

# **IFA-Proficiency Testing Scheme for Water Analysis**

**Round N153  
Major Ions**

**Sample Dispatch: 31 August 2020**





**University of Natural Resources  
and Life Sciences, Vienna**

**Address:**

**University of Natural Resources  
and Life Sciences, Vienna**  
Department of Agrobiotechnology, IFA-Tulln  
Institute of Bioanalytics and Agro-Metabolomics  
Head: Prof. DI Dr. Rudolf Krska  
Konrad-Lorenz-Str. 20  
3430 Tulln  
Austria

**Website:**

[www.ifatest.eu](http://www.ifatest.eu)  
[www.ifa-tulln.boku.ac.at](http://www.ifa-tulln.boku.ac.at)

**Telephone/Fax:**

+43(0) 1 47654 - Ext  
+43(0) 1 47654 - 97309

**IFA-Proficiency Testing Scheme:**

Technical manager:

Dipl.-HTL-Ing. Andrea Koutnik      Ext 97306    [andrea.koutnik@boku.ac.at](mailto:andrea.koutnik@boku.ac.at)

Quality assurance representative:

Dr. Wolfgang Kandler      Ext 97308    [wolfgang.kandler@boku.ac.at](mailto:wolfgang.kandler@boku.ac.at)

Method specialists:

Ing. Uta Kachelmeier      Ext 97361    [uta.kachelmeier@boku.ac.at](mailto:uta.kachelmeier@boku.ac.at)  
Ing. Caroline Stadlmann      Ext 97306    [caroline.stadlmann@boku.ac.at](mailto:caroline.stadlmann@boku.ac.at)

Approved by:	Dipl.-HTL-Ing. Andrea Koutnik	
round: N153	Date / Signature:	30.09.2020

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This report has 147 pages.

This report summarises the results of round N153 (major ions) within the IFA-Proficiency Testing Scheme for Water Analysis. The samples N153A and N153B were distributed to the participants on Monday, 31 August 2020. Each participant received two samples of 1000 mL, each filled into two 500 mL PET bottles.

Closing date for reporting results to the IFA-Tulln was Friday, 25 September 2020. 46 laboratories participated in this interlaboratory comparison. 45 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: CaCO<sub>3</sub>, CaCl<sub>2</sub>, Ca(NO<sub>3</sub>)<sub>2</sub>, MgSO<sub>4</sub>, Mg(NO<sub>3</sub>)<sub>2</sub>, NaHCO<sub>3</sub>, KHCO<sub>3</sub>, C<sub>6</sub>H<sub>15</sub>PO<sub>3</sub> (for total-P), potassium hydrogen phthalate (for DOC) and certified standard solutions of NaNO<sub>2</sub>, NH<sub>4</sub>Cl, KH<sub>2</sub>PO<sub>4</sub>, H<sub>3</sub>BO<sub>3</sub> and Zn(CN)<sub>2</sub>/KCN. Both samples, N153A and N153B, contained free CO<sub>2</sub>, which was used for dissolution of CaCO<sub>3</sub>. No other substances (e.g. preservatives) were added. The samples were stabilised by sterile filtration and low temperature.

Ammonium was not added to sample N153B and no phosphorus compounds were added to sample N153A in order to check the analytical blank values.

## Homogeneity, accuracy and stability tests at the IFA-Tulln

The samples were checked for homogeneity and accuracy at the IFA-Tulln before dispatch. The results of the measurements are listed in the result tables and the parameter oriented part of the report ("IFA result").

After about four weeks stability tests were carried out on DOC, NH<sub>4</sub><sup>+</sup>, NO<sub>2</sub><sup>-</sup>, o-PO<sub>4</sub><sup>3-</sup> and CN<sup>-</sup>. The results are also on the result tables ("Stability test") and on the evaluations for each parameter in the parameter oriented part. Stability tests for all other parameters will be carried out together with the accuracy tests of the following round (N154).

According to our experience the samples remain stable up to 18 months for the parameters conductivity, total hardness, alkalinity, Ca<sup>2+</sup>, Mg<sup>2+</sup>, Na<sup>+</sup>, K<sup>+</sup>, NO<sub>3</sub><sup>-</sup>, Cl<sup>-</sup>, SO<sub>4</sub><sup>2-</sup>, Boron and HCO<sup>3-</sup> when stored at 4°C in the dark. For the parameters CN<sup>-</sup>, NH<sub>4</sub><sup>+</sup>, NO<sub>2</sub><sup>-</sup>, o-PO<sub>4</sub><sup>3-</sup> 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, 3<sup>rd</sup> Edition (2012)".

The target value of the electrical conductivity was set to the laboratory mean (conventional value). When calculated from more than 20 results with a standard deviation between the laboratories of about 1%, the conventional value has a confidence interval that is smaller than the uncertainty of our estimate calculated from the target concentrations by Debye-Hückel's theory: 2.4 % (p = 95 %). However, the calculated electrical conductivity was 706 µS/cm in sample N153A and 390 µS/cm in sample N153B.

For the pH no target values can be assigned. The results can be compared on the tables. In this kind of samples containing CO<sub>2</sub>, 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 38405 - D13). 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<sup>-</sup>.

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 <0.009 mg/L o- $PO_4^{3-}$  and <0.009 mg/L total-P (as  $PO_4^{3-}$ ) in N153A and <0.01 mg/L NH<sub>4</sub><sup>+</sup> in N153B, 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 83.9 % (cyanide in sample N153A) and 104.3 % (DOC in sample N153A). The between laboratory CVs covered the range between 0.8 % (conductivity in sample N153B) and 17.3 % (cyanide in sample N153A).

All confidence intervals of the outlier-corrected laboratory mean values except those for alkalinity in sample N153A ( $97.7\% \pm 0.9\%$ ), DOC in sample N153A ( $104.3\% \pm 2.7\%$ ), cyanide in N153A ( $83.9\% \pm 10.3\%$ ) and cyanide in N153B ( $84.2\% \pm 7.2\%$ ) 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

$$z = \frac{x_i - X}{\sigma_{PT}}$$

z      z-score  
x<sub>i</sub>    result of laboratory  
X      target value or mean value („consensus value“)  
 $\sigma_{PT}$    standard deviation for proficiency assessment

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 have been organised by the IFA-Tulln from 2009 to 2019. They represent average performance data of all former participating laboratories.

This approach was chosen, because standard deviations of the outlier-corrected measurements substantially vary between individual proficiency test rounds. Averaging standard deviations from proficiency testing rounds of several years can provide standard deviations for proficiency assessment on a broad data basis. It is therefore more suitable than a standard deviation taken directly from the interlaboratory comparison (EN ISO/IEC 17043:2010, B.3.1.3). Another advantage of previously determined standard deviations is that the participants can foresee which z-scores can be expected by their routine analysis methods before participation.

### Calculation example:

A laboratory found 7.00 mg/L for the parameter DOC (recovery of 116%). The target value for the DOC was 6.02 mg/L (100%). The relative standard deviation for proficiency assessment is given in the table below (as well as in the annual program [www.ifatest.eu](http://www.ifatest.eu)) by 6.0%, which is 0.36 mg/L DOC, when based on the target value.

$$z = \frac{x_i - X}{\sigma_{PT}} = \frac{7.00 \text{ mg/L} - 6.02 \text{ mg/L}}{0.36 \text{ mg/L}} = 2.7 \quad \text{or} \quad \frac{116\% - 100\%}{6.0\%} = 2.7$$

$z$  z-score

$x_i$  7.00 mg/L equivalent to 116% (value of the laboratory)

$X$  6.02 mg/L equivalent to 100% (target value)

$\sigma_{PT}$  0.36 mg/L equivalent to 6.0% (standard deviation for proficiency assessment, see table below)

In the case of recalculation, deviations in the last digits may occur due to the fact that rounded values are given in the report for clarity.

The z-scores are given in the parameter-oriented evaluation in the tables next to the recoveries. Additionally, each laboratory receives a sheet on which the obtained z-scores are summarized and graphically represented. On this z-score sheet the criteria are given in concentration units.

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	standard deviation for proficiency assessment	Lower limit
Alkalinity K <sub>S4.3</sub>	2.1%	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	17%	0.01 mg/L
DOC	6.0%	1 mg/L
Hydrogen carbonate	2.5%	20 mg/L
Magnesium	3.6%	1 mg/L
Nitrate	3.4%	2 mg/L
Nitrite	5.8%	0.01 mg/L
Orthophosphate	10%	0.015 mg/L
Potassium	4.7%	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 <sub>4</sub> <sup>3-</sup> )	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

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.

### 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", 3<sup>rd</sup> 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, 30 September 2020

## 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

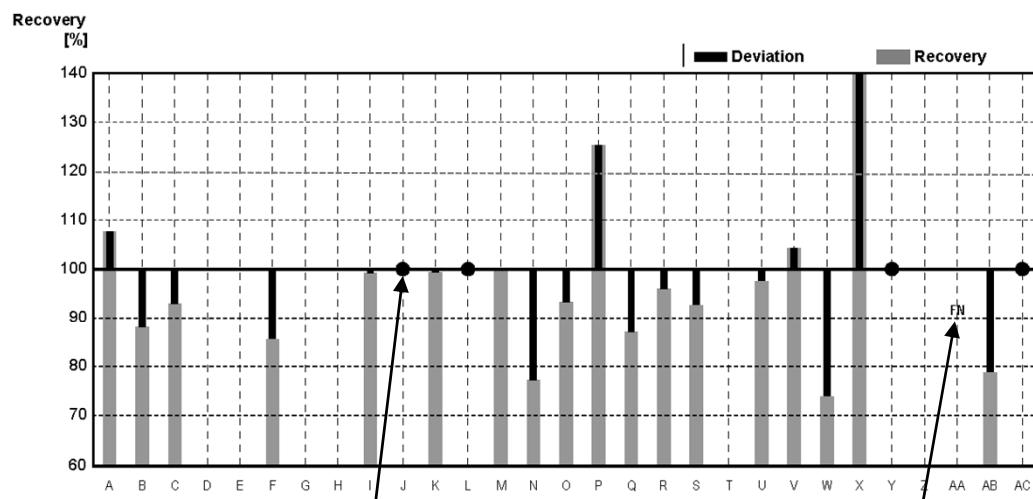


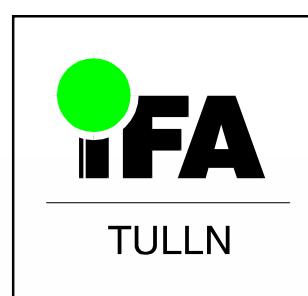
Diagram 2: Recoveries and deviations from target values



# **Illustration of Results Tables and Parameter Oriented Part**

Round N153  
Major Ions

Sample Dispatch: 31 August 2020



## Results Sample N153A

	pH	Cond.	total-Hardn.	K <sub>S 4.3</sub>	HCO <sub>3</sub> <sup>-</sup>	Ca <sup>2+</sup>	Mg <sup>2+</sup>	Na <sup>+</sup>	K <sup>+</sup>	NO <sub>3</sub> <sup>-</sup>
Unit		μS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		721	2.80	2.99	179	79.5	19.9	29.2	7.04	69.0
IFA result	6.32	724	2.75	2.93	176	77.3	20.1	30.1	7.11	65.9
Stability test										
A	6.4	715	2.85	2.79	170	79.9	20.7	29.1	7.0	68.0
B	6.52	715.95	16.08	2.949		80.65	20.88			39.10
C	6.68	720	29.8	2.90	178	81.4	20.5	30.1	7.07	
D						90.6	20.3	28.9	7.03	72.6
E	6.37	700.00	2.82	3.05	186.1	80.24	19.8	28.4	7.26	67.9
F	6.3	721	2.74	2.866	171.8	77.7	19.5	27.9	6.9	70.0
G	6.29	719		3.01	181					65.1
H										
I	6.5	723	2.75	2.81	171	78.8	19.0	30.0	6.71	67.3
K	6.52	718	2.80	2.87	175	79.3	19.8	29.4	6.74	68.5
L	6.4	722	2.83	2.90	179	81	19.8	29.9	7.4	72
M			15.7	2.91	177.27	77.19	19.39	27.22	6.653	70.61
N										>30
O	6.40	724	2.770	2.86	174	77.69	20.21	29.33	6.779	68.6
P			16.5	2.90		84.2	20.2	30.1	6.80	68.8
Q	6.4	730	2.80	2.97	177.5	79.46	19.56	28.87	7.02	66.57
R	6.47	716.5	2.86	2.91	174	82.55	19.4	30.55	6.7	63.75
S	6.47	725	2.78	2.96	177.4	80.3	18.8	28.95	6.88	68.9
T	6.47	712	2.98		205.1	82.3	21.4	32.7	7.04	63.2
U										
V	6.38	723	2.70	2.97	178.15	75.90	19.69	27.81	6.84	64.98
W	6.3	722	2.81	2.96	177	80.0	19.8	29.1	6.93	70.7
X		726	2.76	2.95	177	81.0	18.2	28.7	6.94	68.7
Y	6.36	704	2.61	2.96	181	75.9	18.8	27.6	6.85	71.7
Z	6.49	743	2.82	3.04	182	80	20.0	29.2	7.21	69.1
AA		719				79.8				71.5
AB	6.1	729	2.46	2.89	176.34	71.32	16.58	26.234	4.21	68.1
AC	6.94	723								68.87
AD	6.67	720	2.80	2.93	176	79.0	20.0	29.2	7.19	69.5
AE	6.6	739	2.88	2.97	181	82.3	20.2	28.3	6.82	65.2
AF	6.3	723	2.75	2.93	178.8	76.7	20.3	29.6	7.25	69.3
AG	6.23	698	2.772	2.915	178	76.7	20.8	24.0	5.9	68.3
AH	6.4	726.5	15.5	2.996	179.8	78.6	19.8	28.4	6.6	70.9
AI	6.45	724	2.85	2.95	180	80.0	20.8	29.5	6.8	67.7
AJ	6.5	712	2.74	2.96	178	77	19.7	28.7	7.1	68
AK	6.6	719	2.55	2.80	170.8	72.63	17.86	26.74	6.28	67.172
AL	6.44	712	2.77	2.83	170	78.5	19.6	28.8	6.64	69.2
AM		725	2.87			81.78	20.05	30.05	6.89	68.80
AN	6.75	715	2.77	2.97	181.22	80	19.0	29.1	7.1	70.8
AO	6.3	727	2.80	2.88	173	80.8	19.6	28.2	7.28	68.8
AP						79.16	18.17	27.94	6.444	69.2
AQ	6.06	714	2.80	2.93	178	78.1	20.1	29.6	7.32	68.5
AR	6.28	726	2.679	2.836	173	76.0	18.9	27.8	6.10	68.0
AS	6.2	716			165					69.3
AT			2.90	2.93						65
AU	6.257	725	2.786	2.935	179.0	78.88	19.90	28.27	6.972	70.51

### Measurement Uncertainties Sample N153A

	pH ±	Cond. ±	total- Hardn. ±	K <sub>S 4.3</sub> ±	HCO <sub>3</sub> <sup>-</sup> ±	Ca <sup>2+</sup> ±	Mg <sup>2+</sup> ±	Na <sup>+</sup> ±	K <sup>+</sup> ±	NO <sub>3</sub> <sup>-</sup> ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		2	0.03	0.03	2	1.0	0.2	0.4	0.07	1.5
IFA result	0.2	22	0.14	0.15	9	4.6	1.0	2.1	0.43	3.3
Stability test										
A	0.1	29				5.6	1.7	3.2	1.1	22.4
B	0.05	0.275	0.57	0.06		0.82	1.53			0.482
C	0.07	72	3.0	0.29	17.8	8.1	2.1	3.0	0.71	
D						0.1	0.1	0.1	0.04	0.5
E	0.19	49.4	0.43	0.109	6.52	8.82	1.37	2.14	1.03	2.38
F	0.2	29	0.14	0.206	12.6	3.7	1.2	1.4	0.3	4.3
G	0.04	5.09		0.08	2.61					4.46
H										
I	0.1	14	0.17	0.11	7	5.5	1.1	1.2	0.27	3.4
K	0.03	22	0.23	0.14	8	3.6	1.6	2.4	0.48	2.3
L	0.1	14	0.28	0.20	14	3	1.2	1.2	0.6	5
M										
N										
O	0.0864	7.602	0.28			7.7	2.0	2.9	0.7	8.170
P			0.494	0.0406		2.52	0.606	0.904	0.204	4.82
Q	0.25	18	0.02	0.01		1.27	0.37	0.58	0.41	2.33
R	0.1	10	0.15	0.1	3	4.2	1	1.6	0.4	3
S		15	0.11	0.15	8.9	3.2	0.9	1.45	0.34	2.1
T	0.03	22	0.05		3.8	0.8	0.3	0.6	0.12	0.5
U										
V	0.1	4.51		0.29		7.4	1.9	2.8	0.68	6.5
W	0.3	29	0.1	0.1	6	7	2.4	5	1	6
X		0.12	0.035	0.11	3.53	0.81	0.70	0.19	0.487	0.41
Y										
Z	0.1	3.4		0.01	0.5	0.9	0.5	0.7	0.2	0.7
AA		12.1				4.73				5.91
AB	0.2013	29.889	0.300	0.0578	3.5268	3.2807	1.26	2.099	0.644	12.939
AC	0.69	36								3.051
AD	0.30	21	0.31	0.09	5	7.1	1.8	2.3	0.51	6.3
AE	0.2	74	0.29	0.30	18	8.2	2.0	2.8	0.68	6.5
AF	0.1	10	0.28	0.3	18	11.5	3.1	4.5	1.1	7.0
AG	0.04	14.0	0.025	0.025	10	2	0.4	1	0.2	1
AH										
AI	0.03	4	0.03	0.11	7	0.3	0.1	0.2	0.05	0.6
AJ	0.26	28	0.25	0.12	16	6.93	1.77	2.58	0.64	6.12
AK	0.4	28.8		0.42	25.63	7.263	1.786	2.674	0.628	2.6869
AL	0.026	2.000	0.058	0.012	0.577	1.611	0.637	0.485	0.024	1.485
AM		22	0.29			8.18	12.27	3.00	1.03	3.44
AN	0.15	35	0.23	0.22	13.86	4	1	2.5	0.6	4.1
AO	0.16	18.1	0.28	0.07	4.3	8.1	2.0	3.0	0.7	7.0
AP						1.70	0.30	0.31	0.072	
AQ		31.4	0.34	0.12	7.83	10.2	2.4	3.6	1.2	7.1
AR										
AS										
AT			0.28	0.28						6.5
AU	0.1	5	0.2	0.2	6	3	1.5	1	0.8	3

## Results Sample N153A

	<b>NO<sub>2</sub><sup>-</sup></b>	<b>NH<sub>4</sub><sup>+</sup></b>	<b>Cl<sup>-</sup></b>	<b>SO<sub>4</sub><sup>2-</sup></b>	<b>o-PO<sub>4</sub><sup>3-</sup></b>	<b>Boron</b>	<b>DOC</b>	<b>total-P (as PO<sub>4</sub><sup>3-</sup>)</b>	<b>CN<sup>-</sup></b>
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.075	0.108	66.1	53.4	<0.009	0.056	3.04	<0.009	0.064
IFA result	0.072	0.109	64.5	53.0	<0.009	0.055	3.01	<0.009	0.060
Stability test	0.072	0.112			<0.009		3.11		0.059
A	0.070	0.100	68.0	55.4	<0.020	0.052	3.05	<0.020	0.055
B			67.95	55.0					
C		0.120				<0.1			0.062
D	0.388	<0.08	77.4	53.9					
E	0.0776	0.103	67.0	54.5	<0.01	0.054	3.02	<0.01	0.0440
F	0.0718	0.114	67.2	55.2	<0.010	0.0517	3.34	<0.010	
G	0.0722	0.099	67.1		<0.006			<0.006	
H									
I	0.074	0.068	67.8	53.7	<0.015	0.0526	2.98	<0.015	0.0576
K	0.0733	0.101	66.4	52.4	<0.015	0.0561	3.00	<0.015	0.0557
L	0.070	0.117	67	55	<0.009	0.052	3.28	'0.0110	
M	0.082	0.102	66.57	53.79		0.0970			
N		0.116			<0.019			<0.02	
O	0.075	0.103	66.2	53.9	0.0089	0.050	4.85	0.0089	0.0485
P	0.0670	0.109	66.2	50.9	<0.01	0.0590			
Q	0.070	0.078	68.90	54.54	<0.003		3.30	0.0060	
R	<0.0018	0.1108	66.58	56.37		0.0527	3.17		
S	0.081	0.108	66.9	55.0	<0.020	0.060	3.06	<0.031	
T	0.066	0.170	75.0	53.0	0.190	0.0487	3.38	<0.031	
U		0.1148							
V	0.074	0.097	70.31	49.14	<0.0055	0.063	3.16	<0.0010	
W	0.075	0.107	66.8	54.1	<0.01		3.27	<0.013	
X	0.0753	0.1135	66.7	53.0	<0.015	0.053	3.06	[0.002]	0.0597
Y	0.070	0.118	67.7	54.5		0.0420	3.29		
Z	0.083	0.119	67.2	56.0	<0.01	0.053	3.00	<0.03	
AA	0.068	0.120							
AB	0.0720	0.1160	66.75	54.04	0.0200		4.16		
AC	0.078	0.117	65.17	53.53	<0.0150		3.37	0.0340	
AD	0.076	0.109	66.1	53.4	<0.006	0.053	3.03	<0.006	0.056
AE	0.0775	0.117	63.3	51.1	<0.008	0.051	3.07	<0.015	0.0483
AF	0.073	0.102	66.2	53.6	<0.010	51.8	3.45	<0.010	
AG	0.070	0.100	66.7	51.5				<0.05	
AH	0.089	0.110	66.6	50.7	<0.02		3.30		0.076
AI	0.068	0.174	65.7	52.7			3.23		
AJ	0.073	0.116	65	52	<0.0100	0.053	3.29	<0.050	0.054
AK	0.069	0.099	65.96	53.47	<0.0061	0.062	3.20	0.0184	0.06174
AL	0.0761	0.107	68.6	56.2	<0.015	0.0510	3.10	<0.015	0.0234
AM	0.0706	0.112	66.72	54.26	<0.015	0.0569	3.03	<0.015	0.0354
AN	0.0652	0.161	67.02	57.2	<0.005	0.053	2.38	<0.005	65.5
AO	0.079	0.0112	64.5	53.5	<0.02	0.059	3.24	<0.05	0.057
AP	0.070								
AQ	0.073	0.110	68.9	54.5	0.00310	0.0400	2.87	'0.00920	0.0480
AR	0.07330	0.1050	65.7	53.6	0.00554	0.0395	3.43	0.00554	0.05250
AS	0.078	<0.1	67.2	54.0	<0.05	0.054		<0.05	0.0410
AT	0.074	0.102	64	52				<0.002	
AU	0.0769	0.100	67.51	53.85	<0.03		2.961	<0.03	

### Measurement Uncertainties Sample N153A

	$\text{NO}_2^-$ ±	$\text{NH}_4^+$ ±	$\text{Cl}^-$ ±	$\text{SO}_4^{2-}$ ±	$\text{o-PO}_4^{3-}$ ±	Boron ±	DOC ±	total-P (as $\text{PO}_4^{3-}$ ) ±	$\text{CN}^-$ ±
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.001	0.007	1.2	0.6		0.001	0.04		0.002
IFA result	0.004	0.008	3.2	2.1		0.006	0.12		0.006
Stability test	0.004	0.008					0.12		0.006
A	0.010	0.040	3.4	3.3		0.008	0.31		
B			1.074	10.0					
C		0.012							0.006
D	0.002		0.3	0.3					
E	0.005	0.010	4.01	1.64		0.0047	0.3		0.0044
F	0.0070	0.018	5.2	5.1		0.0072	0.68		
G	0.0072	0.015	0.68		0			0	
H									
I	0.003	0.006	3.4	2.7	0.003	0.0053	0.33	0.005	0.005
K	0.01	0.01	4.5	1.7		0.01	0.48		0.01
L	0.007	0.036	5	3	0.001	0.004	0.46	0.002	
M									
N		0.01							
O	0.0065	0.0084	5.296	4.926	0.0013	0.005	0.49	0.0013	0.0082
P	0.00228	0.0109	8.14	4.38	0	0.00176			
Q	0.01	0.00	2.27	2.4	0		0.5	0	
R		0.001	3.4	3		0.0003	0.07		
S	0.008	0.011	2.0	1.7		0.006	0.31		
T	0.007	0.061	0.7	0.4	0.023	0.0005	0.05		
U									
V	0.007	0.009	7.0	4.8		0.006	0.32		
W	0.006	0.02	5	4			0.5		
X	0.0008	0.0023	0.46	0.34		0.002	0.03		0.00099
Y									
Z	0.001	0.01	0.5	1.3		0.002	0.05		
AA	0.002	0.010							
AB	0.0099	0.3874	6.07425	2.86	0.0061		1.00		
AC	0.022	0.027	8.524	3.260			0.61	0.0040	
AD	0.009	0.013	3.3	2.7		0.006	0.27		0.011
AE	0.0078	0.012	6.3	5.1		0.005	0.31		0.0048
AF	0.007	0.010	7.0	5.5		7.8	0.35		
AG	0.01	0.01	1	1.5				0.05	
AH									
AI	0.005	0.06	0.4	0.5			0.29		
AJ	0.07	0.01	5.85	4.68		0.01	0.30		0.005
AK	0.0055	0.0099	3.298	2.674		0.0074	0.26	0.0028	0.00617
AL	0.001	0.001	1.626	1.322		0.001	0.140		0.001
AM	0.0071	0.022	3.34	2.71		0.0057	0.30		0.0106
AN	0.00326	0.029	3.64	3.6		0.001	0.36		11
AO	0.0008	0.001	6.4	5.3		0.006	0.32		0.006
AP									
AQ	0.003	0.013	8.6	3.0	0.0004	0.005	0.5	0.001	0.009
AR									
AS									
AT	0.007	0.010	6.4						
AU	0.02	0.02	2	2			0.2		

## Results Sample N153B

	pH	Cond.	total-Hardn.	K <sub>S 4.3</sub>	HCO <sub>3</sub> <sup>-</sup>	Ca <sup>2+</sup>	Mg <sup>2+</sup>	Na <sup>+</sup>	K <sup>+</sup>	NO <sub>3</sub> <sup>-</sup>
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		395	1.35	1.38	81.0	34.3	12.0	20.4	4.09	33.5
IFA result	6.55	399	1.33	1.35	79.4	33.4	12.1	20.9	4.05	32.6
Stability test										
A	6.5	396	1.42	1.30	79	35.8	12.8	20.7	4.10	32.9
B	6.71	393.05	8.00	1.371		35.00	13.48			33.25
C	6.57	396	14.8	1.40	84	34.9	12.4	20.9	4.11	
D						35.1	12.4	18.7	3.81	35.6
E	6.62	387	1.37	1.46	89.08	34.6	12.2	19.9	4.20	32.8
F	6.5	398	1.32	1.334	78.3	33.6	11.7	19.6	3.98	34.2
G	6.50	395		1.39	81.8					32.9
H										
I	6.4	413	1.27	1.25	76.3	31.9	11.6	20.2	3.90	33.2
K	6.75	397	1.36	1.34	81.5	34.6	12.1	20.4	3.88	32.8
L	6.6	396	1.38	1.40	87	35.3	12.1	21.3	4.33	34.4
M			6.7	1.35	82.38	32.74	11.70	18.99	3.853	34.24
N										>30
O	6.54	397	1.363	1.32	80.5	34.21	12.40	20.50	3.977	31.9
P			8.01	1.34		36.8	12.4	21.2	3.96	32.7
Q	6.55	399	1.36	1.39	81.6	34.5	11.88	20.18	4.12	33.77
R	6.62	394	1.398	1.34	79	36.34	11.94	21.0	3.89	30.3
S	6.66	398	1.33	1.37	80.7	34.9	11.1	20.15	3.96	33.2
T	6.78	389	1.37		82.0	35.1	13.2	23.5	4.01	32.6
U										
V	6.54	397	1.30	1.68	99.45	32.78	11.74	19.28	3.84	31.38
W	6.5	395	1.36	1.38	80.9	34.8	11.9	20.4	4.12	34.5
X		399	1.32	1.36	79.9	34.7	11.1	20.2	4.24	33.2
Y	6.77	383	1.27	1.41	85.9	33.7	11.5	19.4	4.22	34.0
Z	6.83	389	1.40	1.39	82	36.0	12.2	20.4	4.18	33.9
AA		396				33.5				34.5
AB	6.3	399	1.10	1.33	81.15	28.77	9.34	17.90	1.76	33.1
AC	6.96	397								33.65
AD	6.84	396	1.36	1.36	79.9	34.2	12.2	20.4	4.13	33.7
AE	6.9	412	1.40	1.33	81.2	36.0	12.3	20.4	3.96	33.9
AF	6.4	397	1.34	1.38	81.2	33.2	12.4	20.7	4.30	32.9
AG	6.47	384	1.344	1.340	82	34.0	12.8	17.6	3.58	32.6
AH	6.5	398.4	7.5	1.396	82.1	34.4	11.8	20.0	3.80	34.2
AI	6.75	399	1.44	1.40	85	34.8	13.8	20.7	3.98	33.4
AJ	6.8	390	1.32	1.38	81	33.5	11.9	20.0	4.30	32.3
AK	6.7	393	1.26	1.31	79.9	32.22	11.06	18.82	3.64	32.347
AL	6.65	394	1.35	1.32	78.1	34.4	12.0	19.4	3.88	32.7
AM		398	1.38			35.01	2.00	21.06	3.99	33.81
AN	6.87	398	1.31	1.39	84.81	33.6	11.6	20.6	4.07	34.4
AO	6.4	395	1.40	1.37	81	34.2	12.1	19.9	4.21	33.9
AP						35.64	11.13	19.62	3.771	33.3
AQ	6.16	392	1.40	1.33	81.1	33.9	12.4	20.9	4.37	33.1
AR	6.49	392	1.333	1.260	76.86	33.9	11.8	19.5	3.53	32.5
AS	6.4	389			74					32.8
AT			1.35	1.37						32.1
AU	6.491	397	1.355	1.379	84.12	34.31	12.13	19.89	4.078	32.30

### Measurement Uncertainties Sample N153B

	pH ±	Cond. ±	total- Hardn.±	K <sub>s</sub> 4.3 ±	HCO <sub>3</sub> <sup>-</sup> ±	Ca <sup>2+</sup> ±	Mg <sup>2+</sup> ±	Na <sup>+</sup> ±	K <sup>+</sup> ±	NO <sub>3</sub> <sup>-</sup> ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		1	0.01	0.01	0.5	0.5	0.1	0.1	0.04	0.6
IFA result	0.2	12	0.07	0.07	4.0	2.0	0.6	1.5	0.24	1.6
Stability test										
A	0.1	16				2.5	1.0	2.3	0.70	10.9
B	0.05	0.275	0.57	0.06		0.82	1.53			0.482
C	0.07	40	1.5	0.14	8.4	3.5	1.2	2.1	0.4	
D						0.3	0.2	0.2	0.05	0.2
E	0.20	27.3	0.21	0.052	3.12	3.80	0.843	1.49	0.598	1.15
F	0.2	16	0.07	0.110	6.7	1.6	0.8	1.0	0.19	2.1
G	0.04	2.80		0.04	1.18					2.25
H										
I	0.1	8	0.08	0.05	3.1	2.2	0.7	0.8	0.16	1.7
K	0.03	12	0.11	0.06	3.9	1.6	1.0	1.7	0.28	1.1
L	0.1	8	0.14	0.1	7	2.8	0.7	0.9	0.35	2.4
M										
N										
O	0.0883	4.169	0.13			3.4	1.2	2.0	0.4	3.799
P			0.240	0.0188		1.10	0.371	0.637	0.119	2.29
Q	0.25	9.98	0.02	0.01		0.55	0.23	0.4	0.25	1.18
R	0.1	10	0.07	0.1	3	1.9	0.6	1.1	0.24	1.6
S		8	0.05	0.07	4.0	1.4	0.6	1.01	0.20	1.0
T	0.05	22	0.15		7.0	0.2	0.04	0.5	0.09	0.8
U										
V	0.1	4.51		0.29		3.1	1.2	1.9	0.38	3.1
W	0.3	16	0.1	0.1	3	3	1.5	4	0.6	3
X		0.07	0.037	0.08	1.6	0.73	0.79	0.17	0.548	0.20
Y										
Z	0.2	1.2		0.02	1.3	0.9	0.5	0.7	0.2	0.7
AA		6.7				1.99				2.85
AB	0.2079	16.356	0.1342	0.0266	1.623	1.323	0.71	1.432	0.269	6.289
AC	0.70	20								1.491
AD	0.30	12	0.15	0.05	2.4	3.1	1.1	1.7	0.29	3.1
AE	0.2	41	0.14	0.13	8.1	3.6	1.2	2.0	0.40	3.4
AF	0.1	10	0.13	0.15	8	5.0	1.9	3.2	0.65	3.5
AG	0.04	14.0	0.025	0.025	10	2	0.4	1	0.2	1
AH										
AI	0.03	2	0.01	0.05	3	0.1	0.1	0.1	0.03	0.3
AJ	0.27	16	0.12	0.06	3.24	3.02	1.07	1.8	0.39	2.91
AK	0.4	15.7		0.197	11.99	3.222	1.106	1.882	0.364	1.2939
AL	0.068	1.000	0.029	0.006	0.173	0.815	0.487	0.378	0.012	0.058
AM		12	0.14			3.50	1.23	2.11	0.60	1.69
AN	0.15	19.9	0.11	0.1	6.49	1.8	0.6	1.8	0.30	2.0
AO	0.16	9.9	0.14	0.03	2.0	3.4	1.2	2.0	0.4	3.4
AP						0.97	0.18	0.22	0.038	
AQ		17.2	0.17	0.06	3.6	4.41	1.5	2.5	0.74	3.4
AR										
AS										
AT			0.12	0.13						3.2
AU	0.2	5	0.2	0.3	8	2	2	1	0.6	3

## Results Sample N153B

	<b>NO<sub>2</sub><sup>-</sup></b>	<b>NH<sub>4</sub><sup>+</sup></b>	<b>Cl<sup>-</sup></b>	<b>SO<sub>4</sub><sup>2-</sup></b>	<b>o-PO<sub>4</sub><sup>3-</sup></b>	<b>Boron</b>	<b>DOC</b>	<b>total-P (as PO<sub>4</sub><sup>3-</sup>)</b>	<b>CN<sup>-</sup></b>
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.0240	<0.01	39.4	32.0	0.072	0.126	4.28	0.201	0.0283
IFA result	0.0229	<0.01	38.8	32.0	0.073	0.126	4.29	0.212	0.0277
Stability test	0.0232	<0.01			0.072		4.40		0.0272
A	0.0210	<0.040	40.5	33.7	0.060	0.118	4.31	0.210	0.0230
B			42.15	31.0					
C		<0.05				0.123			0.0270
D	0.219	<0.08	45.7	32.4					
E	0.0253	<0.01	40.1	32.6	0.065	0.123	4.24	0.213	0.0220
F	0.0243	<0.010	40.6	32.9	0.071	0.119	4.49	0.189	
G	0.0236	<0.005	39.7		0.068			0.194	
H									
I	0.0230	<0.010	39.0	32.0	0.0230	0.123	4.23	0.189	0.0252
K	0.0230	<0.01	38.8	32.1	0.0657	0.128	4.23	0.198	0.0257
L	0.0230	<0.02	40.2	32.7	0.070	0.123	5.5	0.0170	
M	0.0280	<0.06	39.74	32.45		0.136			
N		<0.01			0.067			0.221	
O	0.0250	0.0063	39.5	31.5	0.0580	0.121	5.37	0.175	0.0215
P	0.0172	<0.05	39.8	30.4	0.0306	0.136			
Q	0.0220	<0.005	39.55	32.77	0.0220		4.50	0.1809	
R	0.0260	<0.04	38.45	34.57		0.121	4.54		
S	0.0300	<0.030	39.3	33.0	0.069	0.137	4.22	0.208	
T	<0.050	0.136	41.8	31.8	0.337	0.1200	4.59	0.218	
U		<0.0200							
V	0.0240	<0.0090	37.47	29.88	0.084	0.140	4.35	0.193	
W	0.0240	<0.013	39.7	32.3	0.070		4.30	0.208	
X	0.0243	[0.003]	39.7	31.8	0.066	0.130	4.29	0.1922	0.0264
Y	0.0240	<0.042	40.1	32.4		0.117	4.49		
Z	0.0286	<0.01	40.3	32.3	0.0664	0.118	4.36	0.200	
AA	<0.05	<0.05							
AB	0.0220	'0.0110	39.44	30.71	0.0700		5.66		
AC	0.0280	<0.0120	38.55	32.73	0.069		4.70	0.222	
AD	0.0253	<0.008	39.5	32.1	0.071	0.118	4.19	0.208	0.0241
AE	0.0235	<0.01	38.3	31.1	0.0539	0.119	4.31	0.189	0.0184
AF	0.0240	<0.010	38.9	31.1	0.069	117	4.53	0.185	
AG	0.0200	<0.02	38.5	30.4				0.198	
AH	0.0260	<0.03	39.8	31.2	<0.02		4.60		0.050
AI	0.0210	<0.01	39.6	32.0			4.49		
AJ	0.0245	<0.0100	38.8	31.1	0.073	0.119	4.52	0.215	0.0251
AK	0.0230	<0.0006	38.91	32.36	0.058	0.138	4.40	0.2024	0.02717
AL	0.0236	<0.010	39.9	32.9	0.0745	0.109	4.22	0.193	0.00913
AM	0.0219	<0.013	40.33	32.62	0.072	0.131	4.27	0.196	0.0242
AN	0.0225	0.092	40.1	33.7	0.0090	0.118	3.53	0.062	29.8
AO	0.0254	<0.01	39.0	31.9	0.081	0.136	4.39	0.191	0.0261
AP	<0.02								
AQ	0.0230	<0.01	40.0	31.09	0.0240	0.0910	4.23	0.218	0.0230
AR	0.02420	0.0080	38.8	30.3	0.22980	0.1064	4.38	0.22980	0.02460
AS	<0.01	<0.1	40.1	32.0	<0.05	0.107		<0.05	0.0180
AT	0.0237	<0.01	38.1	31.4				0.061	
AU	0.0257	<0.05	40.41	31.83	0.0753		4.140	0.188	

### Measurement Uncertainties Sample N153B

	$\text{NO}_2^-$ ±	$\text{NH}_4^+$ ±	$\text{Cl}^-$ ±	$\text{SO}_4^{2-}$ ±	$\text{o-PO}_4^{3-}$ ±	Boron ±	DOC ±	total-P (as $\text{PO}_4^{3-}$ ) ±	$\text{CN}^-$ ±
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Target value	0.0005		0.7	0.4	0.002	0.001	0.05	0.003	0.0016
IFA result	0.0011		1.9	1.3	0.003	0.013	0.17	0.049	0.0028
Stability test	0.0012				0.003		0.18		0.0027
A	0.0080		2.0	2.0		0.019	0.43		
B			1.074	10.0					
C						0.012			0.003
D	0.025		0.5	0.2					
E	0.0016		2.41	0.98	0.0045	0.0108	0.42	0.0213	0.0022
F	0.0037		3.2	3.1	0.010	0.015	0.87	0.029	
G	0.0024	0	0.40		0.008			0.026	
H									
I	0.002	0.003	2.0	1.6	0.003	0.012	0.47	0.016	0.002
K	0.003		2.6	1.1	0.005	0.016	0.68	0.014	0.004
L	0.002	0.006	3.2	2.0	0.011	0.009	0.8	0.002	
M									
N					0.017			0.009	
O	0.0022	0.0005	3.160	2.879	0.0051	0.01	0.54	0.0155	0.0036
P	0.00060	0	4.90	2.61	0.00306	0.00408			
Q	0	0	1.31	1.44	0		0.68	0.03	
R	0.004		2	1.9		0.0014	0.07		
S	0.003		1.2	1.0	0.007	0.014	0.42	0.031	
T		0.005	1.2	0.8	0.043	0.0005	0.06	0.013	
U									
V	0.0024		3.5	2.9	0.008	0.014	0.44	0.019	
W	0.002		3	2	0.008		0.7	0.03	
X	0.0008		0.25	0.17	0.0015	0.002	0.03	0.0018	0.00103
Y									
Z	0.001		0.5	1.3	0.002	0.002	0.03	0.003	
AA									
AB	0.0030	0.00367	3.594	1.63	0.0215		1.36		
AC	0.0080		5.042	1.993	0.012		0.85	0.027	
AD	0.0037		2.0	1.6	0.007	0.012	0.38	0.021	0.0050
AE	0.0024		3.8	3.1	0.0054	0.012	0.43	0.038	0.0018
AF	0.005		4.0	3.5	0.007	18	0.45	0.019	
AG	0.01	0.01	1	1.5				0.05	
AH									
AI	0.002		0.2	0.3			0.4		
AJ	0.002		3.49	2.8	0.007	0.02	0.41	0.09	0.002
AK	0.0018		1.946	1.618	0.007	0.0166	0.35	0.0303	0.00271
AL	0.001		0.058	0.058	0.002	0.005	0.032	0.001	0.001
AM	0.0022		2.02	1.63	0.014	0.0131	0.43	0.039	0.0073
AN	0.00113	0.017	2.2	2.1	0.0018	0.002	0.53	0.009	5.0
AO	0.0025		3.9	3.2	0.008	0.013	0.44	0.002	0.003
AP									
AQ	0.0009		5.2	1.7	0.003	0.01	0.72	0.03	0.004
AR									
AS									
AT	0.002		3.8					0.006	
AU	0.04		2	2	0.1		0.2	0.1	

# Sample N153A

## Parameter Conductivity

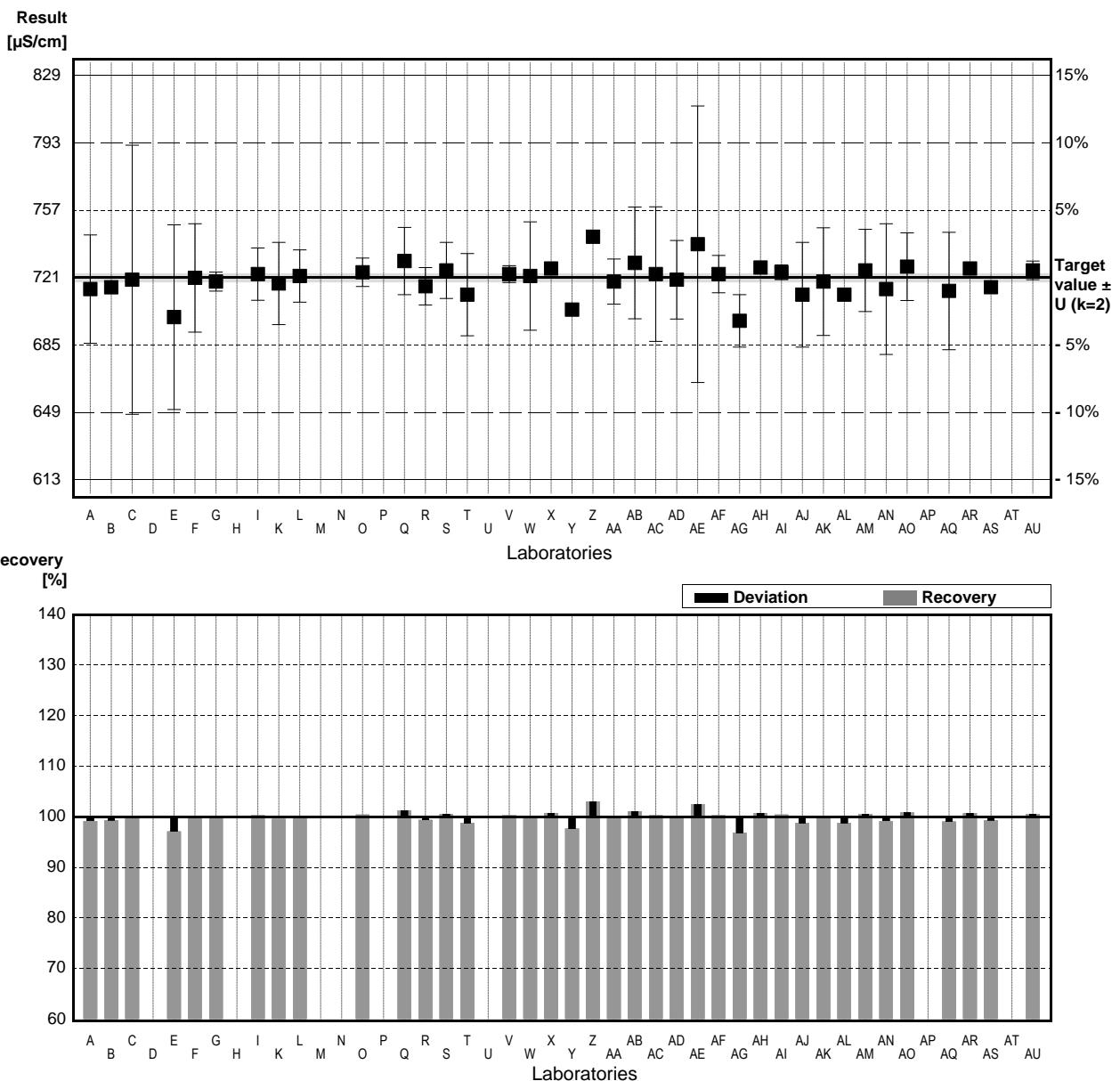
Target value  $\pm U$  ( $k=2$ )      721  $\mu\text{S}/\text{cm}$   $\pm$       2  $\mu\text{S}/\text{cm}$   
 IFA result  $\pm U$  ( $k=2$ )      724  $\mu\text{S}/\text{cm}$   $\pm$       22  $\mu\text{S}/\text{cm}$

### Stability test

μS/cm

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	715	29	$\mu\text{S}/\text{cm}$	99%	-0.64
B	715.95	0.275	$\mu\text{S}/\text{cm}$	99%	-0.54
C	720	72	$\mu\text{S}/\text{cm}$	100%	-0.11
D			$\mu\text{S}/\text{cm}$		
E	700.00 *	49.4	$\mu\text{S}/\text{cm}$	97%	-2.24
F	721	29	$\mu\text{S}/\text{cm}$	100%	0.00
G	719	5.09	$\mu\text{S}/\text{cm}$	100%	-0.21
H			$\mu\text{S}/\text{cm}$		
I	723	14	$\mu\text{S}/\text{cm}$	100%	0.21
K	718	22	$\mu\text{S}/\text{cm}$	100%	-0.32
L	722	14	$\mu\text{S}/\text{cm}$	100%	0.11
M			$\mu\text{S}/\text{cm}$		
N			$\mu\text{S}/\text{cm}$		
O	724	7.602	$\mu\text{S}/\text{cm}$	100%	0.32
P			$\mu\text{S}/\text{cm}$		
Q	730	18	$\mu\text{S}/\text{cm}$	101%	0.96
R	716.5	10	$\mu\text{S}/\text{cm}$	99%	-0.48
S	725	15	$\mu\text{S}/\text{cm}$	101%	0.43
T	712	22	$\mu\text{S}/\text{cm}$	99%	-0.96
U			$\mu\text{S}/\text{cm}$		
V	723	4.51	$\mu\text{S}/\text{cm}$	100%	0.21
W	722	29	$\mu\text{S}/\text{cm}$	100%	0.11
X	726	0.12	$\mu\text{S}/\text{cm}$	101%	0.53
Y	704		$\mu\text{S}/\text{cm}$	98%	-1.81
Z	743 *	3.4	$\mu\text{S}/\text{cm}$	103%	2.35
AA	719	12.1	$\mu\text{S}/\text{cm}$	100%	-0.21
AB	729	29.889	$\mu\text{S}/\text{cm}$	101%	0.85
AC	723	36	$\mu\text{S}/\text{cm}$	100%	0.21
AD	720	21	$\mu\text{S}/\text{cm}$	100%	-0.11
AE	739	74	$\mu\text{S}/\text{cm}$	102%	1.92
AF	723	10	$\mu\text{S}/\text{cm}$	100%	0.21
AG	698 *	14.0	$\mu\text{S}/\text{cm}$	97%	-2.45
AH	726.5		$\mu\text{S}/\text{cm}$	101%	0.59
AI	724	4	$\mu\text{S}/\text{cm}$	100%	0.32
AJ	712	28	$\mu\text{S}/\text{cm}$	99%	-0.96
AK	719	28.8	$\mu\text{S}/\text{cm}$	100%	-0.21
AL	712	2.000	$\mu\text{S}/\text{cm}$	99%	-0.96
AM	725	22	$\mu\text{S}/\text{cm}$	101%	0.43
AN	715	35	$\mu\text{S}/\text{cm}$	99%	-0.64
AO	727	18.1	$\mu\text{S}/\text{cm}$	101%	0.64
AP			$\mu\text{S}/\text{cm}$		
AQ	714	31.4	$\mu\text{S}/\text{cm}$	99%	-0.75
AR	726		$\mu\text{S}/\text{cm}$	101%	0.53
AS	716		$\mu\text{S}/\text{cm}$	99%	-0.53
AT			$\mu\text{S}/\text{cm}$		
AU	725	5	$\mu\text{S}/\text{cm}$	101%	0.43

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	720 $\pm$ 4	721 $\pm$ 3	$\mu\text{S}/\text{cm}$
Recov. $\pm$ CI(99%)	99.9 $\pm$ 0.5	100.0 $\pm$ 0.4	%
SD between labs	9	6	$\mu\text{S}/\text{cm}$
RSD between labs	1.2	0.9	%
n for calculation	38	35	



# Sample N153B

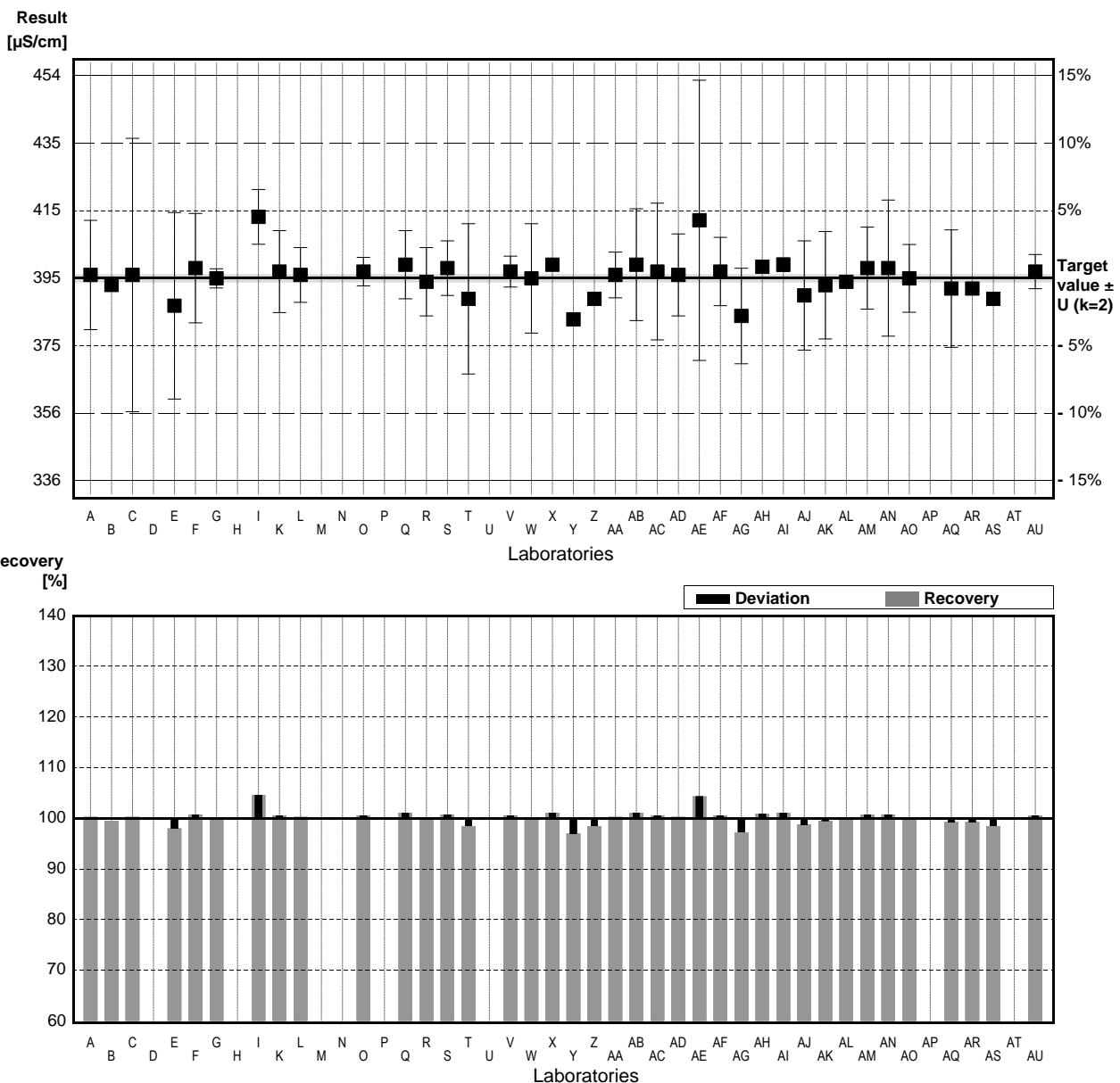
## Parameter Conductivity

Target value  $\pm U (k=2)$     395  $\mu\text{S}/\text{cm}$   $\pm$     1  $\mu\text{S}/\text{cm}$   
 IFA result  $\pm U (k=2)$     399  $\mu\text{S}/\text{cm}$   $\pm$     12  $\mu\text{S}/\text{cm}$

### Stability test

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	396	16	$\mu\text{S}/\text{cm}$	100%	0.19
B	393.05	0.275	$\mu\text{S}/\text{cm}$	100%	-0.38
C	396	40	$\mu\text{S}/\text{cm}$	100%	0.19
D			$\mu\text{S}/\text{cm}$		
E	387	27.3	$\mu\text{S}/\text{cm}$	98%	-1.56
F	398	16	$\mu\text{S}/\text{cm}$	101%	0.58
G	395	2.80	$\mu\text{S}/\text{cm}$	100%	0.00
H			$\mu\text{S}/\text{cm}$		
I	413 *	8	$\mu\text{S}/\text{cm}$	105%	3.51
K	397	12	$\mu\text{S}/\text{cm}$	101%	0.39
L	396	8	$\mu\text{S}/\text{cm}$	100%	0.19
M			$\mu\text{S}/\text{cm}$		
N			$\mu\text{S}/\text{cm}$		
O	397	4.169	$\mu\text{S}/\text{cm}$	101%	0.39
P			$\mu\text{S}/\text{cm}$		
Q	399	9.98	$\mu\text{S}/\text{cm}$	101%	0.78
R	394	10	$\mu\text{S}/\text{cm}$	100%	-0.19
S	398	8	$\mu\text{S}/\text{cm}$	101%	0.58
T	389	22	$\mu\text{S}/\text{cm}$	98%	-1.17
U			$\mu\text{S}/\text{cm}$		
V	397	4.51	$\mu\text{S}/\text{cm}$	101%	0.39
W	395	16	$\mu\text{S}/\text{cm}$	100%	0.00
X	399	0.07	$\mu\text{S}/\text{cm}$	101%	0.78
Y	383 *		$\mu\text{S}/\text{cm}$	97%	-2.34
Z	389	1.2	$\mu\text{S}/\text{cm}$	98%	-1.17
AA	396	6.7	$\mu\text{S}/\text{cm}$	100%	0.19
AB	399	16.356	$\mu\text{S}/\text{cm}$	101%	0.78
AC	397	20	$\mu\text{S}/\text{cm}$	101%	0.39
AD	396	12	$\mu\text{S}/\text{cm}$	100%	0.19
AE	412 *	41	$\mu\text{S}/\text{cm}$	104%	3.31
AF	397	10	$\mu\text{S}/\text{cm}$	101%	0.39
AG	384 *	14.0	$\mu\text{S}/\text{cm}$	97%	-2.14
AH	398.4		$\mu\text{S}/\text{cm}$	101%	0.66
AI	399	2	$\mu\text{S}/\text{cm}$	101%	0.78
AJ	390	16	$\mu\text{S}/\text{cm}$	99%	-0.97
AK	393	15.7	$\mu\text{S}/\text{cm}$	99%	-0.39
AL	394	1.000	$\mu\text{S}/\text{cm}$	100%	-0.19
AM	398	12	$\mu\text{S}/\text{cm}$	101%	0.58
AN	398	19.9	$\mu\text{S}/\text{cm}$	101%	0.58
AO	395	9.9	$\mu\text{S}/\text{cm}$	100%	0.00
AP			$\mu\text{S}/\text{cm}$		
AQ	392	17.2	$\mu\text{S}/\text{cm}$	99%	-0.58
AR	392		$\mu\text{S}/\text{cm}$	99%	-0.58
AS	389		$\mu\text{S}/\text{cm}$	98%	-1.17
AT			$\mu\text{S}/\text{cm}$		
AU	397	5	$\mu\text{S}/\text{cm}$	101%	0.39

	All results	Outliers excl.	Unit
Mean $\pm CI(99\%)$	395 $\pm 3$	395 $\pm 2$	$\mu\text{S}/\text{cm}$
Recov. $\pm CI(99\%)$	100,1 $\pm 0,6$	100,0 $\pm 0,4$	%
SD between labs	6	3	$\mu\text{S}/\text{cm}$
RSD between labs	1.5	0.8	%
n for calculation	38	34	



# Sample N153A

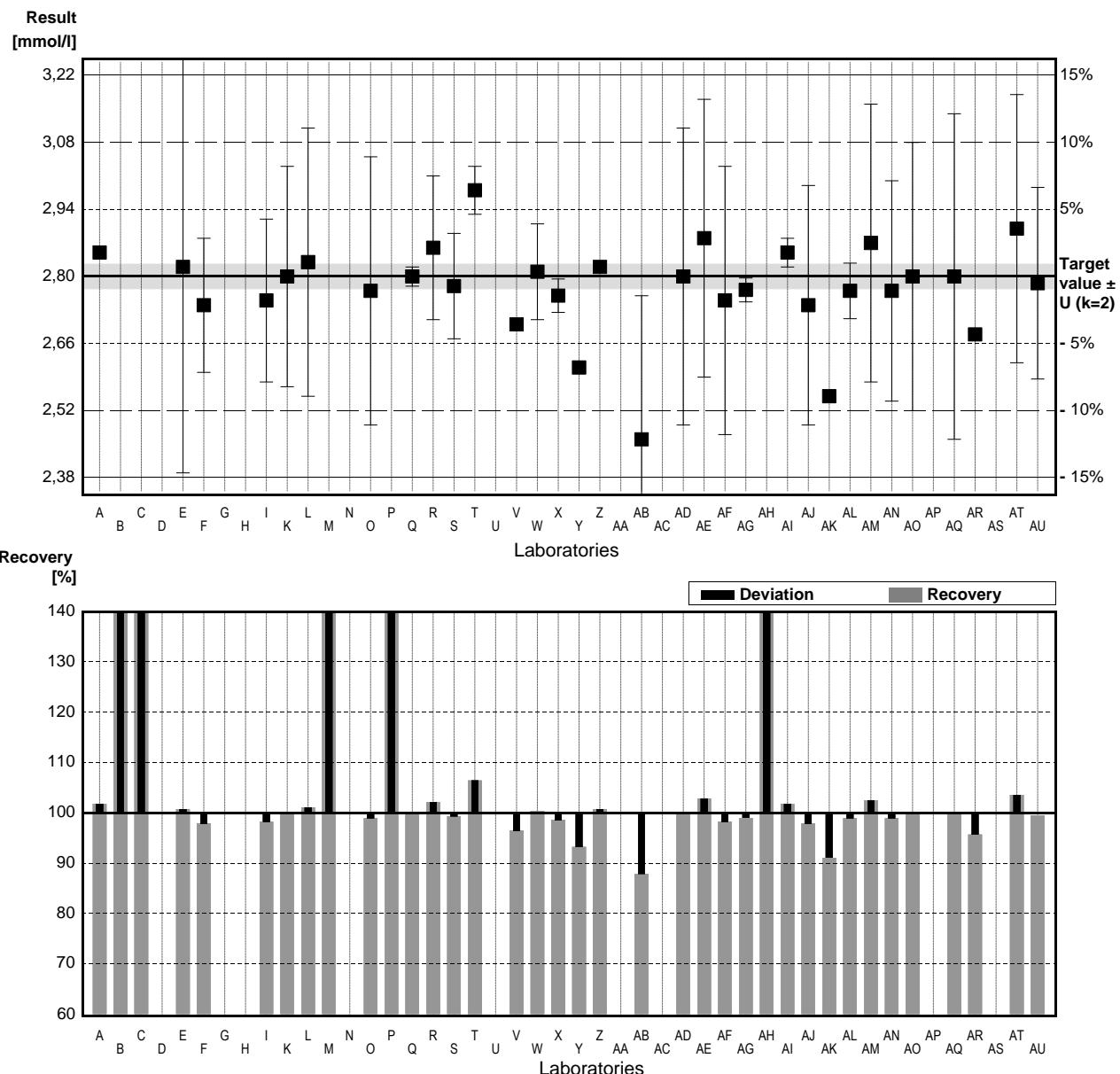
## Parameter Total hardness

Target value  $\pm U$  ( $k=2$ ) 2,80 mmol/l  $\pm$  0,03 mmol/l  
 IFA result  $\pm U$  ( $k=2$ ) 2,75 mmol/l  $\pm$  0,14 mmol/l

### Stability test

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	2,85		mmol/l	102%	0,64
B	16,08 *	0,57	mmol/l	574%	169,39
C	29,8 *	3,0	mmol/l	1064%	344,39
D			mmol/l		
E	2,82	0,43	mmol/l	101%	0,26
F	2,74	0,14	mmol/l	98%	-0,77
G			mmol/l		
H			mmol/l		
I	2,75	0,17	mmol/l	98%	-0,64
K	2,80	0,23	mmol/l	100%	0,00
L	2,83	0,28	mmol/l	101%	0,38
M	15,7 *		mmol/l	561%	164,54
N			mmol/l		
O	2,770	0,28	mmol/l	99%	-0,38
P	16,5 *	0,494	mmol/l	589%	174,74
Q	2,80	0,02	mmol/l	100%	0,00
R	2,86	0,15	mmol/l	102%	0,77
S	2,78	0,11	mmol/l	99%	-0,26
T	2,98	0,05	mmol/l	106%	2,30
U			mmol/l		
V	2,70		mmol/l	96%	-1,28
W	2,81	0,1	mmol/l	100%	0,13
X	2,76	0,035	mmol/l	99%	-0,51
Y	2,61		mmol/l	93%	-2,42
Z	2,82		mmol/l	101%	0,26
AA			mmol/l		
AB	2,46 *	0,300	mmol/l	88%	-4,34
AC			mmol/l		
AD	2,80	0,31	mmol/l	100%	0,00
AE	2,88	0,29	mmol/l	103%	1,02
AF	2,75	0,28	mmol/l	98%	-0,64
AG	2,772	0,025	mmol/l	99%	-0,36
AH	15,5 *		mmol/l	554%	161,99
AI	2,85	0,03	mmol/l	102%	0,64
AJ	2,74	0,25	mmol/l	98%	-0,77
AK	2,55 *		mmol/l	91%	-3,19
AL	2,77	0,058	mmol/l	99%	-0,38
AM	2,87	0,29	mmol/l	103%	0,89
AN	2,77	0,23	mmol/l	99%	-0,38
AO	2,80	0,28	mmol/l	100%	0,00
AP			mmol/l		
AQ	2,80	0,34	mmol/l	100%	0,00
AR	2,679		mmol/l	96%	-1,54
AS			mmol/l		
AT	2,90	0,28	mmol/l	104%	1,28
AU	2,786	0,2	mmol/l	100%	-0,18

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	4,93 $\pm$ 2,64	2,79 $\pm$ 0,04	mmol/l
Recov. $\pm$ CI(99%)	176,1 $\pm$ 94,2	99,8 $\pm$ 1,3	%
SD between labs	5,90	0,07	mmol/l
RSD between labs	119,7	2,5	%
n for calculation	37	30	



## Sample N153B

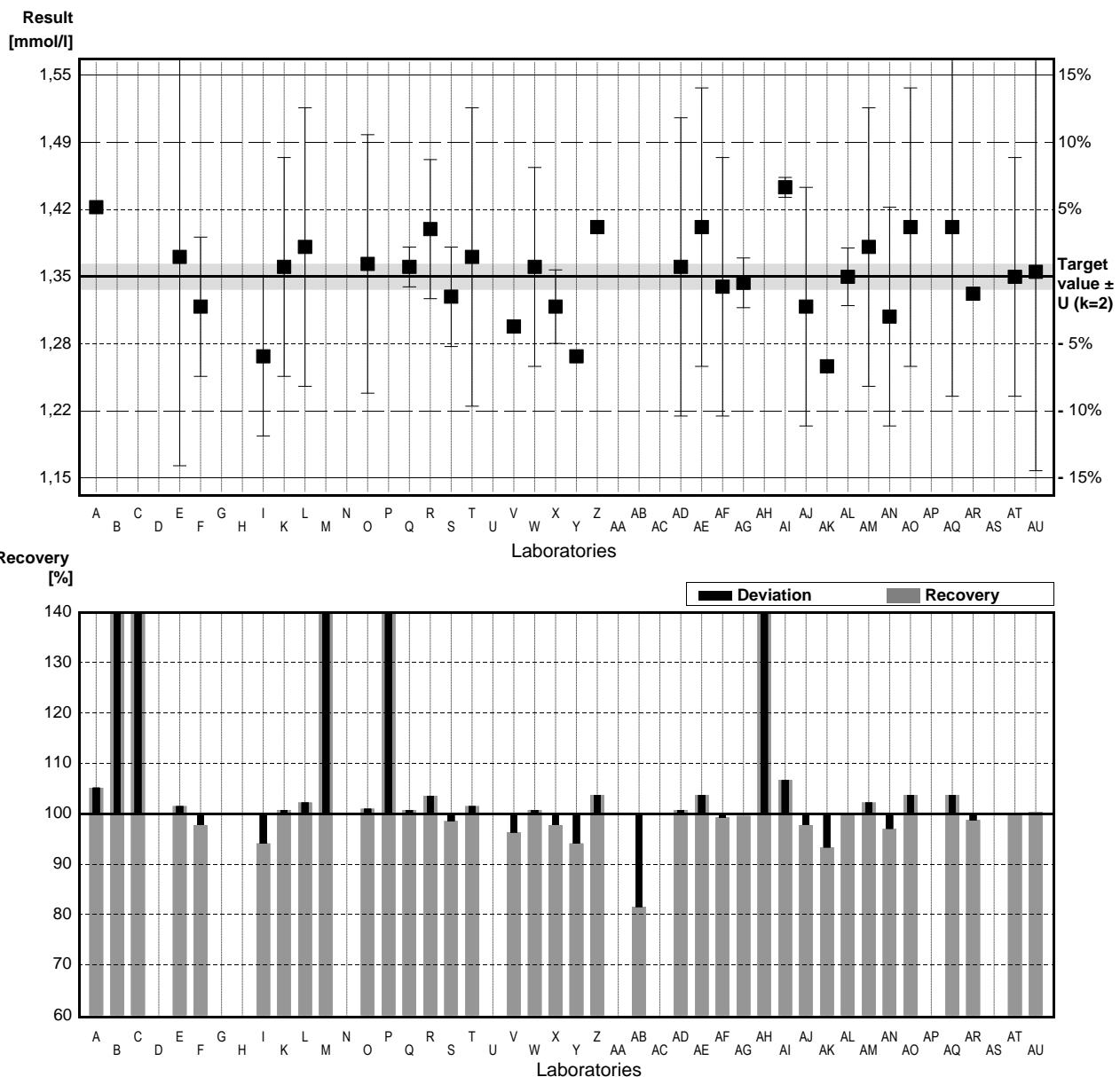
### Parameter Total hardness

Target value  $\pm U$  ( $k=2$ ) 1,35 mmol/l  $\pm$  0,01 mmol/l  
 IFA result  $\pm U$  ( $k=2$ ) 1,33 mmol/l  $\pm$  0,07 mmol/l

#### Stability test

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	1.42		mmol/l	105%	1.85
B	8.00 *	0.57	mmol/l	593%	175.93
C	14.8 *	1.5	mmol/l	1096%	355.82
D			mmol/l		
E	1.37	0.21	mmol/l	101%	0.53
F	1.32	0.07	mmol/l	98%	-0.79
G			mmol/l		
H			mmol/l		
I	1.27	0.08	mmol/l	94%	-2.12
K	1.36	0.11	mmol/l	101%	0.26
L	1.38	0.14	mmol/l	102%	0.79
M	6.7 *		mmol/l	496%	141.53
N			mmol/l		
O	1.363	0.13	mmol/l	101%	0.34
P	8.01 *	0.240	mmol/l	593%	176.19
Q	1.36	0.02	mmol/l	101%	0.26
R	1.398	0.07	mmol/l	104%	1.27
S	1.33	0.05	mmol/l	99%	-0.53
T	1.37	0.15	mmol/l	101%	0.53
U			mmol/l		
V	1.30		mmol/l	96%	-1.32
W	1.36	0.1	mmol/l	101%	0.26
X	1.32	0.037	mmol/l	98%	-0.79
Y	1.27		mmol/l	94%	-2.12
Z	1.40		mmol/l	104%	1.32
AA			mmol/l		
AB	1.10 *	0.1342	mmol/l	81%	-6.61
AC			mmol/l		
AD	1.36	0.15	mmol/l	101%	0.26
AE	1.40	0.14	mmol/l	104%	1.32
AF	1.34	0.13	mmol/l	99%	-0.26
AG	1.344	0.025	mmol/l	100%	-0.16
AH	7.5 *		mmol/l	556%	162.70
AI	1.44	0.01	mmol/l	107%	2.38
AJ	1.32	0.12	mmol/l	98%	-0.79
AK	1.26		mmol/l	93%	-2.38
AL	1.35	0.029	mmol/l	100%	0.00
AM	1.38	0.14	mmol/l	102%	0.79
AN	1.31	0.11	mmol/l	97%	-1.06
AO	1.40	0.14	mmol/l	104%	1.32
AP			mmol/l		
AQ	1.40	0.17	mmol/l	104%	1.32
AR	1.333		mmol/l	99%	-0.45
AS			mmol/l		
AT	1.35	0.12	mmol/l	100%	0.00
AU	1.355	0.2	mmol/l	100%	0.13

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	2,38 $\pm$ 1,28	1,35 $\pm$ 0,02	mmol/l
Recov. $\pm$ CI(99%)	176,3 $\pm$ 95,1	100,2 $\pm$ 1,6	%
SD between labs	2,87	0,04	mmol/l
RSD between labs	120,7	3,2	%
n for calculation	37	31	



## Sample N153A

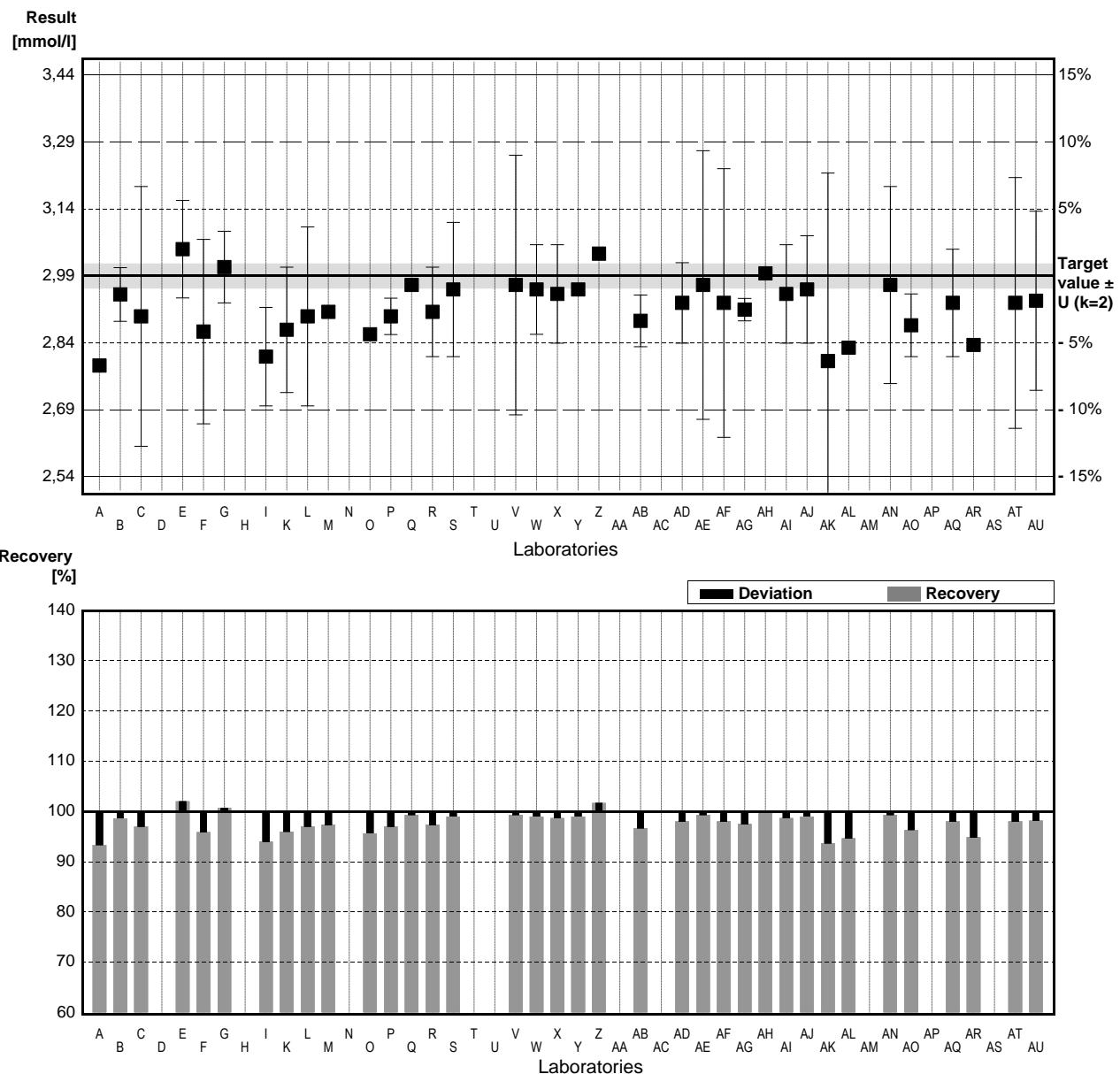
### Parameter Alkalinity

Target value  $\pm U$  ( $k=2$ ) 2,99 mmol/l  $\pm$  0,03 mmol/l  
 IFA result  $\pm U$  ( $k=2$ ) 2,93 mmol/l  $\pm$  0,15 mmol/l

#### Stability test

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	2,79		mmol/l	93%	-3,19
B	2,949	0,06	mmol/l	99%	-0,65
C	2,90	0,29	mmol/l	97%	-1,43
D			mmol/l		
E	3,05	0,109	mmol/l	102%	0,96
F	2,866	0,206	mmol/l	96%	-1,97
G	3,01	0,08	mmol/l	101%	0,32
H			mmol/l		
I	2,81	0,11	mmol/l	94%	-2,87
K	2,87	0,14	mmol/l	96%	-1,91
L	2,90	0,20	mmol/l	97%	-1,43
M	2,91		mmol/l	97%	-1,27
N			mmol/l		
O	2,86		mmol/l	96%	-2,07
P	2,90	0,0406	mmol/l	97%	-1,43
Q	2,97	0,01	mmol/l	99%	-0,32
R	2,91	0,1	mmol/l	97%	-1,27
S	2,96	0,15	mmol/l	99%	-0,48
T			mmol/l		
U			mmol/l		
V	2,97	0,29	mmol/l	99%	-0,32
W	2,96	0,1	mmol/l	99%	-0,48
X	2,95	0,11	mmol/l	99%	-0,64
Y	2,96		mmol/l	99%	-0,48
Z	3,04	0,01	mmol/l	102%	0,80
AA			mmol/l		
AB	2,89	0,0578	mmol/l	97%	-1,59
AC			mmol/l		
AD	2,93	0,09	mmol/l	98%	-0,96
AE	2,97	0,30	mmol/l	99%	-0,32
AF	2,93	0,3	mmol/l	98%	-0,96
AG	2,915	0,025	mmol/l	97%	-1,19
AH	2,996		mmol/l	100%	0,10
AI	2,95	0,11	mmol/l	99%	-0,64
AJ	2,96	0,12	mmol/l	99%	-0,48
AK	2,80	0,42	mmol/l	94%	-3,03
AL	2,83	0,012	mmol/l	95%	-2,55
AM			mmol/l		
AN	2,97	0,22	mmol/l	99%	-0,32
AO	2,88	0,07	mmol/l	96%	-1,75
AP			mmol/l		
AQ	2,93	0,12	mmol/l	98%	-0,96
AR	2,836		mmol/l	95%	-2,45
AS			mmol/l		
AT	2,93	0,28	mmol/l	98%	-0,96
AU	2,935	0,2	mmol/l	98%	-0,88

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	2,92 $\pm$ 0,03	2,92 $\pm$ 0,03	mmol/l
Recov. $\pm$ CI(99%)	97,7 $\pm$ 0,9	97,7 $\pm$ 0,9	%
SD between labs	0,06	0,06	mmol/l
RSD between labs	2,1	2,1	%
n for calculation	36	36	



## Sample N153B

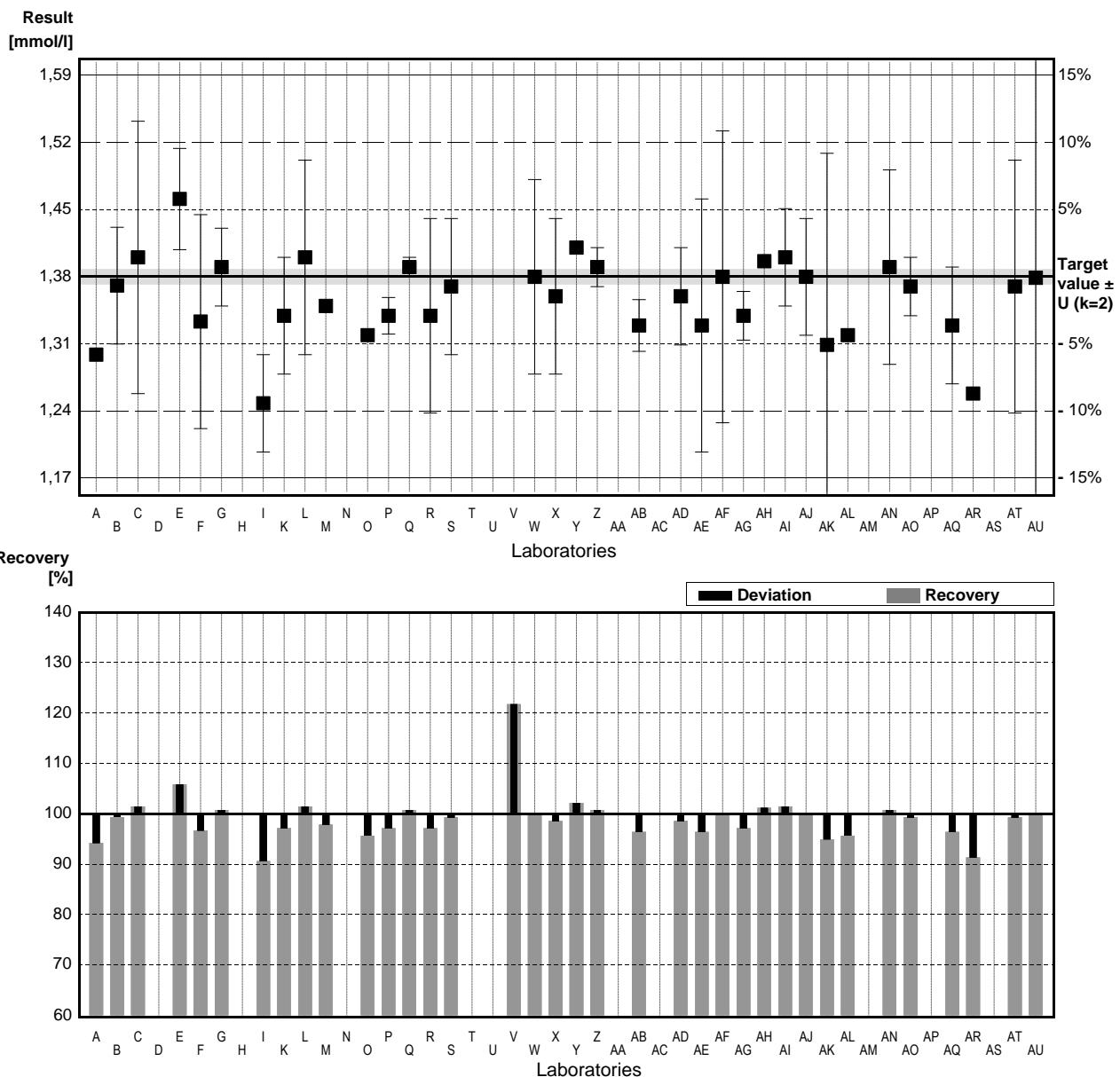
### Parameter Alkalinity

Target value  $\pm U$  ( $k=2$ ) 1,38 mmol/l  $\pm$  0,01 mmol/l  
 IFA result  $\pm U$  ( $k=2$ ) 1,35 mmol/l  $\pm$  0,07 mmol/l

#### Stability test

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	1,30		mmol/l	94%	-2,76
B	1,371	0,06	mmol/l	99%	-0,31
C	1,40	0,14	mmol/l	101%	0,69
D			mmol/l		
E	1,46	0,052	mmol/l	106%	2,76
F	1,334	0,110	mmol/l	97%	-1,59
G	1,39	0,04	mmol/l	101%	0,35
H			mmol/l		
I	1,25	0,05	mmol/l	91%	-4,49
K	1,34	0,06	mmol/l	97%	-1,38
L	1,40	0,1	mmol/l	101%	0,69
M	1,35		mmol/l	98%	-1,04
N			mmol/l		
O	1,32		mmol/l	96%	-2,07
P	1,34	0,0188	mmol/l	97%	-1,38
Q	1,39	0,01	mmol/l	101%	0,35
R	1,34	0,1	mmol/l	97%	-1,38
S	1,37	0,07	mmol/l	99%	-0,35
T			mmol/l		
U			mmol/l		
V	1,68 *	0,29	mmol/l	122%	10,35
W	1,38	0,1	mmol/l	100%	0,00
X	1,36	0,08	mmol/l	99%	-0,69
Y	1,41		mmol/l	102%	1,04
Z	1,39	0,02	mmol/l	101%	0,35
AA			mmol/l		
AB	1,33	0,0266	mmol/l	96%	-1,73
AC			mmol/l		
AD	1,36	0,05	mmol/l	99%	-0,69
AE	1,33	0,13	mmol/l	96%	-1,73
AF	1,38	0,15	mmol/l	100%	0,00
AG	1,340	0,025	mmol/l	97%	-1,38
AH	1,396		mmol/l	101%	0,55
AI	1,40	0,05	mmol/l	101%	0,69
AJ	1,38	0,06	mmol/l	100%	0,00
AK	1,31	0,197	mmol/l	95%	-2,42
AL	1,32	0,006	mmol/l	96%	-2,07
AM			mmol/l		
AN	1,39	0,1	mmol/l	101%	0,35
AO	1,37	0,03	mmol/l	99%	-0,35
AP			mmol/l		
AQ	1,33	0,06	mmol/l	96%	-1,73
AR	1,260		mmol/l	91%	-4,14
AS			mmol/l		
AT	1,37	0,13	mmol/l	99%	-0,35
AU	1,379	0,3	mmol/l	100%	-0,03

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	1,37 $\pm$ 0,03	1,36 $\pm$ 0,02	mmol/l
Recov. $\pm$ CI(99%)	99,1 $\pm$ 2,2	98,4 $\pm$ 1,4	%
SD between labs	0,07	0,04	mmol/l
RSD between labs	5,0	3,1	%
n for calculation	36	35	



## Sample N153A

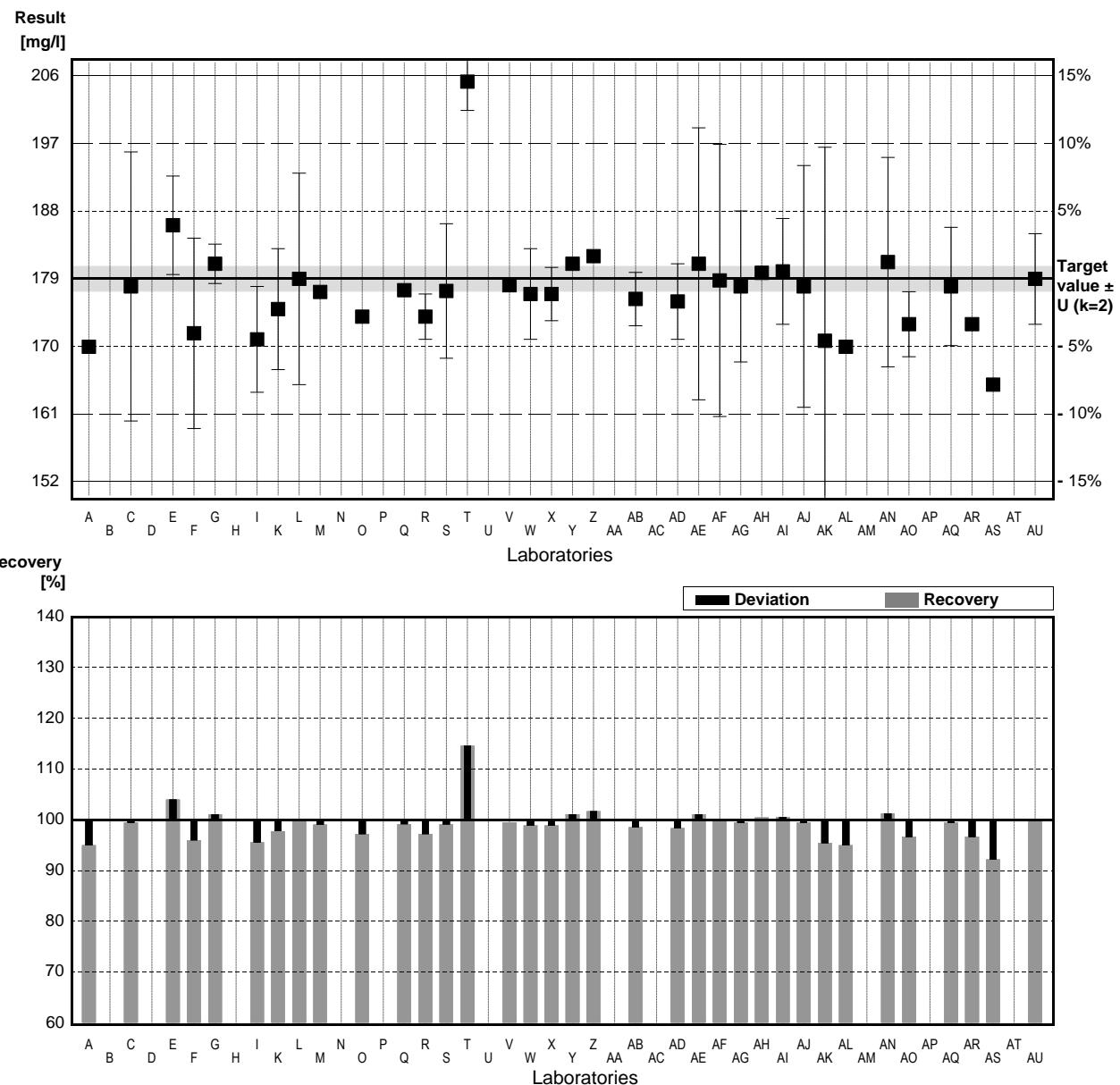
### Parameter Hydrogen carbonate

Target value  $\pm U$  ( $k=2$ ) 179 mg/l  $\pm$  2 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 176 mg/l  $\pm$  9 mg/l

#### Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	170		mg/l	95%	-2,01
B			mg/l		
C	178	17,8	mg/l	99%	-0,22
D			mg/l		
E	186,1	6,52	mg/l	104%	1,59
F	171,8	12,6	mg/l	96%	-1,61
G	181	2,61	mg/l	101%	0,45
H			mg/l		
I	171	7	mg/l	96%	-1,79
K	175	8	mg/l	98%	-0,89
L	179	14	mg/l	100%	0,00
M	177,27		mg/l	99%	-0,39
N			mg/l		
O	174		mg/l	97%	-1,12
P			mg/l		
Q	177,5		mg/l	99%	-0,34
R	174	3	mg/l	97%	-1,12
S	177,4	8,9	mg/l	99%	-0,36
T	205,1 *	3,8	mg/l	115%	5,83
U			mg/l		
V	178,15		mg/l	100%	-0,19
W	177	6	mg/l	99%	-0,45
X	177	3,53	mg/l	99%	-0,45
Y	181		mg/l	101%	0,45
Z	182	0,5	mg/l	102%	0,67
AA			mg/l		
AB	176,34	3,5268	mg/l	99%	-0,59
AC			mg/l		
AD	176	5	mg/l	98%	-0,67
AE	181	18	mg/l	101%	0,45
AF	178,8	18	mg/l	100%	-0,04
AG	178	10	mg/l	99%	-0,22
AH	179,8		mg/l	100%	0,18
AI	180	7	mg/l	101%	0,22
AJ	178	16	mg/l	99%	-0,22
AK	170,8	25,63	mg/l	95%	-1,83
AL	170	0,577	mg/l	95%	-2,01
AM			mg/l		
AN	181,22	13,86	mg/l	101%	0,50
AO	173	4,3	mg/l	97%	-1,34
AP			mg/l		
AQ	178	7,83	mg/l	99%	-0,22
AR	173		mg/l	97%	-1,34
AS	165 *		mg/l	92%	-3,13
AT			mg/l		
AU	179,0	6	mg/l	100%	0,00

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	177 $\pm$ 3	177 $\pm$ 2	mg/l
Recov. $\pm$ CI(99%)	99,1 $\pm$ 1,6	98,9 $\pm$ 1,0	%
SD between labs	6	4	mg/l
RSD between labs	3,6	2,1	%
n for calculation	35	33	



## Sample N153B

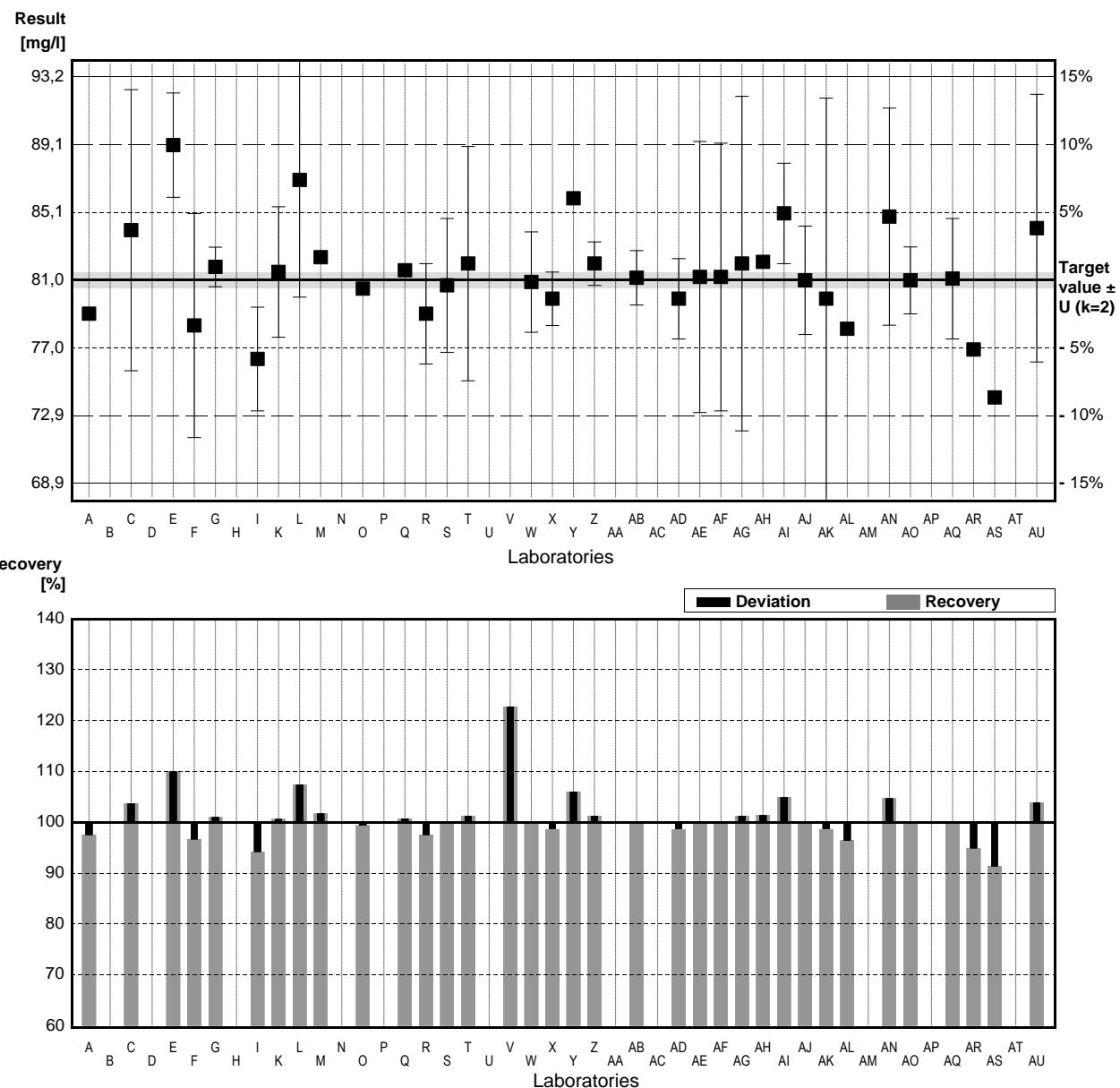
### Parameter Hydrogen carbonate

Target value  $\pm$  U (k=2) 81,0 mg/l  $\pm$  0,5 mg/l  
 IFA result  $\pm$  U (k=2) 79,4 mg/l  $\pm$  4,0 mg/l

Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	79		mg/l	98%	-0,99
B			mg/l		
C	84	8,4	mg/l	104%	1,48
D			mg/l		
E	89,08 *	3,12	mg/l	110%	3,99
F	78,3	6,7	mg/l	97%	-1,33
G	81,8	1,18	mg/l	101%	0,40
H			mg/l		
I	76,3	3,1	mg/l	94%	-2,32
K	81,5	3,9	mg/l	101%	0,25
L	87	7	mg/l	107%	2,96
M	82,38		mg/l	102%	0,68
N			mg/l		
O	80,5		mg/l	99%	-0,25
P			mg/l		
Q	81,6		mg/l	101%	0,30
R	79	3	mg/l	98%	-0,99
S	80,7	4,0	mg/l	100%	-0,15
T	82,0	7,0	mg/l	101%	0,49
U			mg/l		
V	99,45 *		mg/l	123%	9,11
W	80,9	3	mg/l	100%	-0,05
X	79,9	1,6	mg/l	99%	-0,54
Y	85,9		mg/l	106%	2,42
Z	82	1,3	mg/l	101%	0,49
AA			mg/l		
AB	81,15	1,623	mg/l	100%	0,07
AC			mg/l		
AD	79,9	2,4	mg/l	99%	-0,54
AE	81,2	8,1	mg/l	100%	0,10
AF	81,2	8	mg/l	100%	0,10
AG	82	10	mg/l	101%	0,49
AH	82,1		mg/l	101%	0,54
AI	85	3	mg/l	105%	1,98
AJ	81	3,24	mg/l	100%	0,00
AK	79,9	11,99	mg/l	99%	-0,54
AL	78,1	0,173	mg/l	96%	-1,43
AM			mg/l		
AN	84,81	6,49	mg/l	105%	1,88
AO	81	2,0	mg/l	100%	0,00
AP			mg/l		
AQ	81,1	3,6	mg/l	100%	0,05
AR	76,86		mg/l	95%	-2,04
AS	74 *		mg/l	91%	-3,46
AT			mg/l		
AU	84,12	8	mg/l	104%	1,54

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	81,9 $\pm$ 2,0	81,3 $\pm$ 1,2	mg/l
Recov. $\pm$ CI(99%)	101,0 $\pm$ 2,4	100,4 $\pm$ 1,4	%
SD between labs	4,2	2,4	mg/l
RSD between labs	5,2	3,0	%
n for calculation	35	32	



## Sample N153A

### Parameter Calcium

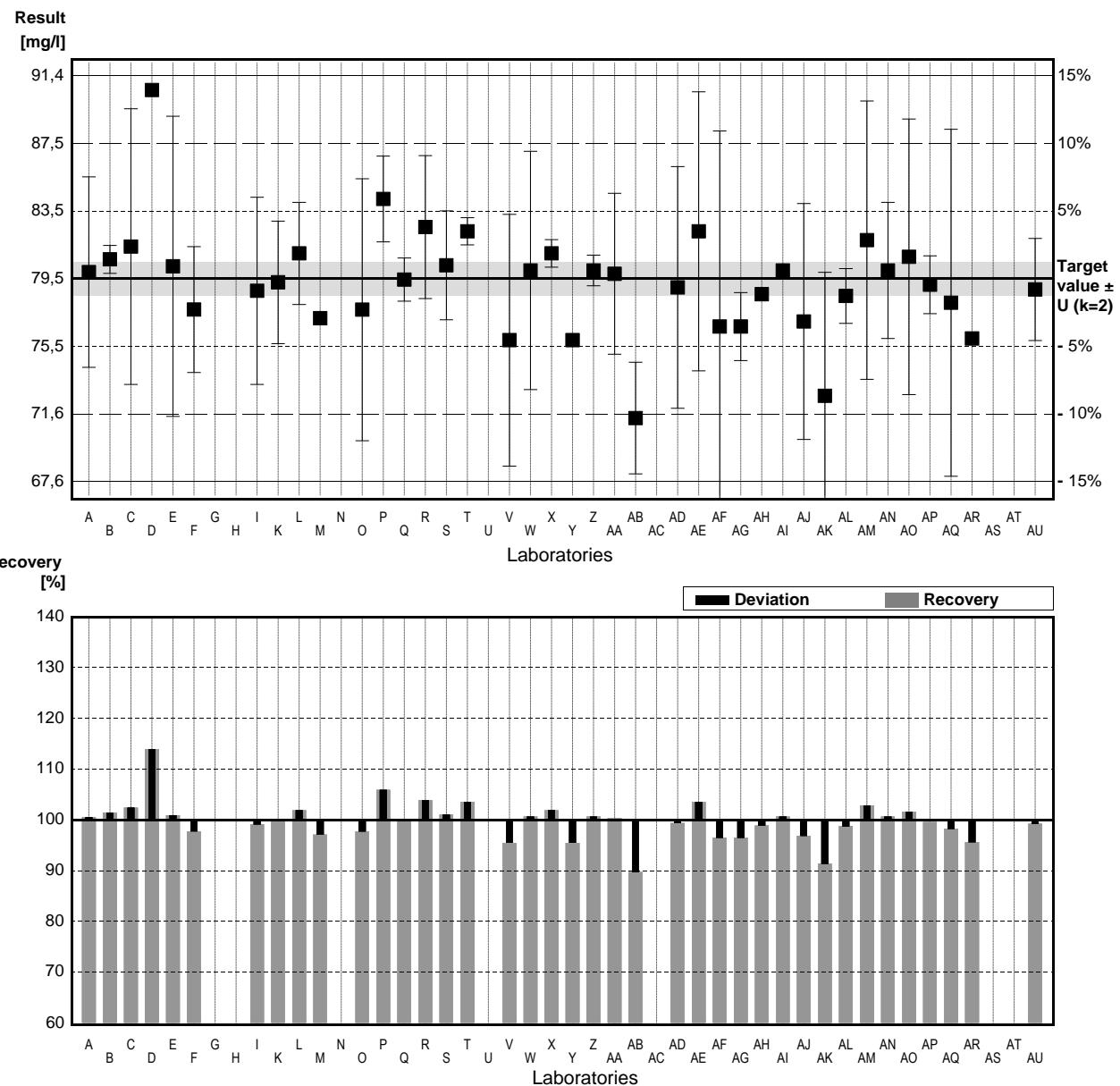
Target value  $\pm U$  ( $k=2$ ) 79,5 mg/l  $\pm$  1,0 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 77,3 mg/l  $\pm$  4,6 mg/l

#### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	79,9	5,6	mg/l	101%	0,15
B	80,65	0,82	mg/l	101%	0,44
C	81,4	8,1	mg/l	102%	0,72
D	90,6 *	0,1	mg/l	114%	4,23
E	80,24	8,82	mg/l	101%	0,28
F	77,7	3,7	mg/l	98%	-0,69
G			mg/l		
H			mg/l		
I	78,8	5,5	mg/l	99%	-0,27
K	79,3	3,6	mg/l	100%	-0,08
L	81	3	mg/l	102%	0,57
M	77,19		mg/l	97%	-0,88
N			mg/l		
O	77,69	7,7	mg/l	98%	-0,69
P	84,2	2,52	mg/l	106%	1,79
Q	79,46	1,27	mg/l	100%	-0,02
R	82,55	4,2	mg/l	104%	1,16
S	80,3	3,2	mg/l	101%	0,30
T	82,3	0,8	mg/l	104%	1,07
U			mg/l		
V	75,90	7,4	mg/l	95%	-1,37
W	80,0	7	mg/l	101%	0,19
X	81,0	0,81	mg/l	102%	0,57
Y	75,9		mg/l	95%	-1,37
Z	80	0,9	mg/l	101%	0,19
AA	79,8	4,73	mg/l	100%	0,11
AB	71,32 *	3,2807	mg/l	90%	-3,12
AC			mg/l		
AD	79,0	7,1	mg/l	99%	-0,19
AE	82,3	8,2	mg/l	104%	1,07
AF	76,7	11,5	mg/l	96%	-1,07
AG	76,7	2	mg/l	96%	-1,07
AH	78,6		mg/l	99%	-0,34
AI	80,0	0,3	mg/l	101%	0,19
AJ	77	6,93	mg/l	97%	-0,95
AK	72,63	7,263	mg/l	91%	-2,62
AL	78,5	1,611	mg/l	99%	-0,38
AM	81,78	8,18	mg/l	103%	0,87
AN	80	4	mg/l	101%	0,19
AO	80,8	8,1	mg/l	102%	0,50
AP	79,16	1,70	mg/l	100%	-0,13
AQ	78,1	10,2	mg/l	98%	-0,53
AR	76,0		mg/l	96%	-1,33
AS			mg/l		
AT			mg/l		
AU	78,88	3	mg/l	99%	-0,24

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	79,3 $\pm$ 1,4	79,2 $\pm$ 1,0	mg/l
Recov. $\pm$ CI(99%)	99,8 $\pm$ 1,7	99,7 $\pm$ 1,3	%
SD between labs	3,2	2,3	mg/l
RSD between labs	4,0	2,9	%
n for calculation	39	37	



## Sample N153B

### Parameter Calcium

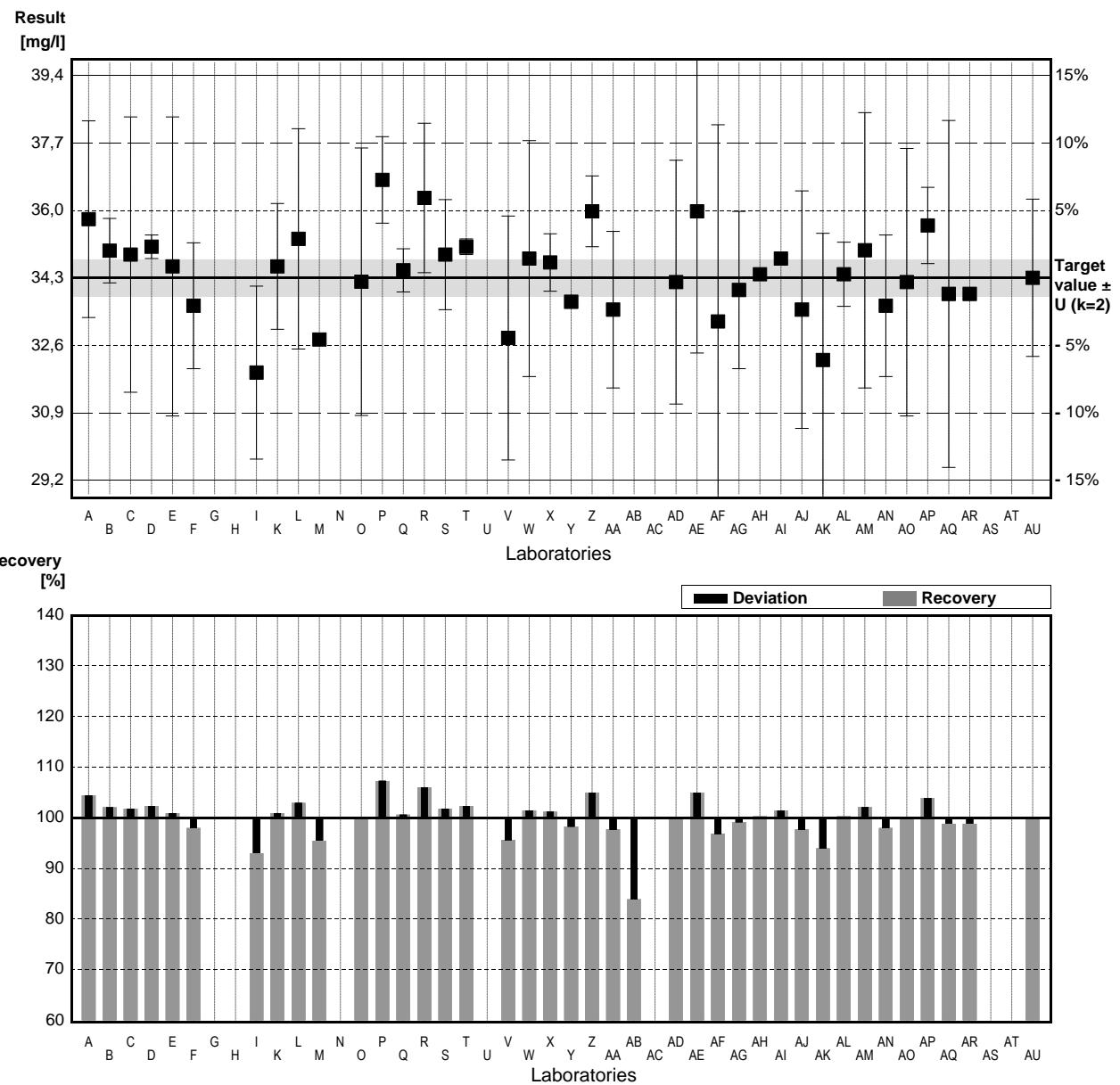
Target value  $\pm U (k=2)$  34,3 mg/l  $\pm$  0,5 mg/l  
 IFA result  $\pm U (k=2)$  33,4 mg/l  $\pm$  2,0 mg/l

#### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	35,8	2,5	mg/l	104%	1,33
B	35,00	0,82	mg/l	102%	0,62
C	34,9	3,5	mg/l	102%	0,53
D	35,1	0,3	mg/l	102%	0,71
E	34,6	3,80	mg/l	101%	0,27
F	33,6	1,6	mg/l	98%	-0,62
G			mg/l		
H			mg/l		
I	31,9	2,2	mg/l	93%	-2,12
K	34,6	1,6	mg/l	101%	0,27
L	35,3	2,8	mg/l	103%	0,88
M	32,74		mg/l	95%	-1,38
N			mg/l		
O	34,21	3,4	mg/l	100%	-0,08
P	36,8	1,10	mg/l	107%	2,21
Q	34,5	0,55	mg/l	101%	0,18
R	36,34	1,9	mg/l	106%	1,80
S	34,9	1,4	mg/l	102%	0,53
T	35,1	0,2	mg/l	102%	0,71
U			mg/l		
V	32,78	3,1	mg/l	96%	-1,34
W	34,8	3	mg/l	101%	0,44
X	34,7	0,73	mg/l	101%	0,35
Y	33,7		mg/l	98%	-0,53
Z	36,0	0,9	mg/l	105%	1,50
AA	33,5	1,99	mg/l	98%	-0,71
AB	28,77 *	1,323	mg/l	84%	-4,89
AC			mg/l		
AD	34,2	3,1	mg/l	100%	-0,09
AE	36,0	3,6	mg/l	105%	1,50
AF	33,2	5,0	mg/l	97%	-0,97
AG	34,0	2	mg/l	99%	-0,27
AH	34,4		mg/l	100%	0,09
AI	34,8	0,1	mg/l	101%	0,44
AJ	33,5	3,02	mg/l	98%	-0,71
AK	32,22	3,222	mg/l	94%	-1,84
AL	34,4	0,815	mg/l	100%	0,09
AM	35,01	3,50	mg/l	102%	0,63
AN	33,6	1,8	mg/l	98%	-0,62
AO	34,2	3,4	mg/l	100%	-0,09
AP	35,64	0,97	mg/l	104%	1,18
AQ	33,9	4,41	mg/l	99%	-0,35
AR	33,9		mg/l	99%	-0,35
AS			mg/l		
AT			mg/l		
AU	34,31	2	mg/l	100%	0,01

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	34,3 $\pm$ 0,6	34,4 $\pm$ 0,5	mg/l
Recov. $\pm$ CI(99%)	99,9 $\pm$ 1,8	100,4 $\pm$ 1,4	%
SD between labs	1,4	1,1	mg/l
RSD between labs	4,1	3,2	%
n for calculation	39	38	



## Sample N153A

### Parameter Magnesium

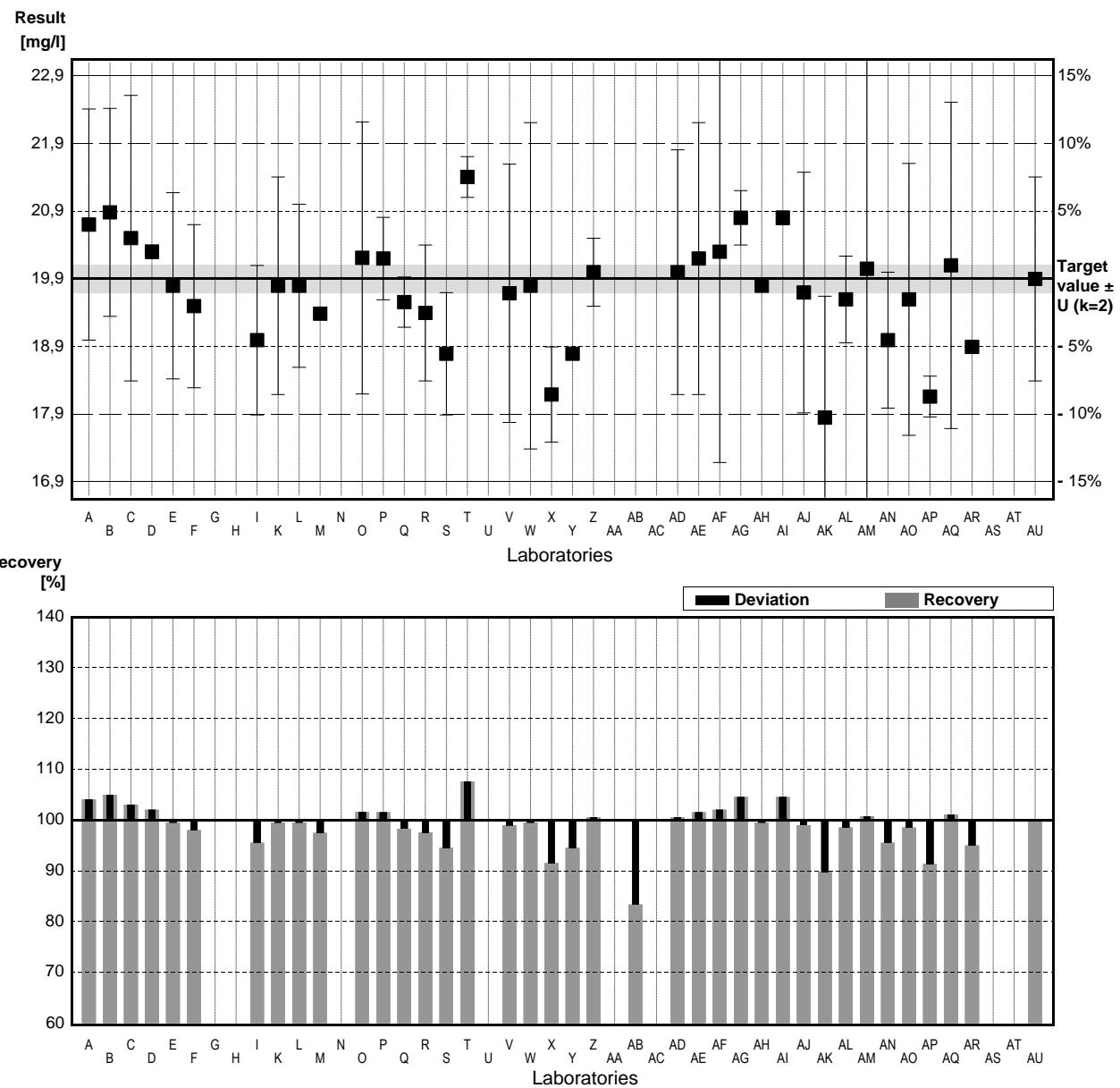
Target value  $\pm U$  ( $k=2$ ) 19,9 mg/l  $\pm$  0,2 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 20,1 mg/l  $\pm$  1,0 mg/l

#### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	20,7	1,7	mg/l	104%	1,12
B	20,88	1,53	mg/l	105%	1,37
C	20,5	2,1	mg/l	103%	0,84
D	20,3	0,1	mg/l	102%	0,56
E	19,8	1,37	mg/l	99%	-0,14
F	19,5	1,2	mg/l	98%	-0,56
G			mg/l		
H			mg/l		
I	19,0	1,1	mg/l	95%	-1,26
K	19,8	1,6	mg/l	99%	-0,14
L	19,8	1,2	mg/l	99%	-0,14
M	19,39		mg/l	97%	-0,71
N			mg/l		
O	20,21	2,0	mg/l	102%	0,43
P	20,2	0,606	mg/l	102%	0,42
Q	19,56	0,37	mg/l	98%	-0,47
R	19,4	1	mg/l	97%	-0,70
S	18,8	0,9	mg/l	94%	-1,54
T	21,4	0,3	mg/l	108%	2,09
U			mg/l		
V	19,69	1,9	mg/l	99%	-0,29
W	19,8	2,4	mg/l	99%	-0,14
X	18,2	0,70	mg/l	91%	-2,37
Y	18,8		mg/l	94%	-1,54
Z	20,0	0,5	mg/l	101%	0,14
AA			mg/l		
AB	16,58 *	1,26	mg/l	83%	-4,63
AC			mg/l		
AD	20,0	1,8	mg/l	101%	0,14
AE	20,2	2,0	mg/l	102%	0,42
AF	20,3	3,1	mg/l	102%	0,56
AG	20,8	0,4	mg/l	105%	1,26
AH	19,8		mg/l	99%	-0,14
AI	20,8	0,1	mg/l	105%	1,26
AJ	19,7	1,77	mg/l	99%	-0,28
AK	17,86 *	1,786	mg/l	90%	-2,85
AL	19,6	0,637	mg/l	98%	-0,42
AM	20,05	12,27	mg/l	101%	0,21
AN	19,0	1	mg/l	95%	-1,26
AO	19,6	2,0	mg/l	98%	-0,42
AP	18,17	0,30	mg/l	91%	-2,41
AQ	20,1	2,4	mg/l	101%	0,28
AR	18,9		mg/l	95%	-1,40
AS			mg/l		
AT			mg/l		
AU	19,90	1,5	mg/l	100%	0,00

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	19,7 $\pm$ 0,4	19,8 $\pm$ 0,3	mg/l
Recov. $\pm$ CI(99%)	98,8 $\pm$ 2,0	99,5 $\pm$ 1,6	%
SD between labs	0,9	0,7	mg/l
RSD between labs	4,7	3,6	%
n for calculation	38	36	



## Sample N153B

### Parameter Magnesium

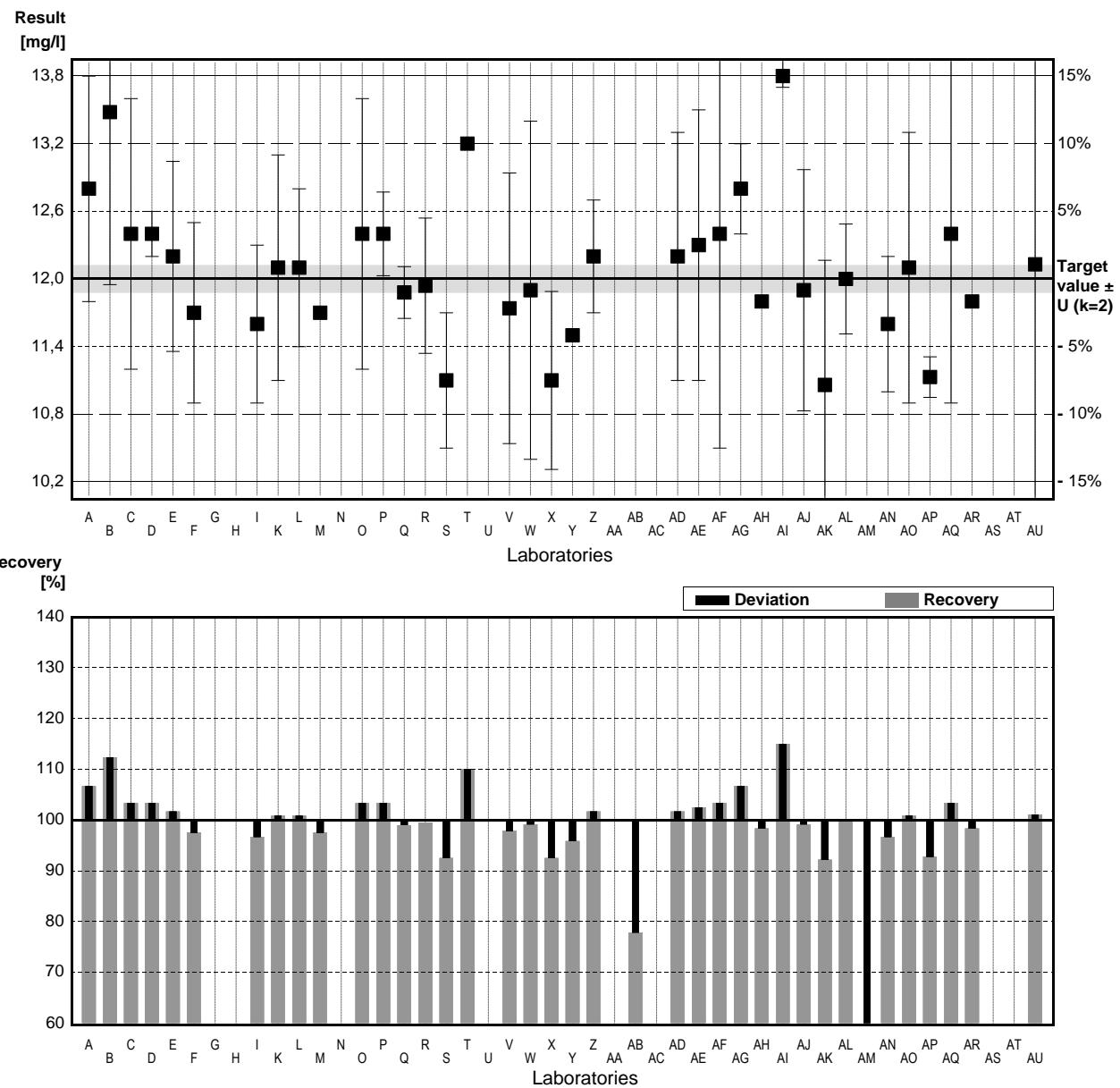
Target value  $\pm U$  ( $k=2$ ) 12,0 mg/l  $\pm$  0,1 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 12,1 mg/l  $\pm$  0,6 mg/l

#### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	12,8	1,0	mg/l	107%	1,85
B	13,48	1,53	mg/l	112%	3,43
C	12,4	1,2	mg/l	103%	0,93
D	12,4	0,2	mg/l	103%	0,93
E	12,2	0,843	mg/l	102%	0,46
F	11,7	0,8	mg/l	98%	-0,69
G		mg/l			
H		mg/l			
I	11,6	0,7	mg/l	97%	-0,93
K	12,1	1,0	mg/l	101%	0,23
L	12,1	0,7	mg/l	101%	0,23
M	11,70		mg/l	98%	-0,69
N		mg/l			
O	12,40	1,2	mg/l	103%	0,93
P	12,4	0,371	mg/l	103%	0,93
Q	11,88	0,23	mg/l	99%	-0,28
R	11,94	0,6	mg/l	100%	-0,14
S	11,1	0,6	mg/l	93%	-2,08
T	13,2	0,04	mg/l	110%	2,78
U		mg/l			
V	11,74	1,2	mg/l	98%	-0,60
W	11,9	1,5	mg/l	99%	-0,23
X	11,1	0,79	mg/l	93%	-2,08
Y	11,5		mg/l	96%	-1,16
Z	12,2	0,5	mg/l	102%	0,46
AA		mg/l			
AB	9,34 *	0,71	mg/l	78%	-6,16
AC		mg/l			
AD	12,2	1,1	mg/l	102%	0,46
AE	12,3	1,2	mg/l	103%	0,69
AF	12,4	1,9	mg/l	103%	0,93
AG	12,8	0,4	mg/l	107%	1,85
AH	11,8		mg/l	98%	-0,46
AI	13,8 *	0,1	mg/l	115%	4,17
AJ	11,9	1,07	mg/l	99%	-0,23
AK	11,06	1,106	mg/l	92%	-2,18
AL	12,0	0,487	mg/l	100%	0,00
AM	2,00 *	1,23	mg/l	17%	-23,15
AN	11,6	0,6	mg/l	97%	-0,93
AO	12,1	1,2	mg/l	101%	0,23
AP	11,13	0,18	mg/l	93%	-2,01
AQ	12,4	1,5	mg/l	103%	0,93
AR	11,8		mg/l	98%	-0,46
AS		mg/l			
AT		mg/l			
AU	12,13	2	mg/l	101%	0,30

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	11,8 $\pm$ 0,8	12,0 $\pm$ 0,3	mg/l
Recov. $\pm$ CI(99%)	97,9 $\pm$ 6,6	100,3 $\pm$ 2,1	%
SD between labs	1,8	0,5	mg/l
RSD between labs	15,2	4,6	%
n for calculation	38	35	



## Sample N153A

### Parameter Sodium

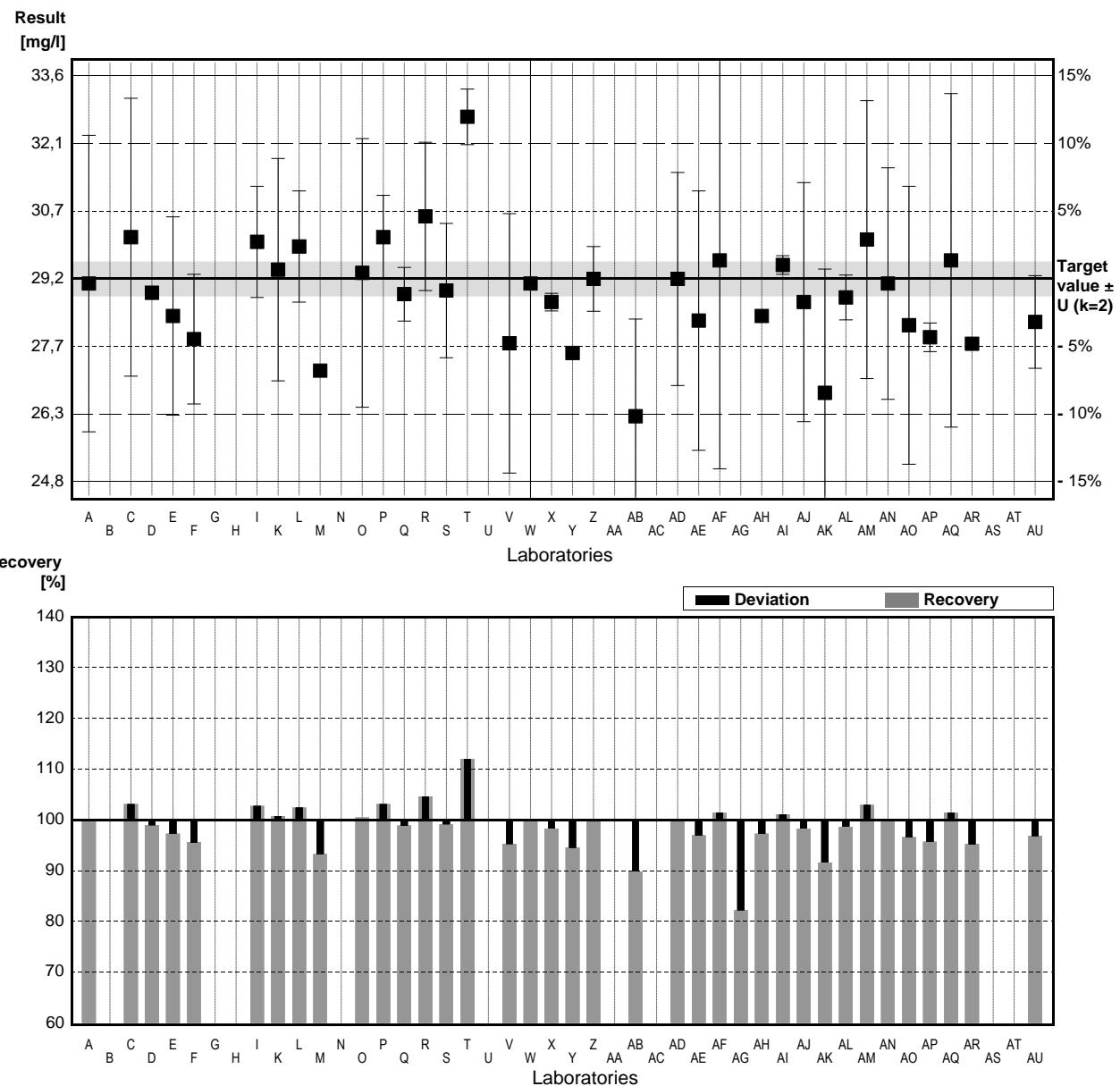
Target value  $\pm U$  ( $k=2$ ) 29,2 mg/l  $\pm$  0,4 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 30,1 mg/l  $\pm$  2,1 mg/l

#### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	29,1	3,2	mg/l	100%	-0,10
B			mg/l		
C	30,1	3,0	mg/l	103%	0,91
D	28,9	0,1	mg/l	99%	-0,30
E	28,4	2,14	mg/l	97%	-0,81
F	27,9	1,4	mg/l	96%	-1,31
G			mg/l		
H			mg/l		
I	30,0	1,2	mg/l	103%	0,81
K	29,4	2,4	mg/l	101%	0,20
L	29,9	1,2	mg/l	102%	0,71
M	27,22		mg/l	93%	-1,99
N			mg/l		
O	29,33	2,9	mg/l	100%	0,13
P	30,1	0,904	mg/l	103%	0,91
Q	28,87	0,58	mg/l	99%	-0,33
R	30,55	1,6	mg/l	105%	1,36
S	28,95	1,45	mg/l	99%	-0,25
T	32,7	*	mg/l	112%	3,53
U			mg/l		
V	27,81	2,8	mg/l	95%	-1,40
W	29,1	5	mg/l	100%	-0,10
X	28,7	0,19	mg/l	98%	-0,50
Y	27,6		mg/l	95%	-1,61
Z	29,2	0,7	mg/l	100%	0,00
AA			mg/l		
AB	26,2345	2,099	mg/l	90%	-2,99
AC			mg/l		
AD	29,2	2,3	mg/l	100%	0,00
AE	28,3	2,8	mg/l	97%	-0,91
AF	29,6	4,5	mg/l	101%	0,40
AG	24,0	*	mg/l	82%	-5,24
AH	28,4		mg/l	97%	-0,81
AI	29,5	0,2	mg/l	101%	0,30
AJ	28,7	2,58	mg/l	98%	-0,50
AK	26,74	2,674	mg/l	92%	-2,48
AL	28,8	0,485	mg/l	99%	-0,40
AM	30,05	3,00	mg/l	103%	0,86
AN	29,1	2,5	mg/l	100%	-0,10
AO	28,2	3,0	mg/l	97%	-1,01
AP	27,94	0,31	mg/l	96%	-1,27
AQ	29,6	3,6	mg/l	101%	0,40
AR	27,8		mg/l	95%	-1,41
AS			mg/l		
AT			mg/l		
AU	28,27	1	mg/l	97%	-0,94

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	28,8 $\pm$ 0,6	28,8 $\pm$ 0,5	mg/l
Recov. $\pm$ CI(99%)	98,5 $\pm$ 2,2	98,6 $\pm$ 1,6	%
SD between labs	1,4	1,0	mg/l
RSD between labs	4,9	3,4	%
n for calculation	37	35	



## Sample N153B

### Parameter Sodium

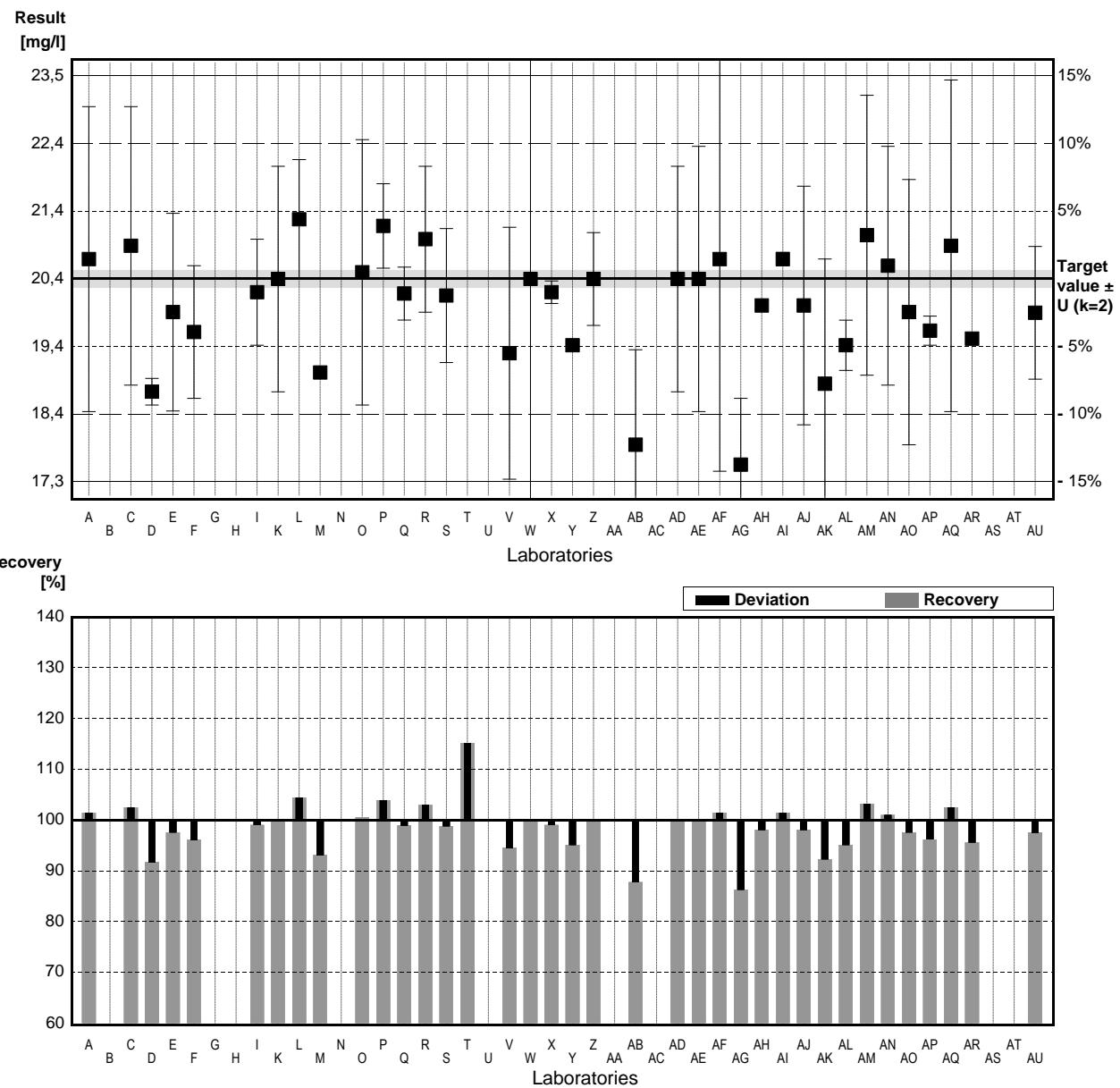
Target value  $\pm U$  ( $k=2$ ) 20,4 mg/l  $\pm$  0,1 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 20,9 mg/l  $\pm$  1,5 mg/l

#### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	20,7	2,3	mg/l	101%	0,43
B			mg/l		
C	20,9	2,1	mg/l	102%	0,72
D	18,7	0,2	mg/l	92%	-2,45
E	19,9	1,49	mg/l	98%	-0,72
F	19,6	1,0	mg/l	96%	-1,15
G			mg/l		
H			mg/l		
I	20,2	0,8	mg/l	99%	-0,29
K	20,4	1,7	mg/l	100%	0,00
L	21,3	0,9	mg/l	104%	1,30
M	18,99		mg/l	93%	-2,03
N			mg/l		
O	20,50	2,0	mg/l	100%	0,14
P	21,2	0,637	mg/l	104%	1,15
Q	20,18	0,4	mg/l	99%	-0,32
R	21,0	1,1	mg/l	103%	0,87
S	20,15	1,01	mg/l	99%	-0,36
T	23,5 *	0,5	mg/l	115%	4,47
U			mg/l		
V	19,28	1,9	mg/l	95%	-1,61
W	20,4	4	mg/l	100%	0,00
X	20,2	0,17	mg/l	99%	-0,29
Y	19,4		mg/l	95%	-1,44
Z	20,4	0,7	mg/l	100%	0,00
AA			mg/l		
AB	17,90 *	1,432	mg/l	88%	-3,60
AC			mg/l		
AD	20,4	1,7	mg/l	100%	0,00
AE	20,4	2,0	mg/l	100%	0,00
AF	20,7	3,2	mg/l	101%	0,43
AG	17,6 *	1	mg/l	86%	-4,04
AH	20,0		mg/l	98%	-0,58
AI	20,7	0,1	mg/l	101%	0,43
AJ	20,0	1,8	mg/l	98%	-0,58
AK	18,82	1,882	mg/l	92%	-2,28
AL	19,4	0,378	mg/l	95%	-1,44
AM	21,06	2,11	mg/l	103%	0,95
AN	20,6	1,8	mg/l	101%	0,29
AO	19,9	2,0	mg/l	98%	-0,72
AP	19,62	0,22	mg/l	96%	-1,12
AQ	20,9	2,5	mg/l	102%	0,72
AR	19,5		mg/l	96%	-1,30
AS			mg/l		
AT			mg/l		
AU	19,89	1	mg/l	98%	-0,74

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	20,1 $\pm$ 0,5	20,2 $\pm$ 0,3	mg/l
Recov. $\pm$ CI(99%)	98,6 $\pm$ 2,2	98,8 $\pm$ 1,6	%
SD between labs	1,0	0,7	mg/l
RSD between labs	5,1	3,3	%
n for calculation	37	34	



## Sample N153A

### Parameter Potassium

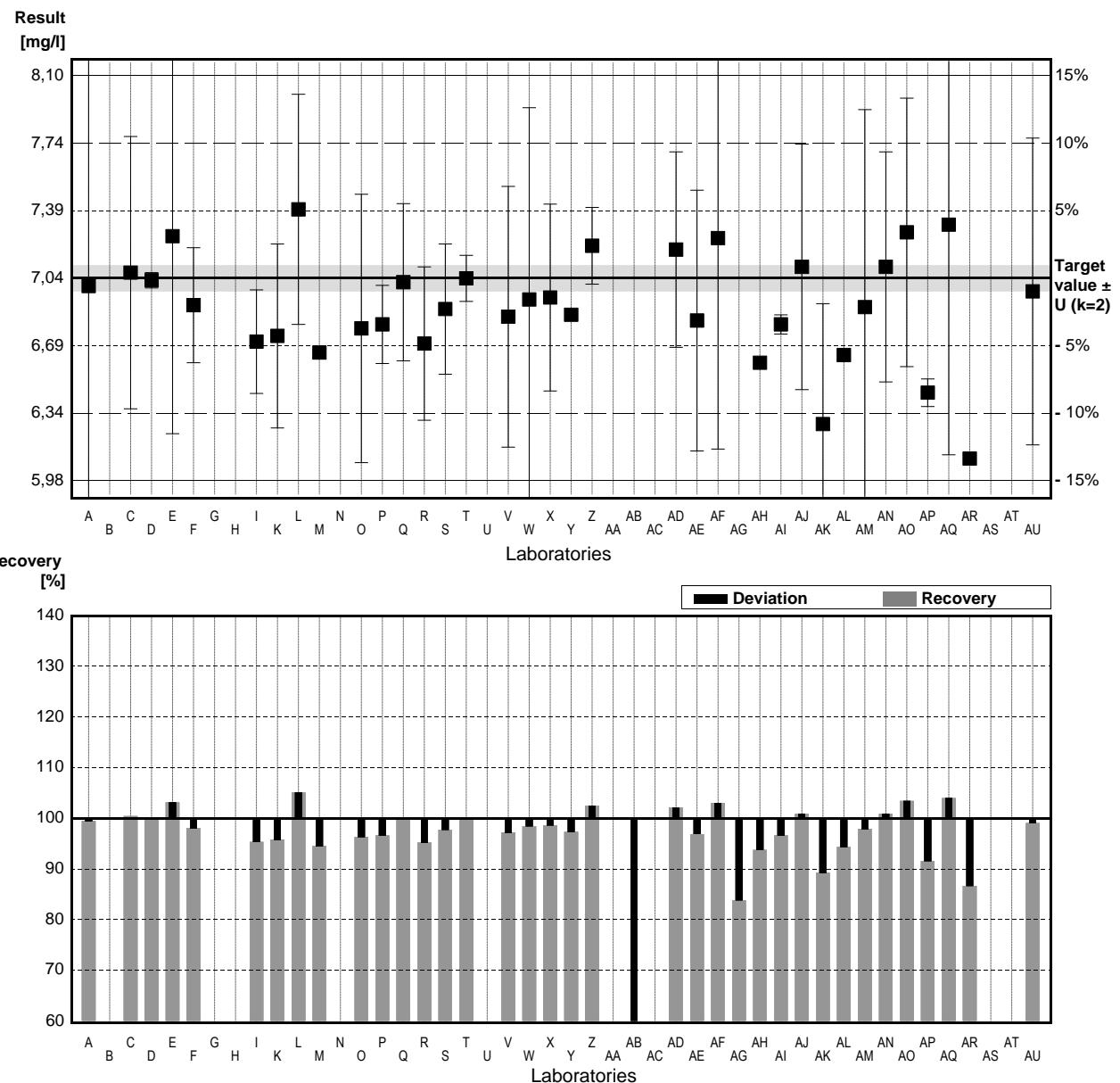
Target value  $\pm U$  ( $k=2$ ) 7,04 mg/l  $\pm$  0,07 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 7,11 mg/l  $\pm$  0,43 mg/l

#### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	7.0	1.1	mg/l	99%	-0.12
B			mg/l		
C	7.07	0.71	mg/l	100%	0.09
D	7.03	0.04	mg/l	100%	-0.03
E	7.26	1.03	mg/l	103%	0.66
F	6.9	0.3	mg/l	98%	-0.42
G			mg/l		
H			mg/l		
I	6.71	0.27	mg/l	95%	-1.00
K	6.74	0.48	mg/l	96%	-0.91
L	7.4	0.6	mg/l	105%	1.09
M	6.653		mg/l	95%	-1.17
N			mg/l		
O	6.779	0.7	mg/l	96%	-0.79
P	6.80	0.204	mg/l	97%	-0.73
Q	7.02	0.41	mg/l	100%	-0.06
R	6.7	0.4	mg/l	95%	-1.03
S	6.88	0.34	mg/l	98%	-0.48
T	7.04	0.12	mg/l	100%	0.00
U			mg/l		
V	6.84	0.68	mg/l	97%	-0.60
W	6.93	1	mg/l	98%	-0.33
X	6.94	0.487	mg/l	99%	-0.30
Y	6.85		mg/l	97%	-0.57
Z	7.21	0.2	mg/l	102%	0.51
AA			mg/l		
AB	4.21 *	0.644	mg/l	60%	-8.55
AC			mg/l		
AD	7.19	0.51	mg/l	102%	0.45
AE	6.82	0.68	mg/l	97%	-0.66
AF	7.25	1.1	mg/l	103%	0.63
AG	5.9 *	0.2	mg/l	84%	-3.45
AH	6.6		mg/l	94%	-1.33
AI	6.8	0.05	mg/l	97%	-0.73
AJ	7.1	0.64	mg/l	101%	0.18
AK	6.28	0.628	mg/l	89%	-2.30
AL	6.64	0.024	mg/l	94%	-1.21
AM	6.89	1.03	mg/l	98%	-0.45
AN	7.1	0.6	mg/l	101%	0.18
AO	7.28	0.7	mg/l	103%	0.73
AP	6.444	0.072	mg/l	92%	-1.80
AQ	7.32	1.2	mg/l	104%	0.85
AR	6.10		mg/l	87%	-2.84
AS			mg/l		
AT			mg/l		
AU	6.972	0.8	mg/l	99%	-0.21

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	6,80 $\pm$ 0,24	6,90 $\pm$ 0,13	mg/l
Recov. $\pm$ CI(99%)	96,6 $\pm$ 3,5	98,0 $\pm$ 1,9	%
SD between labs	0,54	0,29	mg/l
RSD between labs	8,0	4,1	%
n for calculation	37	35	



Sample N153B

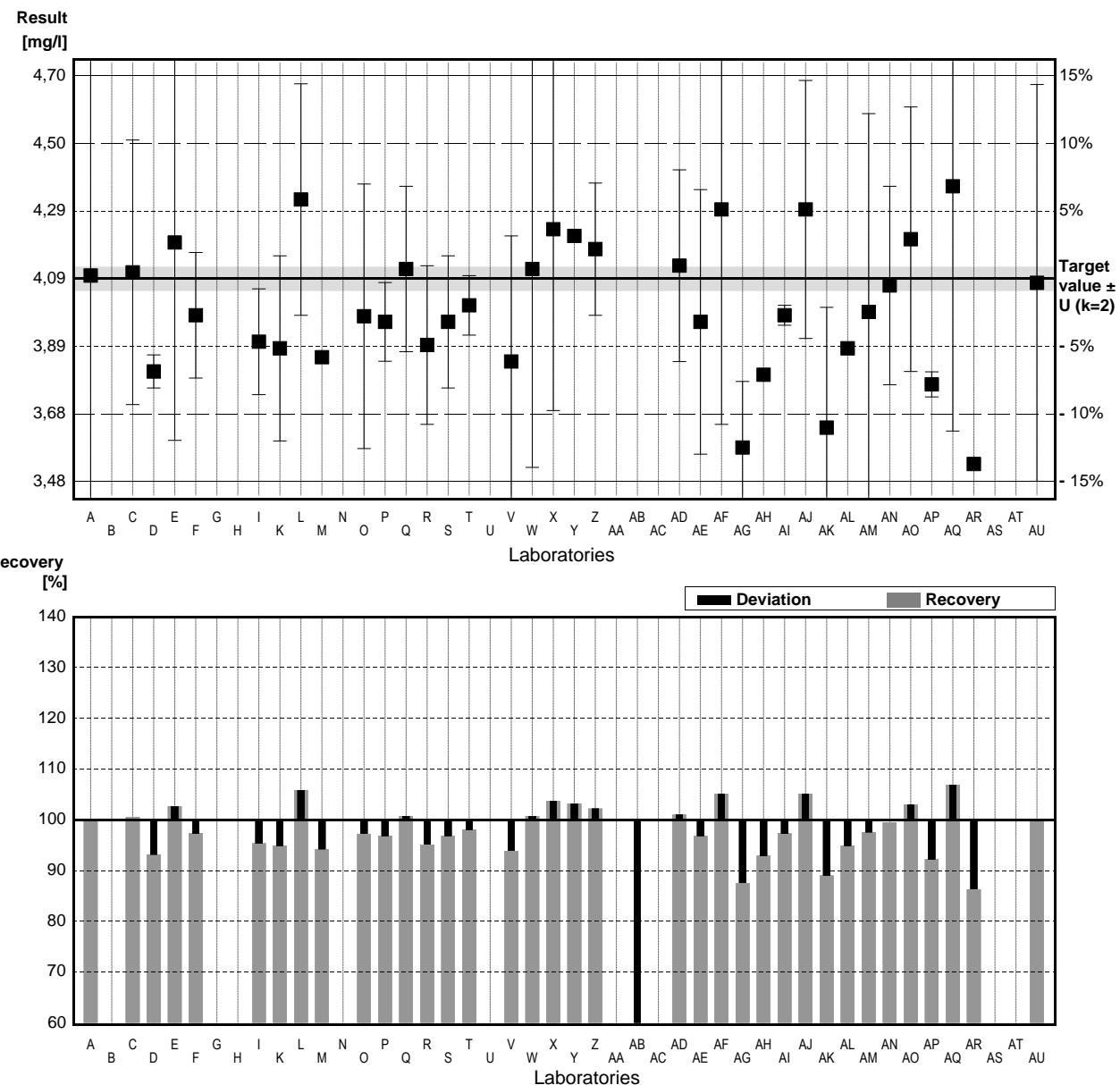
## Parameter Potassium

Target value  $\pm$  U (k=2)      4,09 mg/l       $\pm$       0,04 mg/l  
 IFA result  $\pm$  U (k=2)      4,05 mg/l       $\pm$       0,24 mg/l

## Stability test

Lab Code	Result	±	Unit	Recovery	z-Score
A	4.10	0.70	mg/l	100%	0.05
B			mg/l		
C	4.11	0.4	mg/l	100%	0.10
D	3.81	0.05	mg/l	93%	-1.46
E	4.20	0.598	mg/l	103%	0.57
F	3.98	0.19	mg/l	97%	-0.57
G			mg/l		
H			mg/l		
I	3.90	0.16	mg/l	95%	-0.99
K	3.88	0.28	mg/l	95%	-1.09
L	4.33	0.35	mg/l	106%	1.25
M	3.853		mg/l	94%	-1.23
N			mg/l		
O	3.977	0.4	mg/l	97%	-0.59
P	3.96	0.119	mg/l	97%	-0.68
Q	4.12	0.25	mg/l	101%	0.16
R	3.89	0.24	mg/l	95%	-1.04
S	3.96	0.20	mg/l	97%	-0.68
T	4.01	0.09	mg/l	98%	-0.42
U			mg/l		
V	3.84	0.38	mg/l	94%	-1.30
W	4.12	0.6	mg/l	101%	0.16
X	4.24	0.548	mg/l	104%	0.78
Y	4.22		mg/l	103%	0.68
Z	4.18	0.2	mg/l	102%	0.47
AA			mg/l		
AB	1.76	*	0.269	mg/l	43%
AC			mg/l		-12.12
AD	4.13	0.29	mg/l	101%	0.21
AE	3.96	0.40	mg/l	97%	-0.68
AF	4.30	0.65	mg/l	105%	1.09
AG	3.58	0.2	mg/l	88%	-2.65
AH	3.80		mg/l	93%	-1.51
AI	3.98	0.03	mg/l	97%	-0.57
AJ	4.30	0.39	mg/l	105%	1.09
AK	3.64	0.364	mg/l	89%	-2.34
AL	3.88	0.012	mg/l	95%	-1.09
AM	3.99	0.60	mg/l	98%	-0.52
AN	4.07	0.30	mg/l	100%	-0.10
AO	4.21	0.4	mg/l	103%	0.62
AP	3.771	0.038	mg/l	92%	-1.66
AQ	4.37	0.74	mg/l	107%	1.46
AR	3.53		mg/l	86%	-2.91
AS			mg/l		
AT			mg/l		
AU	4.078	0.6	mg/l	100%	-0.06

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	3,95 $\pm$ 0,19	4,01 $\pm$ 0,09	mg/l
Recov. $\pm$ CI(99%)	96,5 $\pm$ 4,6	98,0 $\pm$ 2,3	%
SD between labs	0,42	0,21	mg/l
RSD between labs	10,7	5,1	%
n for calculation	37	36	



## Sample N153A

### Parameter Nitrate

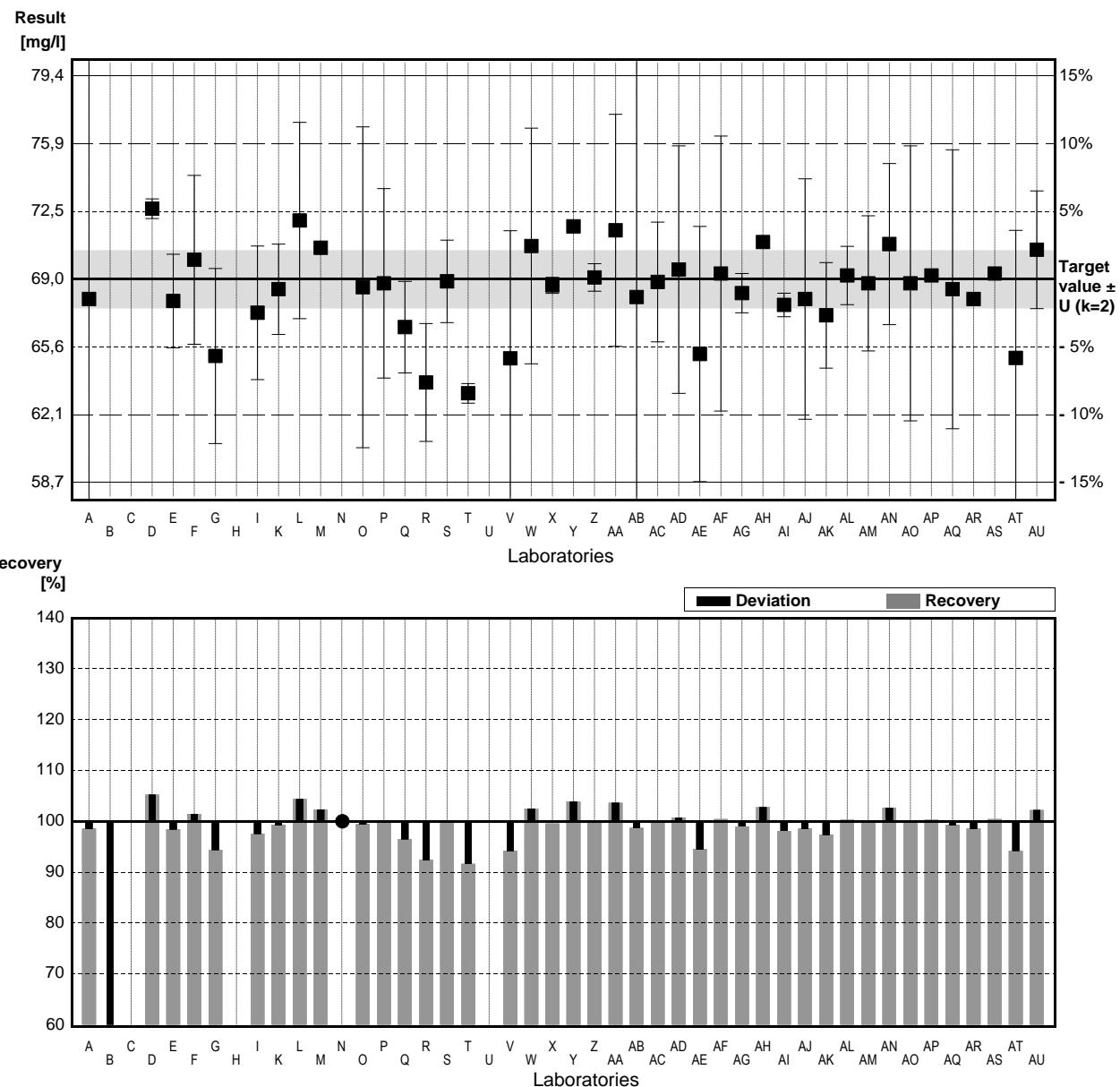
Target value  $\pm U$  ( $k=2$ ) 69,0 mg/l  $\pm$  1,5 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 65,9 mg/l  $\pm$  3,3 mg/l

#### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	68,0	22,4	mg/l	99%	-0,43
B	39,10 *	0,482	mg/l	57%	-12,75
C			mg/l		
D	72,6	0,5	mg/l	105%	1,53
E	67,9	2,38	mg/l	98%	-0,47
F	70,0	4,3	mg/l	101%	0,43
G	65,1	4,46	mg/l	94%	-1,66
H			mg/l		
I	67,3	3,4	mg/l	98%	-0,72
K	68,5	2,3	mg/l	99%	-0,21
L	72	5	mg/l	104%	1,28
M	70,61		mg/l	102%	0,69
N	>30		mg/l	*	
O	68,6	8,170	mg/l	99%	-0,17
P	68,8	4,82	mg/l	100%	-0,09
Q	66,57	2,33	mg/l	96%	-1,04
R	63,75 *	3	mg/l	92%	-2,24
S	68,9	2,1	mg/l	100%	-0,04
T	63,2 *	0,5	mg/l	92%	-2,47
U			mg/l		
V	64,98	6,5	mg/l	94%	-1,71
W	70,7	6	mg/l	102%	0,72
X	68,7	0,41	mg/l	100%	-0,13
Y	71,7		mg/l	104%	1,15
Z	69,1	0,7	mg/l	100%	0,04
AA	71,5	5,91	mg/l	104%	1,07
AB	68,1	12,939	mg/l	99%	-0,38
AC	68,87	3,051	mg/l	100%	-0,06
AD	69,5	6,3	mg/l	101%	0,21
AE	65,2	6,5	mg/l	94%	-1,62
AF	69,3	7,0	mg/l	100%	0,13
AG	68,3	1	mg/l	99%	-0,30
AH	70,9		mg/l	103%	0,81
AI	67,7	0,6	mg/l	98%	-0,55
AJ	68	6,12	mg/l	99%	-0,43
AK	67,172	2,6869	mg/l	97%	-0,78
AL	69,2	1,485	mg/l	100%	0,09
AM	68,80	3,44	mg/l	100%	-0,09
AN	70,8	4,1	mg/l	103%	0,77
AO	68,8	7,0	mg/l	100%	-0,09
AP	69,2		mg/l	100%	0,09
AQ	68,5	7,1	mg/l	99%	-0,21
AR	68,0		mg/l	99%	-0,43
AS	69,3		mg/l	100%	0,13
AT	65	6,5	mg/l	94%	-1,71
AU	70,51	3	mg/l	102%	0,64

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	67,8 $\pm$ 2,1	68,8 $\pm$ 0,8	mg/l
Recov. $\pm$ CI(99%)	98,3 $\pm$ 3,0	99,7 $\pm$ 1,2	%
SD between labs	5,0	1,9	mg/l
RSD between labs	7,4	2,7	%
n for calculation	42	39	



## Sample N153B

### Parameter Nitrate

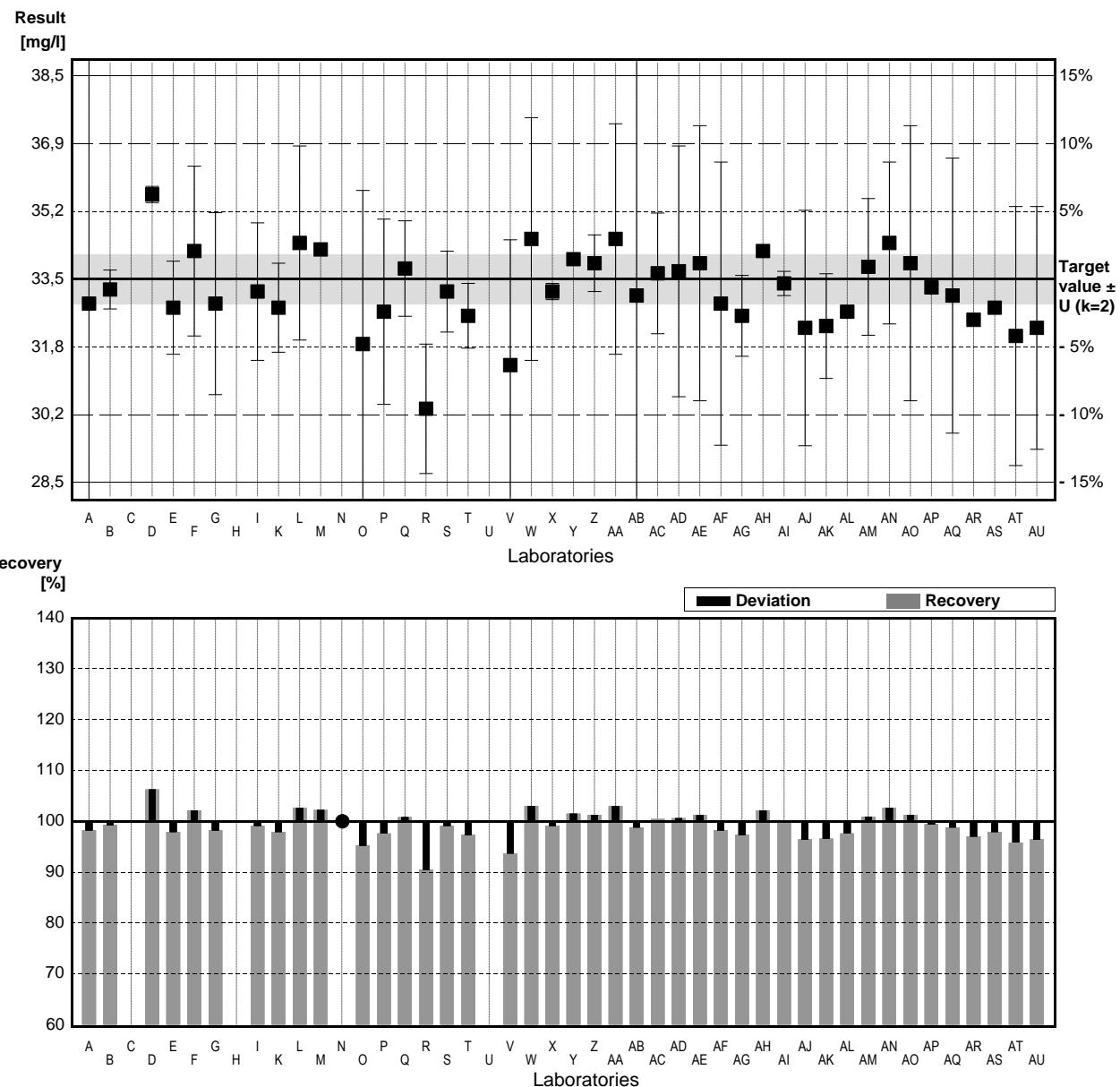
Target value  $\pm U$  ( $k=2$ ) 33,5 mg/l  $\pm$  0,6 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 32,6 mg/l  $\pm$  1,6 mg/l

#### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	32,9	10,9	mg/l	98%	-0,53
B	33,25	0,482	mg/l	99%	-0,22
C			mg/l		
D	35,6	0,2	mg/l	106%	1,84
E	32,8	1,15	mg/l	98%	-0,61
F	34,2	2,1	mg/l	102%	0,61
G	32,9	2,25	mg/l	98%	-0,53
H			mg/l		
I	33,2	1,7	mg/l	99%	-0,26
K	32,8	1,1	mg/l	98%	-0,61
L	34,4	2,4	mg/l	103%	0,79
M	34,24		mg/l	102%	0,65
N	>30		mg/l	*	
O	31,9	3,799	mg/l	95%	-1,40
P	32,7	2,29	mg/l	98%	-0,70
Q	33,77	1,18	mg/l	101%	0,24
R	30,3 *	1,6	mg/l	90%	-2,81
S	33,2	1,0	mg/l	99%	-0,26
T	32,6	0,8	mg/l	97%	-0,79
U			mg/l		
V	31,38	3,1	mg/l	94%	-1,86
W	34,5	3	mg/l	103%	0,88
X	33,2	0,20	mg/l	99%	-0,26
Y	34,0		mg/l	101%	0,44
Z	33,9	0,7	mg/l	101%	0,35
AA	34,5	2,85	mg/l	103%	0,88
AB	33,1	6,289	mg/l	99%	-0,35
AC	33,65	1,491	mg/l	100%	0,13
AD	33,7	3,1	mg/l	101%	0,18
AE	33,9	3,4	mg/l	101%	0,35
AF	32,9	3,5	mg/l	98%	-0,53
AG	32,6	1	mg/l	97%	-0,79
AH	34,2		mg/l	102%	0,61
AI	33,4	0,3	mg/l	100%	-0,09
AJ	32,3	2,91	mg/l	96%	-1,05
AK	32,347	1,2939	mg/l	97%	-1,01
AL	32,7	0,058	mg/l	98%	-0,70
AM	33,81	1,69	mg/l	101%	0,27
AN	34,4	2,0	mg/l	103%	0,79
AO	33,9	3,4	mg/l	101%	0,35
AP	33,3		mg/l	99%	-0,18
AQ	33,1	3,4	mg/l	99%	-0,35
AR	32,5		mg/l	97%	-0,88
AS	32,8		mg/l	98%	-0,61
AT	32,1	3,2	mg/l	96%	-1,23
AU	32,30	3	mg/l	96%	-1,05

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	33,2 $\pm$ 0,4	33,3 $\pm$ 0,4	mg/l
Recov. $\pm$ CI(99%)	99,2 $\pm$ 1,2	99,4 $\pm$ 1,1	%
SD between labs	1,0	0,9	mg/l
RSD between labs	2,9	2,6	%
n for calculation	42	41	



## Sample N153A

### Parameter Nitrite

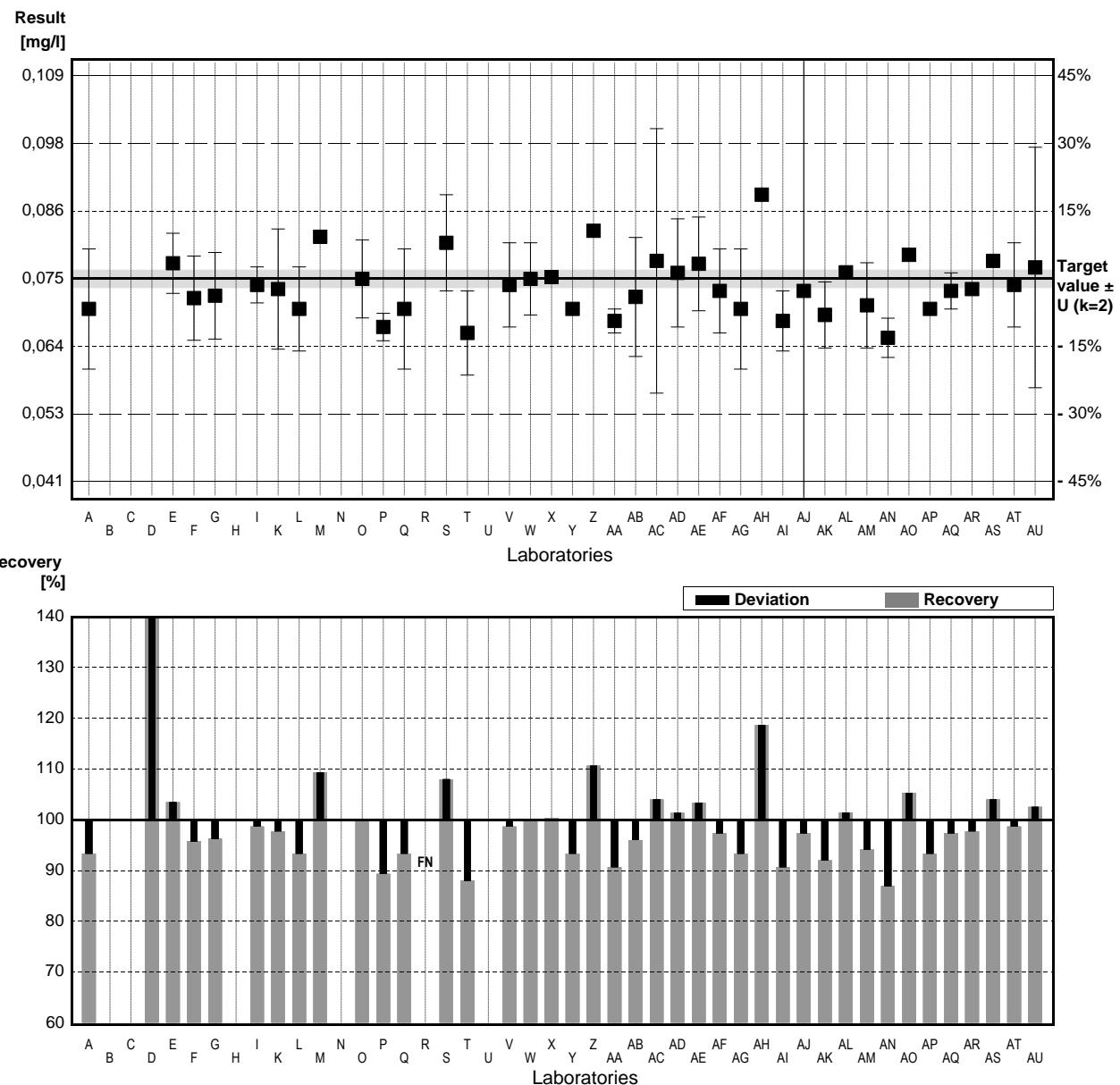
Target value  $\pm U$  ( $k=2$ ) 0,075 mg/l  $\pm$  0,001 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,072 mg/l  $\pm$  0,004 mg/l

Stability test  $\pm U$  ( $k=2$ ) 0,072 mg/l  $\pm$  0,004 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,070	0,010	mg/l	93%	-1,15
B			mg/l		
C			mg/l		
D	0,388 *	0,002	mg/l	517%	71,95
E	0,0776	0,005	mg/l	103%	0,60
F	0,0718	0,0070	mg/l	96%	-0,74
G	0,0722	0,0072	mg/l	96%	-0,64
H			mg/l		
I	0,074	0,003	mg/l	99%	-0,23
K	0,0733	0,01	mg/l	98%	-0,39
L	0,070	0,007	mg/l	93%	-1,15
M	0,082		mg/l	109%	1,61
N			mg/l		
O	0,075	0,0065	mg/l	100%	0,00
P	0,0670	0,00228	mg/l	89%	-1,84
Q	0,070	0,01	mg/l	93%	-1,15
R	<0,0018		mg/l	FN	
S	0,081	0,008	mg/l	108%	1,38
T	0,066	0,007	mg/l	88%	-2,07
U			mg/l		
V	0,074	0,007	mg/l	99%	-0,23
W	0,075	0,006	mg/l	100%	0,00
X	0,0753	0,0008	mg/l	100%	0,07
Y	0,070		mg/l	93%	-1,15
Z	0,083	0,001	mg/l	111%	1,84
AA	0,068	0,002	mg/l	91%	-1,61
AB	0,0720	0,0099	mg/l	96%	-0,69
AC	0,078	0,022	mg/l	104%	0,69
AD	0,076	0,009	mg/l	101%	0,23
AE	0,0775	0,0078	mg/l	103%	0,57
AF	0,073	0,007	mg/l	97%	-0,46
AG	0,070	0,01	mg/l	93%	-1,15
AH	0,089 *		mg/l	119%	3,22
AI	0,068	0,005	mg/l	91%	-1,61
AJ	0,073	0,07	mg/l	97%	-0,46
AK	0,069	0,0055	mg/l	92%	-1,38
AL	0,0761	0,001	mg/l	101%	0,25
AM	0,0706	0,0071	mg/l	94%	-1,01
AN	0,0652	0,00326	mg/l	87%	-2,25
AO	0,079	0,0008	mg/l	105%	0,92
AP	0,070		mg/l	93%	-1,15
AQ	0,073	0,003	mg/l	97%	-0,46
AR	0,07330		mg/l	98%	-0,39
AS	0,078		mg/l	104%	0,69
AT	0,074	0,007	mg/l	99%	-0,23
AU	0,0769	0,02	mg/l	103%	0,44

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,082 $\pm$ 0,021	0,073 $\pm$ 0,002	mg/l
Recov. $\pm$ CI(99%)	108,8 $\pm$ 28,5	97,8 $\pm$ 2,5	%
SD between labs	0,050	0,004	mg/l
RSD between labs	61,2	5,9	%
n for calculation	40	38	



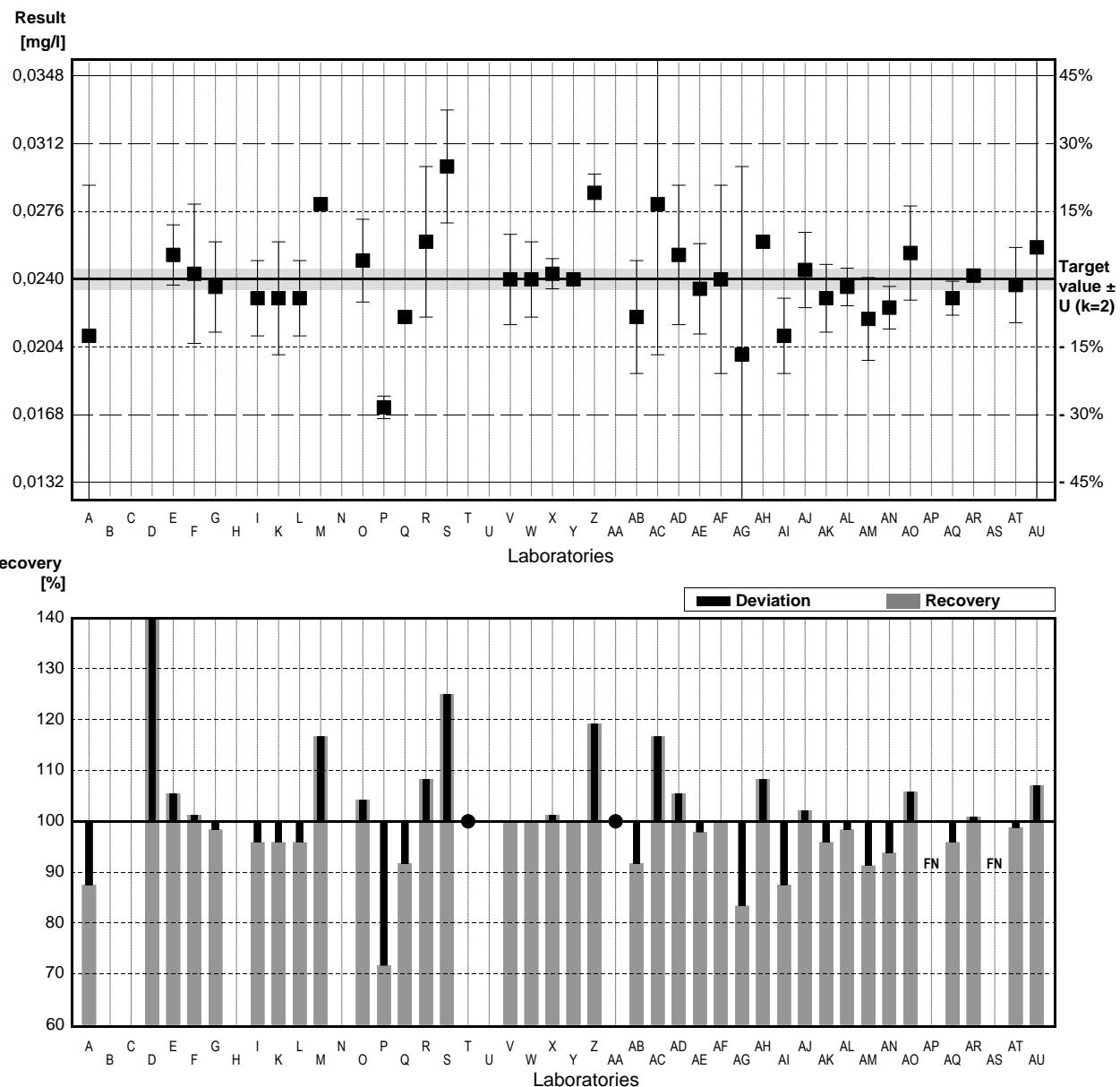
## Sample N153B

### Parameter Nitrite

Target value  $\pm U$  ( $k=2$ ) 0,0240 mg/l  $\pm$  0,0005 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 0,0229 mg/l  $\pm$  0,0011 mg/l  
 Stability test  $\pm U$  ( $k=2$ ) 0,0232 mg/l  $\pm$  0,0012 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,0210	0,0080	mg/l	88%	-2,16
B			mg/l		
C			mg/l		
D	0,219 *	0,025	mg/l	913%	140,09
E	0,0253	0,0016	mg/l	105%	0,93
F	0,0243	0,0037	mg/l	101%	0,22
G	0,0236	0,0024	mg/l	98%	-0,29
H			mg/l		
I	0,0230	0,002	mg/l	96%	-0,72
K	0,0230	0,003	mg/l	96%	-0,72
L	0,0230	0,002	mg/l	96%	-0,72
M	0,0280		mg/l	117%	2,87
N			mg/l		
O	0,0250	0,0022	mg/l	104%	0,72
P	0,0172 *	0,00060	mg/l	72%	-4,89
Q	0,0220	0	mg/l	92%	-1,44
R	0,0260	0,004	mg/l	108%	1,44
S	0,0300 *	0,003	mg/l	125%	4,31
T	<0,050		mg/l	*	
U			mg/l		
V	0,0240	0,0024	mg/l	100%	0,00
W	0,0240	0,002	mg/l	100%	0,00
X	0,0243	0,0008	mg/l	101%	0,22
Y	0,0240		mg/l	100%	0,00
Z	0,0286	0,001	mg/l	119%	3,30
AA	<0,05		mg/l	*	
AB	0,0220	0,0030	mg/l	92%	-1,44
AC	0,0280	0,0080	mg/l	117%	2,87
AD	0,0253	0,0037	mg/l	105%	0,93
AE	0,0235	0,0024	mg/l	98%	-0,36
AF	0,0240	0,005	mg/l	100%	0,00
AG	0,0200	0,01	mg/l	83%	-2,87
AH	0,0260		mg/l	108%	1,44
AI	0,0210	0,002	mg/l	88%	-2,16
AJ	0,0245	0,002	mg/l	102%	0,36
AK	0,0230	0,0018	mg/l	96%	-0,72
AL	0,0236	0,001	mg/l	98%	-0,29
AM	0,0219	0,0022	mg/l	91%	-1,51
AN	0,0225	0,00113	mg/l	94%	-1,08
AO	0,0254	0,0025	mg/l	106%	1,01
AP	<0,02		mg/l	FN	
AQ	0,0230	0,0009	mg/l	96%	-0,72
AR	0,02420		mg/l	101%	0,14
AS	<0,01		mg/l	FN	
AT	0,0237	0,002	mg/l	99%	-0,22
AU	0,0257	0,04	mg/l	107%	1,22

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,0293 $\pm$ 0,0144	0,0240 $\pm$ 0,0009	mg/l
Recov. $\pm$ CI(99%)	121,9 $\pm$ 59,9	100,0 $\pm$ 3,8	%
SD between labs	0,0321	0,0019	mg/l
RSD between labs	109,9	8,1	%
n for calculation	37	34	



## Sample N153A

### Parameter Ammonium

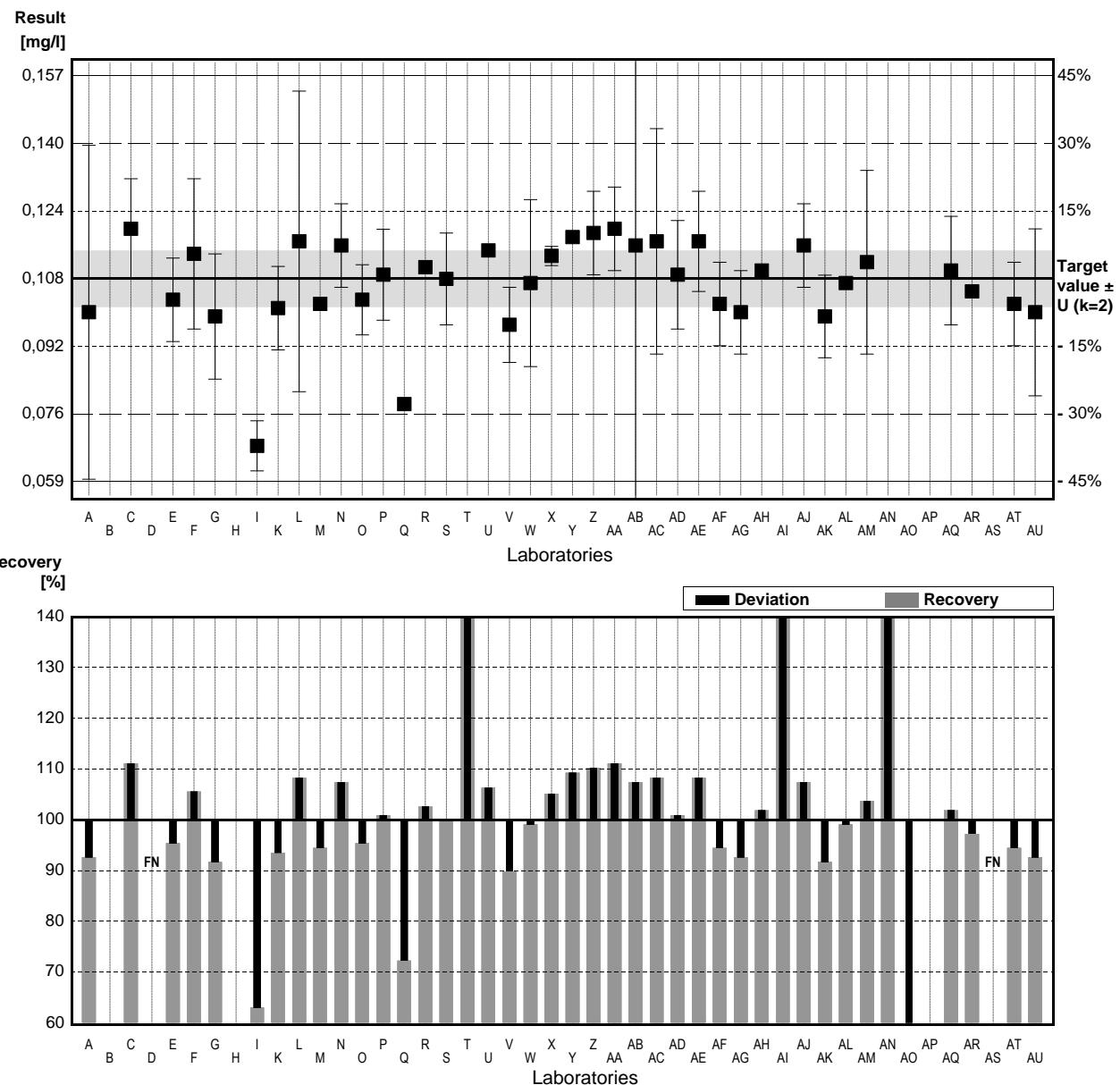
Target value  $\pm U (k=2)$  0.108 mg/l  $\pm$  0,007 mg/l

IFA result  $\pm U (k=2)$  0,109 mg/l  $\pm$  0,008 mg/l

Stability test  $\pm U (k=2)$  0,112 mg/l  $\pm$  0,008 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0.100	0.040	mg/l	93%	-0.57
B			mg/l		
C	0.120	0.012	mg/l	111%	0.85
D	<0.08		mg/l	FN	
E	0.103	0.010	mg/l	95%	-0.36
F	0.114	0.018	mg/l	106%	0.43
G	0.099	0.015	mg/l	92%	-0.64
H			mg/l		
I	0.068 *	0.006	mg/l	63%	-2.85
K	0.101	0.01	mg/l	94%	-0.50
L	0.117	0.036	mg/l	108%	0.64
M	0.102		mg/l	94%	-0.43
N	0.116	0.01	mg/l	107%	0.57
O	0.103	0.0084	mg/l	95%	-0.36
P	0.109	0.0109	mg/l	101%	0.07
Q	0.078	0.00	mg/l	72%	-2.14
R	0.1108	0.001	mg/l	103%	0.20
S	0.108	0.011	mg/l	100%	0.00
T	0.170 *	0.061	mg/l	157%	4.42
U	0.1148		mg/l	106%	0.48
V	0.097	0.009	mg/l	90%	-0.78
W	0.107	0.02	mg/l	99%	-0.07
X	0.1135	0.0023	mg/l	105%	0.39
Y	0.118		mg/l	109%	0.71
Z	0.119	0.01	mg/l	110%	0.78
AA	0.120	0.010	mg/l	111%	0.85
AB	0.1160	0.3874	mg/l	107%	0.57
AC	0.117	0.027	mg/l	108%	0.64
AD	0.109	0.013	mg/l	101%	0.07
AE	0.117	0.012	mg/l	108%	0.64
AF	0.102	0.010	mg/l	94%	-0.43
AG	0.100	0.01	mg/l	93%	-0.57
AH	0.110		mg/l	102%	0.14
AI	0.174 *	0.06	mg/l	161%	4.70
AJ	0.116	0.01	mg/l	107%	0.57
AK	0.099	0.0099	mg/l	92%	-0.64
AL	0.107	0.001	mg/l	99%	-0.07
AM	0.112	0.022	mg/l	104%	0.28
AN	0.161 *	0.029	mg/l	149%	3.77
AO	0.0112 *	0.001	mg/l	10%	-6.89
AP			mg/l		
AQ	0.110	0.013	mg/l	102%	0.14
AR	0.1050		mg/l	97%	-0.21
AS	<0.1		mg/l	FN	
AT	0.102	0.010	mg/l	94%	-0.43
AU	0.100	0.02	mg/l	93%	-0.57

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,109 $\pm$ 0,010	0,108 $\pm$ 0,004	mg/l
Recov. $\pm$ CI(99%)	101,1 $\pm$ 9,7	100,1 $\pm$ 3,7	%
SD between labs	0,025	0,009	mg/l
RSD between labs	22,7	8,1	%
n for calculation	41	36	



## Sample N153B

### Parameter Ammonium

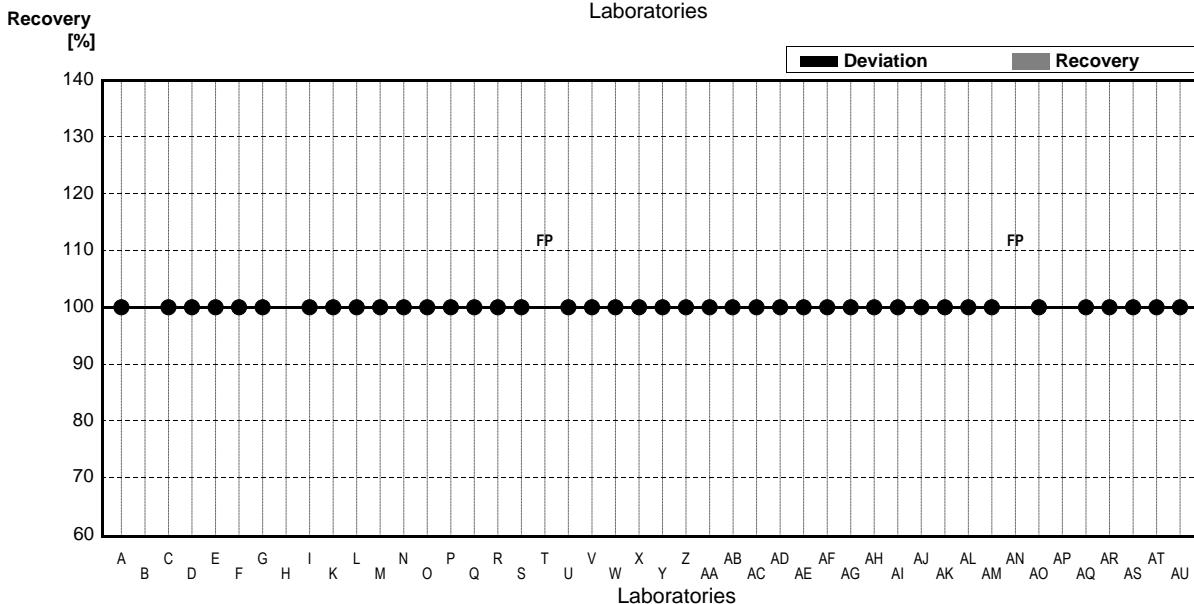
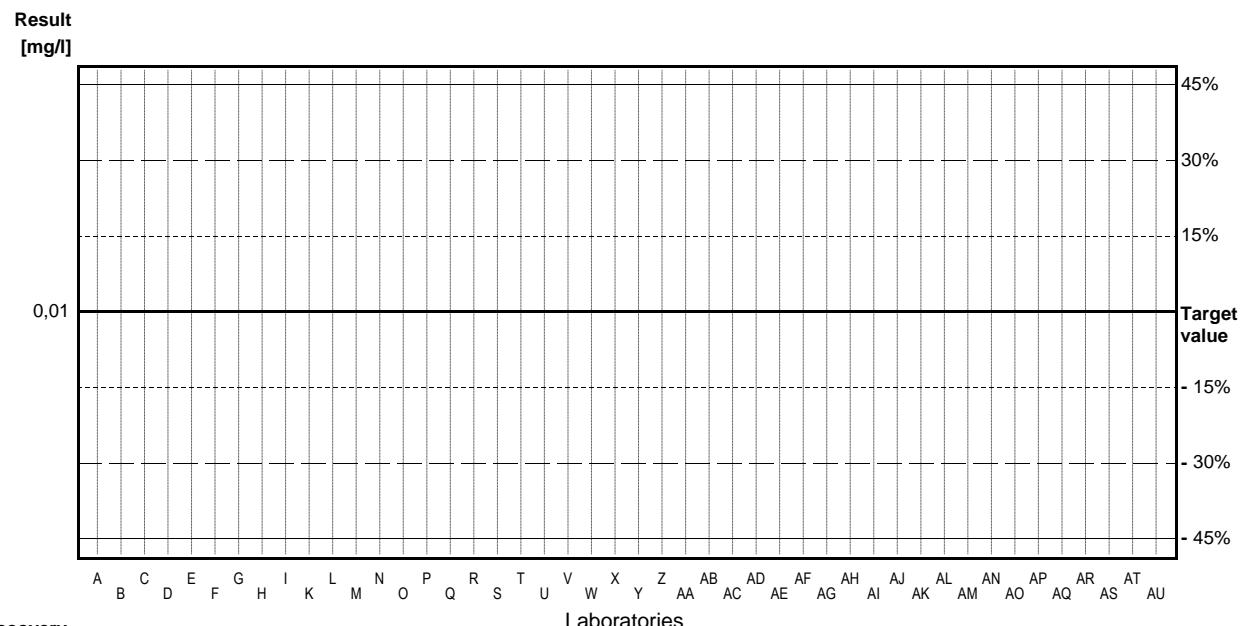
Target value <0,01 mg/l

IFA result <0,01 mg/l

Stability test <0,01 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	<0,040		mg/l	.	
B			mg/l	.	
C	<0,05		mg/l	.	
D	<0,08		mg/l	.	
E	<0,01		mg/l	.	
F	<0,010		mg/l	.	
G	<0,005	0	mg/l	.	
H			mg/l	.	
I	<0,010	0,003	mg/l	.	
K	<0,01		mg/l	.	
L	<0,02	0,006	mg/l	.	
M	<0,06		mg/l	.	
N	<0,01		mg/l	.	
O	0,0063	0,0005	mg/l	.	
P	<0,05	0	mg/l	.	
Q	<0,005	0	mg/l	.	
R	<0,04		mg/l	.	
S	<0,030		mg/l	.	
T	0,136	0,005	mg/l	FP	
U	<0,0200		mg/l	.	
V	<0,0090		mg/l	.	
W	<0,013		mg/l	.	
X	0,0031		mg/l	.	
Y	<0,042		mg/l	.	
Z	<0,01		mg/l	.	
AA	<0,05		mg/l	.	
AB	'0,0110	0,00367	mg/l	.	
AC	<0,0120		mg/l	.	
AD	<0,008		mg/l	.	
AE	<0,01		mg/l	.	
AF	<0,010		mg/l	.	
AG	<0,02	0,01	mg/l	.	
AH	<0,03		mg/l	.	
AI	<0,01		mg/l	.	
AJ	<0,0100		mg/l	.	
AK	<0,0006		mg/l	.	
AL	<0,010		mg/l	.	
AM	<0,013		mg/l	.	
AN	0,092	0,017	mg/l	FP	
AO	<0,01		mg/l	.	
AP			mg/l	.	
AQ	<0,01		mg/l	.	
AR	0,0080		mg/l	.	
AS	<0,1		mg/l	.	
AT	<0,01		mg/l	.	
AU	<0,05		mg/l	.	

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)			mg/l
Recov. $\pm$ CI(99%)			%
SD between labs			mg/l
RSD between labs			%
n for calculation			



# Sample N153A

## Parameter Chloride

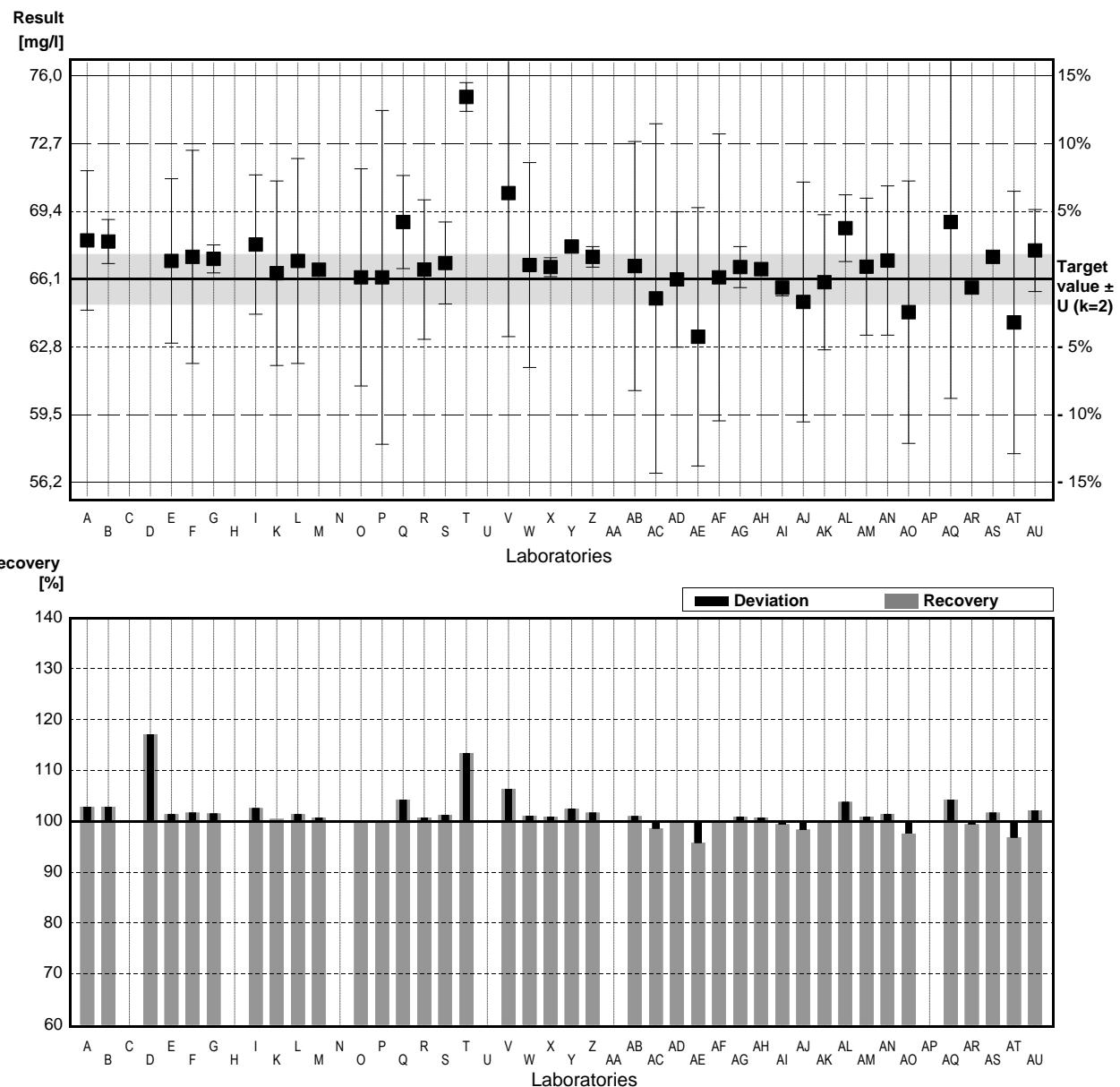
Target value  $\pm U$  ( $k=2$ ) 66,1 mg/l  $\pm$  1,2 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 64,5 mg/l  $\pm$  3,2 mg/l

### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	68,0	3,4	mg/l	103%	0,90
B	67,95	1,074	mg/l	103%	0,87
C			mg/l		
D	77,4 *	0,3	mg/l	117%	5,34
E	67,0	4,01	mg/l	101%	0,43
F	67,2	5,2	mg/l	102%	0,52
G	67,1	0,68	mg/l	102%	0,47
H			mg/l		
I	67,8	3,4	mg/l	103%	0,80
K	66,4	4,5	mg/l	100%	0,14
L	67	5	mg/l	101%	0,43
M	66,57		mg/l	101%	0,22
N			mg/l		
O	66,2	5,296	mg/l	100%	0,05
P	66,2	8,14	mg/l	100%	0,05
Q	68,90	2,27	mg/l	104%	1,32
R	66,58	3,4	mg/l	101%	0,23
S	66,9	2,0	mg/l	101%	0,38
T	75,0 *	0,7	mg/l	113%	4,21
U			mg/l		
V	70,31 *	7,0	mg/l	106%	1,99
W	66,8	5	mg/l	101%	0,33
X	66,7	0,46	mg/l	101%	0,28
Y	67,7		mg/l	102%	0,76
Z	67,2	0,5	mg/l	102%	0,52
AA			mg/l		
AB	66,75	6,07425	mg/l	101%	0,31
AC	65,17	8,524	mg/l	99%	-0,44
AD	66,1	3,3	mg/l	100%	0,00
AE	63,3 *	6,3	mg/l	96%	-1,32
AF	66,2	7,0	mg/l	100%	0,05
AG	66,7	1	mg/l	101%	0,28
AH	66,6		mg/l	101%	0,24
AI	65,7	0,4	mg/l	99%	-0,19
AJ	65	5,85	mg/l	98%	-0,52
AK	65,96	3,298	mg/l	100%	-0,07
AL	68,6	1,626	mg/l	104%	1,18
AM	66,72	3,34	mg/l	101%	0,29
AN	67,02	3,64	mg/l	101%	0,43
AO	64,5	6,4	mg/l	98%	-0,76
AP			mg/l		
AQ	68,9	8,6	mg/l	104%	1,32
AR	65,7		mg/l	99%	-0,19
AS	67,2		mg/l	102%	0,52
AT	64	6,4	mg/l	97%	-0,99
AU	67,51	2	mg/l	102%	0,67

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	67,2 $\pm$ 1,1	66,7 $\pm$ 0,5	mg/l
Recov. $\pm$ CI(99%)	101,7 $\pm$ 1,6	101,0 $\pm$ 0,8	%
SD between labs	2,5	1,1	mg/l
RSD between labs	3,7	1,6	%
n for calculation	40	36	



## Sample N153B

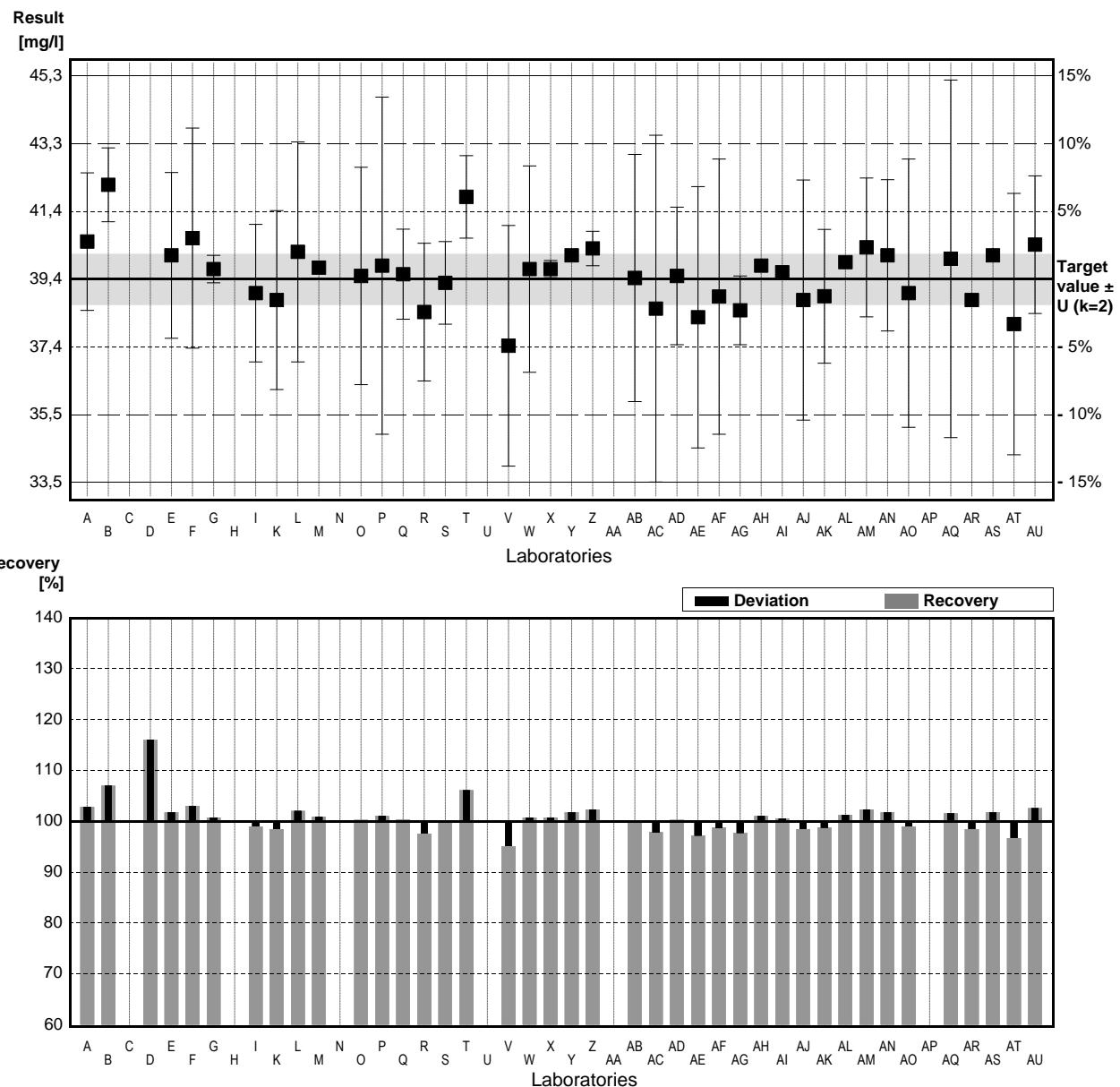
### Parameter Chloride

Target value  $\pm U$  ( $k=2$ ) 39,4 mg/l  $\pm$  0,7 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 38,8 mg/l  $\pm$  1,9 mg/l

#### Stability test

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	40,5	2,0	mg/l	103%	0,87
B	42,15	1,074	mg/l	107%	2,18
C			mg/l		
D	45,7 *	0,5	mg/l	116%	5,00
E	40,1	2,41	mg/l	102%	0,56
F	40,6	3,2	mg/l	103%	0,95
G	39,7	0,40	mg/l	101%	0,24
H			mg/l		
I	39,0	2,0	mg/l	99%	-0,32
K	38,8	2,6	mg/l	98%	-0,48
L	40,2	3,2	mg/l	102%	0,63
M	39,74		mg/l	101%	0,27
N			mg/l		
O	39,5	3,160	mg/l	100%	0,08
P	39,8	4,90	mg/l	101%	0,32
Q	39,55	1,31	mg/l	100%	0,12
R	38,45	2	mg/l	98%	-0,75
S	39,3	1,2	mg/l	100%	-0,08
T	41,8	1,2	mg/l	106%	1,90
U			mg/l		
V	37,47	3,5	mg/l	95%	-1,53
W	39,7	3	mg/l	101%	0,24
X	39,7	0,25	mg/l	101%	0,24
Y	40,1		mg/l	102%	0,56
Z	40,3	0,5	mg/l	102%	0,71
AA			mg/l		
AB	39,44	3,594	mg/l	100%	0,03
AC	38,55	5,042	mg/l	98%	-0,67
AD	39,5	2,0	mg/l	100%	0,08
AE	38,3	3,8	mg/l	97%	-0,87
AF	38,9	4,0	mg/l	99%	-0,40
AG	38,5	1	mg/l	98%	-0,71
AH	39,8		mg/l	101%	0,32
AI	39,6	0,2	mg/l	101%	0,16
AJ	38,8	3,49	mg/l	98%	-0,48
AK	38,91	1,946	mg/l	99%	-0,39
AL	39,9	0,058	mg/l	101%	0,40
AM	40,33	2,02	mg/l	102%	0,74
AN	40,1	2,2	mg/l	102%	0,56
AO	39,0	3,9	mg/l	99%	-0,32
AP			mg/l		
AQ	40,0	5,2	mg/l	102%	0,48
AR	38,8		mg/l	98%	-0,48
AS	40,1		mg/l	102%	0,56
AT	38,1	3,8	mg/l	97%	-1,03
AU	40,41	2	mg/l	103%	0,80

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	39,7 $\pm$ 0,6	39,6 $\pm$ 0,4	mg/l
Recov. $\pm$ CI(99%)	100,8 $\pm$ 1,4	100,4 $\pm$ 1,0	%
SD between labs	1,3	0,9	mg/l
RSD between labs	3,3	2,3	%
n for calculation	40	39	



## Sample N153A

### Parameter Sulphate

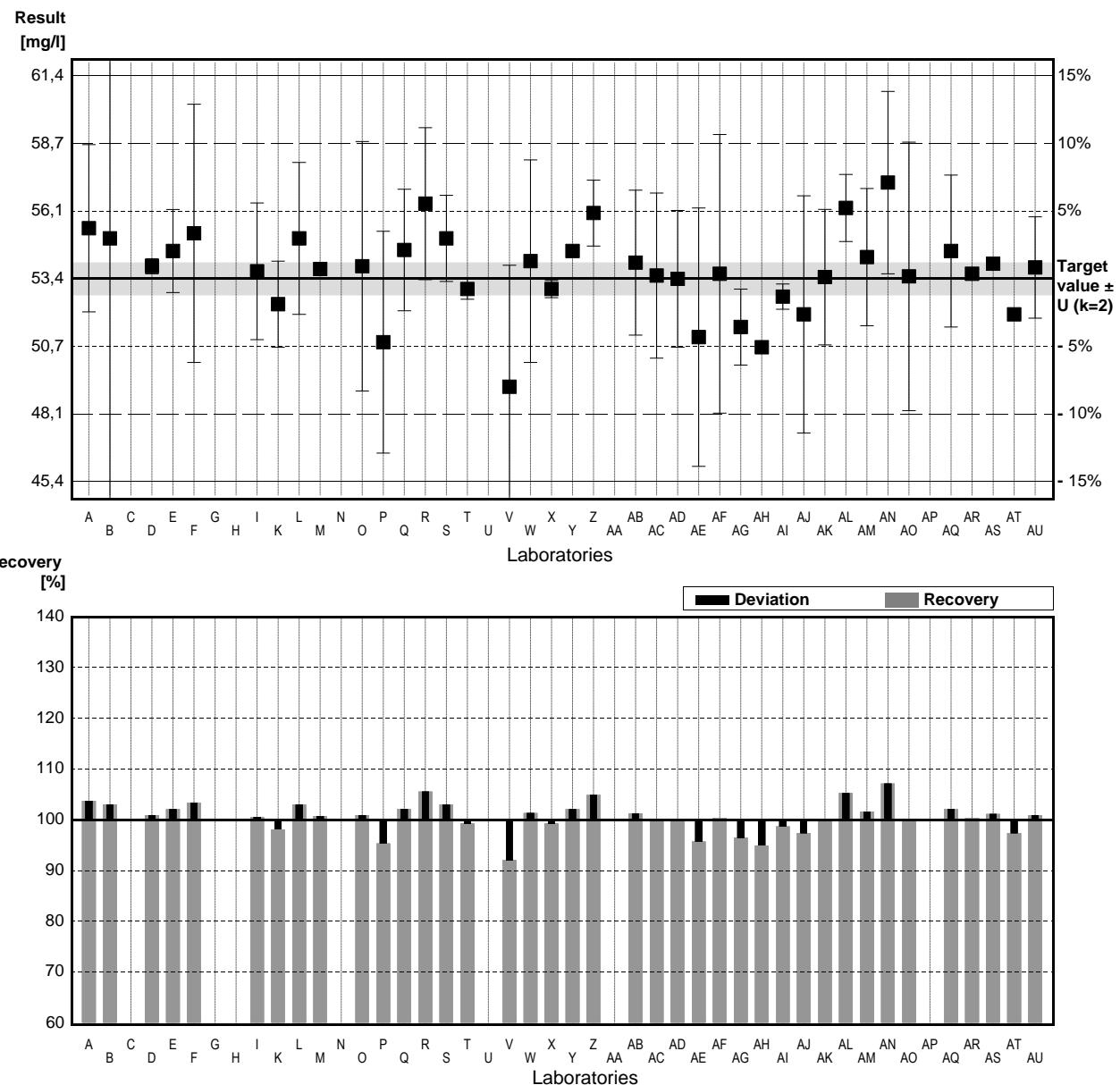
Target value  $\pm U$  ( $k=2$ ) 53,4 mg/l  $\pm$  0,6 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 53,0 mg/l  $\pm$  2,1 mg/l

#### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	55,4	3,3	mg/l	104%	1,21
B	55,0	10,0	mg/l	103%	0,97
C			mg/l		
D	53,9	0,3	mg/l	101%	0,30
E	54,5	1,64	mg/l	102%	0,66
F	55,2	5,1	mg/l	103%	1,09
G			mg/l		
H			mg/l		
I	53,7	2,7	mg/l	101%	0,18
K	52,4	1,7	mg/l	98%	-0,60
L	55	3	mg/l	103%	0,97
M	53,79		mg/l	101%	0,24
N			mg/l		
O	53,9	4,926	mg/l	101%	0,30
P	50,9	4,38	mg/l	95%	-1,51
Q	54,54	2,4	mg/l	102%	0,69
R	56,37	3	mg/l	106%	1,79
S	55,0	1,7	mg/l	103%	0,97
T	53,0	0,4	mg/l	99%	-0,24
U			mg/l		
V	49,14 *	4,8	mg/l	92%	-2,57
W	54,1	4	mg/l	101%	0,42
X	53,0	0,34	mg/l	99%	-0,24
Y	54,5		mg/l	102%	0,66
Z	56,0	1,3	mg/l	105%	1,57
AA			mg/l		
AB	54,04	2,86	mg/l	101%	0,39
AC	53,53	3,260	mg/l	100%	0,08
AD	53,4	2,7	mg/l	100%	0,00
AE	51,1	5,1	mg/l	96%	-1,39
AF	53,6	5,5	mg/l	100%	0,12
AG	51,5	1,5	mg/l	96%	-1,15
AH	50,7		mg/l	95%	-1,63
AI	52,7	0,5	mg/l	99%	-0,42
AJ	52	4,68	mg/l	97%	-0,85
AK	53,47	2,674	mg/l	100%	0,04
AL	56,2	1,322	mg/l	105%	1,69
AM	54,26	2,71	mg/l	102%	0,52
AN	57,2	3,6	mg/l	107%	2,30
AO	53,5	5,3	mg/l	100%	0,06
AP			mg/l		
AQ	54,5	3,0	mg/l	102%	0,66
AR	53,6		mg/l	100%	0,12
AS	54,0		mg/l	101%	0,36
AT	52		mg/l	97%	-0,85
AU	53,85	2	mg/l	101%	0,27

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	53,7 $\pm$ 0,7	53,8 $\pm$ 0,7	mg/l
Recov. $\pm$ CI(99%)	100,6 $\pm$ 1,3	100,8 $\pm$ 1,2	%
SD between labs	1,7	1,5	mg/l
RSD between labs	3,1	2,8	%
n for calculation	39	38	



## Sample N153B

### Parameter Sulphate

Target value  $\pm U$  ( $k=2$ ) 32,0 mg/l  $\pm$  0,4 mg/l

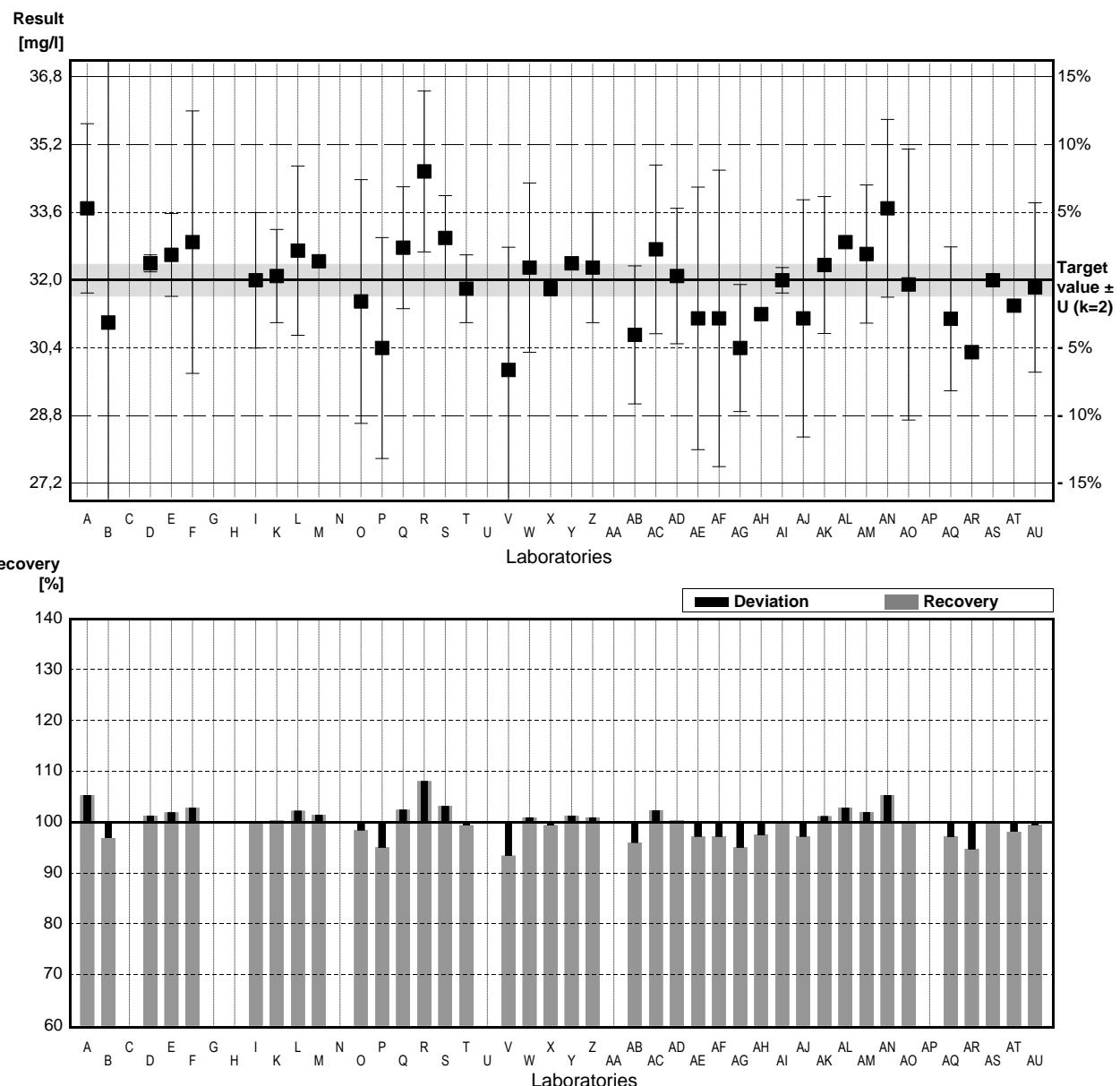
IFA result  $\pm U$  ( $k=2$ ) 32,0 mg/l  $\pm$  1,3 mg/l

#### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	33,7	2,0	mg/l	105%	1,71
B	31,0	10,0	mg/l	97%	-1,01
C			mg/l		
D	32,4	0,2	mg/l	101%	0,40
E	32,6	0,98	mg/l	102%	0,60
F	32,9	3,1	mg/l	103%	0,91
G			mg/l		
H			mg/l		
I	32,0	1,6	mg/l	100%	0,00
K	32,1	1,1	mg/l	100%	0,10
L	32,7	2,0	mg/l	102%	0,71
M	32,45		mg/l	101%	0,45
N			mg/l		
O	31,5	2,879	mg/l	98%	-0,50
P	30,4	2,61	mg/l	95%	-1,61
Q	32,77	1,44	mg/l	102%	0,78
R	34,57	1,9	mg/l	108%	2,59
S	33,0	1,0	mg/l	103%	1,01
T	31,8	0,8	mg/l	99%	-0,20
U			mg/l		
V	29,88	2,9	mg/l	93%	-2,14
W	32,3	2	mg/l	101%	0,30
X	31,8	0,17	mg/l	99%	-0,20
Y	32,4		mg/l	101%	0,40
Z	32,3	1,3	mg/l	101%	0,30
AA			mg/l		
AB	30,71	1,63	mg/l	96%	-1,30
AC	32,73	1,993	mg/l	102%	0,74
AD	32,1	1,6	mg/l	100%	0,10
AE	31,1	3,1	mg/l	97%	-0,91
AF	31,1	3,5	mg/l	97%	-0,91
AG	30,4	1,5	mg/l	95%	-1,61
AH	31,2		mg/l	98%	-0,81
AI	32,0	0,3	mg/l	100%	0,00
AJ	31,1	2,8	mg/l	97%	-0,91
AK	32,36	1,618	mg/l	101%	0,36
AL	32,9	0,058	mg/l	103%	0,91
AM	32,62	1,63	mg/l	102%	0,62
AN	33,7	2,1	mg/l	105%	1,71
AO	31,9	3,2	mg/l	100%	-0,10
AP			mg/l		
AQ	31,09	1,7	mg/l	97%	-0,92
AR	30,3		mg/l	95%	-1,71
AS	32,0		mg/l	100%	0,00
AT	31,4		mg/l	98%	-0,60
AU	31,83	2	mg/l	99%	-0,17

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	32,0 $\pm$ 0,4	32,0 $\pm$ 0,4	mg/l
Recov. $\pm$ CI(99%)	99,9 $\pm$ 1,4	99,9 $\pm$ 1,4	%
SD between labs	1,0	1,0	mg/l
RSD between labs	3,1	3,1	%
n for calculation	39	39	



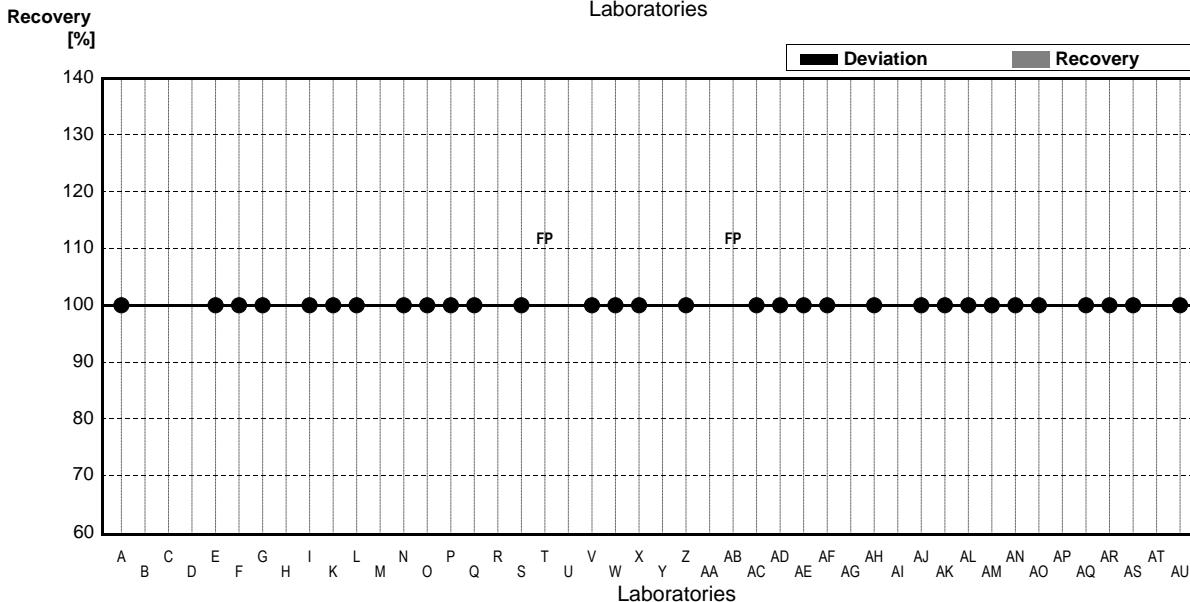
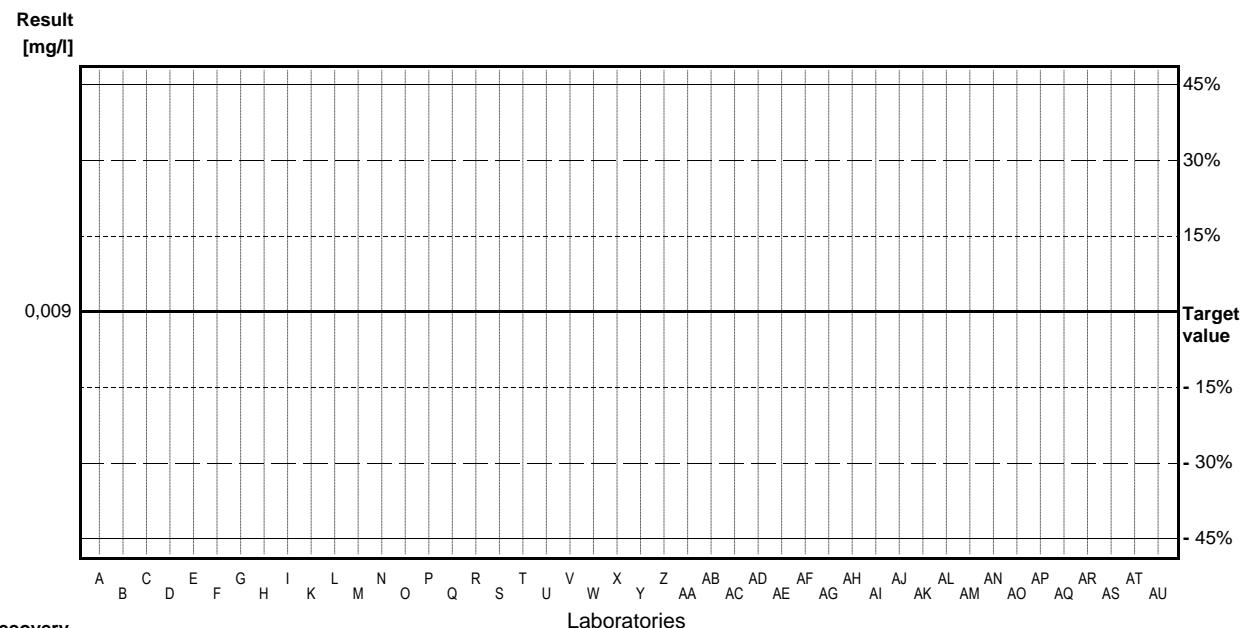
## Sample N153A

### 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	<0,020		mg/l	.	
B			mg/l		
C			mg/l		
D			mg/l		
E	<0,01		mg/l	.	
F	<0,010		mg/l	.	
G	<0,006	0	mg/l	.	
H			mg/l		
I	<0,015	0,003	mg/l	.	
K	<0,015		mg/l	.	
L	<0,009	0,001	mg/l	.	
M			mg/l		
N	<0,019		mg/l	.	
O	0,0089	0,0013	mg/l	.	
P	<0,01	0	mg/l	.	
Q	<0,003	0	mg/l	.	
R			mg/l		
S	<0,020		mg/l	.	
T	0,190	0,023	mg/l	FP	
U			mg/l		
V	<0,0055		mg/l	.	
W	<0,01		mg/l	.	
X	<0,015		mg/l	.	
Y			mg/l		
Z	<0,01		mg/l	.	
AA			mg/l		
AB	0,0200	0,0061	mg/l	FP	
AC	<0,0150		mg/l	.	
AD	<0,006		mg/l	.	
AE	<0,008		mg/l	.	
AF	<0,010		mg/l	.	
AG			mg/l		
AH	<0,02		mg/l	.	
AI			mg/l		
AJ	<0,0100		mg/l	.	
AK	<0,0061		mg/l	.	
AL	<0,015		mg/l	.	
AM	<0,015		mg/l	.	
AN	<0,005		mg/l	.	
AO	<0,02		mg/l	.	
AP			mg/l		
AQ	0,00310	0,0004	mg/l	.	
AR	0,00554		mg/l	.	
AS	<0,05		mg/l	.	
AT			mg/l		
AU	<0,03		mg/l	.	

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)			mg/l
Recov. $\pm$ CI(99%)			%
SD between labs			mg/l
RSD between labs			%
n for calculation			



## Sample N153B

### Parameter Orthophosphate

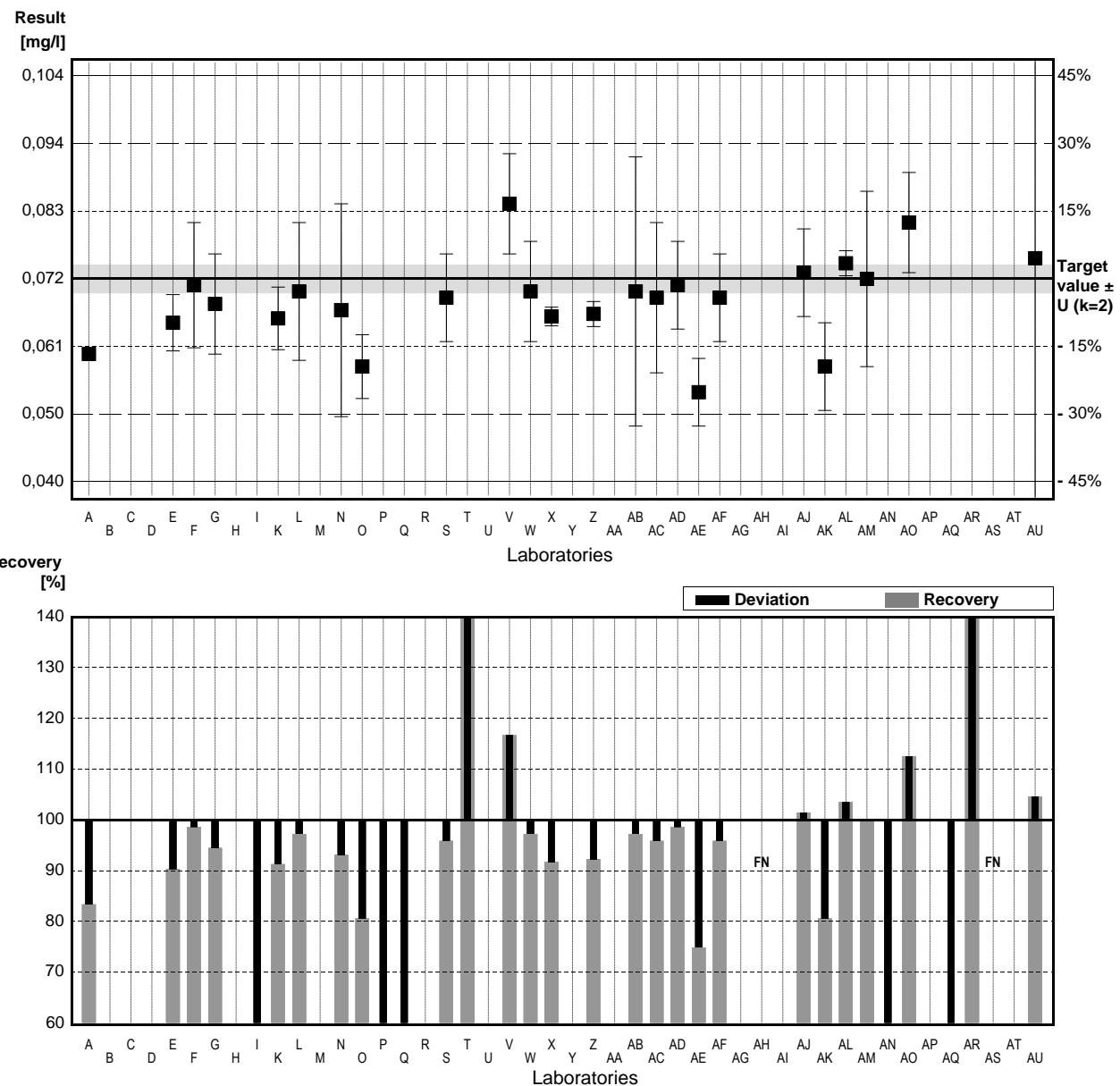
Target value  $\pm$  U (k=2) 0.072 mg/l  $\pm$  0,002 mg/l

IFA result  $\pm$  U (k=2) 0,073 mg/l  $\pm$  0,003 mg/l

Stability test  $\pm$  U (k=2) 0,072 mg/l  $\pm$  0,003 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,060		mg/l	83%	-1,67
B			mg/l		
C			mg/l		
D			mg/l		
E	0,065	0,0045	mg/l	90%	-0,97
F	0,071	0,010	mg/l	99%	-0,14
G	0,068	0,008	mg/l	94%	-0,56
H			mg/l		
I	0,0230 *	0,003	mg/l	32%	-6,81
K	0,0657	0,005	mg/l	91%	-0,88
L	0,070	0,011	mg/l	97%	-0,28
M			mg/l		
N	0,067	0,017	mg/l	93%	-0,69
O	0,0580	0,0051	mg/l	81%	-1,94
P	0,0306 *	0,00306	mg/l	43%	-5,75
Q	0,0220 *	0	mg/l	31%	-6,94
R			mg/l		
S	0,069	0,007	mg/l	96%	-0,42
T	0,337 *	0,043	mg/l	468%	36,81
U			mg/l		
V	0,084	0,008	mg/l	117%	1,67
W	0,070	0,008	mg/l	97%	-0,28
X	0,066	0,0015	mg/l	92%	-0,83
Y			mg/l		
Z	0,0664	0,002	mg/l	92%	-0,78
AA			mg/l		
AB	0,0700	0,0215	mg/l	97%	-0,28
AC	0,069	0,012	mg/l	96%	-0,42
AD	0,071	0,007	mg/l	99%	-0,14
AE	0,0539	0,0054	mg/l	75%	-2,51
AF	0,069	0,007	mg/l	96%	-0,42
AG			mg/l		
AH	<0,02		mg/l	FN	
AI			mg/l		
AJ	0,073	0,007	mg/l	101%	0,14
AK	0,058	0,007	mg/l	81%	-1,94
AL	0,0745	0,002	mg/l	103%	0,35
AM	0,072	0,014	mg/l	100%	0,00
AN	0,0090 *	0,0018	mg/l	13%	-8,75
AO	0,081	0,008	mg/l	113%	1,25
AP			mg/l		
AQ	0,0240 *	0,003	mg/l	33%	-6,67
AR	0,22980 *		mg/l	319%	21,92
AS	<0,05		mg/l	FN	
AT			mg/l		
AU	0,0753	0,1	mg/l	105%	0,46

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,075 $\pm$ 0,030	0,069 $\pm$ 0,004	mg/l
Recov. $\pm$ CI(99%)	104,0 $\pm$ 41,4	95,3 $\pm$ 5,4	%
SD between labs	0,060	0,007	mg/l
RSD between labs	80,5	9,9	%
n for calculation	31	24	



## Sample N153A

### Parameter Boron

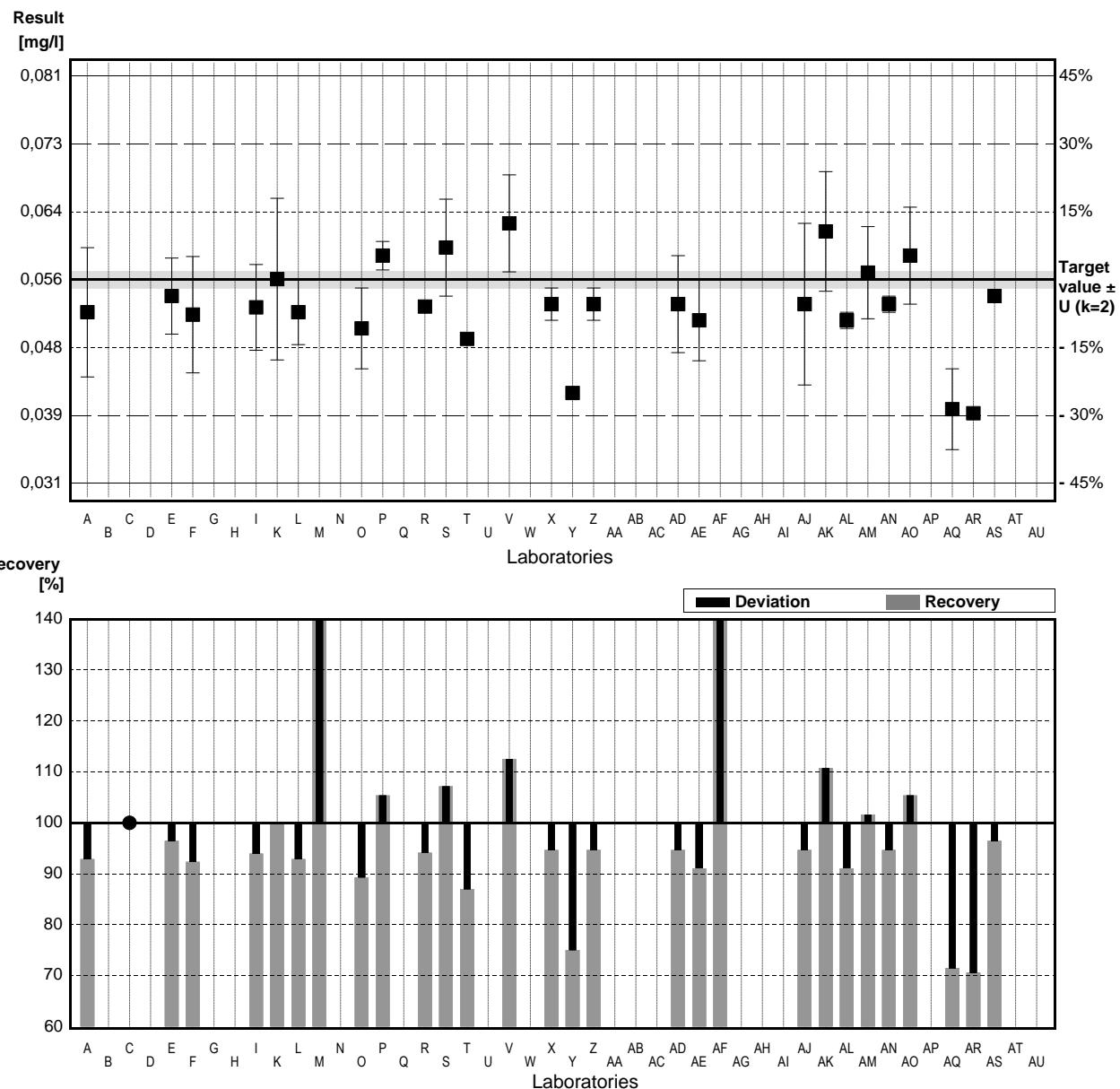
Target value  $\pm$  U (k=2) 0,056 mg/l  $\pm$  0,001 mg/l  
 IFA result  $\pm$  U (k=2) 0,055 mg/l  $\pm$  0,006 mg/l

#### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,052	0,008	mg/l	93%	-0,83
B			mg/l		
C	<0,1		mg/l	*	
D			mg/l		
E	0,054	0,0047	mg/l	96%	-0,42
F	0,0517	0,0072	mg/l	92%	-0,89
G			mg/l		
H			mg/l		
I	0,0526	0,0053	mg/l	94%	-0,71
K	0,0561	0,01	mg/l	100%	0,02
L	0,052	0,004	mg/l	93%	-0,83
M	0,0970 *		mg/l	173%	8,51
N			mg/l		
O	0,050	0,005	mg/l	89%	-1,25
P	0,0590	0,00176	mg/l	105%	0,62
Q			mg/l		
R	0,0527	0,0003	mg/l	94%	-0,69
S	0,060	0,006	mg/l	107%	0,83
T	0,0487	0,0005	mg/l	87%	-1,52
U			mg/l		
V	0,063	0,006	mg/l	113%	1,45
W			mg/l		
X	0,053	0,002	mg/l	95%	-0,62
Y	0,0420		mg/l	75%	-2,91
Z	0,053	0,002	mg/l	95%	-0,62
AA			mg/l		
AB			mg/l		
AC			mg/l		
AD	0,053	0,006	mg/l	95%	-0,62
AE	0,051	0,005	mg/l	91%	-1,04
AF	51,8 *	7,8	mg/l	92500%	10744,19
AG			mg/l		
AH			mg/l		
AI			mg/l		
AJ	0,053	0,01	mg/l	95%	-0,62
AK	0,062	0,0074	mg/l	111%	1,25
AL	0,0510	0,001	mg/l	91%	-1,04
AM	0,0569	0,0057	mg/l	102%	0,19
AN	0,053	0,001	mg/l	95%	-0,62
AO	0,059	0,006	mg/l	105%	0,62
AP			mg/l		
AQ	0,0400 *	0,005	mg/l	71%	-3,32
AR	0,0395 *		mg/l	71%	-3,43
AS	0,054		mg/l	96%	-0,42
AT			mg/l		
AU			mg/l		

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	1,902 $\pm$ 5,119	0,054 $\pm$ 0,003	mg/l
Recov. $\pm$ CI(99%)	3397,3 $\pm$ 9141,3	96,2 $\pm$ 4,6	%
SD between labs	9,779	0,005	mg/l
RSD between labs	514,0	8,4	%
n for calculation	28	24	



## Sample N153B

### Parameter Boron

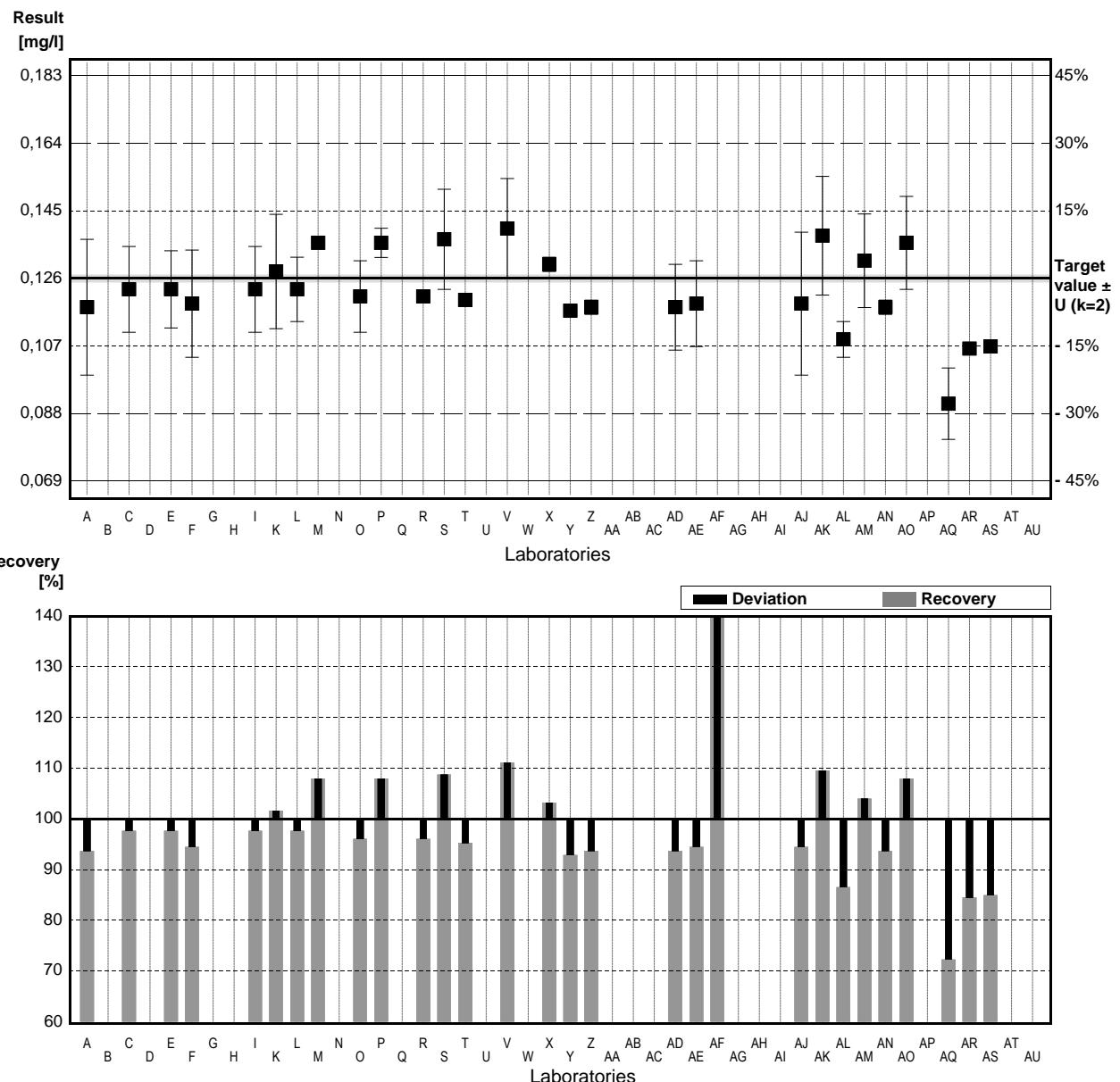
Target value  $\pm$  U (k=2) 0,126 mg/l  $\pm$  0,001 mg/l  
 IFA result  $\pm$  U (k=2) 0,126 mg/l  $\pm$  0,013 mg/l

#### Stability test

mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,118	0,019	mg/l	94%	-0,74
B			mg/l		
C	0,123	0,012	mg/l	98%	-0,28
D			mg/l		
E	0,123	0,0108	mg/l	98%	-0,28
F	0,119	0,015	mg/l	94%	-0,65
G			mg/l		
H			mg/l		
I	0,123	0,012	mg/l	98%	-0,28
K	0,128	0,016	mg/l	102%	0,18
L	0,123	0,009	mg/l	98%	-0,28
M	0,136		mg/l	108%	0,92
N			mg/l		
O	0,121	0,01	mg/l	96%	-0,46
P	0,136	0,00408	mg/l	108%	0,92
Q			mg/l		
R	0,121	0,0014	mg/l	96%	-0,46
S	0,137	0,014	mg/l	109%	1,02
T	0,1200	0,0005	mg/l	95%	-0,55
U			mg/l		
V	0,140 *	0,014	mg/l	111%	1,29
W			mg/l		
X	0,130	0,002	mg/l	103%	0,37
Y	0,117		mg/l	93%	-0,83
Z	0,118	0,002	mg/l	94%	-0,74
AA			mg/l		
AB			mg/l		
AC			mg/l		
AD	0,118	0,012	mg/l	94%	-0,74
AE	0,119	0,012	mg/l	94%	-0,65
AF	117 *	18	mg/l	92857%	10785,71
AG			mg/l		
AH			mg/l		
AI			mg/l		
AJ	0,119	0,02	mg/l	94%	-0,65
AK	0,138	0,0166	mg/l	110%	1,11
AL	0,109	0,005	mg/l	87%	-1,57
AM	0,131	0,0131	mg/l	104%	0,46
AN	0,118	0,002	mg/l	94%	-0,74
AO	0,136	0,013	mg/l	108%	0,92
AP			mg/l		
AQ	0,0910 *	0,01	mg/l	72%	-3,23
AR	0,1064		mg/l	84%	-1,81
AS	0,107		mg/l	85%	-1,75
AT			mg/l		
AU			mg/l		

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	4,153 $\pm$ 11,124	0,123 $\pm$ 0,005	mg/l
Recov. $\pm$ CI(99%)	3295,7 $\pm$ 8828,2	97,5 $\pm$ 3,9	%
SD between labs	21,704	0,009	mg/l
RSD between labs	522,7	7,3	%
n for calculation	29	26	



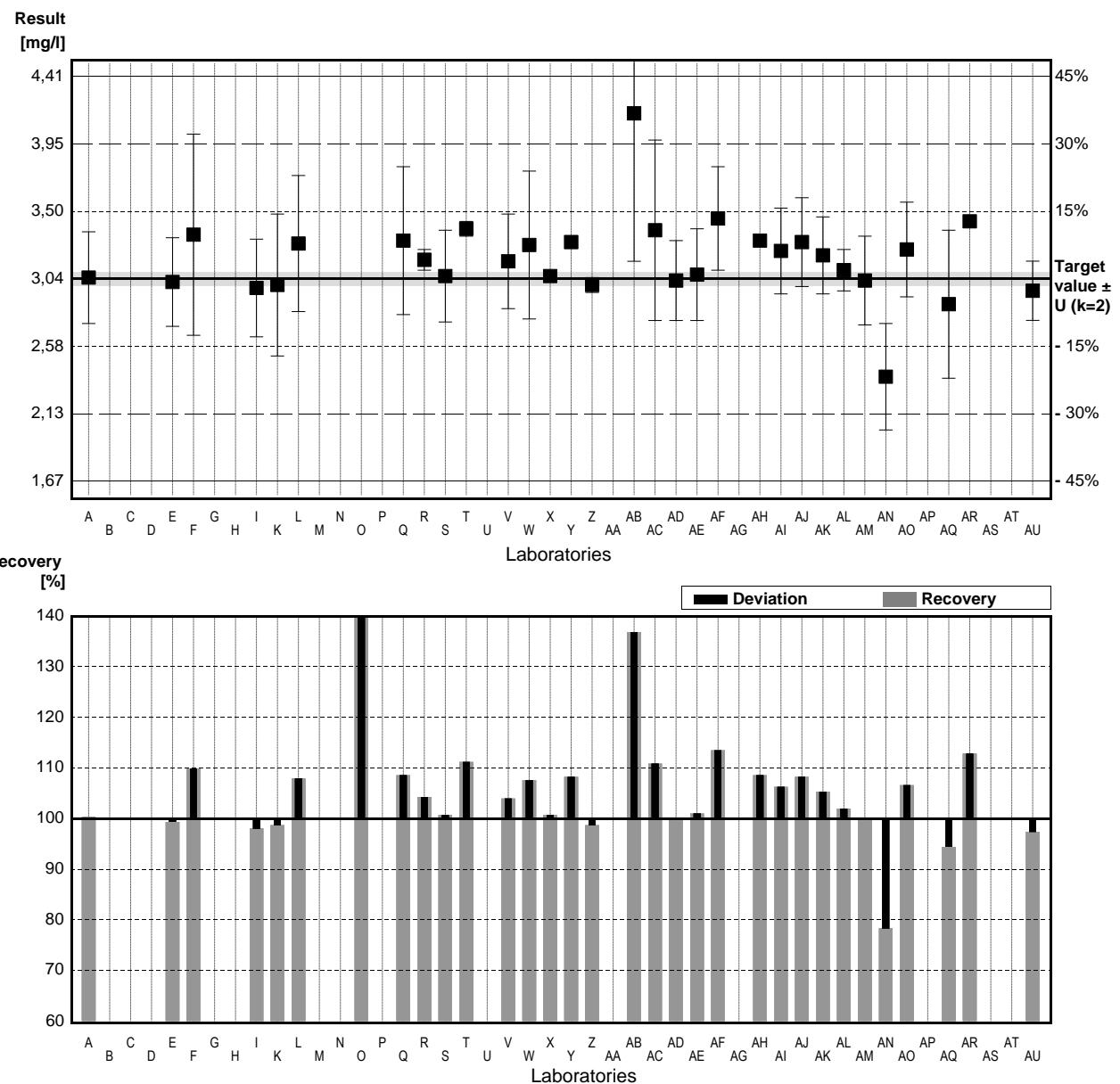
# Sample N153A

## Parameter DOC

Target value  $\pm U$  ( $k=2$ ) 3,04 mg/l  $\pm$  0,04 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 3,01 mg/l  $\pm$  0,12 mg/l  
 Stability test  $\pm U$  ( $k=2$ ) 3,11 mg/l  $\pm$  0,12 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	3.05	0.31	mg/l	100%	0.05
B			mg/l		
C			mg/l		
D			mg/l		
E	3.02	0.3	mg/l	99%	-0.11
F	3.34	0.68	mg/l	110%	1.64
G			mg/l		
H			mg/l		
I	2.98	0.33	mg/l	98%	-0.33
K	3.00	0.48	mg/l	99%	-0.22
L	3.28	0.46	mg/l	108%	1.32
M			mg/l		
N			mg/l		
O	4.85 *	0.49	mg/l	160%	9.92
P			mg/l		
Q	3.30	0.5	mg/l	109%	1.43
R	3.17	0.07	mg/l	104%	0.71
S	3.06	0.31	mg/l	101%	0.11
T	3.38	0.05	mg/l	111%	1.86
U			mg/l		
V	3.16	0.32	mg/l	104%	0.66
W	3.27	0.5	mg/l	108%	1.26
X	3.06	0.03	mg/l	101%	0.11
Y	3.29		mg/l	108%	1.37
Z	3.00	0.05	mg/l	99%	-0.22
AA			mg/l		
AB	4.16 *	1.00	mg/l	137%	6.14
AC	3.37	0.61	mg/l	111%	1.81
AD	3.03	0.27	mg/l	100%	-0.05
AE	3.07	0.31	mg/l	101%	0.16
AF	3.45	0.35	mg/l	113%	2.25
AG			mg/l		
AH	3.30		mg/l	109%	1.43
AI	3.23	0.29	mg/l	106%	1.04
AJ	3.29	0.30	mg/l	108%	1.37
AK	3.20	0.26	mg/l	105%	0.88
AL	3.10	0.140	mg/l	102%	0.33
AM	3.03	0.30	mg/l	100%	-0.05
AN	2.38 *	0.36	mg/l	78%	-3.62
AO	3.24	0.32	mg/l	107%	1.10
AP			mg/l		
AQ	2.87	0.5	mg/l	94%	-0.93
AR	3.43		mg/l	113%	2.14
AS			mg/l		
AT			mg/l		
AU	2.961	0.2	mg/l	97%	-0.43

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	3,23 $\pm$ 0,20	3,17 $\pm$ 0,08	mg/l
Recov. $\pm$ CI(99%)	106,2 $\pm$ 6,4	104,3 $\pm$ 2,7	%
SD between labs	0,40	0,16	mg/l
RSD between labs	12,5	5,0	%
n for calculation	32	29	



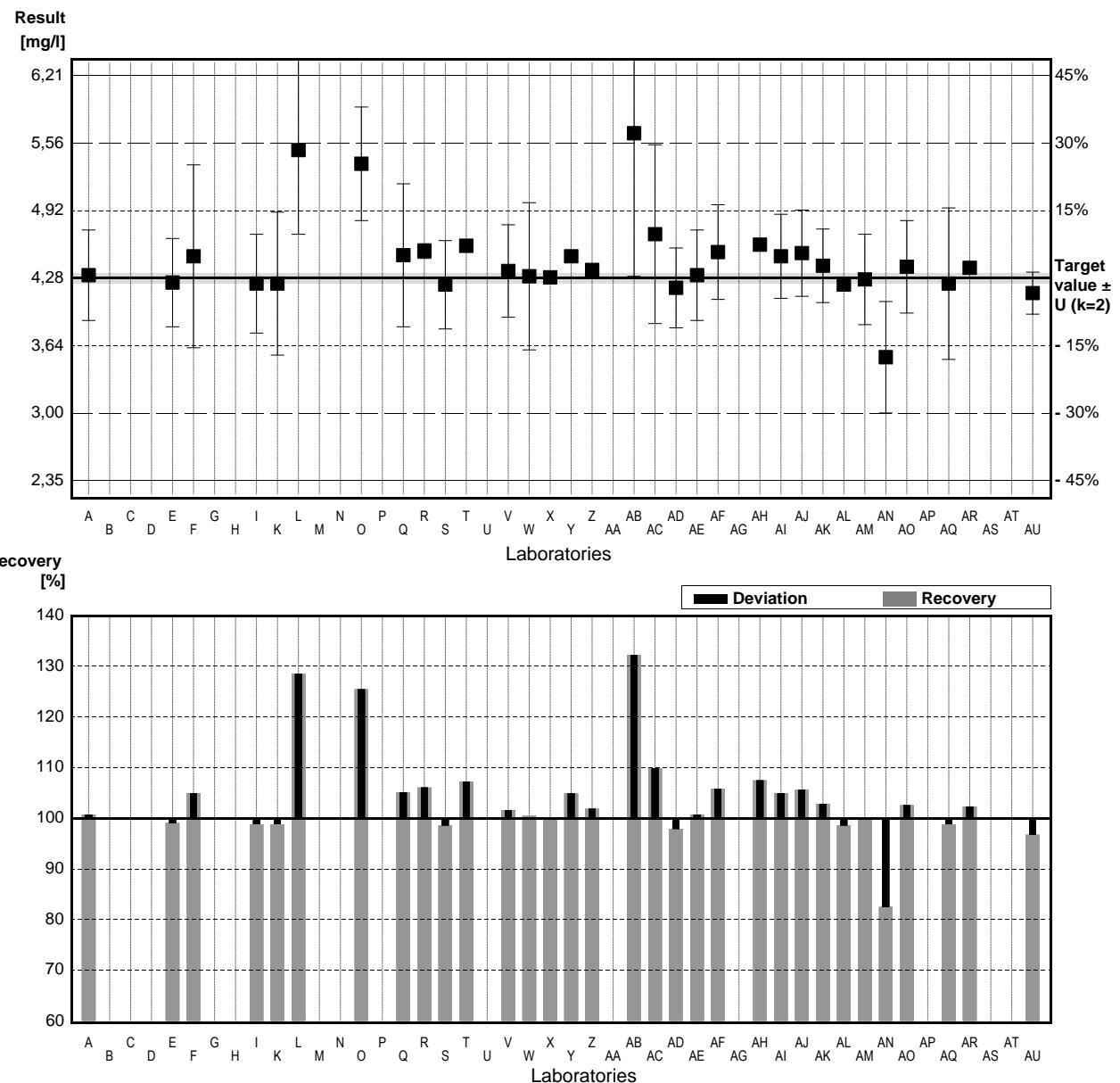
## Sample N153B

### Parameter DOC

Target value  $\pm U$  ( $k=2$ ) 4,28 mg/l  $\pm$  0,05 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 4,29 mg/l  $\pm$  0,17 mg/l  
 Stability test  $\pm U$  ( $k=2$ ) 4,40 mg/l  $\pm$  0,18 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	4.31	0.43	mg/l	101%	0.12
B			mg/l		
C			mg/l		
D			mg/l		
E	4.24	0.42	mg/l	99%	-0.16
F	4.49	0.87	mg/l	105%	0.82
G			mg/l		
H			mg/l		
I	4.23	0.47	mg/l	99%	-0.19
K	4.23	0.68	mg/l	99%	-0.19
L	5.5	*	mg/l	129%	4.75
M			mg/l		
N			mg/l		
O	5.37	*	mg/l	125%	4.24
P			mg/l		
Q	4.50	0.68	mg/l	105%	0.86
R	4.54	0.07	mg/l	106%	1.01
S	4.22	0.42	mg/l	99%	-0.23
T	4.59	0.06	mg/l	107%	1.21
U			mg/l		
V	4.35	0.44	mg/l	102%	0.27
W	4.30	0.7	mg/l	100%	0.08
X	4.29	0.03	mg/l	100%	0.04
Y	4.49		mg/l	105%	0.82
Z	4.36	0.03	mg/l	102%	0.31
AA			mg/l		
AB	5.66	*	mg/l	132%	5.37
AC	4.70	0.85	mg/l	110%	1.64
AD	4.19	0.38	mg/l	98%	-0.35
AE	4.31	0.43	mg/l	101%	0.12
AF	4.53	0.45	mg/l	106%	0.97
AG			mg/l		
AH	4.60		mg/l	107%	1.25
AI	4.49	0.4	mg/l	105%	0.82
AJ	4.52	0.41	mg/l	106%	0.93
AK	4.40	0.35	mg/l	103%	0.47
AL	4.22	0.032	mg/l	99%	-0.23
AM	4.27	0.43	mg/l	100%	-0.04
AN	3.53	*	mg/l	82%	-2.92
AO	4.39	0.44	mg/l	103%	0.43
AP			mg/l		
AQ	4.23	0.72	mg/l	99%	-0.19
AR	4.38		mg/l	102%	0.39
AS			mg/l		
AT			mg/l		
AU	4.140	0.2	mg/l	97%	-0.55

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	4,46 $\pm$ 0,20	4,38 $\pm$ 0,08	mg/l
Recov. $\pm$ CI(99%)	104,1 $\pm$ 4,6	102,2 $\pm$ 1,8	%
SD between labs	0,40	0,15	mg/l
RSD between labs	9,0	3,4	%
n for calculation	32	28	



## Sample N153A

### Parameter Total P (as PO4)

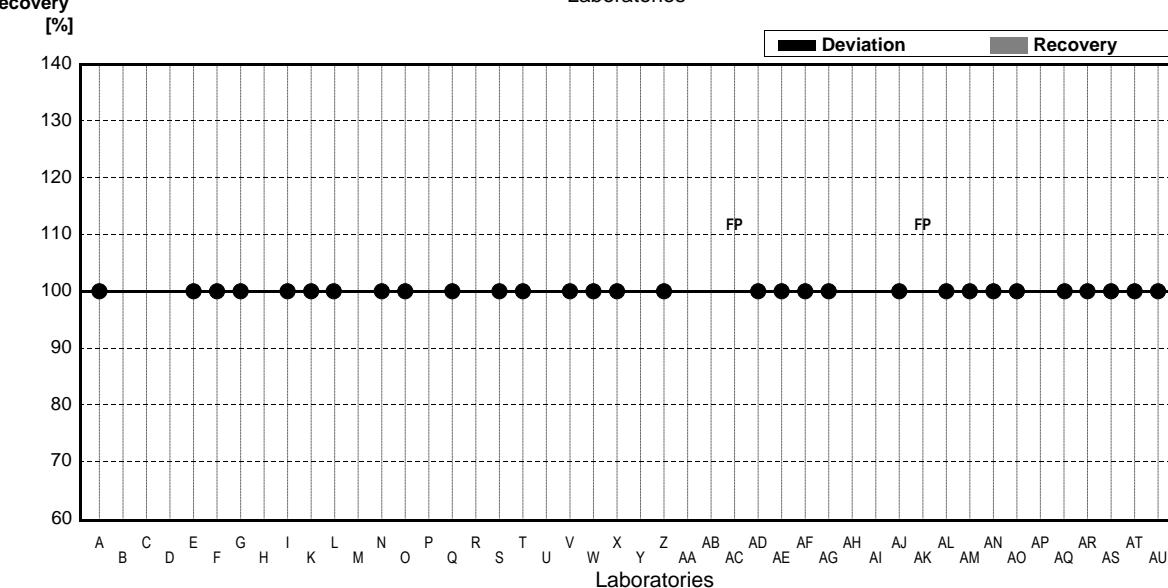
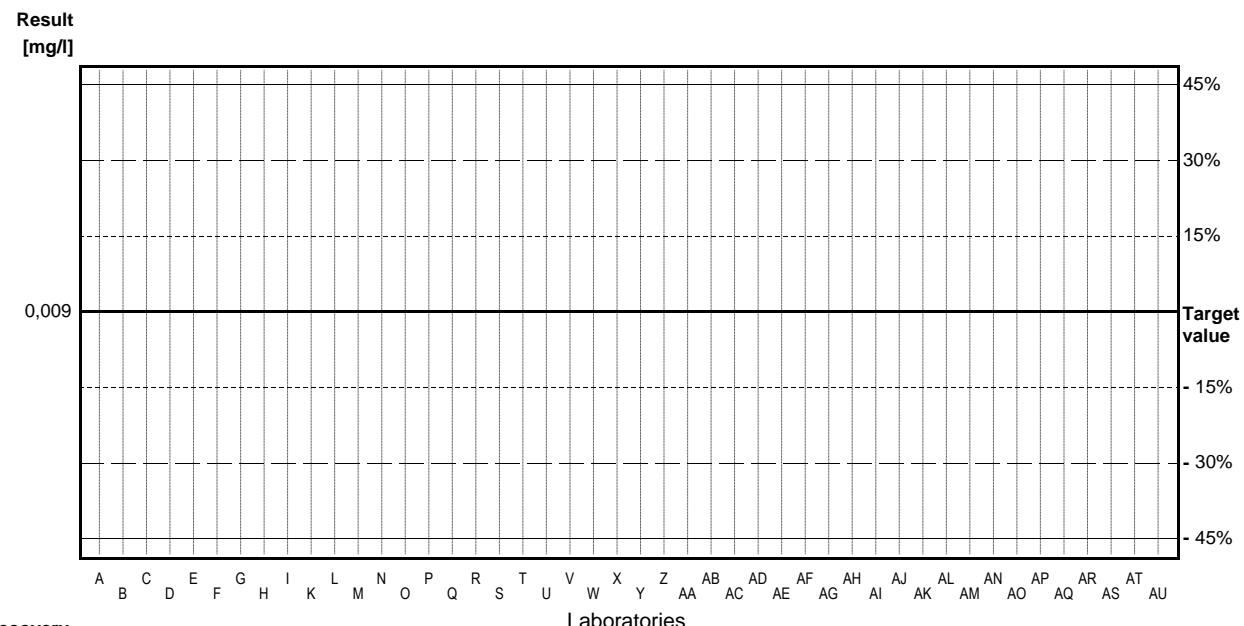
Target value <0,009 mg/l

IFA result <0,009 mg/l

Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	<0,020		mg/l	.	
B			mg/l		
C			mg/l		
D			mg/l		
E	<0,01		mg/l	.	
F	<0,010		mg/l	.	
G	<0,006	0	mg/l	.	
H			mg/l		
I	<0,015	0,005	mg/l	.	
K	<0,015		mg/l	.	
L	'0,0110	0,002	mg/l	.	
M			mg/l		
N	<0,02		mg/l	.	
O	0,0089	0,0013	mg/l	.	
P			mg/l		
Q	0,0060	0	mg/l	.	
R			mg/l		
S	<0,031		mg/l	.	
T	<0,031		mg/l	.	
U			mg/l		
V	<0,0010		mg/l	.	
W	<0,013		mg/l	.	
X	'0,0021		mg/l	.	
Y			mg/l		
Z	<0,03		mg/l	.	
AA			mg/l		
AB			mg/l		
AC	0,0340	0,0040	mg/l	FP	
AD	<0,006		mg/l	.	
AE	<0,015		mg/l	.	
AF	<0,010		mg/l	.	
AG	<0,05	0,05	mg/l	.	
AH			mg/l		
AI			mg/l		
AJ	<0,050		mg/l	.	
AK	0,0184	0,0028	mg/l	FP	
AL	<0,015		mg/l	.	
AM	<0,015		mg/l	.	
AN	<0,005		mg/l	.	
AO	<0,05		mg/l	.	
AP			mg/l		
AQ	'0,00920	0,001	mg/l	.	
AR	0,00554		mg/l	.	
AS	<0,05		mg/l	.	
AT	<0,002		mg/l	.	
AU	<0,03		mg/l	.	

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)			mg/l
Recov. $\pm$ CI(99%)			%
SD between labs			mg/l
RSD between labs			%
n for calculation			



## Sample N153B

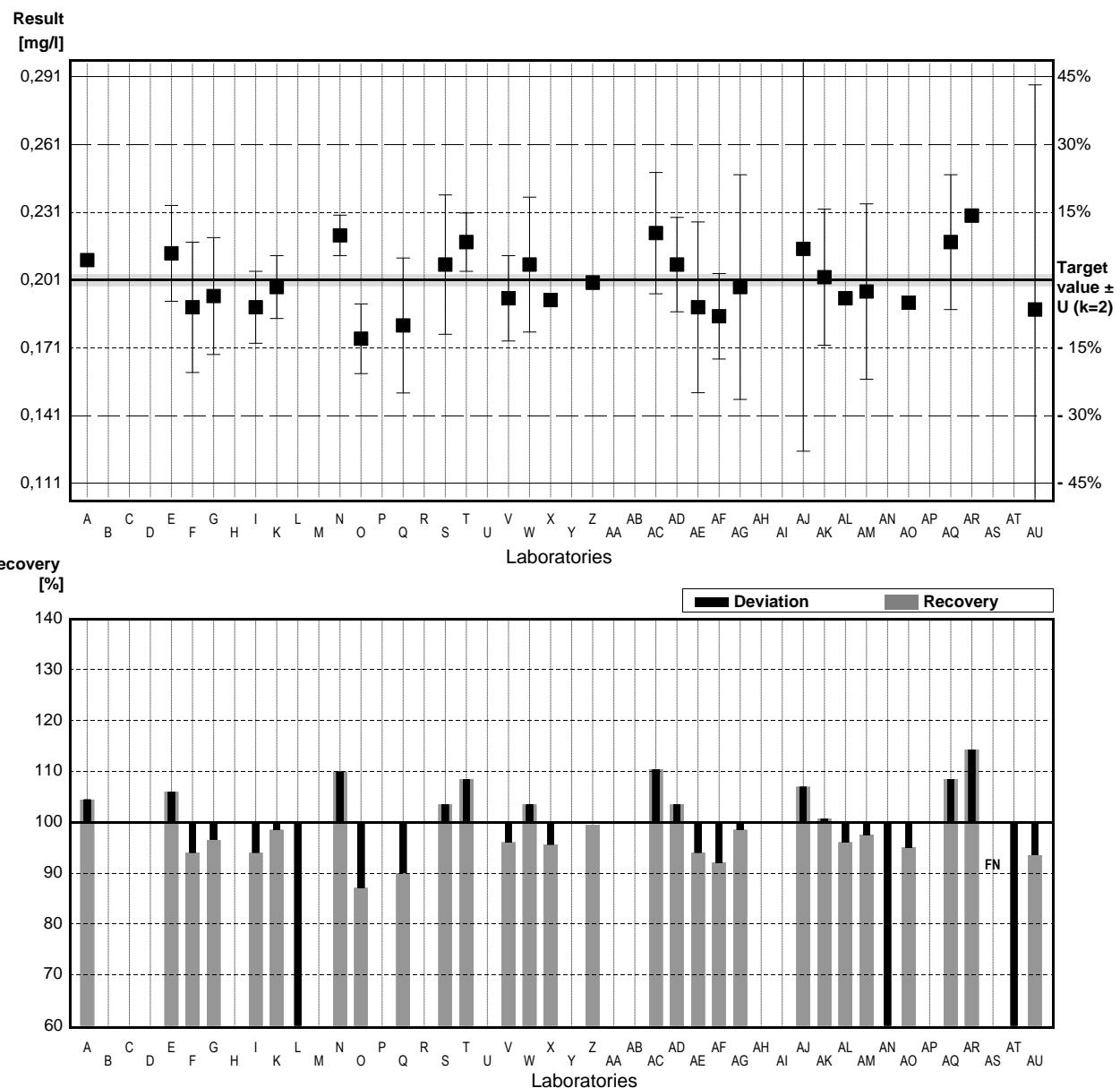
### Parameter Total P (as PO<sub>4</sub>)

Target value  $\pm$  U (k=2) 0,201 mg/l  $\pm$  0,003 mg/l  
 IFA result  $\pm$  U (k=2) 0,212 mg/l  $\pm$  0,049 mg/l

#### Stability test

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,210		mg/l	104%	0,41
B			mg/l		
C			mg/l		
D			mg/l		
E	0,213	0,0213	mg/l	106%	0,54
F	0,189	0,029	mg/l	94%	-0,54
G	0,194	0,026	mg/l	97%	-0,32
H			mg/l		
I	0,189	0,016	mg/l	94%	-0,54
K	0,198	0,014	mg/l	99%	-0,14
L	0,0170 *	0,002	mg/l	8%	-8,32
M			mg/l		
N	0,221	0,009	mg/l	110%	0,90
O	0,175	0,0155	mg/l	87%	-1,18
P			mg/l		
Q	0,1809	0,03	mg/l	90%	-0,91
R			mg/l		
S	0,208	0,031	mg/l	103%	0,32
T	0,218	0,013	mg/l	108%	0,77
U			mg/l		
V	0,193	0,019	mg/l	96%	-0,36
W	0,208	0,03	mg/l	103%	0,32
X	0,1922	0,0018	mg/l	96%	-0,40
Y			mg/l		
Z	0,200	0,003	mg/l	100%	-0,05
AA			mg/l		
AB			mg/l		
AC	0,222	0,027	mg/l	110%	0,95
AD	0,208	0,021	mg/l	103%	0,32
AE	0,189	0,038	mg/l	94%	-0,54
AF	0,185	0,019	mg/l	92%	-0,72
AG	0,198	0,05	mg/l	99%	-0,14
AH			mg/l		
AI			mg/l		
AJ	0,215	0,09	mg/l	107%	0,63
AK	0,2024	0,0303	mg/l	101%	0,06
AL	0,193	0,001	mg/l	96%	-0,36
AM	0,196	0,039	mg/l	98%	-0,23
AN	0,062 *	0,009	mg/l	31%	-6,29
AO	0,191	0,002	mg/l	95%	-0,45
AP			mg/l		
AQ	0,218	0,03	mg/l	108%	0,77
AR	0,22980		mg/l	114%	1,30
AS	<0,05		mg/l	FN	
AT	0,061 *	0,006	mg/l	30%	-6,33
AU	0,188	0,1	mg/l	94%	-0,59

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	0,186 $\pm$ 0,024	0,201 $\pm$ 0,007	mg/l
Recov. $\pm$ CI(99%)	92,5 $\pm$ 11,9	99,9 $\pm$ 3,6	%
SD between labs	0,049	0,014	mg/l
RSD between labs	26,1	6,9	%
n for calculation	31	28	



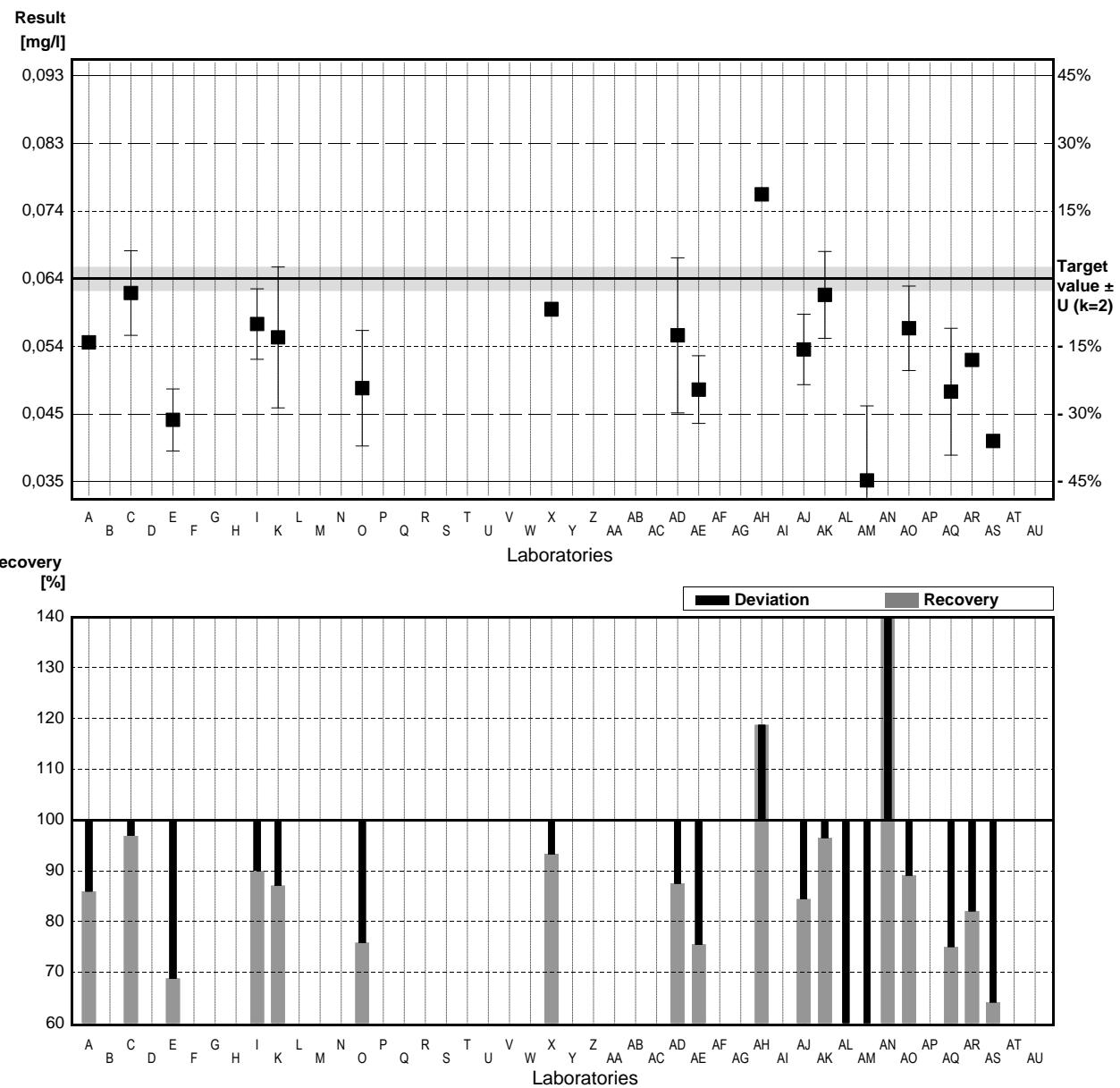
## Sample N153A

### Parameter Cyanide

Target value  $\pm$  U (k=2) 0,064 mg/l  $\pm$  0,002 mg/l  
 IFA result  $\pm$  U (k=2) 0,060 mg/l  $\pm$  0,006 mg/l  
 Stability test  $\pm$  U (k=2) 0,059 mg/l  $\pm$  0,006 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,055		mg/l	86%	-0,83
B			mg/l		
C	0,062	0,006	mg/l	97%	-0,18
D			mg/l		
E	0,0440	0,0044	mg/l	69%	-1,84
F			mg/l		
G			mg/l		
H			mg/l		
I	0,0576	0,005	mg/l	90%	-0,59
K	0,0557	0,01	mg/l	87%	-0,76
L			mg/l		
M			mg/l		
N			mg/l		
O	0,0485	0,0082	mg/l	76%	-1,42
P			mg/l		
Q			mg/l		
R			mg/l		
S			mg/l		
T			mg/l		
U			mg/l		
V			mg/l		
W			mg/l		
X	0,0597	0,00099	mg/l	93%	-0,40
Y			mg/l		
Z			mg/l		
AA			mg/l		
AB			mg/l		
AC			mg/l		
AD	0,056	0,011	mg/l	88%	-0,74
AE	0,0483	0,0048	mg/l	75%	-1,44
AF			mg/l		
AG			mg/l		
AH	0,076		mg/l	119%	1,10
AI			mg/l		
AJ	0,054	0,005	mg/l	84%	-0,92
AK	0,06174	0,00617	mg/l	96%	-0,21
AL	0,0234 *	0,001	mg/l	37%	-3,73
AM	0,0354	0,0106	mg/l	55%	-2,63
AN	65,5 *	11	mg/l	102344%	6014,34
AO	0,057	0,006	mg/l	89%	-0,64
AP			mg/l		
AQ	0,0480	0,009	mg/l	75%	-1,47
AR	0,05250		mg/l	82%	-1,06
AS	0,0410		mg/l	64%	-2,11
AT			mg/l		
AU			mg/l		

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	3,497 $\pm$ 9,921	0,054 $\pm$ 0,007	mg/l
Recov. $\pm$ CI(99%)	5463,5 $\pm$ 15500,	83,9 $\pm$ 10,3	%
SD between labs	15,015	0,009	mg/l
RSD between labs	429,4	17,3	%
n for calculation	19	17	



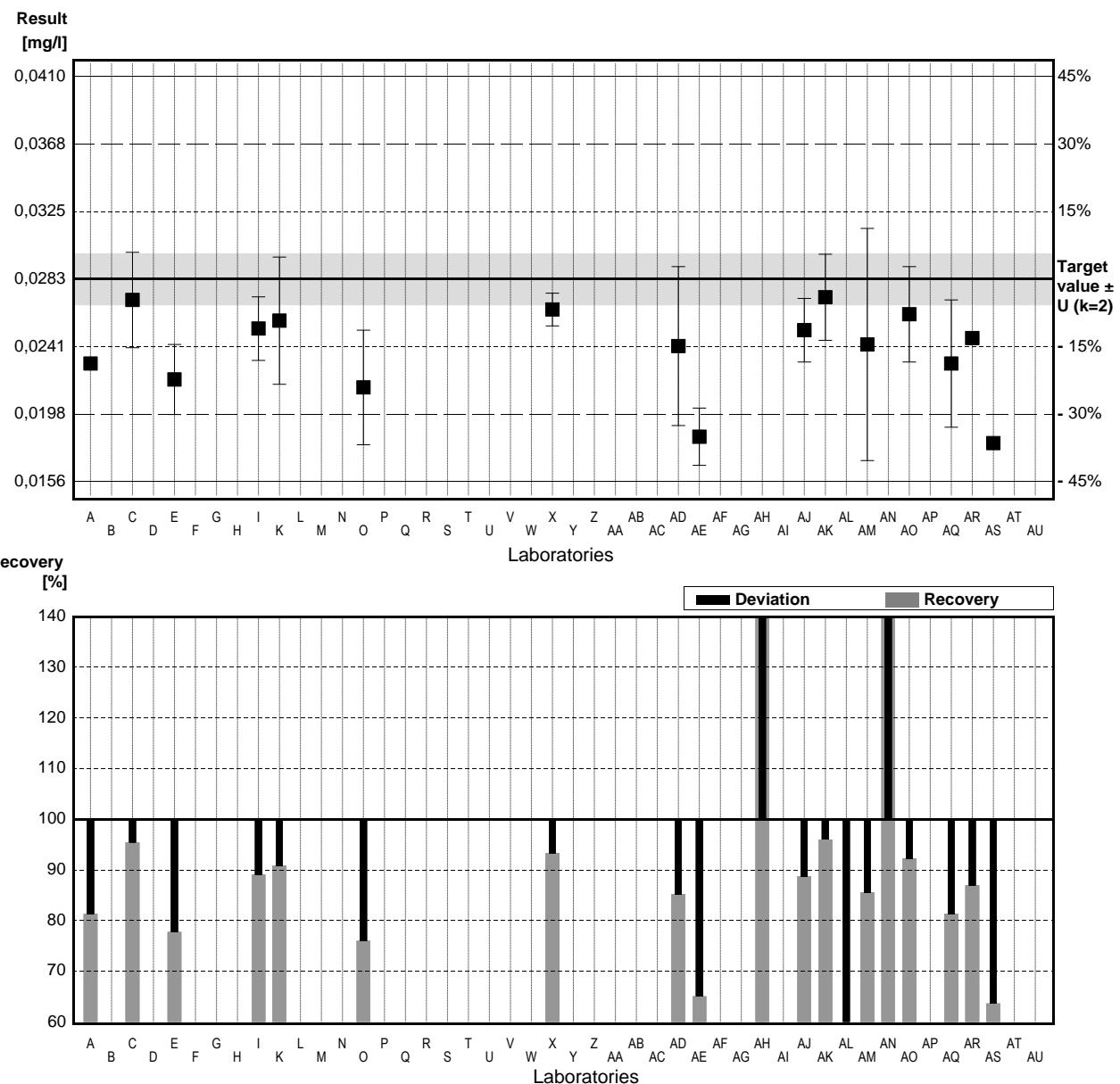
## Sample N153B

### Parameter Cyanide

Target value  $\pm U$  ( $k=2$ ) 0,0283 mg/l  $\pm$  0,0016 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 0,0277 mg/l  $\pm$  0,0028 mg/l  
 Stability test  $\pm U$  ( $k=2$ ) 0,0272 mg/l  $\pm$  0,0027 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score	
A	0,0230		mg/l	81%	-1,10	
B			mg/l			
C	0,0270	0,003	mg/l	95%	-0,27	
D			mg/l			
E	0,0220	0,0022	mg/l	78%	-1,31	
F			mg/l			
G			mg/l			
H			mg/l			
I	0,0252	0,002	mg/l	89%	-0,64	
K	0,0257	0,004	mg/l	91%	-0,54	
L			mg/l			
M			mg/l			
N			mg/l			
O	0,0215	0,0036	mg/l	76%	-1,41	
P			mg/l			
Q			mg/l			
R			mg/l			
S			mg/l			
T			mg/l			
U			mg/l			
V			mg/l			
W			mg/l			
X	0,0264	0,00103	mg/l	93%	-0,39	
Y			mg/l			
Z			mg/l			
AA			mg/l			
AB			mg/l			
AC			mg/l			
AD	0,0241	0,0050	mg/l	85%	-0,87	
AE	0,0184	0,0018	mg/l	65%	-2,06	
AF			mg/l			
AG			mg/l			
AH	0,050	*	mg/l	177%	4,51	
AI			mg/l			
AJ	0,0251	0,002	mg/l	89%	-0,67	
AK	0,02717	0,00271	mg/l	96%	-0,23	
AL	0,00913	*	0,001	mg/l	32%	-3,98
AM	0,0242	0,0073	mg/l	86%	-0,85	
AN	29,8	*	5,0	mg/l	105300%	6188,26
AO	0,0261	0,003	mg/l	92%	-0,46	
AP			mg/l			
AQ	0,0230	0,004	mg/l	81%	-1,10	
AR	0,02460		mg/l	87%	-0,77	
AS	0,0180		mg/l	64%	-2,14	
AT			mg/l			
AU			mg/l			

	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	1,5916 $\pm$ 4,5133	0,0238 $\pm$ 0,0020	mg/l
Recov. $\pm$ CI(99%)	5624,1 $\pm$ 15948,	84,2 $\pm$ 7,2	%
SD between labs	6,8310	0,0028	mg/l
RSD between labs	429,2	11,6	%
n for calculation	19	16	





# **Illustration of Results Laboratory Oriented Part**

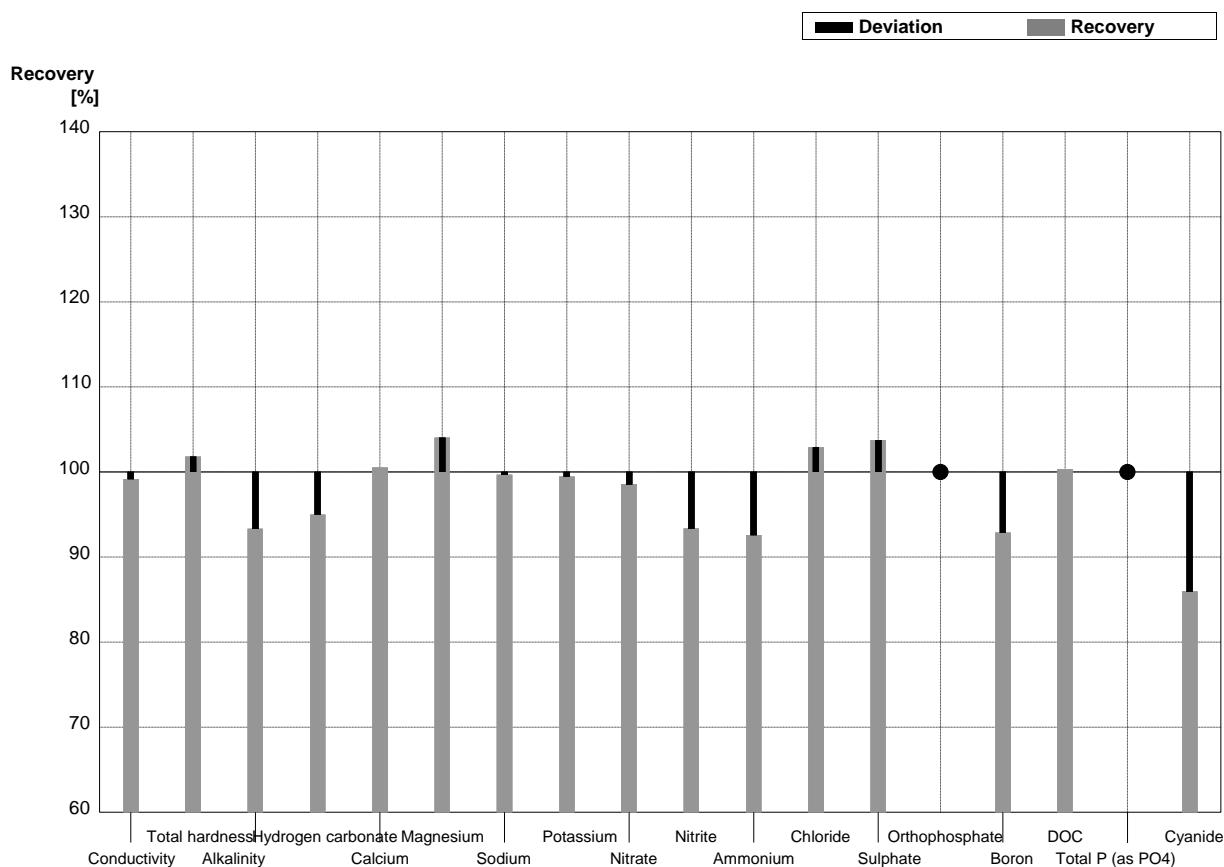
**Round N153  
Major Ions**

**Sample Dispatch: 31 August 2020**



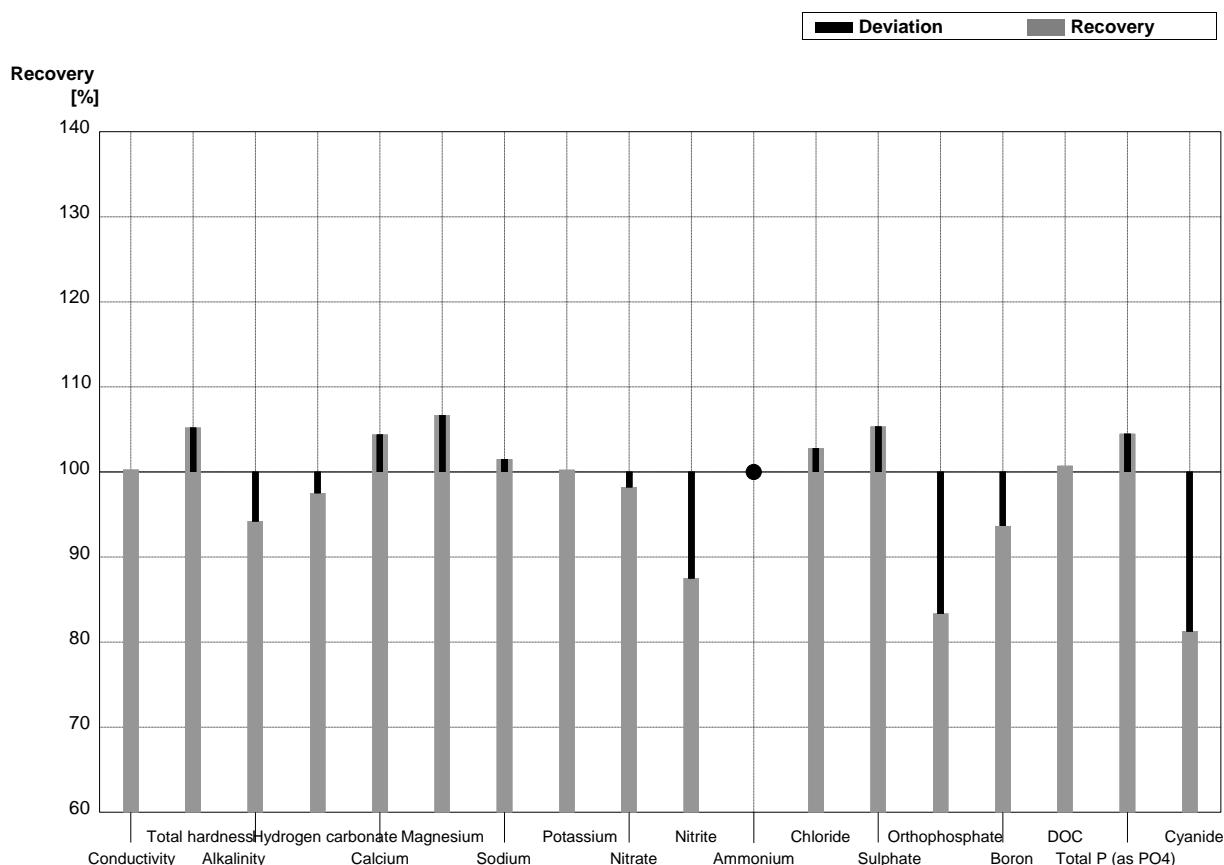
**Sample N153A**  
**Laboratory A**

Parameter	Target value	$\pm$ U (k=2)	Result	$\pm$	Unit	Recovery
Conductivity	721	2	715	29	$\mu\text{S}/\text{cm}$	99%
Total hardness	2,80	0,03	2,85		$\text{mmol/l}$	102%
Alkalinity	2,99	0,03	2,79		$\text{mmol/l}$	93%
Hydrogen carbonate	179	2	170		$\text{mg/l}$	95%
Calcium	79,5	1,0	79,9	5,6	$\text{mg/l}$	101%
Magnesium	19,9	0,2	20,7	1,7	$\text{mg/l}$	104%
Sodium	29,2	0,4	29,1	3,2	$\text{mg/l}$	100%
Potassium	7,04	0,07	7,0	1,1	$\text{mg/l}$	99%
Nitrate	69,0	1,5	68,0	22,4	$\text{mg/l}$	99%
Nitrite	0,075	0,001	0,070	0,010	$\text{mg/l}$	93%
Ammonium	0,108	0,007	0,100	0,040	$\text{mg/l}$	93%
Chloride	66,1	1,2	68,0	3,4	$\text{mg/l}$	103%
Sulphate	53,4	0,6	55,4	3,3	$\text{mg/l}$	104%
Orthophosphate	<0,009		<0,020		$\text{mg/l}$	•
Boron	0,056	0,001	0,052	0,008	$\text{mg/l}$	93%
DOC	3,04	0,04	3,05	0,31	$\text{mg/l}$	100%
Total P (as PO <sub>4</sub> )	<0,009		<0,020		$\text{mg/l}$	•
Cyanide	0,064	0,002	0,055		$\text{mg/l}$	86%



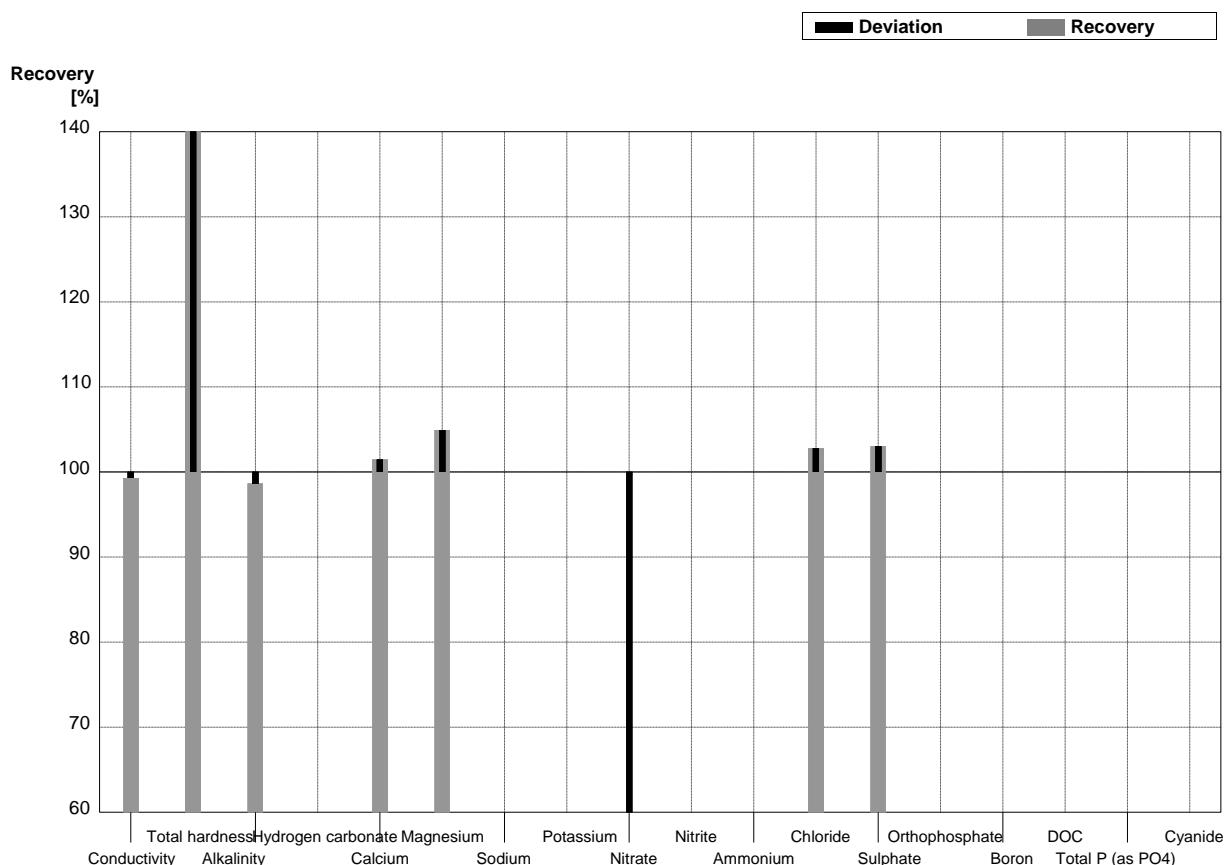
**Sample N153B**  
**Laboratory A**

Parameter	Target value	$\pm$ U (k=2)	Result	$\pm$	Unit	Recovery
Conductivity	395	1	396	16	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,35	0,01	1,42		$\text{mmol/l}$	105%
Alkalinity	1,38	0,01	1,30		$\text{mmol/l}$	94%
Hydrogen carbonate	81,0	0,5	79		$\text{mg/l}$	98%
Calcium	34,3	0,5	35,8	2,5	$\text{mg/l}$	104%
Magnesium	12,0	0,1	12,8	1,0	$\text{mg/l}$	107%
Sodium	20,4	0,1	20,7	2,3	$\text{mg/l}$	101%
Potassium	4,09	0,04	4,10	0,70	$\text{mg/l}$	100%
Nitrate	33,5	0,6	32,9	10,9	$\text{mg/l}$	98%
Nitrite	0,0240	0,0005	0,0210	0,0080	$\text{mg/l}$	88%
Ammonium	<0,01		<0,040		$\text{mg/l}$	•
Chloride	39,4	0,7	40,5	2,0	$\text{mg/l}$	103%
Sulphate	32,0	0,4	33,7	2,0	$\text{mg/l}$	105%
Orthophosphate	0,072	0,002	0,060		$\text{mg/l}$	83%
Boron	0,126	0,001	0,118	0,019	$\text{mg/l}$	94%
DOC	4,28	0,05	4,31	0,43	$\text{mg/l}$	101%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,210		$\text{mg/l}$	104%
Cyanide	0,0283	0,0016	0,0230		$\text{mg/l}$	81%



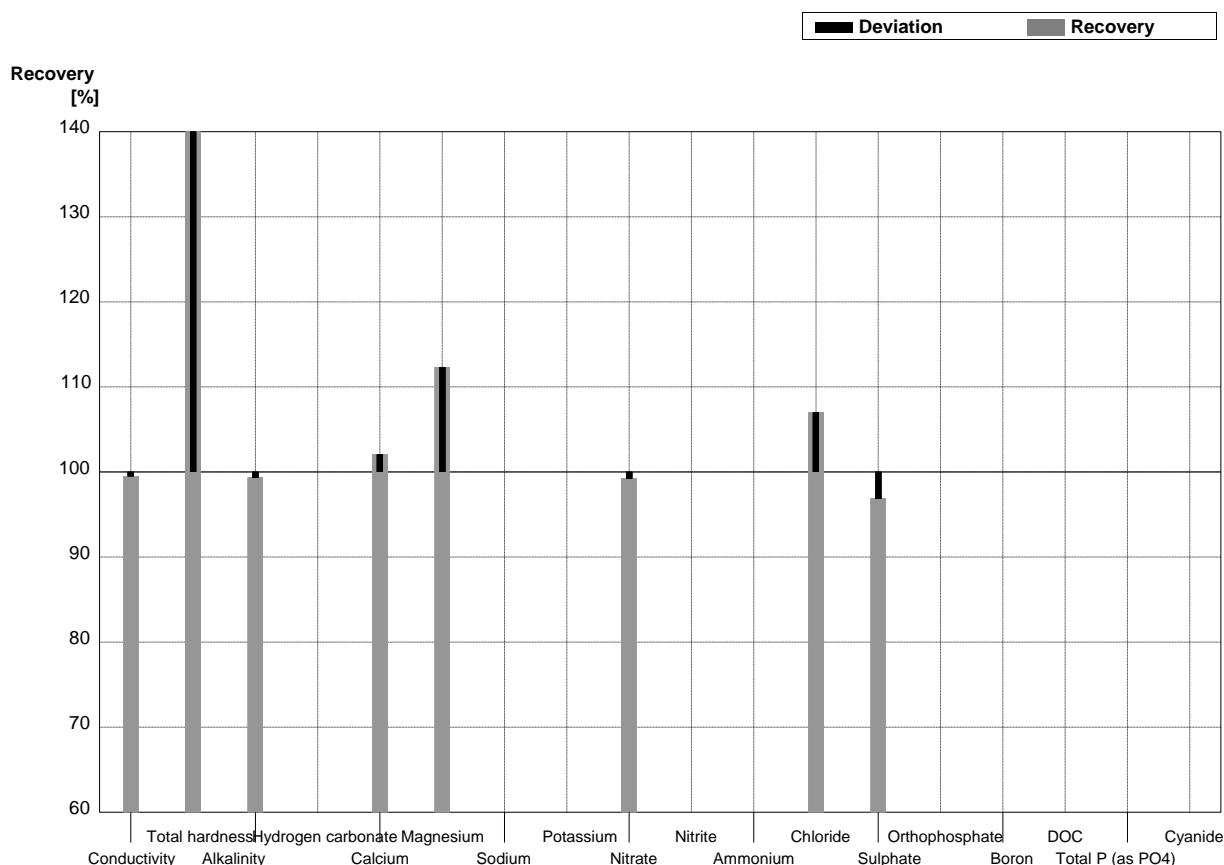
**Sample N153A**  
**Laboratory B**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	715,95	0,275	µS/cm	99%
Total hardness	2,80	0,03	16,08	0,57	mmol/l	574%
Alkalinity	2,99	0,03	2,949	0,06	mmol/l	99%
Hydrogen carbonate	179	2			mg/l	
Calcium	79,5	1,0	80,65	0,82	mg/l	101%
Magnesium	19,9	0,2	20,88	1,53	mg/l	105%
Sodium	29,2	0,4			mg/l	
Potassium	7,04	0,07			mg/l	
Nitrate	69,0	1,5	39,10	0,482	mg/l	57%
Nitrite	0,075	0,001			mg/l	
Ammonium	0,108	0,007			mg/l	
Chloride	66,1	1,2	67,95	1,074	mg/l	103%
Sulphate	53,4	0,6	55,0	10,0	mg/l	103%
Orthophosphate	<0,009				mg/l	
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,064	0,002			mg/l	



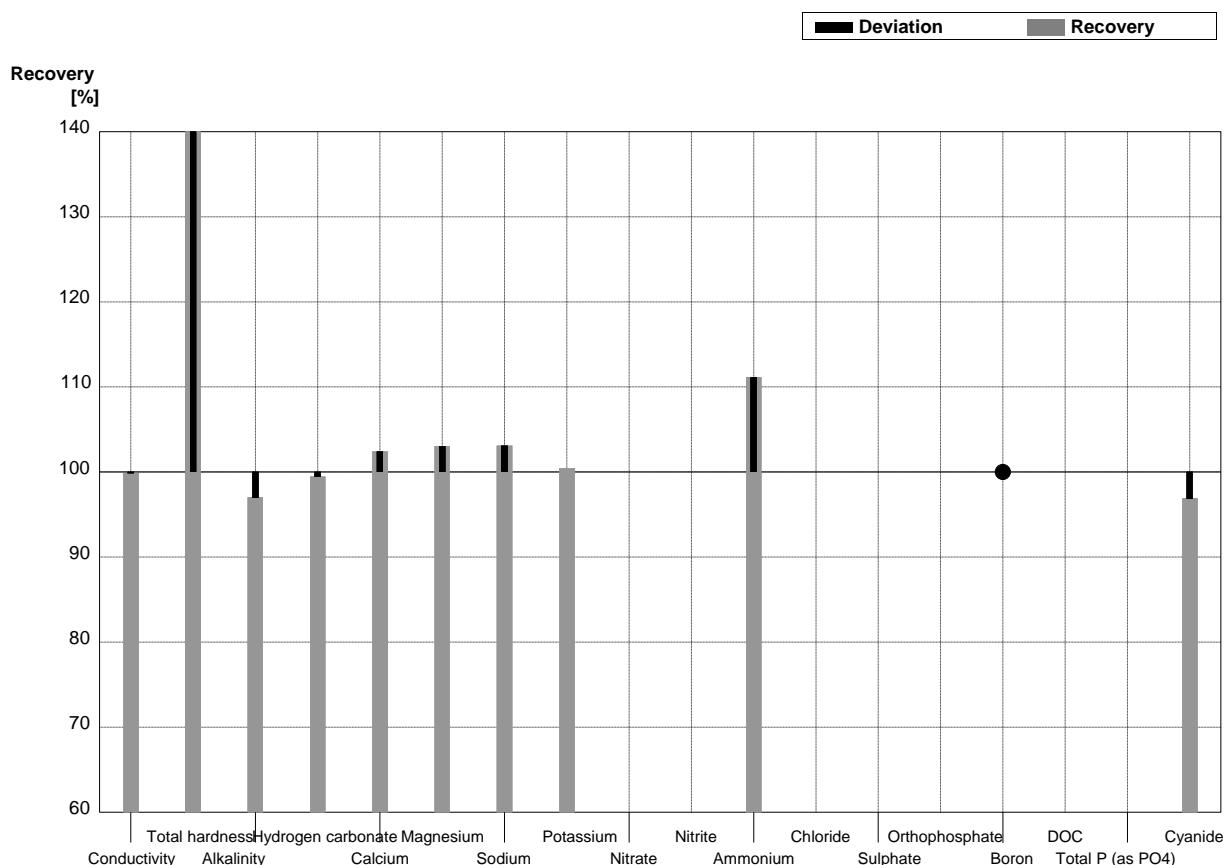
**Sample N153B**  
**Laboratory B**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	393,05	0,275	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,35	0,01	8,00	0,57	$\text{mmol/l}$	593%
Alkalinity	1,38	0,01	1,371	0,06	$\text{mmol/l}$	99%
Hydrogen carbonate	81,0	0,5			$\text{mg/l}$	
Calcium	34,3	0,5	35,00	0,82	$\text{mg/l}$	102%
Magnesium	12,0	0,1	13,48	1,53	$\text{mg/l}$	112%
Sodium	20,4	0,1			$\text{mg/l}$	
Potassium	4,09	0,04			$\text{mg/l}$	
Nitrate	33,5	0,6	33,25	0,482	$\text{mg/l}$	99%
Nitrite	0,0240	0,0005			$\text{mg/l}$	
Ammonium	<0,01				$\text{mg/l}$	
Chloride	39,4	0,7	42,15	1,074	$\text{mg/l}$	107%
Sulphate	32,0	0,4	31,0	10,0	$\text{mg/l}$	97%
Orthophosphate	0,072	0,002			$\text{mg/l}$	
Boron	0,126	0,001			$\text{mg/l}$	
DOC	4,28	0,05			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,201	0,003			$\text{mg/l}$	
Cyanide	0,0283	0,0016			$\text{mg/l}$	



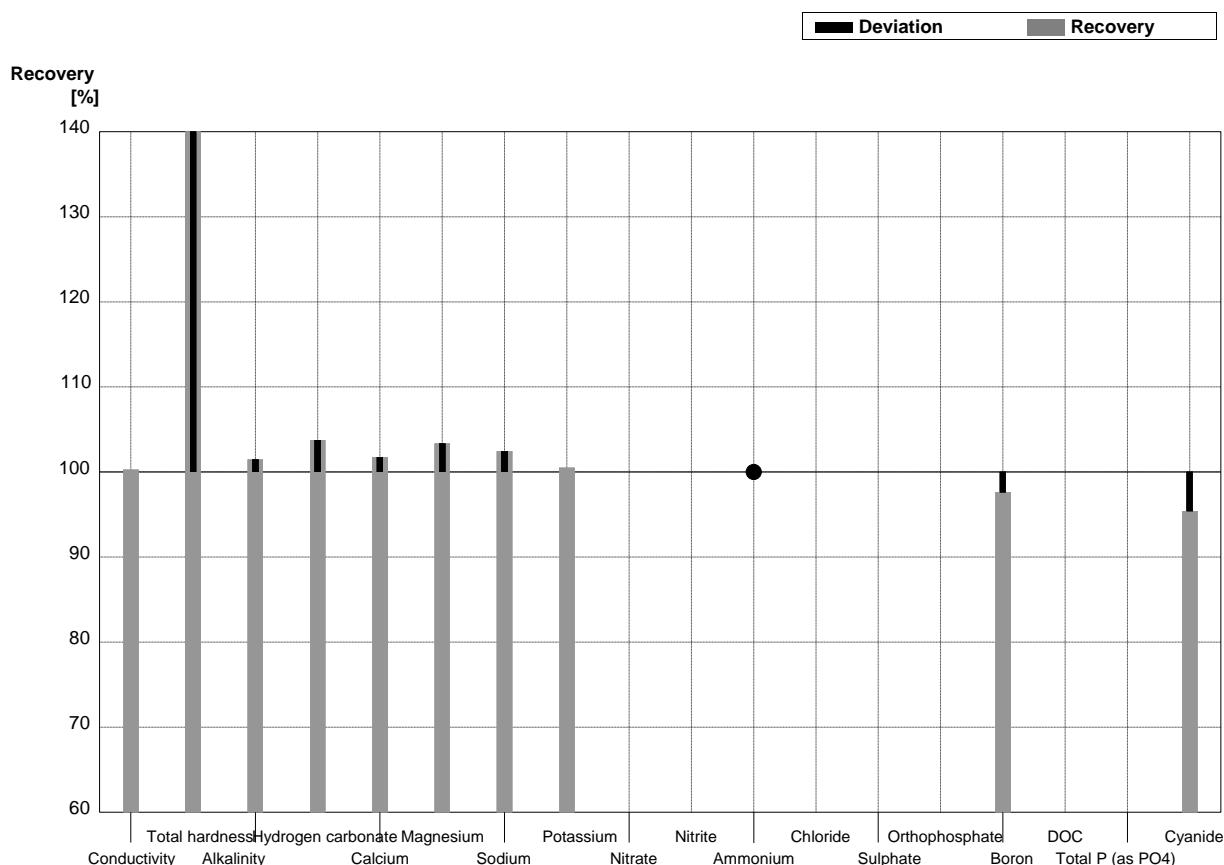
**Sample N153A**  
**Laboratory C**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	720	72	µS/cm	100%
Total hardness	2,80	0,03	29,8	3,0	mmol/l	1064%
Alkalinity	2,99	0,03	2,90	0,29	mmol/l	97%
Hydrogen carbonate	179	2	178	17,8	mg/l	99%
Calcium	79,5	1,0	81,4	8,1	mg/l	102%
Magnesium	19,9	0,2	20,5	2,1	mg/l	103%
Sodium	29,2	0,4	30,1	3,0	mg/l	103%
Potassium	7,04	0,07	7,07	0,71	mg/l	100%
Nitrate	69,0	1,5			mg/l	
Nitrite	0,075	0,001			mg/l	
Ammonium	0,108	0,007	0,120	0,012	mg/l	111%
Chloride	66,1	1,2			mg/l	
Sulphate	53,4	0,6			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,056	0,001	<0,1		mg/l	•
DOC	3,04	0,04			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,064	0,002	0,062	0,006	mg/l	97%



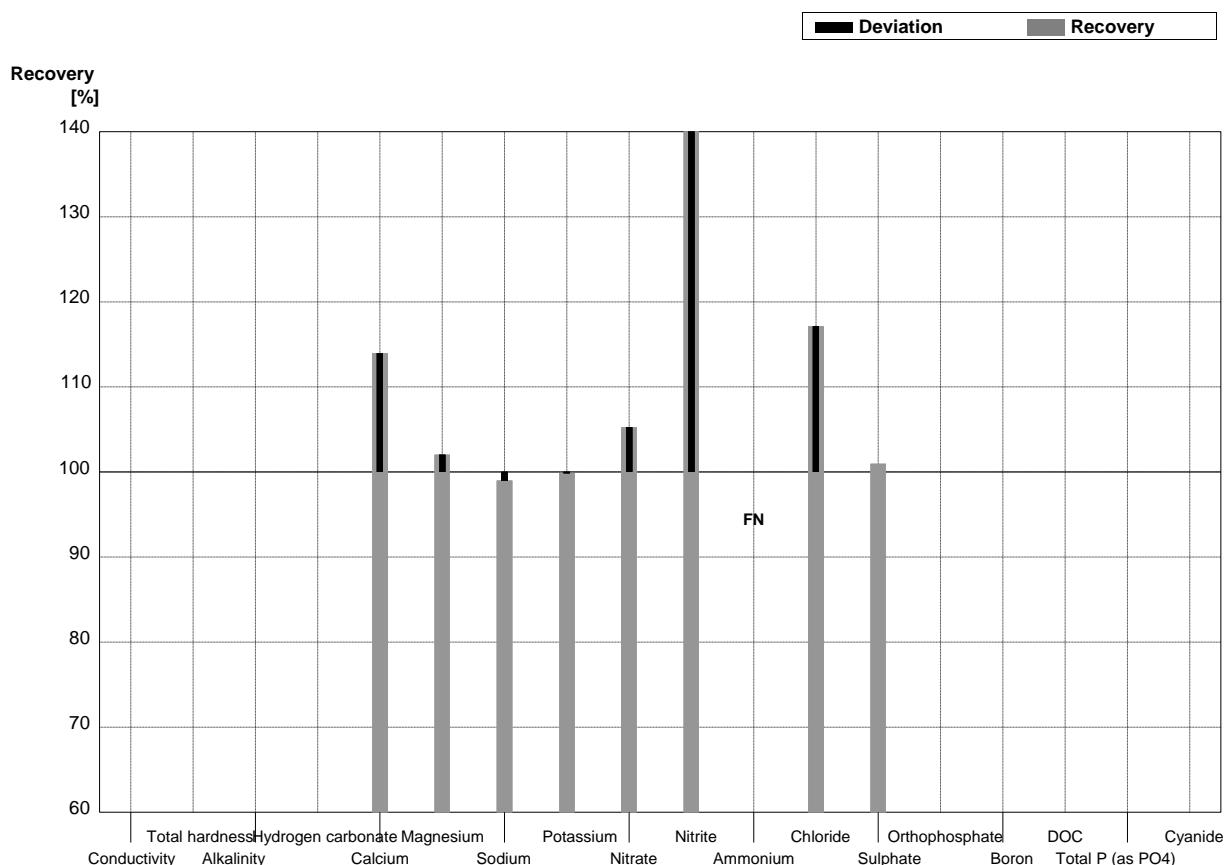
**Sample N153B**  
**Laboratory C**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	396	40	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,35	0,01	14,8	1,5	$\text{mmol/l}$	1096%
Alkalinity	1,38	0,01	1,40	0,14	$\text{mmol/l}$	101%
Hydrogen carbonate	81,0	0,5	84	8,4	$\text{mg/l}$	104%
Calcium	34,3	0,5	34,9	3,5	$\text{mg/l}$	102%
Magnesium	12,0	0,1	12,4	1,2	$\text{mg/l}$	103%
Sodium	20,4	0,1	20,9	2,1	$\text{mg/l}$	102%
Potassium	4,09	0,04	4,11	0,4	$\text{mg/l}$	100%
Nitrate	33,5	0,6			$\text{mg/l}$	
Nitrite	0,0240	0,0005			$\text{mg/l}$	
Ammonium	<0,01		<0,05		$\text{mg/l}$	•
Chloride	39,4	0,7			$\text{mg/l}$	
Sulphate	32,0	0,4			$\text{mg/l}$	
Orthophosphate	0,072	0,002			$\text{mg/l}$	
Boron	0,126	0,001	0,123	0,012	$\text{mg/l}$	98%
DOC	4,28	0,05			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,201	0,003			$\text{mg/l}$	
Cyanide	0,0283	0,0016	0,0270	0,003	$\text{mg/l}$	95%



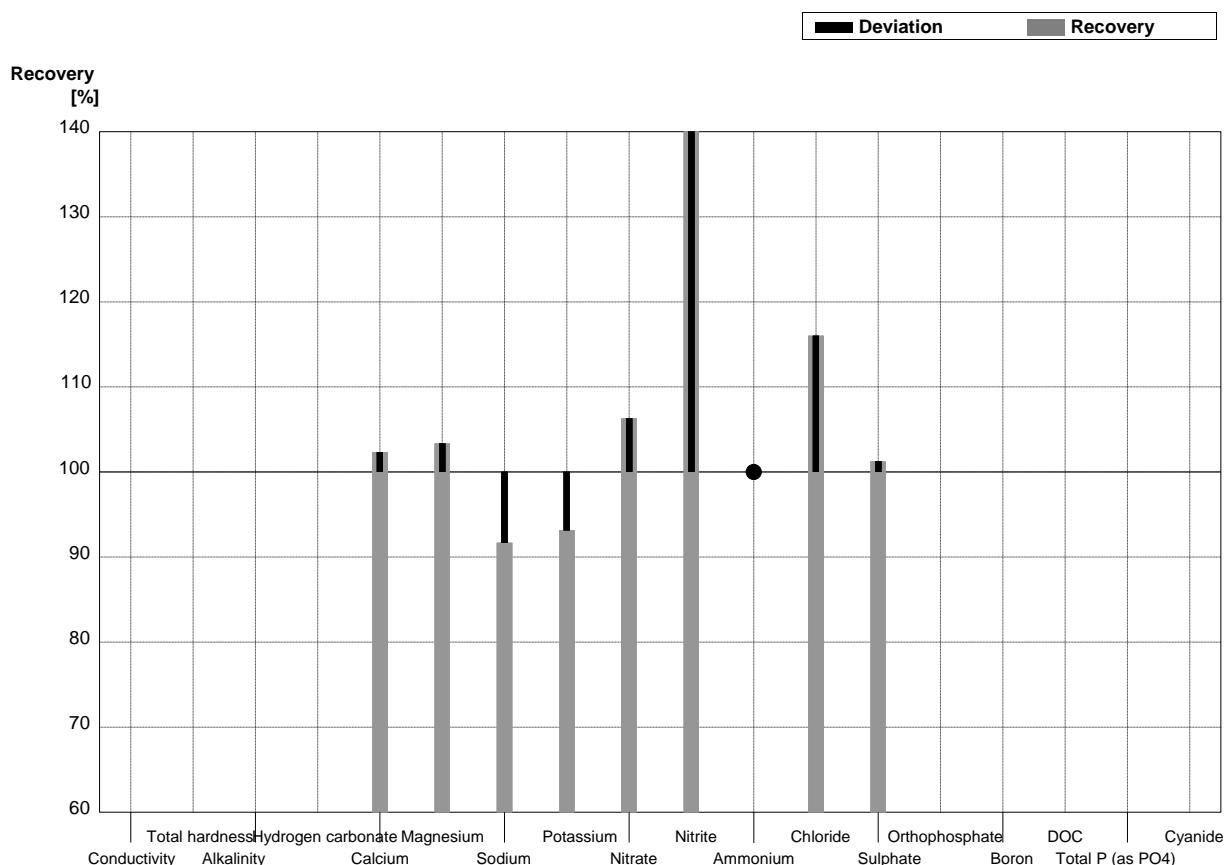
**Sample N153A**  
**Laboratory D**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2			µS/cm	
Total hardness	2,80	0,03			mmol/l	
Alkalinity	2,99	0,03			mmol/l	
Hydrogen carbonate	179	2			mg/l	
Calcium	79,5	1,0	90,6	0,1	mg/l	114%
Magnesium	19,9	0,2	20,3	0,1	mg/l	102%
Sodium	29,2	0,4	28,9	0,1	mg/l	99%
Potassium	7,04	0,07	7,03	0,04	mg/l	100%
Nitrate	69,0	1,5	72,6	0,5	mg/l	105%
Nitrite	0,075	0,001	0,388	0,002	mg/l	517%
Ammonium	0,108	0,007	<0,08		mg/l	FN
Chloride	66,1	1,2	77,4	0,3	mg/l	117%
Sulphate	53,4	0,6	53,9	0,3	mg/l	101%
Orthophosphate	<0,009				mg/l	
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,064	0,002			mg/l	



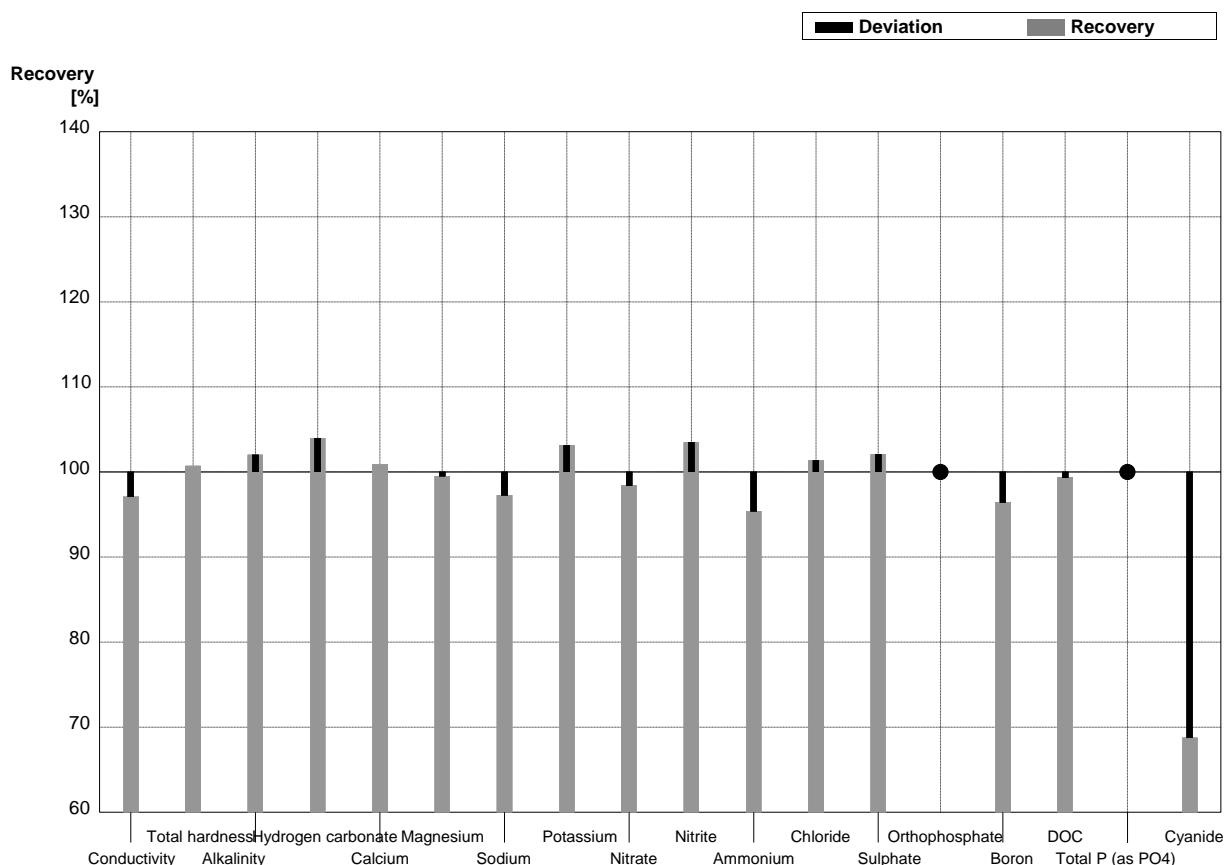
**Sample N153B**  
**Laboratory D**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,35	0,01			$\text{mmol/l}$	
Alkalinity	1,38	0,01			$\text{mmol/l}$	
Hydrogen carbonate	81,0	0,5			$\text{mg/l}$	
Calcium	34,3	0,5	35,1	0,3	$\text{mg/l}$	102%
Magnesium	12,0	0,1	12,4	0,2	$\text{mg/l}$	103%
Sodium	20,4	0,1	18,7	0,2	$\text{mg/l}$	92%
Potassium	4,09	0,04	3,81	0,05	$\text{mg/l}$	93%
Nitrate	33,5	0,6	35,6	0,2	$\text{mg/l}$	106%
Nitrite	0,0240	0,0005	0,219	0,025	$\text{mg/l}$	913%
Ammonium	<0,01		<0,08		$\text{mg/l}$	•
Chloride	39,4	0,7	45,7	0,5	$\text{mg/l}$	116%
Sulphate	32,0	0,4	32,4	0,2	$\text{mg/l}$	101%
Orthophosphate	0,072	0,002			$\text{mg/l}$	
Boron	0,126	0,001			$\text{mg/l}$	
DOC	4,28	0,05			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,201	0,003			$\text{mg/l}$	
Cyanide	0,0283	0,0016			$\text{mg/l}$	



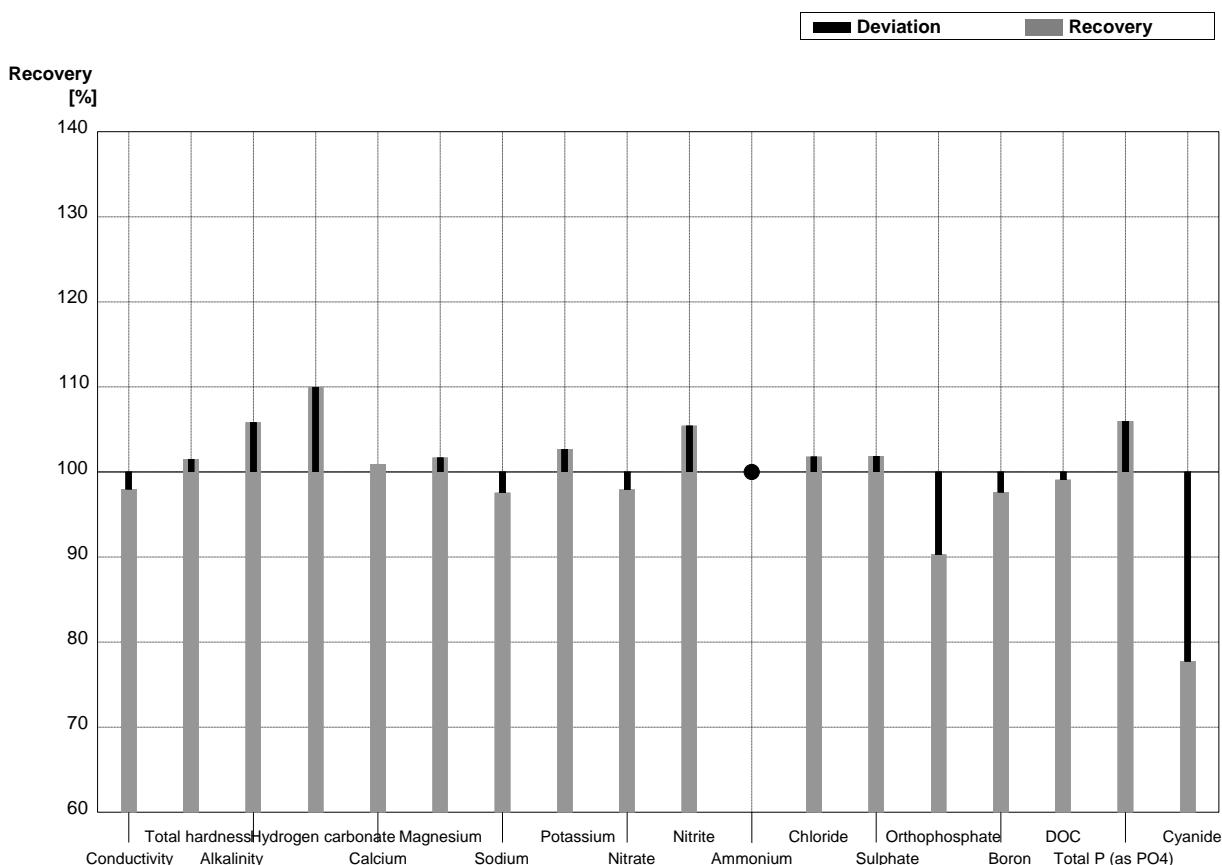
**Sample N153A**  
**Laboratory E**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	700,00	49,4	$\mu\text{S}/\text{cm}$	97%
Total hardness	2,80	0,03	2,82	0,43	$\text{mmol/l}$	101%
Alkalinity	2,99	0,03	3,05	0,109	$\text{mmol/l}$	102%
Hydrogen carbonate	179	2	186,1	6,52	$\text{mg/l}$	104%
Calcium	79,5	1,0	80,24	8,82	$\text{mg/l}$	101%
Magnesium	19,9	0,2	19,8	1,37	$\text{mg/l}$	99%
Sodium	29,2	0,4	28,4	2,14	$\text{mg/l}$	97%
Potassium	7,04	0,07	7,26	1,03	$\text{mg/l}$	103%
Nitrate	69,0	1,5	67,9	2,38	$\text{mg/l}$	98%
Nitrite	0,075	0,001	0,0776	0,005	$\text{mg/l}$	103%
Ammonium	0,108	0,007	0,103	0,010	$\text{mg/l}$	95%
Chloride	66,1	1,2	67,0	4,01	$\text{mg/l}$	101%
Sulphate	53,4	0,6	54,5	1,64	$\text{mg/l}$	102%
Orthophosphate	<0,009		<0,01		$\text{mg/l}$	•
Boron	0,056	0,001	0,054	0,0047	$\text{mg/l}$	96%
DOC	3,04	0,04	3,02	0,3	$\text{mg/l}$	99%
Total P (as PO <sub>4</sub> )	<0,009		<0,01		$\text{mg/l}$	•
Cyanide	0,064	0,002	0,0440	0,0044	$\text{mg/l}$	69%



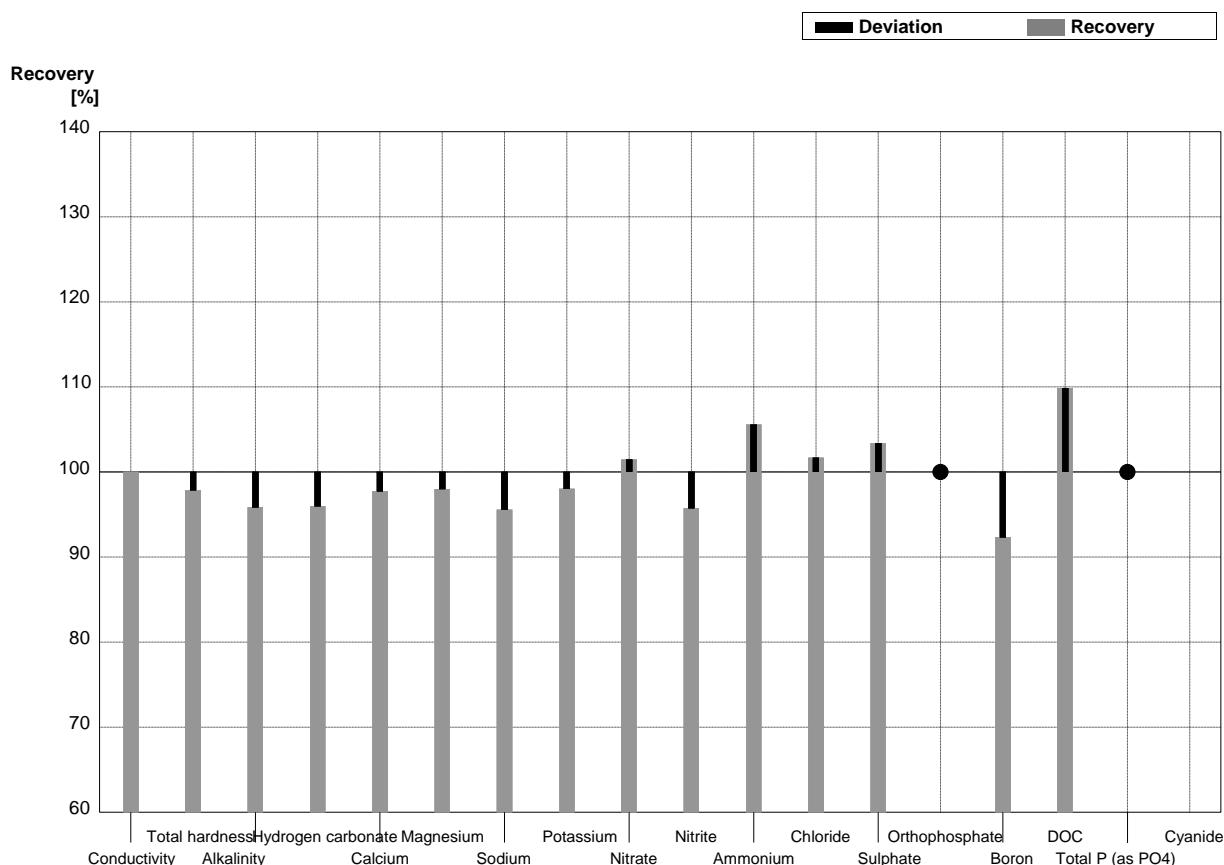
**Sample N153B**  
**Laboratory E**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	387	27,3	$\mu\text{S}/\text{cm}$	98%
Total hardness	1,35	0,01	1,37	0,21	$\text{mmol/l}$	101%
Alkalinity	1,38	0,01	1,46	0,052	$\text{mmol/l}$	106%
Hydrogen carbonate	81,0	0,5	89,08	3,12	$\text{mg/l}$	110%
Calcium	34,3	0,5	34,6	3,80	$\text{mg/l}$	101%
Magnesium	12,0	0,1	12,2	0,843	$\text{mg/l}$	102%
Sodium	20,4	0,1	19,9	1,49	$\text{mg/l}$	98%
Potassium	4,09	0,04	4,20	0,598	$\text{mg/l}$	103%
Nitrate	33,5	0,6	32,8	1,15	$\text{mg/l}$	98%
Nitrite	0,0240	0,0005	0,0253	0,0016	$\text{mg/l}$	105%
Ammonium	<0,01		<0,01		$\text{mg/l}$	•
Chloride	39,4	0,7	40,1	2,41	$\text{mg/l}$	102%
Sulphate	32,0	0,4	32,6	0,98	$\text{mg/l}$	102%
Orthophosphate	0,072	0,002	0,065	0,0045	$\text{mg/l}$	90%
Boron	0,126	0,001	0,123	0,0108	$\text{mg/l}$	98%
DOC	4,28	0,05	4,24	0,42	$\text{mg/l}$	99%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,213	0,0213	$\text{mg/l}$	106%
Cyanide	0,0283	0,0016	0,0220	0,0022	$\text{mg/l}$	78%



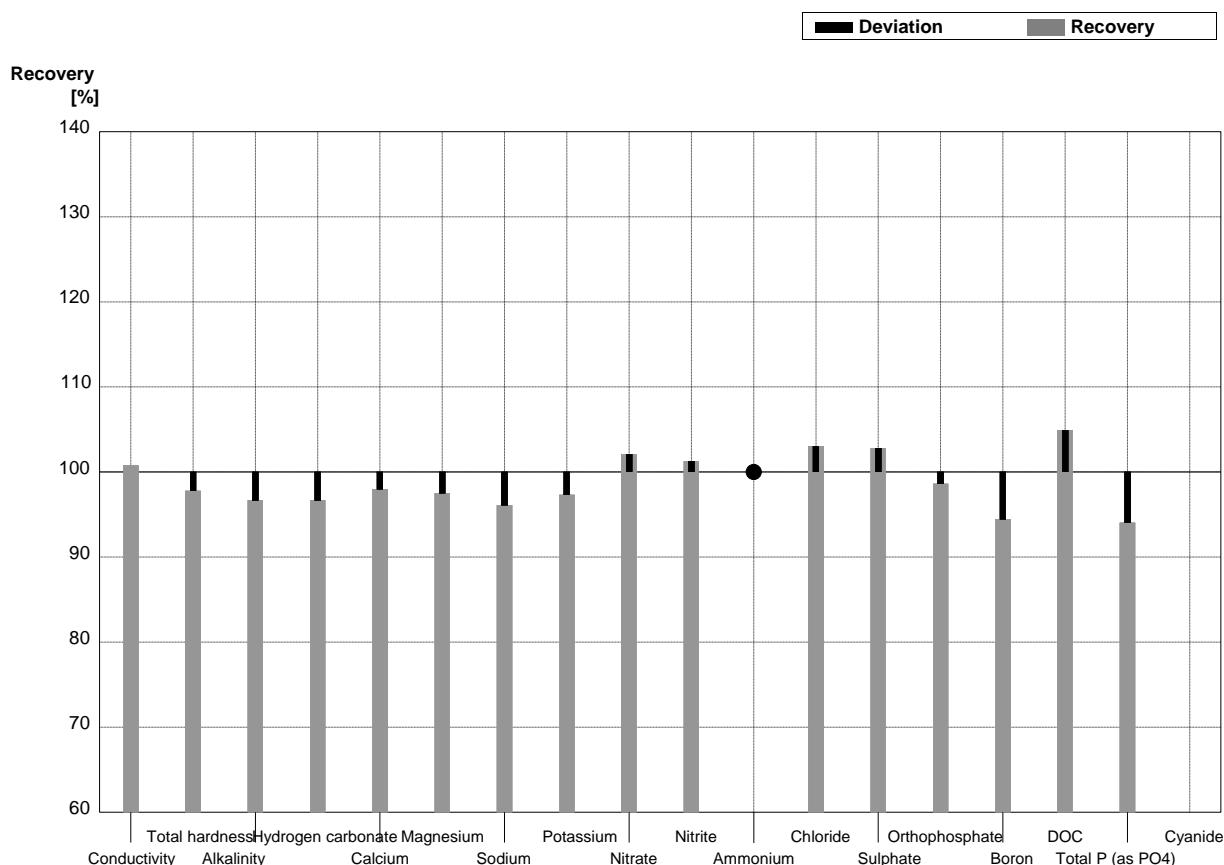
**Sample N153A**  
**Laboratory F**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	721	29	µS/cm	100%
Total hardness	2,80	0,03	2,74	0,14	mmol/l	98%
Alkalinity	2,99	0,03	2,866	0,206	mmol/l	96%
Hydrogen carbonate	179	2	171,8	12,6	mg/l	96%
Calcium	79,5	1,0	77,7	3,7	mg/l	98%
Magnesium	19,9	0,2	19,5	1,2	mg/l	98%
Sodium	29,2	0,4	27,9	1,4	mg/l	96%
Potassium	7,04	0,07	6,9	0,3	mg/l	98%
Nitrate	69,0	1,5	70,0	4,3	mg/l	101%
Nitrite	0,075	0,001	0,0718	0,0070	mg/l	96%
Ammonium	0,108	0,007	0,114	0,018	mg/l	106%
Chloride	66,1	1,2	67,2	5,2	mg/l	102%
Sulphate	53,4	0,6	55,2	5,1	mg/l	103%
Orthophosphate	<0,009		<0,010		mg/l	•
Boron	0,056	0,001	0,0517	0,0072	mg/l	92%
DOC	3,04	0,04	3,34	0,68	mg/l	110%
Total P (as PO4)	<0,009		<0,010		mg/l	•
Cyanide	0,064	0,002			mg/l	



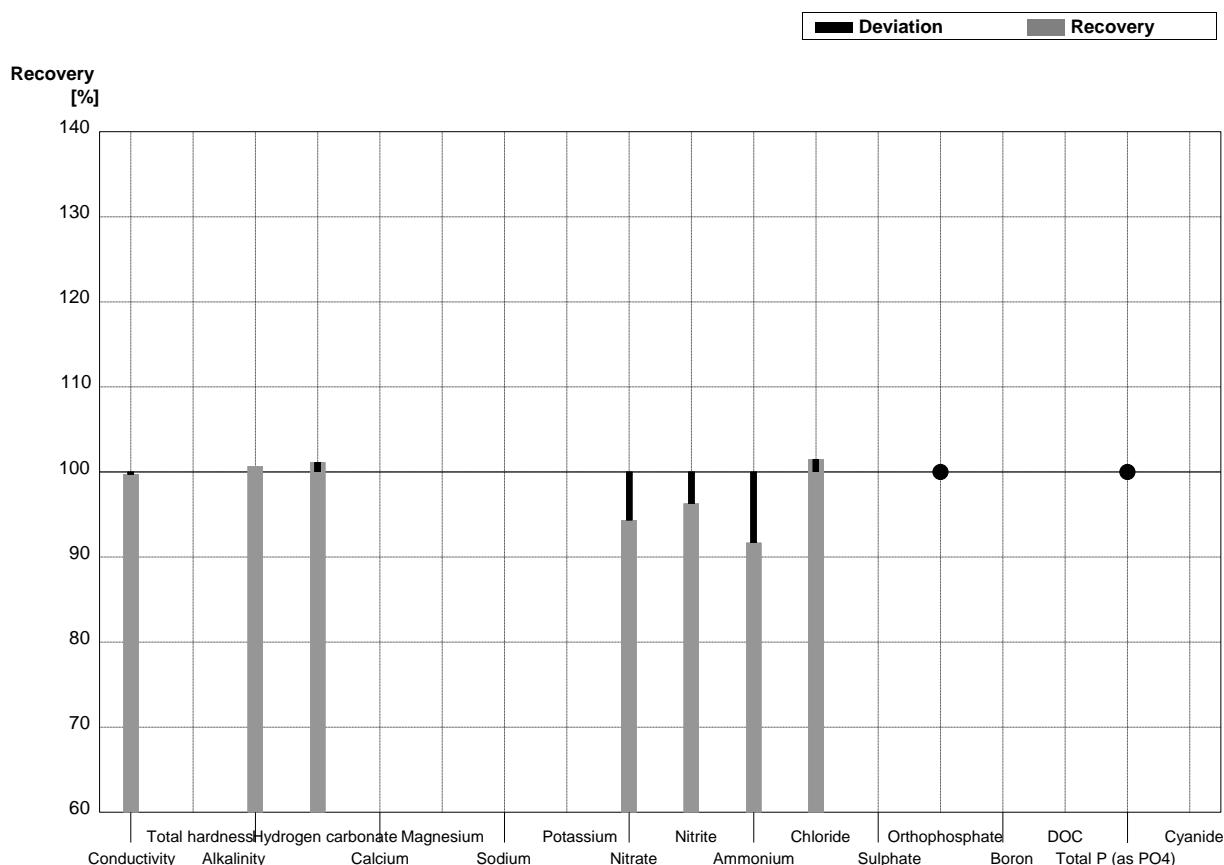
**Sample N153B**  
**Laboratory F**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	398	16	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01	1,32	0,07	$\text{mmol/l}$	98%
Alkalinity	1,38	0,01	1,334	0,110	$\text{mmol/l}$	97%
Hydrogen carbonate	81,0	0,5	78,3	6,7	$\text{mg/l}$	97%
Calcium	34,3	0,5	33,6	1,6	$\text{mg/l}$	98%
Magnesium	12,0	0,1	11,7	0,8	$\text{mg/l}$	98%
Sodium	20,4	0,1	19,6	1,0	$\text{mg/l}$	96%
Potassium	4,09	0,04	3,98	0,19	$\text{mg/l}$	97%
Nitrate	33,5	0,6	34,2	2,1	$\text{mg/l}$	102%
Nitrite	0,0240	0,0005	0,0243	0,0037	$\text{mg/l}$	101%
Ammonium	<0,01		<0,010		$\text{mg/l}$	•
Chloride	39,4	0,7	40,6	3,2	$\text{mg/l}$	103%
Sulphate	32,0	0,4	32,9	3,1	$\text{mg/l}$	103%
Orthophosphate	0,072	0,002	0,071	0,010	$\text{mg/l}$	99%
Boron	0,126	0,001	0,119	0,015	$\text{mg/l}$	94%
DOC	4,28	0,05	4,49	0,87	$\text{mg/l}$	105%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,189	0,029	$\text{mg/l}$	94%
Cyanide	0,0283	0,0016			$\text{mg/l}$	



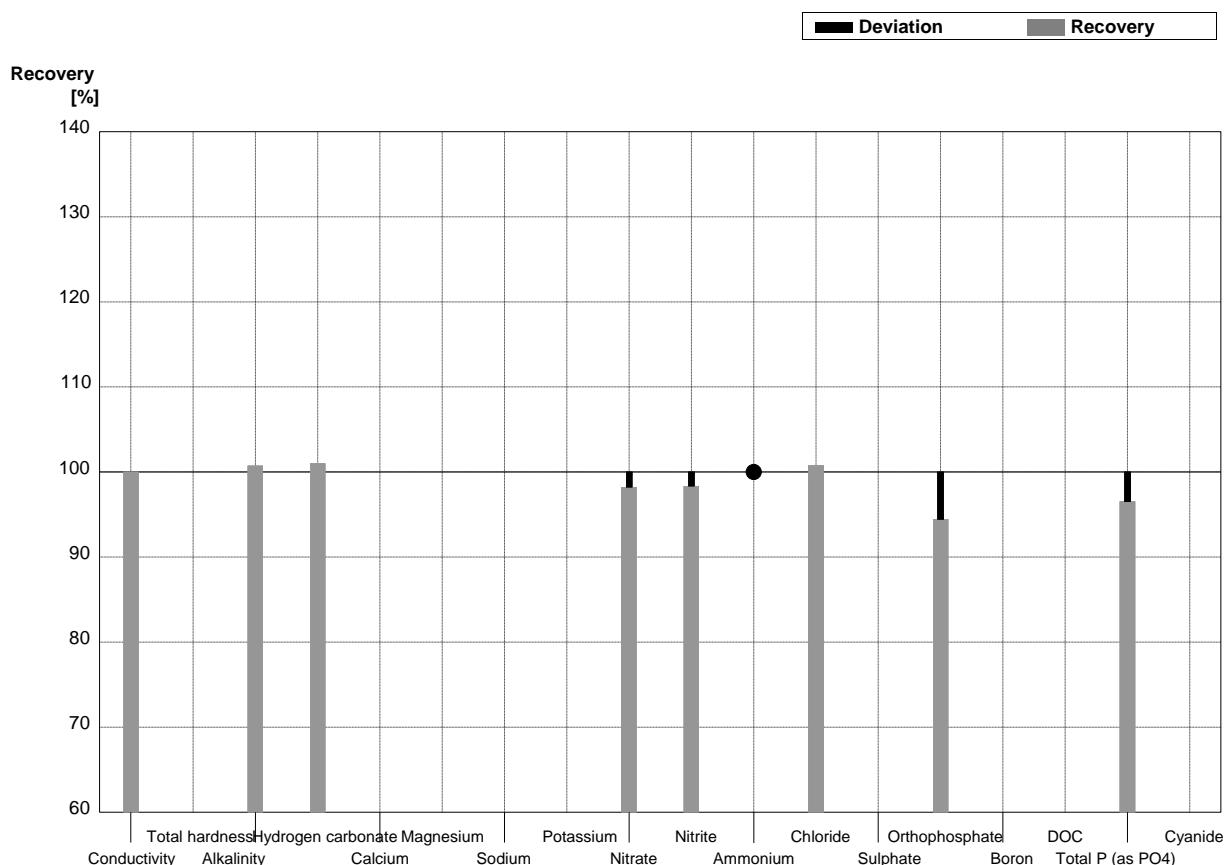
**Sample N153A**  
**Laboratory G**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	719	5,09	µS/cm	100%
Total hardness	2,80	0,03			mmol/l	
Alkalinity	2,99	0,03	3,01	0,08	mmol/l	101%
Hydrogen carbonate	179	2	181	2,61	mg/l	101%
Calcium	79,5	1,0			mg/l	
Magnesium	19,9	0,2			mg/l	
Sodium	29,2	0,4			mg/l	
Potassium	7,04	0,07			mg/l	
Nitrate	69,0	1,5	65,1	4,46	mg/l	94%
Nitrite	0,075	0,001	0,0722	0,0072	mg/l	96%
Ammonium	0,108	0,007	0,099	0,015	mg/l	92%
Chloride	66,1	1,2	67,1	0,68	mg/l	102%
Sulphate	53,4	0,6			mg/l	
Orthophosphate	<0,009		<0,006	0	mg/l	•
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04			mg/l	
Total P (as PO4)	<0,009		<0,006	0	mg/l	•
Cyanide	0,064	0,002			mg/l	



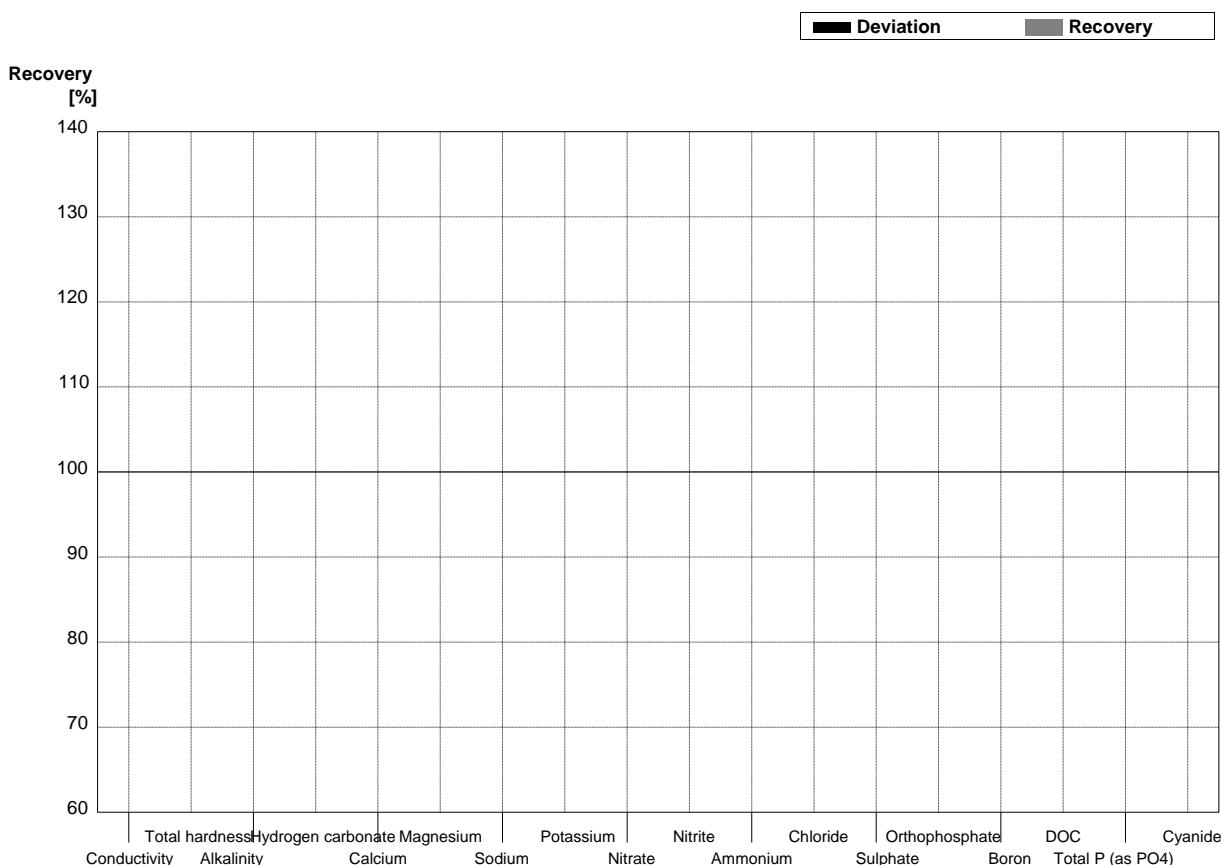
**Sample N153B**  
**Laboratory G**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	395	1	395	2,80	µS/cm	100%
Total hardness	1,35	0,01			mmol/l	
Alkalinity	1,38	0,01	1,39	0,04	mmol/l	101%
Hydrogen carbonate	81,0	0,5	81,8	1,18	mg/l	101%
Calcium	34,3	0,5			mg/l	
Magnesium	12,0	0,1			mg/l	
Sodium	20,4	0,1			mg/l	
Potassium	4,09	0,04			mg/l	
Nitrate	33,5	0,6	32,9	2,25	mg/l	98%
Nitrite	0,0240	0,0005	0,0236	0,0024	mg/l	98%
Ammonium	<0,01		<0,005	0	mg/l	•
Chloride	39,4	0,7	39,7	0,40	mg/l	101%
Sulphate	32,0	0,4			mg/l	
Orthophosphate	0,072	0,002	0,068	0,008	mg/l	94%
Boron	0,126	0,001			mg/l	
DOC	4,28	0,05			mg/l	
Total P (as PO4)	0,201	0,003	0,194	0,026	mg/l	97%
Cyanide	0,0283	0,0016			mg/l	



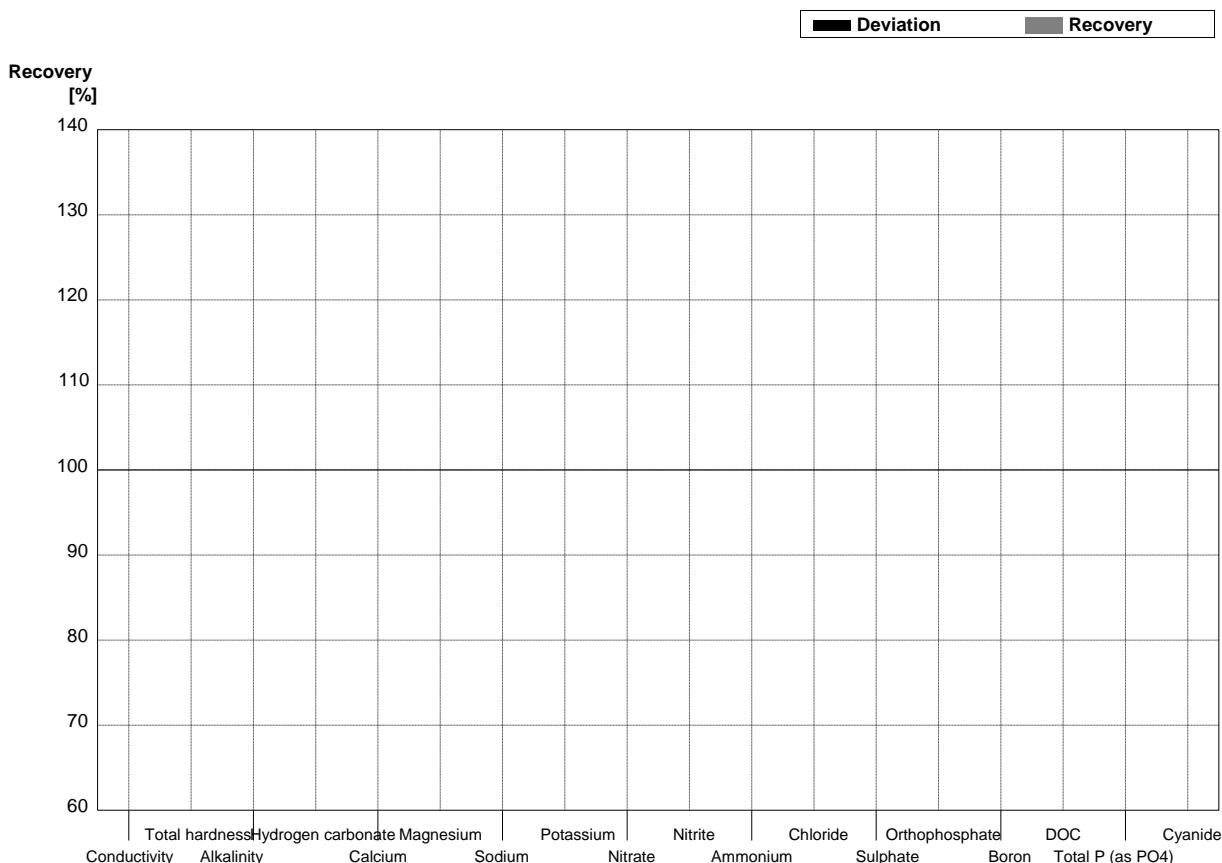
**Sample N153A**  
**Laboratory H**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2			µS/cm	
Total hardness	2,80	0,03			mmol/l	
Alkalinity	2,99	0,03			mmol/l	
Hydrogen carbonate	179	2			mg/l	
Calcium	79,5	1,0			mg/l	
Magnesium	19,9	0,2			mg/l	
Sodium	29,2	0,4			mg/l	
Potassium	7,04	0,07			mg/l	
Nitrate	69,0	1,5			mg/l	
Nitrite	0,075	0,001			mg/l	
Ammonium	0,108	0,007			mg/l	
Chloride	66,1	1,2			mg/l	
Sulphate	53,4	0,6			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04			mg/l	
Total P (as PO <sub>4</sub> )	<0,009				mg/l	
Cyanide	0,064	0,002			mg/l	



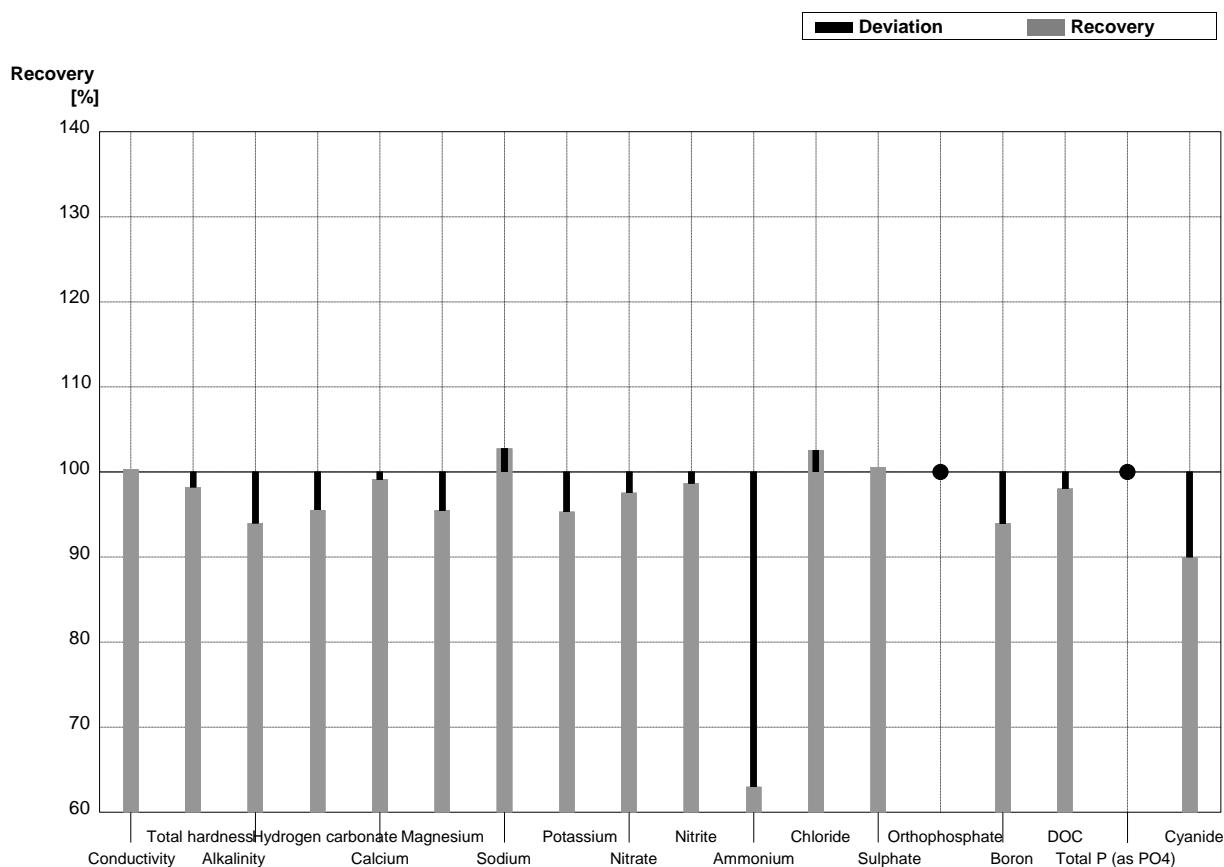
**Sample N153B**  
**Laboratory H**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	395	1			µS/cm	
Total hardness	1,35	0,01			mmol/l	
Alkalinity	1,38	0,01			mmol/l	
Hydrogen carbonate	81,0	0,5			mg/l	
Calcium	34,3	0,5			mg/l	
Magnesium	12,0	0,1			mg/l	
Sodium	20,4	0,1			mg/l	
Potassium	4,09	0,04			mg/l	
Nitrate	33,5	0,6			mg/l	
Nitrite	0,0240	0,0005			mg/l	
Ammonium	<0,01				mg/l	
Chloride	39,4	0,7			mg/l	
Sulphate	32,0	0,4			mg/l	
Orthophosphate	0,072	0,002			mg/l	
Boron	0,126	0,001			mg/l	
DOC	4,28	0,05			mg/l	
Total P (as PO <sub>4</sub> )	0,201	0,003			mg/l	
Cyanide	0,0283	0,0016			mg/l	



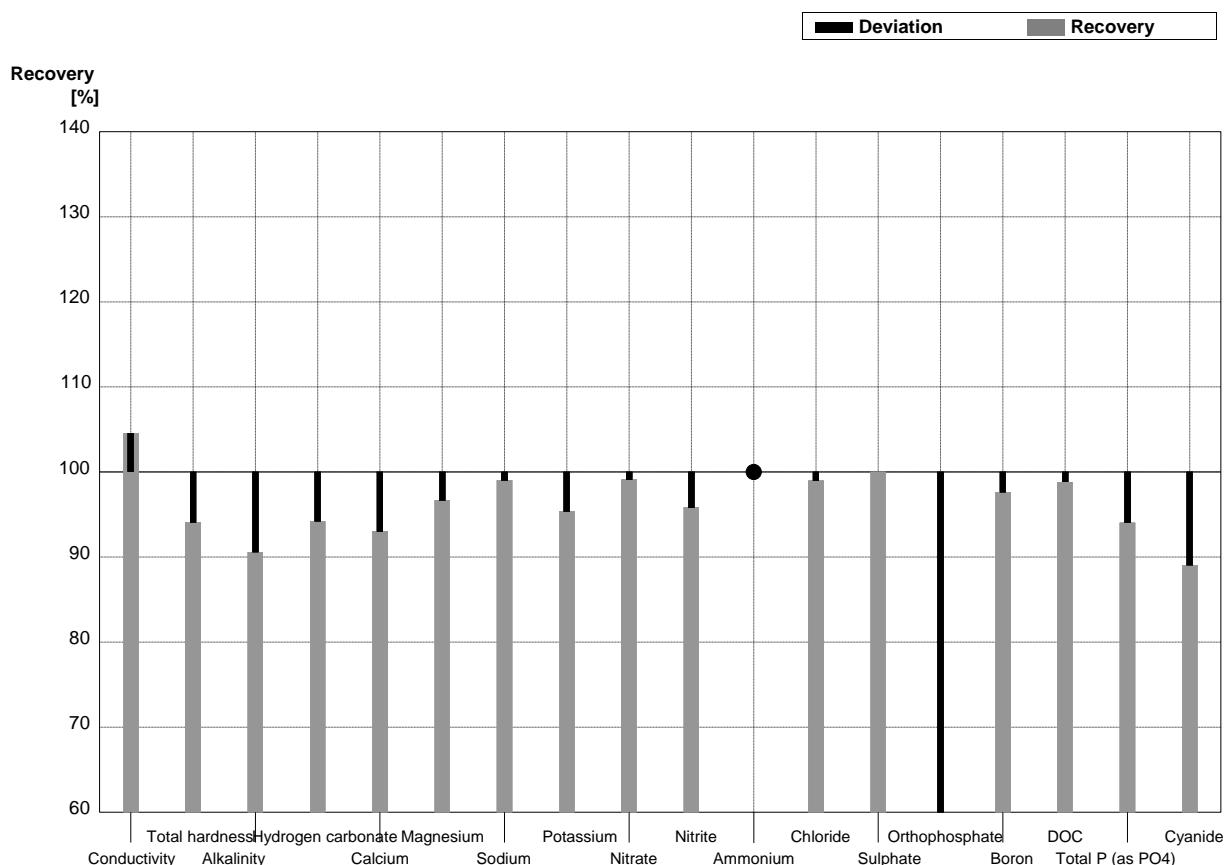
**Sample N153A**  
**Laboratory I**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	723	14	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,80	0,03	2,75	0,17	$\text{mmol/l}$	98%
Alkalinity	2,99	0,03	2,81	0,11	$\text{mmol/l}$	94%
Hydrogen carbonate	179	2	171	7	$\text{mg/l}$	96%
Calcium	79,5	1,0	78,8	5,5	$\text{mg/l}$	99%
Magnesium	19,9	0,2	19,0	1,1	$\text{mg/l}$	95%
Sodium	29,2	0,4	30,0	1,2	$\text{mg/l}$	103%
Potassium	7,04	0,07	6,71	0,27	$\text{mg/l}$	95%
Nitrate	69,0	1,5	67,3	3,4	$\text{mg/l}$	98%
Nitrite	0,075	0,001	0,074	0,003	$\text{mg/l}$	99%
Ammonium	0,108	0,007	0,068	0,006	$\text{mg/l}$	63%
Chloride	66,1	1,2	67,8	3,4	$\text{mg/l}$	103%
Sulphate	53,4	0,6	53,7	2,7	$\text{mg/l}$	101%
Orthophosphate	<0,009		<0,015	0,003	$\text{mg/l}$	•
Boron	0,056	0,001	0,0526	0,0053	$\text{mg/l}$	94%
DOC	3,04	0,04	2,98	0,33	$\text{mg/l}$	98%
Total P (as PO <sub>4</sub> )	<0,009		<0,015	0,005	$\text{mg/l}$	•
Cyanide	0,064	0,002	0,0576	0,005	$\text{mg/l}$	90%



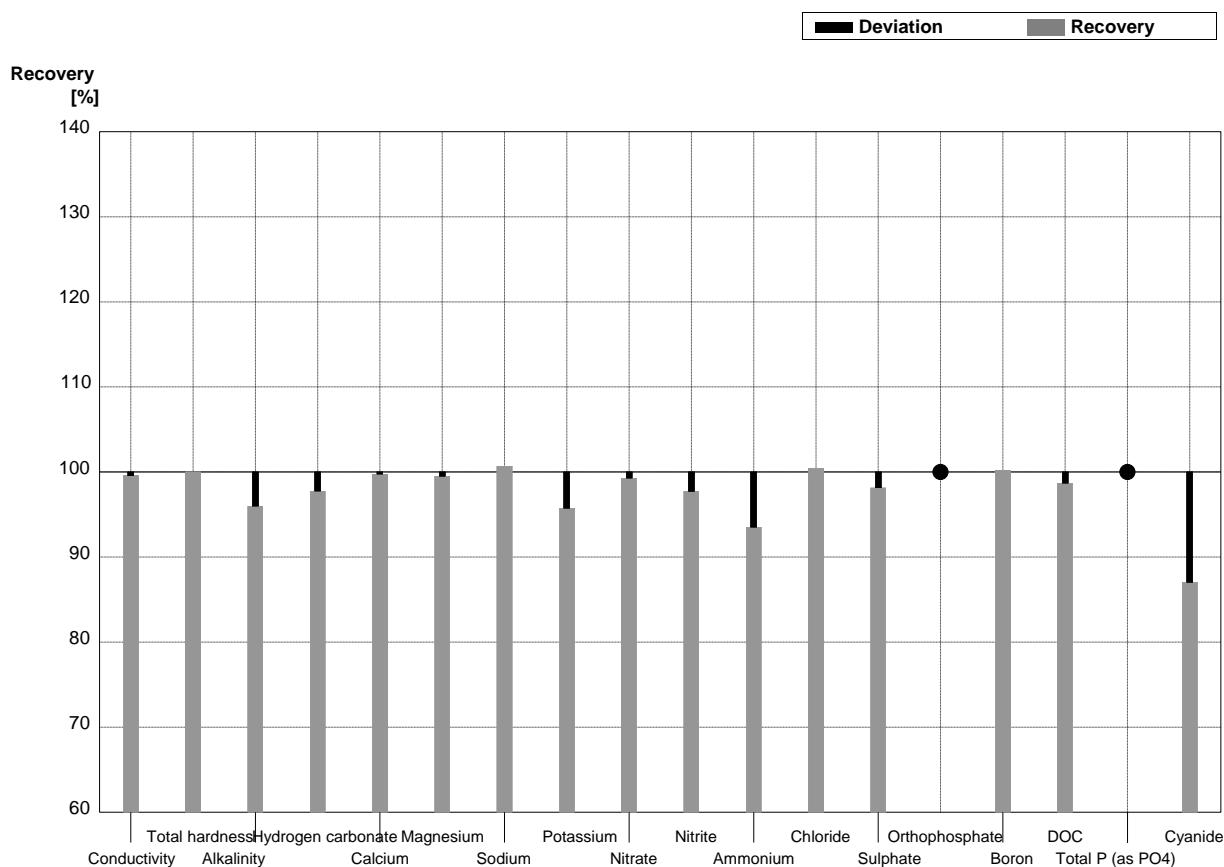
**Sample N153B**  
**Laboratory I**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	413	8	$\mu\text{S}/\text{cm}$	105%
Total hardness	1,35	0,01	1,27	0,08	$\text{mmol/l}$	94%
Alkalinity	1,38	0,01	1,25	0,05	$\text{mmol/l}$	91%
Hydrogen carbonate	81,0	0,5	76,3	3,1	$\text{mg/l}$	94%
Calcium	34,3	0,5	31,9	2,2	$\text{mg/l}$	93%
Magnesium	12,0	0,1	11,6	0,7	$\text{mg/l}$	97%
Sodium	20,4	0,1	20,2	0,8	$\text{mg/l}$	99%
Potassium	4,09	0,04	3,90	0,16	$\text{mg/l}$	95%
Nitrate	33,5	0,6	33,2	1,7	$\text{mg/l}$	99%
Nitrite	0,0240	0,0005	0,0230	0,002	$\text{mg/l}$	96%
Ammonium	<0,01		<0,010	0,003	$\text{mg/l}$	•
Chloride	39,4	0,7	39,0	2,0	$\text{mg/l}$	99%
Sulphate	32,0	0,4	32,0	1,6	$\text{mg/l}$	100%
Orthophosphate	0,072	0,002	0,0230	0,003	$\text{mg/l}$	32%
Boron	0,126	0,001	0,123	0,012	$\text{mg/l}$	98%
DOC	4,28	0,05	4,23	0,47	$\text{mg/l}$	99%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,189	0,016	$\text{mg/l}$	94%
Cyanide	0,0283	0,0016	0,0252	0,002	$\text{mg/l}$	89%



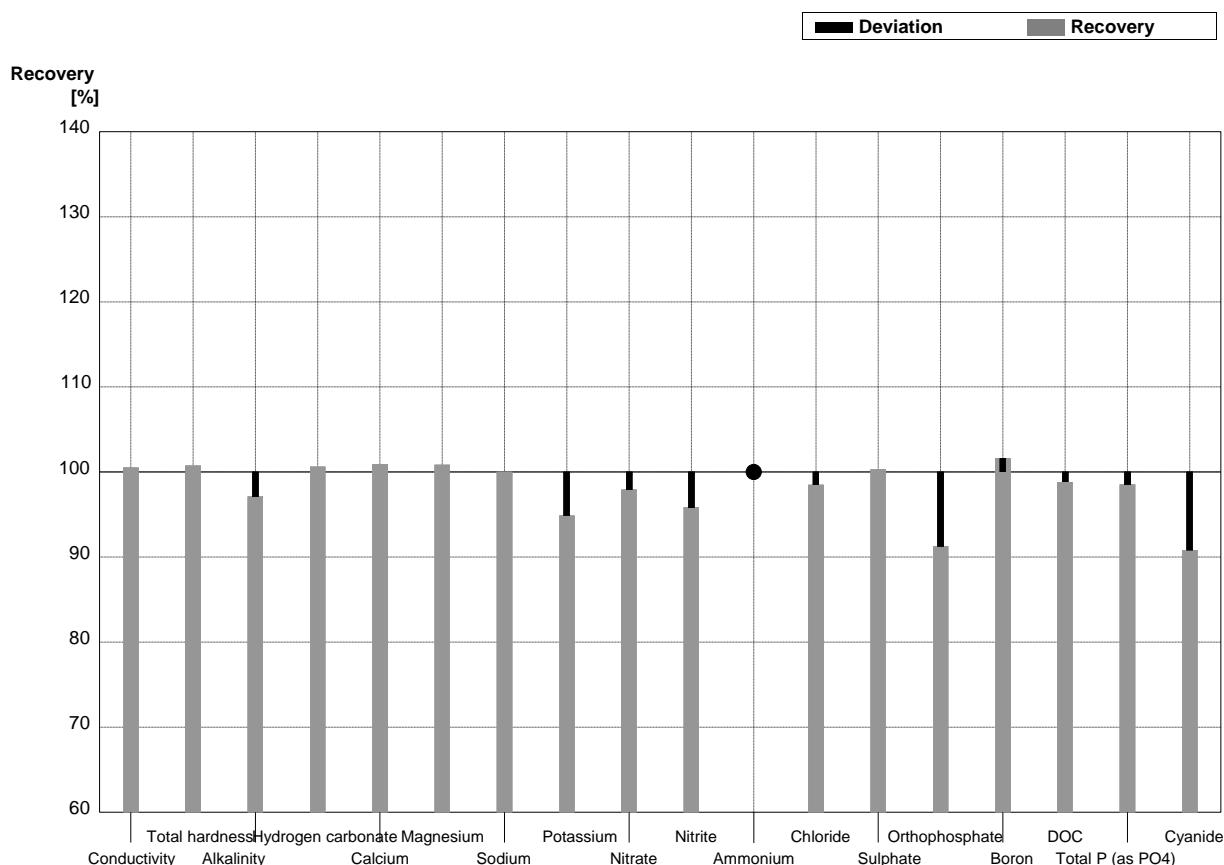
**Sample N153A**  
**Laboratory K**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	718	22	µS/cm	100%
Total hardness	2,80	0,03	2,80	0,23	mmol/l	100%
Alkalinity	2,99	0,03	2,87	0,14	mmol/l	96%
Hydrogen carbonate	179	2	175	8	mg/l	98%
Calcium	79,5	1,0	79,3	3,6	mg/l	100%
Magnesium	19,9	0,2	19,8	1,6	mg/l	99%
Sodium	29,2	0,4	29,4	2,4	mg/l	101%
Potassium	7,04	0,07	6,74	0,48	mg/l	96%
Nitrate	69,0	1,5	68,5	2,3	mg/l	99%
Nitrite	0,075	0,001	0,0733	0,01	mg/l	98%
Ammonium	0,108	0,007	0,101	0,01	mg/l	94%
Chloride	66,1	1,2	66,4	4,5	mg/l	100%
Sulphate	53,4	0,6	52,4	1,7	mg/l	98%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,056	0,001	0,0561	0,01	mg/l	100%
DOC	3,04	0,04	3,00	0,48	mg/l	99%
Total P (as PO4)	<0,009		<0,015		mg/l	•
Cyanide	0,064	0,002	0,0557	0,01	mg/l	87%



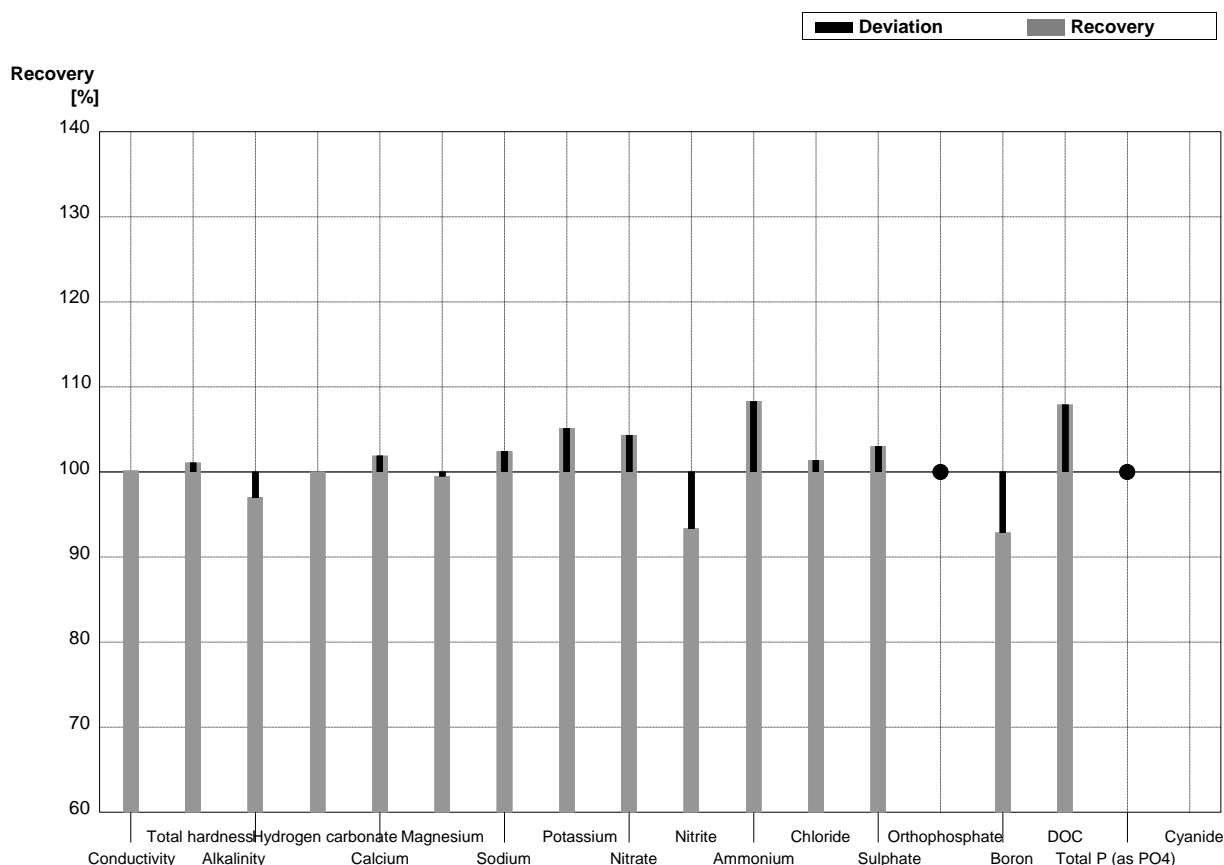
**Sample N153B**  
**Laboratory K**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	397	12	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01	1,36	0,11	$\text{mmol/l}$	101%
Alkalinity	1,38	0,01	1,34	0,06	$\text{mmol/l}$	97%
Hydrogen carbonate	81,0	0,5	81,5	3,9	$\text{mg/l}$	101%
Calcium	34,3	0,5	34,6	1,6	$\text{mg/l}$	101%
Magnesium	12,0	0,1	12,1	1,0	$\text{mg/l}$	101%
Sodium	20,4	0,1	20,4	1,7	$\text{mg/l}$	100%
Potassium	4,09	0,04	3,88	0,28	$\text{mg/l}$	95%
Nitrate	33,5	0,6	32,8	1,1	$\text{mg/l}$	98%
Nitrite	0,0240	0,0005	0,0230	0,003	$\text{mg/l}$	96%
Ammonium	<0,01		<0,01		$\text{mg/l}$	•
Chloride	39,4	0,7	38,8	2,6	$\text{mg/l}$	98%
Sulphate	32,0	0,4	32,1	1,1	$\text{mg/l}$	100%
Orthophosphate	0,072	0,002	0,0657	0,005	$\text{mg/l}$	91%
Boron	0,126	0,001	0,128	0,016	$\text{mg/l}$	102%
DOC	4,28	0,05	4,23	0,68	$\text{mg/l}$	99%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,198	0,014	$\text{mg/l}$	99%
Cyanide	0,0283	0,0016	0,0257	0,004	$\text{mg/l}$	91%



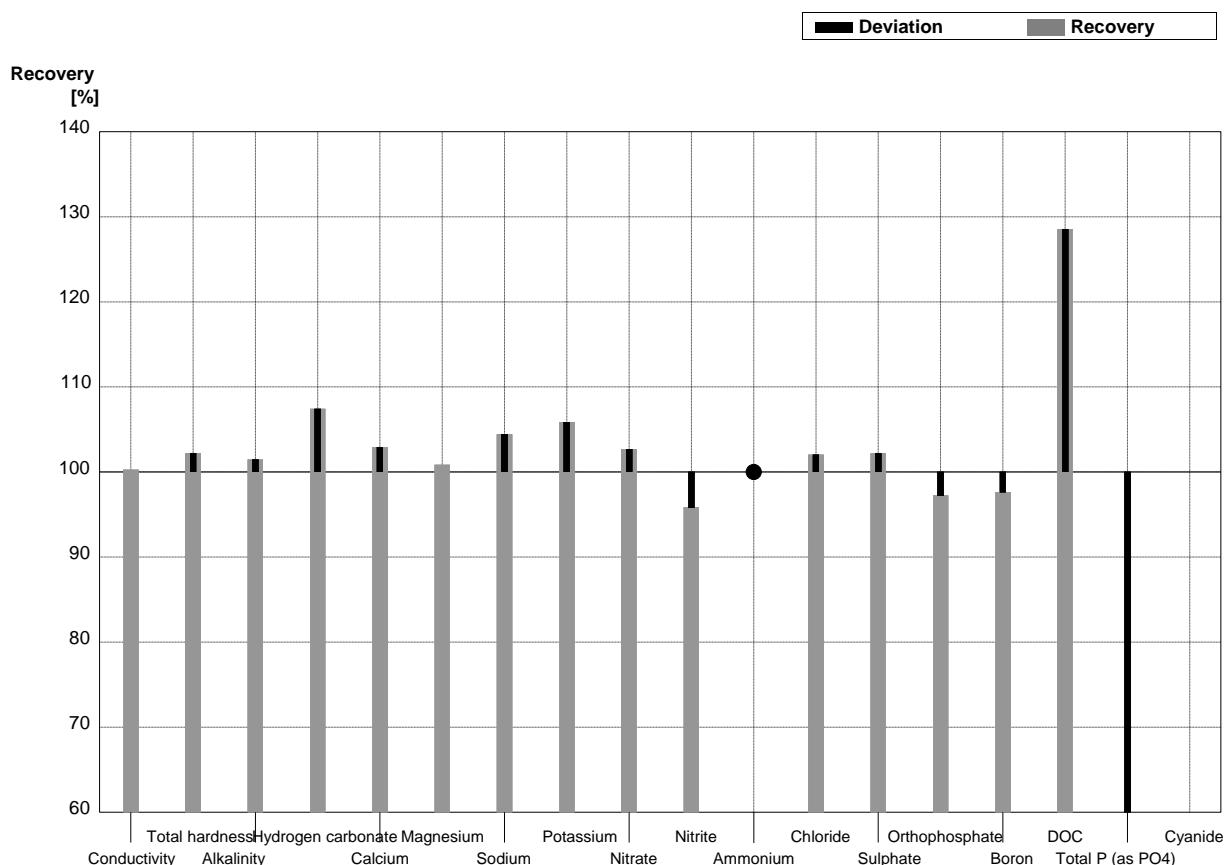
**Sample N153A**  
**Laboratory L**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	722	14	µS/cm	100%
Total hardness	2,80	0,03	2,83	0,28	mmol/l	101%
Alkalinity	2,99	0,03	2,90	0,20	mmol/l	97%
Hydrogen carbonate	179	2	179	14	mg/l	100%
Calcium	79,5	1,0	81	3	mg/l	102%
Magnesium	19,9	0,2	19,8	1,2	mg/l	99%
Sodium	29,2	0,4	29,9	1,2	mg/l	102%
Potassium	7,04	0,07	7,4	0,6	mg/l	105%
Nitrate	69,0	1,5	72	5	mg/l	104%
Nitrite	0,075	0,001	0,070	0,007	mg/l	93%
Ammonium	0,108	0,007	0,117	0,036	mg/l	108%
Chloride	66,1	1,2	67	5	mg/l	101%
Sulphate	53,4	0,6	55	3	mg/l	103%
Orthophosphate	<0,009		<0,009	0,001	mg/l	•
Boron	0,056	0,001	0,052	0,004	mg/l	93%
DOC	3,04	0,04	3,28	0,46	mg/l	108%
Total P (as PO4)	<0,009		'0,0110	0,002	mg/l	•
Cyanide	0,064	0,002			mg/l	



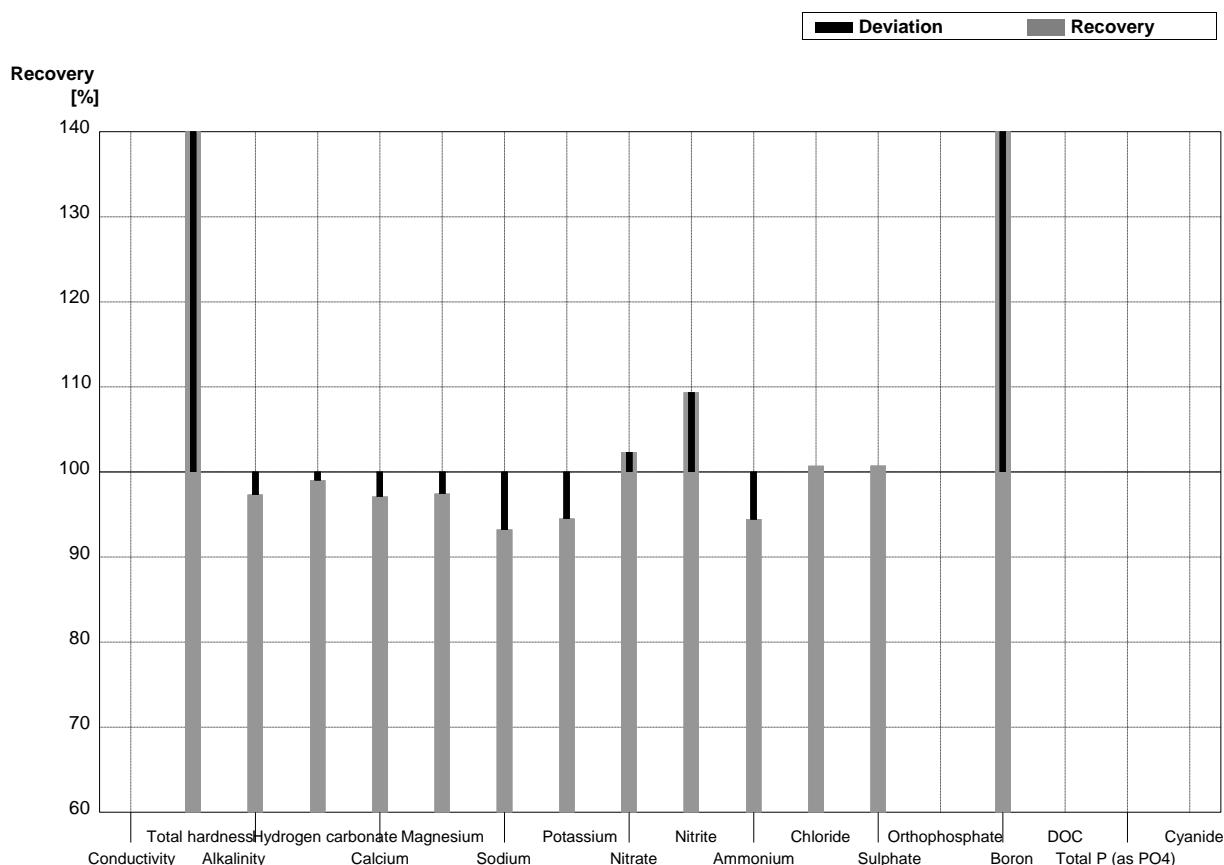
**Sample N153B**  
**Laboratory L**

Parameter	Target value	$\pm$ U ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	396	8	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,35	0,01	1,38	0,14	$\text{mmol/l}$	102%
Alkalinity	1,38	0,01	1,40	0,1	$\text{mmol/l}$	101%
Hydrogen carbonate	81,0	0,5	87	7	$\text{mg/l}$	107%
Calcium	34,3	0,5	35,3	2,8	$\text{mg/l}$	103%
Magnesium	12,0	0,1	12,1	0,7	$\text{mg/l}$	101%
Sodium	20,4	0,1	21,3	0,9	$\text{mg/l}$	104%
Potassium	4,09	0,04	4,33	0,35	$\text{mg/l}$	106%
Nitrate	33,5	0,6	34,4	2,4	$\text{mg/l}$	103%
Nitrite	0,0240	0,0005	0,0230	0,002	$\text{mg/l}$	96%
Ammonium	<0,01		<0,02	0,006	$\text{mg/l}$	•
Chloride	39,4	0,7	40,2	3,2	$\text{mg/l}$	102%
Sulphate	32,0	0,4	32,7	2,0	$\text{mg/l}$	102%
Orthophosphate	0,072	0,002	0,070	0,011	$\text{mg/l}$	97%
Boron	0,126	0,001	0,123	0,009	$\text{mg/l}$	98%
DOC	4,28	0,05	5,5	0,8	$\text{mg/l}$	129%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,0170	0,002	$\text{mg/l}$	8%
Cyanide	0,0283	0,0016			$\text{mg/l}$	



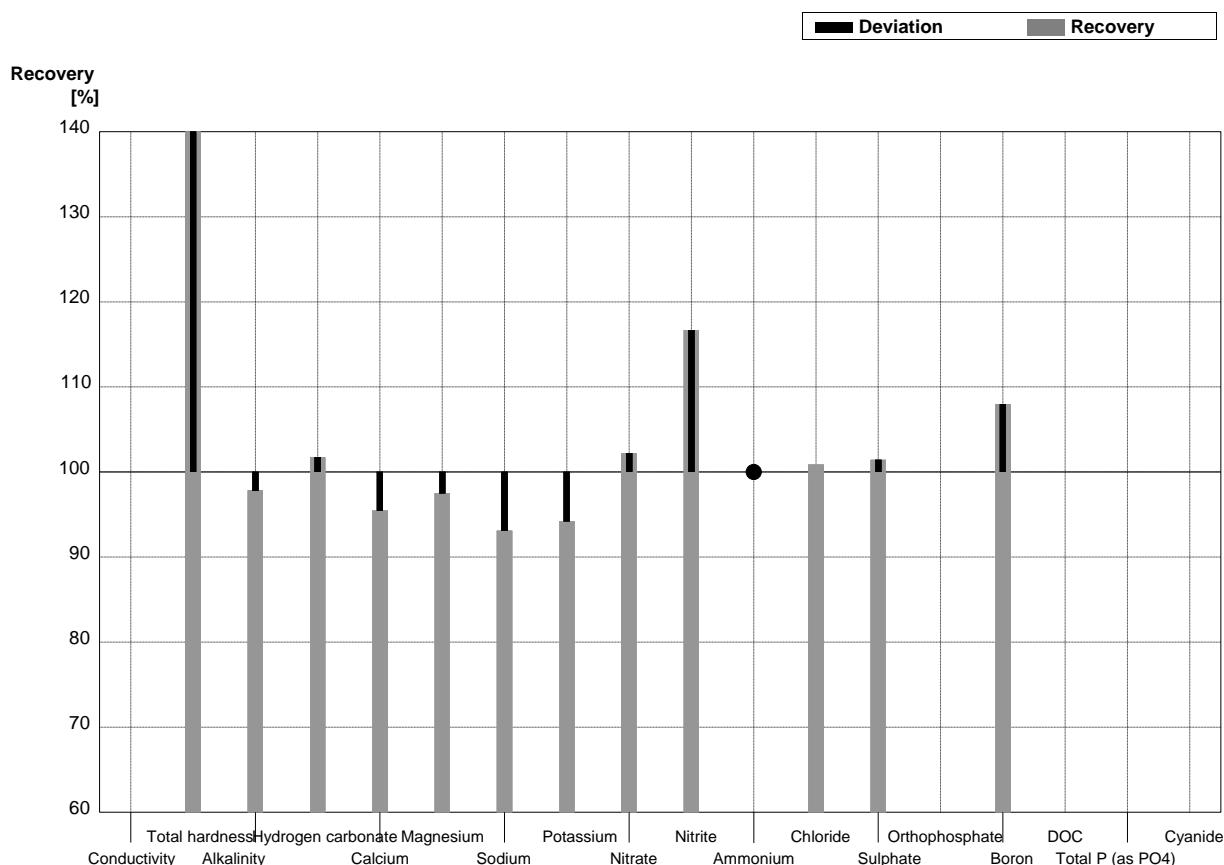
**Sample N153A**  
**Laboratory M**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2			µS/cm	
Total hardness	2,80	0,03	15,7		mmol/l	561%
Alkalinity	2,99	0,03	2,91		mmol/l	97%
Hydrogen carbonate	179	2	177,27		mg/l	99%
Calcium	79,5	1,0	77,19		mg/l	97%
Magnesium	19,9	0,2	19,39		mg/l	97%
Sodium	29,2	0,4	27,22		mg/l	93%
Potassium	7,04	0,07	6,653		mg/l	95%
Nitrate	69,0	1,5	70,61		mg/l	102%
Nitrite	0,075	0,001	0,082		mg/l	109%
Ammonium	0,108	0,007	0,102		mg/l	94%
Chloride	66,1	1,2	66,57		mg/l	101%
Sulphate	53,4	0,6	53,79		mg/l	101%
Orthophosphate	<0,009				mg/l	
Boron	0,056	0,001	0,0970		mg/l	173%
DOC	3,04	0,04			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,064	0,002			mg/l	



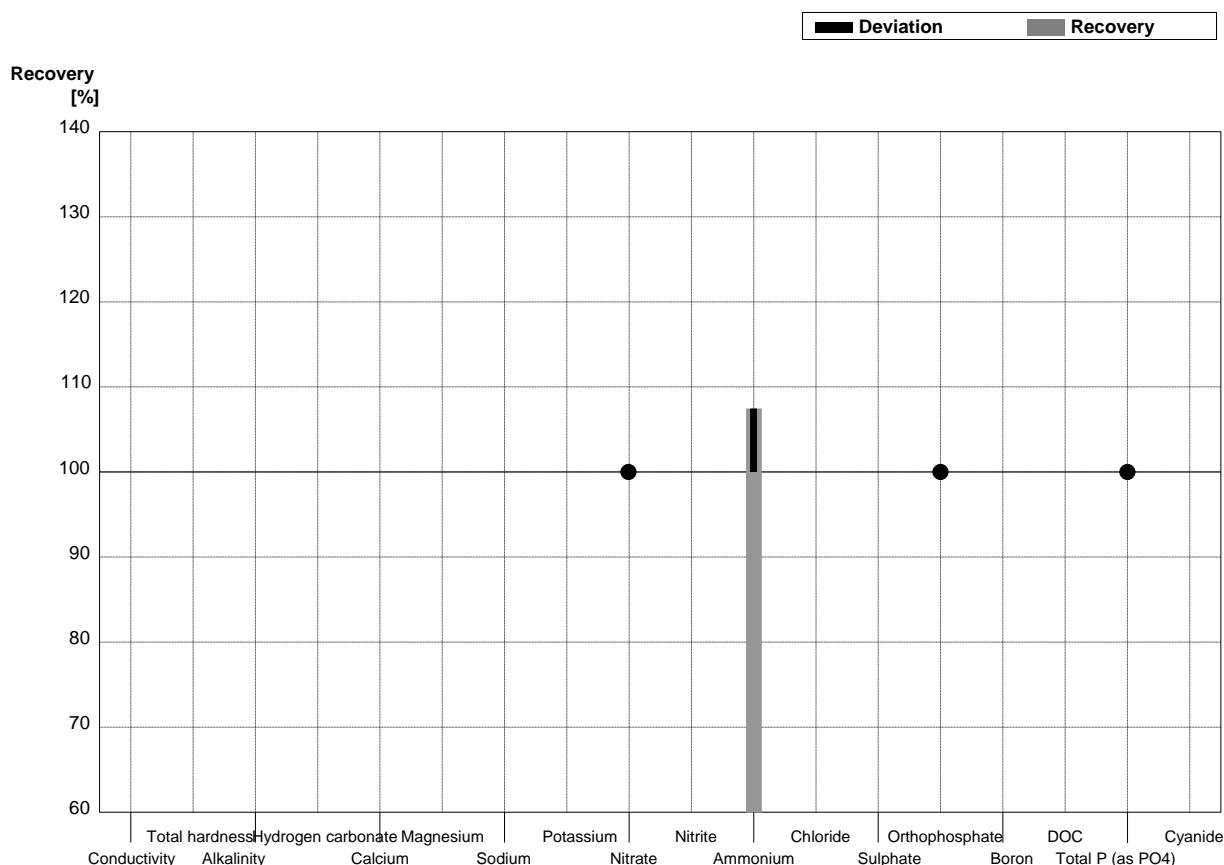
**Sample N153B**  
**Laboratory M**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,35	0,01	6,7		$\text{mmol/l}$	496%
Alkalinity	1,38	0,01	1,35		$\text{mmol/l}$	98%
Hydrogen carbonate	81,0	0,5	82,38		$\text{mg/l}$	102%
Calcium	34,3	0,5	32,74		$\text{mg/l}$	95%
Magnesium	12,0	0,1	11,70		$\text{mg/l}$	98%
Sodium	20,4	0,1	18,99		$\text{mg/l}$	93%
Potassium	4,09	0,04	3,853		$\text{mg/l}$	94%
Nitrate	33,5	0,6	34,24		$\text{mg/l}$	102%
Nitrite	0,0240	0,0005	0,0280		$\text{mg/l}$	117%
Ammonium	<0,01		<0,06		$\text{mg/l}$	•
Chloride	39,4	0,7	39,74		$\text{mg/l}$	101%
Sulphate	32,0	0,4	32,45		$\text{mg/l}$	101%
Orthophosphate	0,072	0,002			$\text{mg/l}$	
Boron	0,126	0,001	0,136		$\text{mg/l}$	108%
DOC	4,28	0,05			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,201	0,003			$\text{mg/l}$	
Cyanide	0,0283	0,0016			$\text{mg/l}$	



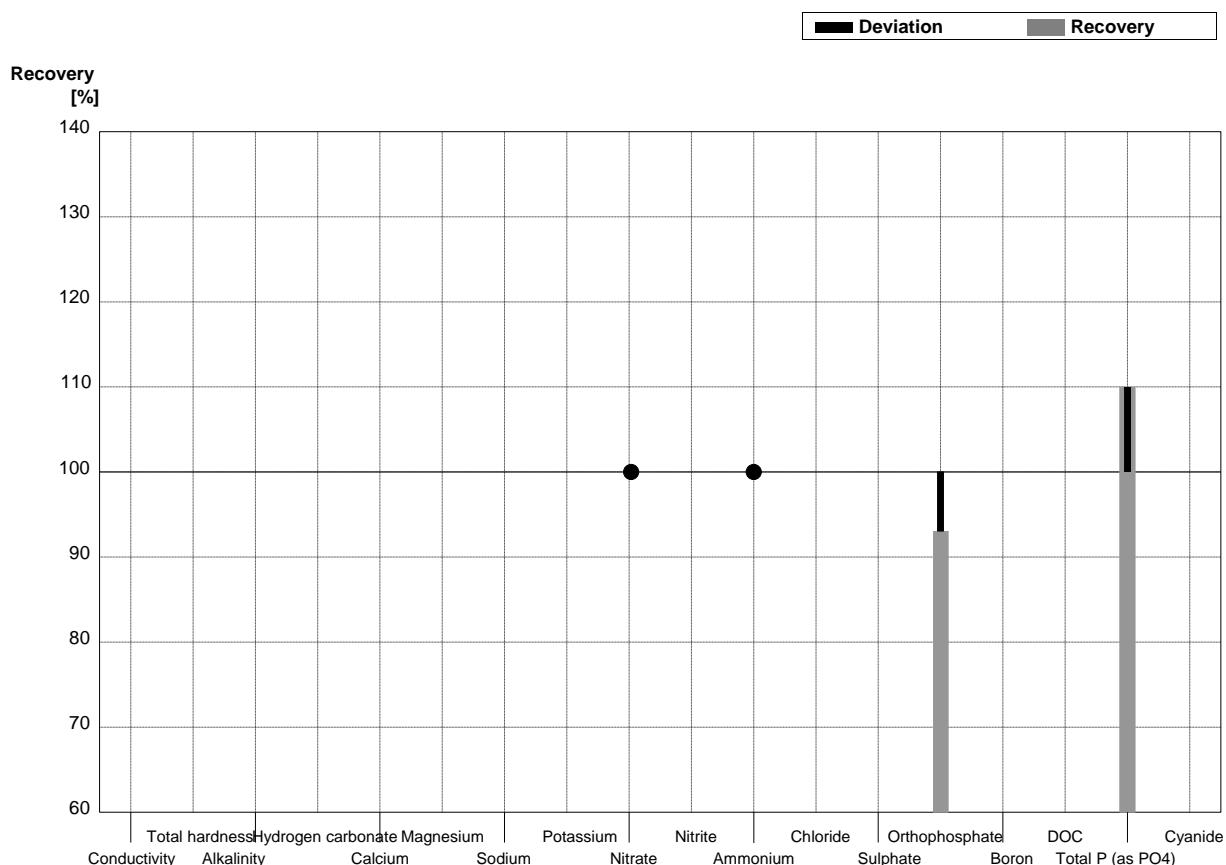
**Sample N153A**  
**Laboratory N**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2			µS/cm	
Total hardness	2,80	0,03			mmol/l	
Alkalinity	2,99	0,03			mmol/l	
Hydrogen carbonate	179	2			mg/l	
Calcium	79,5	1,0			mg/l	
Magnesium	19,9	0,2			mg/l	
Sodium	29,2	0,4			mg/l	
Potassium	7,04	0,07			mg/l	
Nitrate	69,0	1,5	>30		mg/l	•
Nitrite	0,075	0,001			mg/l	
Ammonium	0,108	0,007	0,116	0,01	mg/l	107%
Chloride	66,1	1,2			mg/l	
Sulphate	53,4	0,6			mg/l	
Orthophosphate	<0,009		<0,019		mg/l	•
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04			mg/l	
Total P (as PO4)	<0,009		<0,02		mg/l	•
Cyanide	0,064	0,002			mg/l	



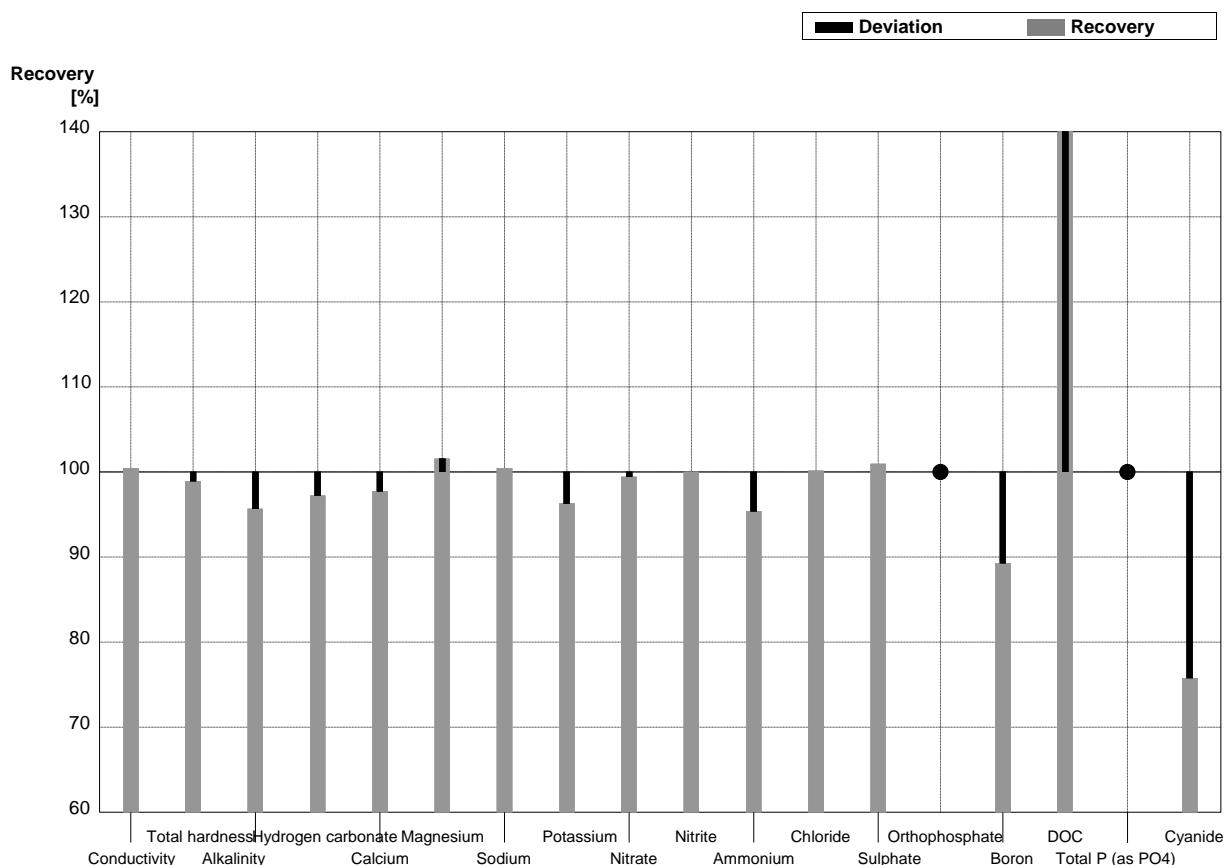
**Sample N153B**  
**Laboratory N**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	395	1			µS/cm	
Total hardness	1,35	0,01			mmol/l	
Alkalinity	1,38	0,01			mmol/l	
Hydrogen carbonate	81,0	0,5			mg/l	
Calcium	34,3	0,5			mg/l	
Magnesium	12,0	0,1			mg/l	
Sodium	20,4	0,1			mg/l	
Potassium	4,09	0,04			mg/l	
Nitrate	33,5	0,6	>30		mg/l	•
Nitrite	0,0240	0,0005			mg/l	
Ammonium	<0,01		<0,01		mg/l	•
Chloride	39,4	0,7			mg/l	
Sulphate	32,0	0,4			mg/l	
Orthophosphate	0,072	0,002	0,067	0,017	mg/l	93%
Boron	0,126	0,001			mg/l	
DOC	4,28	0,05			mg/l	
Total P (as PO <sub>4</sub> )	0,201	0,003	0,221	0,009	mg/l	110%
Cyanide	0,0283	0,0016			mg/l	



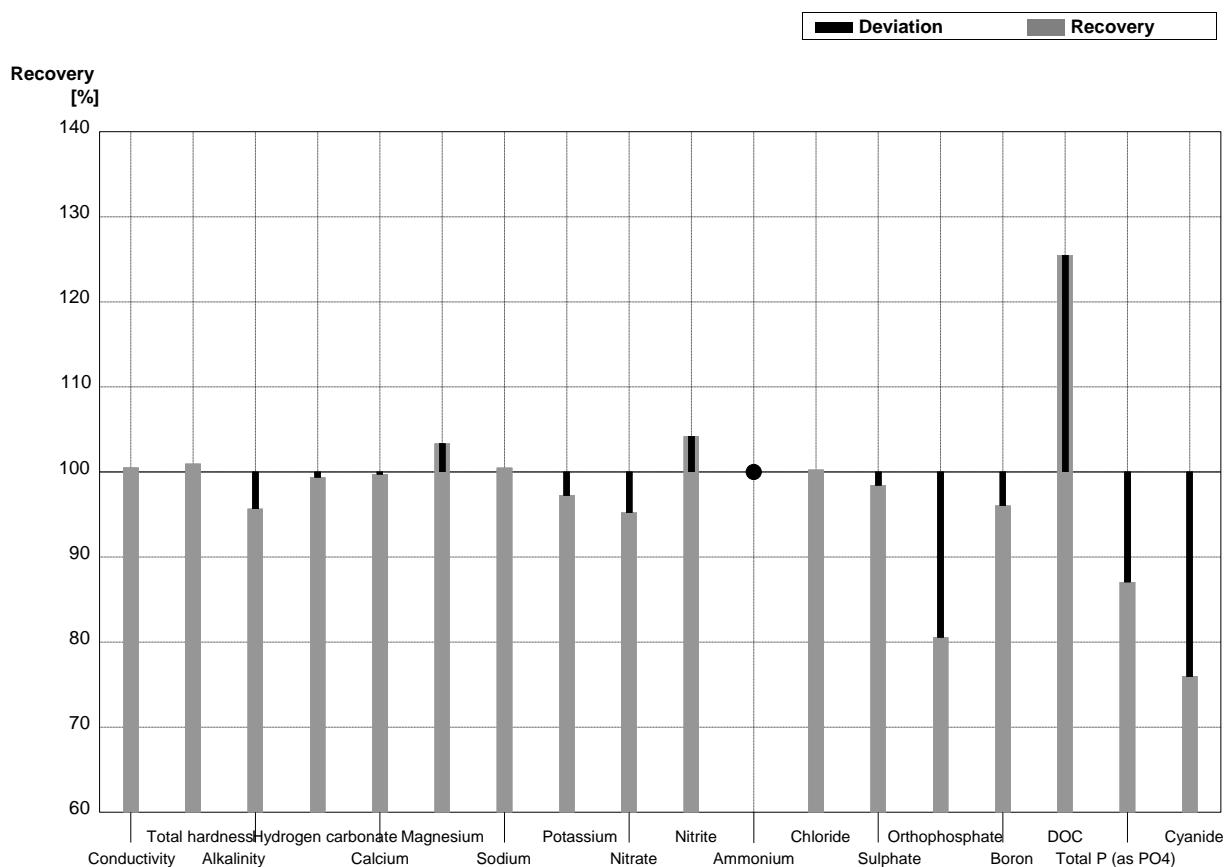
**Sample N153A**  
**Laboratory O**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	724	7,602	µS/cm	100%
Total hardness	2,80	0,03	2,770	0,28	mmol/l	99%
Alkalinity	2,99	0,03	2,86		mmol/l	96%
Hydrogen carbonate	179	2	174		mg/l	97%
Calcium	79,5	1,0	77,69	7,7	mg/l	98%
Magnesium	19,9	0,2	20,21	2,0	mg/l	102%
Sodium	29,2	0,4	29,33	2,9	mg/l	100%
Potassium	7,04	0,07	6,779	0,7	mg/l	96%
Nitrate	69,0	1,5	68,6	8,170	mg/l	99%
Nitrite	0,075	0,001	0,075	0,0065	mg/l	100%
Ammonium	0,108	0,007	0,103	0,0084	mg/l	95%
Chloride	66,1	1,2	66,2	5,296	mg/l	100%
Sulphate	53,4	0,6	53,9	4,926	mg/l	101%
Orthophosphate	<0,009		0,0089	0,0013	mg/l	•
Boron	0,056	0,001	0,050	0,005	mg/l	89%
DOC	3,04	0,04	4,85	0,49	mg/l	160%
Total P (as PO4)	<0,009		0,0089	0,0013	mg/l	•
Cyanide	0,064	0,002	0,0485	0,0082	mg/l	76%



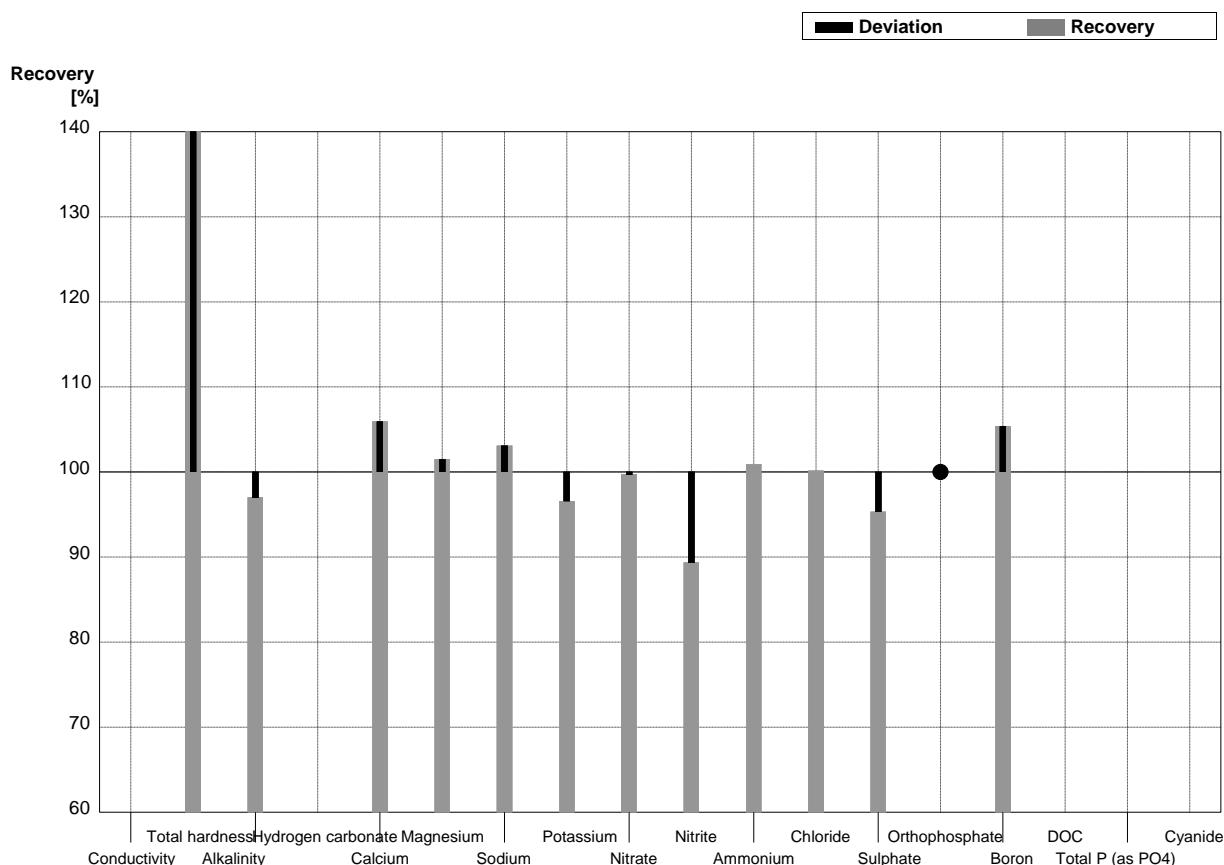
**Sample N153B**  
**Laboratory O**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	397	4,169	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01	1,363	0,13	$\text{mmol/l}$	101%
Alkalinity	1,38	0,01	1,32		$\text{mmol/l}$	96%
Hydrogen carbonate	81,0	0,5	80,5		$\text{mg/l}$	99%
Calcium	34,3	0,5	34,21	3,4	$\text{mg/l}$	100%
Magnesium	12,0	0,1	12,40	1,2	$\text{mg/l}$	103%
Sodium	20,4	0,1	20,50	2,0	$\text{mg/l}$	100%
Potassium	4,09	0,04	3,977	0,4	$\text{mg/l}$	97%
Nitrate	33,5	0,6	31,9	3,799	$\text{mg/l}$	95%
Nitrite	0,0240	0,0005	0,0250	0,0022	$\text{mg/l}$	104%
Ammonium	<0,01		0,0063	0,0005	$\text{mg/l}$	•
Chloride	39,4	0,7	39,5	3,160	$\text{mg/l}$	100%
Sulphate	32,0	0,4	31,5	2,879	$\text{mg/l}$	98%
Orthophosphate	0,072	0,002	0,0580	0,0051	$\text{mg/l}$	81%
Boron	0,126	0,001	0,121	0,01	$\text{mg/l}$	96%
DOC	4,28	0,05	5,37	0,54	$\text{mg/l}$	125%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,175	0,0155	$\text{mg/l}$	87%
Cyanide	0,0283	0,0016	0,0215	0,0036	$\text{mg/l}$	76%



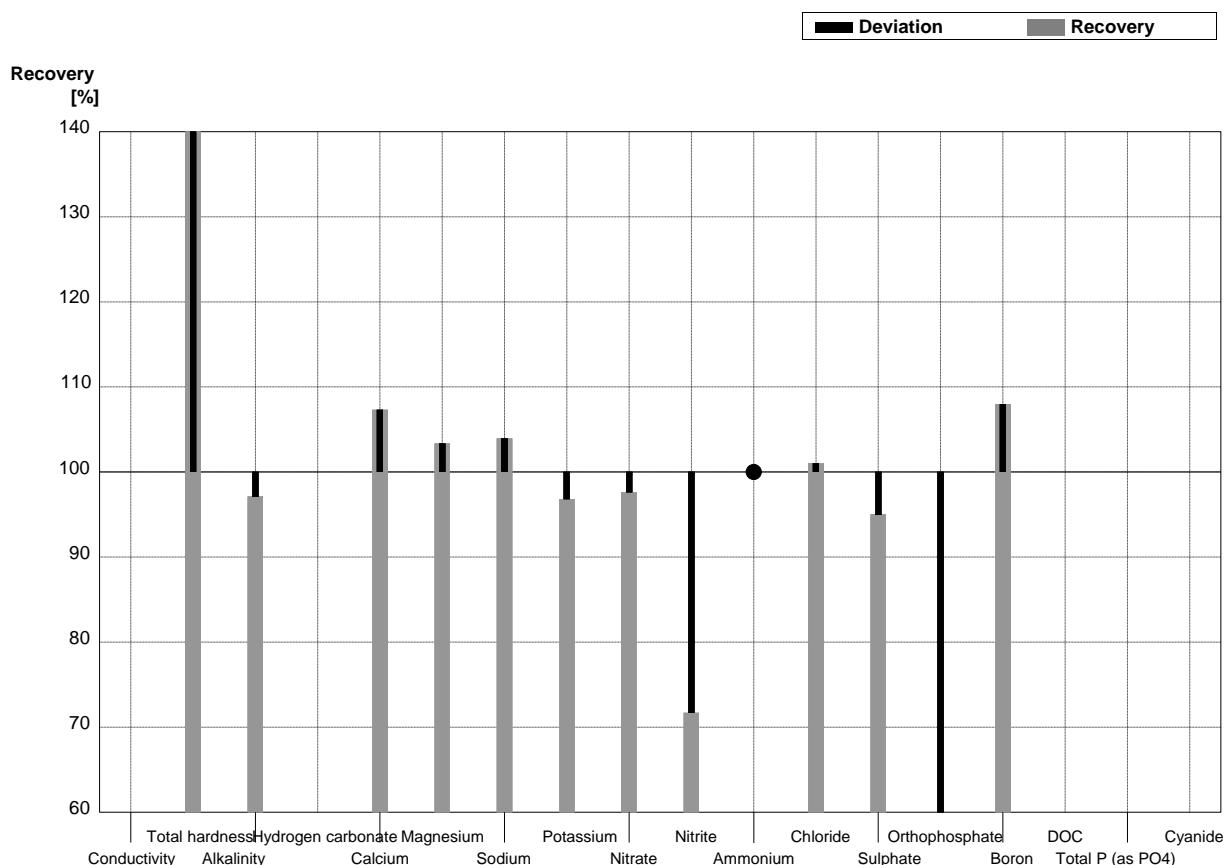
**Sample N153A**  
**Laboratory P**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2			$\mu\text{S}/\text{cm}$	
Total hardness	2,80	0,03	16,5	0,494	$\text{mmol/l}$	589%
Alkalinity	2,99	0,03	2,90	0,0406	$\text{mmol/l}$	97%
Hydrogen carbonate	179	2			$\text{mg/l}$	
Calcium	79,5	1,0	84,2	2,52	$\text{mg/l}$	106%
Magnesium	19,9	0,2	20,2	0,606	$\text{mg/l}$	102%
Sodium	29,2	0,4	30,1	0,904	$\text{mg/l}$	103%
Potassium	7,04	0,07	6,80	0,204	$\text{mg/l}$	97%
Nitrate	69,0	1,5	68,8	4,82	$\text{mg/l}$	100%
Nitrite	0,075	0,001	0,0670	0,00228	$\text{mg/l}$	89%
Ammonium	0,108	0,007	0,109	0,0109	$\text{mg/l}$	101%
Chloride	66,1	1,2	66,2	8,14	$\text{mg/l}$	100%
Sulphate	53,4	0,6	50,9	4,38	$\text{mg/l}$	95%
Orthophosphate	<0,009		<0,01	0	$\text{mg/l}$	•
Boron	0,056	0,001	0,0590	0,00176	$\text{mg/l}$	105%
DOC	3,04	0,04			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,064	0,002			$\text{mg/l}$	



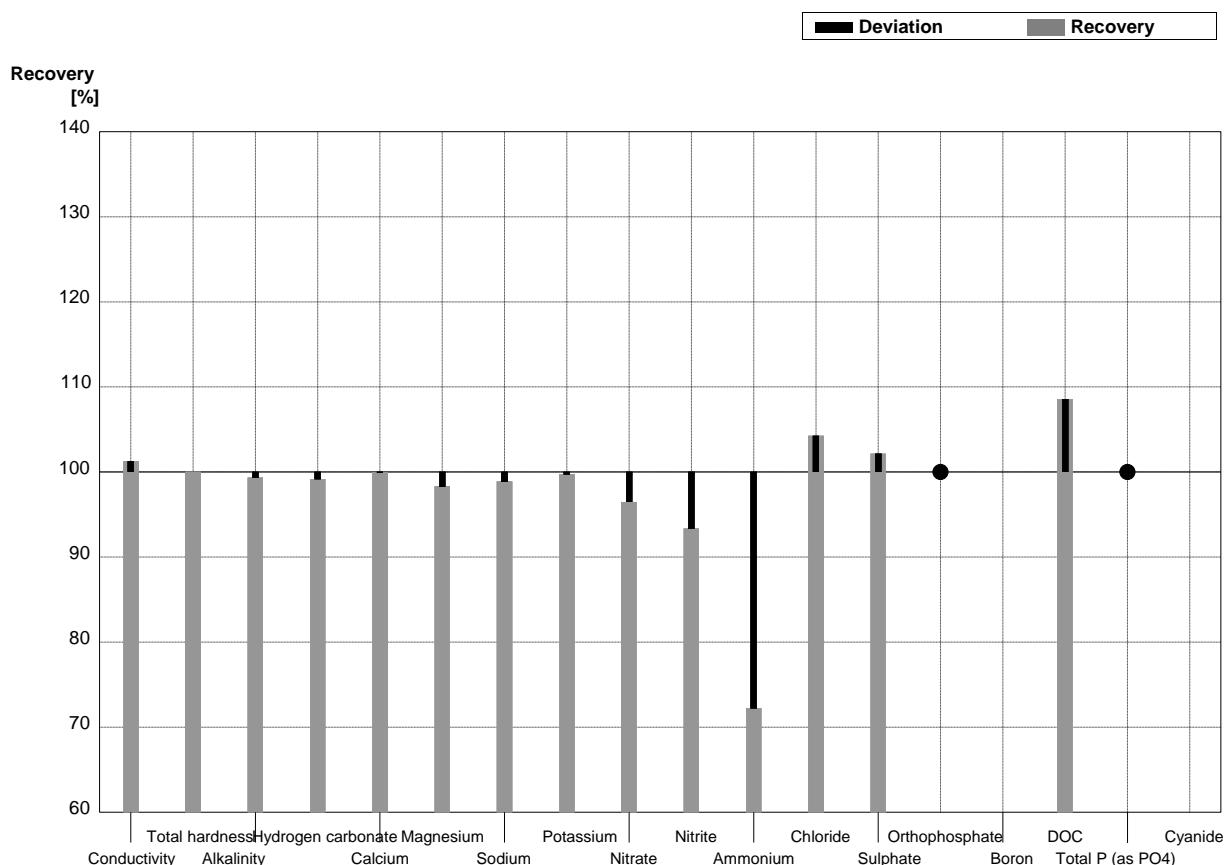
**Sample N153B**  
**Laboratory P**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,35	0,01	8,01	0,240	$\text{mmol/l}$	593%
Alkalinity	1,38	0,01	1,34	0,0188	$\text{mmol/l}$	97%
Hydrogen carbonate	81,0	0,5			$\text{mg/l}$	
Calcium	34,3	0,5	36,8	1,10	$\text{mg/l}$	107%
Magnesium	12,0	0,1	12,4	0,371	$\text{mg/l}$	103%
Sodium	20,4	0,1	21,2	0,637	$\text{mg/l}$	104%
Potassium	4,09	0,04	3,96	0,119	$\text{mg/l}$	97%
Nitrate	33,5	0,6	32,7	2,29	$\text{mg/l}$	98%
Nitrite	0,0240	0,0005	0,0172	0,00060	$\text{mg/l}$	72%
Ammonium	<0,01		<0,05	0	$\text{mg/l}$	•
Chloride	39,4	0,7	39,8	4,90	$\text{mg/l}$	101%
Sulphate	32,0	0,4	30,4	2,61	$\text{mg/l}$	95%
Orthophosphate	0,072	0,002	0,0306	0,00306	$\text{mg/l}$	43%
Boron	0,126	0,001	0,136	0,00408	$\text{mg/l}$	108%
DOC	4,28	0,05			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,201	0,003			$\text{mg/l}$	
Cyanide	0,0283	0,0016			$\text{mg/l}$	



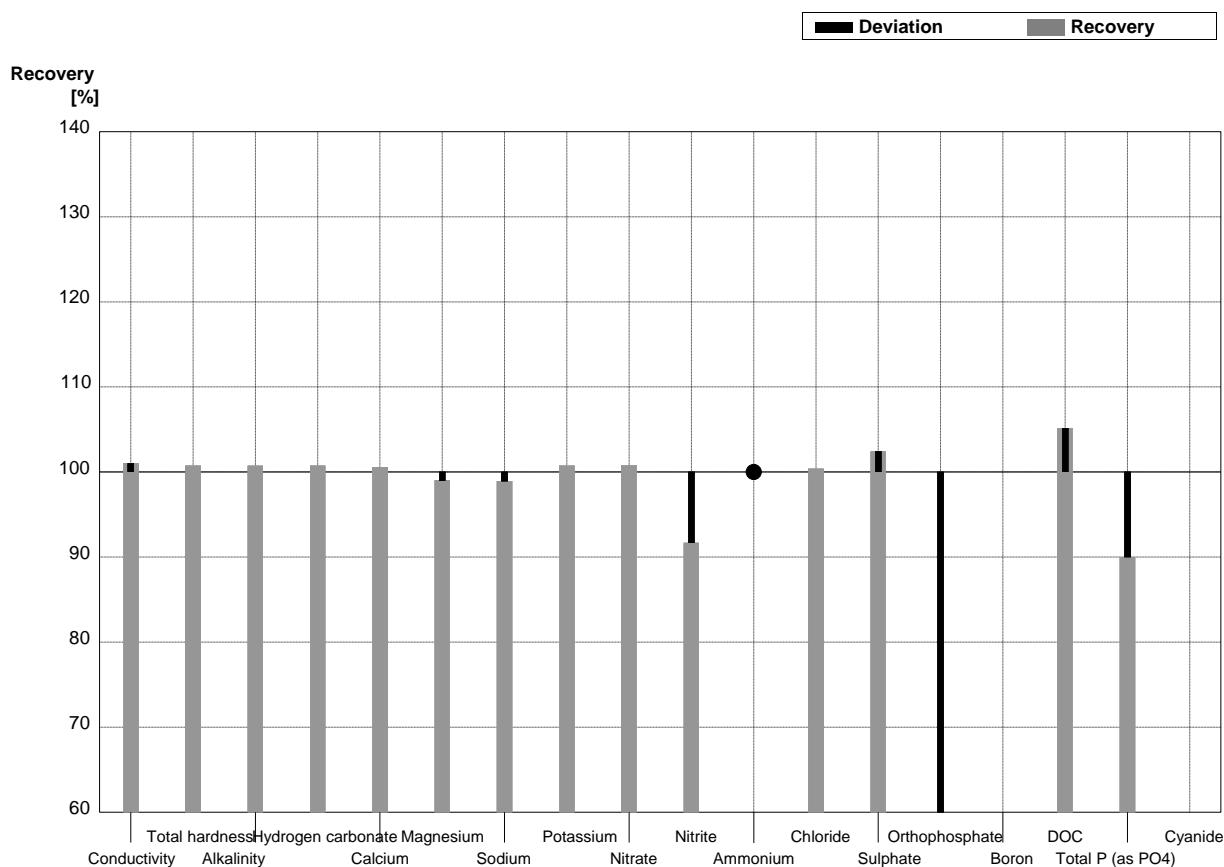
**Sample N153A**  
**Laboratory Q**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	730	18	µS/cm	101%
Total hardness	2,80	0,03	2,80	0,02	mmol/l	100%
Alkalinity	2,99	0,03	2,97	0,01	mmol/l	99%
Hydrogen carbonate	179	2	177,5		mg/l	99%
Calcium	79,5	1,0	79,46	1,27	mg/l	100%
Magnesium	19,9	0,2	19,56	0,37	mg/l	98%
Sodium	29,2	0,4	28,87	0,58	mg/l	99%
Potassium	7,04	0,07	7,02	0,41	mg/l	100%
Nitrate	69,0	1,5	66,57	2,33	mg/l	96%
Nitrite	0,075	0,001	0,070	0,01	mg/l	93%
Ammonium	0,108	0,007	0,078	0,00	mg/l	72%
Chloride	66,1	1,2	68,90	2,27	mg/l	104%
Sulphate	53,4	0,6	54,54	2,4	mg/l	102%
Orthophosphate	<0,009		<0,003	0	mg/l	•
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04	3,30	0,5	mg/l	109%
Total P (as PO4)	<0,009		0,0060	0	mg/l	•
Cyanide	0,064	0,002			mg/l	



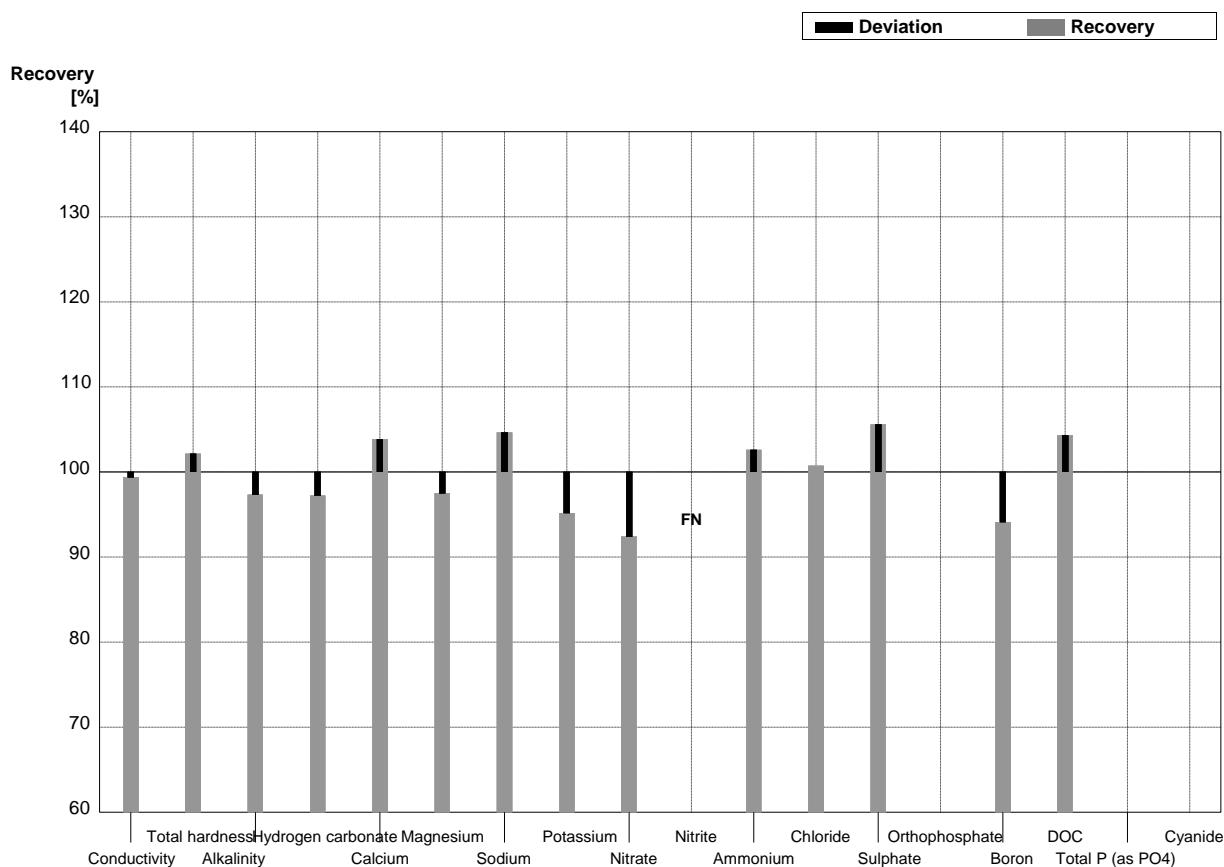
**Sample N153B**  
**Laboratory Q**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	399	9,98	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01	1,36	0,02	$\text{mmol/l}$	101%
Alkalinity	1,38	0,01	1,39	0,01	$\text{mmol/l}$	101%
Hydrogen carbonate	81,0	0,5	81,6		$\text{mg/l}$	101%
Calcium	34,3	0,5	34,5	0,55	$\text{mg/l}$	101%
Magnesium	12,0	0,1	11,88	0,23	$\text{mg/l}$	99%
Sodium	20,4	0,1	20,18	0,4	$\text{mg/l}$	99%
Potassium	4,09	0,04	4,12	0,25	$\text{mg/l}$	101%
Nitrate	33,5	0,6	33,77	1,18	$\text{mg/l}$	101%
Nitrite	0,0240	0,0005	0,0220	0	$\text{mg/l}$	92%
Ammonium	<0,01		<0,005	0	$\text{mg/l}$	•
Chloride	39,4	0,7	39,55	1,31	$\text{mg/l}$	100%
Sulphate	32,0	0,4	32,77	1,44	$\text{mg/l}$	102%
Orthophosphate	0,072	0,002	0,0220	0	$\text{mg/l}$	31%
Boron	0,126	0,001			$\text{mg/l}$	
DOC	4,28	0,05	4,50	0,68	$\text{mg/l}$	105%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,1809	0,03	$\text{mg/l}$	90%
Cyanide	0,0283	0,0016			$\text{mg/l}$	



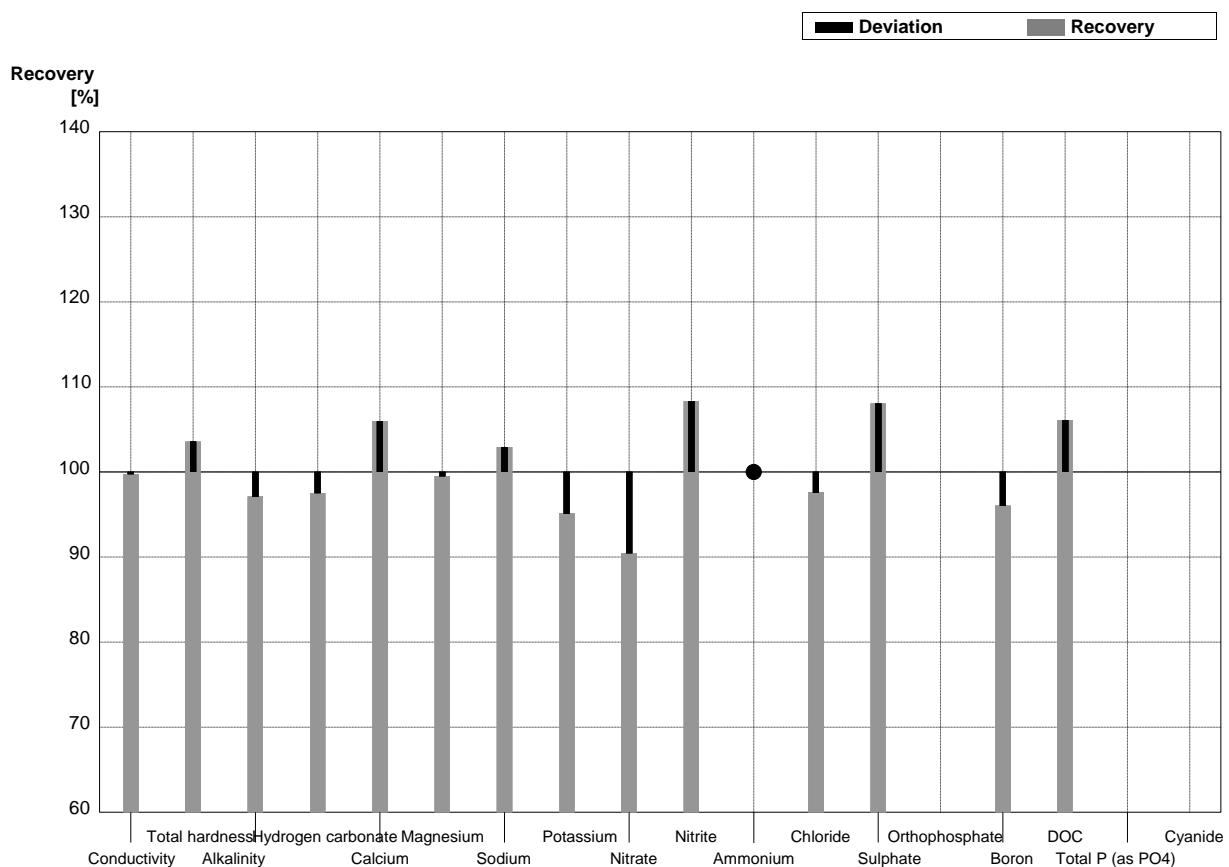
**Sample N153A**  
**Laboratory R**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	716,5	10	µS/cm	99%
Total hardness	2,80	0,03	2,86	0,15	mmol/l	102%
Alkalinity	2,99	0,03	2,91	0,1	mmol/l	97%
Hydrogen carbonate	179	2	174	3	mg/l	97%
Calcium	79,5	1,0	82,55	4,2	mg/l	104%
Magnesium	19,9	0,2	19,4	1	mg/l	97%
Sodium	29,2	0,4	30,55	1,6	mg/l	105%
Potassium	7,04	0,07	6,7	0,4	mg/l	95%
Nitrate	69,0	1,5	63,75	3	mg/l	92%
Nitrite	0,075	0,001	<0,0018		mg/l	FN
Ammonium	0,108	0,007	0,1108	0,001	mg/l	103%
Chloride	66,1	1,2	66,58	3,4	mg/l	101%
Sulphate	53,4	0,6	56,37	3	mg/l	106%
Orthophosphate	<0,009				mg/l	
Boron	0,056	0,001	0,0527	0,0003	mg/l	94%
DOC	3,04	0,04	3,17	0,07	mg/l	104%
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,064	0,002			mg/l	



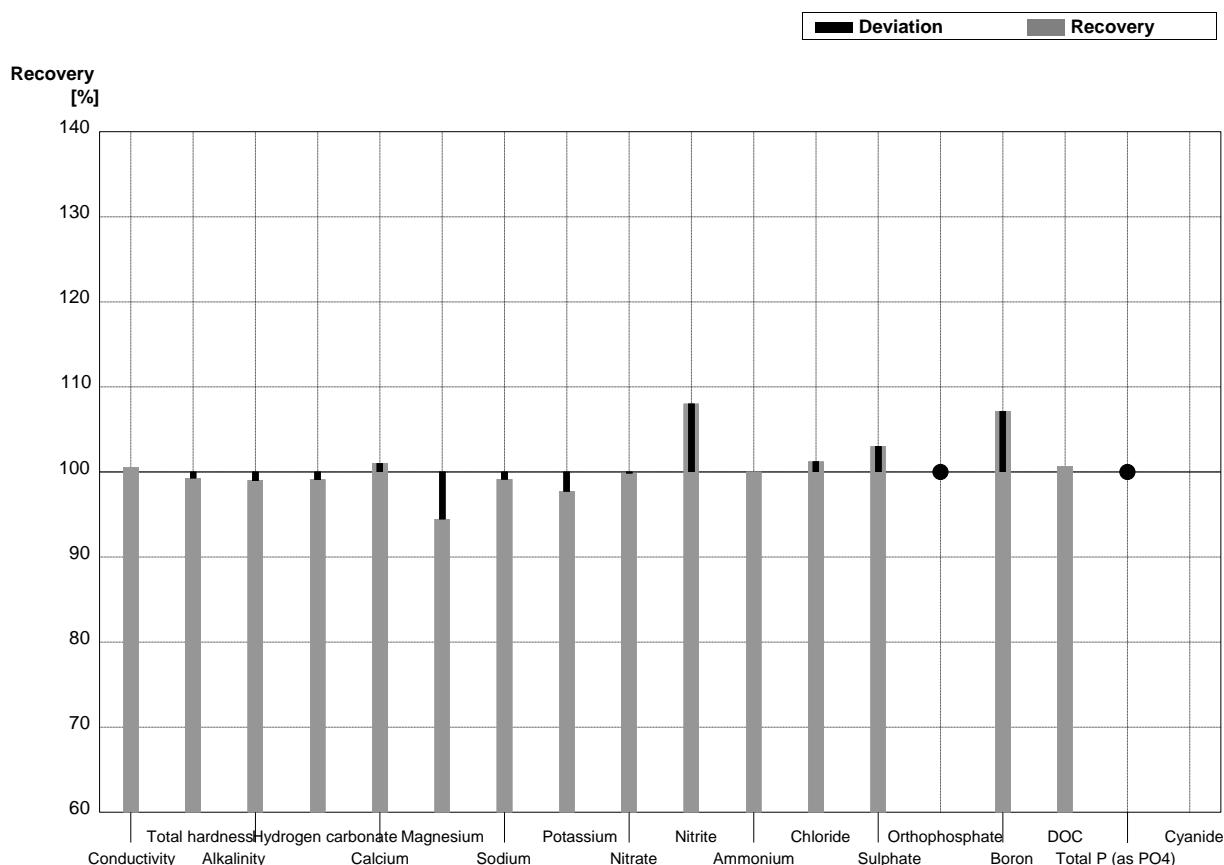
**Sample N153B**  
**Laboratory R**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	394	10	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,35	0,01	1,398	0,07	$\text{mmol/l}$	104%
Alkalinity	1,38	0,01	1,34	0,1	$\text{mmol/l}$	97%
Hydrogen carbonate	81,0	0,5	79	3	$\text{mg/l}$	98%
Calcium	34,3	0,5	36,34	1,9	$\text{mg/l}$	106%
Magnesium	12,0	0,1	11,94	0,6	$\text{mg/l}$	100%
Sodium	20,4	0,1	21,0	1,1	$\text{mg/l}$	103%
Potassium	4,09	0,04	3,89	0,24	$\text{mg/l}$	95%
Nitrate	33,5	0,6	30,3	1,6	$\text{mg/l}$	90%
Nitrite	0,0240	0,0005	0,0260	0,004	$\text{mg/l}$	108%
Ammonium	<0,01		<0,04		$\text{mg/l}$	•
Chloride	39,4	0,7	38,45	2	$\text{mg/l}$	98%
Sulphate	32,0	0,4	34,57	1,9	$\text{mg/l}$	108%
Orthophosphate	0,072	0,002			$\text{mg/l}$	
Boron	0,126	0,001	0,121	0,0014	$\text{mg/l}$	96%
DOC	4,28	0,05	4,54	0,07	$\text{mg/l}$	106%
Total P (as PO <sub>4</sub> )	0,201	0,003			$\text{mg/l}$	
Cyanide	0,0283	0,0016			$\text{mg/l}$	



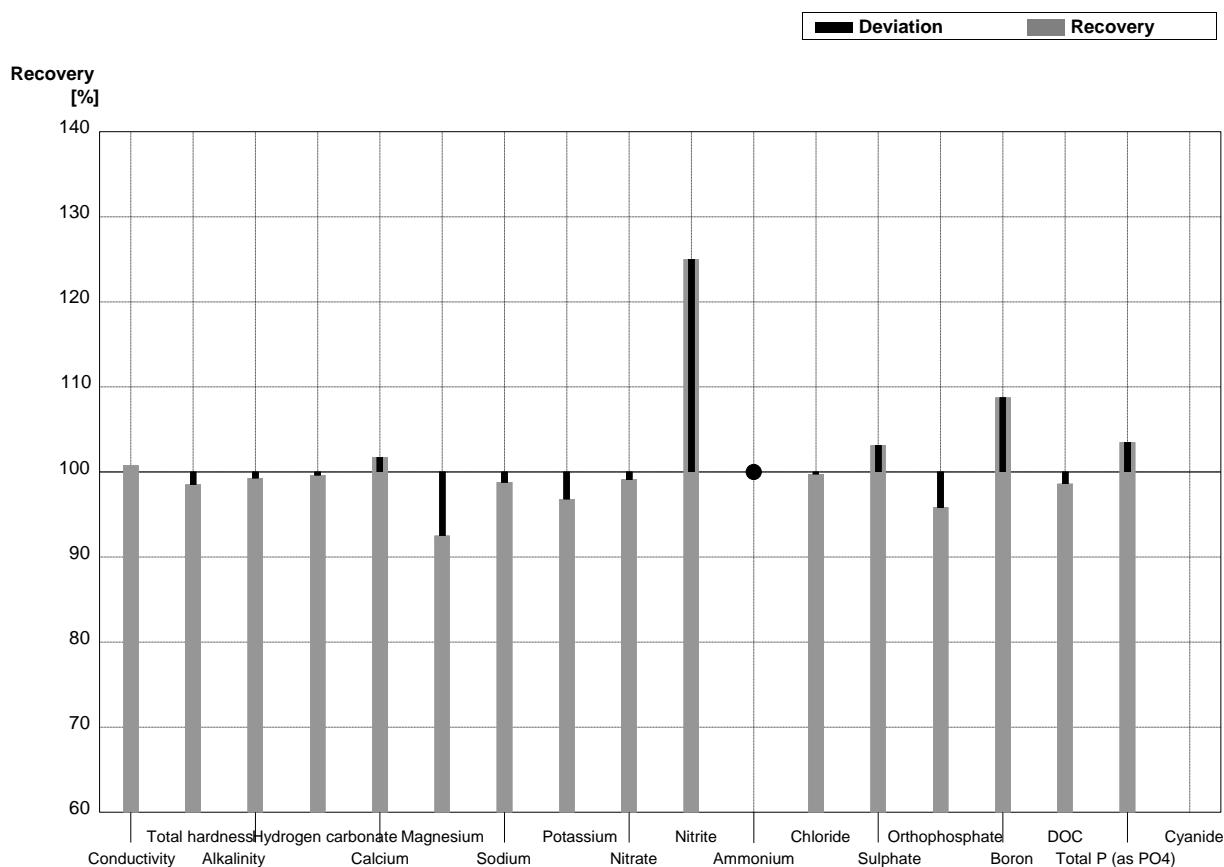
**Sample N153A**  
**Laboratory S**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	725	15	µS/cm	101%
Total hardness	2,80	0,03	2,78	0,11	mmol/l	99%
Alkalinity	2,99	0,03	2,96	0,15	mmol/l	99%
Hydrogen carbonate	179	2	177,4	8,9	mg/l	99%
Calcium	79,5	1,0	80,3	3,2	mg/l	101%
Magnesium	19,9	0,2	18,8	0,9	mg/l	94%
Sodium	29,2	0,4	28,95	1,45	mg/l	99%
Potassium	7,04	0,07	6,88	0,34	mg/l	98%
Nitrate	69,0	1,5	68,9	2,1	mg/l	100%
Nitrite	0,075	0,001	0,081	0,008	mg/l	108%
Ammonium	0,108	0,007	0,108	0,011	mg/l	100%
Chloride	66,1	1,2	66,9	2,0	mg/l	101%
Sulphate	53,4	0,6	55,0	1,7	mg/l	103%
Orthophosphate	<0,009		<0,020		mg/l	•
Boron	0,056	0,001	0,060	0,006	mg/l	107%
DOC	3,04	0,04	3,06	0,31	mg/l	101%
Total P (as PO4)	<0,009		<0,031		mg/l	•
Cyanide	0,064	0,002			mg/l	



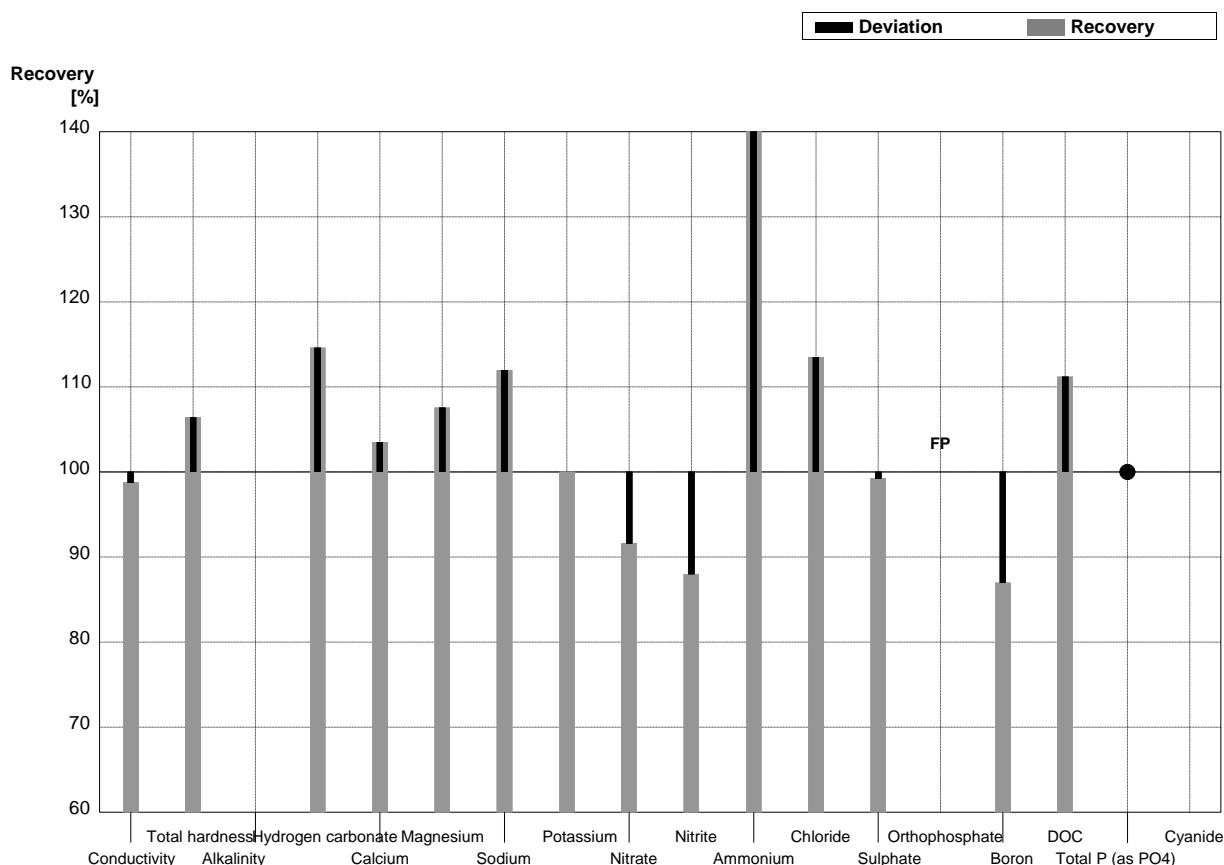
**Sample N153B**  
**Laboratory S**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	398	8	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01	1,33	0,05	$\text{mmol/l}$	99%
Alkalinity	1,38	0,01	1,37	0,07	$\text{mmol/l}$	99%
Hydrogen carbonate	81,0	0,5	80,7	4,0	$\text{mg/l}$	100%
Calcium	34,3	0,5	34,9	1,4	$\text{mg/l}$	102%
Magnesium	12,0	0,1	11,1	0,6	$\text{mg/l}$	93%
Sodium	20,4	0,1	20,15	1,01	$\text{mg/l}$	99%
Potassium	4,09	0,04	3,96	0,20	$\text{mg/l}$	97%
Nitrate	33,5	0,6	33,2	1,0	$\text{mg/l}$	99%
Nitrite	0,0240	0,0005	0,0300	0,003	$\text{mg/l}$	125%
Ammonium	<0,01		<0,030		$\text{mg/l}$	•
Chloride	39,4	0,7	39,3	1,2	$\text{mg/l}$	100%
Sulphate	32,0	0,4	33,0	1,0	$\text{mg/l}$	103%
Orthophosphate	0,072	0,002	0,069	0,007	$\text{mg/l}$	96%
Boron	0,126	0,001	0,137	0,014	$\text{mg/l}$	109%
DOC	4,28	0,05	4,22	0,42	$\text{mg/l}$	99%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,208	0,031	$\text{mg/l}$	103%
Cyanide	0,0283	0,0016			$\text{mg/l}$	



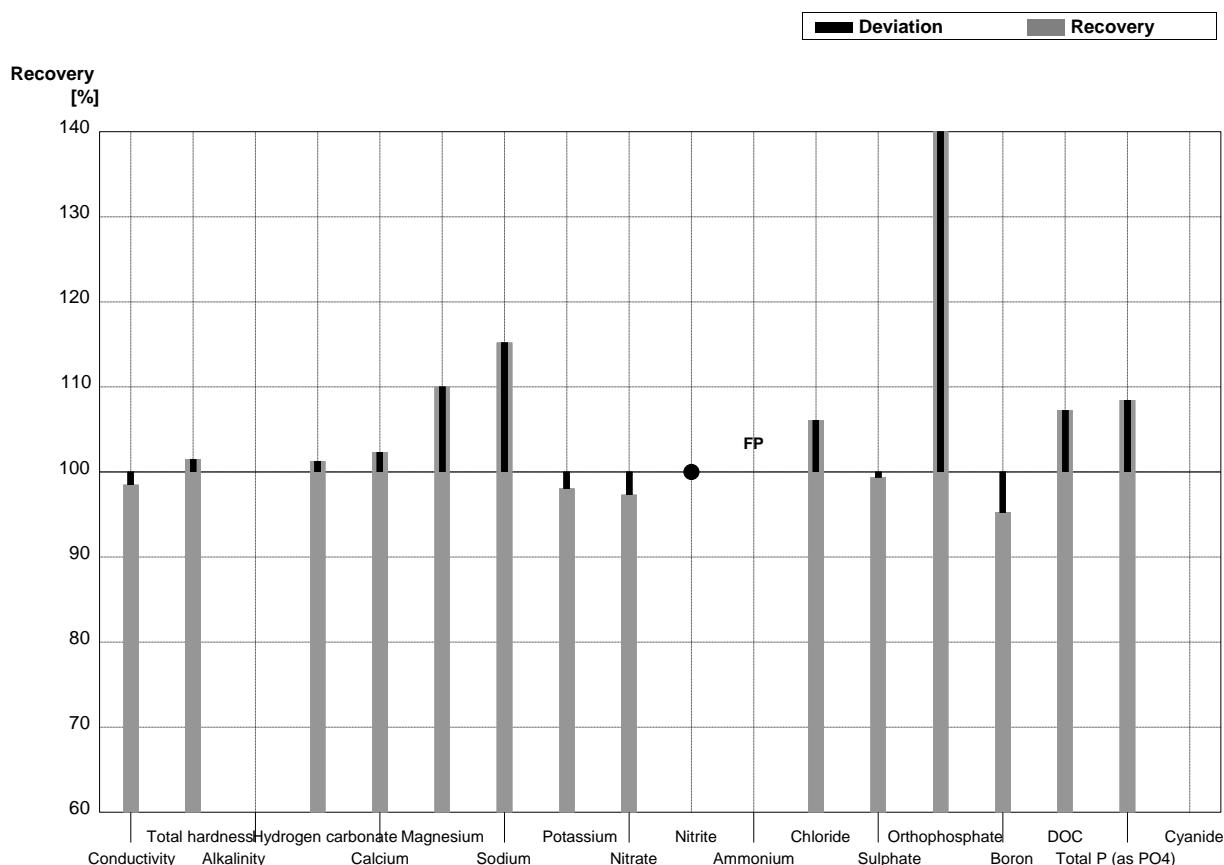
**Sample N153A**  
**Laboratory T**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	712	22	$\mu\text{S}/\text{cm}$	99%
Total hardness	2,80	0,03	2,98	0,05	$\text{mmol/l}$	106%
Alkalinity	2,99	0,03			$\text{mmol/l}$	
Hydrogen carbonate	179	2	205,1	3,8	$\text{mg/l}$	115%
Calcium	79,5	1,0	82,3	0,8	$\text{mg/l}$	104%
Magnesium	19,9	0,2	21,4	0,3	$\text{mg/l}$	108%
Sodium	29,2	0,4	32,7	0,6	$\text{mg/l}$	112%
Potassium	7,04	0,07	7,04	0,12	$\text{mg/l}$	100%
Nitrate	69,0	1,5	63,2	0,5	$\text{mg/l}$	92%
Nitrite	0,075	0,001	0,066	0,007	$\text{mg/l}$	88%
Ammonium	0,108	0,007	0,170	0,061	$\text{mg/l}$	157%
Chloride	66,1	1,2	75,0	0,7	$\text{mg/l}$	113%
Sulphate	53,4	0,6	53,0	0,4	$\text{mg/l}$	99%
Orthophosphate	<0,009		0,190	0,023	$\text{mg/l}$	FP
Boron	0,056	0,001	0,0487	0,0005	$\text{mg/l}$	87%
DOC	3,04	0,04	3,38	0,05	$\text{mg/l}$	111%
Total P (as PO <sub>4</sub> )	<0,009		<0,031		$\text{mg/l}$	•
Cyanide	0,064	0,002			$\text{mg/l}$	



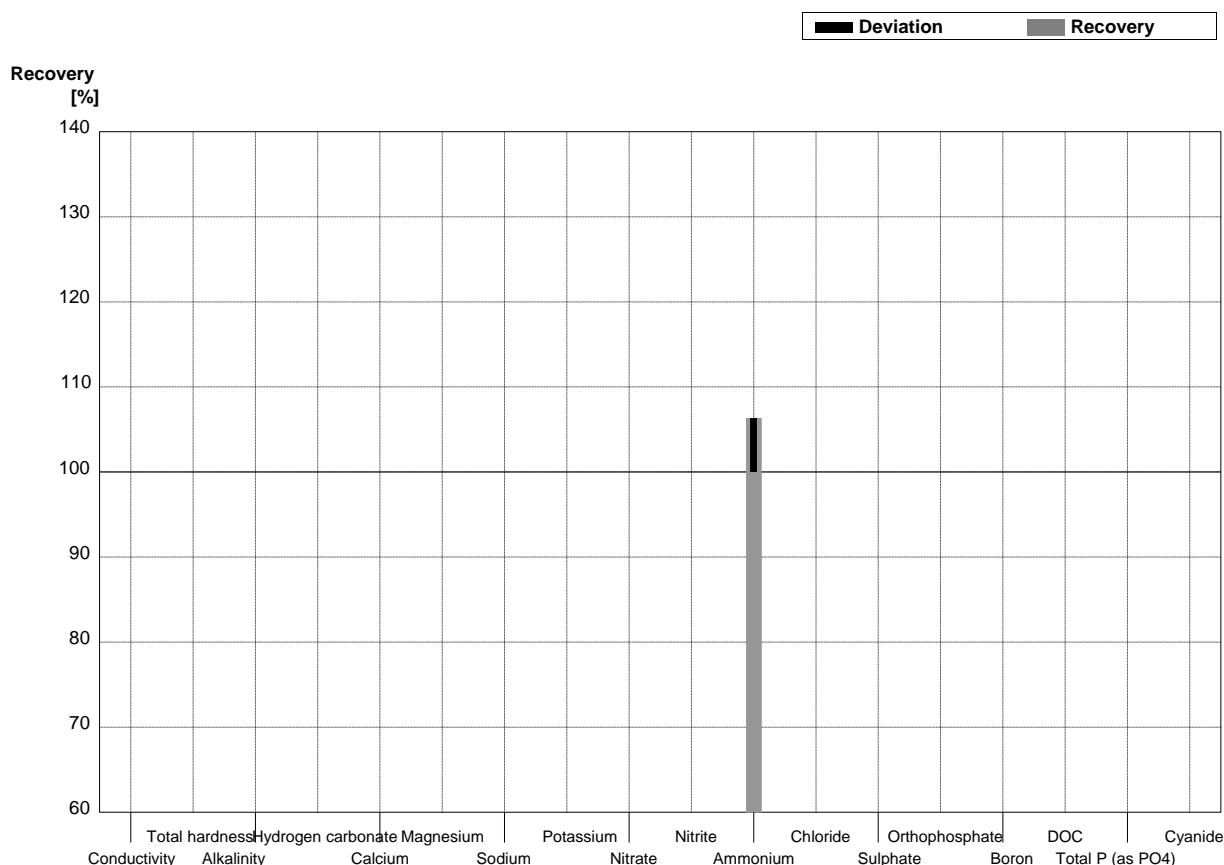
**Sample N153B**  
**Laboratory T**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	389	22	$\mu\text{S}/\text{cm}$	98%
Total hardness	1,35	0,01	1,37	0,15	$\text{mmol/l}$	101%
Alkalinity	1,38	0,01			$\text{mmol/l}$	
Hydrogen carbonate	81,0	0,5	82,0	7,0	$\text{mg/l}$	101%
Calcium	34,3	0,5	35,1	0,2	$\text{mg/l}$	102%
Magnesium	12,0	0,1	13,2	0,04	$\text{mg/l}$	110%
Sodium	20,4	0,1	23,5	0,5	$\text{mg/l}$	115%
Potassium	4,09	0,04	4,01	0,09	$\text{mg/l}$	98%
Nitrate	33,5	0,6	32,6	0,8	$\text{mg/l}$	97%
Nitrite	0,0240	0,0005	<0,050		$\text{mg/l}$	•
Ammonium	<0,01		0,136	0,005	$\text{mg/l}$	FP
Chloride	39,4	0,7	41,8	1,2	$\text{mg/l}$	106%
Sulphate	32,0	0,4	31,8	0,8	$\text{mg/l}$	99%
Orthophosphate	0,072	0,002	0,337	0,043	$\text{mg/l}$	468%
Boron	0,126	0,001	0,1200	0,0005	$\text{mg/l}$	95%
DOC	4,28	0,05	4,59	0,06	$\text{mg/l}$	107%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,218	0,013	$\text{mg/l}$	108%
Cyanide	0,0283	0,0016			$\text{mg/l}$	



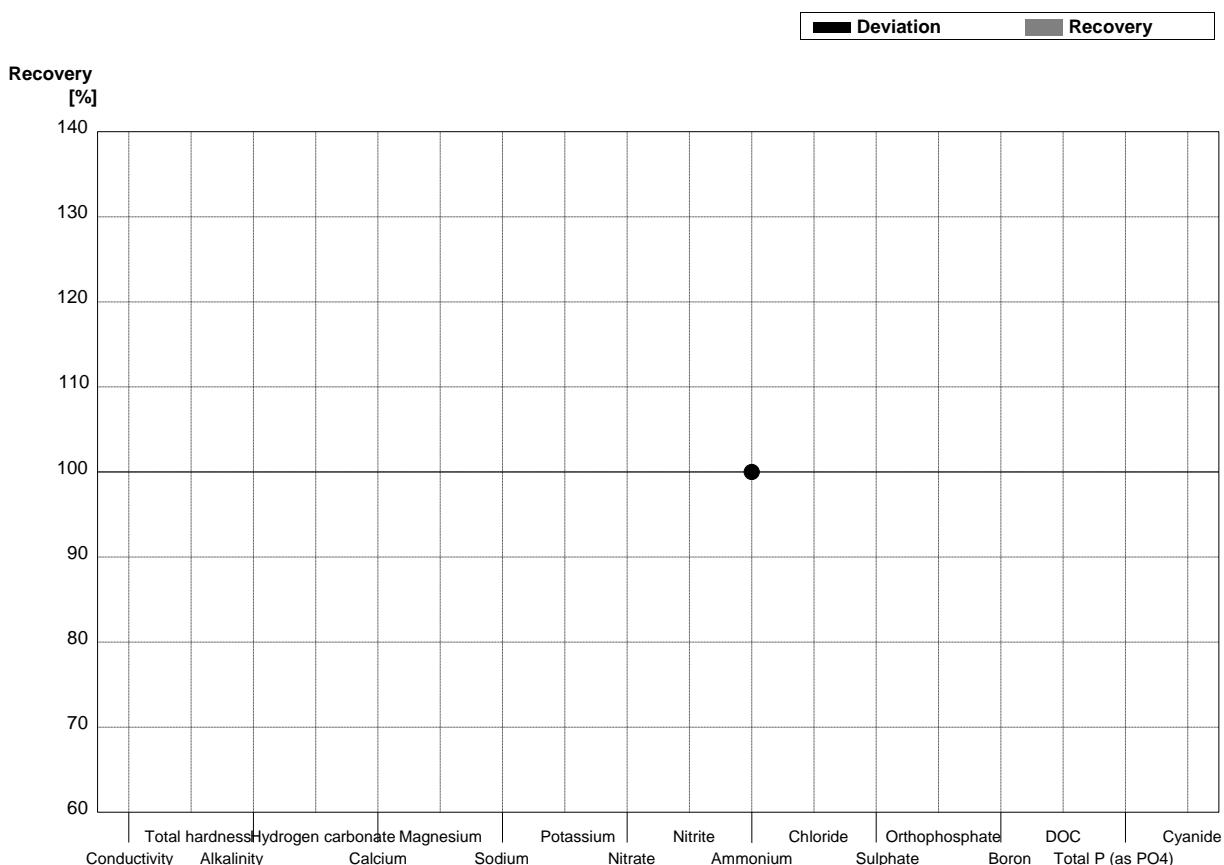
**Sample N153A**  
**Laboratory U**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2			µS/cm	
Total hardness	2,80	0,03			mmol/l	
Alkalinity	2,99	0,03			mmol/l	
Hydrogen carbonate	179	2			mg/l	
Calcium	79,5	1,0			mg/l	
Magnesium	19,9	0,2			mg/l	
Sodium	29,2	0,4			mg/l	
Potassium	7,04	0,07			mg/l	
Nitrate	69,0	1,5			mg/l	
Nitrite	0,075	0,001			mg/l	
Ammonium	0,108	0,007	0,1148		mg/l	106%
Chloride	66,1	1,2			mg/l	
Sulphate	53,4	0,6			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,064	0,002			mg/l	



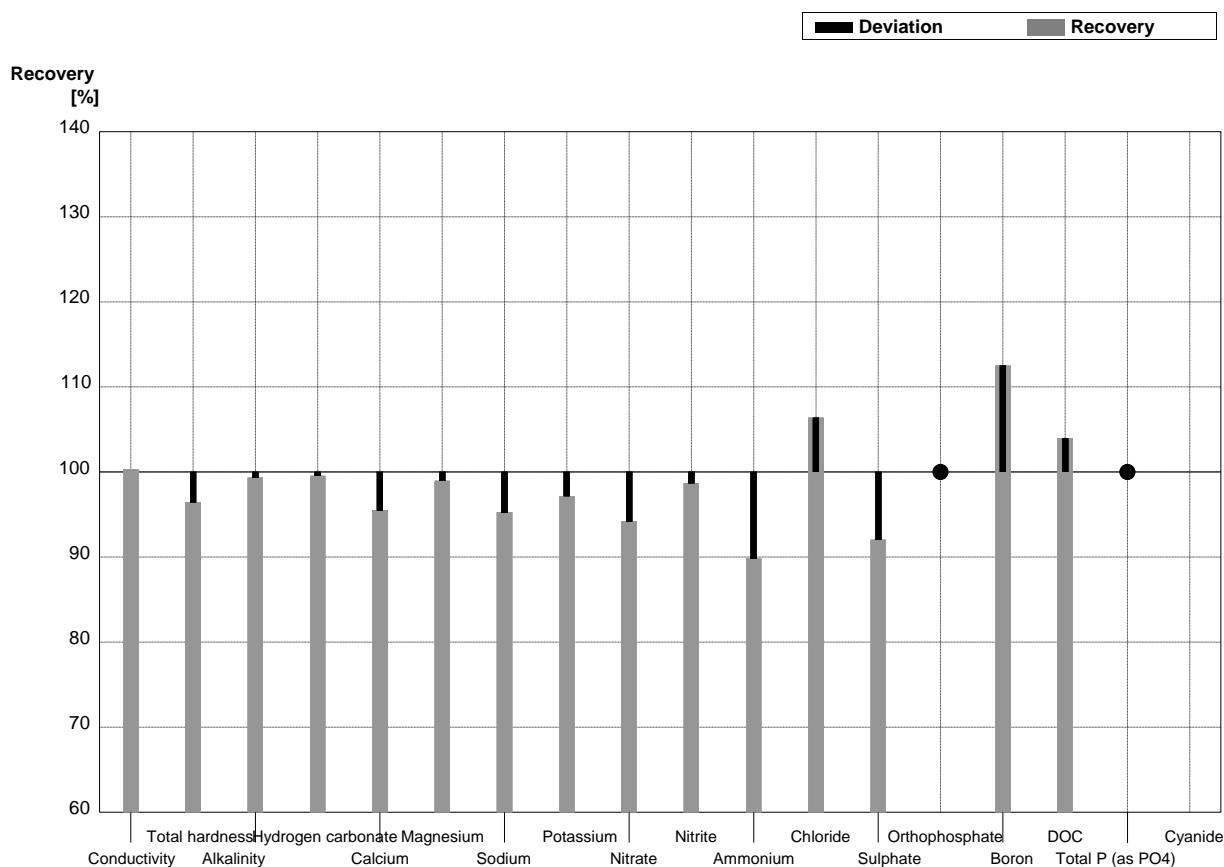
**Sample N153B**  
**Laboratory U**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	395	1			µS/cm	
Total hardness	1,35	0,01			mmol/l	
Alkalinity	1,38	0,01			mmol/l	
Hydrogen carbonate	81,0	0,5			mg/l	
Calcium	34,3	0,5			mg/l	
Magnesium	12,0	0,1			mg/l	
Sodium	20,4	0,1			mg/l	
Potassium	4,09	0,04			mg/l	
Nitrate	33,5	0,6			mg/l	
Nitrite	0,0240	0,0005			mg/l	
Ammonium	<0,01		<0,0200		mg/l	•
Chloride	39,4	0,7			mg/l	
Sulphate	32,0	0,4			mg/l	
Orthophosphate	0,072	0,002			mg/l	
Boron	0,126	0,001			mg/l	
DOC	4,28	0,05			mg/l	
Total P (as PO4)	0,201	0,003			mg/l	
Cyanide	0,0283	0,0016			mg/l	



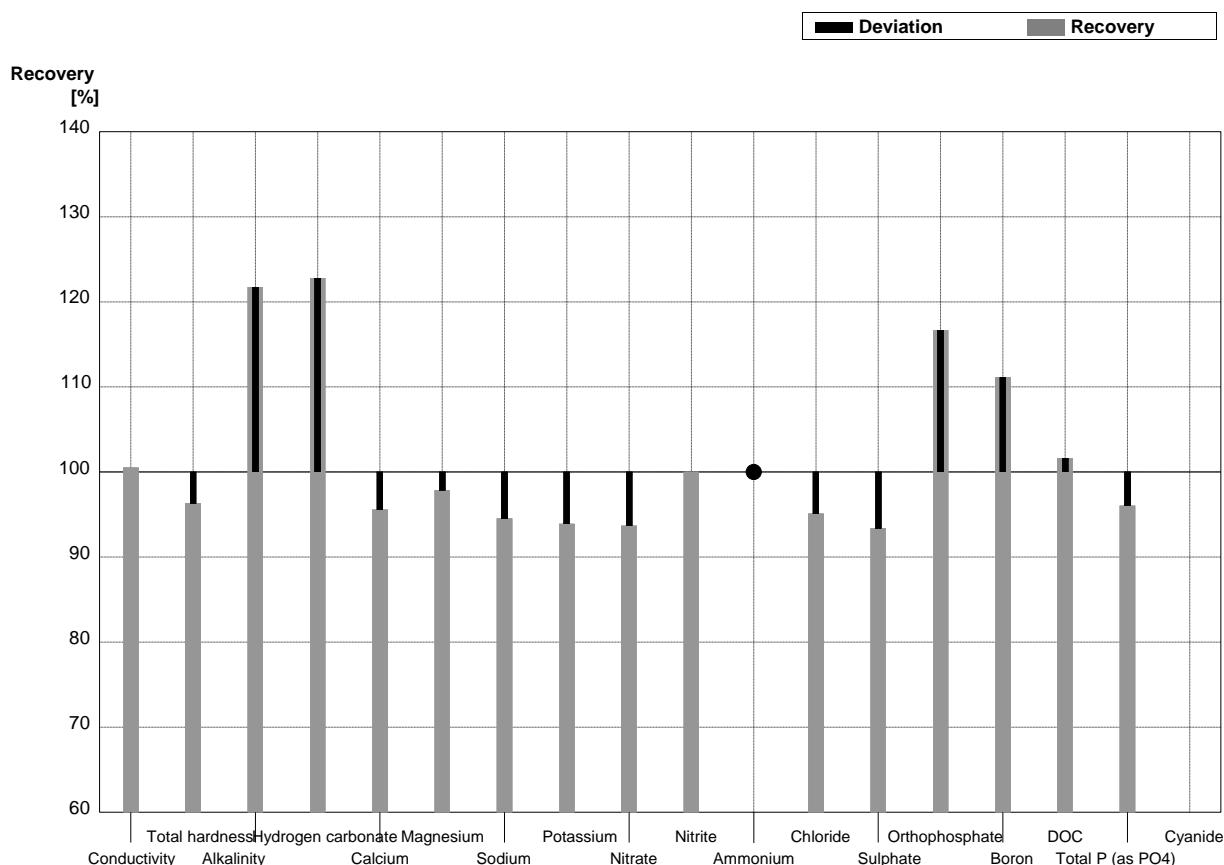
**Sample N153A**  
**Laboratory V**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	723	4,51	µS/cm	100%
Total hardness	2,80	0,03	2,70		mmol/l	96%
Alkalinity	2,99	0,03	2,97	0,29	mmol/l	99%
Hydrogen carbonate	179	2	178,15		mg/l	100%
Calcium	79,5	1,0	75,90	7,4	mg/l	95%
Magnesium	19,9	0,2	19,69	1,9	mg/l	99%
Sodium	29,2	0,4	27,81	2,8	mg/l	95%
Potassium	7,04	0,07	6,84	0,68	mg/l	97%
Nitrate	69,0	1,5	64,98	6,5	mg/l	94%
Nitrite	0,075	0,001	0,074	0,007	mg/l	99%
Ammonium	0,108	0,007	0,097	0,009	mg/l	90%
Chloride	66,1	1,2	70,31	7,0	mg/l	106%
Sulphate	53,4	0,6	49,14	4,8	mg/l	92%
Orthophosphate	<0,009		<0,0055		mg/l	•
Boron	0,056	0,001	0,063	0,006	mg/l	113%
DOC	3,04	0,04	3,16	0,32	mg/l	104%
Total P (as PO4)	<0,009		<0,0010		mg/l	•
Cyanide	0,064	0,002			mg/l	



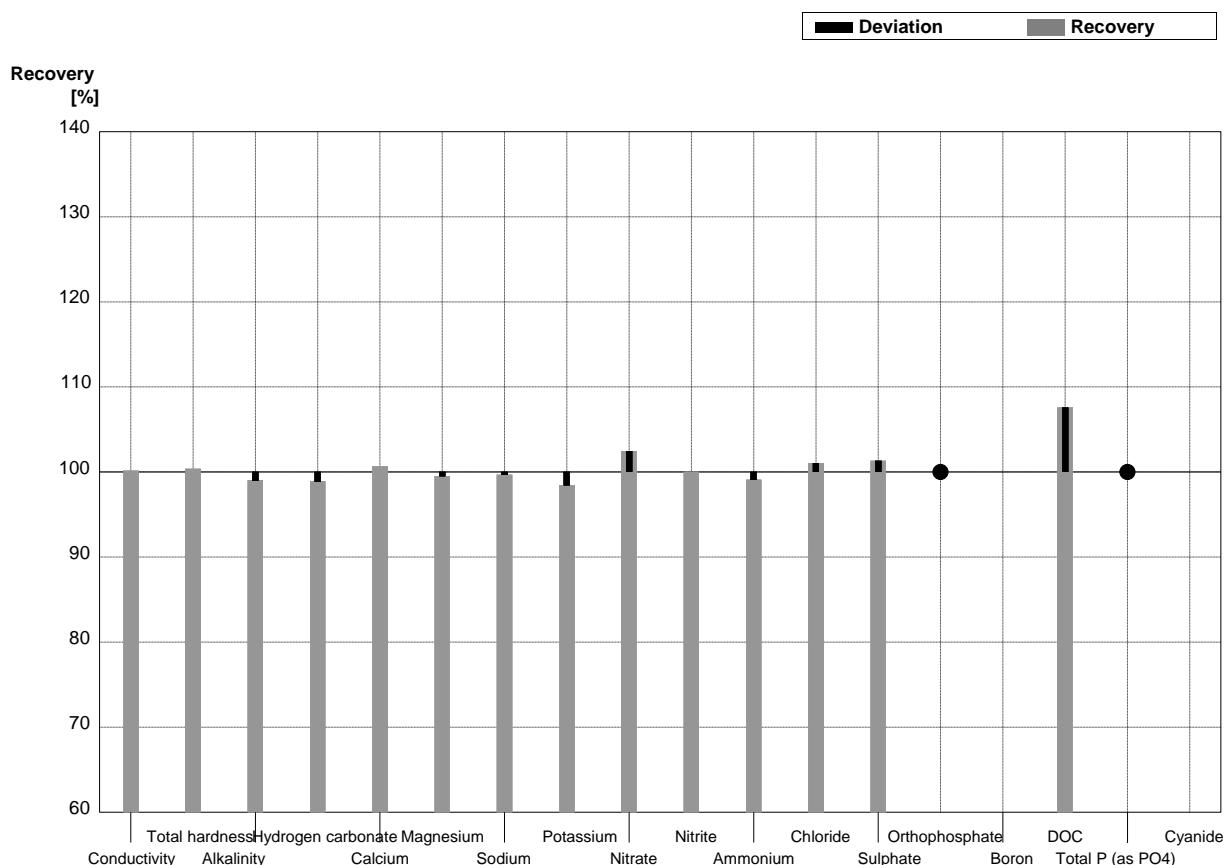
**Sample N153B**  
**Laboratory V**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	397	4,51	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01	1,30		$\text{mmol}/\text{l}$	96%
Alkalinity	1,38	0,01	1,68	0,29	$\text{mmol}/\text{l}$	122%
Hydrogen carbonate	81,0	0,5	99,45		$\text{mg}/\text{l}$	123%
Calcium	34,3	0,5	32,78	3,1	$\text{mg}/\text{l}$	96%
Magnesium	12,0	0,1	11,74	1,2	$\text{mg}/\text{l}$	98%
Sodium	20,4	0,1	19,28	1,9	$\text{mg}/\text{l}$	95%
Potassium	4,09	0,04	3,84	0,38	$\text{mg}/\text{l}$	94%
Nitrate	33,5	0,6	31,38	3,1	$\text{mg}/\text{l}$	94%
Nitrite	0,0240	0,0005	0,0240	0,0024	$\text{mg}/\text{l}$	100%
Ammonium	<0,01		<0,0090		$\text{mg}/\text{l}$	•
Chloride	39,4	0,7	37,47	3,5	$\text{mg}/\text{l}$	95%
Sulphate	32,0	0,4	29,88	2,9	$\text{mg}/\text{l}$	93%
Orthophosphate	0,072	0,002	0,084	0,008	$\text{mg}/\text{l}$	117%
Boron	0,126	0,001	0,140	0,014	$\text{mg}/\text{l}$	111%
DOC	4,28	0,05	4,35	0,44	$\text{mg}/\text{l}$	102%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,193	0,019	$\text{mg}/\text{l}$	96%
Cyanide	0,0283	0,0016			$\text{mg}/\text{l}$	



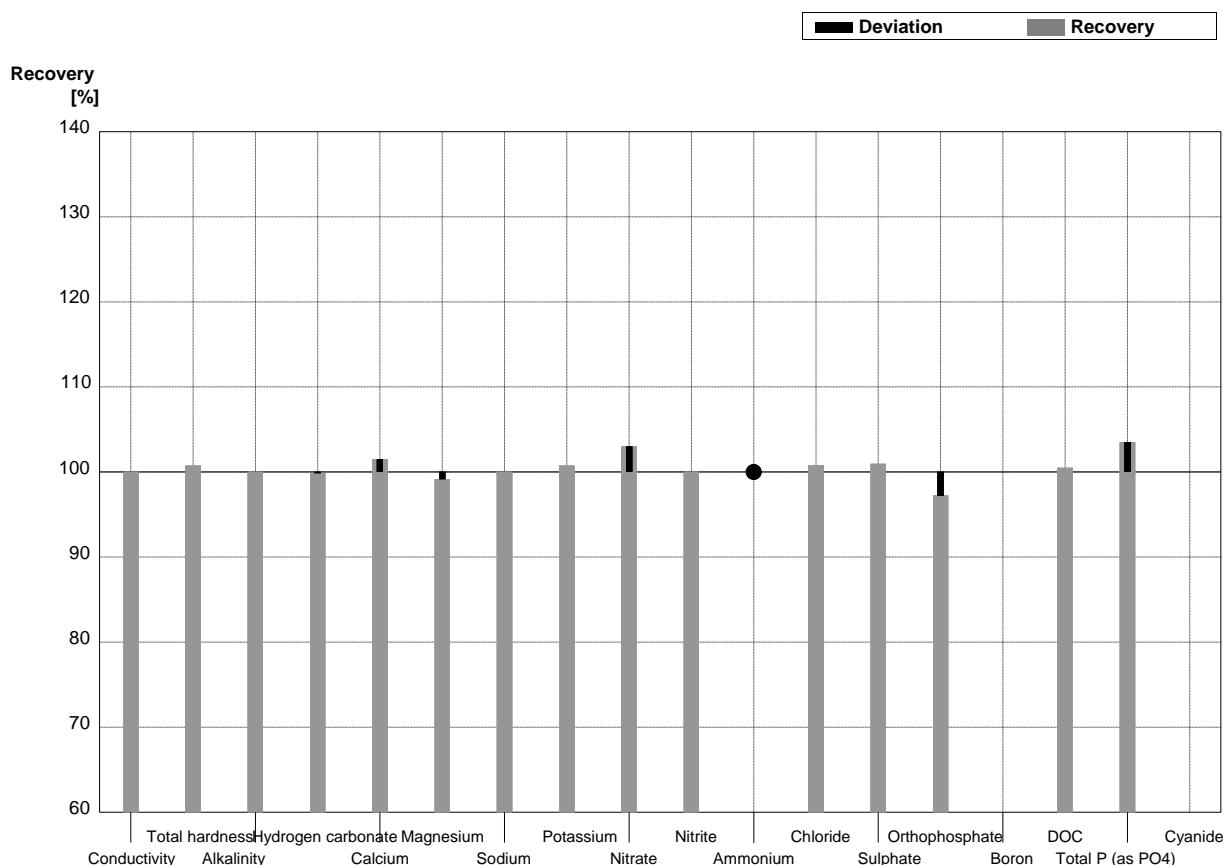
**Sample N153A**  
**Laboratory W**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	722	29	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,80	0,03	2,81	0,1	$\text{mmol/l}$	100%
Alkalinity	2,99	0,03	2,96	0,1	$\text{mmol/l}$	99%
Hydrogen carbonate	179	2	177	6	$\text{mg/l}$	99%
Calcium	79,5	1,0	80,0	7	$\text{mg/l}$	101%
Magnesium	19,9	0,2	19,8	2,4	$\text{mg/l}$	99%
Sodium	29,2	0,4	29,1	5	$\text{mg/l}$	100%
Potassium	7,04	0,07	6,93	1	$\text{mg/l}$	98%
Nitrate	69,0	1,5	70,7	6	$\text{mg/l}$	102%
Nitrite	0,075	0,001	0,075	0,006	$\text{mg/l}$	100%
Ammonium	0,108	0,007	0,107	0,02	$\text{mg/l}$	99%
Chloride	66,1	1,2	66,8	5	$\text{mg/l}$	101%
Sulphate	53,4	0,6	54,1	4	$\text{mg/l}$	101%
Orthophosphate	<0,009		<0,01		$\text{mg/l}$	•
Boron	0,056	0,001			$\text{mg/l}$	
DOC	3,04	0,04	3,27	0,5	$\text{mg/l}$	108%
Total P (as PO <sub>4</sub> )	<0,009		<0,013		$\text{mg/l}$	•
Cyanide	0,064	0,002			$\text{mg/l}$	



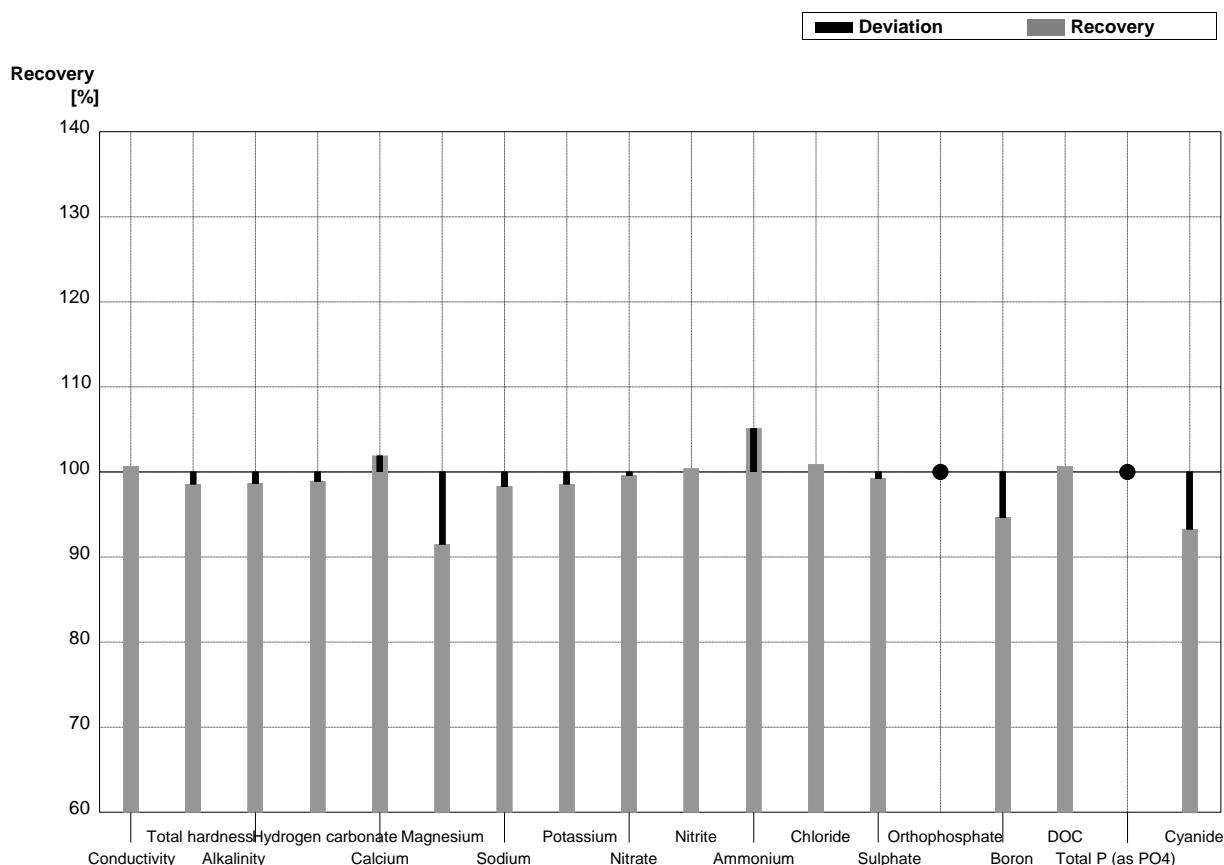
**Sample N153B**  
**Laboratory W**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	395	16	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,35	0,01	1,36	0,1	$\text{mmol/l}$	101%
Alkalinity	1,38	0,01	1,38	0,1	$\text{mmol/l}$	100%
Hydrogen carbonate	81,0	0,5	80,9	3	$\text{mg/l}$	100%
Calcium	34,3	0,5	34,8	3	$\text{mg/l}$	101%
Magnesium	12,0	0,1	11,9	1,5	$\text{mg/l}$	99%
Sodium	20,4	0,1	20,4	4	$\text{mg/l}$	100%
Potassium	4,09	0,04	4,12	0,6	$\text{mg/l}$	101%
Nitrate	33,5	0,6	34,5	3	$\text{mg/l}$	103%
Nitrite	0,0240	0,0005	0,0240	0,002	$\text{mg/l}$	100%
Ammonium	<0,01		<0,013		$\text{mg/l}$	•
Chloride	39,4	0,7	39,7	3	$\text{mg/l}$	101%
Sulphate	32,0	0,4	32,3	2	$\text{mg/l}$	101%
Orthophosphate	0,072	0,002	0,070	0,008	$\text{mg/l}$	97%
Boron	0,126	0,001			$\text{mg/l}$	
DOC	4,28	0,05	4,30	0,7	$\text{mg/l}$	100%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,208	0,03	$\text{mg/l}$	103%
Cyanide	0,0283	0,0016			$\text{mg/l}$	



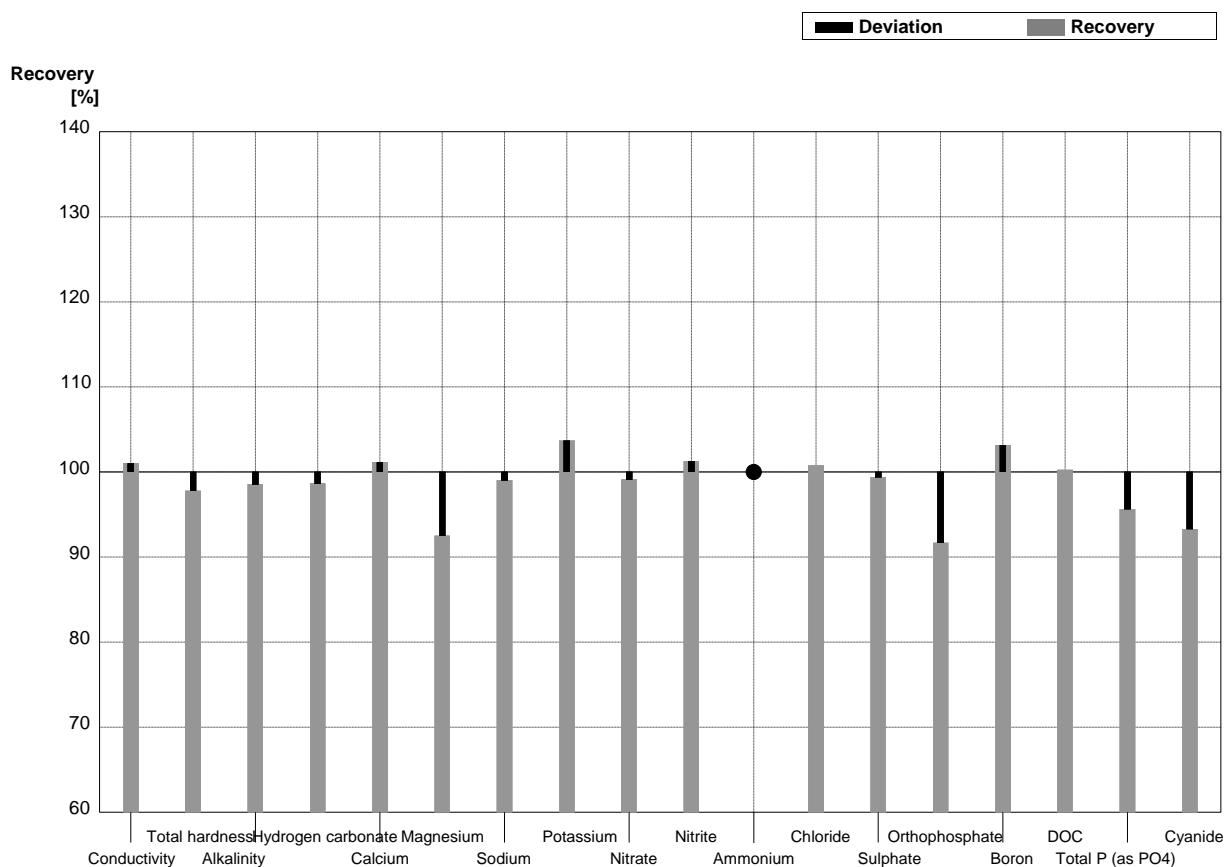
**Sample N153A**  
**Laboratory X**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	726	0,12	$\mu\text{S}/\text{cm}$	101%
Total hardness	2,80	0,03	2,76	0,035	$\text{mmol/l}$	99%
Alkalinity	2,99	0,03	2,95	0,11	$\text{mmol/l}$	99%
Hydrogen carbonate	179	2	177	3,53	$\text{mg/l}$	99%
Calcium	79,5	1,0	81,0	0,81	$\text{mg/l}$	102%
Magnesium	19,9	0,2	18,2	0,70	$\text{mg/l}$	91%
Sodium	29,2	0,4	28,7	0,19	$\text{mg/l}$	98%
Potassium	7,04	0,07	6,94	0,487	$\text{mg/l}$	99%
Nitrate	69,0	1,5	68,7	0,41	$\text{mg/l}$	100%
Nitrite	0,075	0,001	0,0753	0,0008	$\text{mg/l}$	100%
Ammonium	0,108	0,007	0,1135	0,0023	$\text{mg/l}$	105%
Chloride	66,1	1,2	66,7	0,46	$\text{mg/l}$	101%
Sulphate	53,4	0,6	53,0	0,34	$\text{mg/l}$	99%
Orthophosphate	<0,009		<0,015		$\text{mg/l}$	•
Boron	0,056	0,001	0,053	0,002	$\text{mg/l}$	95%
DOC	3,04	0,04	3,06	0,03	$\text{mg/l}$	101%
Total P (as PO <sub>4</sub> )	<0,009		[0,002]		$\text{mg/l}$	•
Cyanide	0,064	0,002	0,0597	0,00099	$\text{mg/l}$	93%



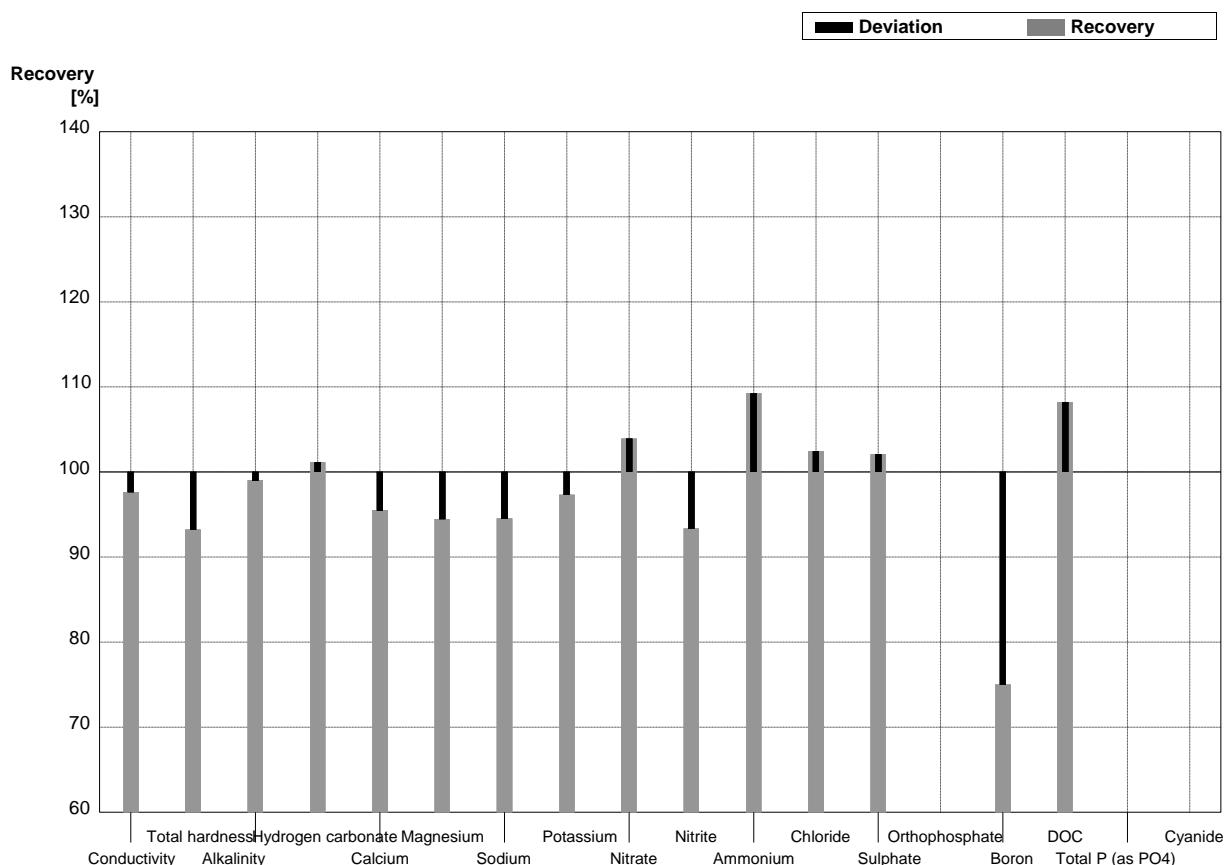
**Sample N153B**  
**Laboratory X**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	399	0,07	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01	1,32	0,037	$\text{mmol/l}$	98%
Alkalinity	1,38	0,01	1,36	0,08	$\text{mmol/l}$	99%
Hydrogen carbonate	81,0	0,5	79,9	1,6	$\text{mg/l}$	99%
Calcium	34,3	0,5	34,7	0,73	$\text{mg/l}$	101%
Magnesium	12,0	0,1	11,1	0,79	$\text{mg/l}$	93%
Sodium	20,4	0,1	20,2	0,17	$\text{mg/l}$	99%
Potassium	4,09	0,04	4,24	0,548	$\text{mg/l}$	104%
Nitrate	33,5	0,6	33,2	0,20	$\text{mg/l}$	99%
Nitrite	0,0240	0,0005	0,0243	0,0008	$\text{mg/l}$	101%
Ammonium	<0,01		[0,003]		$\text{mg/l}$	•
Chloride	39,4	0,7	39,7	0,25	$\text{mg/l}$	101%
Sulphate	32,0	0,4	31,8	0,17	$\text{mg/l}$	99%
Orthophosphate	0,072	0,002	0,066	0,0015	$\text{mg/l}$	92%
Boron	0,126	0,001	0,130	0,002	$\text{mg/l}$	103%
DOC	4,28	0,05	4,29	0,03	$\text{mg/l}$	100%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,1922	0,0018	$\text{mg/l}$	96%
Cyanide	0,0283	0,0016	0,0264	0,00103	$\text{mg/l}$	93%



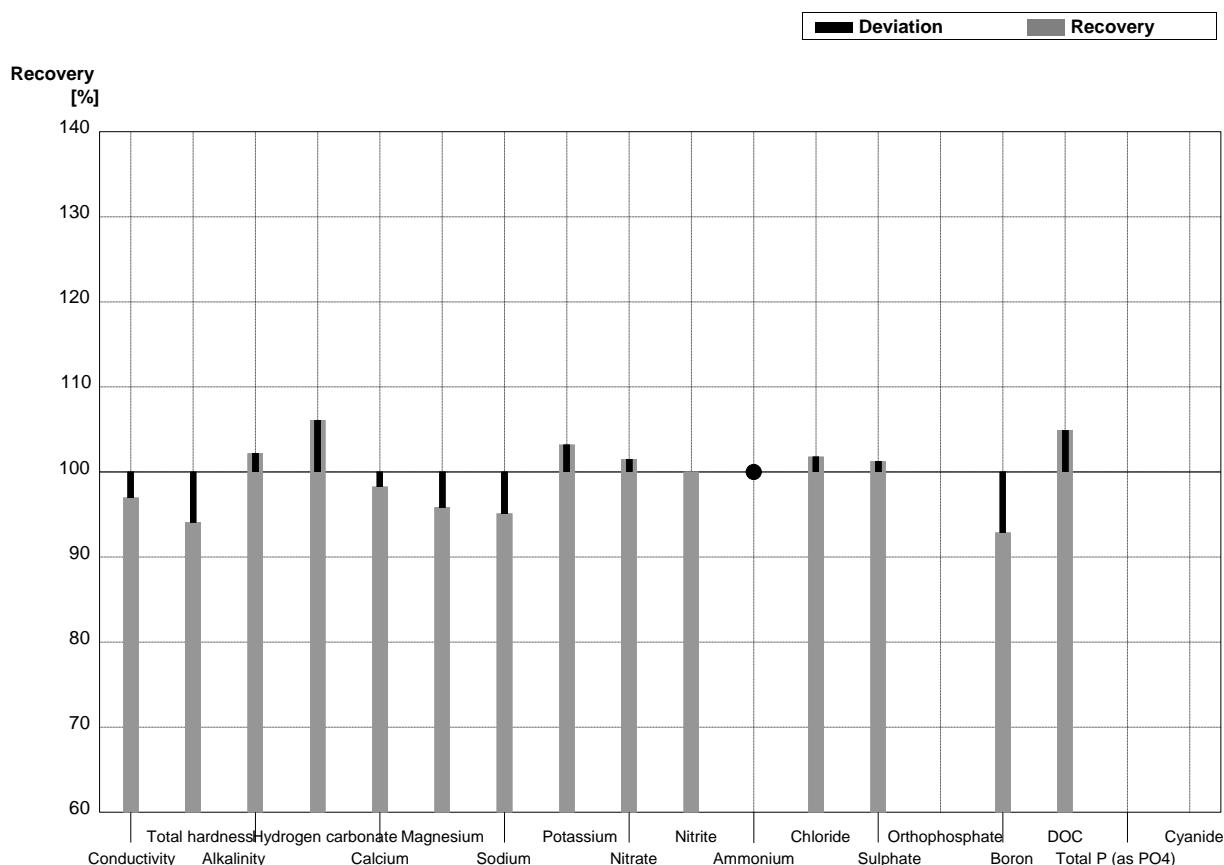
**Sample N153A**  
**Laboratory Y**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	704		µS/cm	98%
Total hardness	2,80	0,03	2,61		mmol/l	93%
Alkalinity	2,99	0,03	2,96		mmol/l	99%
Hydrogen carbonate	179	2	181		mg/l	101%
Calcium	79,5	1,0	75,9		mg/l	95%
Magnesium	19,9	0,2	18,8		mg/l	94%
Sodium	29,2	0,4	27,6		mg/l	95%
Potassium	7,04	0,07	6,85		mg/l	97%
Nitrate	69,0	1,5	71,7		mg/l	104%
Nitrite	0,075	0,001	0,070		mg/l	93%
Ammonium	0,108	0,007	0,118		mg/l	109%
Chloride	66,1	1,2	67,7		mg/l	102%
Sulphate	53,4	0,6	54,5		mg/l	102%
Orthophosphate	<0,009				mg/l	
Boron	0,056	0,001	0,0420		mg/l	75%
DOC	3,04	0,04	3,29		mg/l	108%
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,064	0,002			mg/l	



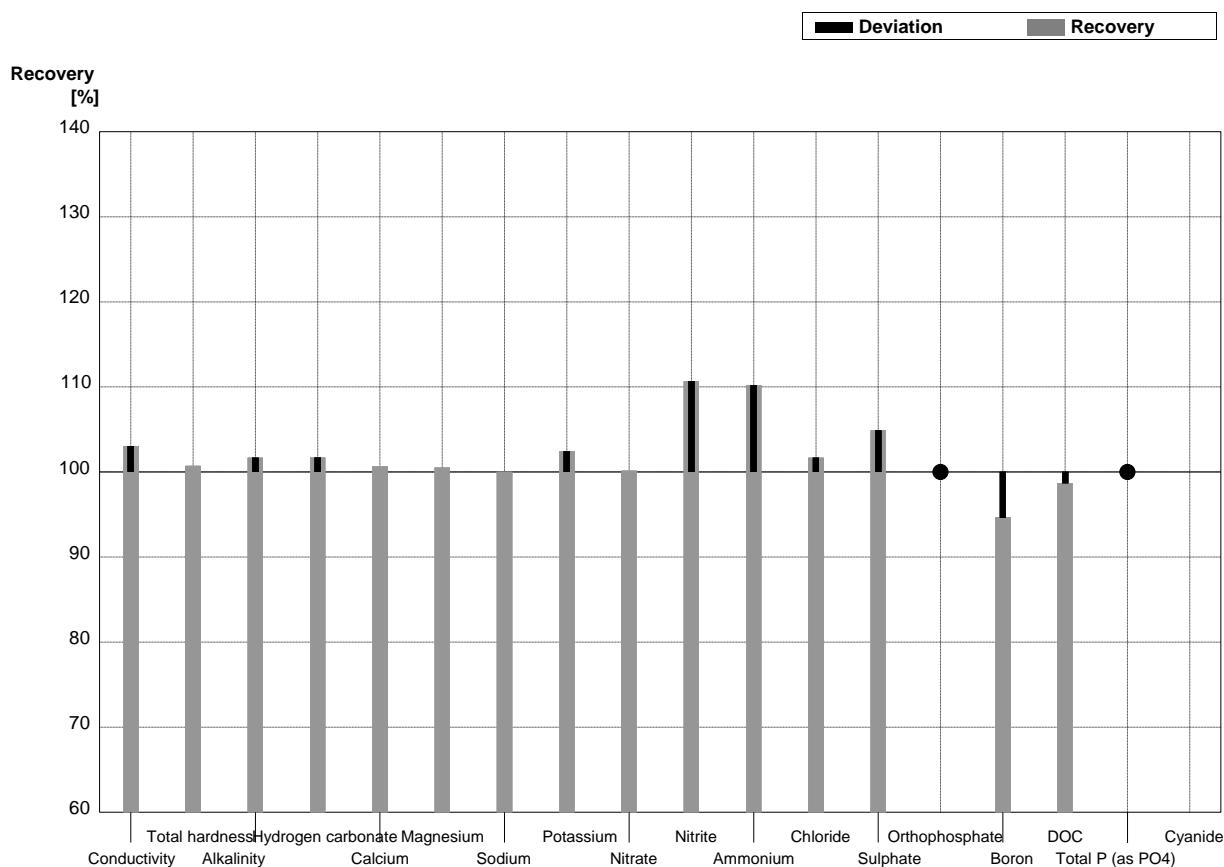
**Sample N153B**  
**Laboratory Y**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	383		$\mu\text{S}/\text{cm}$	97%
Total hardness	1,35	0,01	1,27		$\text{mmol/l}$	94%
Alkalinity	1,38	0,01	1,41		$\text{mmol/l}$	102%
Hydrogen carbonate	81,0	0,5	85,9		$\text{mg/l}$	106%
Calcium	34,3	0,5	33,7		$\text{mg/l}$	98%
Magnesium	12,0	0,1	11,5		$\text{mg/l}$	96%
Sodium	20,4	0,1	19,4		$\text{mg/l}$	95%
Potassium	4,09	0,04	4,22		$\text{mg/l}$	103%
Nitrate	33,5	0,6	34,0		$\text{mg/l}$	101%
Nitrite	0,0240	0,0005	0,0240		$\text{mg/l}$	100%
Ammonium	<0,01		<0,042		$\text{mg/l}$	•
Chloride	39,4	0,7	40,1		$\text{mg/l}$	102%
Sulphate	32,0	0,4	32,4		$\text{mg/l}$	101%
Orthophosphate	0,072	0,002			$\text{mg/l}$	
Boron	0,126	0,001	0,117		$\text{mg/l}$	93%
DOC	4,28	0,05	4,49		$\text{mg/l}$	105%
Total P (as PO <sub>4</sub> )	0,201	0,003			$\text{mg/l}$	
Cyanide	0,0283	0,0016			$\text{mg/l}$	



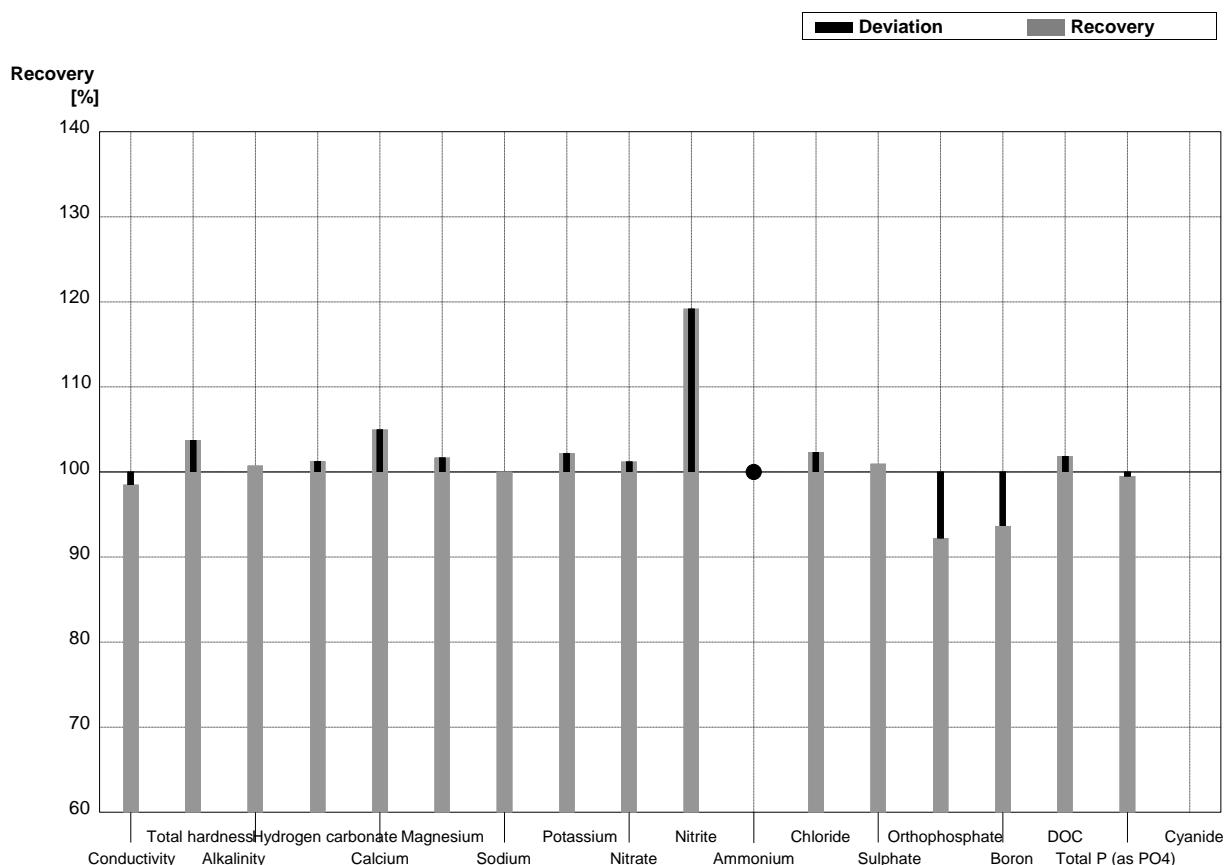
**Sample N153A**  
**Laboratory Z**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	743	3,4	µS/cm	103%
Total hardness	2,80	0,03	2,82		mmol/l	101%
Alkalinity	2,99	0,03	3,04	0,01	mmol/l	102%
Hydrogen carbonate	179	2	182	0,5	mg/l	102%
Calcium	79,5	1,0	80	0,9	mg/l	101%
Magnesium	19,9	0,2	20,0	0,5	mg/l	101%
Sodium	29,2	0,4	29,2	0,7	mg/l	100%
Potassium	7,04	0,07	7,21	0,2	mg/l	102%
Nitrate	69,0	1,5	69,1	0,7	mg/l	100%
Nitrite	0,075	0,001	0,083	0,001	mg/l	111%
Ammonium	0,108	0,007	0,119	0,01	mg/l	110%
Chloride	66,1	1,2	67,2	0,5	mg/l	102%
Sulphate	53,4	0,6	56,0	1,3	mg/l	105%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,056	0,001	0,053	0,002	mg/l	95%
DOC	3,04	0,04	3,00	0,05	mg/l	99%
Total P (as PO4)	<0,009		<0,03		mg/l	•
Cyanide	0,064	0,002			mg/l	



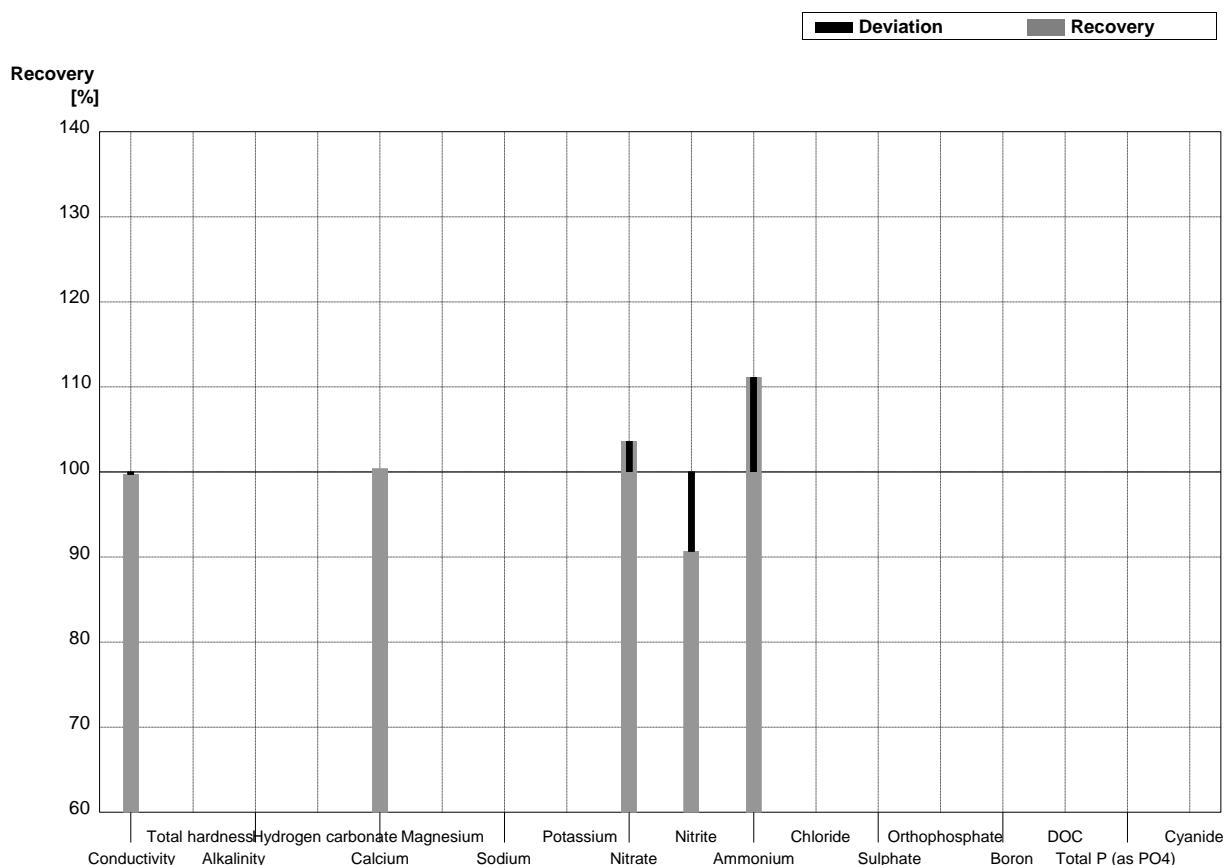
**Sample N153B**  
**Laboratory Z**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	395	1	389	1,2	µS/cm	98%
Total hardness	1,35	0,01	1,40		mmol/l	104%
Alkalinity	1,38	0,01	1,39	0,02	mmol/l	101%
Hydrogen carbonate	81,0	0,5	82	1,3	mg/l	101%
Calcium	34,3	0,5	36,0	0,9	mg/l	105%
Magnesium	12,0	0,1	12,2	0,5	mg/l	102%
Sodium	20,4	0,1	20,4	0,7	mg/l	100%
Potassium	4,09	0,04	4,18	0,2	mg/l	102%
Nitrate	33,5	0,6	33,9	0,7	mg/l	101%
Nitrite	0,0240	0,0005	0,0286	0,001	mg/l	119%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	39,4	0,7	40,3	0,5	mg/l	102%
Sulphate	32,0	0,4	32,3	1,3	mg/l	101%
Orthophosphate	0,072	0,002	0,0664	0,002	mg/l	92%
Boron	0,126	0,001	0,118	0,002	mg/l	94%
DOC	4,28	0,05	4,36	0,03	mg/l	102%
Total P (as PO4)	0,201	0,003	0,200	0,003	mg/l	100%
Cyanide	0,0283	0,0016			mg/l	



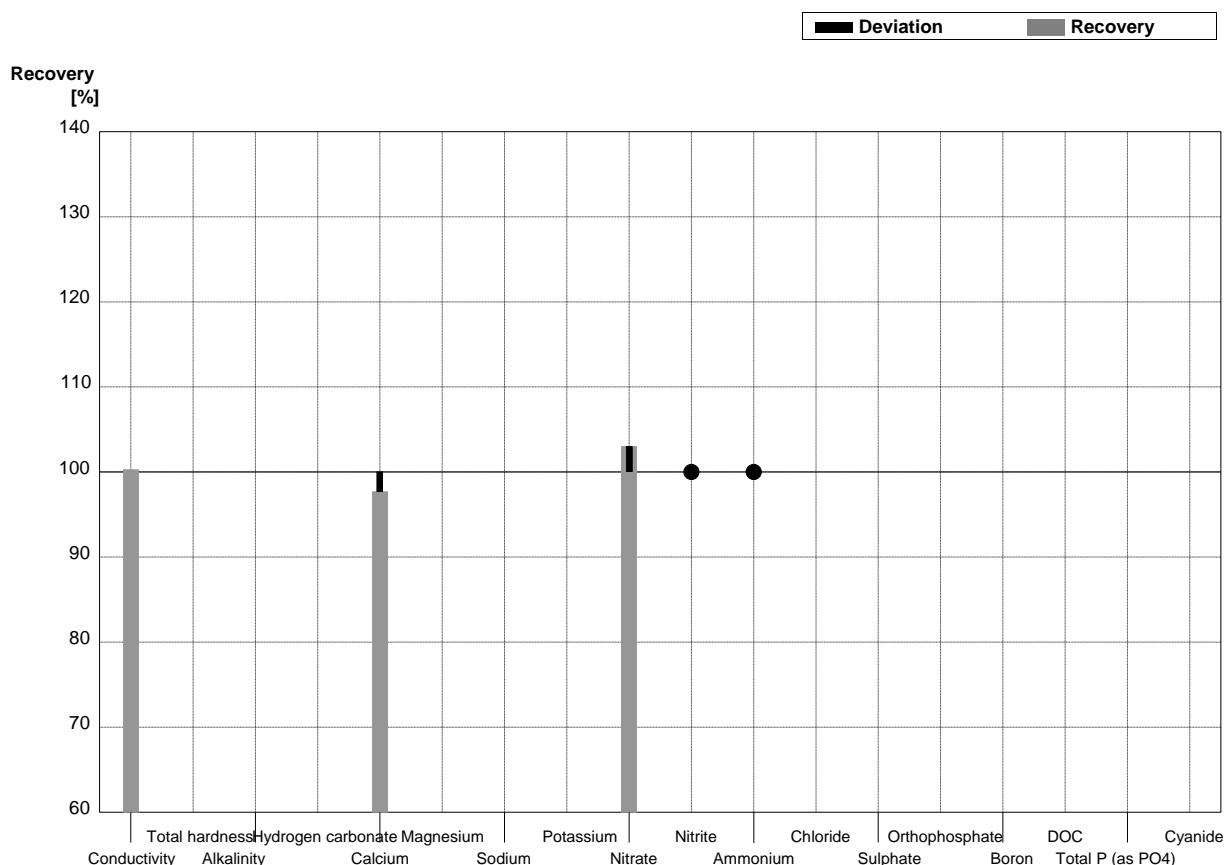
**Sample N153A**  
**Laboratory AA**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	719	12,1	µS/cm	100%
Total hardness	2,80	0,03			mmol/l	
Alkalinity	2,99	0,03			mmol/l	
Hydrogen carbonate	179	2			mg/l	
Calcium	79,5	1,0	79,8	4,73	mg/l	100%
Magnesium	19,9	0,2			mg/l	
Sodium	29,2	0,4			mg/l	
Potassium	7,04	0,07			mg/l	
Nitrate	69,0	1,5	71,5	5,91	mg/l	104%
Nitrite	0,075	0,001	0,068	0,002	mg/l	91%
Ammonium	0,108	0,007	0,120	0,010	mg/l	111%
Chloride	66,1	1,2			mg/l	
Sulphate	53,4	0,6			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04			mg/l	
Total P (as PO <sub>4</sub> )	<0,009				mg/l	
Cyanide	0,064	0,002			mg/l	



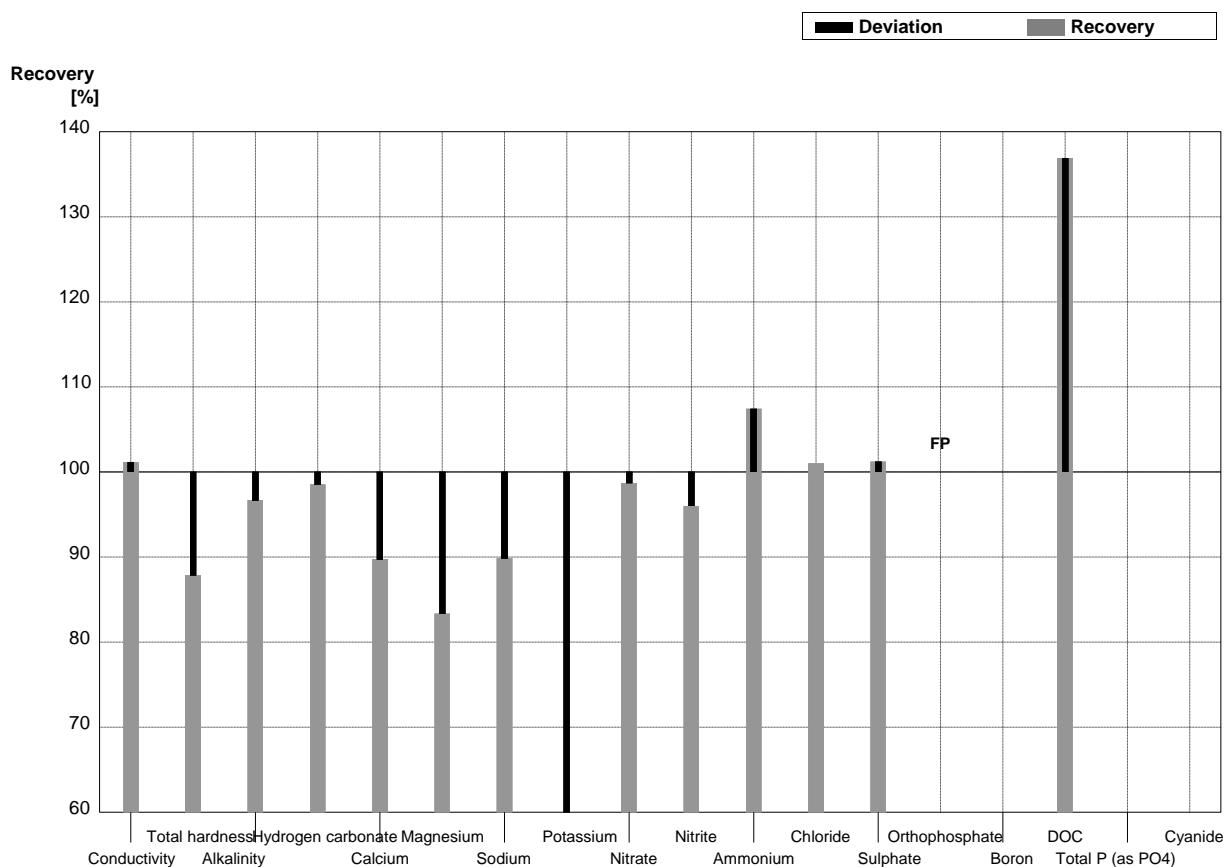
**Sample N153B**  
**Laboratory AA**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	396	6,7	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,35	0,01			$\text{mmol/l}$	
Alkalinity	1,38	0,01			$\text{mmol/l}$	
Hydrogen carbonate	81,0	0,5			$\text{mg/l}$	
Calcium	34,3	0,5	33,5	1,99	$\text{mg/l}$	98%
Magnesium	12,0	0,1			$\text{mg/l}$	
Sodium	20,4	0,1			$\text{mg/l}$	
Potassium	4,09	0,04			$\text{mg/l}$	
Nitrate	33,5	0,6	34,5	2,85	$\text{mg/l}$	103%
Nitrite	0,0240	0,0005	<0,05		$\text{mg/l}$	•
Ammonium	<0,01		<0,05		$\text{mg/l}$	•
Chloride	39,4	0,7			$\text{mg/l}$	
Sulphate	32,0	0,4			$\text{mg/l}$	
Orthophosphate	0,072	0,002			$\text{mg/l}$	
Boron	0,126	0,001			$\text{mg/l}$	
DOC	4,28	0,05			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,201	0,003			$\text{mg/l}$	
Cyanide	0,0283	0,0016			$\text{mg/l}$	



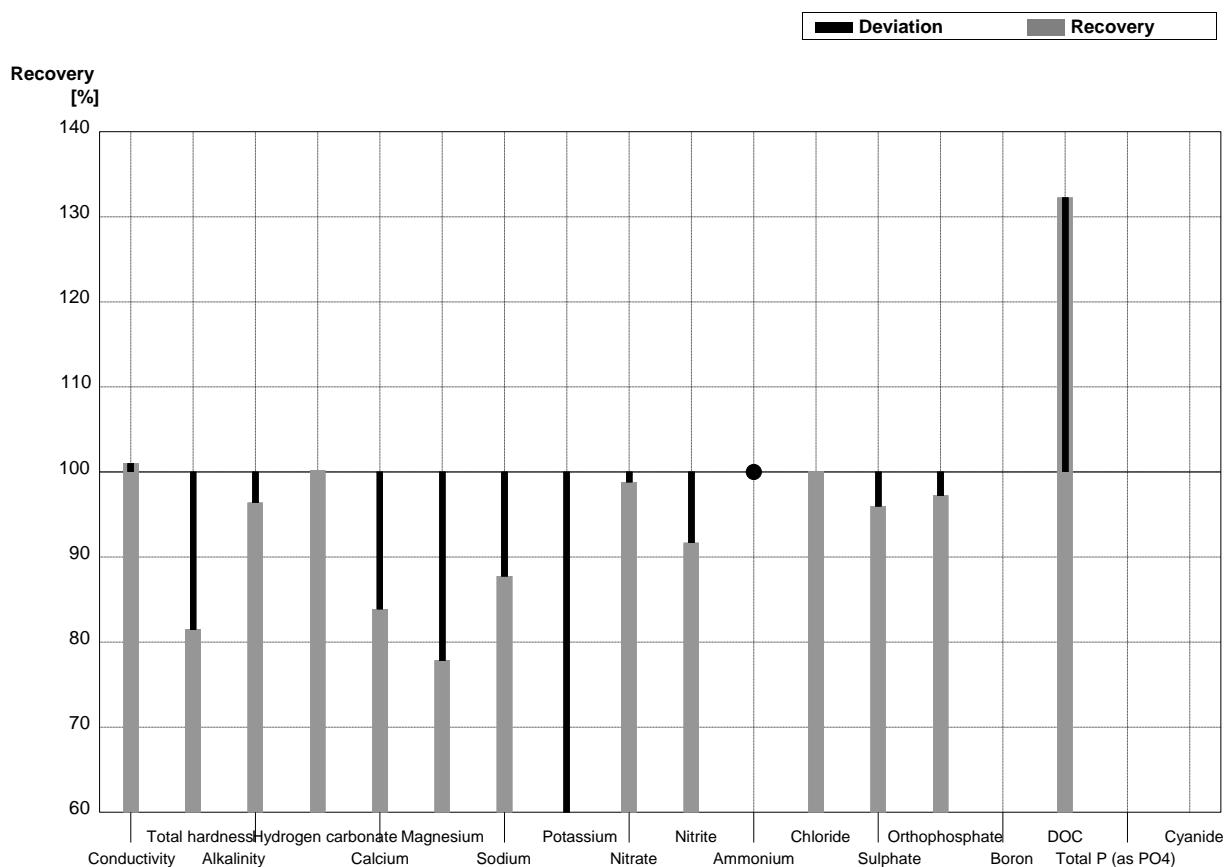
**Sample N153A**  
**Laboratory AB**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	729	29,889	µS/cm	101%
Total hardness	2,80	0,03	2,46	0,300	mmol/l	88%
Alkalinity	2,99	0,03	2,89	0,0578	mmol/l	97%
Hydrogen carbonate	179	2	176,34	3,5268	mg/l	99%
Calcium	79,5	1,0	71,32	3,2807	mg/l	90%
Magnesium	19,9	0,2	16,58	1,26	mg/l	83%
Sodium	29,2	0,4	26,2345	2,099	mg/l	90%
Potassium	7,04	0,07	4,21	0,644	mg/l	60%
Nitrate	69,0	1,5	68,1	12,939	mg/l	99%
Nitrite	0,075	0,001	0,0720	0,0099	mg/l	96%
Ammonium	0,108	0,007	0,1160	0,3874	mg/l	107%
Chloride	66,1	1,2	66,75	6,07425	mg/l	101%
Sulphate	53,4	0,6	54,04	2,86	mg/l	101%
Orthophosphate	<0,009		0,0200	0,0061	mg/l	FP
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04	4,16	1,00	mg/l	137%
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,064	0,002			mg/l	



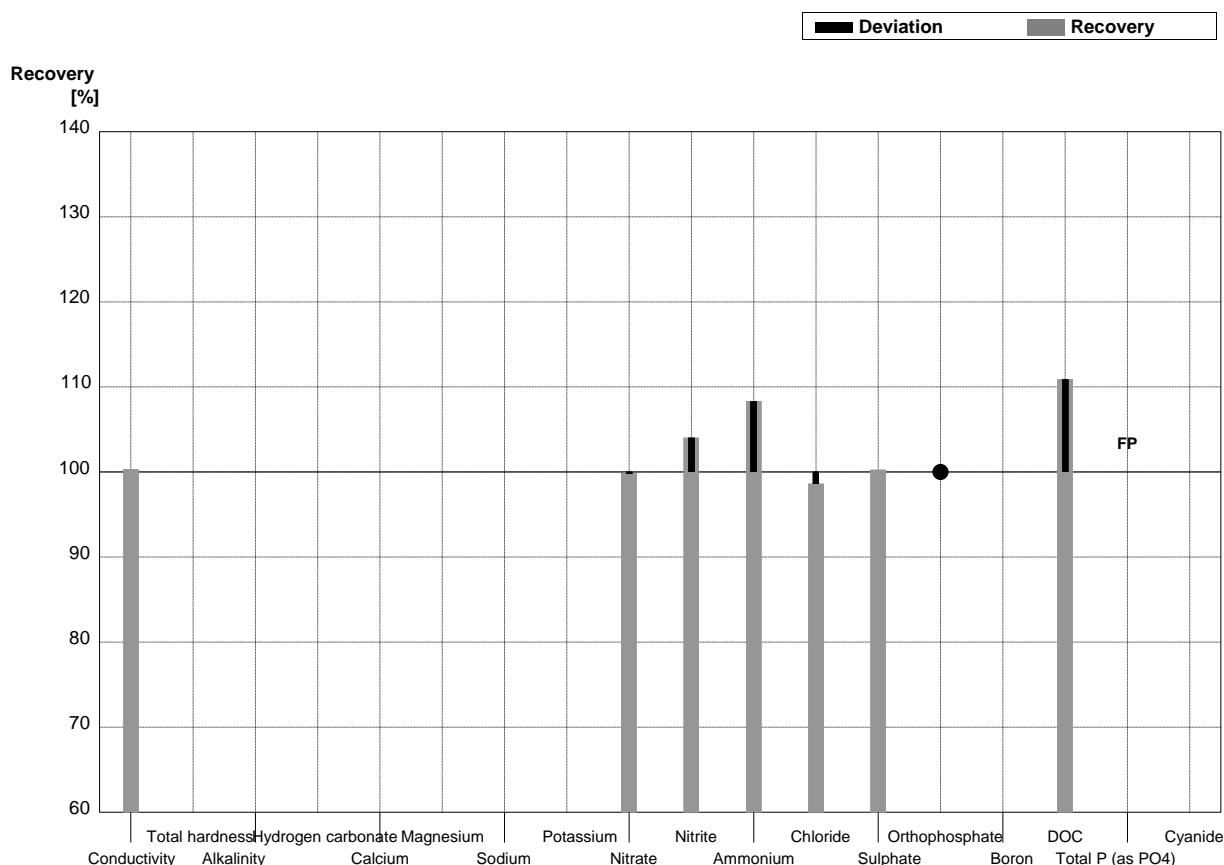
**Sample N153B**  
**Laboratory AB**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	399	16,356	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01	1,10	0,1342	$\text{mmol/l}$	81%
Alkalinity	1,38	0,01	1,33	0,0266	$\text{mmol/l}$	96%
Hydrogen carbonate	81,0	0,5	81,15	1,623	$\text{mg/l}$	100%
Calcium	34,3	0,5	28,77	1,323	$\text{mg/l}$	84%
Magnesium	12,0	0,1	9,34	0,71	$\text{mg/l}$	78%
Sodium	20,4	0,1	17,90	1,432	$\text{mg/l}$	88%
Potassium	4,09	0,04	1,76	0,269	$\text{mg/l}$	43%
Nitrate	33,5	0,6	33,1	6,289	$\text{mg/l}$	99%
Nitrite	0,0240	0,0005	0,0220	0,0030	$\text{mg/l}$	92%
Ammonium	<0,01		'0,0110	0,00367	$\text{mg/l}$	•
Chloride	39,4	0,7	39,44	3,594	$\text{mg/l}$	100%
Sulphate	32,0	0,4	30,71	1,63	$\text{mg/l}$	96%
Orthophosphate	0,072	0,002	0,0700	0,0215	$\text{mg/l}$	97%
Boron	0,126	0,001			$\text{mg/l}$	
DOC	4,28	0,05	5,66	1,36	$\text{mg/l}$	132%
Total P (as PO <sub>4</sub> )	0,201	0,003			$\text{mg/l}$	
Cyanide	0,0283	0,0016			$\text{mg/l}$	



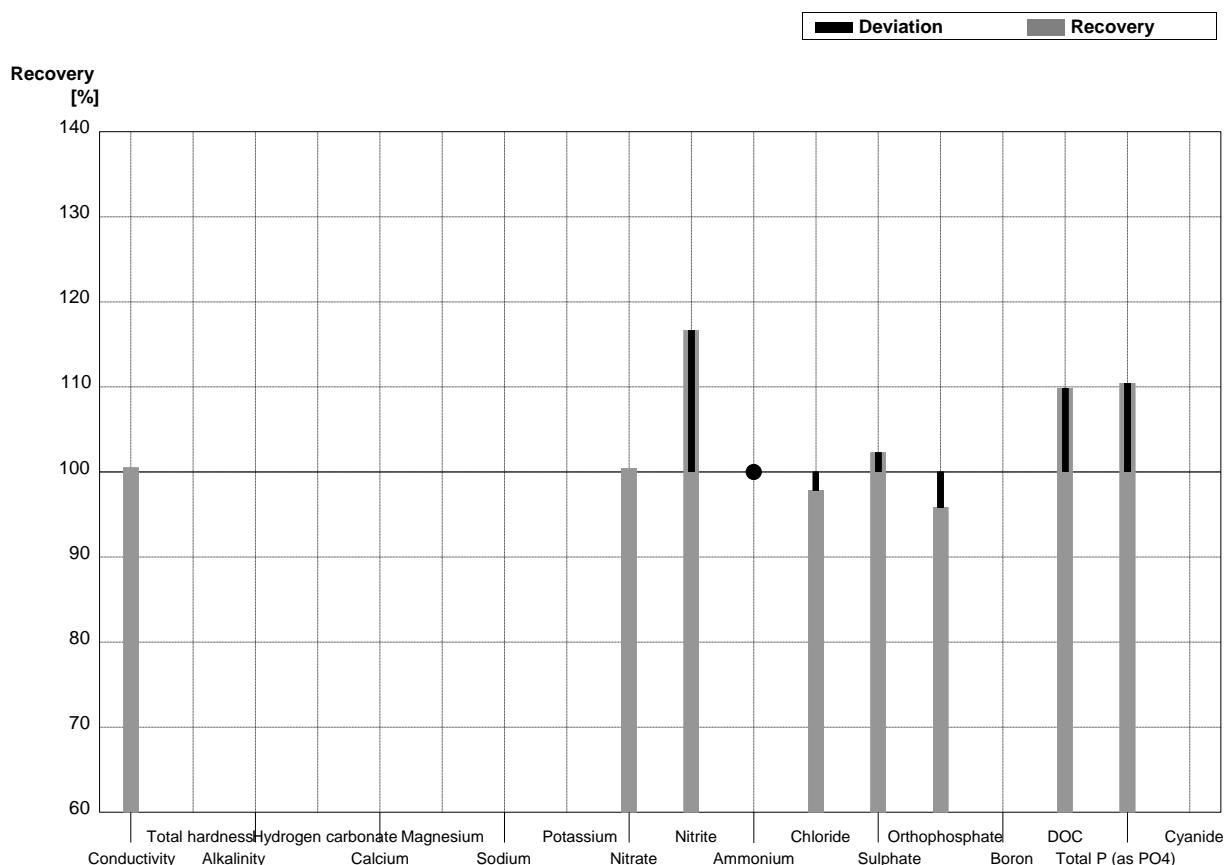
**Sample N153A**  
**Laboratory AC**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	723	36	µS/cm	100%
Total hardness	2,80	0,03			mmol/l	
Alkalinity	2,99	0,03			mmol/l	
Hydrogen carbonate	179	2			mg/l	
Calcium	79,5	1,0			mg/l	
Magnesium	19,9	0,2			mg/l	
Sodium	29,2	0,4			mg/l	
Potassium	7,04	0,07			mg/l	
Nitrate	69,0	1,5	68,87	3,051	mg/l	100%
Nitrite	0,075	0,001	0,078	0,022	mg/l	104%
Ammonium	0,108	0,007	0,117	0,027	mg/l	108%
Chloride	66,1	1,2	65,17	8,524	mg/l	99%
Sulphate	53,4	0,6	53,53	3,260	mg/l	100%
Orthophosphate	<0,009		<0,0150		mg/l	•
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04	3,37	0,61	mg/l	111%
Total P (as PO4)	<0,009		0,0340	0,0040	mg/l	FP
Cyanide	0,064	0,002			mg/l	



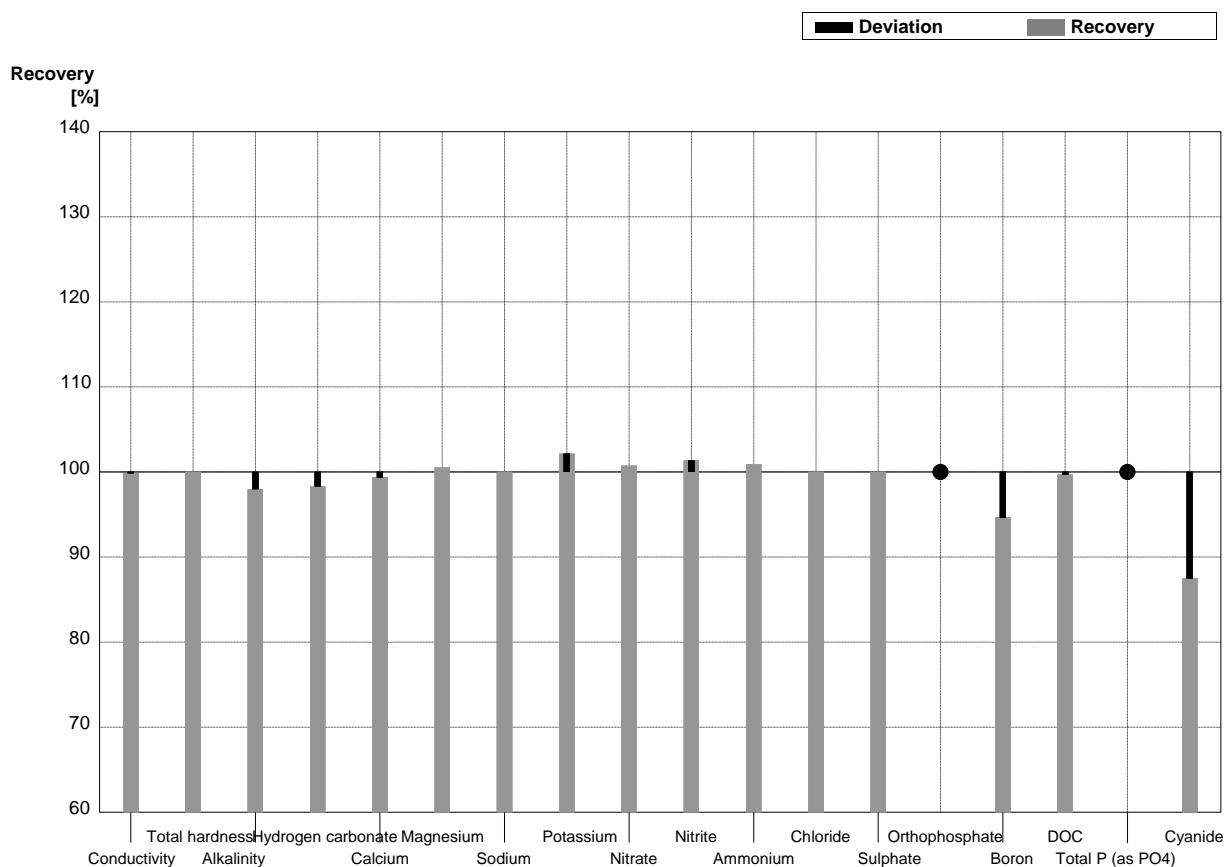
**Sample N153B**  
**Laboratory AC**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	397	20	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01			$\text{mmol/l}$	
Alkalinity	1,38	0,01			$\text{mmol/l}$	
Hydrogen carbonate	81,0	0,5			$\text{mg/l}$	
Calcium	34,3	0,5			$\text{mg/l}$	
Magnesium	12,0	0,1			$\text{mg/l}$	
Sodium	20,4	0,1			$\text{mg/l}$	
Potassium	4,09	0,04			$\text{mg/l}$	
Nitrate	33,5	0,6	33,65	1,491	$\text{mg/l}$	100%
Nitrite	0,0240	0,0005	0,0280	0,0080	$\text{mg/l}$	117%
Ammonium	<0,01		<0,0120		$\text{mg/l}$	•
Chloride	39,4	0,7	38,55	5,042	$\text{mg/l}$	98%
Sulphate	32,0	0,4	32,73	1,993	$\text{mg/l}$	102%
Orthophosphate	0,072	0,002	0,069	0,012	$\text{mg/l}$	96%
Boron	0,126	0,001			$\text{mg/l}$	
DOC	4,28	0,05	4,70	0,85	$\text{mg/l}$	110%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,222	0,027	$\text{mg/l}$	110%
Cyanide	0,0283	0,0016			$\text{mg/l}$	



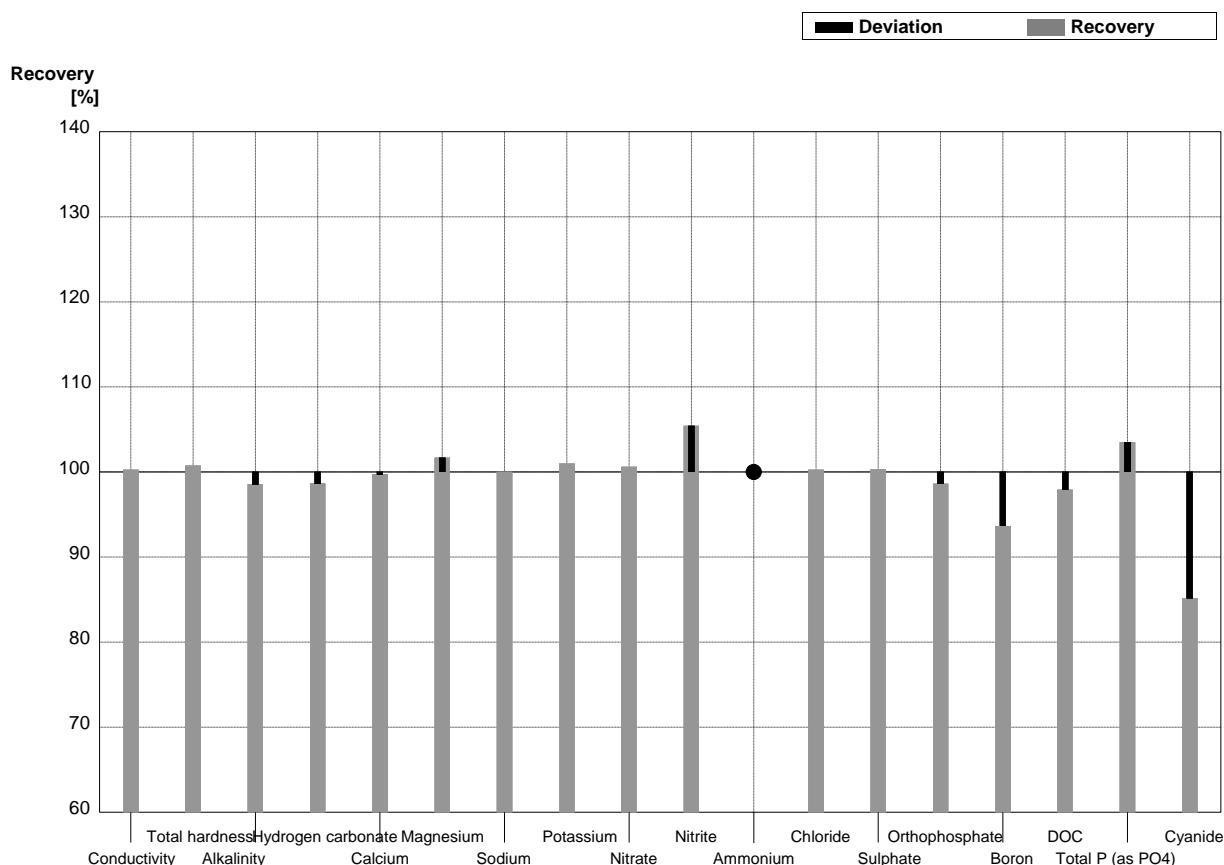
**Sample N153A**  
**Laboratory AD**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	720	21	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,80	0,03	2,80	0,31	$\text{mmol/l}$	100%
Alkalinity	2,99	0,03	2,93	0,09	$\text{mmol/l}$	98%
Hydrogen carbonate	179	2	176	5	$\text{mg/l}$	98%
Calcium	79,5	1,0	79,0	7,1	$\text{mg/l}$	99%
Magnesium	19,9	0,2	20,0	1,8	$\text{mg/l}$	101%
Sodium	29,2	0,4	29,2	2,3	$\text{mg/l}$	100%
Potassium	7,04	0,07	7,19	0,51	$\text{mg/l}$	102%
Nitrate	69,0	1,5	69,5	6,3	$\text{mg/l}$	101%
Nitrite	0,075	0,001	0,076	0,009	$\text{mg/l}$	101%
Ammonium	0,108	0,007	0,109	0,013	$\text{mg/l}$	101%
Chloride	66,1	1,2	66,1	3,3	$\text{mg/l}$	100%
Sulphate	53,4	0,6	53,4	2,7	$\text{mg/l}$	100%
Orthophosphate	<0,009		<0,006		$\text{mg/l}$	•
Boron	0,056	0,001	0,053	0,006	$\text{mg/l}$	95%
DOC	3,04	0,04	3,03	0,27	$\text{mg/l}$	100%
Total P (as PO <sub>4</sub> )	<0,009		<0,006		$\text{mg/l}$	•
Cyanide	0,064	0,002	0,056	0,011	$\text{mg/l}$	88%



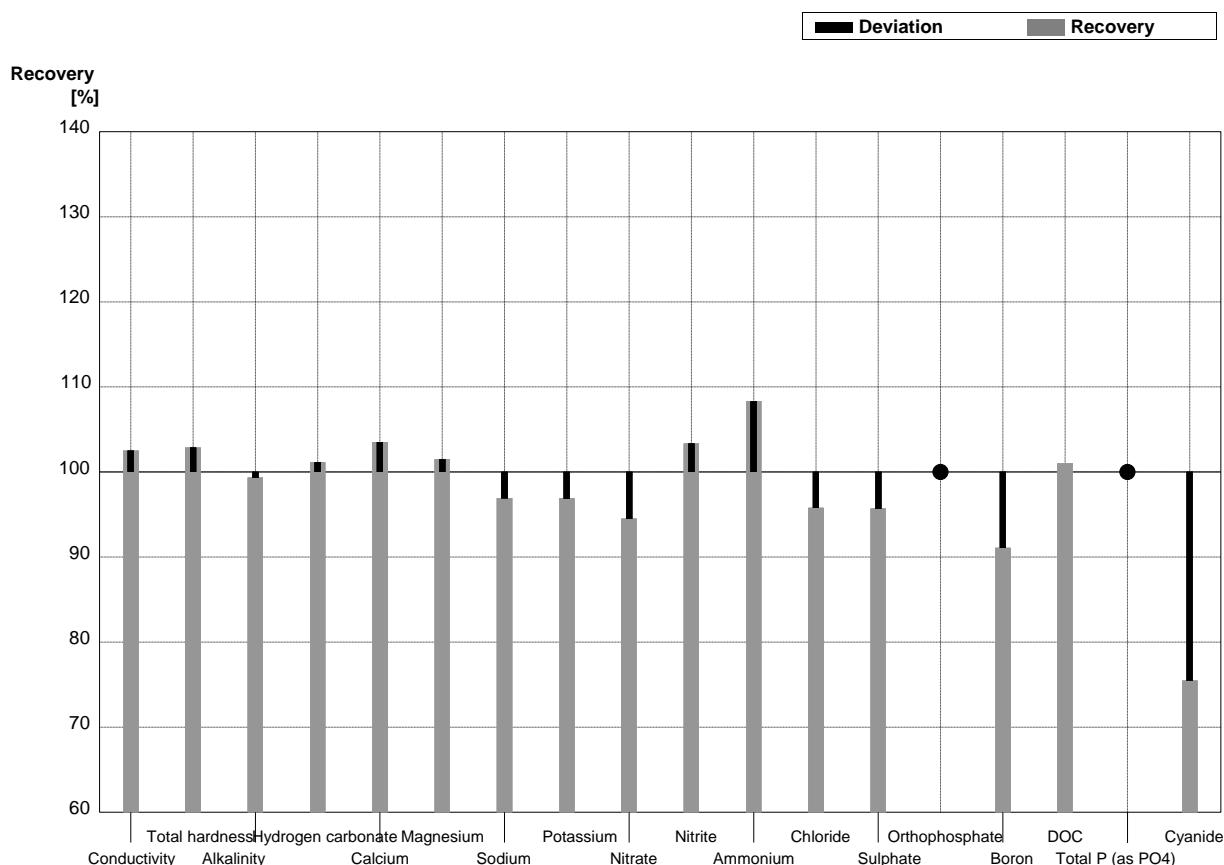
**Sample N153B**  
**Laboratory AD**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	396	12	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,35	0,01	1,36	0,15	$\text{mmol/l}$	101%
Alkalinity	1,38	0,01	1,36	0,05	$\text{mmol/l}$	99%
Hydrogen carbonate	81,0	0,5	79,9	2,4	$\text{mg/l}$	99%
Calcium	34,3	0,5	34,2	3,1	$\text{mg/l}$	100%
Magnesium	12,0	0,1	12,2	1,1	$\text{mg/l}$	102%
Sodium	20,4	0,1	20,4	1,7	$\text{mg/l}$	100%
Potassium	4,09	0,04	4,13	0,29	$\text{mg/l}$	101%
Nitrate	33,5	0,6	33,7	3,1	$\text{mg/l}$	101%
Nitrite	0,0240	0,0005	0,0253	0,0037	$\text{mg/l}$	105%
Ammonium	<0,01		<0,008		$\text{mg/l}$	•
Chloride	39,4	0,7	39,5	2,0	$\text{mg/l}$	100%
Sulphate	32,0	0,4	32,1	1,6	$\text{mg/l}$	100%
Orthophosphate	0,072	0,002	0,071	0,007	$\text{mg/l}$	99%
Boron	0,126	0,001	0,118	0,012	$\text{mg/l}$	94%
DOC	4,28	0,05	4,19	0,38	$\text{mg/l}$	98%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,208	0,021	$\text{mg/l}$	103%
Cyanide	0,0283	0,0016	0,0241	0,0050	$\text{mg/l}$	85%



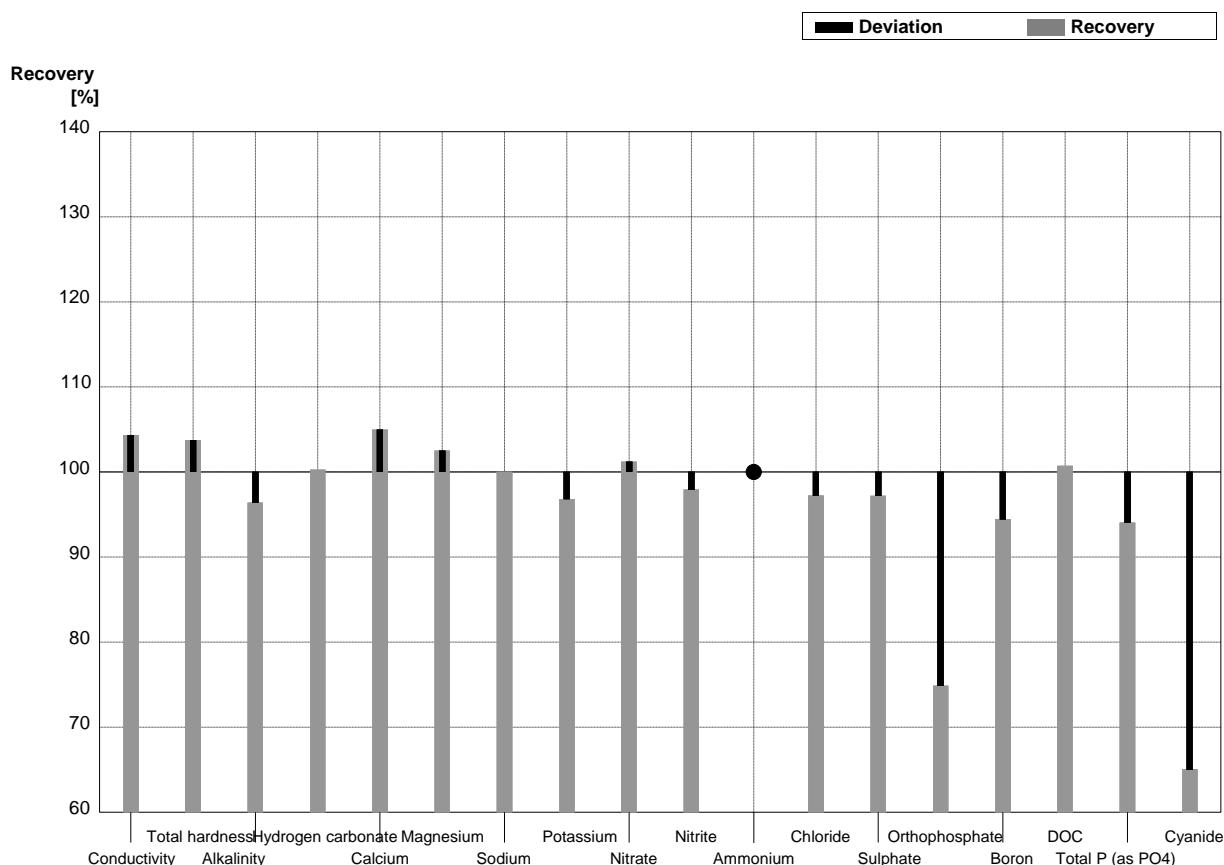
**Sample N153A**  
**Laboratory AE**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	739	74	$\mu\text{S}/\text{cm}$	102%
Total hardness	2,80	0,03	2,88	0,29	$\text{mmol/l}$	103%
Alkalinity	2,99	0,03	2,97	0,30	$\text{mmol/l}$	99%
Hydrogen carbonate	179	2	181	18	$\text{mg/l}$	101%
Calcium	79,5	1,0	82,3	8,2	$\text{mg/l}$	104%
Magnesium	19,9	0,2	20,2	2,0	$\text{mg/l}$	102%
Sodium	29,2	0,4	28,3	2,8	$\text{mg/l}$	97%
Potassium	7,04	0,07	6,82	0,68	$\text{mg/l}$	97%
Nitrate	69,0	1,5	65,2	6,5	$\text{mg/l}$	94%
Nitrite	0,075	0,001	0,0775	0,0078	$\text{mg/l}$	103%
Ammonium	0,108	0,007	0,117	0,012	$\text{mg/l}$	108%
Chloride	66,1	1,2	63,3	6,3	$\text{mg/l}$	96%
Sulphate	53,4	0,6	51,1	5,1	$\text{mg/l}$	96%
Orthophosphate	<0,009		<0,008		$\text{mg/l}$	•
Boron	0,056	0,001	0,051	0,005	$\text{mg/l}$	91%
DOC	3,04	0,04	3,07	0,31	$\text{mg/l}$	101%
Total P (as PO <sub>4</sub> )	<0,009		<0,015		$\text{mg/l}$	•
Cyanide	0,064	0,002	0,0483	0,0048	$\text{mg/l}$	75%



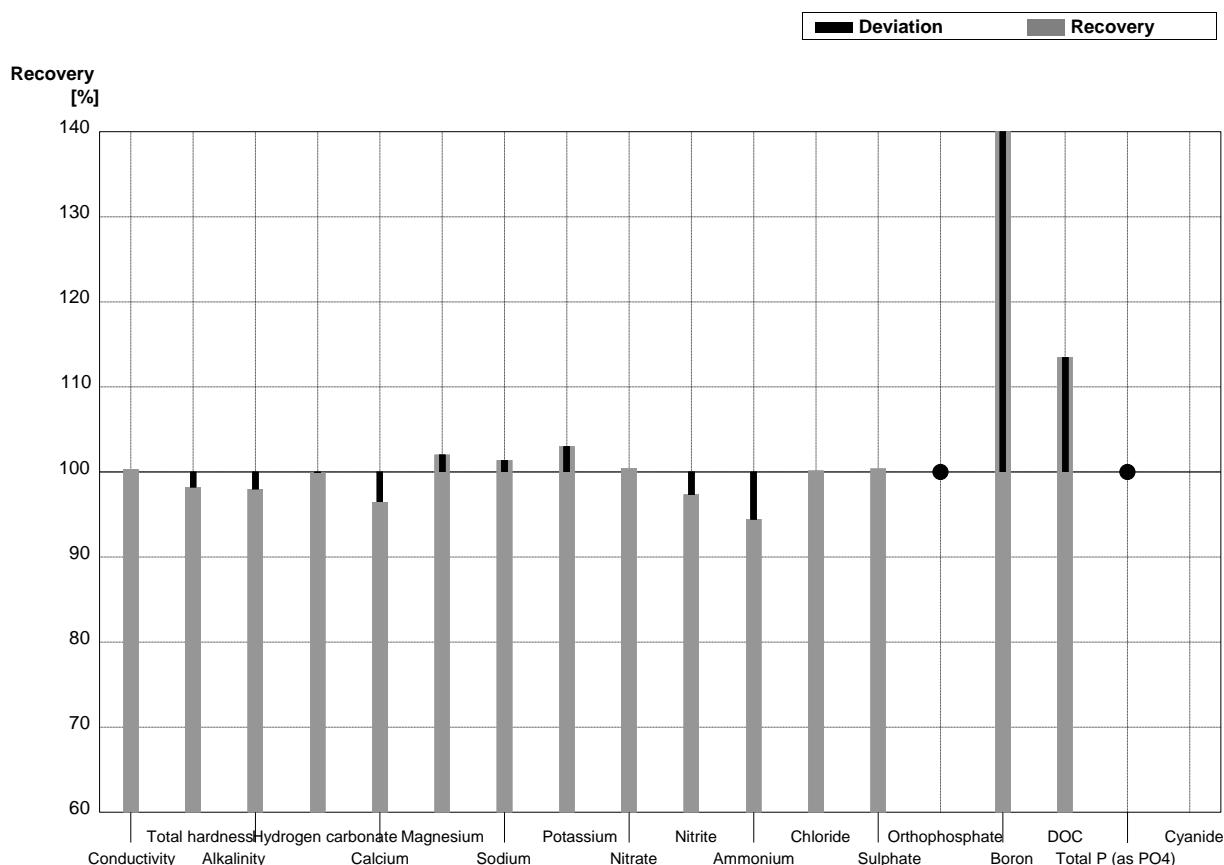
**Sample N153B**  
**Laboratory AE**

Parameter	Target value	$\pm$ U (k=2)	Result	$\pm$	Unit	Recovery
Conductivity	395	1	412	41	$\mu\text{S}/\text{cm}$	104%
Total hardness	1,35	0,01	1,40	0,14	mmol/l	104%
Alkalinity	1,38	0,01	1,33	0,13	mmol/l	96%
Hydrogen carbonate	81,0	0,5	81,2	8,1	mg/l	100%
Calcium	34,3	0,5	36,0	3,6	mg/l	105%
Magnesium	12,0	0,1	12,3	1,2	mg/l	103%
Sodium	20,4	0,1	20,4	2,0	mg/l	100%
Potassium	4,09	0,04	3,96	0,40	mg/l	97%
Nitrate	33,5	0,6	33,9	3,4	mg/l	101%
Nitrite	0,0240	0,0005	0,0235	0,0024	mg/l	98%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	39,4	0,7	38,3	3,8	mg/l	97%
Sulphate	32,0	0,4	31,1	3,1	mg/l	97%
Orthophosphate	0,072	0,002	0,0539	0,0054	mg/l	75%
Boron	0,126	0,001	0,119	0,012	mg/l	94%
DOC	4,28	0,05	4,31	0,43	mg/l	101%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,189	0,038	mg/l	94%
Cyanide	0,0283	0,0016	0,0184	0,0018	mg/l	65%



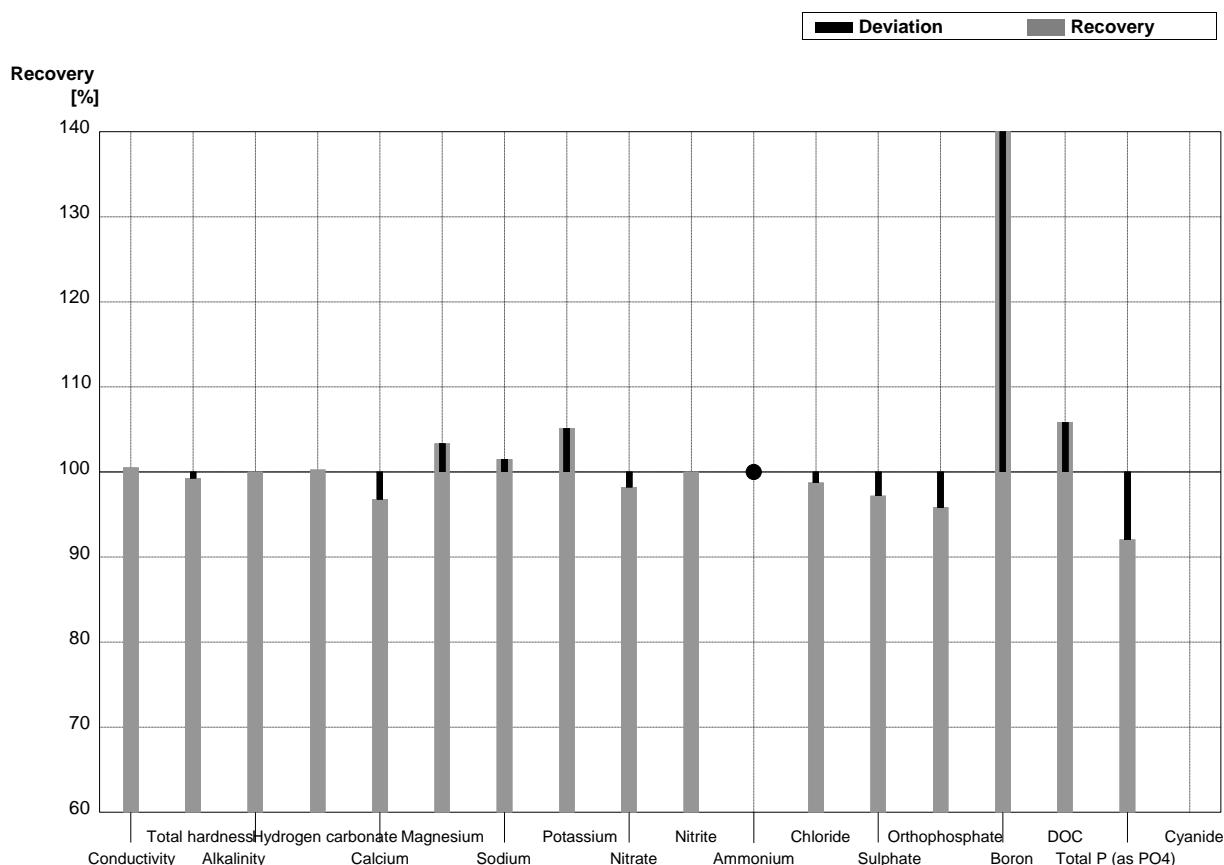
**Sample N153A**  
**Laboratory AF**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	723	10	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,80	0,03	2,75	0,28	$\text{mmol/l}$	98%
Alkalinity	2,99	0,03	2,93	0,3	$\text{mmol/l}$	98%
Hydrogen carbonate	179	2	178,8	18	$\text{mg/l}$	100%
Calcium	79,5	1,0	76,7	11,5	$\text{mg/l}$	96%
Magnesium	19,9	0,2	20,3	3,1	$\text{mg/l}$	102%
Sodium	29,2	0,4	29,6	4,5	$\text{mg/l}$	101%
Potassium	7,04	0,07	7,25	1,1	$\text{mg/l}$	103%
Nitrate	69,0	1,5	69,3	7,0	$\text{mg/l}$	100%
Nitrite	0,075	0,001	0,073	0,007	$\text{mg/l}$	97%
Ammonium	0,108	0,007	0,102	0,010	$\text{mg/l}$	94%
Chloride	66,1	1,2	66,2	7,0	$\text{mg/l}$	100%
Sulphate	53,4	0,6	53,6	5,5	$\text{mg/l}$	100%
Orthophosphate	<0,009		<0,010		$\text{mg/l}$	•
Boron	0,056	0,001	51,8	7,8	$\text{mg/l}$	92500%
DOC	3,04	0,04	3,45	0,35	$\text{mg/l}$	113%
Total P (as PO <sub>4</sub> )	<0,009		<0,010		$\text{mg/l}$	•
Cyanide	0,064	0,002			$\text{mg/l}$	



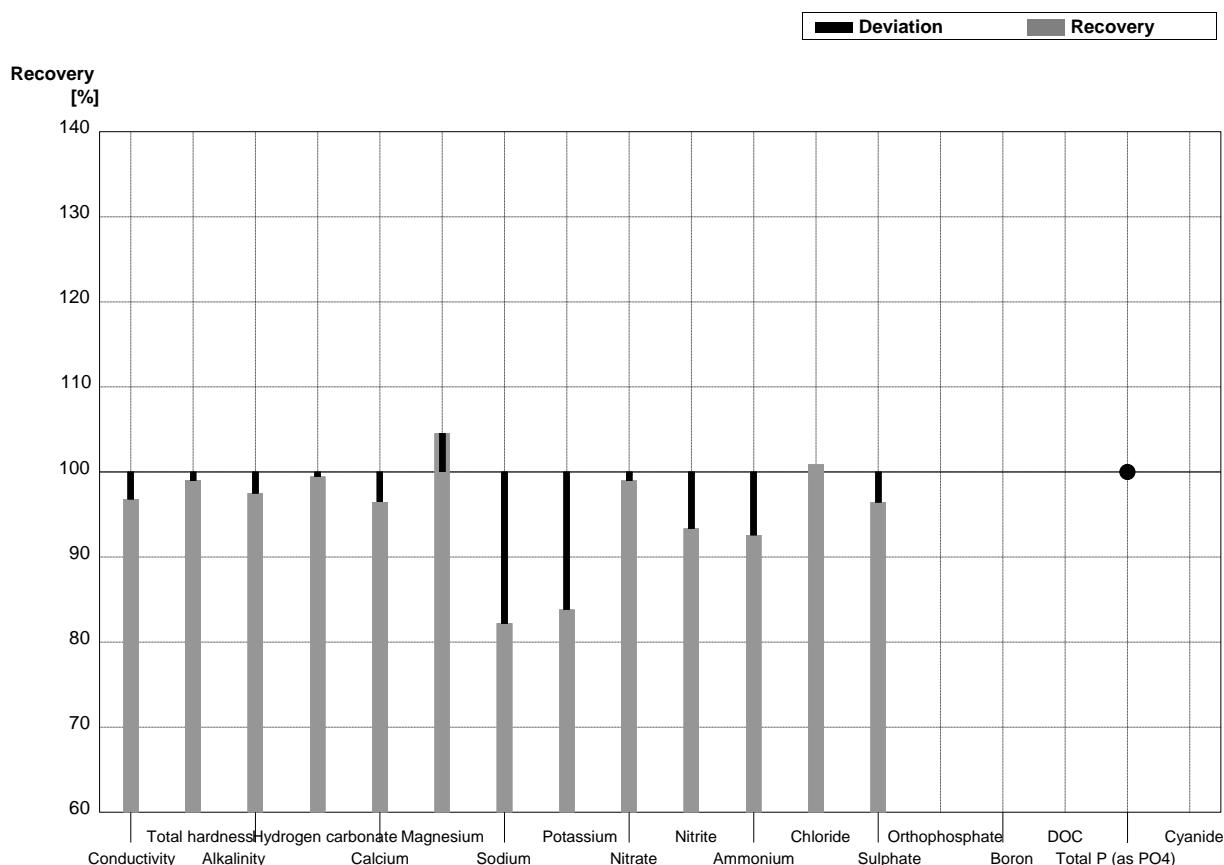
**Sample N153B**  
**Laboratory AF**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	397	10	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01	1,34	0,13	$\text{mmol/l}$	99%
Alkalinity	1,38	0,01	1,38	0,15	$\text{mmol/l}$	100%
Hydrogen carbonate	81,0	0,5	81,2	8	$\text{mg/l}$	100%
Calcium	34,3	0,5	33,2	5,0	$\text{mg/l}$	97%
Magnesium	12,0	0,1	12,4	1,9	$\text{mg/l}$	103%
Sodium	20,4	0,1	20,7	3,2	$\text{mg/l}$	101%
Potassium	4,09	0,04	4,30	0,65	$\text{mg/l}$	105%
Nitrate	33,5	0,6	32,9	3,5	$\text{mg/l}$	98%
Nitrite	0,0240	0,0005	0,0240	0,005	$\text{mg/l}$	100%
Ammonium	<0,01		<0,010		$\text{mg/l}$	•
Chloride	39,4	0,7	38,9	4,0	$\text{mg/l}$	99%
Sulphate	32,0	0,4	31,1	3,5	$\text{mg/l}$	97%
Orthophosphate	0,072	0,002	0,069	0,007	$\text{mg/l}$	96%
Boron	0,126	0,001	117	18	$\text{mg/l}$	92857%
DOC	4,28	0,05	4,53	0,45	$\text{mg/l}$	106%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,185	0,019	$\text{mg/l}$	92%
Cyanide	0,0283	0,0016			$\text{mg/l}$	



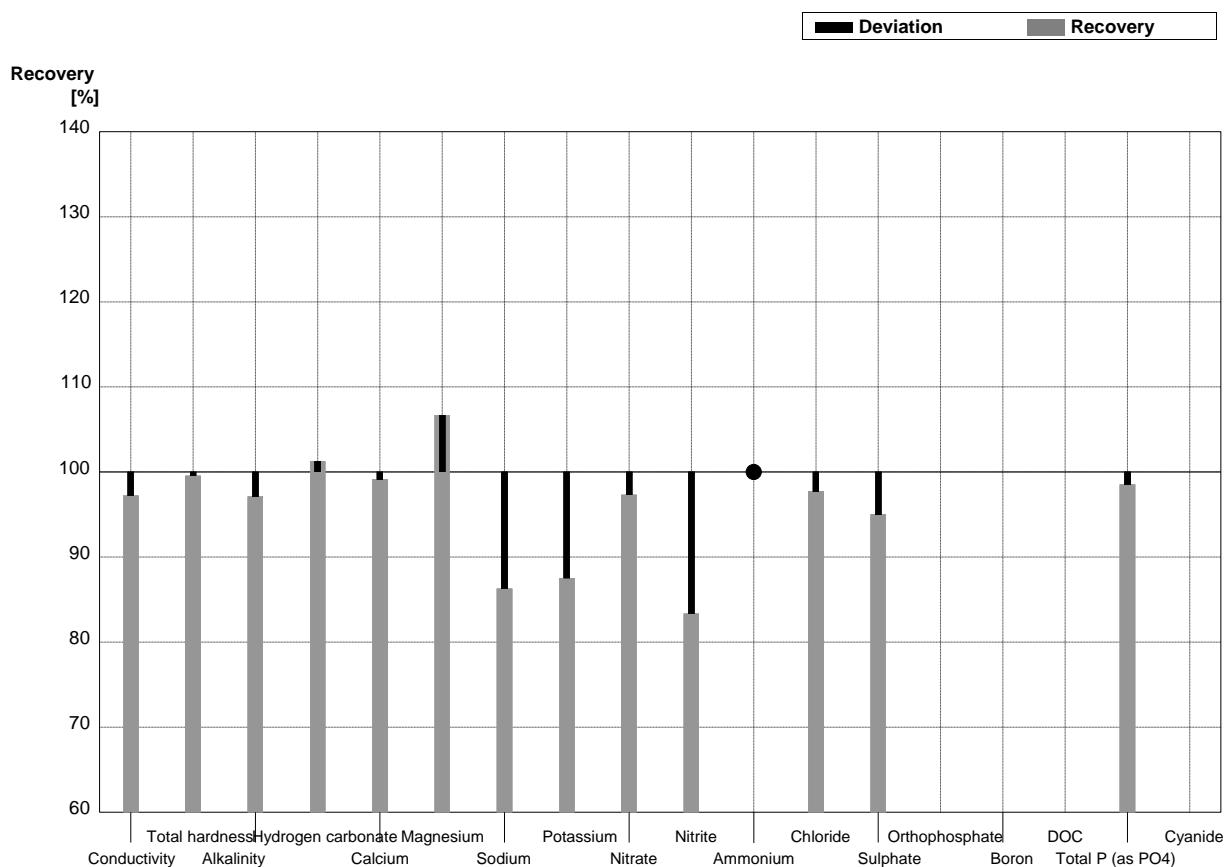
**Sample N153A**  
**Laboratory AG**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	698	14,0	$\mu\text{S}/\text{cm}$	97%
Total hardness	2,80	0,03	2,772	0,025	$\text{mmol/l}$	99%
Alkalinity	2,99	0,03	2,915	0,025	$\text{mmol/l}$	97%
Hydrogen carbonate	179	2	178	10	$\text{mg/l}$	99%
Calcium	79,5	1,0	76,7	2	$\text{mg/l}$	96%
Magnesium	19,9	0,2	20,8	0,4	$\text{mg/l}$	105%
Sodium	29,2	0,4	24,0	1	$\text{mg/l}$	82%
Potassium	7,04	0,07	5,9	0,2	$\text{mg/l}$	84%
Nitrate	69,0	1,5	68,3	1	$\text{mg/l}$	99%
Nitrite	0,075	0,001	0,070	0,01	$\text{mg/l}$	93%
Ammonium	0,108	0,007	0,100	0,01	$\text{mg/l}$	93%
Chloride	66,1	1,2	66,7	1	$\text{mg/l}$	101%
Sulphate	53,4	0,6	51,5	1,5	$\text{mg/l}$	96%
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,056	0,001			$\text{mg/l}$	
DOC	3,04	0,04			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009		<0,05	0,05	$\text{mg/l}$	•
Cyanide	0,064	0,002			$\text{mg/l}$	



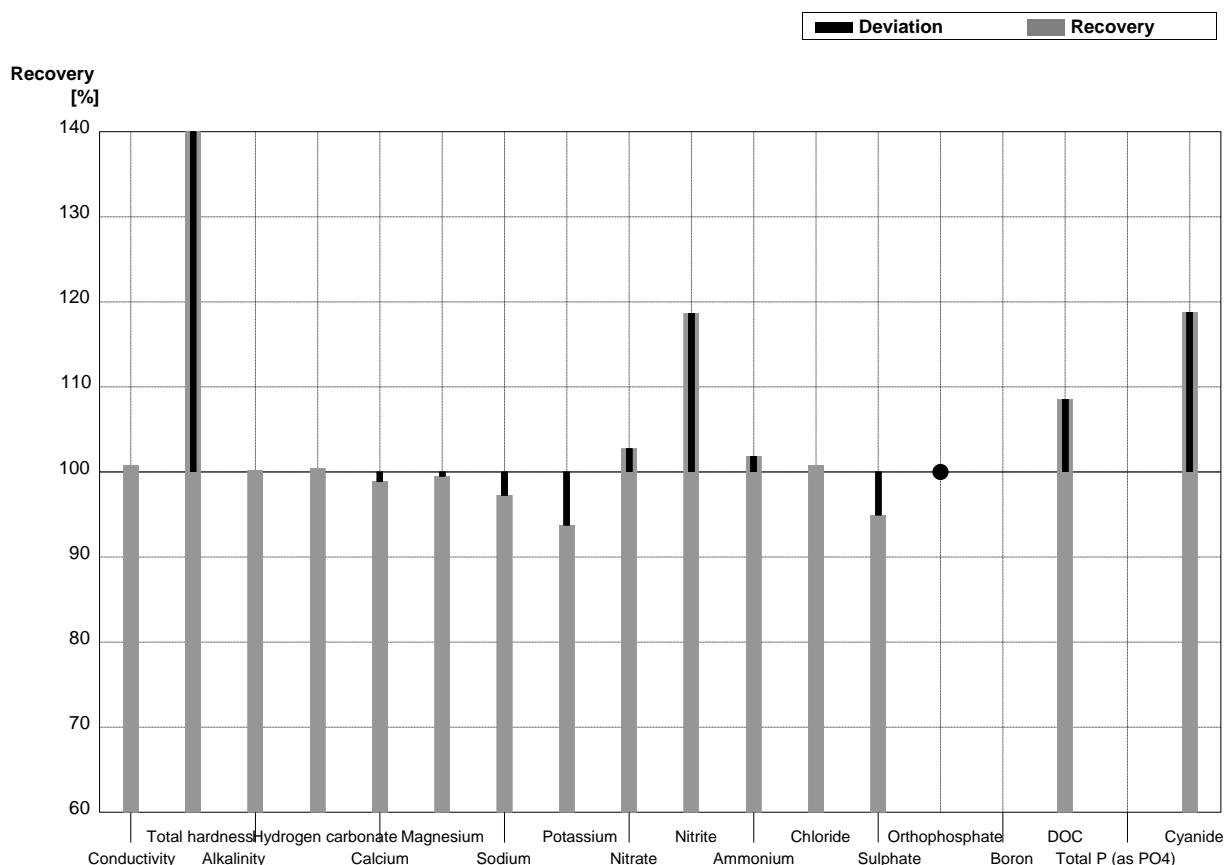
**Sample N153B**  
**Laboratory AG**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	384	14,0	$\mu\text{S}/\text{cm}$	97%
Total hardness	1,35	0,01	1,344	0,025	$\text{mmol/l}$	100%
Alkalinity	1,38	0,01	1,340	0,025	$\text{mmol/l}$	97%
Hydrogen carbonate	81,0	0,5	82	10	$\text{mg/l}$	101%
Calcium	34,3	0,5	34,0	2	$\text{mg/l}$	99%
Magnesium	12,0	0,1	12,8	0,4	$\text{mg/l}$	107%
Sodium	20,4	0,1	17,6	1	$\text{mg/l}$	86%
Potassium	4,09	0,04	3,58	0,2	$\text{mg/l}$	88%
Nitrate	33,5	0,6	32,6	1	$\text{mg/l}$	97%
Nitrite	0,0240	0,0005	0,0200	0,01	$\text{mg/l}$	83%
Ammonium	<0,01		<0,02	0,01	$\text{mg/l}$	•
Chloride	39,4	0,7	38,5	1	$\text{mg/l}$	98%
Sulphate	32,0	0,4	30,4	1,5	$\text{mg/l}$	95%
Orthophosphate	0,072	0,002			$\text{mg/l}$	
Boron	0,126	0,001			$\text{mg/l}$	
DOC	4,28	0,05			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,201	0,003	0,198	0,05	$\text{mg/l}$	99%
Cyanide	0,0283	0,0016			$\text{mg/l}$	



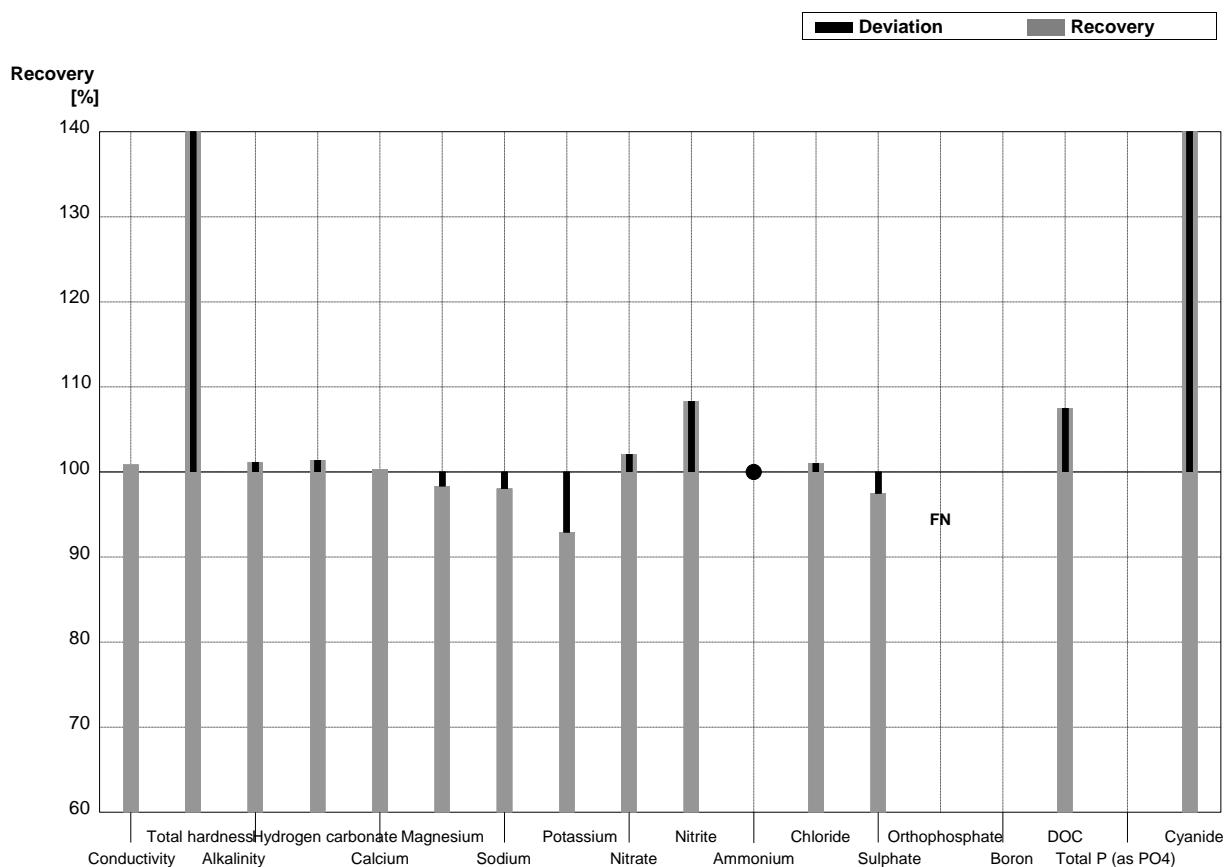
**Sample N153A**  
**Laboratory AH**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	726,5		µS/cm	101%
Total hardness	2,80	0,03	15,5		mmol/l	554%
Alkalinity	2,99	0,03	2,996		mmol/l	100%
Hydrogen carbonate	179	2	179,8		mg/l	100%
Calcium	79,5	1,0	78,6		mg/l	99%
Magnesium	19,9	0,2	19,8		mg/l	99%
Sodium	29,2	0,4	28,4		mg/l	97%
Potassium	7,04	0,07	6,6		mg/l	94%
Nitrate	69,0	1,5	70,9		mg/l	103%
Nitrite	0,075	0,001	0,089		mg/l	119%
Ammonium	0,108	0,007	0,110		mg/l	102%
Chloride	66,1	1,2	66,6		mg/l	101%
Sulphate	53,4	0,6	50,7		mg/l	95%
Orthophosphate	<0,009		<0,02		mg/l	•
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04	3,30		mg/l	109%
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,064	0,002	0,076		mg/l	119%



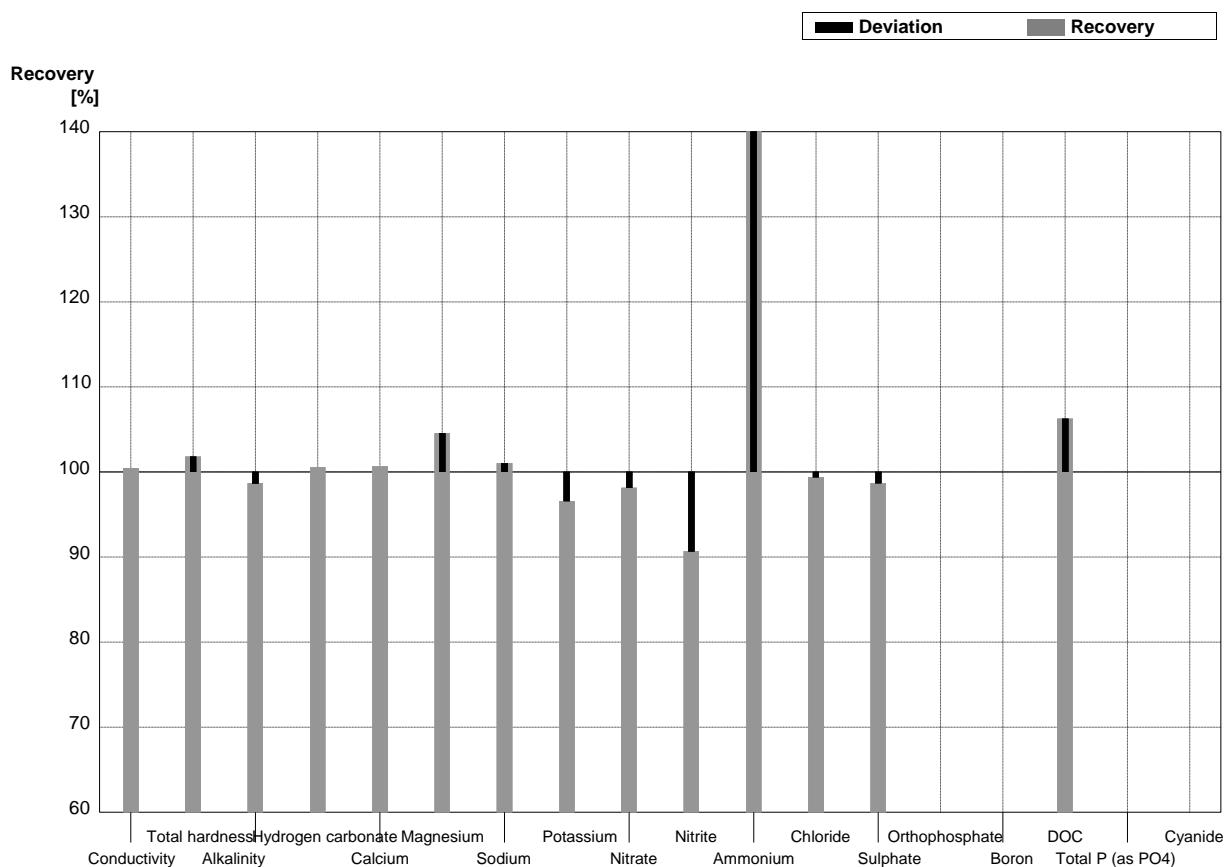
**Sample N153B**  
**Laboratory AH**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	395	1	398,4		µS/cm	101%
Total hardness	1,35	0,01	7,5		mmol/l	556%
Alkalinity	1,38	0,01	1,396		mmol/l	101%
Hydrogen carbonate	81,0	0,5	82,1		mg/l	101%
Calcium	34,3	0,5	34,4		mg/l	100%
Magnesium	12,0	0,1	11,8		mg/l	98%
Sodium	20,4	0,1	20,0		mg/l	98%
Potassium	4,09	0,04	3,80		mg/l	93%
Nitrate	33,5	0,6	34,2		mg/l	102%
Nitrite	0,0240	0,0005	0,0260		mg/l	108%
Ammonium	<0,01		<0,03		mg/l	•
Chloride	39,4	0,7	39,8		mg/l	101%
Sulphate	32,0	0,4	31,2		mg/l	98%
Orthophosphate	0,072	0,002	<0,02		mg/l	FN
Boron	0,126	0,001			mg/l	
DOC	4,28	0,05	4,60		mg/l	107%
Total P (as PO4)	0,201	0,003			mg/l	
Cyanide	0,0283	0,0016	0,050		mg/l	177%



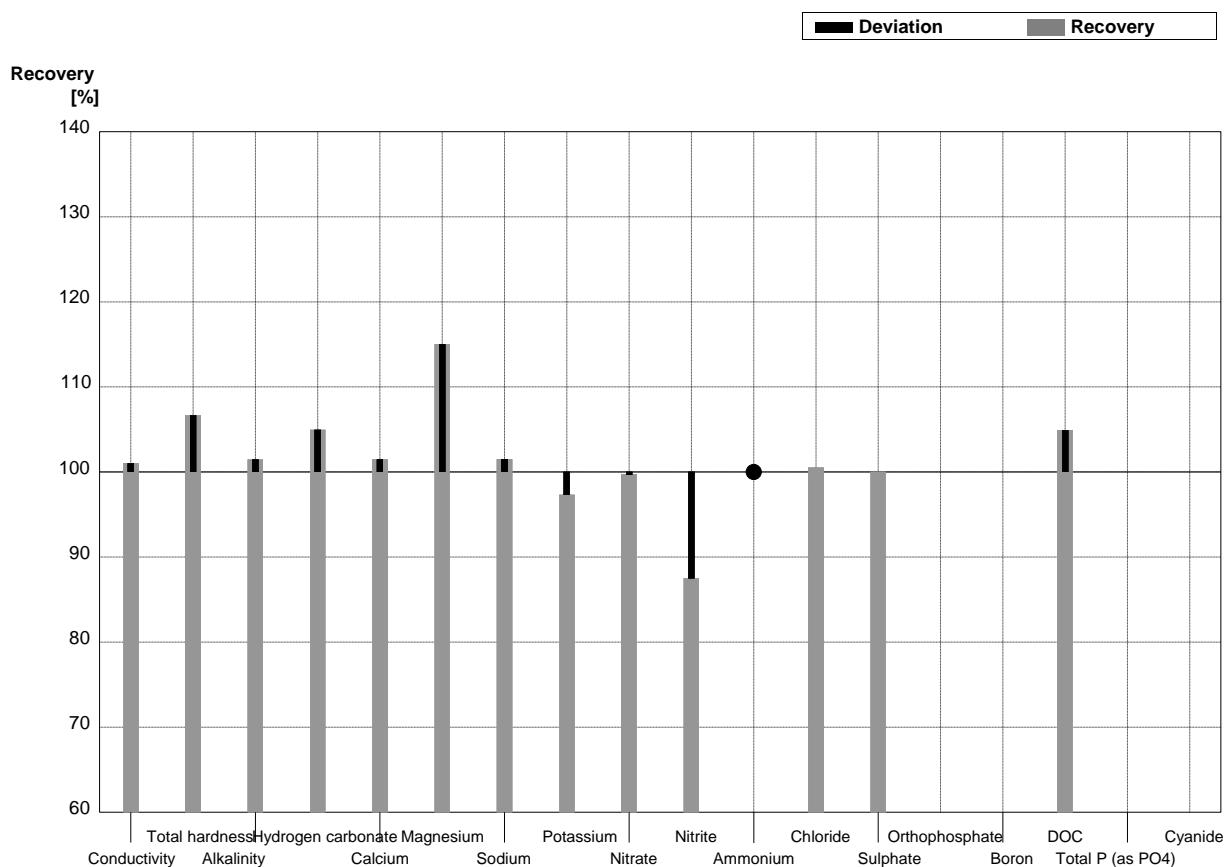
**Sample N153A**  
**Laboratory AI**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	724	4	µS/cm	100%
Total hardness	2,80	0,03	2,85	0,03	mmol/l	102%
Alkalinity	2,99	0,03	2,95	0,11	mmol/l	99%
Hydrogen carbonate	179	2	180	7	mg/l	101%
Calcium	79,5	1,0	80,0	0,3	mg/l	101%
Magnesium	19,9	0,2	20,8	0,1	mg/l	105%
Sodium	29,2	0,4	29,5	0,2	mg/l	101%
Potassium	7,04	0,07	6,8	0,05	mg/l	97%
Nitrate	69,0	1,5	67,7	0,6	mg/l	98%
Nitrite	0,075	0,001	0,068	0,005	mg/l	91%
Ammonium	0,108	0,007	0,174	0,06	mg/l	161%
Chloride	66,1	1,2	65,7	0,4	mg/l	99%
Sulphate	53,4	0,6	52,7	0,5	mg/l	99%
Orthophosphate	<0,009				mg/l	
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04	3,23	0,29	mg/l	106%
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,064	0,002			mg/l	



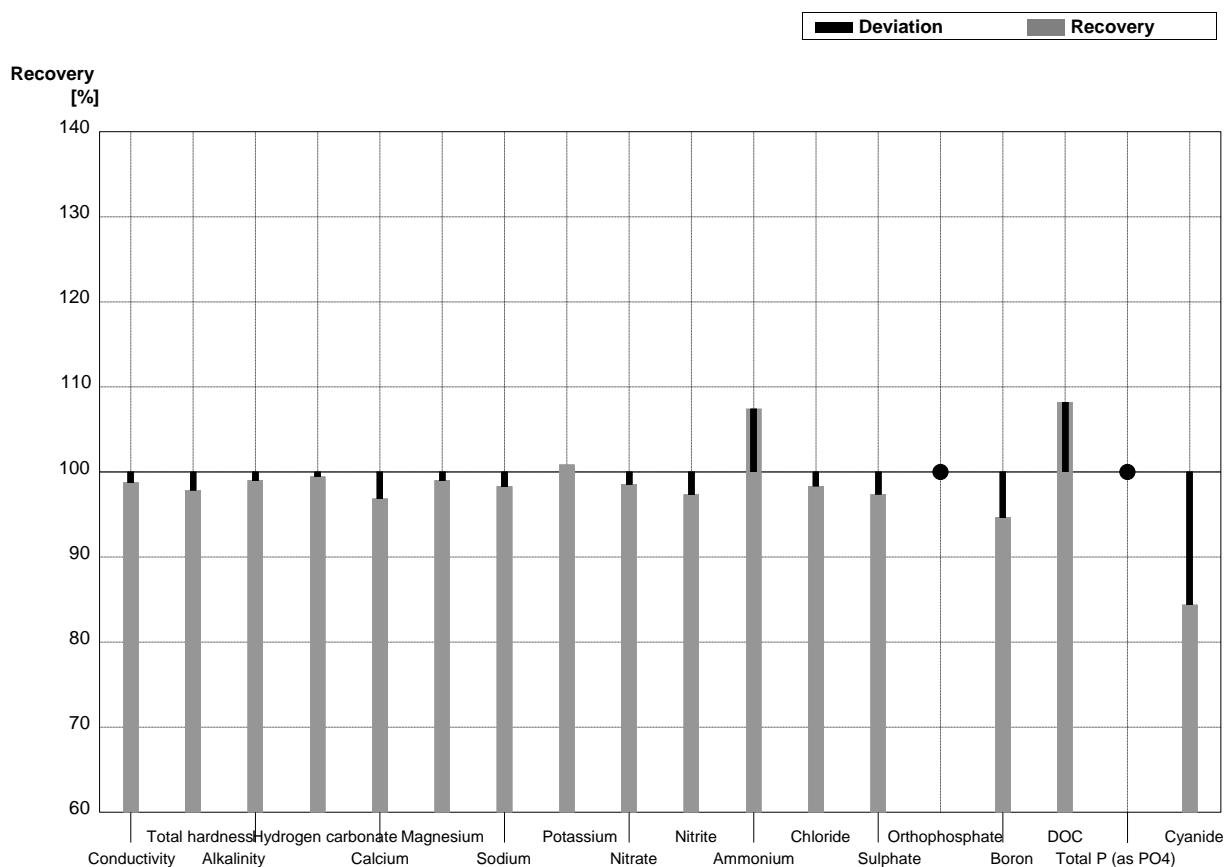
**Sample N153B**  
**Laboratory AI**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	399	2	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01	1,44	0,01	$\text{mmol/l}$	107%
Alkalinity	1,38	0,01	1,40	0,05	$\text{mmol/l}$	101%
Hydrogen carbonate	81,0	0,5	85	3	$\text{mg/l}$	105%
Calcium	34,3	0,5	34,8	0,1	$\text{mg/l}$	101%
Magnesium	12,0	0,1	13,8	0,1	$\text{mg/l}$	115%
Sodium	20,4	0,1	20,7	0,1	$\text{mg/l}$	101%
Potassium	4,09	0,04	3,98	0,03	$\text{mg/l}$	97%
Nitrate	33,5	0,6	33,4	0,3	$\text{mg/l}$	100%
Nitrite	0,0240	0,0005	0,0210	0,002	$\text{mg/l}$	88%
Ammonium	<0,01		<0,01		$\text{mg/l}$	•
Chloride	39,4	0,7	39,6	0,2	$\text{mg/l}$	101%
Sulphate	32,0	0,4	32,0	0,3	$\text{mg/l}$	100%
Orthophosphate	0,072	0,002			$\text{mg/l}$	
Boron	0,126	0,001			$\text{mg/l}$	
DOC	4,28	0,05	4,49	0,4	$\text{mg/l}$	105%
Total P (as PO <sub>4</sub> )	0,201	0,003			$\text{mg/l}$	
Cyanide	0,0283	0,0016			$\text{mg/l}$	



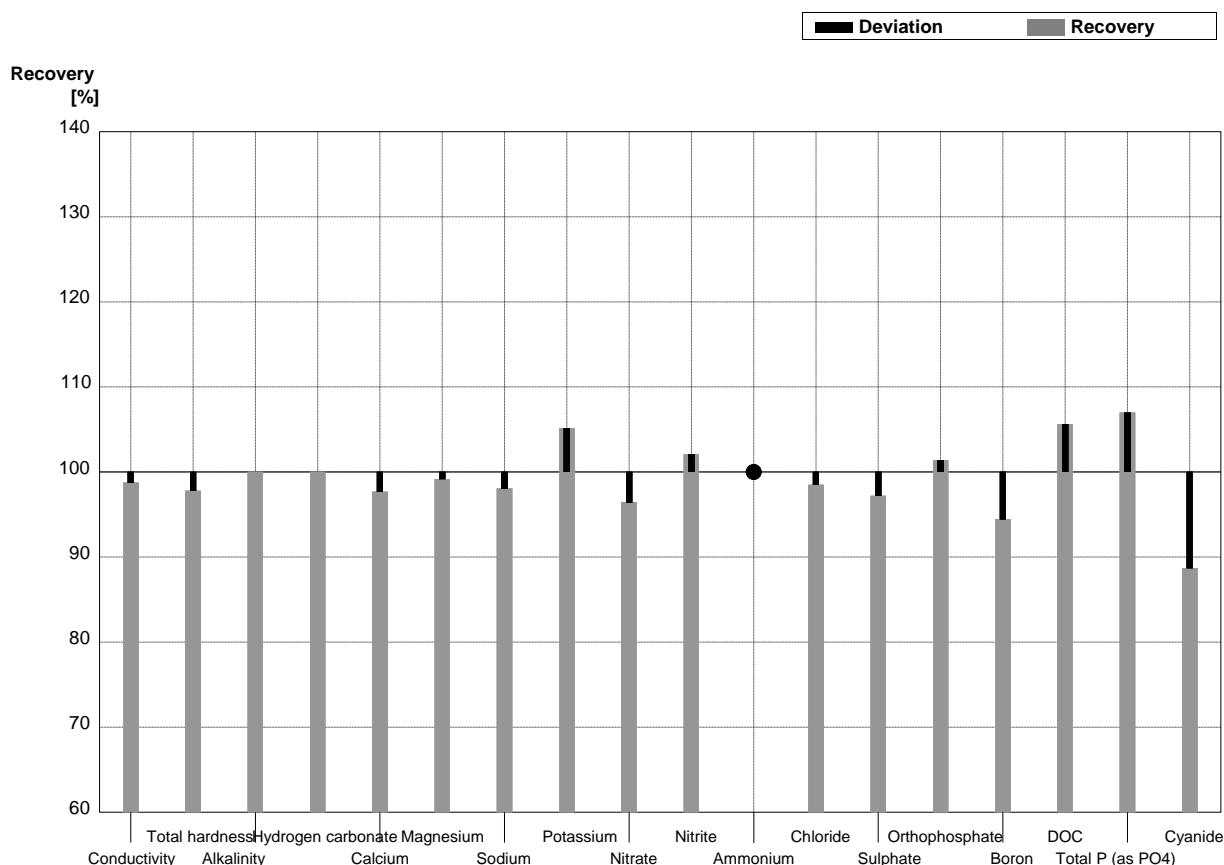
**Sample N153A**  
**Laboratory AJ**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	712	28	µS/cm	99%
Total hardness	2,80	0,03	2,74	0,25	mmol/l	98%
Alkalinity	2,99	0,03	2,96	0,12	mmol/l	99%
Hydrogen carbonate	179	2	178	16	mg/l	99%
Calcium	79,5	1,0	77	6,93	mg/l	97%
Magnesium	19,9	0,2	19,7	1,77	mg/l	99%
Sodium	29,2	0,4	28,7	2,58	mg/l	98%
Potassium	7,04	0,07	7,1	0,64	mg/l	101%
Nitrate	69,0	1,5	68	6,12	mg/l	99%
Nitrite	0,075	0,001	0,073	0,07	mg/l	97%
Ammonium	0,108	0,007	0,116	0,01	mg/l	107%
Chloride	66,1	1,2	65	5,85	mg/l	98%
Sulphate	53,4	0,6	52	4,68	mg/l	97%
Orthophosphate	<0,009		<0,0100		mg/l	•
Boron	0,056	0,001	0,053	0,01	mg/l	95%
DOC	3,04	0,04	3,29	0,30	mg/l	108%
Total P (as PO4)	<0,009		<0,050		mg/l	•
Cyanide	0,064	0,002	0,054	0,005	mg/l	84%



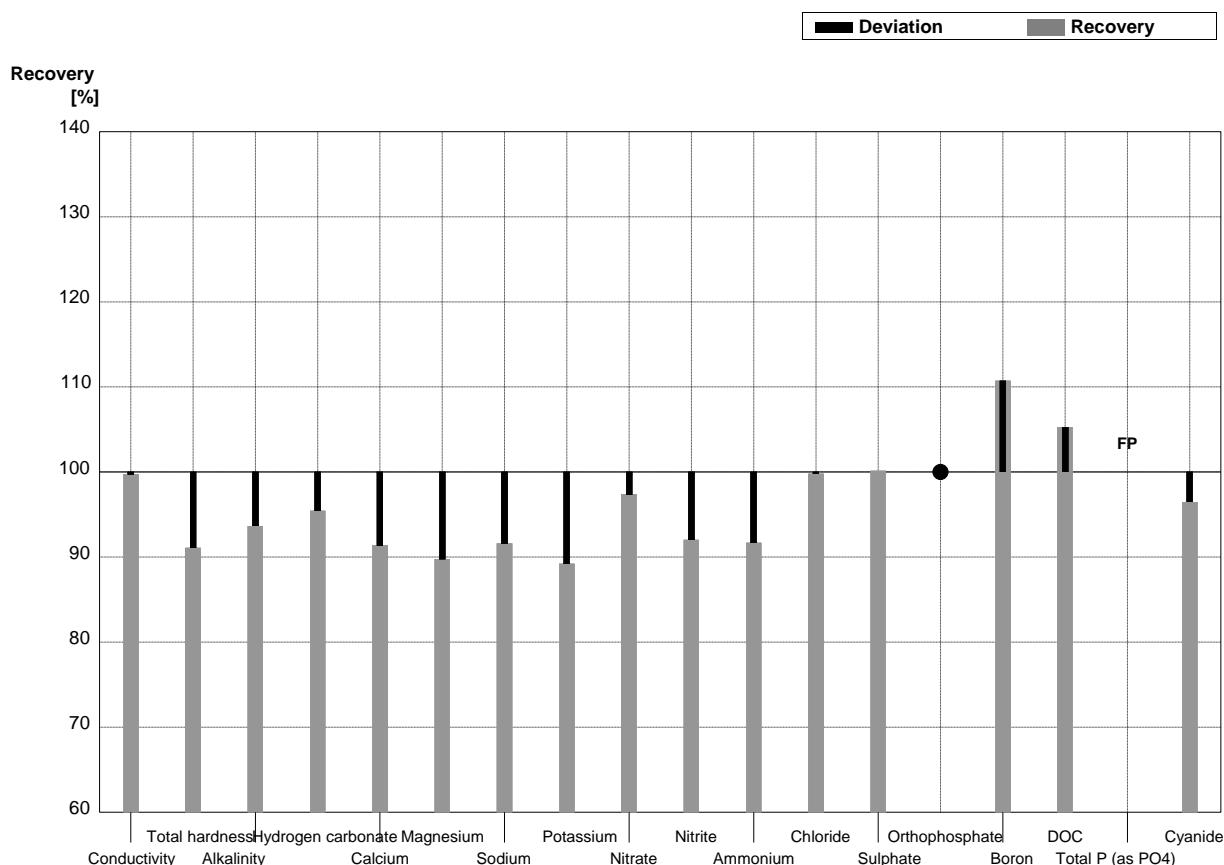
**Sample N153B**  
**Laboratory AJ**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	390	16	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,35	0,01	1,32	0,12	$\text{mmol/l}$	98%
Alkalinity	1,38	0,01	1,38	0,06	$\text{mmol/l}$	100%
Hydrogen carbonate	81,0	0,5	81	3,24	$\text{mg/l}$	100%
Calcium	34,3	0,5	33,5	3,02	$\text{mg/l}$	98%
Magnesium	12,0	0,1	11,9	1,07	$\text{mg/l}$	99%
Sodium	20,4	0,1	20,0	1,8	$\text{mg/l}$	98%
Potassium	4,09	0,04	4,30	0,39	$\text{mg/l}$	105%
Nitrate	33,5	0,6	32,3	2,91	$\text{mg/l}$	96%
Nitrite	0,0240	0,0005	0,0245	0,002	$\text{mg/l}$	102%
Ammonium	<0,01		<0,0100		$\text{mg/l}$	•
Chloride	39,4	0,7	38,8	3,49	$\text{mg/l}$	98%
Sulphate	32,0	0,4	31,1	2,8	$\text{mg/l}$	97%
Orthophosphate	0,072	0,002	0,073	0,007	$\text{mg/l}$	101%
Boron	0,126	0,001	0,119	0,02	$\text{mg/l}$	94%
DOC	4,28	0,05	4,52	0,41	$\text{mg/l}$	106%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,215	0,09	$\text{mg/l}$	107%
Cyanide	0,0283	0,0016	0,0251	0,002	$\text{mg/l}$	89%



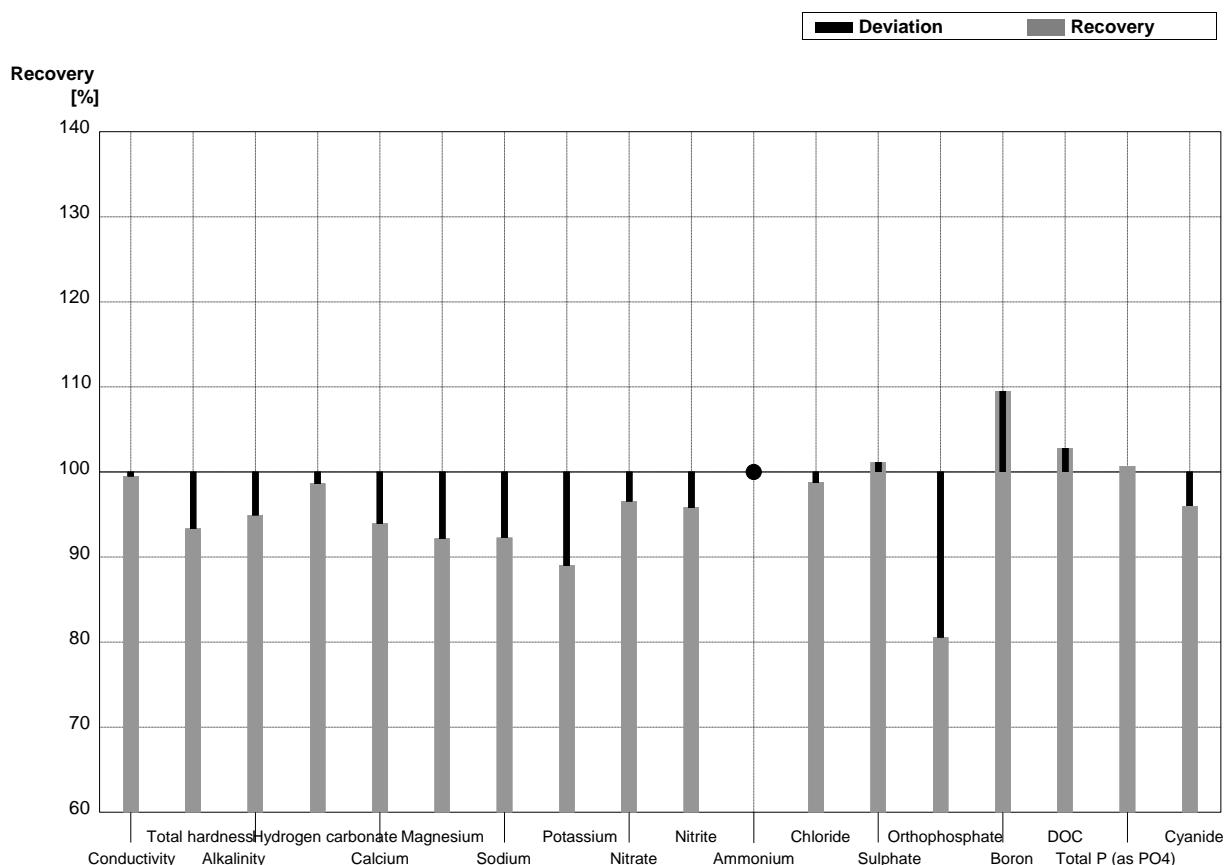
**Sample N153A**  
**Laboratory AK**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	719	28,8	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,80	0,03	2,55		$\text{mmol/l}$	91%
Alkalinity	2,99	0,03	2,80	0,42	$\text{mmol/l}$	94%
Hydrogen carbonate	179	2	170,8	25,63	$\text{mg/l}$	95%
Calcium	79,5	1,0	72,63	7,263	$\text{mg/l}$	91%
Magnesium	19,9	0,2	17,86	1,786	$\text{mg/l}$	90%
Sodium	29,2	0,4	26,74	2,674	$\text{mg/l}$	92%
Potassium	7,04	0,07	6,28	0,628	$\text{mg/l}$	89%
Nitrate	69,0	1,5	67,172	2,6869	$\text{mg/l}$	97%
Nitrite	0,075	0,001	0,069	0,0055	$\text{mg/l}$	92%
Ammonium	0,108	0,007	0,099	0,0099	$\text{mg/l}$	92%
Chloride	66,1	1,2	65,96	3,298	$\text{mg/l}$	100%
Sulphate	53,4	0,6	53,47	2,674	$\text{mg/l}$	100%
Orthophosphate	<0,009		<0,0061		$\text{mg/l}$	•
Boron	0,056	0,001	0,062	0,0074	$\text{mg/l}$	111%
DOC	3,04	0,04	3,20	0,26	$\text{mg/l}$	105%
Total P (as PO <sub>4</sub> )	<0,009		0,0184	0,0028	$\text{mg/l}$	FP
Cyanide	0,064	0,002	0,06174	0,00617	$\text{mg/l}$	96%



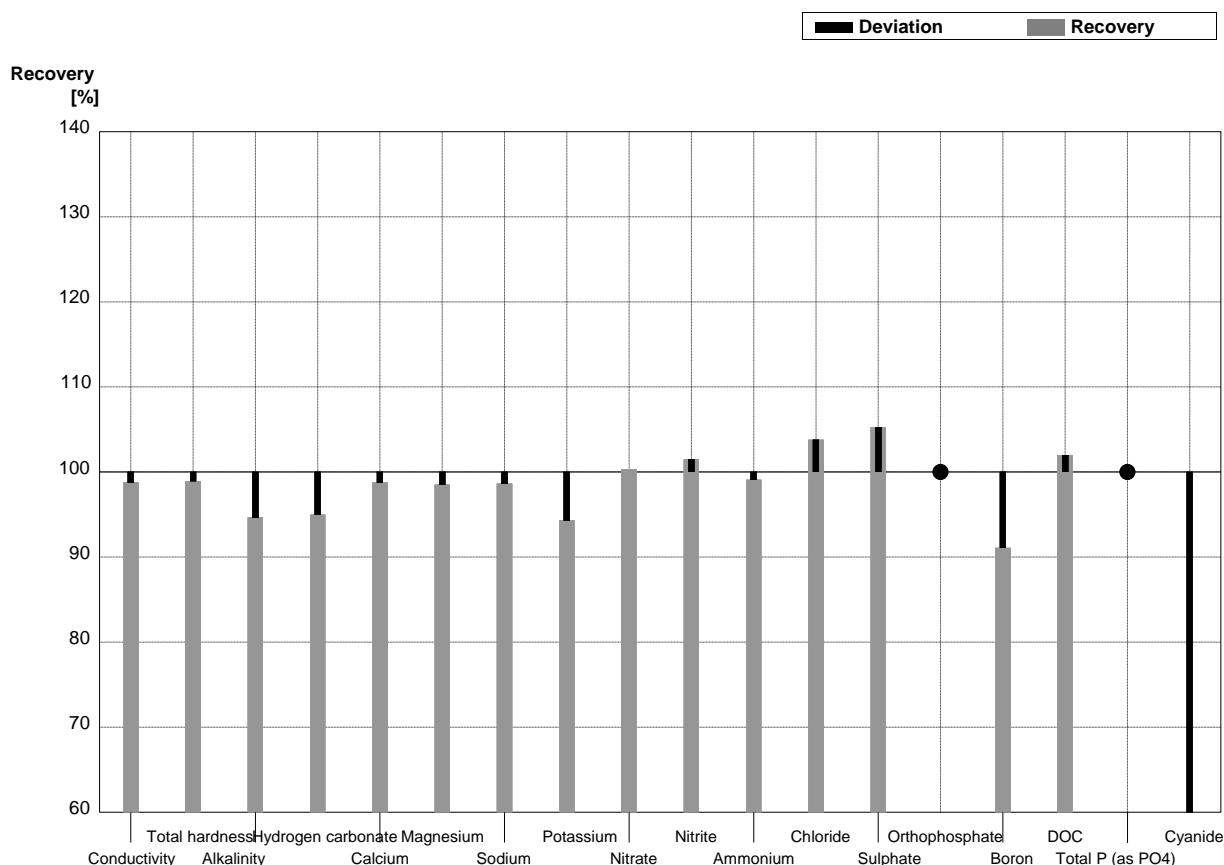
**Sample N153B**  
**Laboratory AK**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	393	15,7	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,35	0,01	1,26		$\text{mmol/l}$	93%
Alkalinity	1,38	0,01	1,31	0,197	$\text{mmol/l}$	95%
Hydrogen carbonate	81,0	0,5	79,9	11,99	$\text{mg/l}$	99%
Calcium	34,3	0,5	32,22	3,222	$\text{mg/l}$	94%
Magnesium	12,0	0,1	11,06	1,106	$\text{mg/l}$	92%
Sodium	20,4	0,1	18,82	1,882	$\text{mg/l}$	92%
Potassium	4,09	0,04	3,64	0,364	$\text{mg/l}$	89%
Nitrate	33,5	0,6	32,347	1,2939	$\text{mg/l}$	97%
Nitrite	0,0240	0,0005	0,0230	0,0018	$\text{mg/l}$	96%
Ammonium	<0,01		<0,0006		$\text{mg/l}$	•
Chloride	39,4	0,7	38,91	1,946	$\text{mg/l}$	99%
Sulphate	32,0	0,4	32,36	1,618	$\text{mg/l}$	101%
Orthophosphate	0,072	0,002	0,058	0,007	$\text{mg/l}$	81%
Boron	0,126	0,001	0,138	0,0166	$\text{mg/l}$	110%
DOC	4,28	0,05	4,40	0,35	$\text{mg/l}$	103%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,2024	0,0303	$\text{mg/l}$	101%
Cyanide	0,0283	0,0016	0,02717	0,00271	$\text{mg/l}$	96%



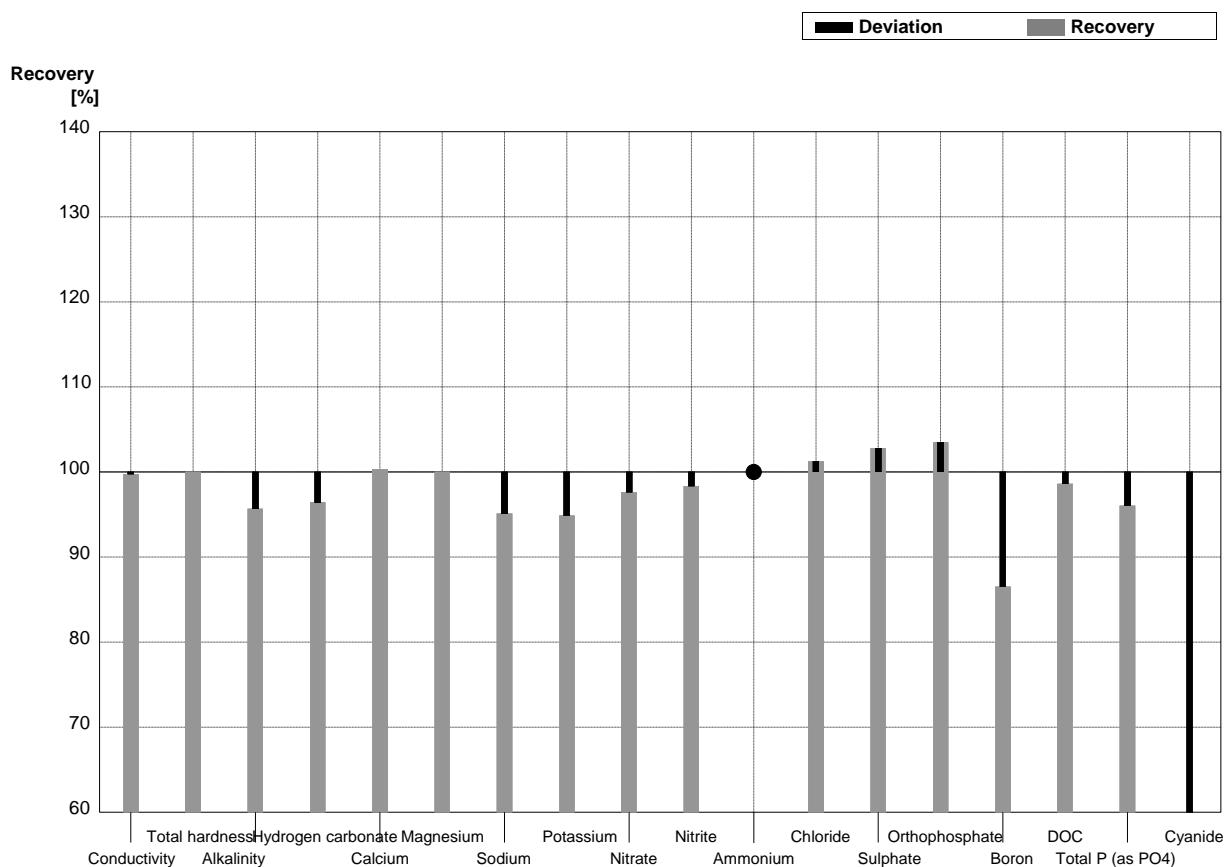
**Sample N153A**  
**Laboratory AL**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	712	2,000	$\mu\text{S}/\text{cm}$	99%
Total hardness	2,80	0,03	2,77	0,058	$\text{mmol/l}$	99%
Alkalinity	2,99	0,03	2,83	0,012	$\text{mmol/l}$	95%
Hydrogen carbonate	179	2	170	0,577	$\text{mg/l}$	95%
Calcium	79,5	1,0	78,5	1,611	$\text{mg/l}$	99%
Magnesium	19,9	0,2	19,6	0,637	$\text{mg/l}$	98%
Sodium	29,2	0,4	28,8	0,485	$\text{mg/l}$	99%
Potassium	7,04	0,07	6,64	0,024	$\text{mg/l}$	94%
Nitrate	69,0	1,5	69,2	1,485	$\text{mg/l}$	100%
Nitrite	0,075	0,001	0,0761	0,001	$\text{mg/l}$	101%
Ammonium	0,108	0,007	0,107	0,001	$\text{mg/l}$	99%
Chloride	66,1	1,2	68,6	1,626	$\text{mg/l}$	104%
Sulphate	53,4	0,6	56,2	1,322	$\text{mg/l}$	105%
Orthophosphate	<0,009		<0,015		$\text{mg/l}$	•
Boron	0,056	0,001	0,0510	0,001	$\text{mg/l}$	91%
DOC	3,04	0,04	3,10	0,140	$\text{mg/l}$	102%
Total P (as PO <sub>4</sub> )	<0,009		<0,015		$\text{mg/l}$	•
Cyanide	0,064	0,002	0,0234	0,001	$\text{mg/l}$	37%



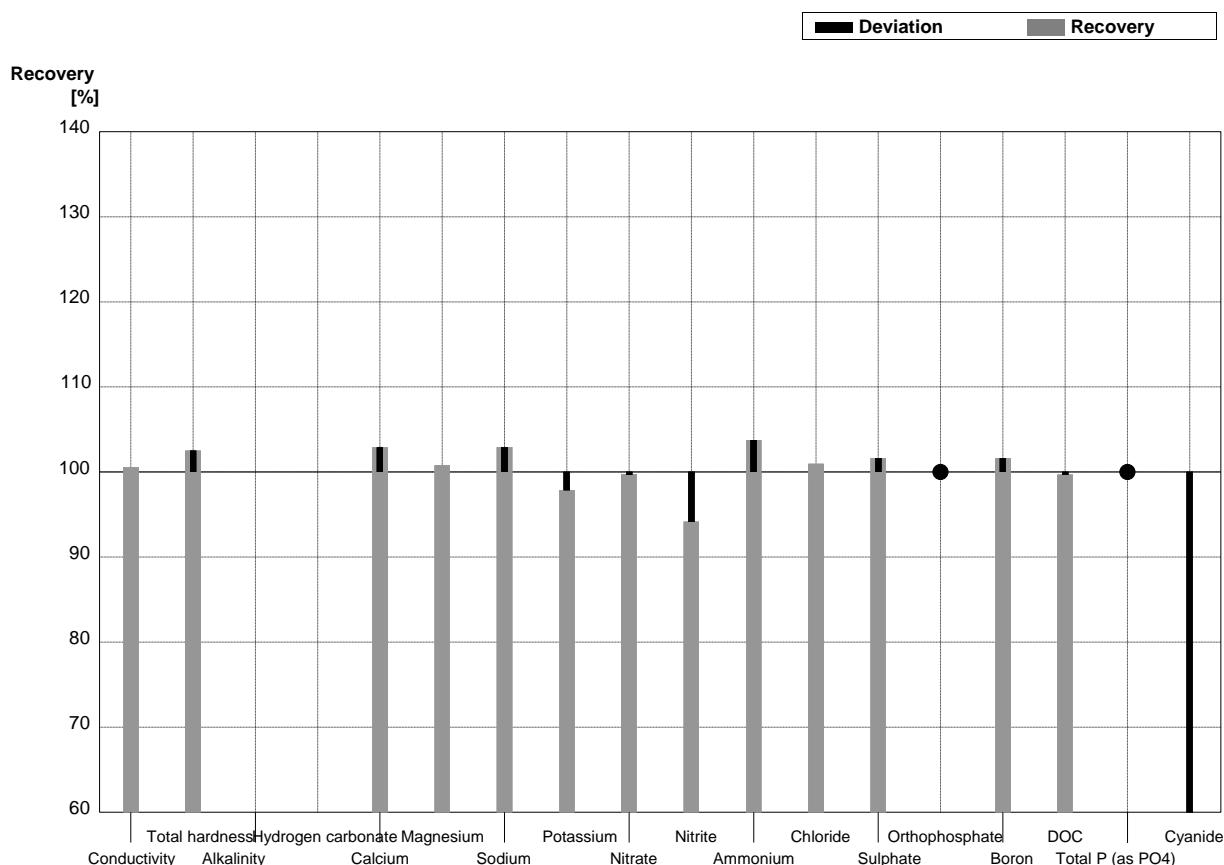
**Sample N153B**  
**Laboratory AL**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	394	1,000	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,35	0,01	1,35	0,029	$\text{mmol/l}$	100%
Alkalinity	1,38	0,01	1,32	0,006	$\text{mmol/l}$	96%
Hydrogen carbonate	81,0	0,5	78,1	0,173	$\text{mg/l}$	96%
Calcium	34,3	0,5	34,4	0,815	$\text{mg/l}$	100%
Magnesium	12,0	0,1	12,0	0,487	$\text{mg/l}$	100%
Sodium	20,4	0,1	19,4	0,378	$\text{mg/l}$	95%
Potassium	4,09	0,04	3,88	0,012	$\text{mg/l}$	95%
Nitrate	33,5	0,6	32,7	0,058	$\text{mg/l}$	98%
Nitrite	0,0240	0,0005	0,0236	0,001	$\text{mg/l}$	98%
Ammonium	<0,01		<0,010		$\text{mg/l}$	•
Chloride	39,4	0,7	39,9	0,058	$\text{mg/l}$	101%
Sulphate	32,0	0,4	32,9	0,058	$\text{mg/l}$	103%
Orthophosphate	0,072	0,002	0,0745	0,002	$\text{mg/l}$	103%
Boron	0,126	0,001	0,109	0,005	$\text{mg/l}$	87%
DOC	4,28	0,05	4,22	0,032	$\text{mg/l}$	99%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,193	0,001	$\text{mg/l}$	96%
Cyanide	0,0283	0,0016	0,00913	0,001	$\text{mg/l}$	32%



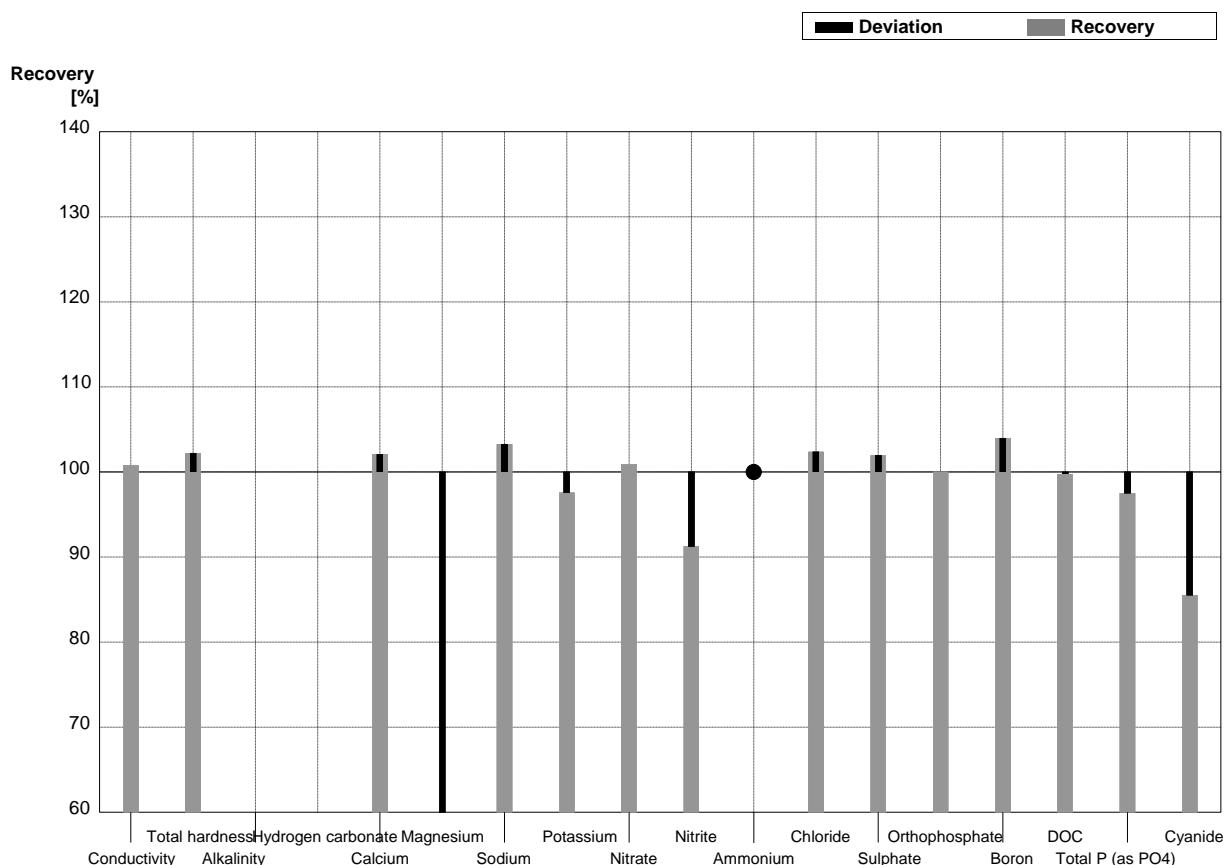
**Sample N153A**  
**Laboratory AM**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	725	22	µS/cm	101%
Total hardness	2,80	0,03	2,87	0,29	mmol/l	103%
Alkalinity	2,99	0,03			mmol/l	
Hydrogen carbonate	179	2			mg/l	
Calcium	79,5	1,0	81,78	8,18	mg/l	103%
Magnesium	19,9	0,2	20,05	12,27	mg/l	101%
Sodium	29,2	0,4	30,05	3,00	mg/l	103%
Potassium	7,04	0,07	6,89	1,03	mg/l	98%
Nitrate	69,0	1,5	68,80	3,44	mg/l	100%
Nitrite	0,075	0,001	0,0706	0,0071	mg/l	94%
Ammonium	0,108	0,007	0,112	0,022	mg/l	104%
Chloride	66,1	1,2	66,72	3,34	mg/l	101%
Sulphate	53,4	0,6	54,26	2,71	mg/l	102%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,056	0,001	0,0569	0,0057	mg/l	102%
DOC	3,04	0,04	3,03	0,30	mg/l	100%
Total P (as PO4)	<0,009		<0,015		mg/l	•
Cyanide	0,064	0,002	0,0354	0,0106	mg/l	55%



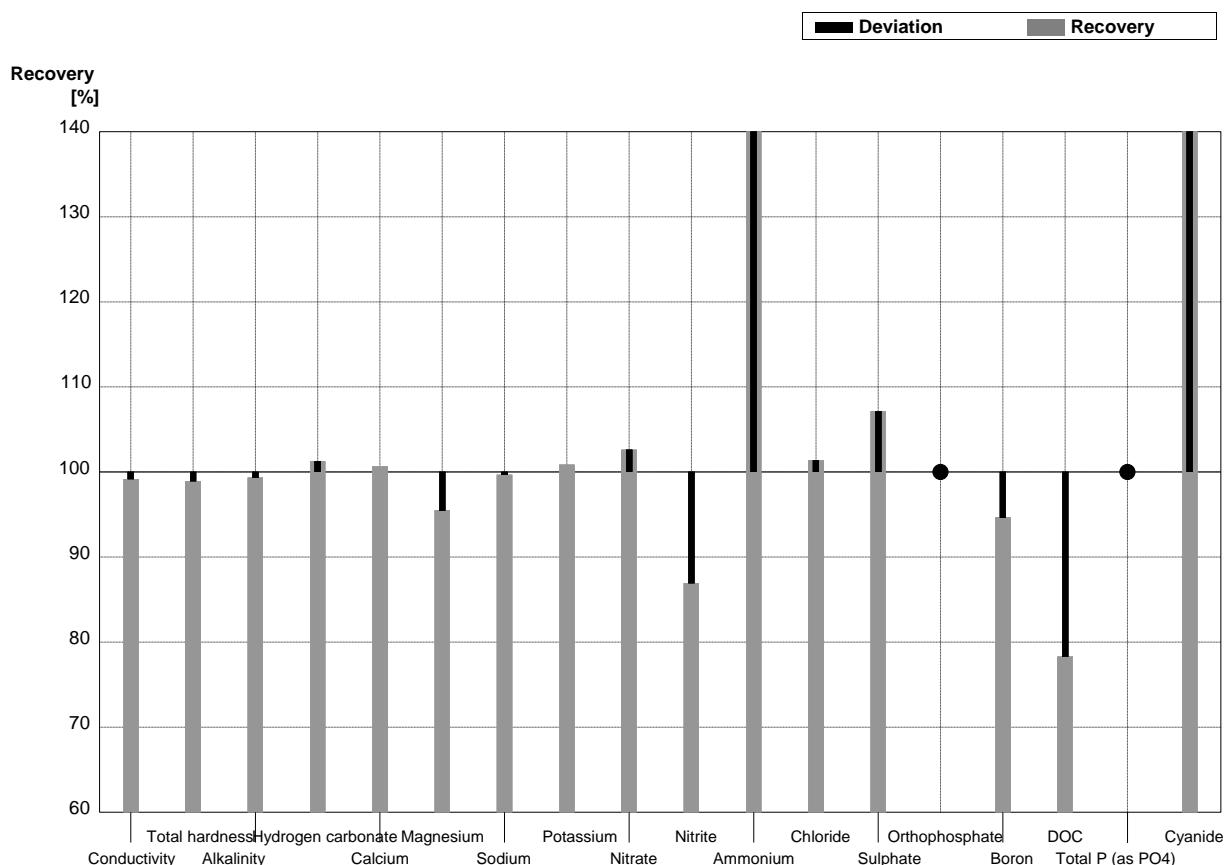
**Sample N153B**  
**Laboratory AM**

Parameter	Target value	$\pm$ U (k=2)	Result	$\pm$	Unit	Recovery
Conductivity	395	1	398	12	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01	1,38	0,14	mmol/l	102%
Alkalinity	1,38	0,01			mmol/l	
Hydrogen carbonate	81,0	0,5			mg/l	
Calcium	34,3	0,5	35,01	3,50	mg/l	102%
Magnesium	12,0	0,1	2,00	1,23	mg/l	17%
Sodium	20,4	0,1	21,06	2,11	mg/l	103%
Potassium	4,09	0,04	3,99	0,60	mg/l	98%
Nitrate	33,5	0,6	33,81	1,69	mg/l	101%
Nitrite	0,0240	0,0005	0,0219	0,0022	mg/l	91%
Ammonium	<0,01		<0,013		mg/l	•
Chloride	39,4	0,7	40,33	2,02	mg/l	102%
Sulphate	32,0	0,4	32,62	1,63	mg/l	102%
Orthophosphate	0,072	0,002	0,072	0,014	mg/l	100%
Boron	0,126	0,001	0,131	0,0131	mg/l	104%
DOC	4,28	0,05	4,27	0,43	mg/l	100%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,196	0,039	mg/l	98%
Cyanide	0,0283	0,0016	0,0242	0,0073	mg/l	86%



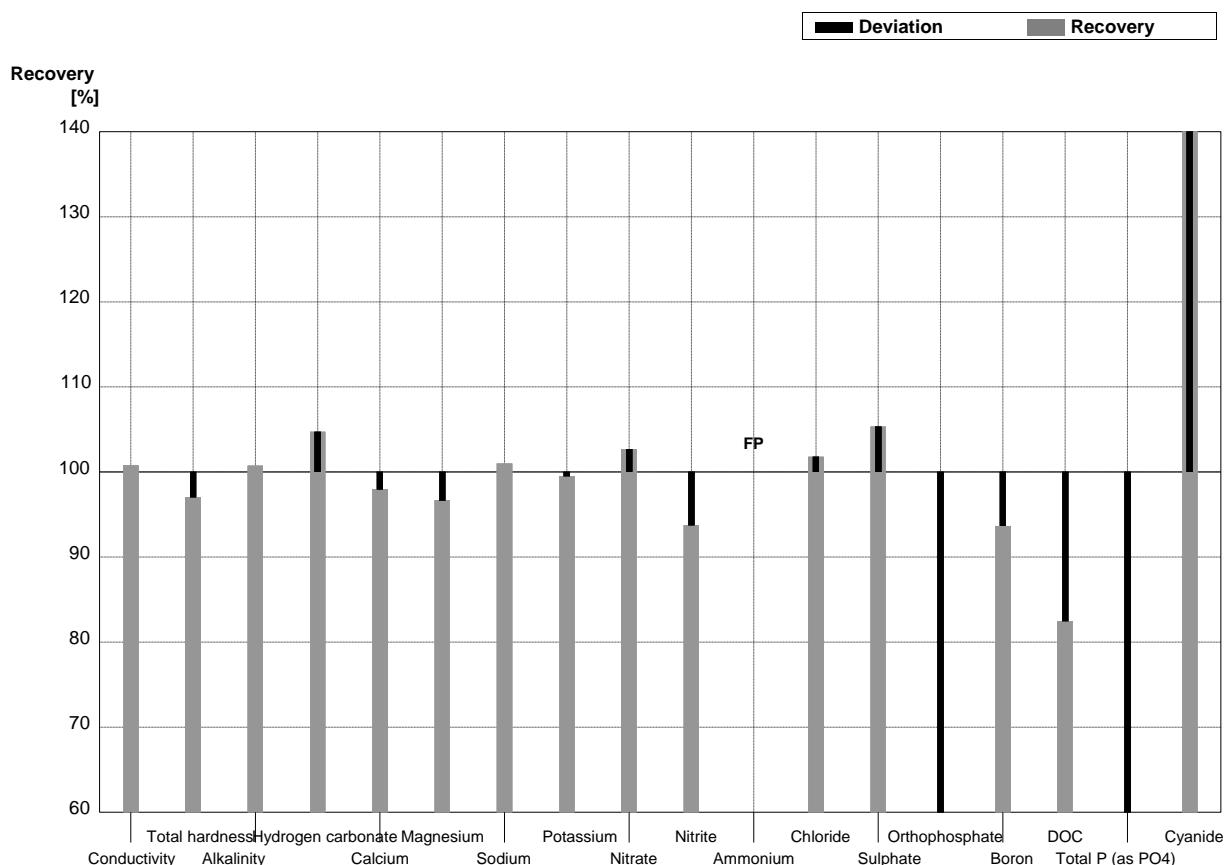
**Sample N153A**  
**Laboratory AN**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	715	35	$\mu\text{S}/\text{cm}$	99%
Total hardness	2,80	0,03	2,77	0,23	$\text{mmol/l}$	99%
Alkalinity	2,99	0,03	2,97	0,22	$\text{mmol/l}$	99%
Hydrogen carbonate	179	2	181,22	13,86	$\text{mg/l}$	101%
Calcium	79,5	1,0	80	4	$\text{mg/l}$	101%
Magnesium	19,9	0,2	19,0	1	$\text{mg/l}$	95%
Sodium	29,2	0,4	29,1	2,5	$\text{mg/l}$	100%
Potassium	7,04	0,07	7,1	0,6	$\text{mg/l}$	101%
Nitrate	69,0	1,5	70,8	4,1	$\text{mg/l}$	103%
Nitrite	0,075	0,001	0,0652	0,00326	$\text{mg/l}$	87%
Ammonium	0,108	0,007	0,161	0,029	$\text{mg/l}$	149%
Chloride	66,1	1,2	67,02	3,64	$\text{mg/l}$	101%
Sulphate	53,4	0,6	57,2	3,6	$\text{mg/l}$	107%
Orthophosphate	<0,009		<0,005		$\text{mg/l}$	•
Boron	0,056	0,001	0,053	0,001	$\text{mg/l}$	95%
DOC	3,04	0,04	2,38	0,36	$\text{mg/l}$	78%
Total P (as PO <sub>4</sub> )	<0,009		<0,005		$\text{mg/l}$	•
Cyanide	0,064	0,002	65,5	11	$\text{mg/l}$	102344%



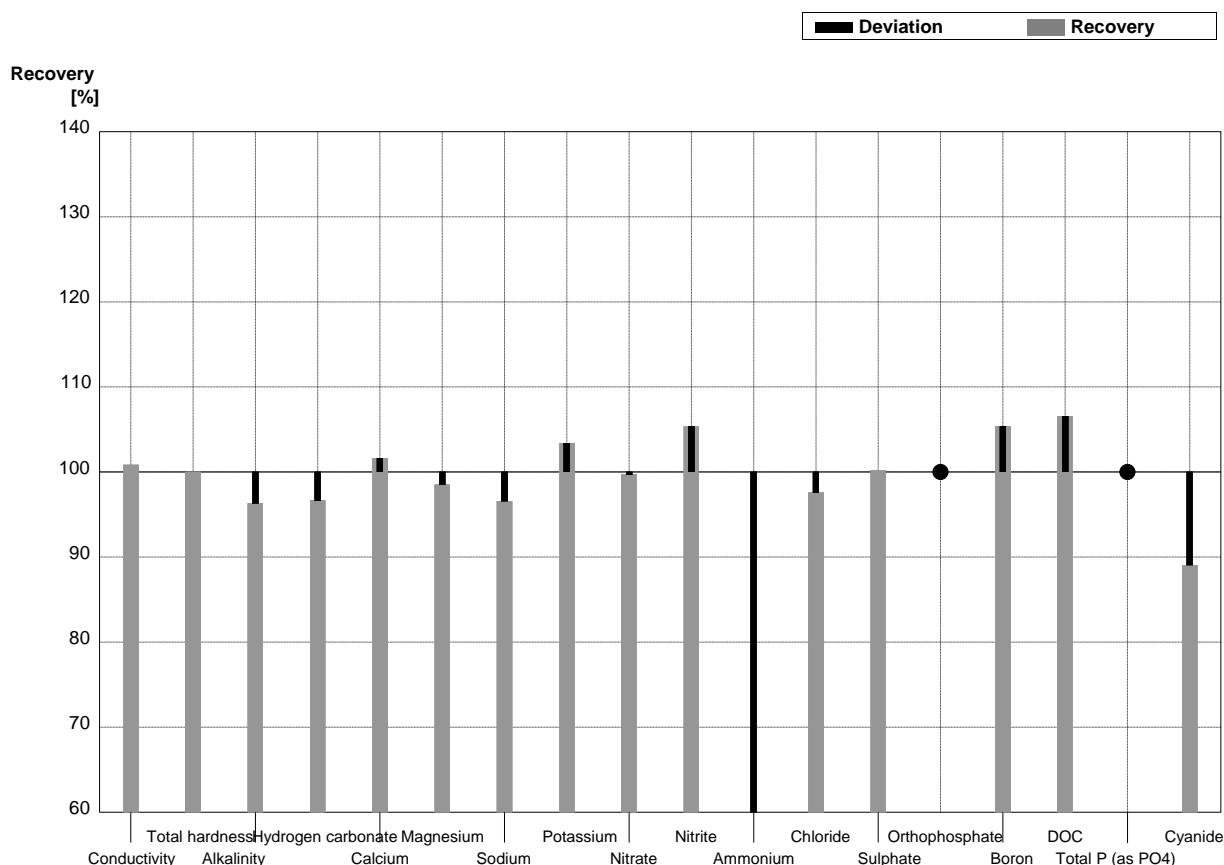
**Sample N153B**  
**Laboratory AN**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	398	19,9	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01	1,31	0,11	$\text{mmol/l}$	97%
Alkalinity	1,38	0,01	1,39	0,1	$\text{mmol/l}$	101%
Hydrogen carbonate	81,0	0,5	84,81	6,49	$\text{mg/l}$	105%
Calcium	34,3	0,5	33,6	1,8	$\text{mg/l}$	98%
Magnesium	12,0	0,1	11,6	0,6	$\text{mg/l}$	97%
Sodium	20,4	0,1	20,6	1,8	$\text{mg/l}$	101%
Potassium	4,09	0,04	4,07	0,30	$\text{mg/l}$	100%
Nitrate	33,5	0,6	34,4	2,0	$\text{mg/l}$	103%
Nitrite	0,0240	0,0005	0,0225	0,00113	$\text{mg/l}$	94%
Ammonium	<0,01		0,092	0,017	$\text{mg/l}$	FP
Chloride	39,4	0,7	40,1	2,2	$\text{mg/l}$	102%
Sulphate	32,0	0,4	33,7	2,1	$\text{mg/l}$	105%
Orthophosphate	0,072	0,002	0,0090	0,0018	$\text{mg/l}$	13%
Boron	0,126	0,001	0,118	0,002	$\text{mg/l}$	94%
DOC	4,28	0,05	3,53	0,53	$\text{mg/l}$	82%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,062	0,009	$\text{mg/l}$	31%
Cyanide	0,0283	0,0016	29,8	5,0	$\text{mg/l}$	105300%



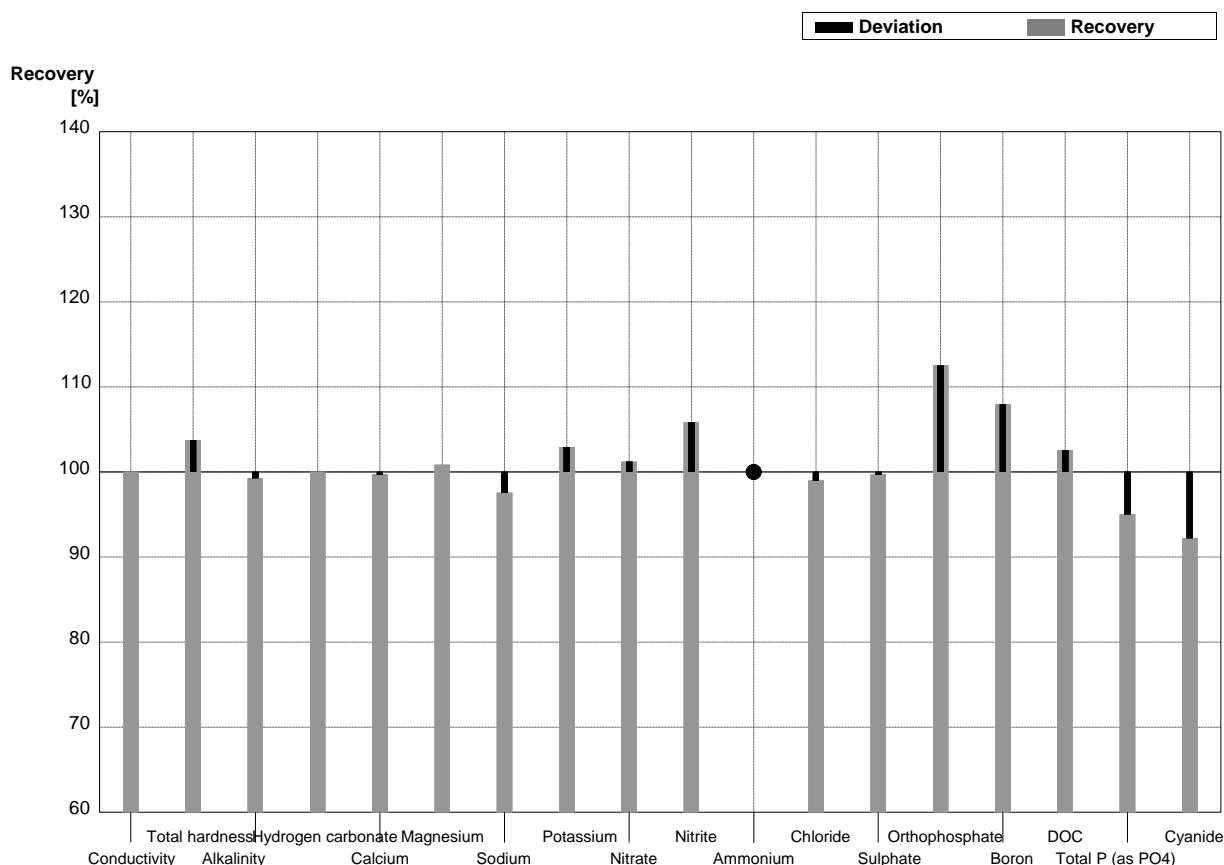
**Sample N153A**  
**Laboratory AO**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	727	18,1	$\mu\text{S}/\text{cm}$	101%
Total hardness	2,80	0,03	2,80	0,28	$\text{mmol/l}$	100%
Alkalinity	2,99	0,03	2,88	0,07	$\text{mmol/l}$	96%
Hydrogen carbonate	179	2	173	4,3	$\text{mg/l}$	97%
Calcium	79,5	1,0	80,8	8,1	$\text{mg/l}$	102%
Magnesium	19,9	0,2	19,6	2,0	$\text{mg/l}$	98%
Sodium	29,2	0,4	28,2	3,0	$\text{mg/l}$	97%
Potassium	7,04	0,07	7,28	0,7	$\text{mg/l}$	103%
Nitrate	69,0	1,5	68,8	7,0	$\text{mg/l}$	100%
Nitrite	0,075	0,001	0,079	0,0008	$\text{mg/l}$	105%
Ammonium	0,108	0,007	0,0112	0,001	$\text{mg/l}$	10%
Chloride	66,1	1,2	64,5	6,4	$\text{mg/l}$	98%
Sulphate	53,4	0,6	53,5	5,3	$\text{mg/l}$	100%
Orthophosphate	<0,009		<0,02		$\text{mg/l}$	•
Boron	0,056	0,001	0,059	0,006	$\text{mg/l}$	105%
DOC	3,04	0,04	3,24	0,32	$\text{mg/l}$	107%
Total P (as PO <sub>4</sub> )	<0,009		<0,05		$\text{mg/l}$	•
Cyanide	0,064	0,002	0,057	0,006	$\text{mg/l}$	89%



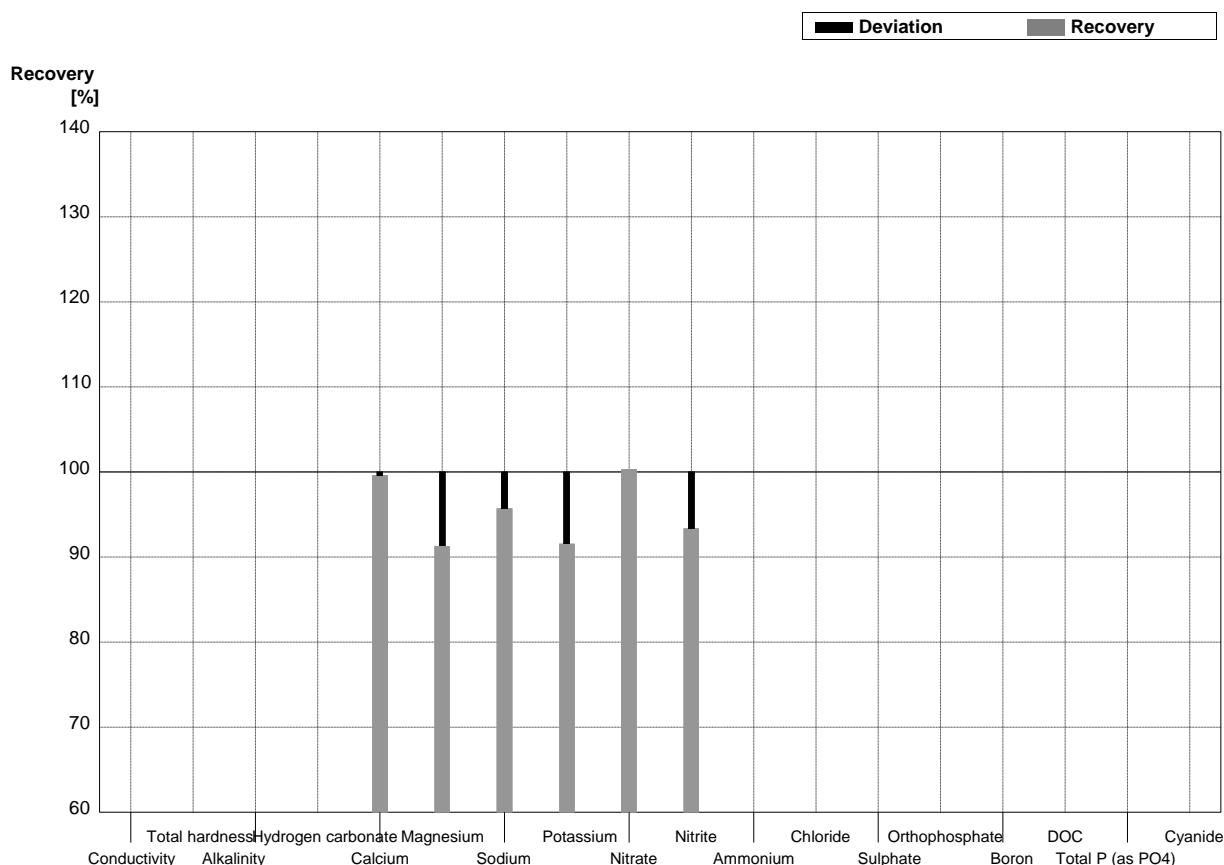
**Sample N153B**  
**Laboratory AO**

Parameter	Target value	$\pm$ U (k=2)	Result	$\pm$	Unit	Recovery
Conductivity	395	1	395	9,9	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,35	0,01	1,40	0,14	mmol/l	104%
Alkalinity	1,38	0,01	1,37	0,03	mmol/l	99%
Hydrogen carbonate	81,0	0,5	81	2,0	mg/l	100%
Calcium	34,3	0,5	34,2	3,4	mg/l	100%
Magnesium	12,0	0,1	12,1	1,2	mg/l	101%
Sodium	20,4	0,1	19,9	2,0	mg/l	98%
Potassium	4,09	0,04	4,21	0,4	mg/l	103%
Nitrate	33,5	0,6	33,9	3,4	mg/l	101%
Nitrite	0,0240	0,0005	0,0254	0,0025	mg/l	106%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	39,4	0,7	39,0	3,9	mg/l	99%
Sulphate	32,0	0,4	31,9	3,2	mg/l	100%
Orthophosphate	0,072	0,002	0,081	0,008	mg/l	113%
Boron	0,126	0,001	0,136	0,013	mg/l	108%
DOC	4,28	0,05	4,39	0,44	mg/l	103%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,191	0,002	mg/l	95%
Cyanide	0,0283	0,0016	0,0261	0,003	mg/l	92%



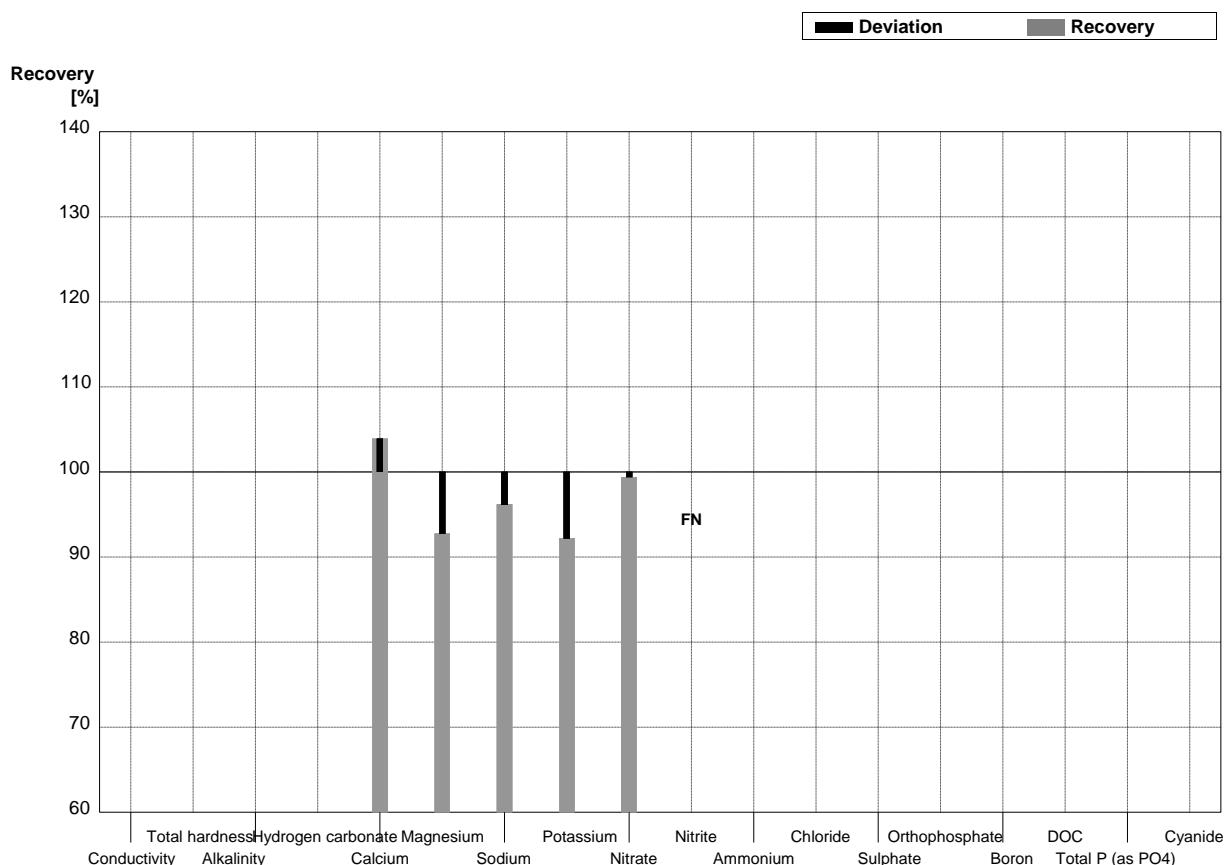
**Sample N153A**  
**Laboratory AP**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2			µS/cm	
Total hardness	2,80	0,03			mmol/l	
Alkalinity	2,99	0,03			mmol/l	
Hydrogen carbonate	179	2			mg/l	
Calcium	79,5	1,0	79,16	1,70	mg/l	100%
Magnesium	19,9	0,2	18,17	0,30	mg/l	91%
Sodium	29,2	0,4	27,94	0,31	mg/l	96%
Potassium	7,04	0,07	6,444	0,072	mg/l	92%
Nitrate	69,0	1,5	69,2		mg/l	100%
Nitrite	0,075	0,001	0,070		mg/l	93%
Ammonium	0,108	0,007			mg/l	
Chloride	66,1	1,2			mg/l	
Sulphate	53,4	0,6			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04			mg/l	
Total P (as PO <sub>4</sub> )	<0,009				mg/l	
Cyanide	0,064	0,002			mg/l	



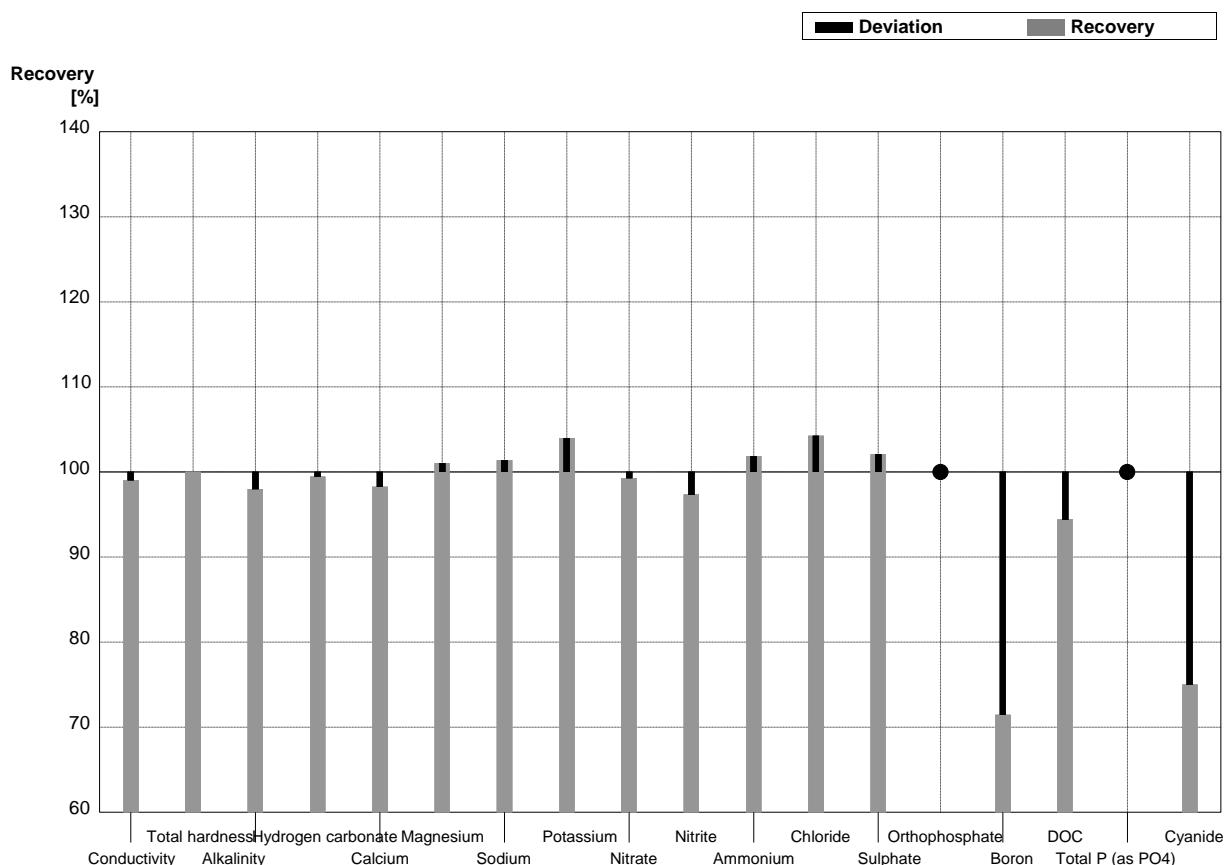
**Sample N153B**  
**Laboratory AP**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,35	0,01			$\text{mmol/l}$	
Alkalinity	1,38	0,01			$\text{mmol/l}$	
Hydrogen carbonate	81,0	0,5			$\text{mg/l}$	
Calcium	34,3	0,5	35,64	0,97	$\text{mg/l}$	104%
Magnesium	12,0	0,1	11,13	0,18	$\text{mg/l}$	93%
Sodium	20,4	0,1	19,62	0,22	$\text{mg/l}$	96%
Potassium	4,09	0,04	3,771	0,038	$\text{mg/l}$	92%
Nitrate	33,5	0,6	33,3		$\text{mg/l}$	99%
Nitrite	0,0240	0,0005	<0,02		$\text{mg/l}$	FN
Ammonium	<0,01				$\text{mg/l}$	
Chloride	39,4	0,7			$\text{mg/l}$	
Sulphate	32,0	0,4			$\text{mg/l}$	
Orthophosphate	0,072	0,002			$\text{mg/l}$	
Boron	0,126	0,001			$\text{mg/l}$	
DOC	4,28	0,05			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,201	0,003			$\text{mg/l}$	
Cyanide	0,0283	0,0016			$\text{mg/l}$	



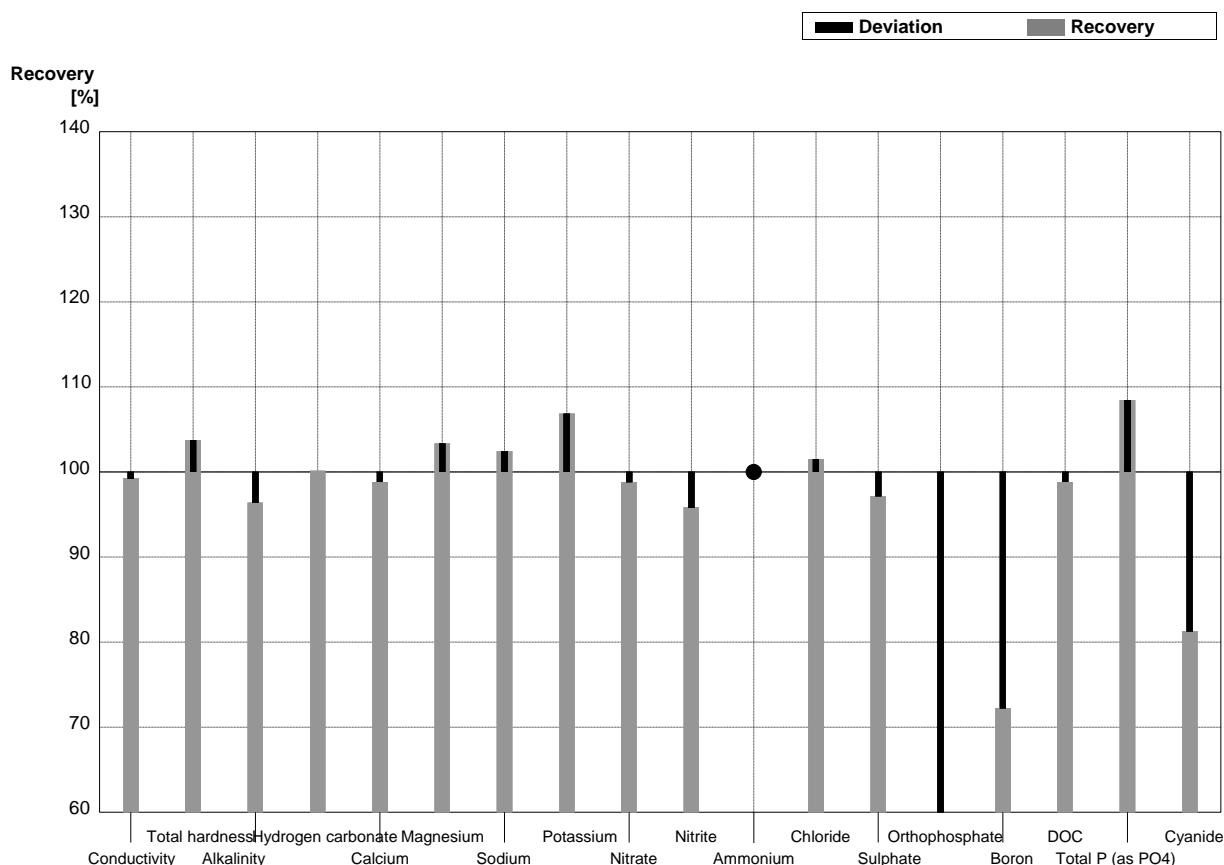
**Sample N153A**  
**Laboratory AQ**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	714	31,4	$\mu\text{S}/\text{cm}$	99%
Total hardness	2,80	0,03	2,80	0,34	$\text{mmol/l}$	100%
Alkalinity	2,99	0,03	2,93	0,12	$\text{mmol/l}$	98%
Hydrogen carbonate	179	2	178	7,83	$\text{mg/l}$	99%
Calcium	79,5	1,0	78,1	10,2	$\text{mg/l}$	98%
Magnesium	19,9	0,2	20,1	2,4	$\text{mg/l}$	101%
Sodium	29,2	0,4	29,6	3,6	$\text{mg/l}$	101%
Potassium	7,04	0,07	7,32	1,2	$\text{mg/l}$	104%
Nitrate	69,0	1,5	68,5	7,1	$\text{mg/l}$	99%
Nitrite	0,075	0,001	0,073	0,003	$\text{mg/l}$	97%
Ammonium	0,108	0,007	0,110	0,013	$\text{mg/l}$	102%
Chloride	66,1	1,2	68,9	8,6	$\text{mg/l}$	104%
Sulphate	53,4	0,6	54,5	3,0	$\text{mg/l}$	102%
Orthophosphate	<0,009		0,00310	0,0004	$\text{mg/l}$	•
Boron	0,056	0,001	0,0400	0,005	$\text{mg/l}$	71%
DOC	3,04	0,04	2,87	0,5	$\text{mg/l}$	94%
Total P (as PO <sub>4</sub> )	<0,009		'0,00920	0,001	$\text{mg/l}$	•
Cyanide	0,064	0,002	0,0480	0,009	$\text{mg/l}$	75%



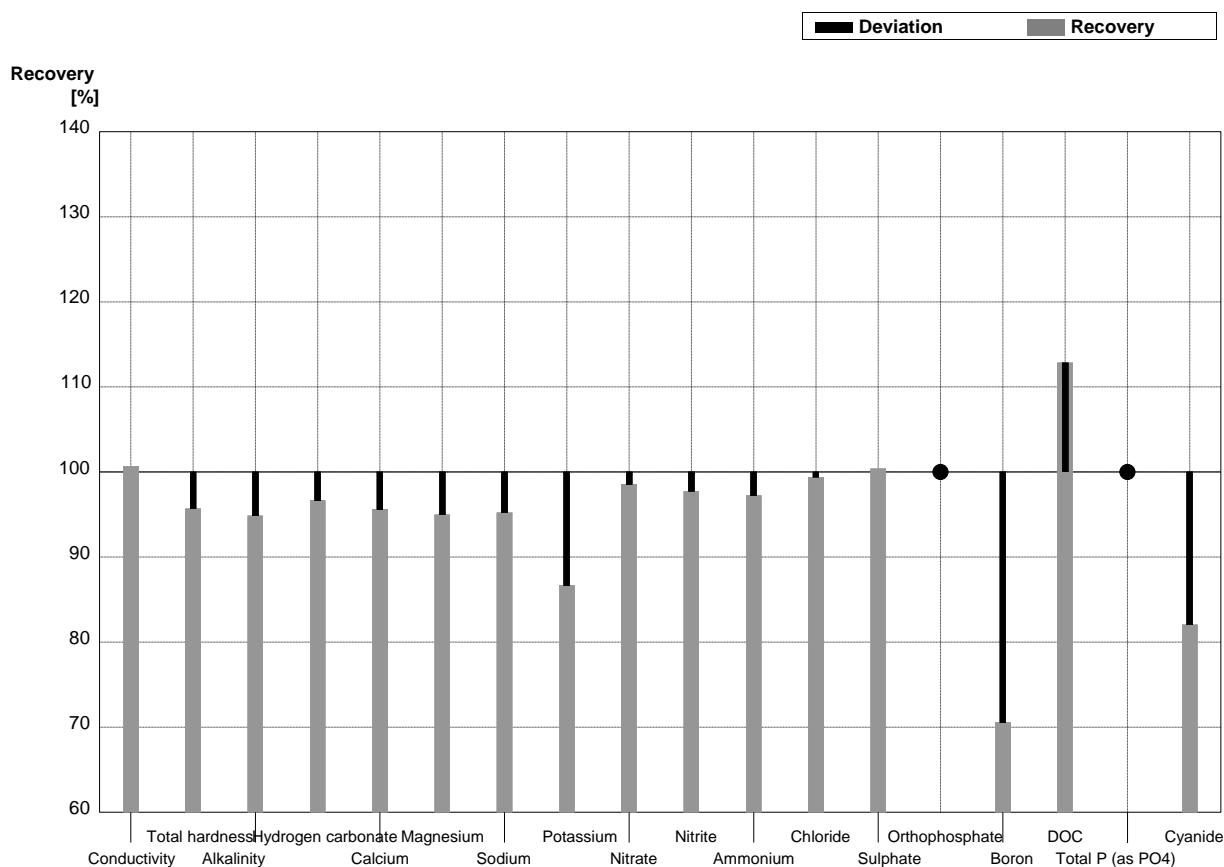
**Sample N153B**  
**Laboratory AQ**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	392	17,2	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,35	0,01	1,40	0,17	$\text{mmol/l}$	104%
Alkalinity	1,38	0,01	1,33	0,06	$\text{mmol/l}$	96%
Hydrogen carbonate	81,0	0,5	81,1	3,6	$\text{mg/l}$	100%
Calcium	34,3	0,5	33,9	4,41	$\text{mg/l}$	99%
Magnesium	12,0	0,1	12,4	1,5	$\text{mg/l}$	103%
Sodium	20,4	0,1	20,9	2,5	$\text{mg/l}$	102%
Potassium	4,09	0,04	4,37	0,74	$\text{mg/l}$	107%
Nitrate	33,5	0,6	33,1	3,4	$\text{mg/l}$	99%
Nitrite	0,0240	0,0005	0,0230	0,0009	$\text{mg/l}$	96%
Ammonium	<0,01		<0,01		$\text{mg/l}$	•
Chloride	39,4	0,7	40,0	5,2	$\text{mg/l}$	102%
Sulphate	32,0	0,4	31,09	1,7	$\text{mg/l}$	97%
Orthophosphate	0,072	0,002	0,0240	0,003	$\text{mg/l}$	33%
Boron	0,126	0,001	0,0910	0,01	$\text{mg/l}$	72%
DOC	4,28	0,05	4,23	0,72	$\text{mg/l}$	99%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,218	0,03	$\text{mg/l}$	108%
Cyanide	0,0283	0,0016	0,0230	0,004	$\text{mg/l}$	81%



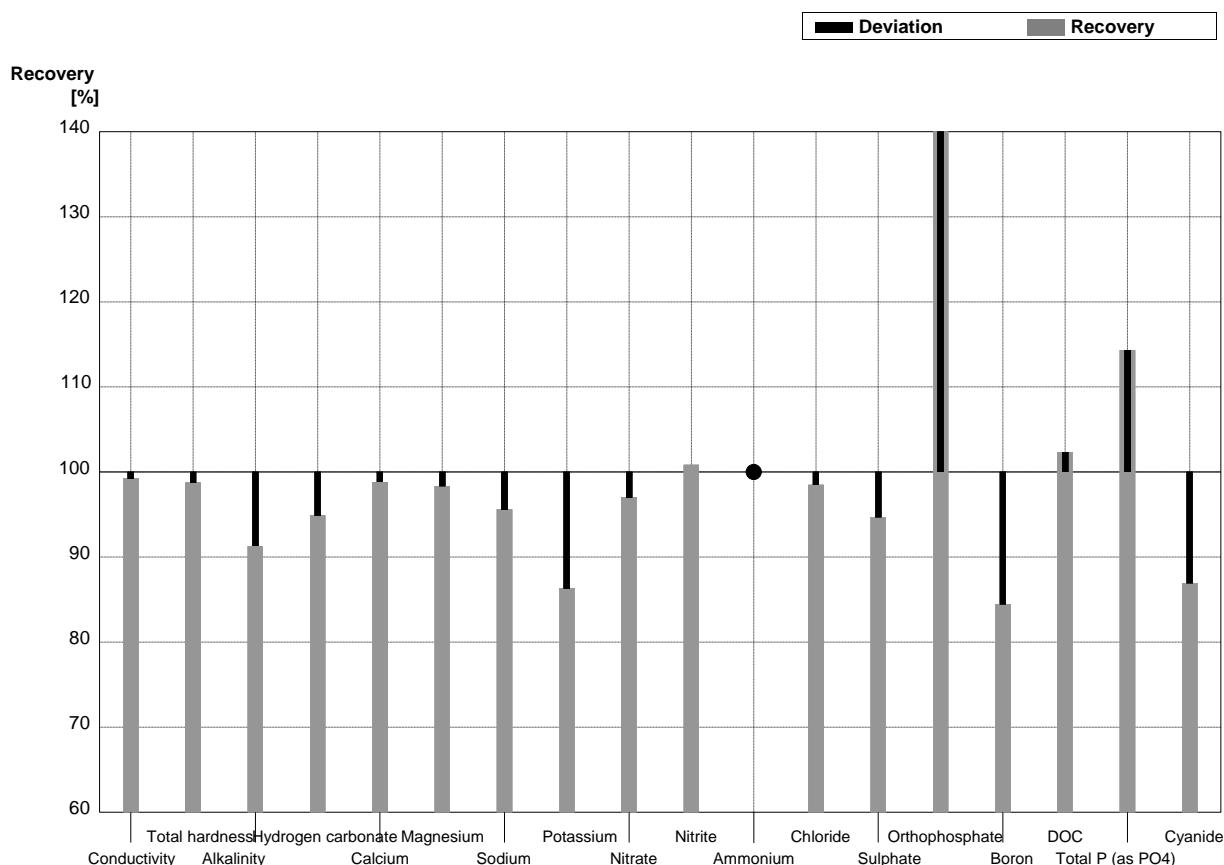
**Sample N153A**  
**Laboratory AR**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2	726		µS/cm	101%
Total hardness	2,80	0,03	2,679		mmol/l	96%
Alkalinity	2,99	0,03	2,836		mmol/l	95%
Hydrogen carbonate	179	2	173		mg/l	97%
Calcium	79,5	1,0	76,0		mg/l	96%
Magnesium	19,9	0,2	18,9		mg/l	95%
Sodium	29,2	0,4	27,8		mg/l	95%
Potassium	7,04	0,07	6,10		mg/l	87%
Nitrate	69,0	1,5	68,0		mg/l	99%
Nitrite	0,075	0,001	0,07330		mg/l	98%
Ammonium	0,108	0,007	0,1050		mg/l	97%
Chloride	66,1	1,2	65,7		mg/l	99%
Sulphate	53,4	0,6	53,6		mg/l	100%
Orthophosphate	<0,009		0,00554		mg/l	•
Boron	0,056	0,001	0,0395		mg/l	71%
DOC	3,04	0,04	3,43		mg/l	113%
Total P (as PO4)	<0,009		0,00554		mg/l	•
Cyanide	0,064	0,002	0,05250		mg/l	82%



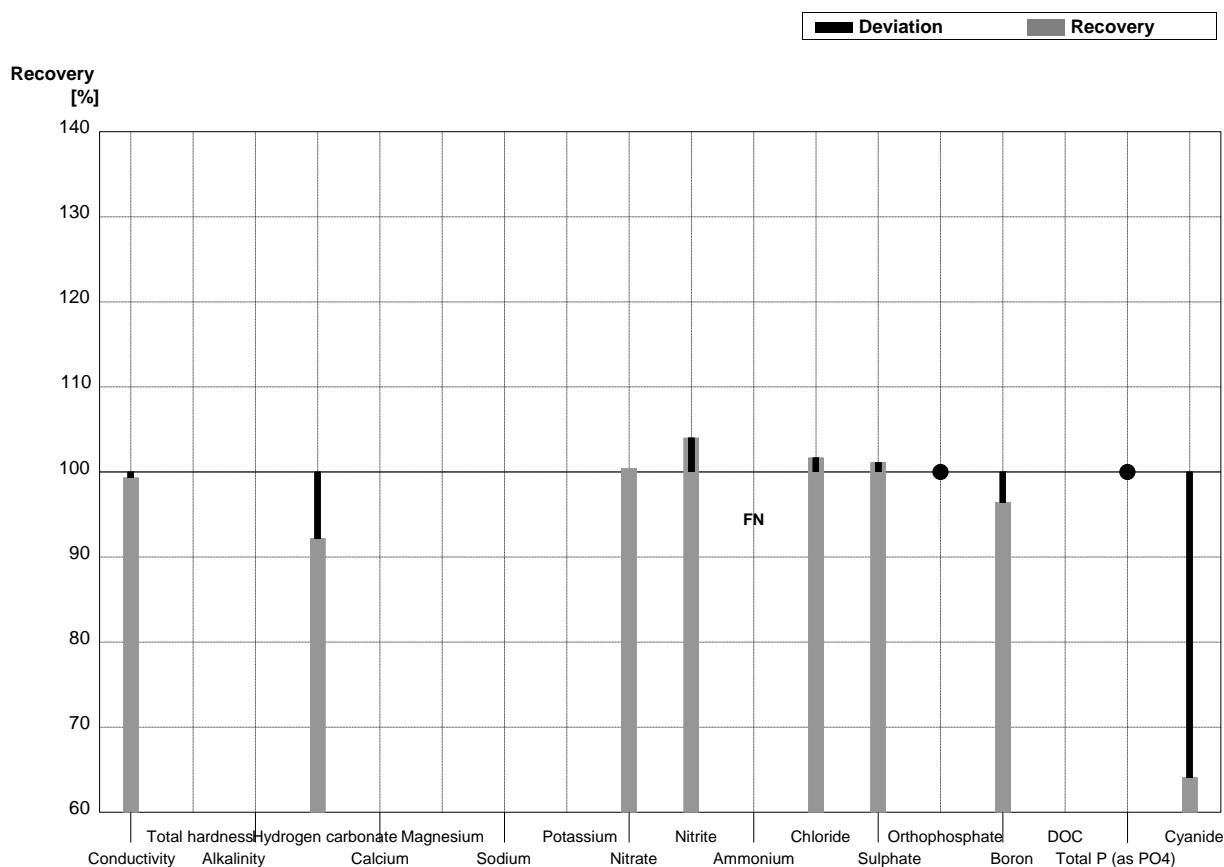
**Sample N153B**  
**Laboratory AR**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	392		$\mu\text{S}/\text{cm}$	99%
Total hardness	1,35	0,01	1,333		$\text{mmol/l}$	99%
Alkalinity	1,38	0,01	1,260		$\text{mmol/l}$	91%
Hydrogen carbonate	81,0	0,5	76,86		$\text{mg/l}$	95%
Calcium	34,3	0,5	33,9		$\text{mg/l}$	99%
Magnesium	12,0	0,1	11,8		$\text{mg/l}$	98%
Sodium	20,4	0,1	19,5		$\text{mg/l}$	96%
Potassium	4,09	0,04	3,53		$\text{mg/l}$	86%
Nitrate	33,5	0,6	32,5		$\text{mg/l}$	97%
Nitrite	0,0240	0,0005	0,02420		$\text{mg/l}$	101%
Ammonium	<0,01		0,0080		$\text{mg/l}$	•
Chloride	39,4	0,7	38,8		$\text{mg/l}$	98%
Sulphate	32,0	0,4	30,3		$\text{mg/l}$	95%
Orthophosphate	0,072	0,002	0,22980		$\text{mg/l}$	319%
Boron	0,126	0,001	0,1064		$\text{mg/l}$	84%
DOC	4,28	0,05	4,38		$\text{mg/l}$	102%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,22980		$\text{mg/l}$	114%
Cyanide	0,0283	0,0016	0,02460		$\text{mg/l}$	87%



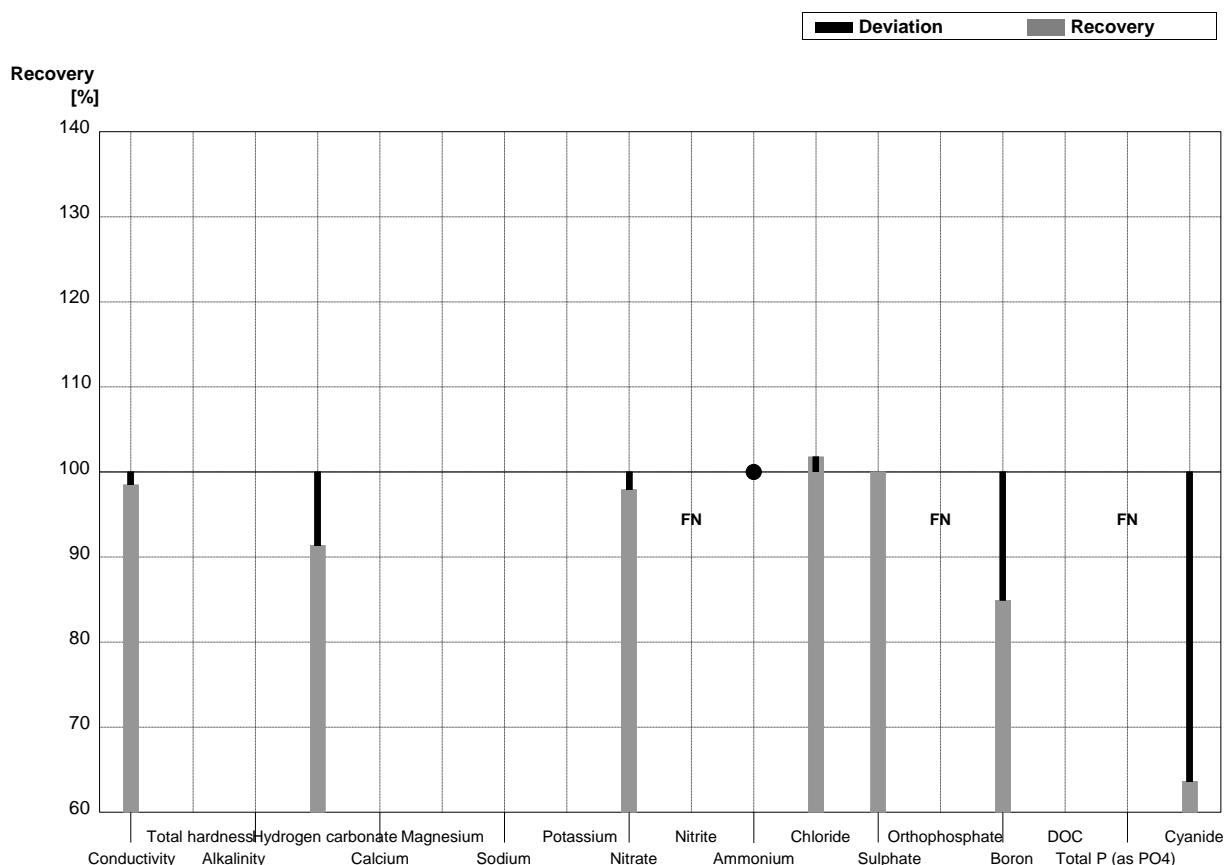
**Sample N153A**  
**Laboratory AS**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	716		$\mu\text{S}/\text{cm}$	99%
Total hardness	2,80	0,03			$\text{mmol/l}$	
Alkalinity	2,99	0,03			$\text{mmol/l}$	
Hydrogen carbonate	179	2	165		$\text{mg/l}$	92%
Calcium	79,5	1,0			$\text{mg/l}$	
Magnesium	19,9	0,2			$\text{mg/l}$	
Sodium	29,2	0,4			$\text{mg/l}$	
Potassium	7,04	0,07			$\text{mg/l}$	
Nitrate	69,0	1,5	69,3		$\text{mg/l}$	100%
Nitrite	0,075	0,001	0,078		$\text{mg/l}$	104%
Ammonium	0,108	0,007	<0,1		$\text{mg/l}$	FN
Chloride	66,1	1,2	67,2		$\text{mg/l}$	102%
Sulphate	53,4	0,6	54,0		$\text{mg/l}$	101%
Orthophosphate	<0,009		<0,05		$\text{mg/l}$	•
Boron	0,056	0,001	0,054		$\text{mg/l}$	96%
DOC	3,04	0,04			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009		<0,05		$\text{mg/l}$	•
Cyanide	0,064	0,002	0,0410		$\text{mg/l}$	64%



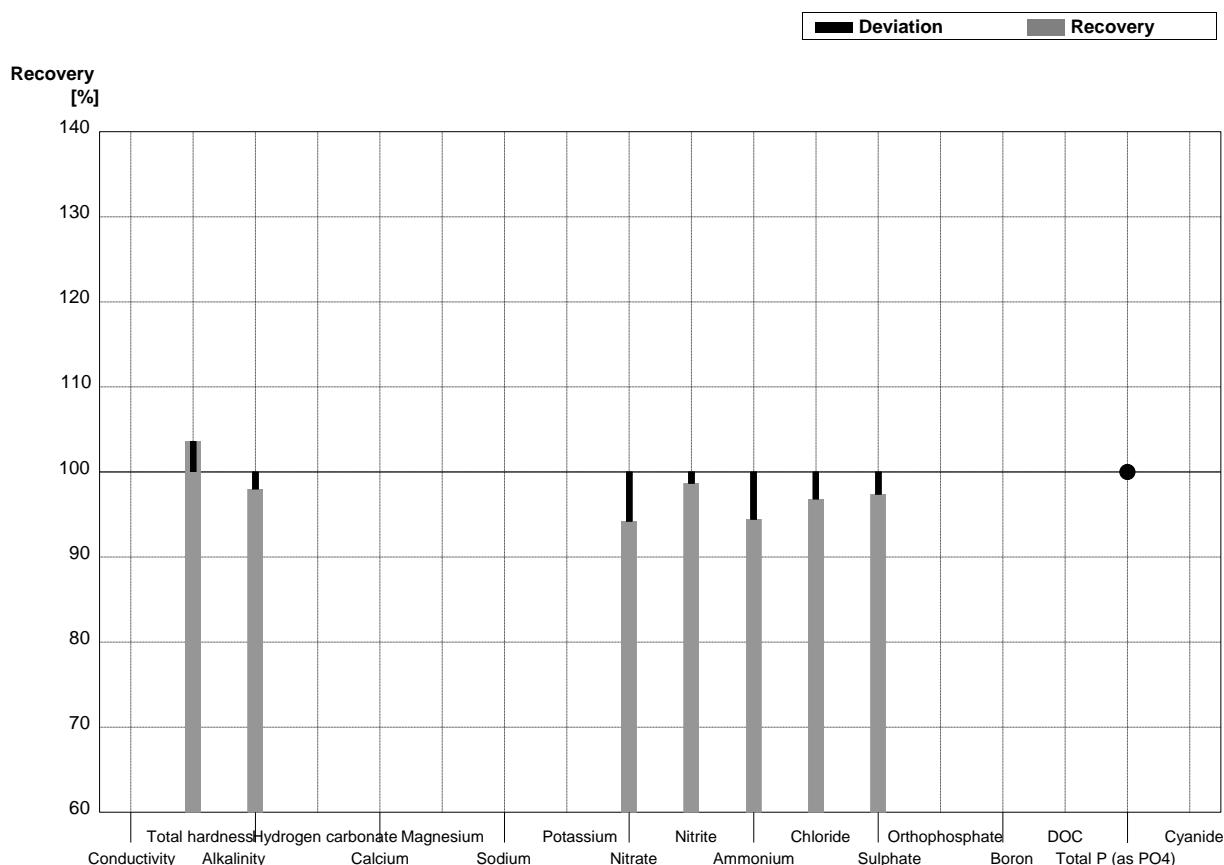
**Sample N153B**  
**Laboratory AS**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	389		$\mu\text{S}/\text{cm}$	98%
Total hardness	1,35	0,01			$\text{mmol/l}$	
Alkalinity	1,38	0,01			$\text{mmol/l}$	
Hydrogen carbonate	81,0	0,5	74		$\text{mg/l}$	91%
Calcium	34,3	0,5			$\text{mg/l}$	
Magnesium	12,0	0,1			$\text{mg/l}$	
Sodium	20,4	0,1			$\text{mg/l}$	
Potassium	4,09	0,04			$\text{mg/l}$	
Nitrate	33,5	0,6	32,8		$\text{mg/l}$	98%
Nitrite	0,0240	0,0005	<0,01		$\text{mg/l}$	FN
Ammonium	<0,01		<0,1		$\text{mg/l}$	•
Chloride	39,4	0,7	40,1		$\text{mg/l}$	102%
Sulphate	32,0	0,4	32,0		$\text{mg/l}$	100%
Orthophosphate	0,072	0,002	<0,05		$\text{mg/l}$	FN
Boron	0,126	0,001	0,107		$\text{mg/l}$	85%
DOC	4,28	0,05			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,201	0,003	<0,05		$\text{mg/l}$	FN
Cyanide	0,0283	0,0016	0,0180		$\text{mg/l}$	64%



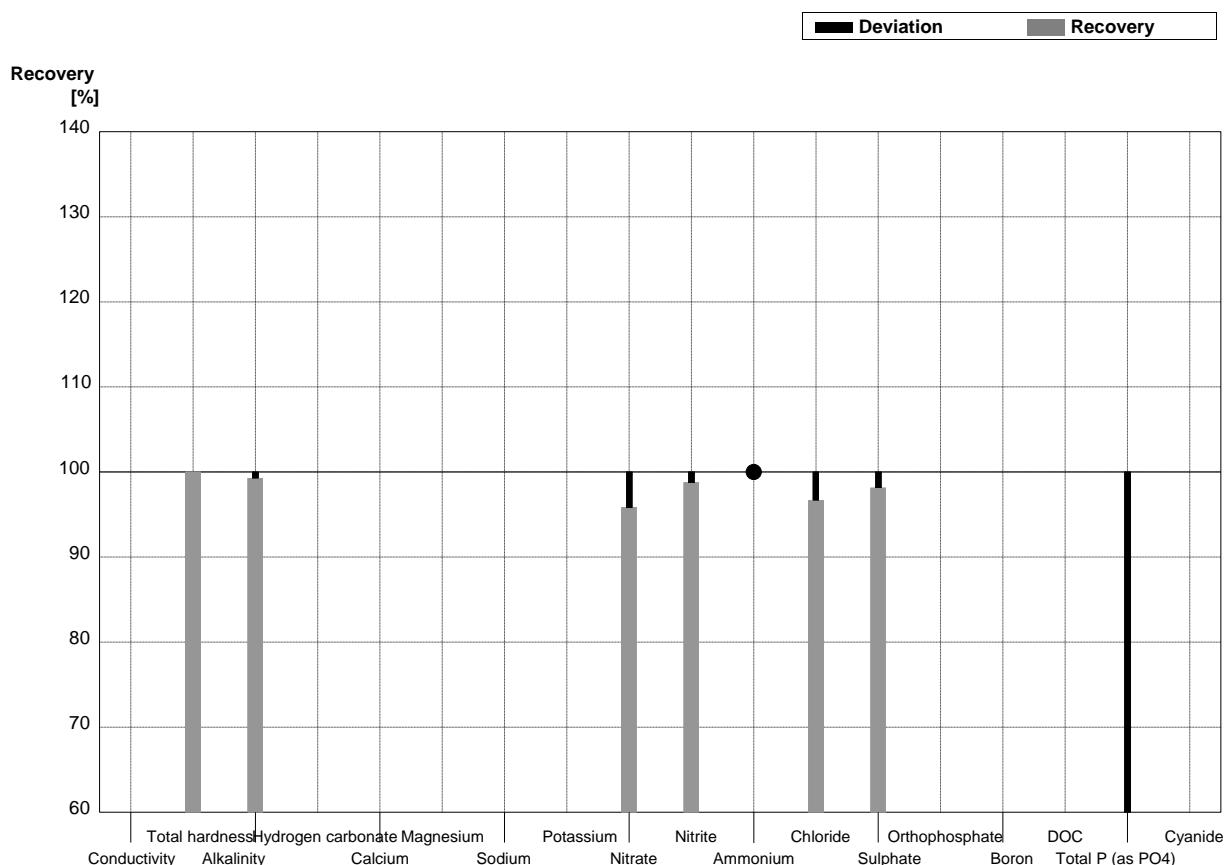
**Sample N153A**  
**Laboratory AT**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	721	2			µS/cm	
Total hardness	2,80	0,03	2,90	0,28	mmol/l	104%
Alkalinity	2,99	0,03	2,93	0,28	mmol/l	98%
Hydrogen carbonate	179	2			mg/l	
Calcium	79,5	1,0			mg/l	
Magnesium	19,9	0,2			mg/l	
Sodium	29,2	0,4			mg/l	
Potassium	7,04	0,07			mg/l	
Nitrate	69,0	1,5	65	6,5	mg/l	94%
Nitrite	0,075	0,001	0,074	0,007	mg/l	99%
Ammonium	0,108	0,007	0,102	0,010	mg/l	94%
Chloride	66,1	1,2	64	6,4	mg/l	97%
Sulphate	53,4	0,6	52		mg/l	97%
Orthophosphate	<0,009				mg/l	
Boron	0,056	0,001			mg/l	
DOC	3,04	0,04			mg/l	
Total P (as PO <sub>4</sub> )	<0,009		<0,002		mg/l	•
Cyanide	0,064	0,002			mg/l	



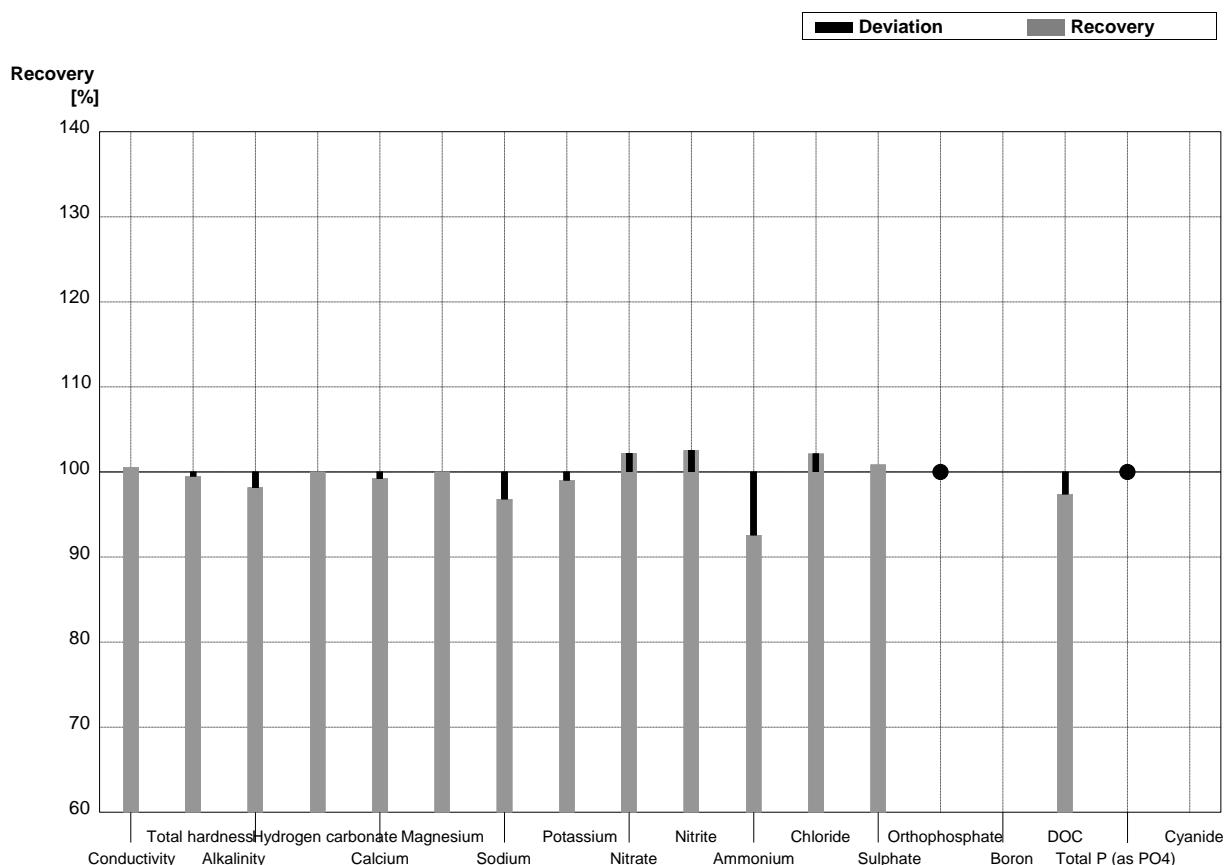
**Sample N153B**  
**Laboratory AT**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,35	0,01	1,35	0,12	$\text{mmol/l}$	100%
Alkalinity	1,38	0,01	1,37	0,13	$\text{mmol/l}$	99%
Hydrogen carbonate	81,0	0,5			$\text{mg/l}$	
Calcium	34,3	0,5			$\text{mg/l}$	
Magnesium	12,0	0,1			$\text{mg/l}$	
Sodium	20,4	0,1			$\text{mg/l}$	
Potassium	4,09	0,04			$\text{mg/l}$	
Nitrate	33,5	0,6	32,1	3,2	$\text{mg/l}$	96%
Nitrite	0,0240	0,0005	0,0237	0,002	$\text{mg/l}$	99%
Ammonium	<0,01		<0,01		$\text{mg/l}$	•
Chloride	39,4	0,7	38,1	3,8	$\text{mg/l}$	97%
Sulphate	32,0	0,4	31,4		$\text{mg/l}$	98%
Orthophosphate	0,072	0,002			$\text{mg/l}$	
Boron	0,126	0,001			$\text{mg/l}$	
DOC	4,28	0,05			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,201	0,003	0,061	0,006	$\text{mg/l}$	30%
Cyanide	0,0283	0,0016			$\text{mg/l}$	



**Sample N153A**  
**Laboratory AU**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	721	2	725	5	$\mu\text{S}/\text{cm}$	101%
Total hardness	2,80	0,03	2,786	0,2	$\text{mmol/l}$	100%
Alkalinity	2,99	0,03	2,935	0,2	$\text{mmol/l}$	98%
Hydrogen carbonate	179	2	179,0	6	$\text{mg/l}$	100%
Calcium	79,5	1,0	78,88	3	$\text{mg/l}$	99%
Magnesium	19,9	0,2	19,90	1,5	$\text{mg/l}$	100%
Sodium	29,2	0,4	28,27	1	$\text{mg/l}$	97%
Potassium	7,04	0,07	6,972	0,8	$\text{mg/l}$	99%
Nitrate	69,0	1,5	70,51	3	$\text{mg/l}$	102%
Nitrite	0,075	0,001	0,0769	0,02	$\text{mg/l}$	103%
Ammonium	0,108	0,007	0,100	0,02	$\text{mg/l}$	93%
Chloride	66,1	1,2	67,51	2	$\text{mg/l}$	102%
Sulphate	53,4	0,6	53,85	2	$\text{mg/l}$	101%
Orthophosphate	<0,009		<0,03		$\text{mg/l}$	•
Boron	0,056	0,001			$\text{mg/l}$	
DOC	3,04	0,04	2,961	0,2	$\text{mg/l}$	97%
Total P (as PO <sub>4</sub> )	<0,009		<0,03		$\text{mg/l}$	•
Cyanide	0,064	0,002			$\text{mg/l}$	



**Sample N153B**  
**Laboratory AU**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	395	1	397	5	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,35	0,01	1,355	0,2	$\text{mmol/l}$	100%
Alkalinity	1,38	0,01	1,379	0,3	$\text{mmol/l}$	100%
Hydrogen carbonate	81,0	0,5	84,12	8	$\text{mg/l}$	104%
Calcium	34,3	0,5	34,31	2	$\text{mg/l}$	100%
Magnesium	12,0	0,1	12,13	2	$\text{mg/l}$	101%
Sodium	20,4	0,1	19,89	1	$\text{mg/l}$	98%
Potassium	4,09	0,04	4,078	0,6	$\text{mg/l}$	100%
Nitrate	33,5	0,6	32,30	3	$\text{mg/l}$	96%
Nitrite	0,0240	0,0005	0,0257	0,04	$\text{mg/l}$	107%
Ammonium	<0,01		<0,05		$\text{mg/l}$	•
Chloride	39,4	0,7	40,41	2	$\text{mg/l}$	103%
Sulphate	32,0	0,4	31,83	2	$\text{mg/l}$	99%
Orthophosphate	0,072	0,002	0,0753	0,1	$\text{mg/l}$	105%
Boron	0,126	0,001			$\text{mg/l}$	
DOC	4,28	0,05	4,140	0,2	$\text{mg/l}$	97%
Total P (as PO <sub>4</sub> )	0,201	0,003	0,188	0,1	$\text{mg/l}$	94%
Cyanide	0,0283	0,0016			$\text{mg/l}$	

