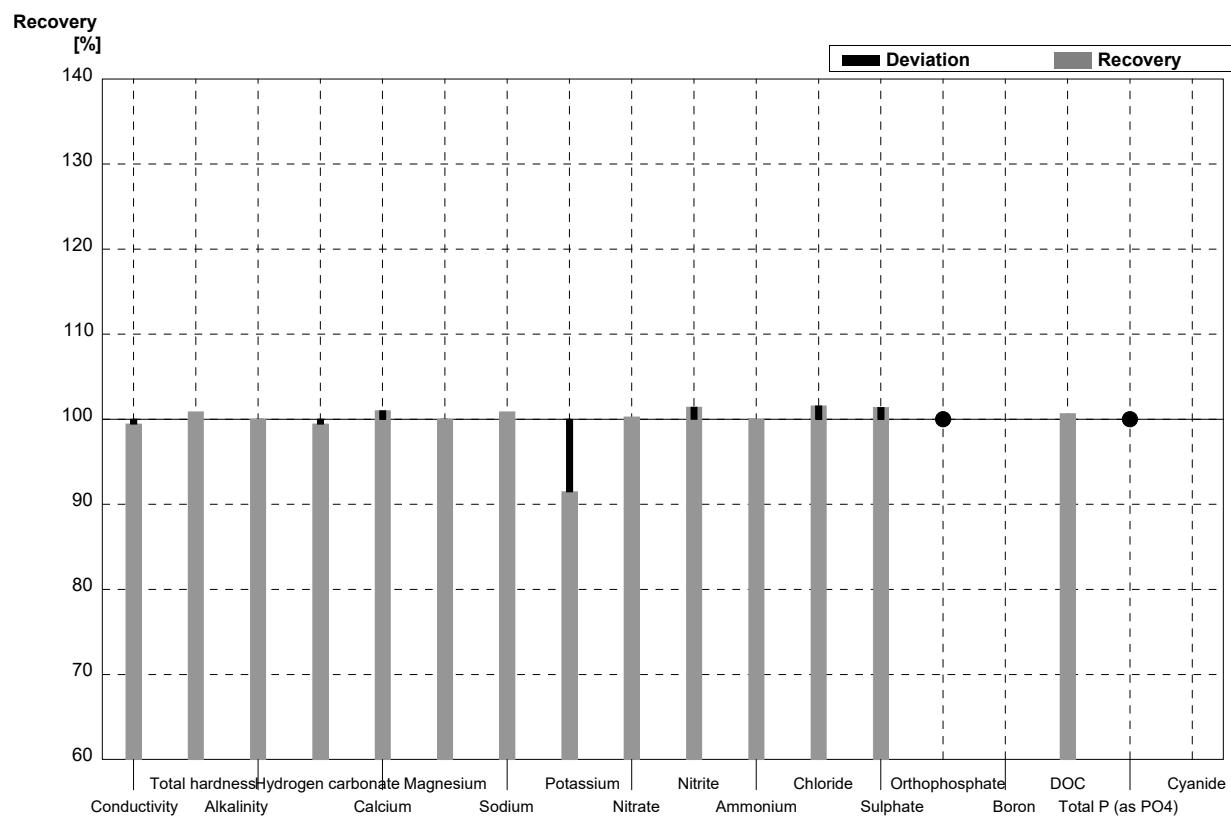
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	486	20	µS/cm	100%
Total hardness	1,55	0,02	1,53	0,1	mmol/l	99%
Alkalinity	3,48	0,03	3,47	0,2	mmol/l	100%
Hydrogen carbonate	209	2	208	9	mg/l	100%
Calcium	49,7	0,6	49,3	4	mg/l	99%
Magnesium	7,41	0,07	7,29	0,9	mg/l	98%
Sodium	38,6	0,4	38,8	6	mg/l	101%
Potassium	7,66	0,05	7,58	1	mg/l	99%
Nitrate	36,4	0,2	37,6	3	mg/l	103%
Nitrite	0,036	0,001	0,036	0,003	mg/l	100%
Ammonium	<0,01		<0,013		mg/l	•
Chloride	21,1	0,1	21,5	2	mg/l	102%
Sulphate	14,9	0,1	15,1	1	mg/l	101%
Orthophosphate	0,055	0,003	0,054	0,007	mg/l	98%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05	3,81	0,6	mg/l	104%
Total P (as PO ₄)	0,118	0,003	0,121	0,02	mg/l	103%
Cyanide	0,072	0,002			mg/l	



Sample N148B

Laboratory BA

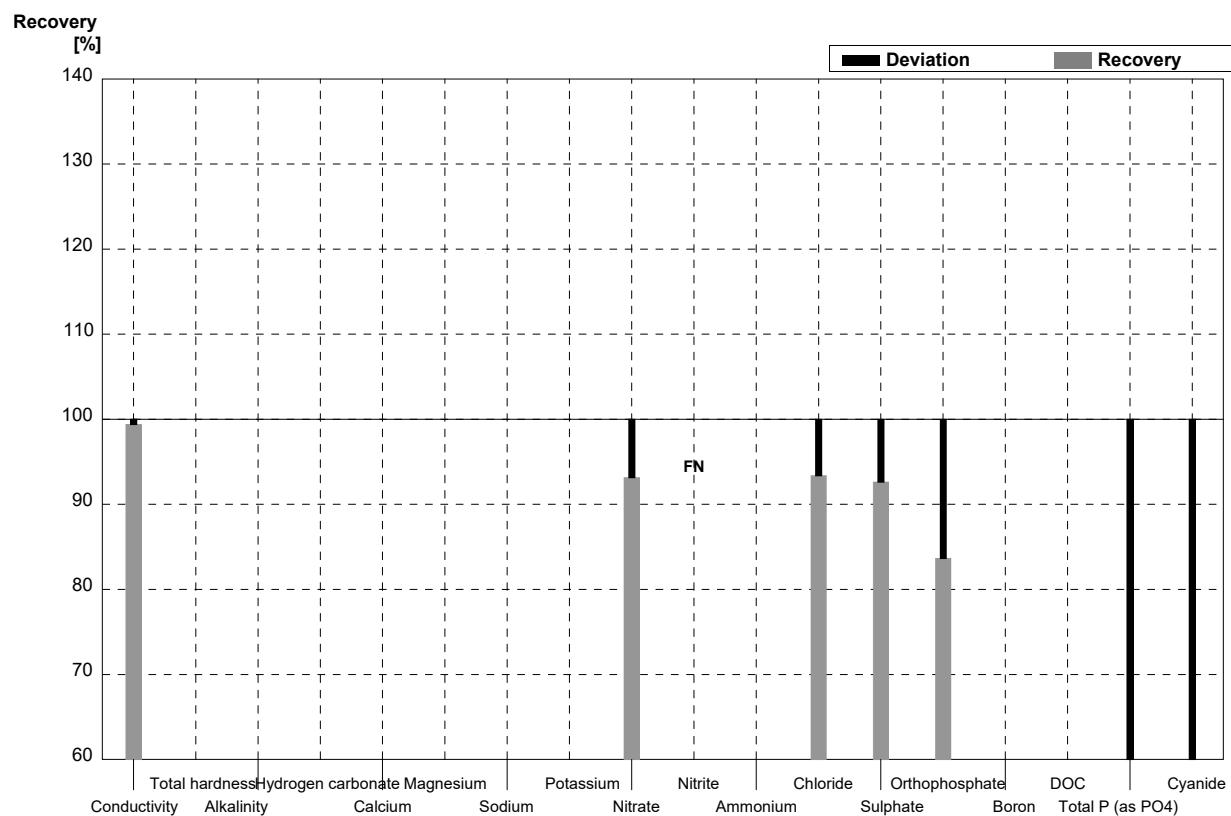
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	548	22	µS/cm	99%
Total hardness	2,27	0,01	2,29	0,1	mmol/l	101%
Alkalinity	1,25	0,01	1,25	0,1	mmol/l	100%
Hydrogen carbonate	73,4	0,9	73,0	3	mg/l	99%
Calcium	69,3	0,4	70,0	6	mg/l	101%
Magnesium	13,2	0,1	13,2	1,6	mg/l	100%
Sodium	11,4	0,2	11,5	1,8	mg/l	101%
Potassium	1,88	0,05	1,72	0,3	mg/l	91%
Nitrate	73,1	0,4	73,3	6	mg/l	100%
Nitrite	0,071	0,002	0,072	0,006	mg/l	101%
Ammonium	0,075	0,005	0,075	0,01	mg/l	100%
Chloride	57,2	0,3	58,1	5	mg/l	102%
Sulphate	50,4	0,3	51,1	4	mg/l	101%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05	4,61	0,7	mg/l	101%
Total P (as PO ₄)	<0,009		<0,013		mg/l	•
Cyanide	0,032	0,002			mg/l	



Sample N148A

Laboratory BB

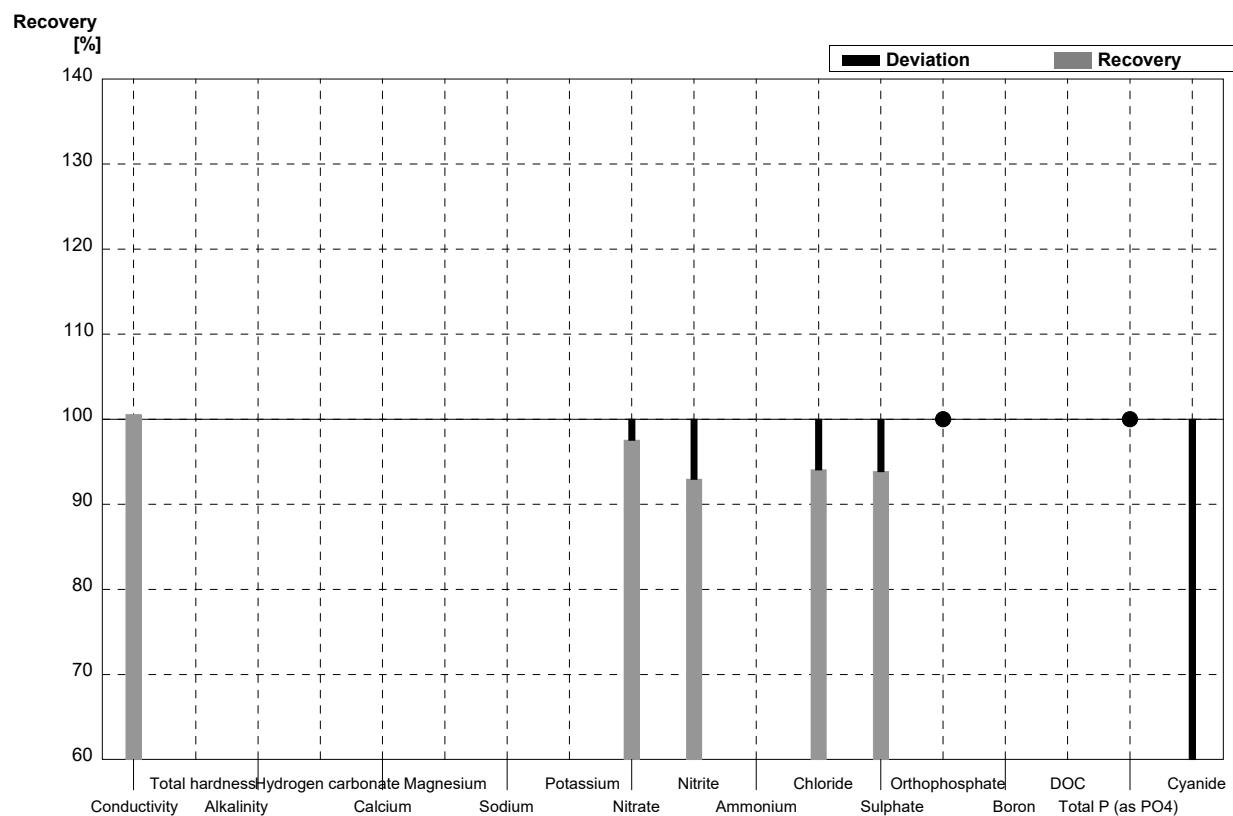
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	484	5,0	µS/cm	99%
Total hardness	1,55	0,02			mmol/l	
Alkalinity	3,48	0,03			mmol/l	
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6			mg/l	
Magnesium	7,41	0,07			mg/l	
Sodium	38,6	0,4			mg/l	
Potassium	7,66	0,05			mg/l	
Nitrate	36,4	0,2	33,9	0,55	mg/l	93%
Nitrite	0,036	0,001	<0,01		mg/l	FN
Ammonium	<0,01				mg/l	
Chloride	21,1	0,1	19,7	0,35	mg/l	93%
Sulphate	14,9	0,1	13,8	0,34	mg/l	93%
Orthophosphate	0,055	0,003	0,046	0,004	mg/l	84%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003	0,044	0,03	mg/l	37%
Cyanide	0,072	0,002	0,037	0,004	mg/l	51%



Sample N148B

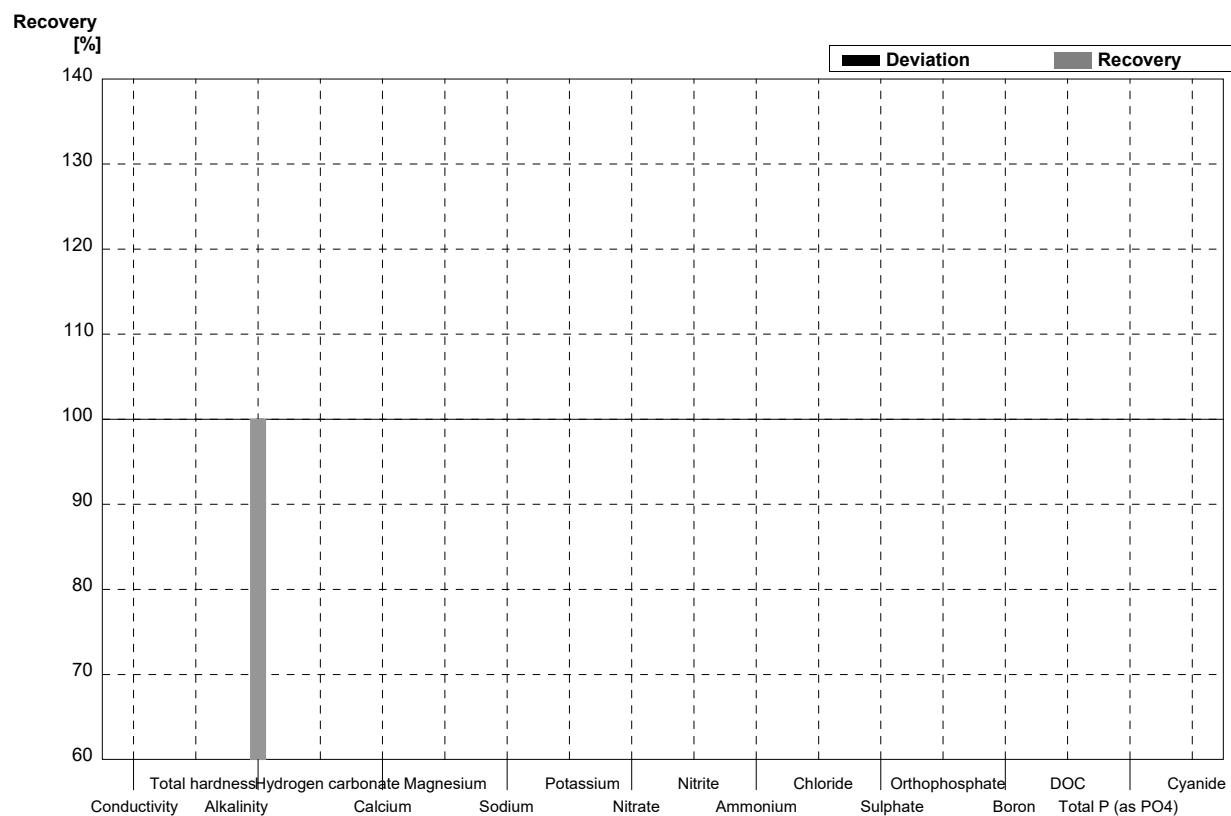
Laboratory BB

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	554	3,8	µS/cm	101%
Total hardness	2,27	0,01			mmol/l	
Alkalinity	1,25	0,01			mmol/l	
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4			mg/l	
Magnesium	13,2	0,1			mg/l	
Sodium	11,4	0,2			mg/l	
Potassium	1,88	0,05			mg/l	
Nitrate	73,1	0,4	71,3	0,91	mg/l	98%
Nitrite	0,071	0,002	0,066	0,004	mg/l	93%
Ammonium	0,075	0,005			mg/l	
Chloride	57,2	0,3	53,8	0,97	mg/l	94%
Sulphate	50,4	0,3	47,3	1,27	mg/l	94%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009		<0,015		mg/l	•
Cyanide	0,032	0,002	0,017	0,004	mg/l	53%



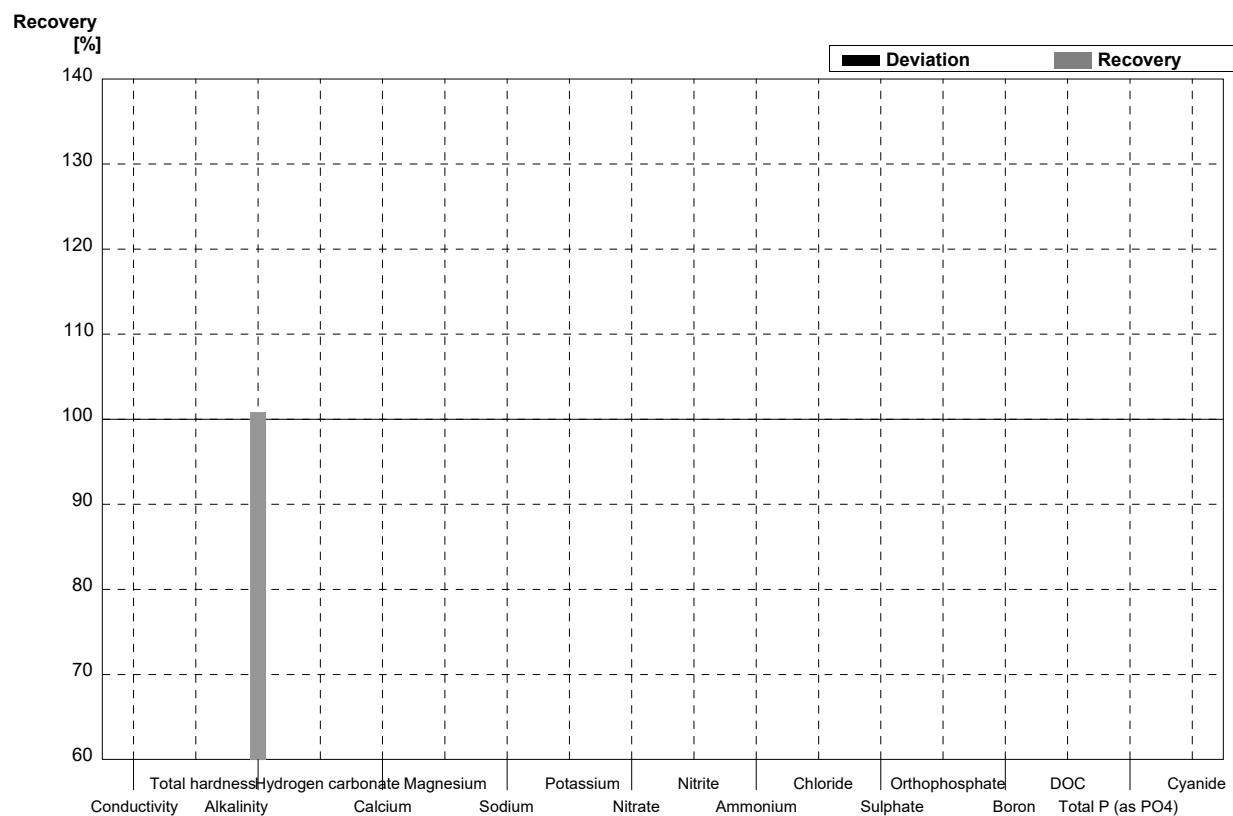
Sample N148A
Laboratory BC

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2			µS/cm	
Total hardness	1,55	0,02			mmol/l	
Alkalinity	3,48	0,03	3,48	0,34	mmol/l	100%
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6			mg/l	
Magnesium	7,41	0,07			mg/l	
Sodium	38,6	0,4			mg/l	
Potassium	7,66	0,05			mg/l	
Nitrate	36,4	0,2			mg/l	
Nitrite	0,036	0,001			mg/l	
Ammonium	<0,01				mg/l	
Chloride	21,1	0,1			mg/l	
Sulphate	14,9	0,1			mg/l	
Orthophosphate	0,055	0,003			mg/l	
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



Sample N148B
Laboratory BC

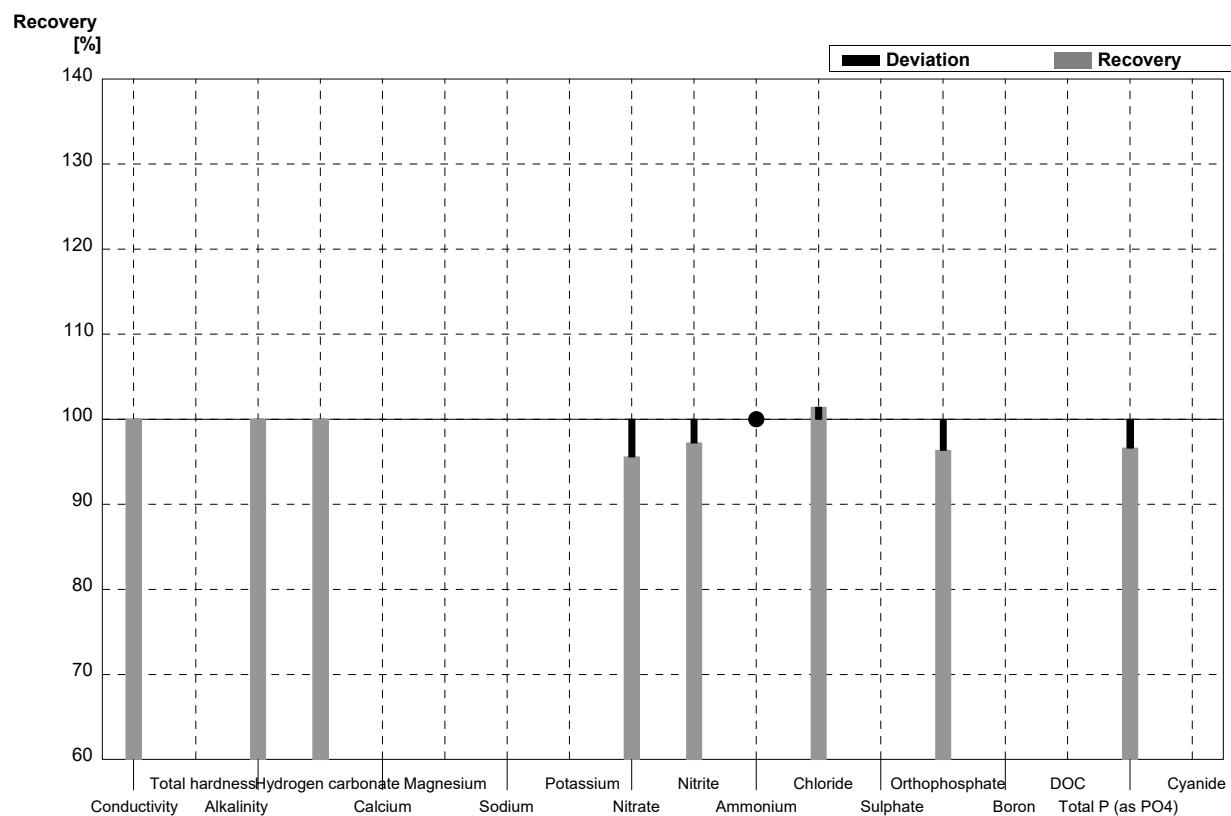
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2			µS/cm	
Total hardness	2,27	0,01			mmol/l	
Alkalinity	1,25	0,01	1,26	0,12	mmol/l	101%
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4			mg/l	
Magnesium	13,2	0,1			mg/l	
Sodium	11,4	0,2			mg/l	
Potassium	1,88	0,05			mg/l	
Nitrate	73,1	0,4			mg/l	
Nitrite	0,071	0,002			mg/l	
Ammonium	0,075	0,005			mg/l	
Chloride	57,2	0,3			mg/l	
Sulphate	50,4	0,3			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



Sample N148A

Laboratory BD

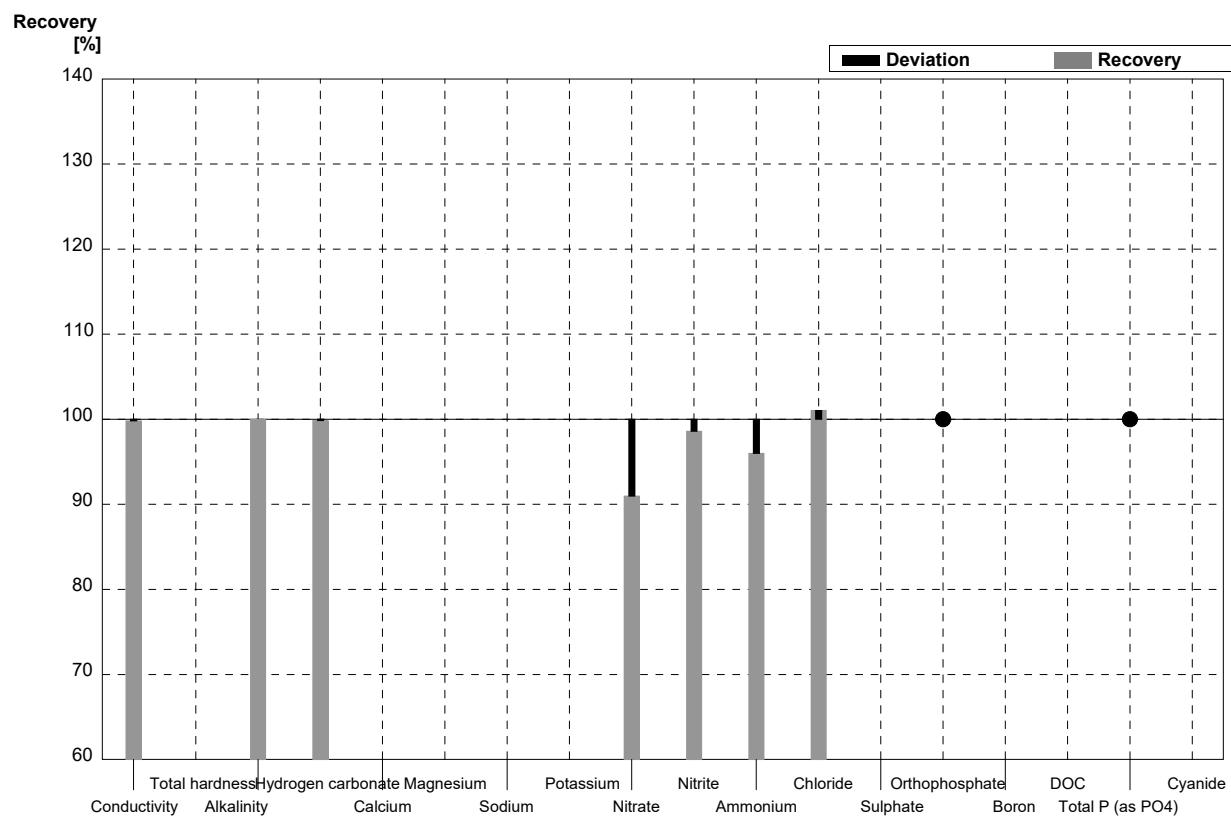
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	487		µS/cm	100%
Total hardness	1,55	0,02			mmol/l	
Alkalinity	3,48	0,03	3,48		mmol/l	100%
Hydrogen carbonate	209	2	209		mg/l	100%
Calcium	49,7	0,6			mg/l	
Magnesium	7,41	0,07			mg/l	
Sodium	38,6	0,4			mg/l	
Potassium	7,66	0,05			mg/l	
Nitrate	36,4	0,2	34,8		mg/l	96%
Nitrite	0,036	0,001	0,035		mg/l	97%
Ammonium	<0,01		0,005		mg/l	•
Chloride	21,1	0,1	21,4		mg/l	101%
Sulphate	14,9	0,1			mg/l	
Orthophosphate	0,055	0,003	0,053		mg/l	96%
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003	0,114		mg/l	97%
Cyanide	0,072	0,002			mg/l	



Sample N148B

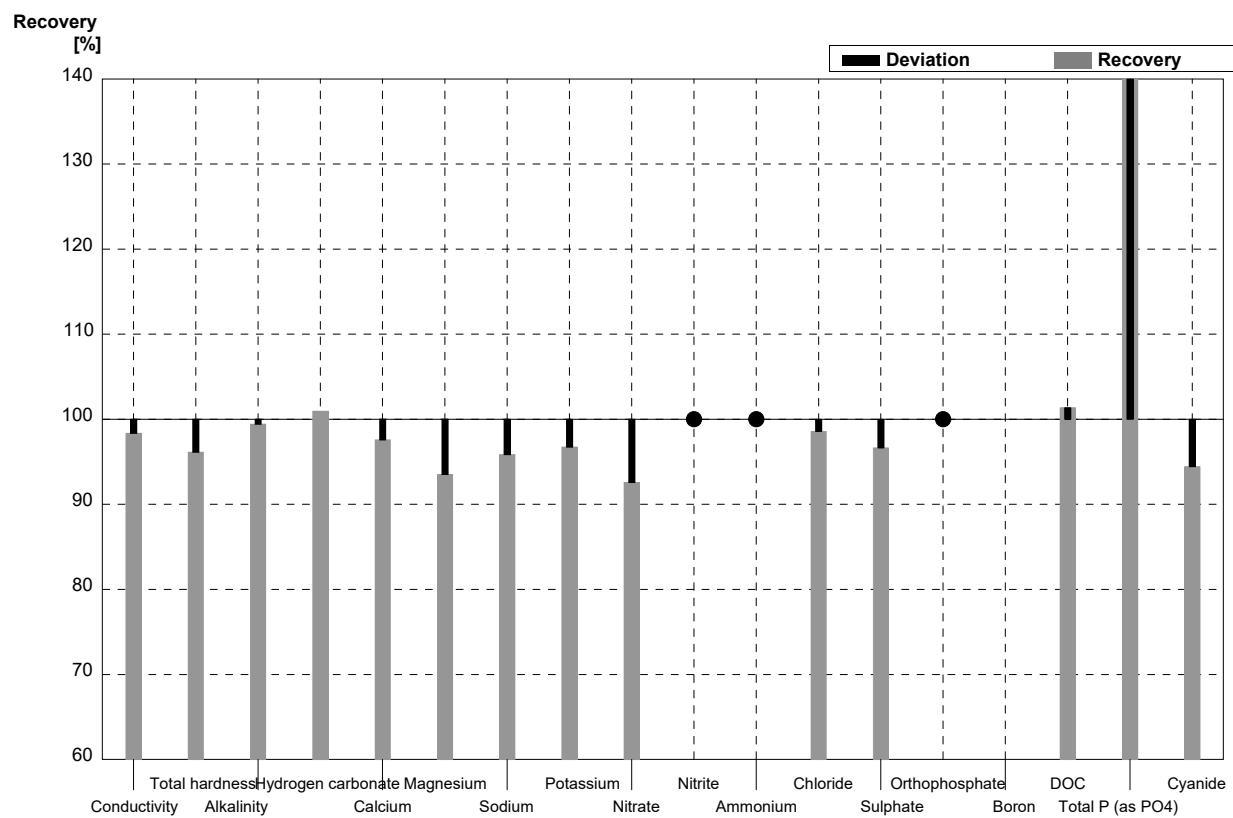
Laboratory BD

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	550		µS/cm	100%
Total hardness	2,27	0,01			mmol/l	
Alkalinity	1,25	0,01	1,25		mmol/l	100%
Hydrogen carbonate	73,4	0,9	73,3		mg/l	100%
Calcium	69,3	0,4			mg/l	
Magnesium	13,2	0,1			mg/l	
Sodium	11,4	0,2			mg/l	
Potassium	1,88	0,05			mg/l	
Nitrate	73,1	0,4	66,5		mg/l	91%
Nitrite	0,071	0,002	0,070		mg/l	99%
Ammonium	0,075	0,005	0,072		mg/l	96%
Chloride	57,2	0,3	57,8		mg/l	101%
Sulphate	50,4	0,3			mg/l	
Orthophosphate	<0,009		<0,006		mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO4)	<0,009		<0,006		mg/l	•
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory BE

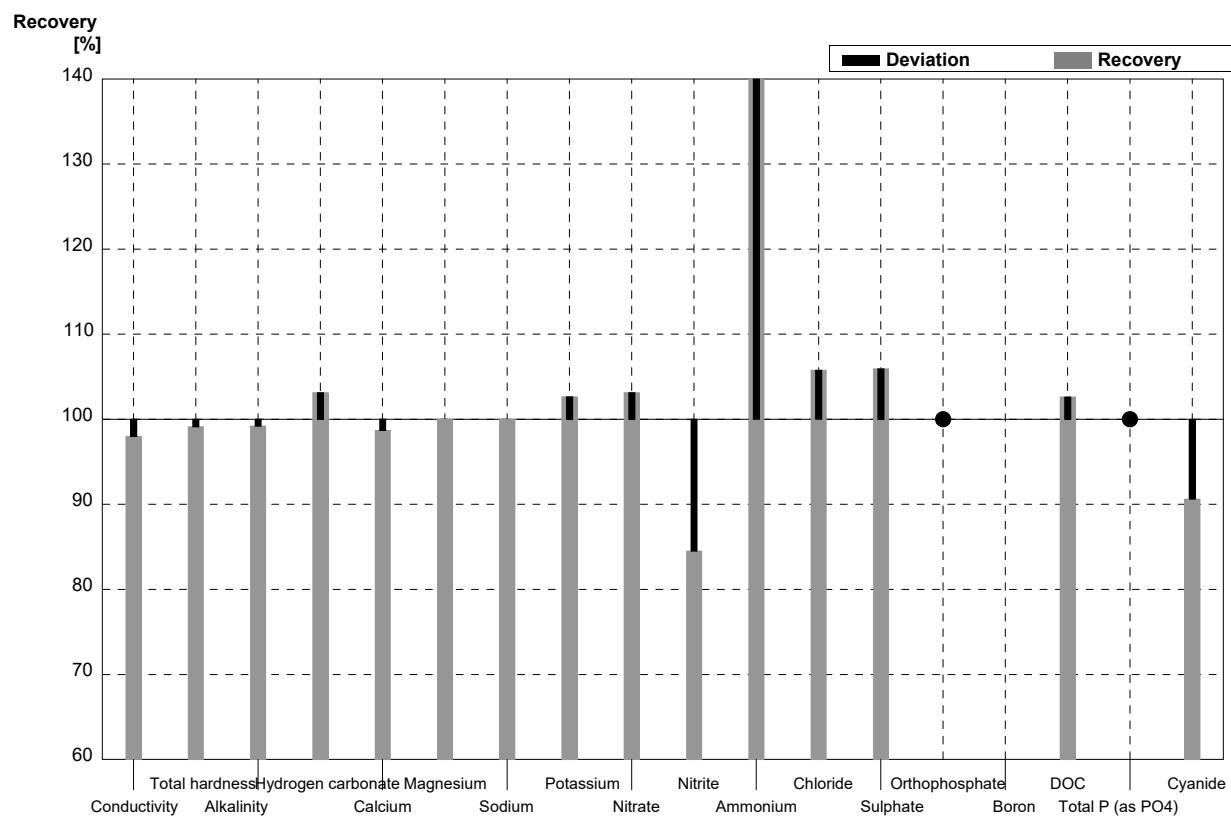
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	479	2	µS/cm	98%
Total hardness	1,55	0,02	1,49	0,03	mmol/l	96%
Alkalinity	3,48	0,03	3,46	0,04	mmol/l	99%
Hydrogen carbonate	209	2	211	2,4	mg/l	101%
Calcium	49,7	0,6	48,5	0,2	mg/l	98%
Magnesium	7,41	0,07	6,93	0,03	mg/l	94%
Sodium	38,6	0,4	37	0,4	mg/l	96%
Potassium	7,66	0,05	7,41	0,04	mg/l	97%
Nitrate	36,4	0,2	33,7	2,7	mg/l	93%
Nitrite	0,036	0,001	<0,05		mg/l	•
Ammonium	<0,01		<0,04		mg/l	•
Chloride	21,1	0,1	20,8	1,5	mg/l	99%
Sulphate	14,9	0,1	14,4	1,4	mg/l	97%
Orthophosphate	0,055	0,003	<1,0		mg/l	•
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05	3,7	0,3	mg/l	101%
Total P (as PO ₄)	0,118	0,003	0,17	0,01	mg/l	144%
Cyanide	0,072	0,002	0,068	0,002	mg/l	94%



Sample N148B

Laboratory BE

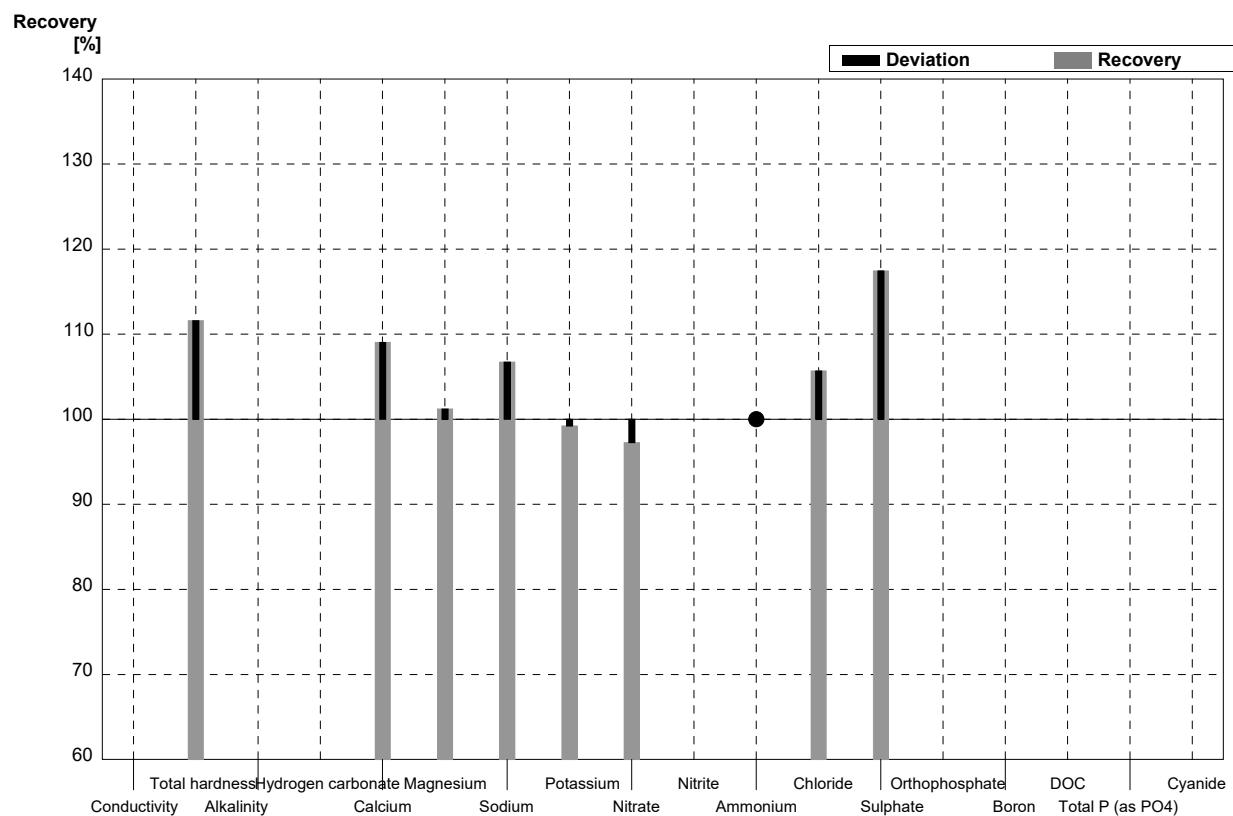
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	540	1	µS/cm	98%
Total hardness	2,27	0,01	2,25	0,03	mmol/l	99%
Alkalinity	1,25	0,01	1,24	0,03	mmol/l	99%
Hydrogen carbonate	73,4	0,9	75,7	2	mg/l	103%
Calcium	69,3	0,4	68,4	0,4	mg/l	99%
Magnesium	13,2	0,1	13,2	0,05	mg/l	100%
Sodium	11,4	0,2	11,4	0,1	mg/l	100%
Potassium	1,88	0,05	1,93	0,01	mg/l	103%
Nitrate	73,1	0,4	75,4	6,1	mg/l	103%
Nitrite	0,071	0,002	0,06	0,01	mg/l	85%
Ammonium	0,075	0,005	0,11	0,001	mg/l	147%
Chloride	57,2	0,3	60,5	4,2	mg/l	106%
Sulphate	50,4	0,3	53,4	5,3	mg/l	106%
Orthophosphate	<0,009		<1,0		mg/l	•
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05	4,7	0,4	mg/l	103%
Total P (as PO ₄)	<0,009		<0,06		mg/l	•
Cyanide	0,032	0,002	0,029	0,002	mg/l	91%



Sample N148A

Laboratory BF

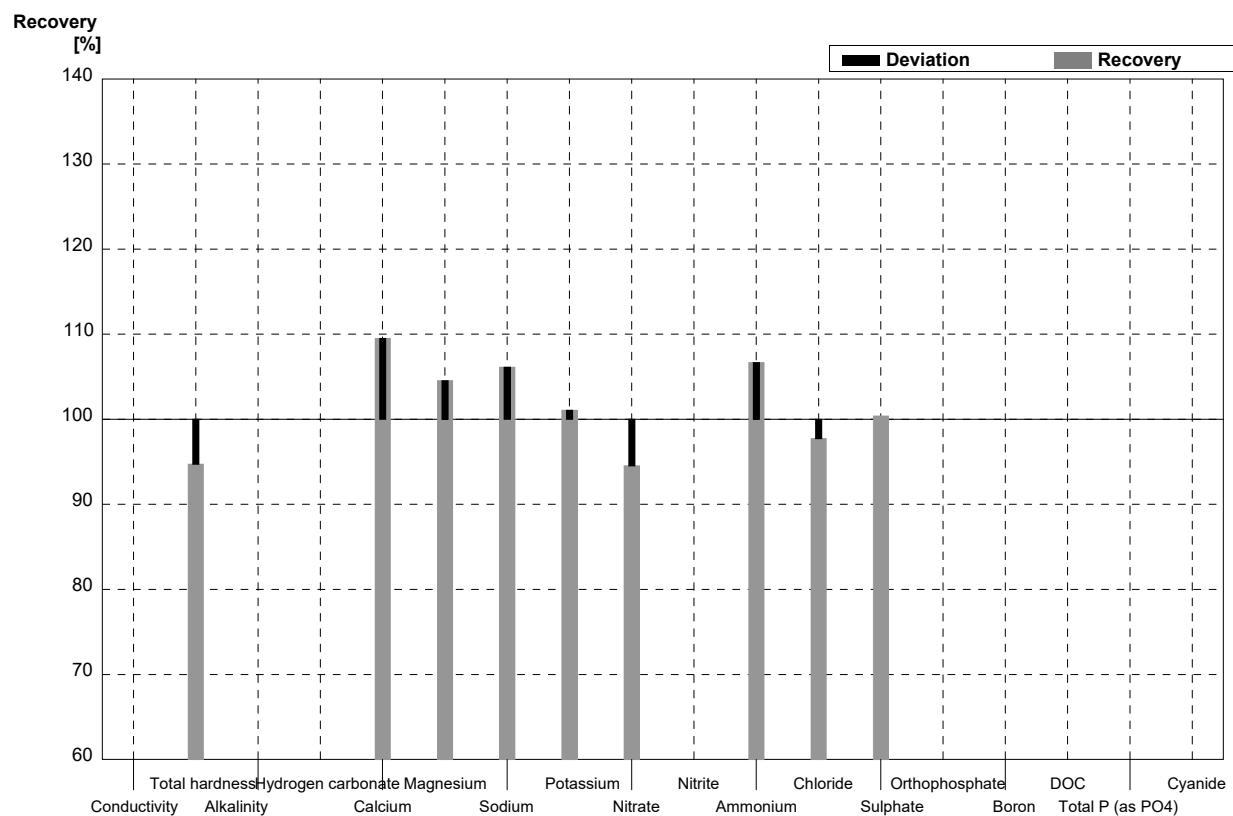
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2			µS/cm	
Total hardness	1,55	0,02	1,73		mmol/l	112%
Alkalinity	3,48	0,03			mmol/l	
Hydrogen carbonate	209	2			mg/l	
Calcium	49,7	0,6	54,2	4,9	mg/l	109%
Magnesium	7,41	0,07	7,5	0,7	mg/l	101%
Sodium	38,6	0,4	41,2	3,7	mg/l	107%
Potassium	7,66	0,05	7,6	0,5	mg/l	99%
Nitrate	36,4	0,2	35,4	6,4	mg/l	97%
Nitrite	0,036	0,001			mg/l	
Ammonium	<0,01		0,01	0,01	mg/l	•
Chloride	21,1	0,1	22,3	2,9	mg/l	106%
Sulphate	14,9	0,1	17,5	3,2	mg/l	117%
Orthophosphate	0,055	0,003			mg/l	
Boron	0,052	0,001			mg/l	
DOC	3,65	0,05			mg/l	
Total P (as PO ₄)	0,118	0,003			mg/l	
Cyanide	0,072	0,002			mg/l	



Sample N148B

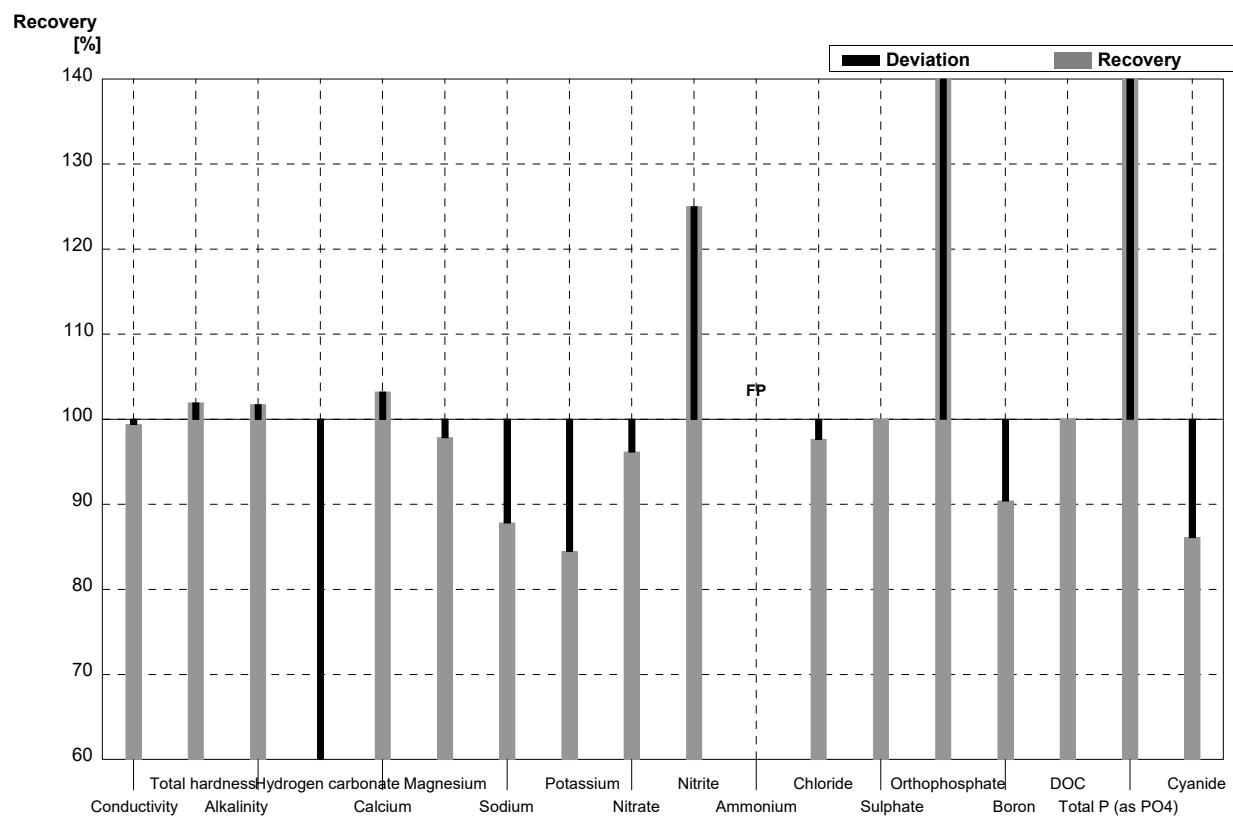
Laboratory BF

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2			µS/cm	
Total hardness	2,27	0,01	2,15		mmol/l	95%
Alkalinity	1,25	0,01			mmol/l	
Hydrogen carbonate	73,4	0,9			mg/l	
Calcium	69,3	0,4	75,9	6,8	mg/l	110%
Magnesium	13,2	0,1	13,8	1,2	mg/l	105%
Sodium	11,4	0,2	12,1	1,1	mg/l	106%
Potassium	1,88	0,05	1,9	0,1	mg/l	101%
Nitrate	73,1	0,4	69,1	12,4	mg/l	95%
Nitrite	0,071	0,002			mg/l	
Ammonium	0,075	0,005	0,08	0,01	mg/l	107%
Chloride	57,2	0,3	55,9	7,3	mg/l	98%
Sulphate	50,4	0,3	50,6	9,1	mg/l	100%
Orthophosphate	<0,009				mg/l	
Boron	0,112	0,001			mg/l	
DOC	4,58	0,05			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Cyanide	0,032	0,002			mg/l	



Sample N148A
Laboratory BG

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	487	2	484	10	µS/cm	99%
Total hardness	1,55	0,02	1,58	0,32	mmol/l	102%
Alkalinity	3,48	0,03	3,54	0,71	mmol/l	102%
Hydrogen carbonate	209	2	99,2	19,8	mg/l	47%
Calcium	49,7	0,6	51,3	10,3	mg/l	103%
Magnesium	7,41	0,07	7,25	1,45	mg/l	98%
Sodium	38,6	0,4	33,9	6,78	mg/l	88%
Potassium	7,66	0,05	6,47	1,29	mg/l	84%
Nitrate	36,4	0,2	35,0	7,0	mg/l	96%
Nitrite	0,036	0,001	0,045	0,009	mg/l	125%
Ammonium	<0,01		0,036	0,007	mg/l	FP
Chloride	21,1	0,1	20,6	4,1	mg/l	98%
Sulphate	14,9	0,1	14,9	3,0	mg/l	100%
Orthophosphate	0,055	0,003	0,119	0,024	mg/l	216%
Boron	0,052	0,001	0,047	0,009	mg/l	90%
DOC	3,65	0,05	3,65	0,73	mg/l	100%
Total P (as PO ₄)	0,118	0,003	0,196	0,039	mg/l	166%
Cyanide	0,072	0,002	0,062	0,012	mg/l	86%



Sample N148B
Laboratory BG

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	551	2	544	11	µS/cm	99%
Total hardness	2,27	0,01	2,33	0,47	mmol/l	103%
Alkalinity	1,25	0,01	1,43	0,29	mmol/l	114%
Hydrogen carbonate	73,4	0,9	40,0	8,00	mg/l	54%
Calcium	69,3	0,4	72,9	14,6	mg/l	105%
Magnesium	13,2	0,1	12,5	2,50	mg/l	95%
Sodium	11,4	0,2	9,33	1,87	mg/l	82%
Potassium	1,88	0,05	2,63	0,53	mg/l	140%
Nitrate	73,1	0,4	69,7	13,9	mg/l	95%
Nitrite	0,071	0,002	0,079	0,016	mg/l	111%
Ammonium	0,075	0,005	0,075	0,015	mg/l	100%
Chloride	57,2	0,3	57,0	11,4	mg/l	100%
Sulphate	50,4	0,3	54,5	10,9	mg/l	108%
Orthophosphate	<0,009		0,049	0,010	mg/l	FP
Boron	0,112	0,001	0,086	0,017	mg/l	77%
DOC	4,58	0,05	4,63	0,93	mg/l	101%
Total P (as PO ₄)	<0,009		0,052	0,010	mg/l	FP
Cyanide	0,032	0,002	0,024	0,005	mg/l	75%

