

Proficiency Testing Scheme für die Wasseranalytik - Realproben N160 Nährstoffe

Proficiency Testing Scheme for Water Analysis - natural water samples N160 Nutrients/Major ions

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Leitung Eignungsprüfungen für den Bereich chemische Analytik / Management for proficiency tests for chemical analysis

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D1. Beschreibung des Ringversuchs

D1.1. Ausgestaltung und Durchführung

- Anzahl der Anmeldungen: 82
- Anzahl der übermittelten Datensätze: 80
- Probenversand: 29.03.2022
- Einsendeschluss der Daten: 26.04.2022

Die Ergebnisabgabe erfolgte auf elektronischem Weg mittels passwortgeschützter Online-Dateneingabe. Beim Abschluss der Dateneingabe bestätigten die Teilnehmenden die vollständige und korrekte Eingabe aller Daten und die Freigabe der Ergebnisse zur Auswertung.

Zur Anonymisierung der Ergebnisse wurde jedem Labor willkürlich ein Laborcode zugeteilt.

D1.2. Beschreibung der Prüfgegenstände

Die Probenahme von Grundwasser und Oberflächenwasser erfolgte am 25.03.2022. Das Probenmaterial umfasste:

- 1 Probe Grundwasser (N160 A)
- 1 Probe Oberflächenwasser (N160 B)

Alle Proben wurden über 0,45 µm Membranfilter filtriert und anschließend bis zur weiteren Verarbeitung gekühlt gelagert (4 +/- 3 °C). Die o.a. Proben wurden zusätzlich mit einzelnen Substanzen dotiert.

Das Abfüllen der Proben erfolgte unter ständigem Rühren (Rührkessel). Die Stabilisierung erfolgte durch Kühlung bzw. durch Zusatz von Salzsäure auf pH < 2 (für DOC).

Die homogenen Prüfgegenstände wurden am 29.03.2021 verschickt.

Jedes Teilnehmerlabor erhielt:

- 2 Proben zu je ca. 1250 ml, abgefüllt in je 2 x 500 ml PET-Flaschen und 1 x 250 ml LDPE-Flaschen (für DOC).

D1.3. Anweisungen für die Teilnehmenden

Aus Stabilitätsgründen wurde empfohlen bis spätestens 06.04.2022 mit den Analysen zu beginnen.

Den Teilnehmenden stand die Wahl der Analysenmethode bzw. der verwendeten Norm frei, welche mit ihrem Routineverfahren übereinstimmen sollte. Eine Übersicht der angewendeten Methoden findet sich unter E9.

D1.4. Kontrollanalytik zur Bewertung der Homogenität

Im Zuge der Abfüllung wurden zu willkürlichen Zeitpunkten mehrere Aliquote pro Probe zur Kontrollanalytik entnommen.

Es wurden für die A- bzw. B-Probe jeweils n=5 Kontrollproben sowie n=1 undotierte Realprobe dem Labor zur Analyse übergeben.

Die Bestimmung der Parameter wurde an ein externes Labor (akkreditiert nach EN ISO/IEC 17025 für alle angeführten Parameter mit Ausnahme von Gesamtstickstoff) im Unterauftrag vergeben (verdeckte Vergabe, Proben anonymisiert) und erfolgte zeitnah zum Probenversand.

Im Zuge der Auswertung wurde die relative Standardabweichung zwischen den Kontrollprobenabfüllungen bewertet und mit der Vergleichsstandardabweichung beim aktuellen Ringversuch verglichen.

Die Ergebnisse der Kontrollanalytik sind in der parameterorientierten Auswertung (E7) in Form von Mittelwerten \pm Messunsicherheit als Kontrollwert (control test value) \pm U gelistet (jeweils angegeben als erweiterte Messunsicherheit, $k=2$).

D1.5. Trendtest zur Bewertung der Stabilität

Die Bewertung der Stabilität der Prüfgegenstände (Realproben) erfolgte auf Basis der Datenstatistik aus den vergangenen Runden für Realproben im Zeitraum 2013 bis 2021.

Um die ausreichende Stabilität der Prüfgegenstände der aktuellen Eignungsprüfungsrunde bis zum Abgabetermin zu überprüfen, wurde die Darstellung der Ergebnisse der Teilnehmenden nach Analysendatum ausgewertet und auf systematische Trends geprüft (unauffällig). Durch Darstellung der Ergebnisse der Teilnehmenden nach Abfüllreihenfolge wurde auf das Vorliegen möglicher systematischer Trends der Ergebnisse geprüft (unauffällig).

Aufgrund der bisherigen Erfahrungen und aufgrund der Bewertungsgrundlagen der aktuellen Eignungsprüfungsrunde gilt die Stabilität der Prüfgegenstände im empfohlenen Zeitraum für die Analyse bis zum Abgabeschluss als gewährleistet.

D1.6. Ermittlung des zugewiesenen Wertes

Die Ergebnisse der Analysen mussten spätestens bis zum 26.04.2022 beim Veranstalter vorliegen. Später eingehende Werte wurden nicht berücksichtigt.

Im Zuge der Plausibilitätsprüfung der Daten (z.B. Check korrekte Einheiten, Messunsicherheitsangabe, ...) wurden die Teilnehmenden mit auffälligen Ergebnissen zum erneuten Datencheck der Eingabe und um Rückmeldung binnen 24 h aufgefordert.

Nach Abschluss der Plausibilitätsprüfung, wurde der Ausreißertest nach Hampel durchgeführt und die Ausreißer ermittelt. Die von diesem Test auffällig eingestuft Werte wurden in der Auswertung gekennzeichnet („H“). In begründeten Fällen, z.B. wenn der Ausreißertest nach Hampel nicht anwendbar ist (z.B. Ergebnisse liegen sehr eng beieinander oder überwiegend selber Zahlenwert bzw. bei wenig abgegebenen Daten mit sehr hoher Streuung), kann eine Ausreißereliminierung nach weiteren Kriterien erfolgen (z.B. Dean- und Dixon Test bzw. manuelle Ausreißerdefinition aufgrund Expertenbefund). Diese Vorgangsweise wird nach Anwendung unter Punkt D4 des Berichts dokumentiert.

Die weitere Auswertung erfolgte gemäß ISO 5725-2. Eine statistische Auswertung der Ringversuchsdaten erfolgte erst ab zumindest 6 gültigen, numerischen Ergebnissen pro Parameter. Ergebnisse kleiner Bestimmungs- oder Nachweisgrenze wurden bei den Berechnungen nicht berücksichtigt.

Der zugewiesene Wert wird im Normalfall jeweils als der ausreißerbereinigte Mittelwert über alle übermittelten Ergebnisse gebildet.

Bei sehr hohen Streuungen der Ergebnisse der Teilnehmenden von über 50 % oder bei mangelhafter Rückführbarkeit der statistischen Kenndaten aus den ausreißerbereinigten Ergebnissen der Teilnehmenden auf den Mittelwert des Kontrolllabores bzw. einer zu geringen Anzahl an ausreißerbereinigten Ergebnissen über die Gruppe der akkreditierten Labore, kann die Situation auftreten, dass kein zugewiesener Wert für den aktuellen Ringversuch festgelegt werden kann und daher keine Bewertung der Ergebnisse der Teilnehmenden für diesen Parameter möglich ist. Ein entsprechender Hinweis wird im Bericht unter E7 bei der informativen Auswertung angebracht. Im Rahmen der internen Qualitätssicherung der Teilnehmenden kann ein Vergleich mit den Ergebnissen des Kontrolllabors durchgeführt werden. Diese

Vorgehensweise wird bei Anwendung jeweils parameter- und probenbezogen unter Punkt D4 des Berichts dokumentiert.

D2. Kriterien der Leistungsbewertung

D2.1. Leistungskriterium z-Score

Als Basis zur Berechnung der Wiederfindungsraten sowie der z-Scores wurde der ausreißerbereinigte Mittelwert über alle übermittelten Ergebnisse herangezogen.

Die Ermittlung der z-Scores erfolgte gemäß nachfolgender Formel:

$$z - score = \frac{x_i - \bar{X}}{\text{Kriterium}}$$

Dabei ist:

x_i	Messergebnis des teilnehmenden Labors
\bar{X}	zugewiesener Wert Sollwert für die Leistungsbewertung der Teilnehmenden (angegeben auf 3 signifikante Stellen); im Regelfall: ausreißerbereinigter Mittelwert der Ergebnisse der Teilnehmenden. Eine davon abweichende Vorgehensweise wird unter Punkt D4 des Berichts beschrieben.
<i>Kriterium</i>	Vergleichsstandardabweichung berechnet aus den Statistiken für reale Wasserproben der vorangegangenen Runden im Zeitraum 2013 bis 2021 (RSDpooled) bzw. aus den ausreißerbereinigten Ergebnissen der Teilnehmenden (sR) des aktuellen Ringversuchs (falls noch weniger als 6 vorangegangene Runden für A und B-Proben vorlagen). In begründeten Fällen (z.B. Ergebnisse Realproben nahe an Mindestbestimmungsgrenze oder regulatorischer Vorgaben) erfolgt die Festlegung nach Expertenbefund und die Vorgangsweise wird unter Punkt D4 des Berichts beschrieben.

D2.2. Leistungskriterium E_n-Score

Für die realen Wasserproben erfolgen seit 2019 zusätzliche Bewertungen unter Einbeziehung der erweiterten Messunsicherheiten der Teilnehmenden und der erweiterten Messunsicherheit des zugewiesenen Wertes, gemäß E_n-Score. Diese Auswertungen werden für die Teilnehmenden im Bericht unter Punkt E8, jeweils im Anschluss an die z-Score Auswertung dargestellt.

Die Ermittlung der E_n-Scores erfolgte gemäß nachfolgender Formel:

$$E_n - score = \frac{x_i - \bar{X}}{\sqrt{U(x_i)^2 + U(\bar{X})^2}}$$

Dabei ist:

x_i	Messergebnis des teilnehmenden Labors
\bar{X}	zugewiesener Wert Sollwert für die Leistungsbewertung der Teilnehmenden (angegeben auf 3 signifikante Stellen); im Regelfall: ausreißerbereinigter Mittelwert der Ergebnisse der Teilnehmenden. Eine davon abweichende Vorgehensweise wird unter Punkt D4 des Berichts beschrieben.
$U(x_i)$	erweiterte Messunsicherheit des Messergebnisses (Ergebnisse der Teilnehmenden), $k=2$
$U(\bar{X})$	erweiterte Messunsicherheit des zugewiesenen Wertes, $k=2$

D2.3. Leistungsbewertung z-Score und E_n-Score

Interpretation der z-Scores:

- $|z\text{-Score}| \leq 2.0$ Ergebnis gut
- $2.0 < |z\text{-Score}| < 3.0$ Ergebnis fragwürdig
- $|z\text{-Score}| \geq 3.0$ Ergebnis nicht zufriedenstellend

Hinweis: Bei der Bewertung mittels z-Score wird die Messunsicherheit der Teilnehmenden nicht mitberücksichtigt. Der Vergleich der Abweichung zum zugewiesenen Wert erfolgt über das Kriterium.

Interpretation der E_n-Scores:

- $|E_n\text{-Score}| \leq 1.0$ zufriedenstellende Leistung
- $|E_n\text{-Score}| > 1.0$ nicht zufriedenstellende Leistung

Hinweis: Bei der Bewertung mittels E_n-Score erfolgt die Berücksichtigung der erweiterten Messunsicherheiten der Teilnehmenden und des zugewiesenen Wertes. $|E_n\text{-Score}| > 1.0$ können darauf hinweisen, dass die Unsicherheitsschätzungen überprüft oder ein Messproblem korrigiert werden muss.

D3. Darstellung und Interpretation der Messergebnisse

In der parameterorientierten Auswertung ist eine tabellarische Übersicht mit den Messergebnissen inklusive der Unsicherheit ($\pm U$), der Wiederfindung zum zugewiesenen Wert und dem berechneten z-Score dargestellt. Weiterhin werden unter

Anmerkungen die Ausreißer gekennzeichnet. Die in der Tabelle angeführten Ergebnisse werden auch grafisch dargestellt.

In der labororientierten Auswertung werden pro Labor in anonymisierter Form die Ergebnisse der einzelnen Labore als Messergebnis $\pm U$ sowie die Wiederfindungen und die ermittelten z-Scores bezugnehmend auf das Kriterium dargestellt. Weiters werden die E_n -Scores unter Berücksichtigung der erweiterten Unsicherheiten in unabhängigen Tabellen ausgegeben. Die labororientierten Auswertungen enthalten jeweils die Bewertungsgrundlagen wie zugewiesener Wert samt erweiterter Messunsicherheit sowie das Kriterium.

Eine Erläuterung zu den Tabellen und Grafiken kann Punkt D5 entnommen werden.

D4. Anmerkungen zur Auswertung

Wie unter Punkt D2 ersichtlich, können die z-Scores auch unter Einbeziehung der Vergleichsstandardabweichung der ausreißerbereinigten Ergebnisse der Teilnehmenden des aktuellen Ringversuchs berechnet werden. Das kann zur Folge haben, dass es bei Parametern mit hoher Ergebnisstreuung dazu kommen kann, dass der Bereich z-Score - 2 bis z-Score + 2 einen ungewöhnlich hohen Wiederfindungsbereich abdeckt. Umgekehrt führt eine sehr geringe Streuung der Ergebnisse der Teilnehmenden dazu, dass z-Score - 2 bis z-Score + 2 einen ungewöhnlich kleinen Wiederfindungsbereich abdeckt.

Die Wiederfindungsrate wird unabhängig von der Streuung der Ergebnisse, als prozentuelle Abweichung vom zugewiesenen Wert berechnet und sollte bei der Bewertung von Ergebnissen im Rahmen des internen Qualitätsmanagementsystems der teilnehmenden Labore berücksichtigt werden.

Als Ergebnis einer Langzeitauswertung über aktuell 9 Eignungsprüfungsrunden (2013–2021) in Realproben wurden Kriterien (RSDpool) zur Ergebnisbewertung berechnet. Diese wurden im Zuge der Auswertung den relativen Vergleichsstandardabweichungen (vR) des aktuellen Ringversuchs gegenübergestellt.

Parameter Orthophosphat und Nitrat bei Probe N160 A und Parameter pH-Wert, Bor, Orthophosphat und Nitrat bei Probe N160 B: Die auf Basis der Ergebnisse der Teilnehmenden berechneten Sollwerte lagen außerhalb der Messunsicherheit des Kontrollwertes bzw. kleiner Bestimmungsgrenze im Fall von Bor (N160 B) und Orthophosphat (N160A und B) und es ist über das Kontrolllabor keine Rückführbarkeit möglich. Der zugewiesene Wert wurde daher über die ausreißerbereinigten Mittelwerte aus der Gruppe der akkreditierten Teilnehmenden berechnet.

Parameter Orthophosphat bei Probe N160 A und N160 B: Für diesen Parameter wurde die relative Vergleichsstandardabweichung (vR) auf Basis der Ergebnisse der akkreditierten Teilnehmenden von jeweils 16 % für die Bewertung gewählt.

Bei den restlichen Parametern erfolgt die Berechnung der Scores nach D2.

D5. Erläuterung zu Tabellen und Grafiken

D5.1. Angaben und Abkürzungen in Tabellen

Parameter	Allgemeine Bezeichnung des Analysenparameters
Probe	Bezeichnung der übermittelten Probe
Einheit	Vorgegebene Einheit für Messwert und Ergebnisunsicherheit (z.B. mg/l)
Zugewiesener Wert	Sollwert für die Leistungsbewertung der Teilnehmenden (angegeben auf 3 signifikante Stellen)
U (k=2)	erweiterte Unsicherheit (k=2) des zugewiesenen Wertes, (angegeben auf 3 signifikante Stellen)
Kriterium	Vorgabewert zur Ermittlung des z-Scores in der angegebenen Einheit (angegeben auf 3 signifikante Stellen)
Kriterium [%]	Vorgabewert zur Ermittlung des z-Scores in % des zugewiesenen Wertes (angegeben auf 2 signifikante Stellen)
Mittelwert	Ausreißerbereinigter Mittelwert über die Ergebnisse der Teilnehmenden (angegeben auf 3 signifikante Stellen)
VB (99%)	99 % Vertrauensbereich (angegeben auf 3 signifikante Stellen)
Minimum	Minimales abgegebenes Messergebnis, ausreißerbereinigt (angegeben auf 3 signifikante Stellen)
Maximum	Maximales abgegebenes Messergebnis, ausreißerbereinigt (angegeben auf 3 signifikante Stellen)
sR	Vergleichsstandardabweichung, berechnet aus den ausreißerbereinigten Ergebnissen der Teilnehmenden des aktuellen Ringversuchs (angegeben auf 3 signifikante Stellen)
vR	relative Vergleichsstandardabweichung in %, berechnet aus den ausreißerbereinigten Ergebnissen der Teilnehmenden des aktuellen Ringversuchs bezogen auf den Mittelwert (angegeben auf 2 signifikante Stellen)
Kontrollwert ±	Mittelwert der Kontrollmessungen des Veranstalters ±

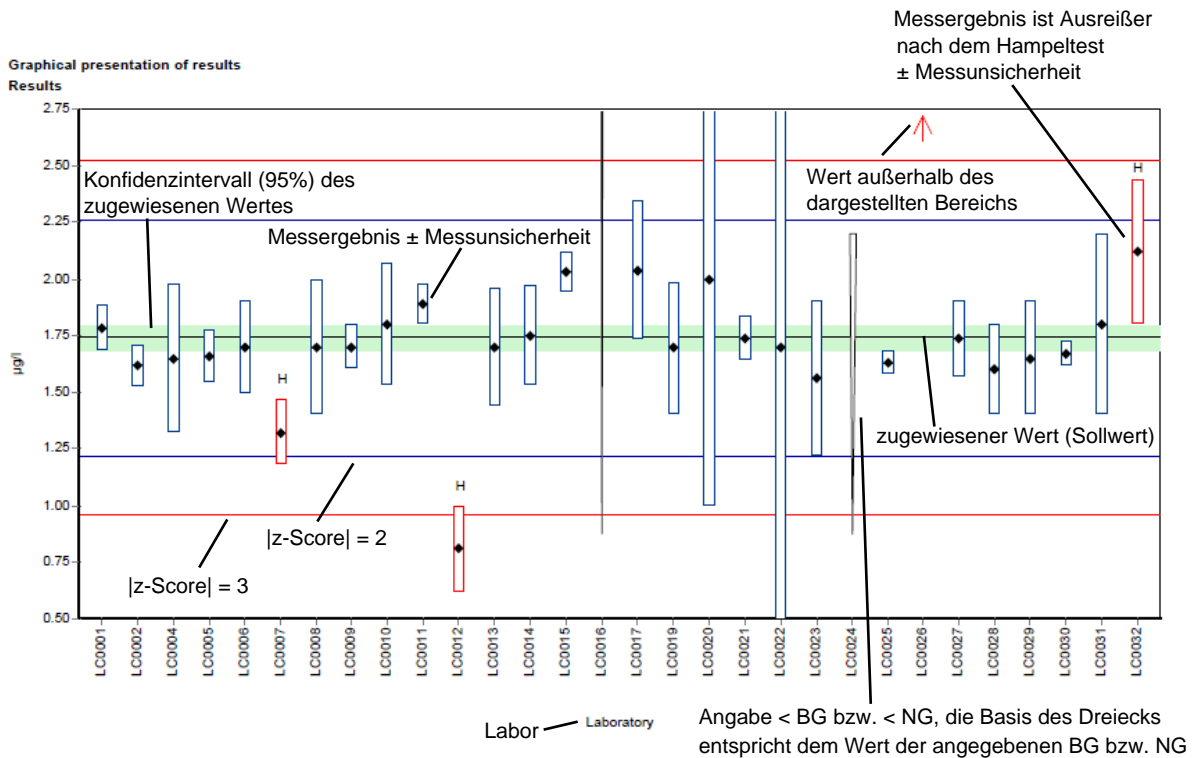
U (k=2)	erweiterte Ergebnisunsicherheit des Kontrollwertes (jeweils angegeben auf 3 signifikante Stellen)
Laborcode	anonymisierte, eindeutige Kennung des teilnehmenden Labors im jeweiligen Ringversuch
Messwert	einzelne(r) Messwert(e) lt. Angabe der Teilnehmenden (maximal 5 Nachkommastellen dargestellt)
Messergebnis	Für die Bewertung herangezogenes Ergebnis lt. Angabe der Teilnehmenden (maximal 5 Nachkommastellen dargestellt). Bei Eignungsprüfungsrunden mit Vorgabe von unabhängigen Mehrfachbestimmungen, entspricht dies dem berechneten Mittelwert aus den einzelnen Messwerten der Teilnehmenden.
$\pm U$	kombinierte Messunsicherheit ohne Erweiterungsfaktor (k=1) lt. Angabe der Teilnehmenden (maximal 5 Nachkommastellen dargestellt)
BG	Bestimmungsgrenze
NG	Nachweisgrenze
WF	Wiederfindungsrate in %, bezogen auf den zugewiesenen Wert (angegeben auf 3 signifikante Stellen, dargestellt maximal 1 Nachkommastelle)
MW	Mittelwert
z-Score	Abweichung des Messergebnisses zum zugewiesenen Wert, ausgedrückt als Vielfaches des Kriteriums (angegeben auf 3 signifikante Stellen, dargestellt maximal 2 Nachkommastellen)
E _n -Score	Abweichung des Messergebnisses zum zugewiesenen Wert, ausgedrückt als Vielfaches der kombinierten Messunsicherheiten, bestehend aus erweiterter Unsicherheit des zugewiesenen Wertes und der erweiterten Unsicherheit der Messergebnisse der Teilnehmenden (angegeben auf 3 signifikante Stellen, dargestellt maximal 2 Nachkommastellen). Beim E _n -Score erfolgt die Berücksichtigung der Messunsicherheit der Teilnehmenden.
-	Keine Daten übermittelt bzw. keine Berechnung möglich
Anmerkungen	Anmerkungen zum jeweiligen Messergebnis (z.B. H, FN, FP)
H	Ausreißer nach dem Hampel-Test
FN	Falsch negativ – Messergebnis kleiner Bestimmungsgrenze dessen Betrag die Bedingungen eines Ausreißers nach dem Hampeltest erfüllt.

FP	Falsch positiv – Falls aufgrund des geringen Analytgehalts kein zugewiesener Wert ermittelt werden kann ($n < 6$), wird der Median der Beträge der übermittelten Nachweis- bzw. Bestimmungsgrenzen ermittelt. Als falsch positiv wird ein Messergebnis bewertet, welches diesen Median um mehr als 100 % übersteigt.
Standardabweichung	Vergleichsstandardabweichung berechnet aus den Ergebnissen der Teilnehmenden des aktuellen Ringversuchs (angegeben auf 3 signifikante Stellen)
rel. Standardabweichung	relative Vergleichsstandardabweichung in %, berechnet aus den Ergebnissen der Teilnehmenden des aktuellen Ringversuchs bezogen auf den Mittelwert (angegeben auf 3 signifikante Stellen)
n	Anzahl der Messergebnisse
*	Kennzeichnung für Hinweise zur Erläuterung
**	Kennzeichnung für Parameter außerhalb der Akkreditierung gemäß EN ISO/IEC 17043

D5.2. Graphische Darstellung der Ergebnisse

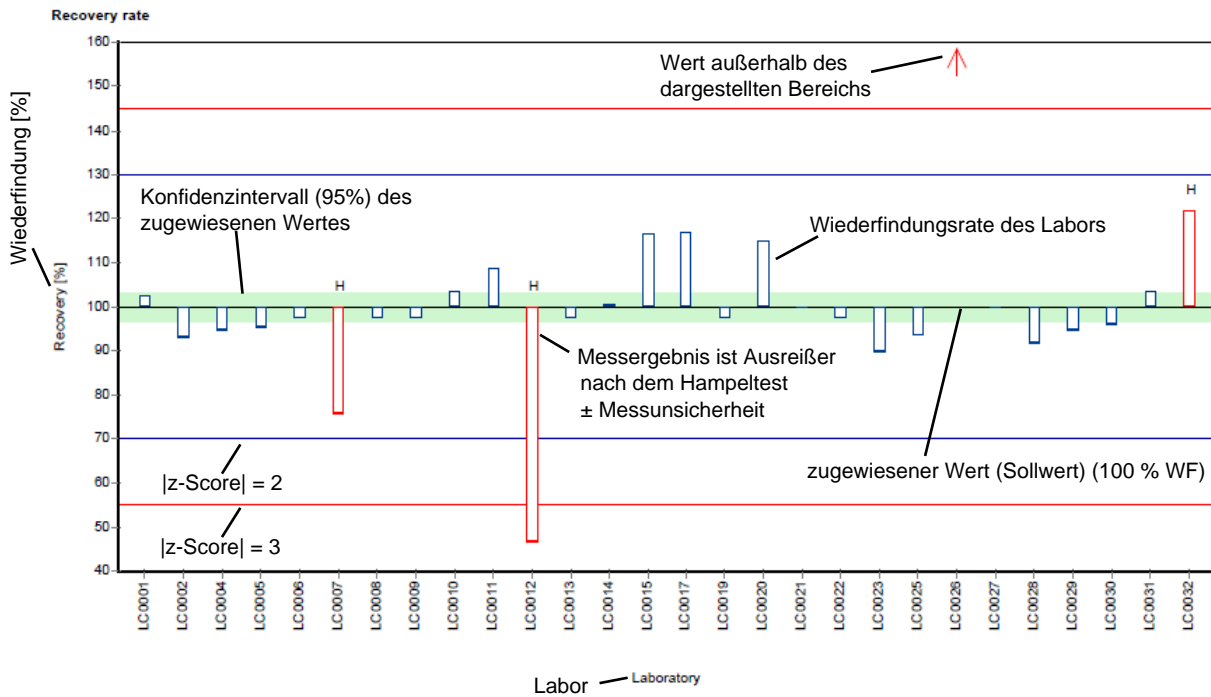
Nachfolgend wird die graphische Darstellung anhand von kommentierten Beispieldiagrammen erläutert.

Beispieldiagramm: Messwerte



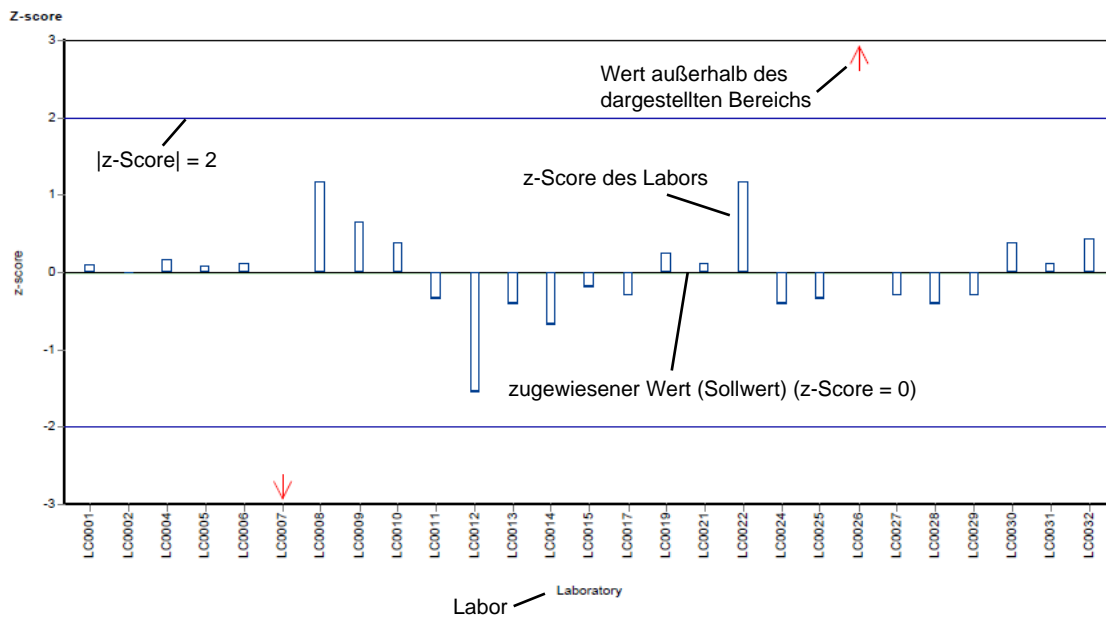
Unterschiedliche Analysemethoden werden mit unterschiedlichen Farben kenntlich gemacht.

Beispieldiagramm: Wiederfindung zum zugewiesenen Wert



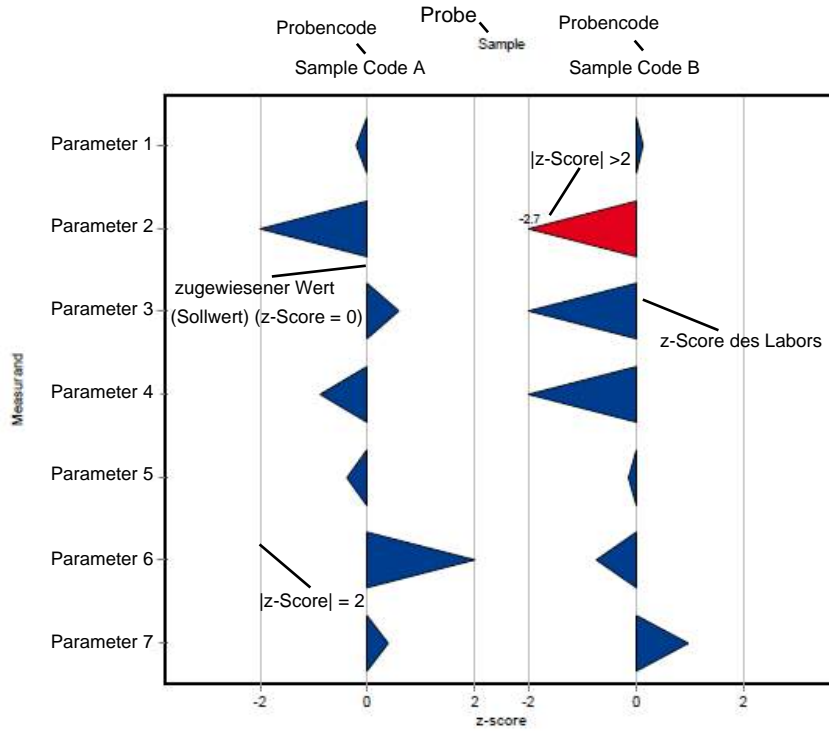
Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

Beispieldiagramm: z-Score

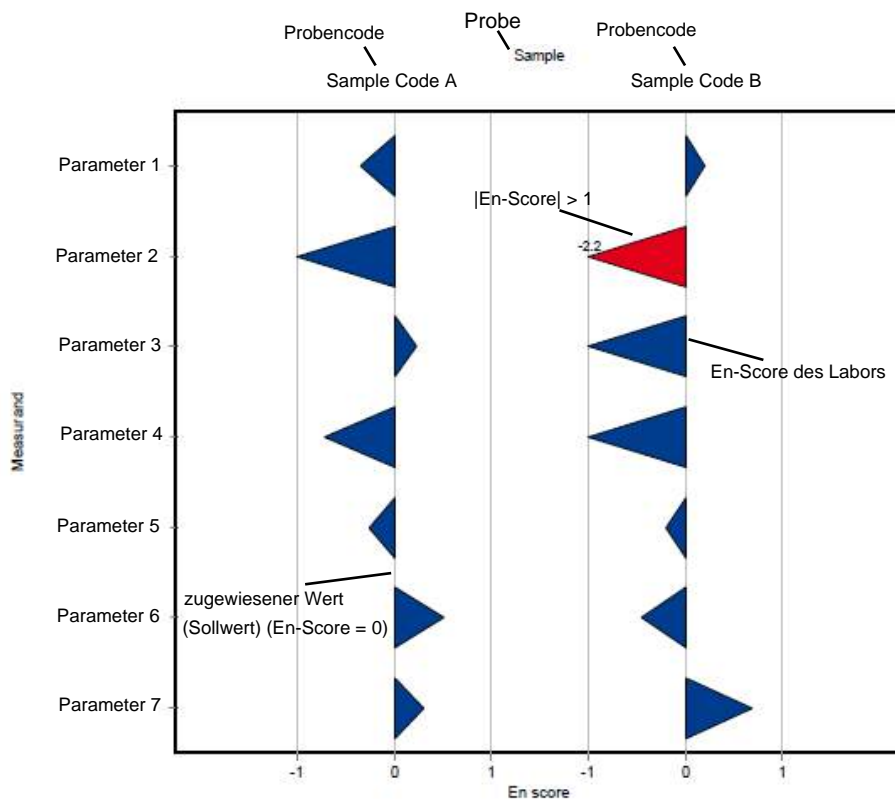


Unterschiedliche Analysenmethoden werden mit unterschiedlichen Farben kenntlich gemacht.

Beispieldiagramm: z-Score (labororientierte Auswertung)



Beispieldiagramm: En-Score (labororientierte Auswertung)



D6. Zusammenfassung

D6.1. Tabelle der zugewiesenen Werte

Parameter	Probe	Einheit	zugewiesener Wert	±	U (k=2)	Kriterium	Kriterium [%]
Säurekapazität Ks 4,3	N160 A	mmol/l	7.95	±	0.0264	0.159	2
	N160 B	mmol/l	3.52	±	0.014	0.0704	2
Ammonium (als NH ₄)	N160 A	mg/l	0.0793	±	0.00266	0.00952	12
	N160 B	mg/l	0.285	±	0.00486	0.0341	12
Bor	N160 A	mg/l	0.0747	±	0.00166	0.00822	11
	N160 B	mg/l	0.0149	±	0.000559	0.00164	11
Calcium	N160 A	mg/l	143	±	1.42	4.42	3.1
	N160 B	mg/l	61.3	±	0.649	1.9	3.1
Chlorid	N160 A	mg/l	72.1	±	0.47	2.89	4
	N160 B	mg/l	22.3	±	0.157	0.891	4
DOC (berechnet als C)	N160 A DOC	mg/l	2.08	±	0.0585	0.208	10
	N160 B DOC	mg/l	2.63	±	0.0618	0.263	10
elektr. Leitfähigkeit (25°C)	N160 A	µS/cm	1050	±	3.6	13.6	1.3
	N160 B	µS/cm	474	±	1.13	6.16	1.3
Hydrogencarbonat	N160 A	mg/l	483	±	1.82	9.66	2
	N160 B	mg/l	213	±	1.3	4.26	2
Magnesium	N160 A	mg/l	35.3	±	0.274	1.41	4
	N160 B	mg/l	14.9	±	0.135	0.598	4
Nitrat (als NO ₃)	N160 A	mg/l	23.8	±	0.233	1.19	5
	N160 B	mg/l	13.4	±	0.132	0.672	5
Nitrit (als NO ₂)	N160 A	mg/l	0.288	±	0.00359	0.0153	5.3
	N160 B	mg/l	0.193	±	0.00273	0.0102	5.3
Orthophosphat (als PO ₄)	N160 A	mg/l	0.0617	±	0.00324	0.00987	16
	N160 B	mg/l	0.109	±	0.0055	0.0174	16
pH-Wert	N160 A	-	7.69	±	0.0265	0.154	2
	N160 B	-	8.07	±	0.019	0.161	2
Kalium	N160 A	mg/l	5.32	±	0.0504	0.277	5.2
	N160 B	mg/l	2.18	±	0.0235	0.113	5.2
Natrium	N160 A	mg/l	31.6	±	0.245	1.07	3.4
	N160 B	mg/l	14.3	±	0.118	0.485	3.4
Sulfat (als SO ₄)	N160 A	mg/l	53.9	±	0.416	1.78	3.3
	N160 B	mg/l	29.5	±	0.207	0.973	3.3
Gesamt-P (als PO ₄)	N160 A	mg/l	1.19	±	0.0184	0.0891	7.5
	N160 B	mg/l	0.925	±	0.0149	0.0694	7.5
Gesamthärte	N160 A	mmol/l	5	±	0.0376	0.15	3
	N160 B	mmol/l	2.14	±	0.0185	0.0643	3
Gesamtstickstoff	N160 A	mg/l	5.67	±	0.147	0.47	8.3
	N160 B	mg/l	3.42	±	0.0995	0.284	8.3

D6.2. Zusammenfassung der ausreißerbereinigten Ringversuchsergebnisse

Parameter	Probe	Anzahl Labors für Berechnung	Anzahl Ausreißer Labors	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
Säurekapazität Ks 4,3	N160 A	51	6	mmol/l	7.95	± 0.0395	7.69	8.2	0.0941	1.2
	N160 B	51	6	mmol/l	3.52	± 0.0211	3.38	3.65	0.0502	1.4
Ammonium (als NH ₄)	N160 A	55	5	mg/l	0.0793	± 0.00399	0.0526	0.101	0.00987	12
	N160 B	54	6	mg/l	0.285	± 0.00729	0.244	0.334	0.0179	6.3
Bor	N160 A	31	4	mg/l	0.0747	± 0.0025	0.066	0.088	0.00463	6.2
	N160 B	24	3	mg/l	0.0148	± 0.000773	0.0122	0.0177	0.00126	8.5
Calcium	N160 A	56	3	mg/l	143	± 2.13	129	155	5.31	3.7
	N160 B	58	2	mg/l	61.3	± 0.973	56.2	68.1	2.47	4
Chlorid	N160 A	59	5	mg/l	72.1	± 0.705	67.4	76.1	1.81	2.5
	N160 B	62	2	mg/l	22.3	± 0.235	20.7	23.9	0.618	2.8
DOC (berechnet als C)	N160 A DOC	47	4	mg/l	2.08	± 0.0877	1.72	2.71	0.2	9.6
	N160 B DOC	50	1	mg/l	2.63	± 0.0928	2.2	3.18	0.219	8.3
elektr. Leitfähigkeit (25°C)	N160 A	63	8	µS/cm	1050	± 5.39	1010	1090	14.3	1.4
	N160 B	60	11	µS/cm	474	± 1.7	461	482	4.38	0.92
Hydrogencarbonat	N160 A	38	7	mg/l	483	± 2.72	469	496	5.6	1.2
	N160 B	42	3	mg/l	213	± 1.95	202	220	4.21	2
Magnesium	N160 A	58	2	mg/l	35.3	± 0.41	32.6	38	1.04	3
	N160 B	59	1	mg/l	14.9	± 0.202	14	16.5	0.517	3.5
Nitrat (als NO ₃)	N160 A	61	4	mg/l	23.7	± 0.31	21.8	26	0.806	3.4
	N160 B	61	4	mg/l	13.4	± 0.182	12.3	14.5	0.474	3.5
Nitrit (als NO ₂)	N160 A	54	6	mg/l	0.288	± 0.00538	0.252	0.32	0.0132	4.6
	N160 B	57	4	mg/l	0.193	± 0.0041	0.165	0.217	0.0103	5.3
Orthophosphat (als PO ₄)	N160 A	46	5	mg/l	0.0607	± 0.00454	0.04	0.093	0.0103	17
	N160 B	49	3	mg/l	0.108	± 0.00774	0.071	0.15	0.0181	17
pH-Wert	N160 A	69	2	-	7.69	± 0.0398	7.47	8.01	0.11	1.4
	N160 B	68	3	-	8.07	± 0.0289	7.9	8.25	0.0795	0.98

Parameter	Probe	Anzahl Labors für Berechnung	Anzahl Ausreißer Labors	Einheit	Mittelwert	± VB (99%)	Minimum	Maximum	sR	vR [%]
Kalium	N160 A	52	5	mg/l	5.32	± 0.0757	4.95	5.75	0.182	3.4
	N160 B	51	5	mg/l	2.18	± 0.0352	2.03	2.38	0.0839	3.8
Natrium	N160 A	55	2	mg/l	31.6	± 0.367	29.2	33.7	0.908	2.9
	N160 B	52	5	mg/l	14.3	± 0.176	13.2	15.3	0.424	3
Sulfat (als SO ₄)	N160 A	57	3	mg/l	53.9	± 0.624	49.6	56.9	1.57	2.9
	N160 B	56	4	mg/l	29.5	± 0.311	27.6	31.6	0.775	2.6
Gesamt-P (als PO ₄)	N160 A	50	10	mg/l	1.19	± 0.0276	0.99	1.36	0.0651	5.5
	N160 B	52	8	mg/l	0.925	± 0.0223	0.8	1.06	0.0536	5.8
Gesamthärte	N160 A	47	5	mmol/l	5	± 0.0564	4.7	5.27	0.129	2.6
	N160 B	47	5	mmol/l	2.14	± 0.0277	2	2.27	0.0634	3
Gesamtstickstoff	N160 A	33	1	mg/l	5.67	± 0.221	4.99	6.75	0.423	7.5
	N160 B	32	2	mg/l	3.42	± 0.149	2.9	4.02	0.281	8.2

E1. Description of the proficiency test

E1.1. Design and implementation

- Number of registrations: 82
- Number of submitted data records: 80
- Dispatch of samples: 29th March 2022
- Closing date for submission of data: 26th April 2022

The results were submitted electronically by a password-protected online data entry. Upon completion of the data entry, the participant confirmed the complete and correct entry of all data and the authorization of the results for evaluation.

To anonymize results, each laboratory was given a laboratory code on a random basis.

E1.2. Description of the proficiency test items

The sampling of ground water and surface water were both carried out on 25th March 2022.

The following samples were made available

- 1 sample ground water (N160 A)
- 1 sample surface water (N160 B)

Both samples were filtered using 0.45 µm membrane disc filters and stored at 4 +/- 3 °C until further processing. The samples were partly spiked with specific substances.

The samples were filled into bottles under continuous stirring (stirring vessel) and stabilized by cooling and by addition of hydrochloric acid to pH < 2 (for DOC only), respectively.

The homogeneous proficiency test items were dispatched on 29th March 2022.

Each participant received:

- 2 samples each 1250 ml, filled in 2 x 500 ml PET bottles and 1 x 250 ml LDPE bottles (for DOC) respectively.

E1.3. Instructions for the participants

For reasons of stability, it was recommended to start the analysis by the 6th April 2022 at the latest.

The participants are expected to use the test method or measurement method of their choice, which should be consistent with their routine procedures. In E9 you will find the overview of applied methods in course of the proficiency testing.

E1.4. Control testing for homogeneity evaluation

During filling of the bottles, aliquots of each sample were collected randomly for control testing. From each of the samples A and B, n=5 control test samples and n=1 unspiked real water sample were transferred to the laboratory for control testing.

The determination of the parameters was performed at an external laboratory (accredited by EN ISO/IEC 17025 for all parameters with the exception of total nitrogen) in subcontract (anonymous submission) and testing was performed close to the time of sample dispatch.

During evaluation the relative standard deviation between the individual results of the control test samples was assessed for each parameter by comparison with the reproducibility standard deviation of the actual proficiency test.

In the parameter-oriented evaluation (E7), the results of the control testing are given in the form of arithmetic means of the detected concentrations \pm expanded measurement uncertainty as control test value \pm U (expanded uncertainty, k=2).

E1.5. Trend test for stability evaluation

The evaluation of stability of the proficiency test items was performed using the data statistics of the results of previous proficiency testing rounds for real water samples of the period from 2013 to 2021.

The assessment of the stability of the proficiency test items of the current round was carried out by evaluation of all participant results sorted by analysis date (until submission deadline): No systematic trends were identified.

Using all participants results, it was furthermore tested if systematic trends could be detected depending on the order in which the bottles were filled for the proficiency test: No systematic trends could be identified.

According to data obtained from previous rounds for real water samples from 2013 to 2021 and based on the trend test evaluation of the current round, the stability of the test items for proficiency testing of real water samples can be confirmed for the recommended analysis period until deadline for submission of data.

E1.6. Determination of the assigned values

The analytical results had to be made available to the organiser not later than 26th April 2022. Any values received at a later date were not considered.

In the course of the plausibility assessment of all received data (e.g. check for correct units, indication of measurement uncertainty, ...) the participants with noticeable results were asked to perform a subsequent data check and to give a prompt feedback within 24 h.

After plausibility assessment an outlier test according to Hampel was performed to identify outliers. Values identified as conspicuous are marked specifically in the parameter-oriented evaluation ('H').

In justified cases, for instance, when the outlier test according to Hampel is not applicable (e.g. many similar or identical results of the participants or in case of a very limited number of highly scattering results) a different outlier identification method can be applied (e.g. Dean and Dixon outlier test or manual outlier elimination by expert judgement). In such a case, this procedure is documented in section E4 of the report.

Further data evaluation was performed in accordance with ISO 5725-2. A statistical evaluation of proficiency testing data was only carried out if at least 6 valid results per parameter were available. Results < LOQ or < LOD are not included in the calculation for the assigned value.

The assigned values are normally calculated as the mean over all submitted results, after removal of outliers.

For real water samples in some exceptional cases it might occur, that no assigned value based on participants' results can be calculated and no evaluation of the participants results can be made. E.g. due to large variations in the participant results ($vR > 50\%$) and/or insufficient traceability of the calculated mean of all participants after outlier-clearing to the mean of control testing or if the number of results (without outliers) of the group of accredited testing laboratories is too low.

In this case, a clear statement in section E7 of the report is made and all provided statistical data are for information only. In section E4 further information is given, when applicable, for each parameter and proficiency test item. In course of the internal

quality measures, the participants can compare their results with the control test values.

E2. Criteria of performance evaluation

E2.1. Performance criterion z-Score

The adjusted average value (after removal of outliers) for all submitted results was used as a basis for the calculation of recovery rates and z-scores.

z-Scores were calculated on the basis of the following formula:

$$z - score = \frac{x_i - \bar{X}}{Criteria}$$

In this context,

x_i	is the measurement value (result) of the participating laboratory;
\bar{X}	assigned value the target value for the assessment of the performance of the participants (3 significant digits), normally the average value of the participants' results after removal of outliers; if this approach is not applicable, the target value is assigned according to the procedure given in section E4
Criteria	is the reproducibility standard deviation calculated from previous rounds for proficiency testing for real water samples from 2013 to 2021 (as RSD pooled) or from the participants' results after removal of outliers (sR) in the current round (if less than 6 previous rounds for the parameters of real water samples A and B are available). Where justified (e.g. results for real water samples are close to minimum quantification limit or in case of regulatory requirements) the criteria is defined by expert judgement and the procedure is clearly described in section E4 of the report.

E2.2. Performance criterion E_n-Score

Since 2019 additional assessment of the participants' results using E_n-Scores for proficiency testing of real water samples is performed. This additional assessment takes into account the expanded measurement uncertainties of the participants results and the expanded uncertainty of the assigned value and is provided in the laboratory oriented part of the report (see E8 after the z-scores evaluation).

E_n-Scores were calculated on the basis of the following formula:

$$E_n - score = \frac{x_i - \bar{X}}{\sqrt{U(x_i)^2 + U(\bar{X})^2}}$$

In this context,

x_i	is the measurement value (result) of the participating laboratory
\bar{X}	assigned value the target value for the assessment of the performance of the participants (3 significant digits), normally the average value of the participants' results after removal of outliers; if this approach is not applicable, the target value is assigned according to the procedure given in section E4
$U(x_i)$	expanded measurement uncertainty for the result of the participating laboratory, k=2
$U(\bar{X})$	expanded measurement uncertainty for the assigned value, k=2

E2.3. Performance evaluation z-Score and E_n-Score

Interpretation of z-Scores:

- $|z\text{-Score}| \leq 2.0$ good result
- $2.0 < |z\text{-Score}| < 3.0$ questionable result
- $|z\text{-Score}| \geq 3.0$ unsatisfactory result

Note: In case of assessment of the participants' performance by z-scores the measurement uncertainty of the participants' results is not taken into account. The difference between result of participants and the assigned value is evaluated by the criteria.

Interpretation of E_n-Scores:

- $|E_n\text{-Score}| \leq 1.0$ satisfactory performance
- $|E_n\text{-Score}| > 1.0$ unsatisfactory performance

Note: In case of assessment of the participants' performance by E_n-Scores the expanded measurement uncertainties for the results and for the assigned values are taken into account. $|E_n\text{-Score}| > 1.0$ might indicate to check the measurement uncertainty estimation or might point out to correct a measurement problem.

E3. Representation and interpretation of measurement results

The parameter-oriented report provides the measurement values (results) including uncertainty ($\pm U$), recovery rate, calculated z-Score and the outliers in tabular form. The results listed in the table are also represented graphically.

The laboratory oriented report shows the results of the individual laboratories (anonymous), including the measurement uncertainty ($\pm U$), recovery rates, z-Scores and additionally evaluation of E_n -Scores on separate pages.

The tables also contain the basis for the data assessment as the assigned values and expanded measurement uncertainties and the criteria.

An annotation of the tables and graphics is given in section E5.

E4. Explanatory notes

As explained in section E2, the z-Score can also be calculated using the reproducibility standard deviation, calculated from the participants' results (after removal of outliers) in the relevant test round. It might occur that the z-Score between -2 and 2 covers a large range of measurement values when the variance of the results is high. On the other hand, the range of good results can be very narrow, when the variation of the participants' results is small.

The recovery rate is calculated for the individual result based on the assigned value and is thus independent of the reproducibility standard deviation. In the case of a high variance of the results, participants should also consider recovery rates as additional criteria to decide on the necessity of internal quality assurance measures.

As a result of a long-term evaluation of 9 proficiency testing rounds (2013–2021 in real samples, evaluation criteria (RSD_{pool}) were calculated.

These criteria were compared with the relative reproducibility standard deviation (vR) of the current proficiency testing.

Parameters Orthophosphate and Nitrate sample N160 A and parameters pH-value, Boron, Orthophosphate and Nitrate sample N160 B: The assigned values calculated based on the participant results were outside of the measurement uncertainty of the control test value or below determination limit (Boron – N160 B; Orthophosphate – N160 A and B) and thus traceability could not be proven by this procedure. Therefore, new assigned values were defined by the group of accredited participating laboratories after outlier-assessment.

Parameter Orthophosphate in sample N160 A and N160 B: For this parameter, the reproducibility standard deviation (vR) based on the results of the accredited participants of 16 % was chosen for assessment.

Scores for all other listed parameters were calculated according to E2.

E5. Annotations on tables and charts

E5.1. Information and abbreviations in tables

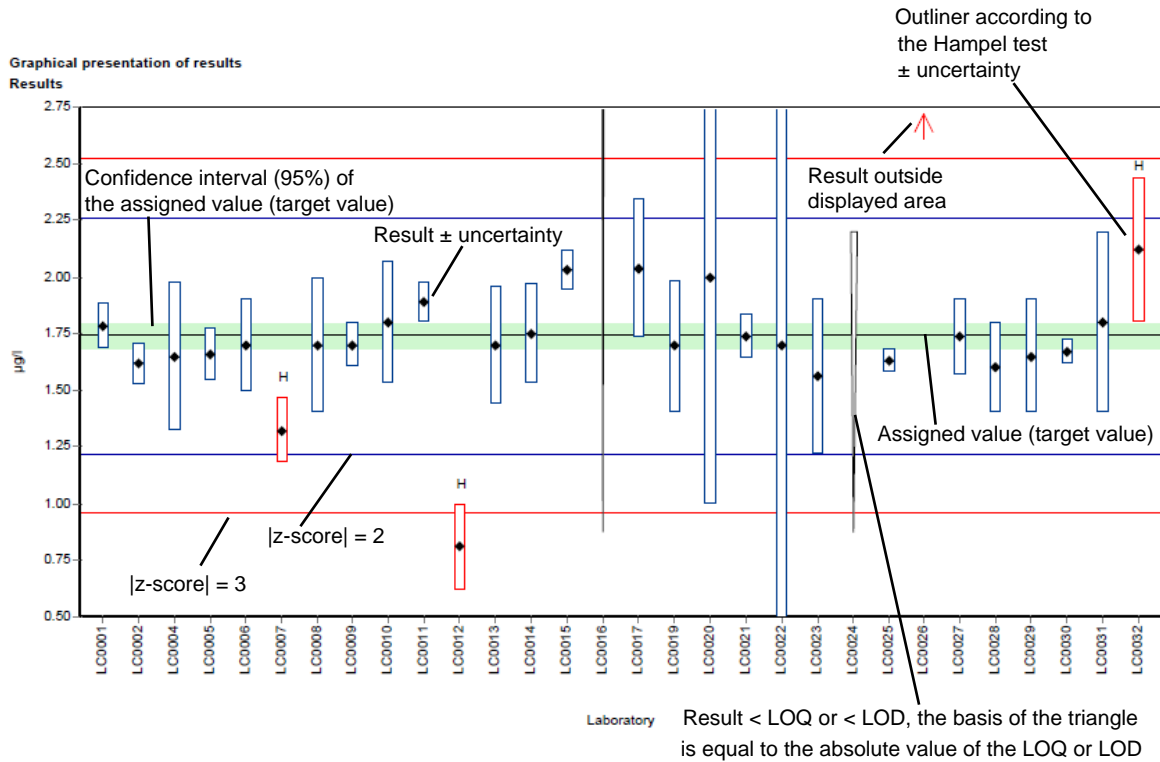
Parameter	Analyte identifier
Sample	Sample identifier
Unit	Given unit for result and uncertainty (e.g. mg/l)
Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criteria	Specified value for the determination of the z-score in the given unit (3 significant digits)
Criteria [%]	Specified value for the determination of the z-score in % of the assigned value (2 significant digits)
Mean	Mean of the participants results, without outliers (3 significant digits)
CI (99 %)	99 % confidence interval (3 significant digits)
Minimum	Minimum of all submitted results, after removal of outliers (3 significant digits)
Maximum	Maximum of all submitted results, after removal of outliers (3 significant digits)
SD	Reproducibility standard deviation, calculated from the participants results, after removal of outliers (3 significant digits)
RSD %	Reproducibility standard deviation, calculated from the participants results relative to the target value, given in %, after removal of outliers (2 significant digits)
Control test value ± U (k=2)	Mean of control test value ± expanded measurement uncertainty (3 significant digits)
Labcode	Laboratory identifier (anonymized)
Result ± U	Result as indicated by participant (max. 5 decimal places) combined measurement uncertainty without expansion factor (k=1), as indicated by participant (max. 5 decimal places)
LOQ	Limit of quantification

LOD	Limit of detection
Recovery	Recovery rate in % based on assigned value (target value) (3 significant digits, max. one decimal place given)
z-Score	Deviation of result based on the assigned value (target value) given as a multiple of the criteria (3 significant digits, max. 2 decimal places given)
E _n -Score	Deviation of result based on the assigned value (target value) given as a multiple of the combined expanded measurement uncertainty of the participant's results and expanded measurement uncertainty for the assigned value (3 significant digits, max. 2 decimal places given). Note: E _n -Score assessment takes into account the measurement uncertainty of the participants.
-	No data available or no calculation possible
Comments	Comment on the respective result (e.g. H, FN, FP)
H	Outlier according to Hampel-Test
FN	False negative – for a result < LOQ or result < LOD: The absolute value of the LOQ or LOD fulfils the condition of an outlier according to the Hampel test.
FP	False positive – for parameters where no target value is available because of a too low analyte content (n < 6): Result that exceeds the median of the absolute values of the transmitted LOQs or LODs by more than 100 %.
Standard deviation	Reproducibility standard deviation, calculated from the participants results (3 significant digits)
Rel. standard deviation	Reproducibility standard deviation, calculated from the participants results relative to the target value, given in %, (3 significant digits)
n	Number of results
*	mark for additional comments
**	mark for parameters outside the scope of accreditation according to EN ISO/IEC 17043

E5.2. Graphical presentation of results

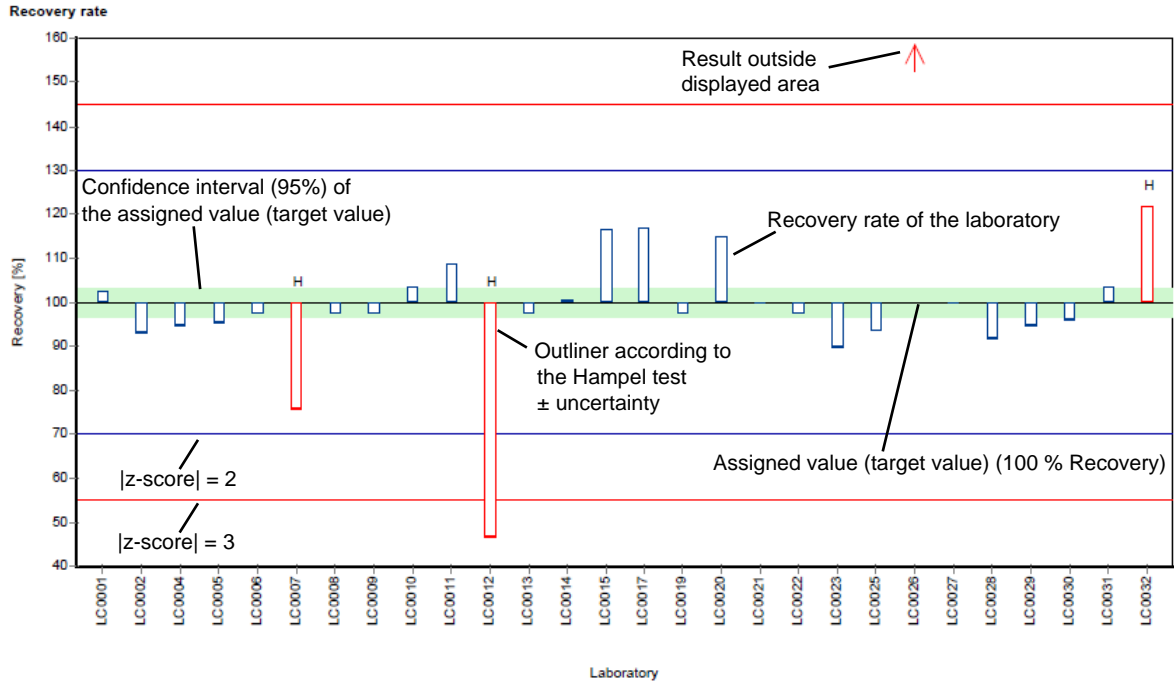
The graphic representation in the report is explained below by means of commented example diagrams:

Example chart: Results



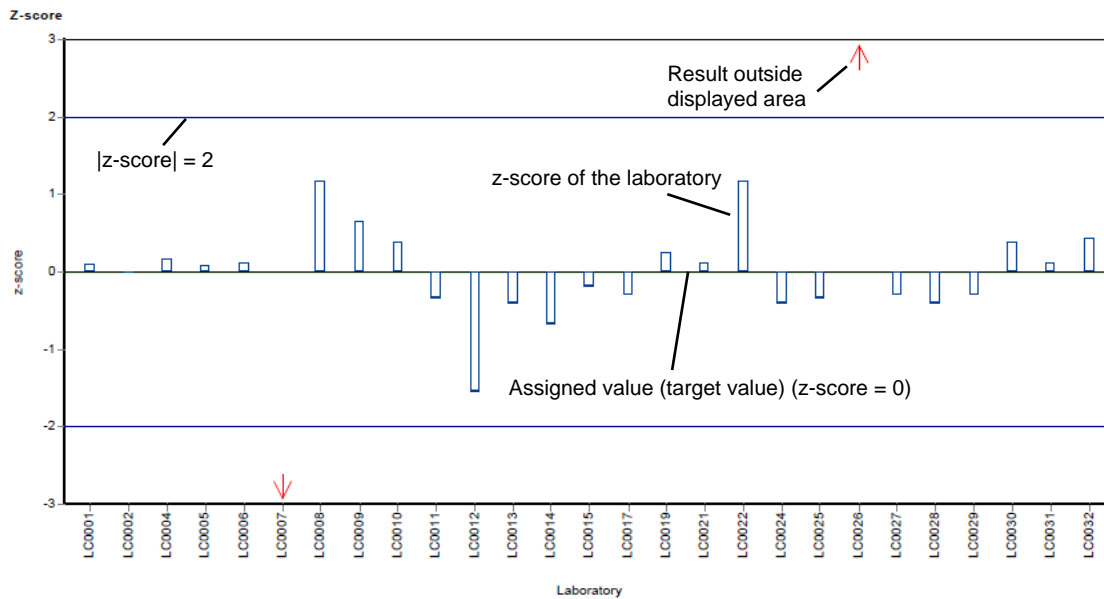
Different analysis methods are represented with different colors.

Example chart: Recovery



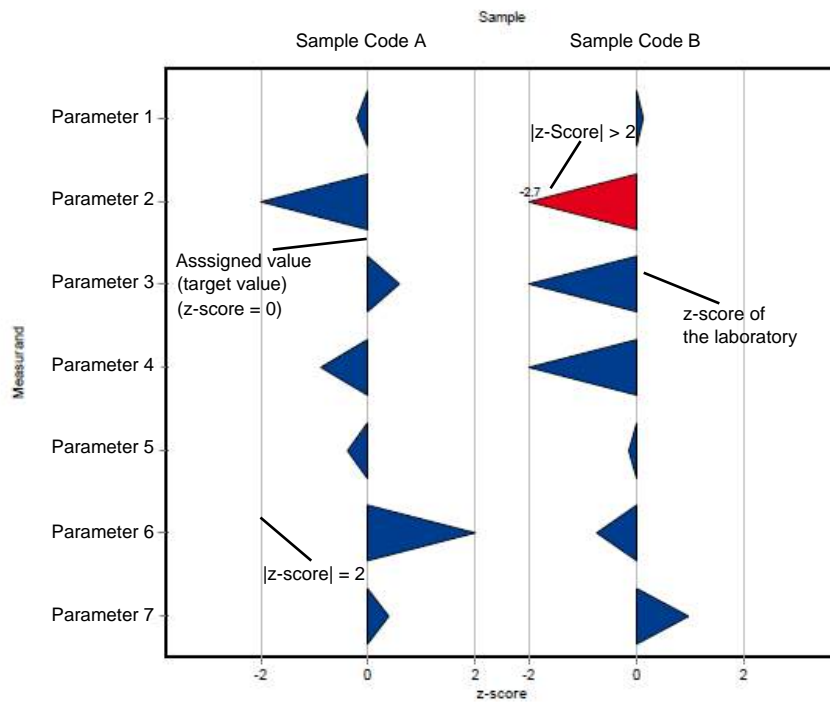
Different analysis methods are represented with different colors.

Example chart: z-score

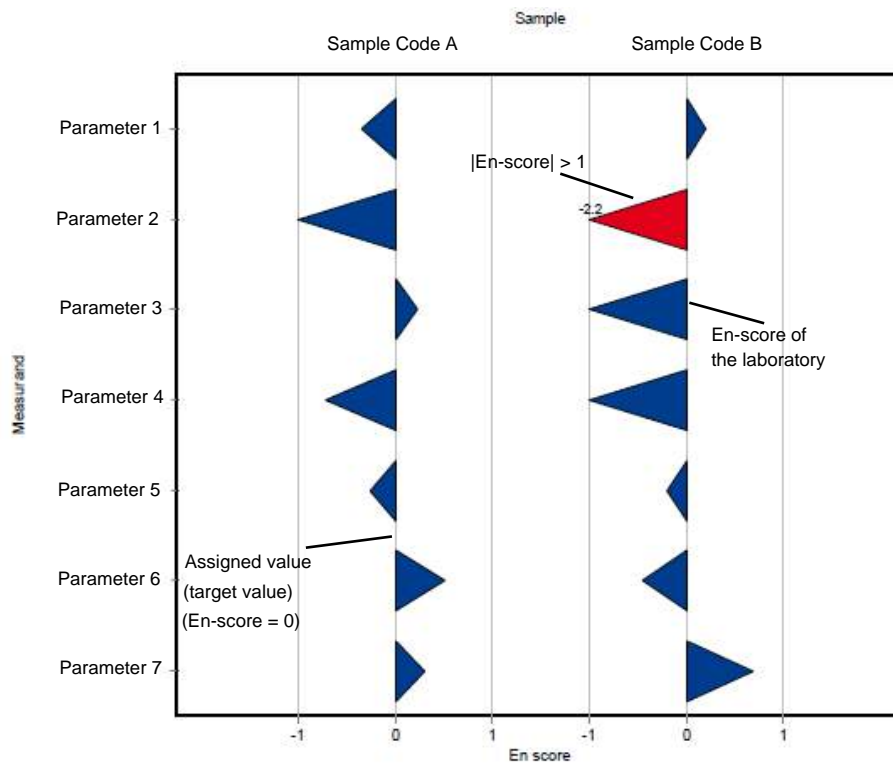


Different analysis methods are represented with different colors.

Example chart: z-score (laboratory oriented report)



Example chart: En-score (laboratory oriented report)



E6. Summary

E6.1. Table of assigned values

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
Alkalinity Ks 4,3	N160 A	mmol/l	7.95 ±	0.0264	0.159	2
	N160 B	mmol/l	3.52 ±	0.014	0.0704	2
Ammonium (as NH ₄)	N160 A	mg/l	0.0793 ±	0.00266	0.00952	12
	N160 B	mg/l	0.285 ±	0.00486	0.0341	12
Boron	N160 A	mg/l	0.0747 ±	0.00166	0.00822	11
	N160 B	mg/l	0.0149 ±	0.000559	0.00164	11
Calcium	N160 A	mg/l	143 ±	1.42	4.42	3.1
	N160 B	mg/l	61.3 ±	0.649	1.9	3.1
Chloride	N160 A	mg/l	72.1 ±	0.47	2.89	4
	N160 B	mg/l	22.3 ±	0.157	0.891	4
DOC (as C)	N160 A DOC	mg/l	2.08 ±	0.0585	0.208	10
	N160 B DOC	mg/l	2.63 ±	0.0618	0.263	10
El. conductivity (25°C)	N160 A	µS/cm	1050 ±	3.6	13.6	1.3
	N160 B	µS/cm	474 ±	1.13	6.16	1.3
Hydrogen carbonate	N160 A	mg/l	483 ±	1.82	9.66	2
	N160 B	mg/l	213 ±	1.3	4.26	2
Magnesium	N160 A	mg/l	35.3 ±	0.274	1.41	4
	N160 B	mg/l	14.9 ±	0.135	0.598	4
Nitrate (as NO ₃)	N160 A	mg/l	23.8 ±	0.233	1.19	5
	N160 B	mg/l	13.4 ±	0.132	0.672	5
Nitrite (as NO ₂)	N160 A	mg/l	0.288 ±	0.00359	0.0153	5.3
	N160 B	mg/l	0.193 ±	0.00273	0.0102	5.3
Orthophosphate (as PO ₄)	N160 A	mg/l	0.0617 ±	0.00324	0.00987	16
	N160 B	mg/l	0.109 ±	0.0055	0.0174	16
pH-value	N160 A	-	7.69 ±	0.0265	0.154	2
	N160 B	-	8.07 ±	0.019	0.161	2
Potassium	N160 A	mg/l	5.32 ±	0.0504	0.277	5.2
	N160 B	mg/l	2.18 ±	0.0235	0.113	5.2
Sodium	N160 A	mg/l	31.6 ±	0.245	1.07	3.4
	N160 B	mg/l	14.3 ±	0.118	0.485	3.4
Sulfate (as SO ₄)	N160 A	mg/l	53.9 ±	0.416	1.78	3.3
	N160 B	mg/l	29.5 ±	0.207	0.973	3.3
Total-P (as PO ₄)	N160 A	mg/l	1.19 ±	0.0184	0.0891	7.5
	N160 B	mg/l	0.925 ±	0.0149	0.0694	7.5
Total hardness	N160 A	mmol/l	5 ±	0.0376	0.15	3
	N160 B	mmol/l	2.14 ±	0.0185	0.0643	3
Total nitrogen	N160 A	mg/l	5.67 ±	0.147	0.47	8.3
	N160 B	mg/l	3.42 ±	0.0995	0.284	8.3

E6.2. Summary of results, after removal of outliers

Parameter	Sample	Number of results for calculation	Number of outliers	Unit	Mean	± CI (99%)	Minimum	Maximum	sR	vR [%]
Alkalinity Ks 4,3	N160 A	51	6	mmol/l	7.95	± 0.0395	7.69	8.2	0.0941	1.2
	N160 B	51	6	mmol/l	3.52	± 0.0211	3.38	3.65	0.0502	1.4
Ammonium (as NH ₄)	N160 A	55	5	mg/l	0.0793	± 0.00399	0.0526	0.101	0.00987	12
	N160 B	54	6	mg/l	0.285	± 0.00729	0.244	0.334	0.0179	6.3
Boron	N160 A	31	4	mg/l	0.0747	± 0.0025	0.066	0.088	0.00463	6.2
	N160 B	24	3	mg/l	0.0148	± 0.000773	0.0122	0.0177	0.00126	8.5
Calcium	N160 A	56	3	mg/l	143	± 2.13	129	155	5.31	3.7
	N160 B	58	2	mg/l	61.3	± 0.973	56.2	68.1	2.47	4
Chloride	N160 A	59	5	mg/l	72.1	± 0.705	67.4	76.1	1.81	2.5
	N160 B	62	2	mg/l	22.3	± 0.235	20.7	23.9	0.618	2.8
DOC (as C)	N160 A DOC	47	4	mg/l	2.08	± 0.0877	1.72	2.71	0.2	9.6
	N160 B DOC	50	1	mg/l	2.63	± 0.0928	2.2	3.18	0.219	8.3
El. conductivity (25°C)	N160 A	63	8	µS/cm	1050	± 5.39	1010	1090	14.3	1.4
	N160 B	60	11	µS/cm	474	± 1.7	461	482	4.38	0.92
Hydrogen carbonate	N160 A	38	7	mg/l	483	± 2.72	469	496	5.6	1.2
	N160 B	42	3	mg/l	213	± 1.95	202	220	4.21	2
Magnesium	N160 A	58	2	mg/l	35.3	± 0.41	32.6	38	1.04	3
	N160 B	59	1	mg/l	14.9	± 0.202	14	16.5	0.517	3.5
Nitrate (as NO ₃)	N160 A	61	4	mg/l	23.7	± 0.31	21.8	26	0.806	3.4
	N160 B	61	4	mg/l	13.4	± 0.182	12.3	14.5	0.474	3.5
Nitrite (as NO ₂)	N160 A	54	6	mg/l	0.288	± 0.00538	0.252	0.32	0.0132	4.6
	N160 B	57	4	mg/l	0.193	± 0.0041	0.165	0.217	0.0103	5.3
Orthophosphate (as PO ₄)	N160 A	46	5	mg/l	0.0607	± 0.00454	0.04	0.093	0.0103	17
	N160 B	49	3	mg/l	0.108	± 0.00774	0.071	0.15	0.0181	17
pH-value	N160 A	69	2	-	7.69	± 0.0398	7.47	8.01	0.11	1.4
	N160 B	68	3	-	8.07	± 0.0289	7.9	8.25	0.0795	0.98
Potassium	N160 A	52	5	mg/l	5.32	± 0.0757	4.95	5.75	0.182	3.4

Parameter	Sample	Number of results for calculation	Number of outliers	Unit	Mean	± CI (99%)	Minimum	Maximum	sR	vR [%]
Potassium	N160 B	51	5	mg/l	2.18	± 0.0352	2.03	2.38	0.0839	3.8
Sodium	N160 A	55	2	mg/l	31.6	± 0.367	29.2	33.7	0.908	2.9
Sulfate (as SO ₄)	N160 B	52	5	mg/l	14.3	± 0.176	13.2	15.3	0.424	3
	N160 A	57	3	mg/l	53.9	± 0.624	49.6	56.9	1.57	2.9
Total-P (as PO ₄)	N160 B	56	4	mg/l	29.5	± 0.311	27.6	31.6	0.775	2.6
	N160 A	50	10	mg/l	1.19	± 0.0276	0.99	1.36	0.0651	5.5
Total hardness	N160 B	52	8	mg/l	0.925	± 0.0223	0.8	1.06	0.0536	5.8
	N160 A	47	5	mmol/l	5	± 0.0564	4.7	5.27	0.129	2.6
Total nitrogen	N160 B	47	5	mmol/l	2.14	± 0.0277	2	2.27	0.0634	3
	N160 A	33	1	mg/l	5.67	± 0.221	4.99	6.75	0.423	7.5
	N160 B	32	2	mg/l	3.42	± 0.149	2.9	4.02	0.281	8.2

E7. Parameterorientierte Auswertung / Parameter oriented report

Alkalinity Ks 4,3	35
Ammonium (as NH ₄)	45
Boron	55
Calcium.....	65
Chloride	75
DOC (as C).....	85
El. conductivity (25°C)	95
Hydrogen carbonate	105
Magnesium	115
Nitrate (as NO ₃)	125
Nitrite (as NO ₂).....	135
Orthophosphate (as PO ₄).....	145
pH-value	155
Potassium.....	165
Sodium	175
Sulfate (as SO ₄)	185
Total-P (as PO ₄).....	195
Total hardness.....	205
Total nitrogen.....	215

Parameter oriented report

N160 A

Alkalinity Ks 4,3

Unit	mmol/l
Assigned value ± U (k=2)	7.95 ± 0.0264
Criterion	0.159 (2 %)
Minimum - Maximum	7.69 - 8.2
Control test value ± U (k=2)	7.810 ± 0.781

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	7.69	0.38	96.8	-1.61	
LC0003	7.95	0.363	100	0.03	
LC0004	-	-	-	-	
LC0005	7.94	0.24	99.9	-0.03	
LC0006	7.95	0.38	100	0.03	
LC0007	7.69	0.7685	96.8	-1.61	
LC0008	-	-	-	-	
LC0009	7.94	0.4	99.9	-0.03	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	7.96	0.05	100	0.09	
LC0015	7.9	0.223	99.4	-0.28	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	7.82	1.84	98.4	-0.79	
LC0019	8.13	0.1	102	1.16	
LC0020	7.95	0.24	100	0.03	
LC0021	8.022	0.802	101	0.48	
LC0022	8	0.12	101	0.34	
LC0023	8	0.01	101	0.34	
LC0024	7.97	0.01	100	0.16	
LC0025	7.97	0.39	100	0.16	
LC0026	7.961	0.1	100	0.1	
LC0027	7.13	0.29	89.7	-5.13	H
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	5.1	0.25	64.2	-17.9	H
LC0031	8.02	0.1	101	0.47	
LC0032	7.85	0.31	98.8	-0.6	
LC0033	7.95	0.19	100	0.03	
LC0034	7.91	0.24	99.6	-0.22	
LC0035	8	0.43	101	0.34	
LC0036	7.9	0.79	99.4	-0.28	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	7.94	0.79	99.9	-0.03	
LC0040	8.04	0.24	101	0.6	
LC0041	7.9	0.32	99.4	-0.28	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Alkalinity Ks 4,3

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	7.91	0.025	99.6	-0.22	
LC0043	7.867	0.36	99	-0.49	
LC0044	8	0.8	101	0.34	
LC0045	8.196	0.4098	103	1.58	
LC0046	7.85	0.79	98.8	-0.6	
LC0047	7.98	0.15	100	0.22	
LC0048	-	-	-	-	
LC0049	7.86	0.107	98.9	-0.54	
LC0050	8.05	0.01	101	0.66	
LC0051	7.65	0.8	96.3	-1.86	H
LC0052	7.92	1.8	99.7	-0.16	
LC0053	7.724	0.066	97.2	-1.39	
LC0054	8.01	0.216	101	0.41	
LC0055	-	-	-	-	
LC0056	7.93	0.11	99.8	-0.1	
LC0057	-	-	-	-	
LC0058	8.017	0.817	101	0.45	
LC0059	7.98	0.41	100	0.22	
LC0060	7.99	0.2	101	0.28	
LC0061	7.89	1.184	99.3	-0.35	
LC0062	-	-	-	-	
LC0063	3.94	0.02	49.6	-25.2	H
LC0064	7.94	0.08	99.9	-0.03	
LC0065	7.84	0.58	98.7	-0.66	
LC0066	7.92	0.52	99.7	-0.16	
LC0067	7.53	0.48	94.8	-2.61	H
LC0068	8.1	0.4	102	0.97	
LC0069	-	-	-	-	
LC0070	7.9	0.36	99.4	-0.28	
LC0071	-	-	-	-	
LC0072	7.99	0.088	101	0.28	
LC0073	7.99	0.209	101	0.28	
LC0074	-	-	-	-	
LC0075	8	0.099	101	0.34	
LC0076	8	0.8	101	0.34	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	7.23	0.723	91	-4.5	H
LC0080	-	-	-	-	
LC0081	-	-	-	-	
LC0082	-	-	-	-	

Characteristics of parameter

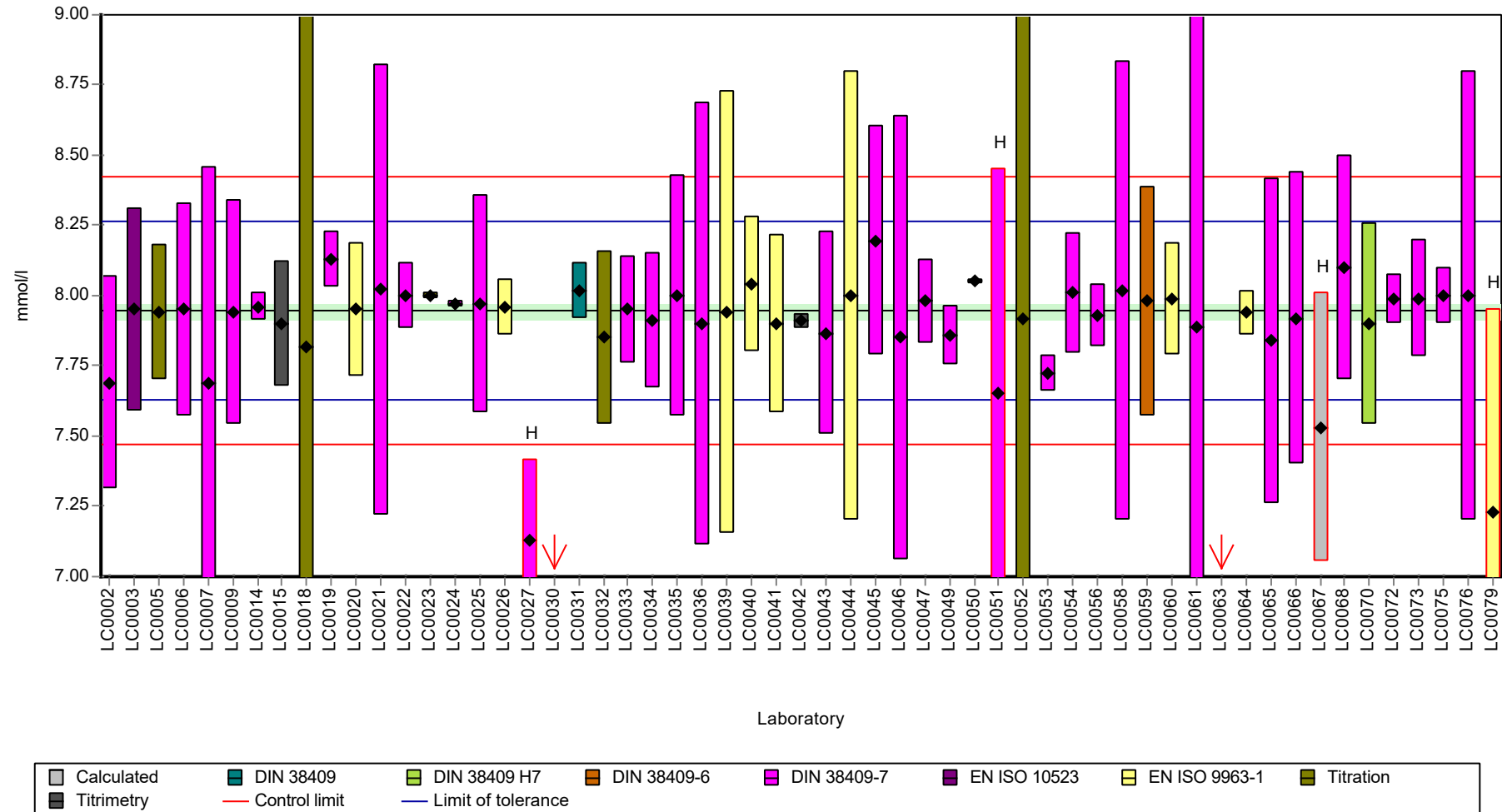
	all results	without outliers	Unit
Mean ± CI (99%)	7.79 ± 0.263	7.95 ± 0.0395	mmol/l
Minimum	3.94	7.69	mmol/l
Maximum	8.2	8.2	mmol/l
Standard deviation	0.662	0.0941	mmol/l
rel. standard deviation	8.51	1.18	%
n	57	51	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Alkalinity Ks 4,3

Graphical presentation of results

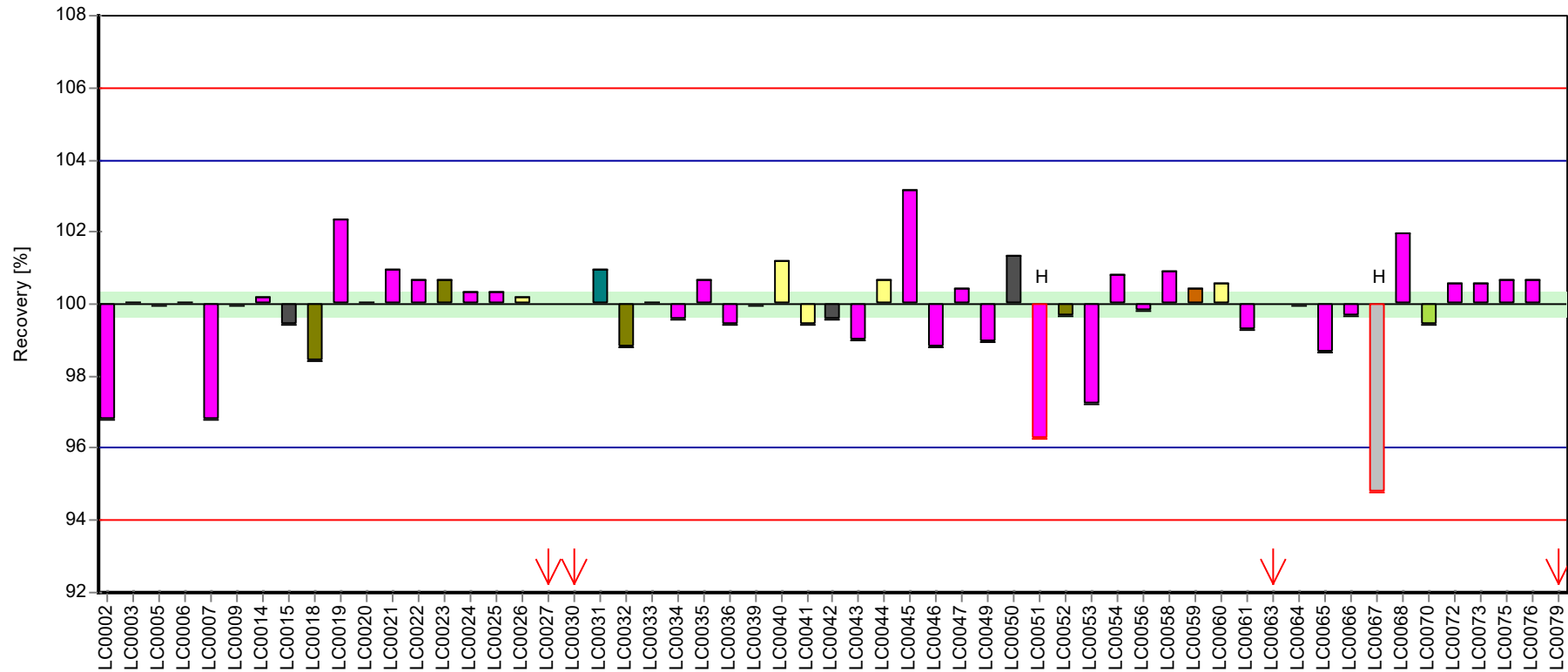
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Alkalinity Ks 4,3

Recovery rate



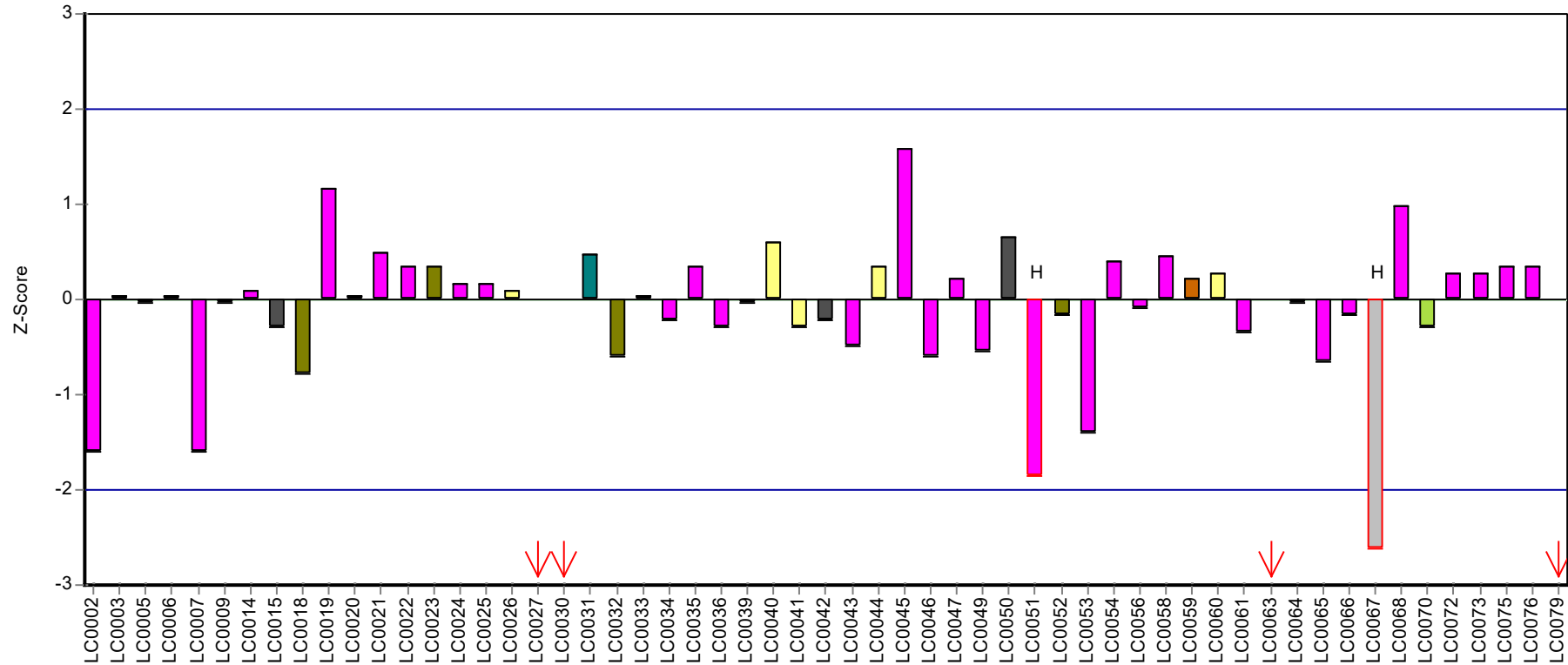
Laboratory



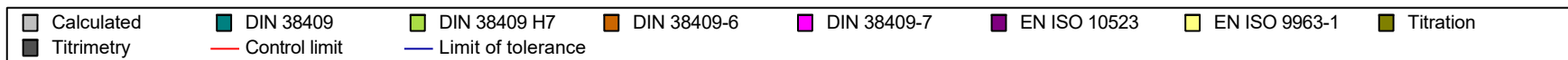
Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Alkalinity Ks 4,3

Z-score



Laboratory



Parameter oriented report

N160 B

Alkalinity Ks 4,3

Unit	mmol/l
Assigned value ± U (k=2)	3.52 ± 0.014
Criterion	0.0704 (2 %)
Minimum - Maximum	3.38 - 3.65
Control test value ± U (k=2)	3.430 ± 0.343

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	3.397	0.17	96.6	-1.72	
LC0003	3.5	0.16	99.5	-0.25	
LC0004	-	-	-	-	
LC0005	3.52	0.106	100	0.03	
LC0006	3.59	0.17	102	1.03	
LC0007	3.42	0.3415	97.2	-1.39	
LC0008	-	-	-	-	
LC0009	3.52	0.18	100	0.03	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	3.59	0.02	102	1.03	
LC0015	3.51	0.0989	99.8	-0.11	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	3.49	0.92	99.2	-0.4	
LC0019	3.58	0.06	102	0.88	
LC0020	3.49	0.1	99.2	-0.4	
LC0021	3.537	0.354	101	0.27	
LC0022	3.55	0.055	101	0.46	
LC0023	3.56	0.01	101	0.6	
LC0024	3.5	0.044	99.5	-0.25	
LC0025	3.5	0.18	99.5	-0.25	
LC0026	3.532	0.1	100	0.2	
LC0027	3.43	0.01	97.5	-1.25	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	2.2	0.11	62.5	-18.7	H
LC0031	3.54	0.05	101	0.32	
LC0032	3.48	0.14	98.9	-0.54	
LC0033	3.51	0.08	99.8	-0.11	
LC0034	3.57	0.11	101	0.74	
LC0035	3.5	0.19	99.5	-0.25	
LC0036	3.51	0.35	99.8	-0.11	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	3.51	0.35	99.8	-0.11	
LC0040	3.57	0.11	101	0.74	
LC0041	3.52	0.14	100	0.03	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Alkalinity Ks 4,3

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	3.52	0.025	100	0.03	
LC0043	3.479	0.159	98.9	-0.55	
LC0044	3.53	0.35	100	0.17	
LC0045	3.645	0.182	104	1.81	
LC0046	3.5	0.35	99.5	-0.25	
LC0047	3.49	0.07	99.2	-0.4	
LC0048	-	-	-	-	
LC0049	3.48	0.0475	98.9	-0.54	
LC0050	3.5	0.13	99.5	-0.25	
LC0051	3.35	0.3	95.2	-2.39	H
LC0052	3.72	0.97	106	2.87	H
LC0053	3.376	0.029	96	-2.02	
LC0054	3.54	0.0956	101	0.32	
LC0055	-	-	-	-	
LC0056	3.6	0.11	102	1.17	
LC0057	-	-	-	-	
LC0058	3.553	0.3553	101	0.5	
LC0059	3.52	0.18	100	0.03	
LC0060	3.51	0.1	99.8	-0.11	
LC0061	3.55	0.533	101	0.46	
LC0062	-	-	-	-	
LC0063	1.73	0.01	49.2	-25.4	H
LC0064	3.5	0.04	99.5	-0.25	
LC0065	3.47	0.26	98.6	-0.68	
LC0066	3.47	0.24	98.6	-0.68	
LC0067	3.31	0.24	94.1	-2.95	H
LC0068	3.6	0.2	102	1.17	
LC0069	-	-	-	-	
LC0070	3.56	0.162	101	0.6	
LC0071	-	-	-	-	
LC0072	3.49	0.038	99.2	-0.4	
LC0073	3.52	0.119	100	0.03	
LC0074	-	-	-	-	
LC0075	3.529	0.044	100	0.16	
LC0076	3.55	0.355	101	0.46	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	3.29	0.33	93.5	-3.24	H
LC0080	-	-	-	-	
LC0081	-	-	-	-	
LC0082	-	-	-	-	

Characteristics of parameter

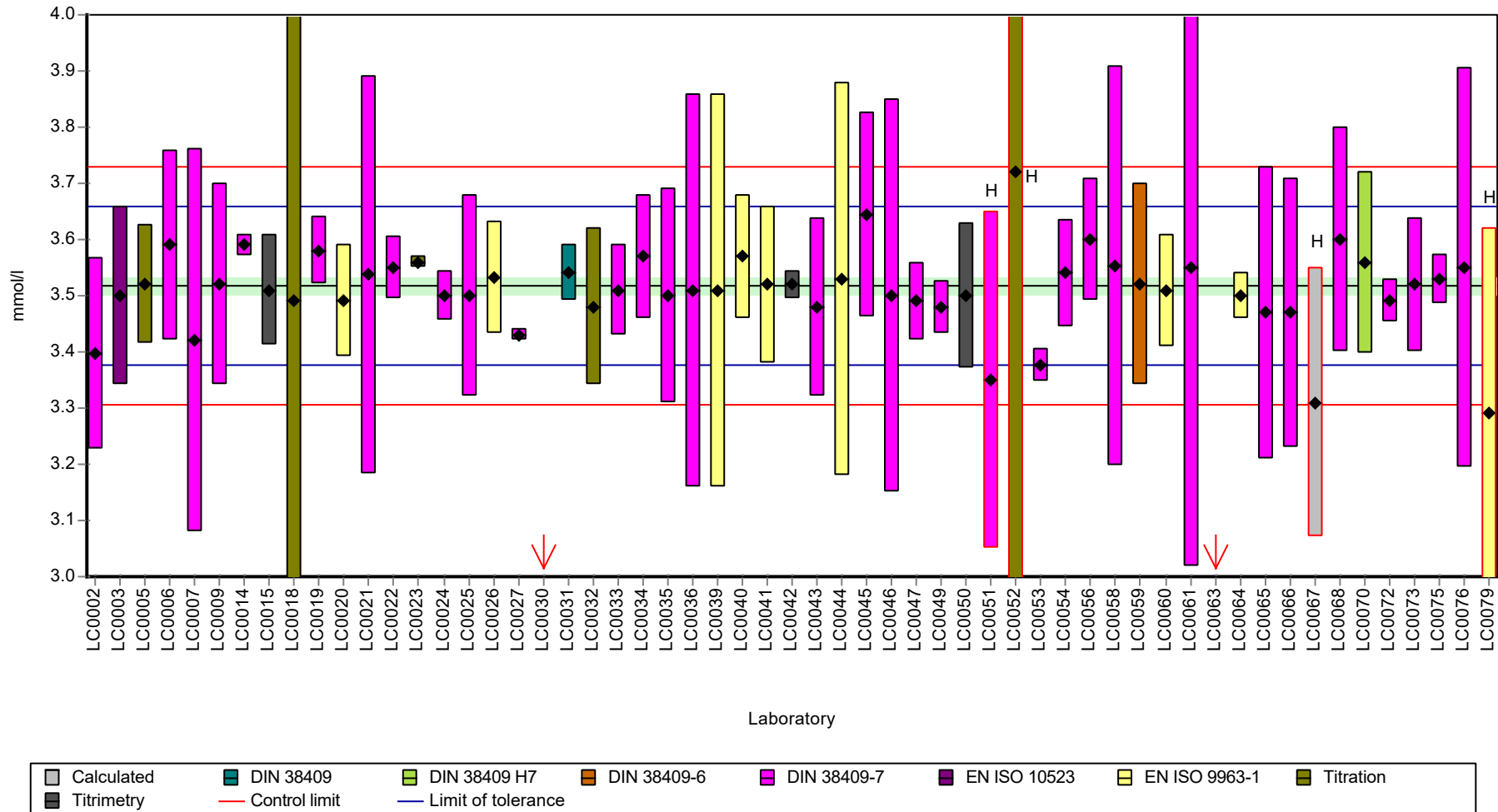
	all results	without outliers	Unit
Mean ± CI (99%)	3.46 ± 0.119	3.52 ± 0.0211	mmol/l
Minimum	1.73	3.38	mmol/l
Maximum	3.72	3.65	mmol/l
Standard deviation	0.299	0.0502	mmol/l
rel. standard deviation	8.65	1.43	%
n	57	51	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Alkalinity Ks 4,3

Graphical presentation of results

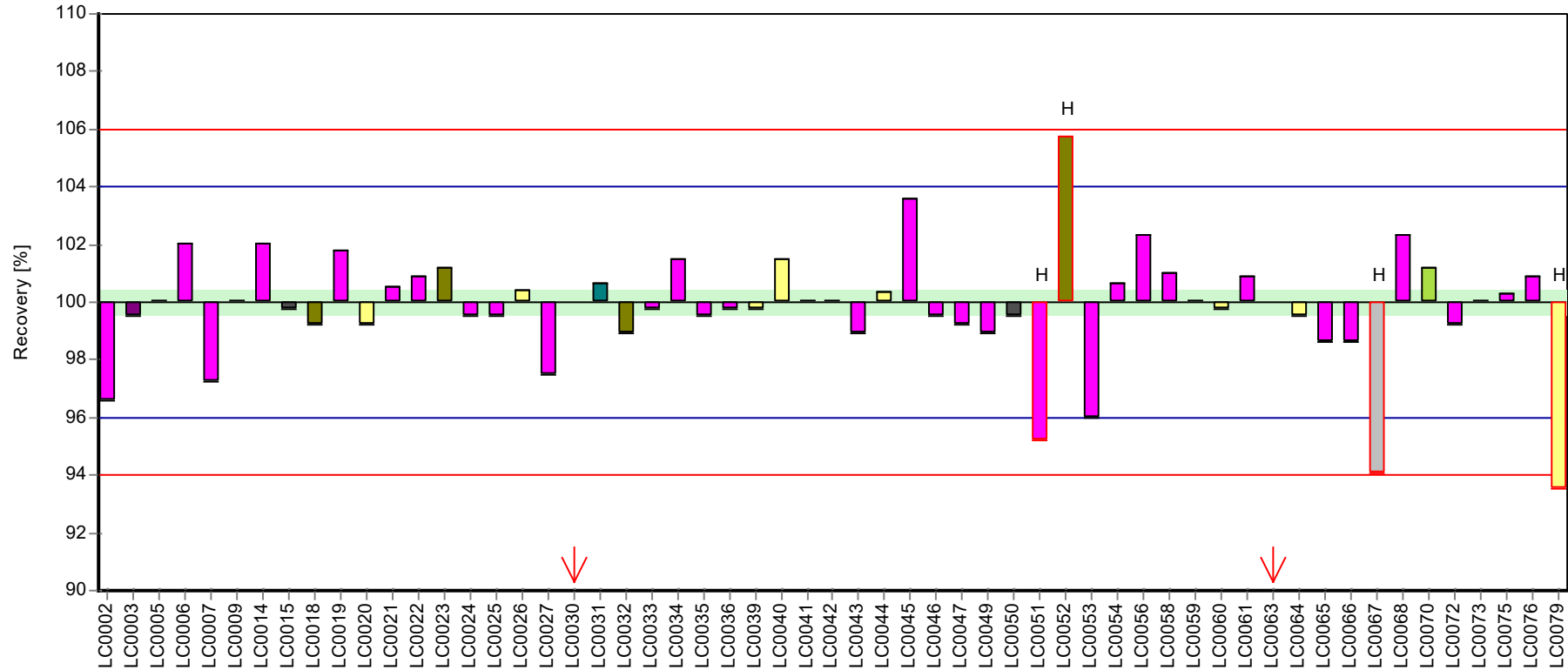
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Alkalinity Ks 4,3

Recovery rate



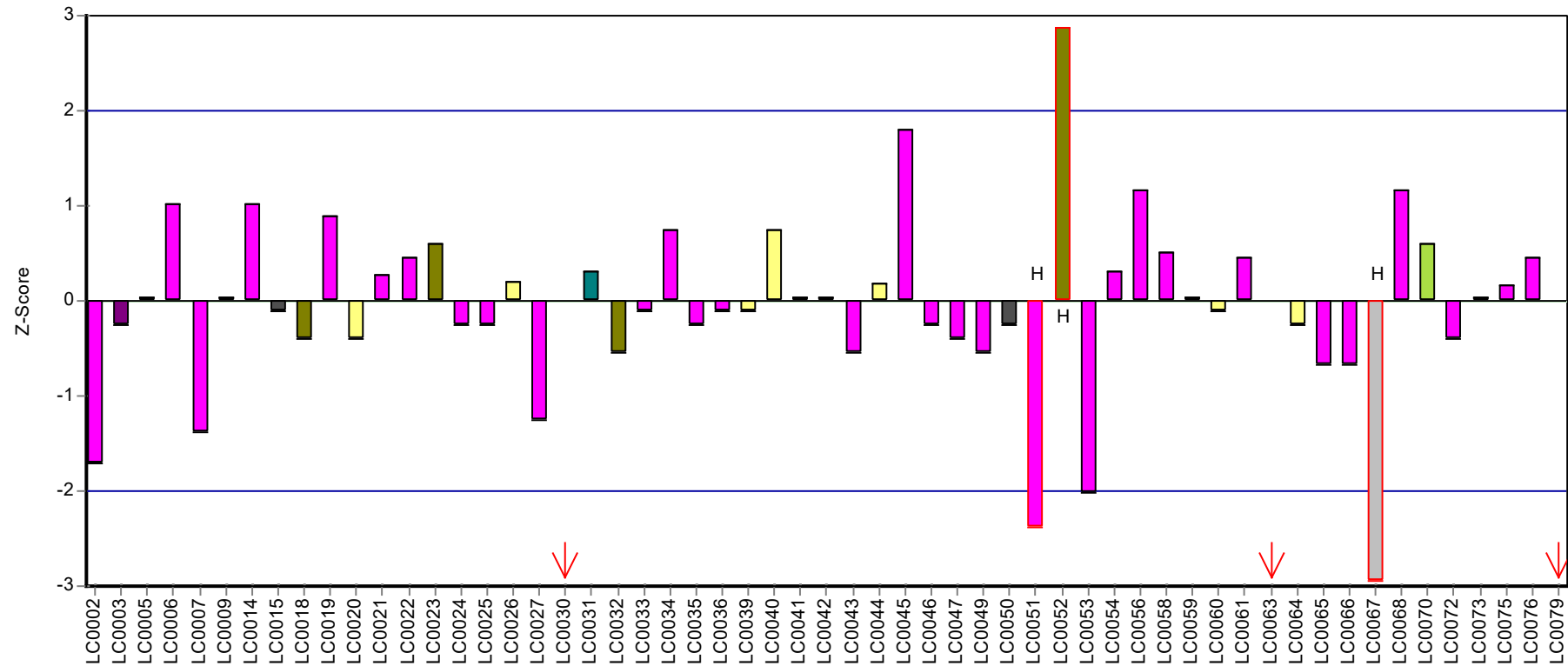
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Alkalinity Ks 4,3

Z-score



Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Ammonium (as NH₄)

Parameter oriented report

N160 A

Ammonium (as NH₄)

Unit	mg/l
Assigned value ± U (k=2)	0.0793 ± 0.00266
Criterion	0.00952 (12 %)
Minimum - Maximum	0.0526 - 0.101
Control test value ± U (k=2)	0.07160 ± 0.0107

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.084	0.019	106	0.49	
LC0002	0.0865	0.0043	109	0.75	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	0.254	0.025	320	18.3	H
LC0006	0.0703	0.0049	88.6	-0.95	
LC0007	0.081	0.01207	102	0.17	
LC0008	-	-	-	-	
LC0009	0.09	0.01	113	1.12	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.09	0.0068	113	1.12	
LC0014	0.084	0.004	106	0.49	
LC0015	0.0723	0.0109	91.1	-0.74	
LC0016	0.098	0.01	124	1.96	
LC0017	0.0881	0.0067	111	0.92	
LC0018	0.082	0.013	103	0.28	
LC0019	0.089	0.015	112	1.01	
LC0020	-	-	-	-	
LC0021	0.0794	0.0159	100	0.01	
LC0022	0.081	0.007	102	0.17	
LC0023	0.066	0.004	83.2	-1.4	
LC0024	0.0962	0.0076	121	1.77	
LC0025	0.08	0.008	101	0.07	
LC0026	0.0589	0.003	74.2	-2.15	
LC0027	0.088	0.004	111	0.91	
LC0028	0.01	0.004	12.6	-7.28	H
LC0029	-	-	-	-	
LC0030	0.0835	0.006	105	0.44	
LC0031	0.0695	0.0088	87.6	-1.03	
LC0032	0.077	0.019	97	-0.25	
LC0033	-	-	-	-	
LC0034	0.083	0.021	105	0.38	
LC0035	0.075	0.01	94.5	-0.46	
LC0036	0.078	0.008	98.3	-0.14	
LC0037	-	-	-	-	
LC0038	0.0801	0.00336	101	0.08	
LC0039	0.0724	0.0039	91.2	-0.73	
LC0040	0.0715	0.001	90.1	-0.82	
LC0041	0.068	0.018	85.7	-1.19	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Ammonium (as NH₄)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	0.08	0.01	101	0.07	
LC0043	-	-	-	-	
LC0044	0.087	0.008	110	0.8	
LC0045	0.081	0.008	102	0.17	
LC0046	0.067	0.0067	84.4	-1.3	
LC0047	0.064	0.002	80.7	-1.61	
LC0048	-	-	-	-	
LC0049	-	-	-	-	
LC0050	0.03	0.003	37.8	-5.18	H
LC0051	0.078	0.02	98.3	-0.14	
LC0052	0.082	0.016	103	0.28	
LC0053	0.0834	0.0043	105	0.43	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	0.079	0.055	99.6	-0.04	
LC0057	-	-	-	-	
LC0058	0.08	0.02	101	0.07	
LC0059	0.087	0.023	110	0.8	
LC0060	0.079	0.002	99.6	-0.04	
LC0061	0.072	0.0072	90.7	-0.77	
LC0062	0.0535	0.008	67.4	-2.71	
LC0063	0.0526	0.002	66.3	-2.81	
LC0064	-	-	-	-	
LC0065	0.088	0.009	111	0.91	
LC0066	0.101	0.016	127	2.27	
LC0067	0.09	0.02	113	1.12	
LC0068	0.075	0.006	94.5	-0.46	
LC0069	0.078	0.01	98.3	-0.14	
LC0070	0.085	0.01	107	0.59	
LC0071	-	-	-	-	
LC0072	0.0807	0.0035	102	0.14	
LC0073	0.0916	0.0012	115	1.29	
LC0074	-	-	-	-	
LC0075	0.0765	0.014	96.4	-0.3	
LC0076	0.07	0.01	88.2	-0.98	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	0.08	0.008	101	0.07	
LC0080	0.453	0.0104	571	39.2	H
LC0081	0.042	0.003	52.9	-3.92	H
LC0082	-	-	-	-	

Characteristics of parameter

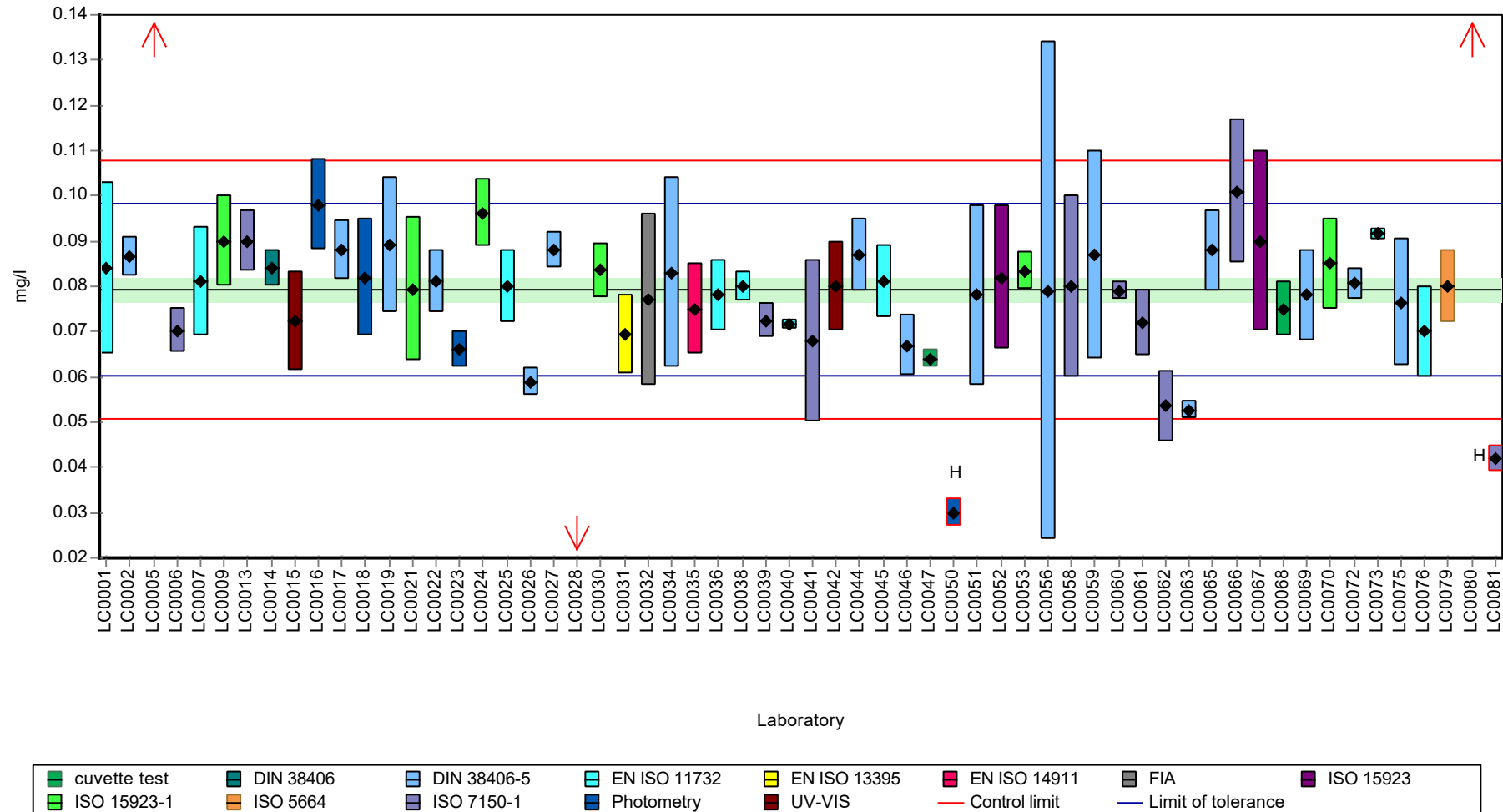
	all results	without outliers	Unit
Mean ± CI (99%)	0.0859 ± 0.0215	0.0793 ± 0.00399	mg/l
Minimum	0.01	0.0526	mg/l
Maximum	0.453	0.101	mg/l
Standard deviation	0.0555	0.00987	mg/l
rel. standard deviation	64.6	12.4	%
n	60	55	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Ammonium (as NH₄)

Graphical presentation of results

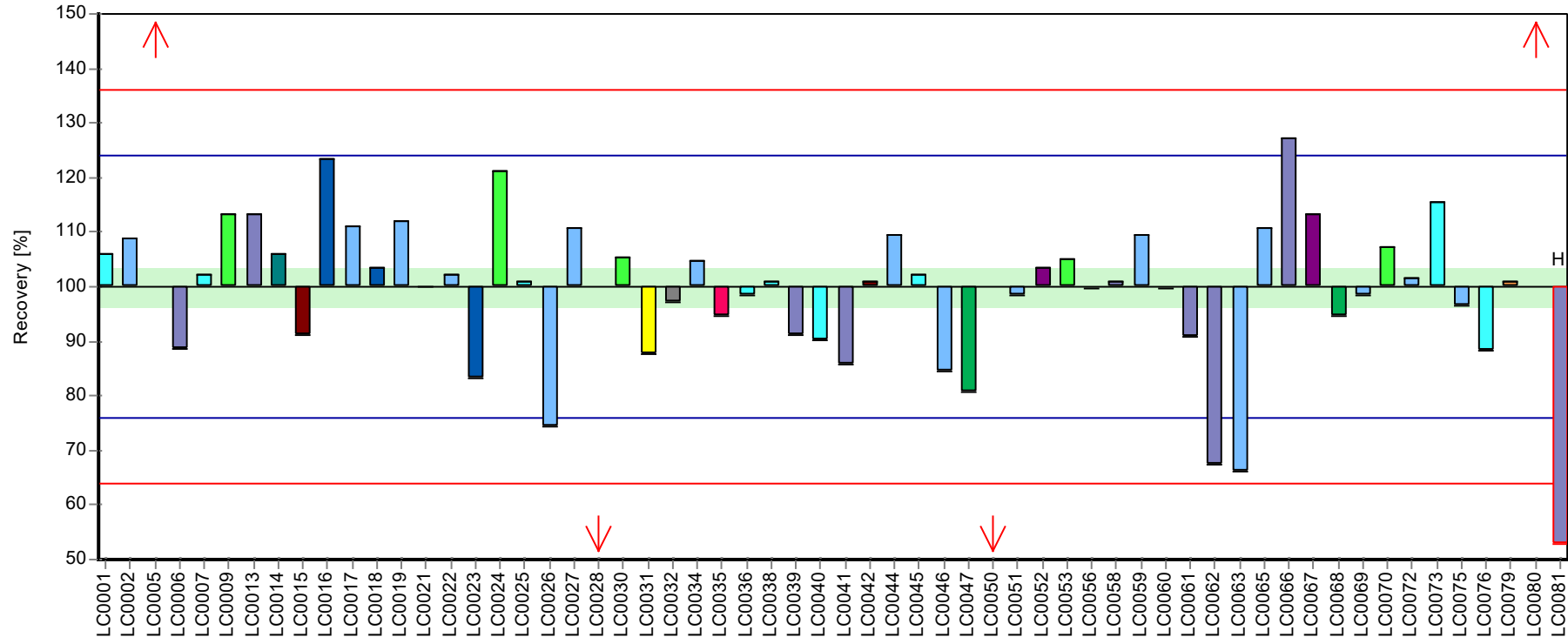
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Ammonium (as NH4)

Recovery rate



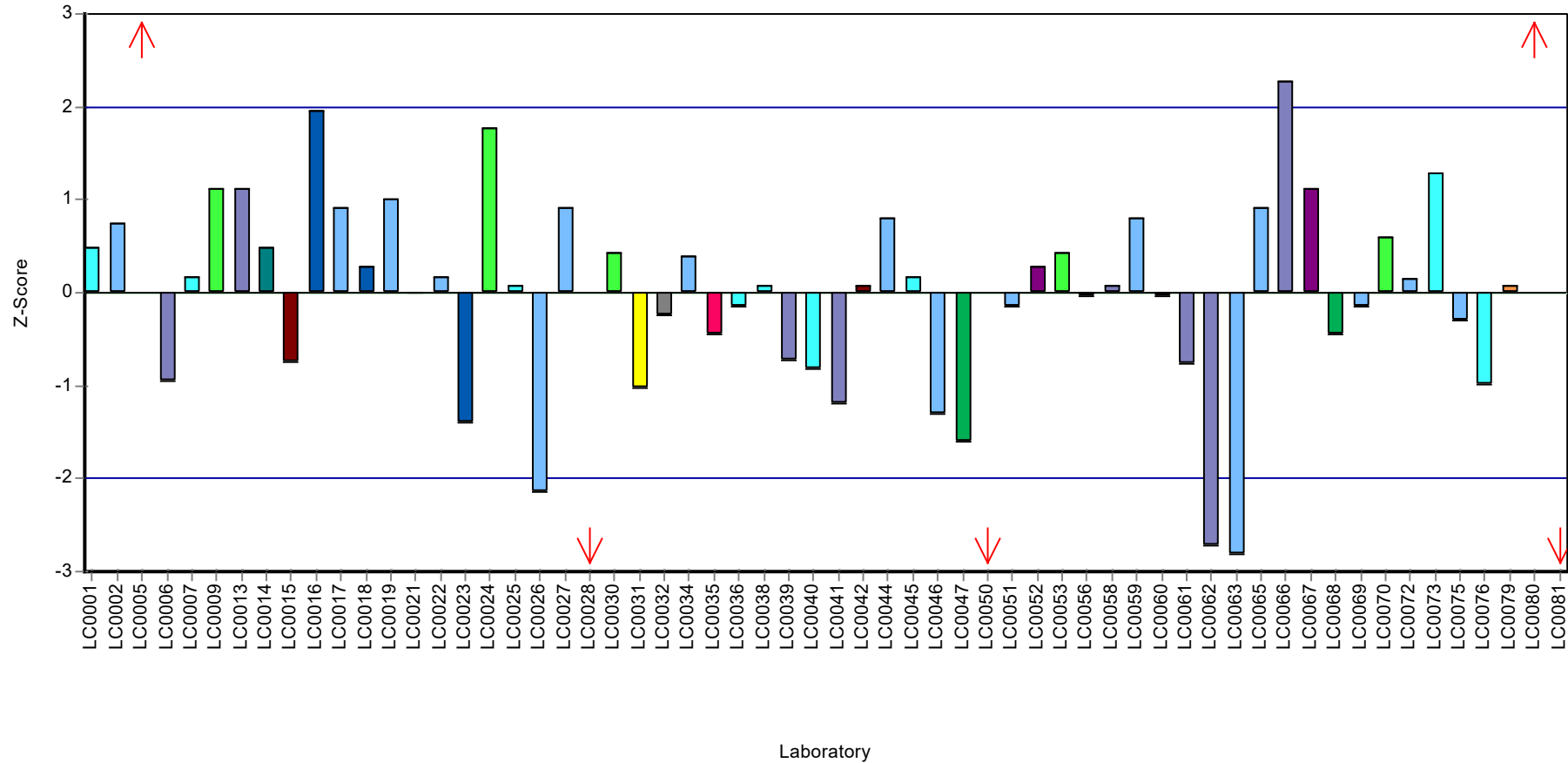
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Ammonium (as NH4)

Z-score



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Ammonium (as NH₄)

Parameter oriented report

N160 B

Ammonium (as NH₄)

Unit	mg/l
Assigned value ± U (k=2)	0.285 ± 0.00486
Criterion	0.0341 (12 %)
Minimum - Maximum	0.244 - 0.334
Control test value ± U (k=2)	0.2650 ± 0.0397

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.303	0.07	106	0.54	
LC0002	0.2736	0.0137	96.2	-0.32	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	0.441	0.044	155	4.58	H
LC0006	0.282	0.02	99.1	-0.07	
LC0007	0.287	0.04298	101	0.07	
LC0008	-	-	-	-	
LC0009	0.3	0.03	105	0.45	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	>0.25	-	-	-	
LC0014	0.273	0.013	96	-0.34	
LC0015	0.293	0.0441	103	0.25	
LC0016	0.28	0.04	98.4	-0.13	
LC0017	0.288	0.022	101	0.1	
LC0018	0.319	0.051	112	1.01	
LC0019	0.285	0.043	100	0.01	
LC0020	-	-	-	-	
LC0021	0.271	0.054	95.2	-0.4	
LC0022	0.287	0.011	101	0.07	
LC0023	0.27	0.016	94.9	-0.42	
LC0024	0.285	0.022	100	0.01	
LC0025	0.278	0.025	97.7	-0.19	
LC0026	0.2726	0.003	95.8	-0.35	
LC0027	0.28	0.01	98.4	-0.13	
LC0028	0.334	0.028	117	1.45	
LC0029	-	-	-	-	
LC0030	0.27	0.007	94.9	-0.42	
LC0031	0.292	0.037	103	0.22	
LC0032	0.283	0.071	99.5	-0.04	
LC0033	-	-	-	-	
LC0034	0.298	0.075	105	0.4	
LC0035	0.244	0.04	85.8	-1.19	
LC0036	0.295	0.029	104	0.31	
LC0037	-	-	-	-	
LC0038	0.27	0.0113	94.9	-0.42	
LC0039	0.2196	0.0119	77.2	-1.9	H
LC0040	0.269	0.004	94.5	-0.45	
LC0041	0.27	0.016	94.9	-0.42	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Ammonium (as NH₄)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	0.26	0.01	91.4	-0.72	
LC0043	-	-	-	-	
LC0044	0.299	0.03	105	0.42	
LC0045	0.284	0.028	99.8	-0.02	
LC0046	0.26	0.026	91.4	-0.72	
LC0047	0.268	0.009	94.2	-0.48	
LC0048	-	-	-	-	
LC0049	0.292	0.0151	103	0.22	
LC0050	0.17	0.003	59.8	-3.35	H
LC0051	0.27	0.05	94.9	-0.42	
LC0052	0.3	0.06	105	0.45	
LC0053	0.2976	0.0156	105	0.38	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	0.276	0.055	97	-0.25	
LC0057	-	-	-	-	
LC0058	0.33	0.33	116	1.33	
LC0059	0.314	0.072	110	0.86	
LC0060	0.276	0.01	97	-0.25	
LC0061	0.286	0.0286	101	0.04	
LC0062	0.212	0.032	74.5	-2.12	H
LC0063	0.253	0.01	88.9	-0.92	
LC0064	-	-	-	-	
LC0065	0.319	0.04	112	1.01	
LC0066	0.271	0.039	95.2	-0.4	
LC0067	0.29	0.06	102	0.16	
LC0068	0.29	0.02	102	0.16	
LC0069	0.289	0.03	102	0.13	
LC0070	0.287	0.034	101	0.07	
LC0071	-	-	-	-	
LC0072	0.29	0.0125	102	0.16	
LC0073	0.291	0.0057	102	0.19	
LC0074	-	-	-	-	
LC0075	0.269	0.051	94.5	-0.45	
LC0076	0.26	0.065	91.4	-0.72	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	0.29	0.03	102	0.16	
LC0080	0.684	0.0026	240	11.7	H
LC0081	0.129	0.009	45.3	-4.55	H
LC0082	-	-	-	-	

Characteristics of parameter

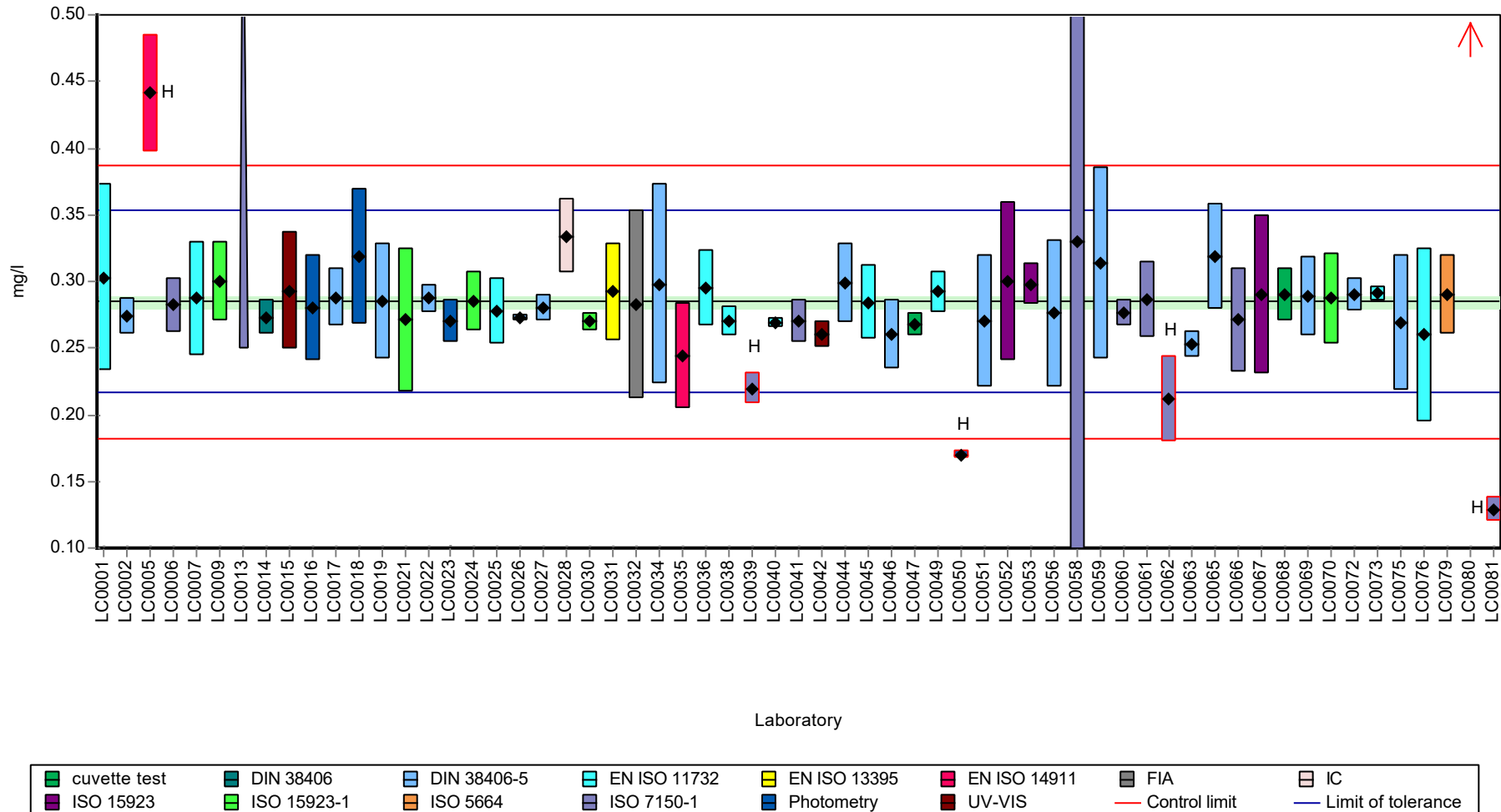
	all results	without outliers	Unit
Mean ± CI (99%)	0.287 ± 0.0251	0.285 ± 0.00729	mg/l
Minimum	0.129	0.244	mg/l
Maximum	0.684	0.334	mg/l
Standard deviation	0.0648	0.0179	mg/l
rel. standard deviation	22.6	6.28	%
n	60	54	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Ammonium (as NH₄)

Graphical presentation of results

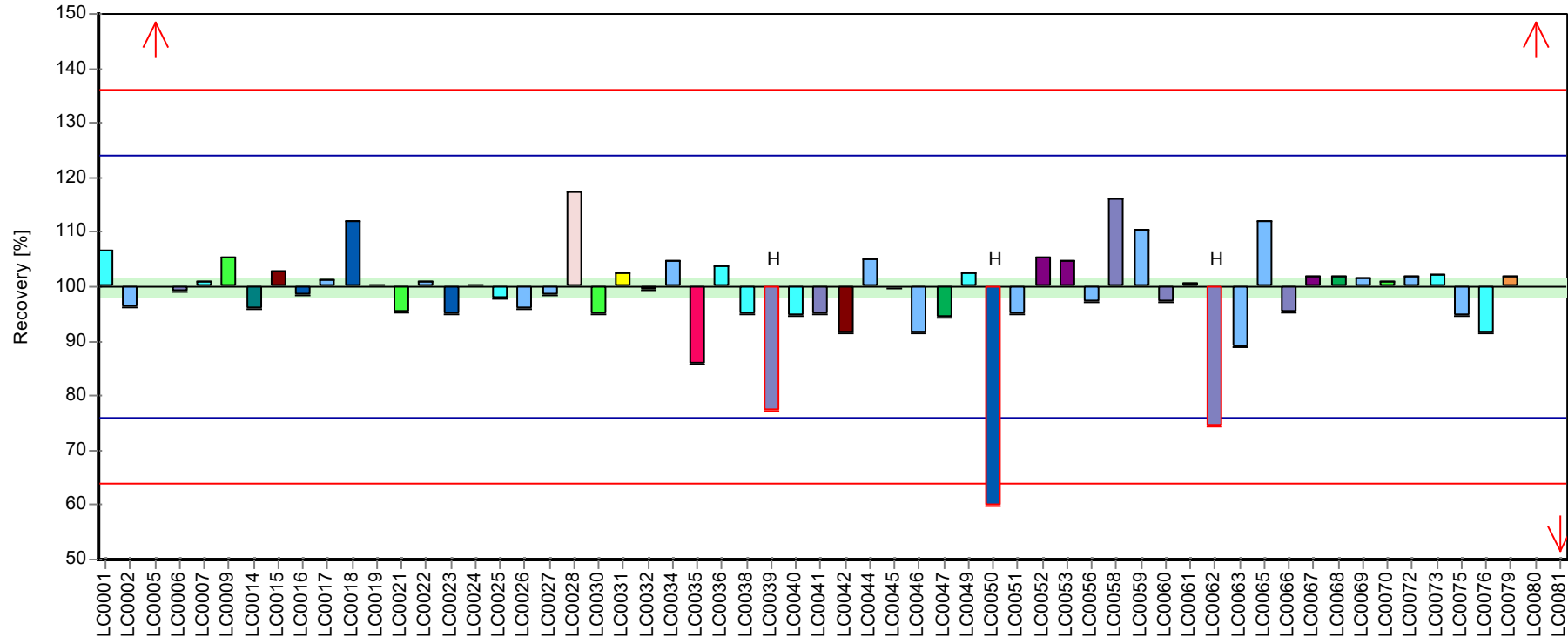
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Ammonium (as NH4)

Recovery rate



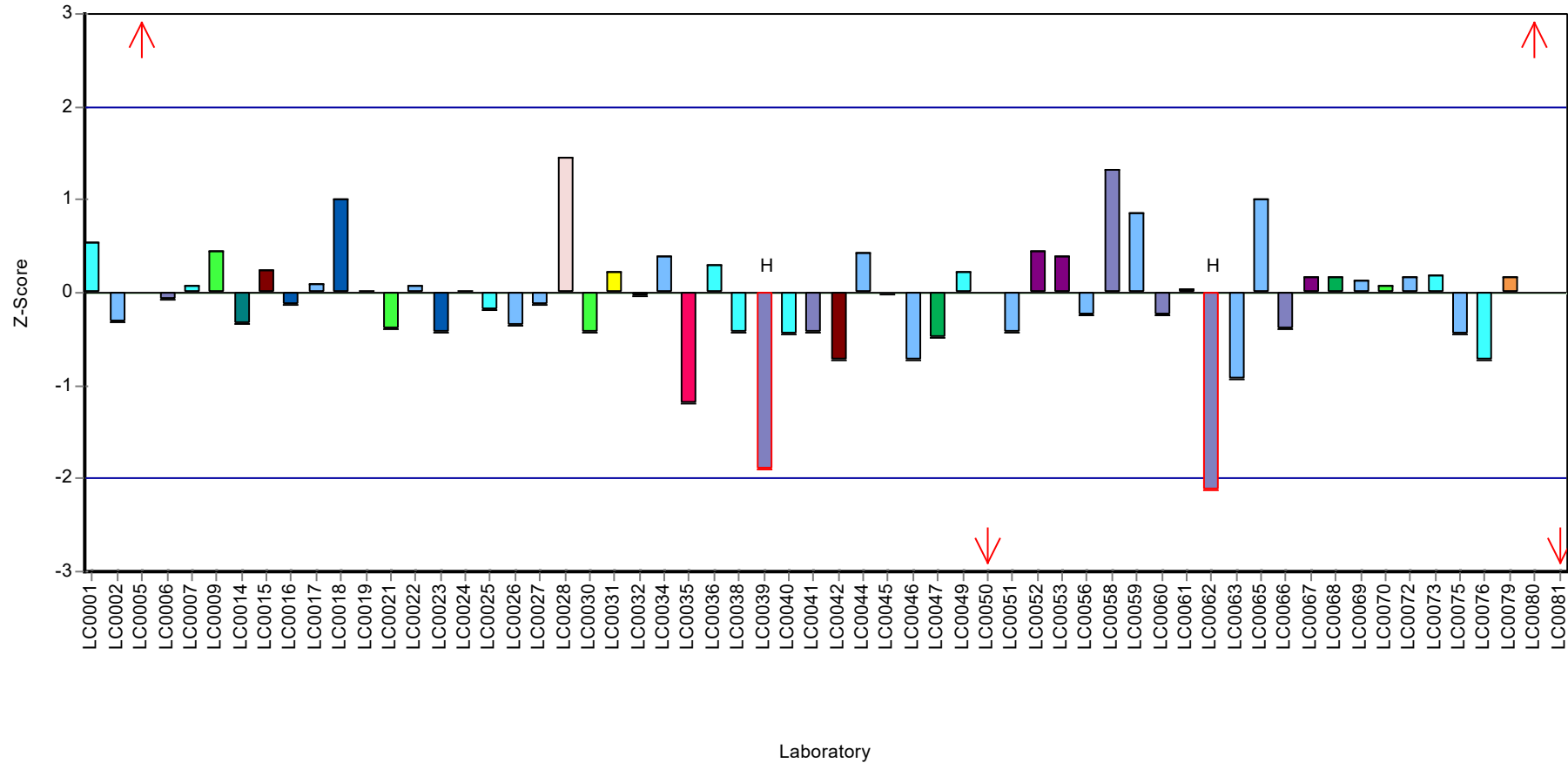
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Ammonium (as NH4)

Z-score



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Boron

Parameter oriented report

N160 A

Boron

Unit	mg/l
Assigned value ± U (k=2)	0.0747 ± 0.00166
Criterion	0.00822 (11 %)
Minimum - Maximum	0.066 - 0.088
Control test value ± U (k=2)	0.06590 ± 0.0132

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.0897	0.011	120	1.82	H
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	0.071	0.004	95	-0.45	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	< 0.1 (LOQ)	-	-	-	
LC0018	0.0675	0.0122	90.3	-0.88	
LC0019	-	-	-	-	
LC0020	0.0757	0.003	101	0.12	
LC0021	0.0741	0.0148	99.2	-0.08	
LC0022	-	-	-	-	
LC0023	-	-	-	-	
LC0024	0.0765	0.0062	102	0.22	
LC0025	0.081	0.008	108	0.76	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	0.0731	0.011	97.8	-0.2	
LC0031	0.0749	0.006	100	0.02	
LC0032	0.09	0.0054	120	1.86	H
LC0033	-	-	-	-	
LC0034	0.08	0.008	107	0.64	
LC0035	0.066	0.012	88.3	-1.06	
LC0036	0.077	0.0077	103	0.28	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	0.0717	0.02	96	-0.37	
LC0040	0.0745	0.002	99.7	-0.03	
LC0041	-	-	-	-	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Boron

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	-	-	-	-	
LC0044	0.075	0.007	100	0.03	
LC0045	0.072	0.0072	96.4	-0.33	
LC0046	0.105	0.0105	141	3.68	H
LC0047	-	-	-	-	
LC0048	-	-	-	-	
LC0049	0.0776	0.0039	104	0.35	
LC0050	-	-	-	-	
LC0051	0.072	0.02	96.4	-0.33	
LC0052	0.07	0.011	93.7	-0.57	
LC0053	0.07559	0.0132	101	0.11	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	0.068	0.018	91	-0.82	
LC0057	-	-	-	-	
LC0058	0.019	0.002	25.4	-6.78	H
LC0059	0.074	0.013	99	-0.09	
LC0060	-	-	-	-	
LC0061	0.088	0.0106	118	1.62	
LC0062	-	-	-	-	
LC0063	0.0683	0.005	91.4	-0.78	
LC0064	-	-	-	-	
LC0065	-	-	-	-	
LC0066	0.0757	0.0077	101	0.12	
LC0067	-	-	-	-	
LC0068	0.074	0.008	99	-0.09	
LC0069	< 0.2 (LOQ)	-	-	-	
LC0070	-	-	-	-	
LC0071	0.0735	0.0094	98.4	-0.15	
LC0072	0.0761	0.0024	102	0.17	
LC0073	0.0772	0.00061	103	0.3	
LC0074	-	-	-	-	
LC0075	0.0833	0.011	111	1.04	
LC0076	-	-	-	-	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	0.079	0.01	106	0.52	
LC0080	0.0741	0.002	99.2	-0.08	
LC0081	-	-	-	-	
LC0082	-	-	-	-	

Characteristics of parameter

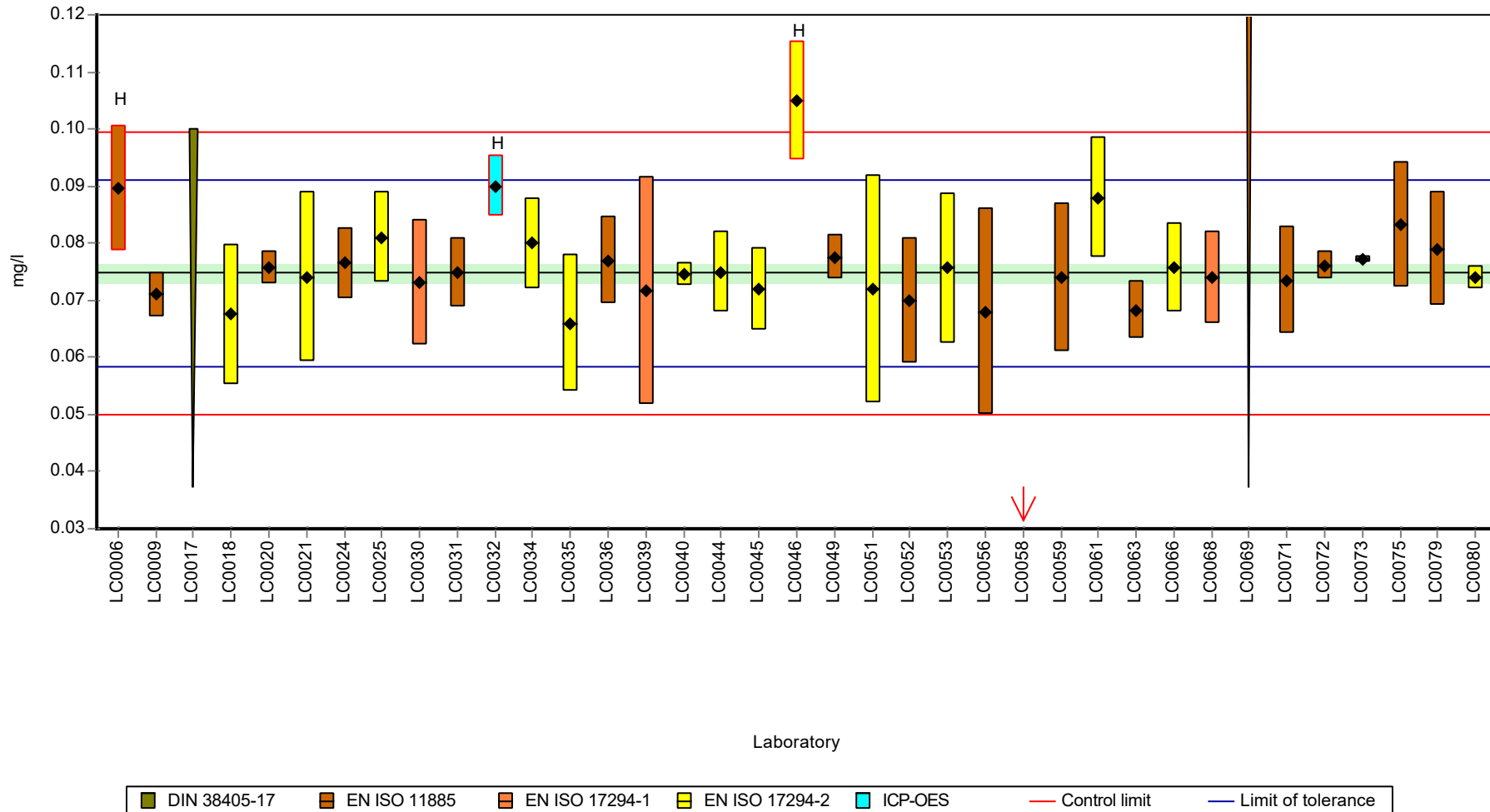
	all results	without outliers	Unit
Mean ± CI (99%)	0.0749 ± 0.00622	0.0747 ± 0.0025	mg/l
Minimum	0.019	0.066	mg/l
Maximum	0.105	0.088	mg/l
Standard deviation	0.0123	0.00463	mg/l
rel. standard deviation	16.4	6.2	%
n	35	31	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Boron

Graphical presentation of results

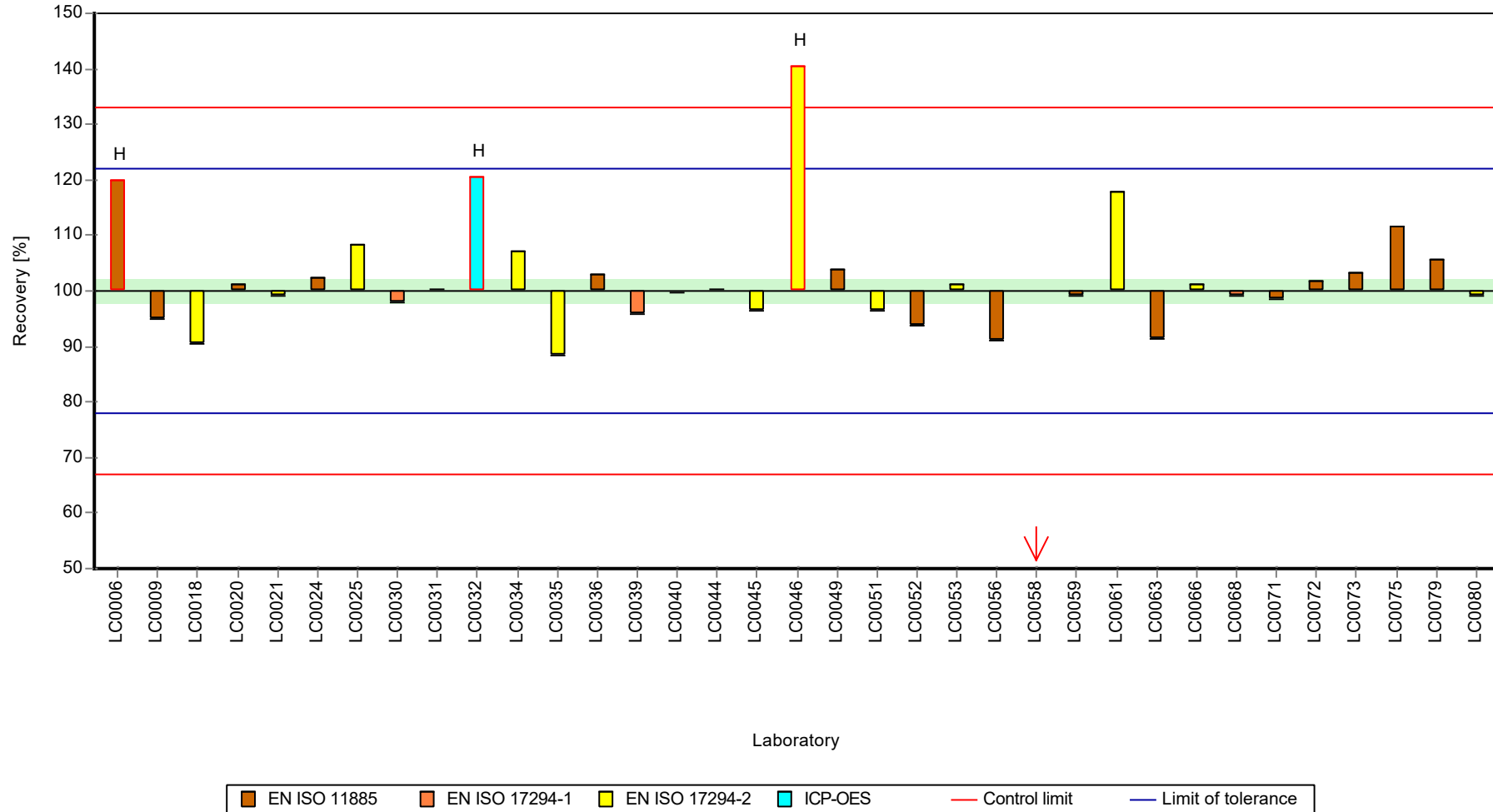
Results



Parameter oriented report Nutrients/Major Ions N160

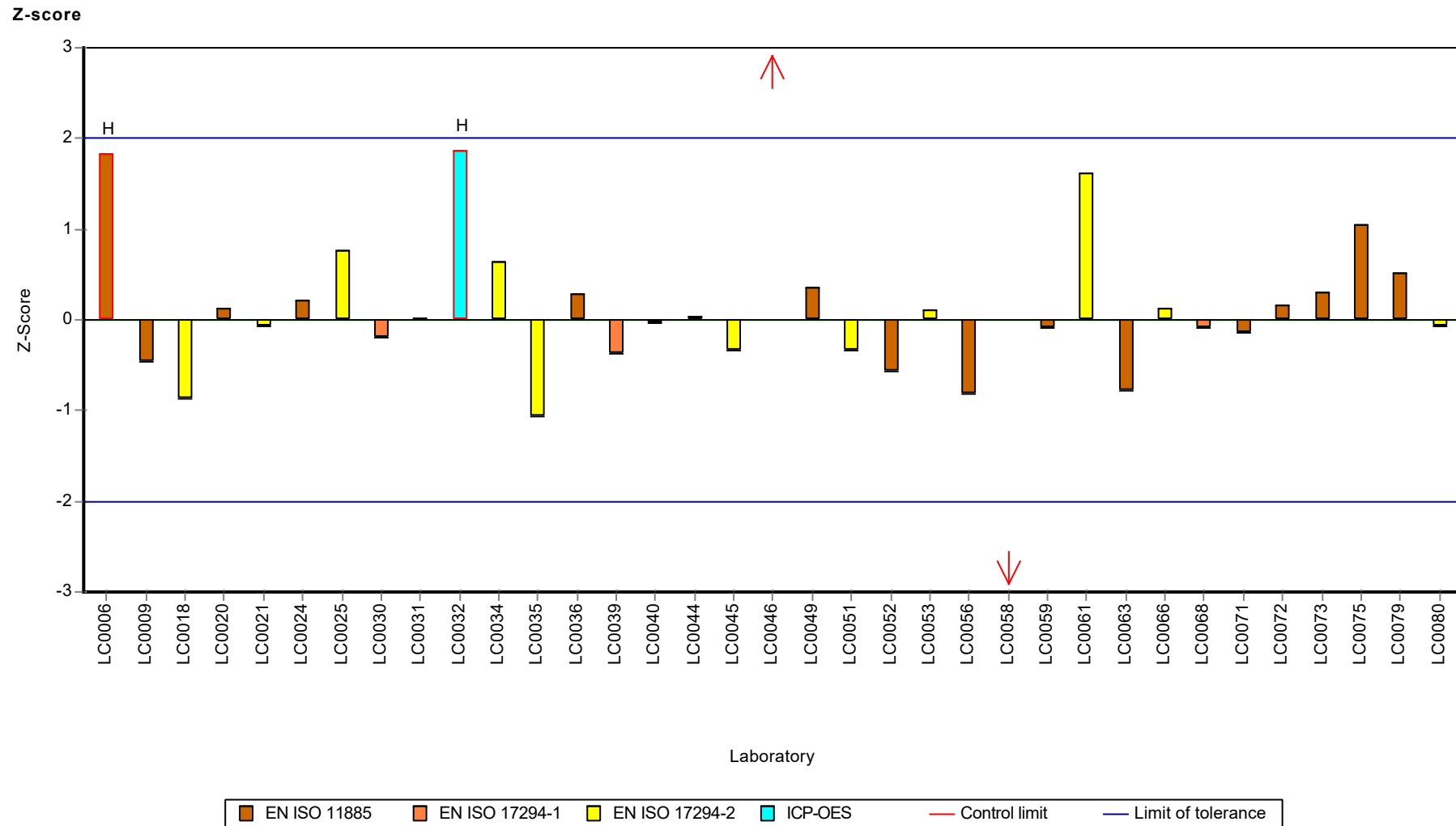
Sample: N160A, Parameter: Boron

Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Boron



Parameter oriented report

N160 B

Boron

Unit	mg/l
Assigned value ± U (k=2)	0.0149 ± 0.000559
Criterion	0.00164 (11 %)
Minimum - Maximum	0.0122 - 0.0177
Control test value ± U (k=2)	< 0.05

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.0153	0.0019	103	0.24	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	0.013	0.001	87.2	-1.16	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	-	-	-	-	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	< 0.1 (LOQ)	-	-	-	
LC0018	0.0143	0.004	96	-0.37	
LC0019	-	-	-	-	
LC0020	0.015	0.0005	101	0.06	
LC0021	< 0.02 (LOQ)	-	-	-	
LC0022	-	-	-	-	
LC0023	-	-	-	-	
LC0024	0.013	0.0011	87.2	-1.16	
LC0025	0.016	0.0016	107	0.67	
LC0026	-	-	-	-	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	0.0122	0.0015	81.9	-1.65	
LC0031	0.0139	0.0011	93.3	-0.61	
LC0032	<0.047 (LOD)	-	-	-	
LC0033	-	-	-	-	
LC0034	< 50 (LOQ)	-	-	-	
LC0035	0.015	0.003	101	0.06	
LC0036	< 0.02 (LOQ)	-	-	-	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	0.0145	0.004	97.3	-0.24	
LC0040	0.0163	0.001	109	0.85	
LC0041	-	-	-	-	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Boron

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	-	-	-	-	
LC0044	0.0154	0.0015	103	0.3	
LC0045	< 0.02 (LOQ)	-	-	-	
LC0046	0.035	0.0035	235	12.3	H
LC0047	-	-	-	-	
LC0048	-	-	-	-	
LC0049	0.0167	0.00083	112	1.1	
LC0050	-	-	-	-	
LC0051	0.014	0.003	94	-0.55	
LC0052	< 0.02 (LOQ)	-	-	-	
LC0053	0.0147	0.0026	98.7	-0.12	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	0.14	0.018	940	76.3	H
LC0057	-	-	-	-	
LC0058	< 0.017 (LOQ)	-	-	-	
LC0059	0.0144	0.002	96.6	-0.3	
LC0060	-	-	-	-	
LC0061	0.016	0.0019	107	0.67	
LC0062	-	-	-	-	
LC0063	0.0141	0.01	94.6	-0.49	
LC0064	-	-	-	-	
LC0065	-	-	-	-	
LC0066	0.0156	0.0023	105	0.43	
LC0067	-	-	-	-	
LC0068	0.014	0.002	94	-0.55	
LC0069	< 0.2 (LOQ)	-	-	-	
LC0070	-	-	-	-	
LC0071	0.016	0.0069	107	0.67	
LC0072	0.0142	0.00044	95.3	-0.43	
LC0073	< 0.02 (LOQ)	-	-	-	
LC0074	-	-	-	-	
LC0075	0.0177	0.0024	119	1.71	
LC0076	-	-	-	-	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	0.015	0.002	101	0.06	
LC0080	0.0103	0.0005	69.1	-2.81	H
LC0081	-	-	-	-	
LC0082	-	-	-	-	

Characteristics of parameter

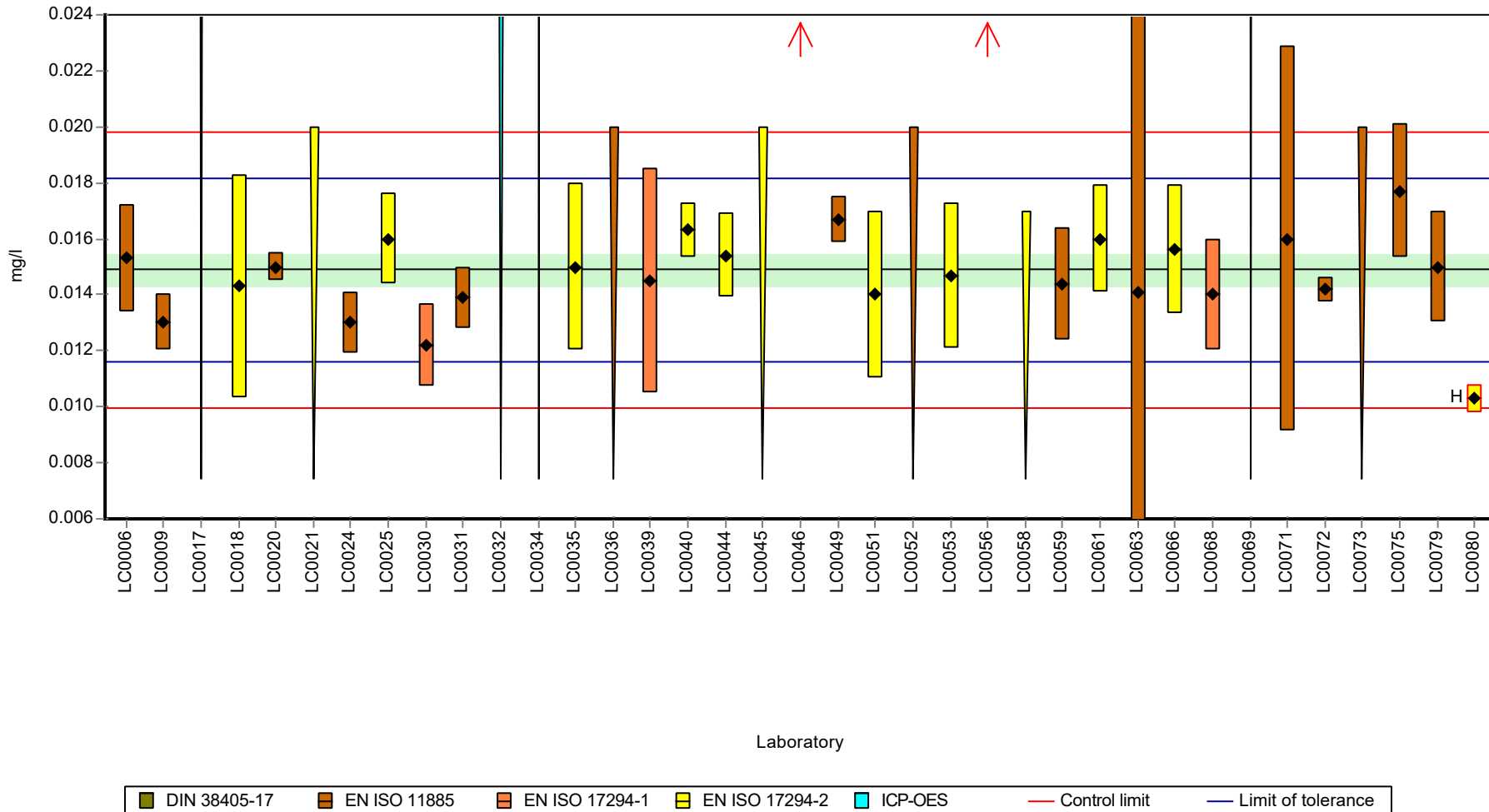
	all results	without outliers	Unit
Mean ± CI (99%)	0.0201 ± 0.014	0.0148 ± 0.000773	mg/l
Minimum	0.0103	0.0122	mg/l
Maximum	0.14	0.0177	mg/l
Standard deviation	0.0243	0.00126	mg/l
rel. standard deviation	121	8.5	%
n	27	24	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Boron

Graphical presentation of results

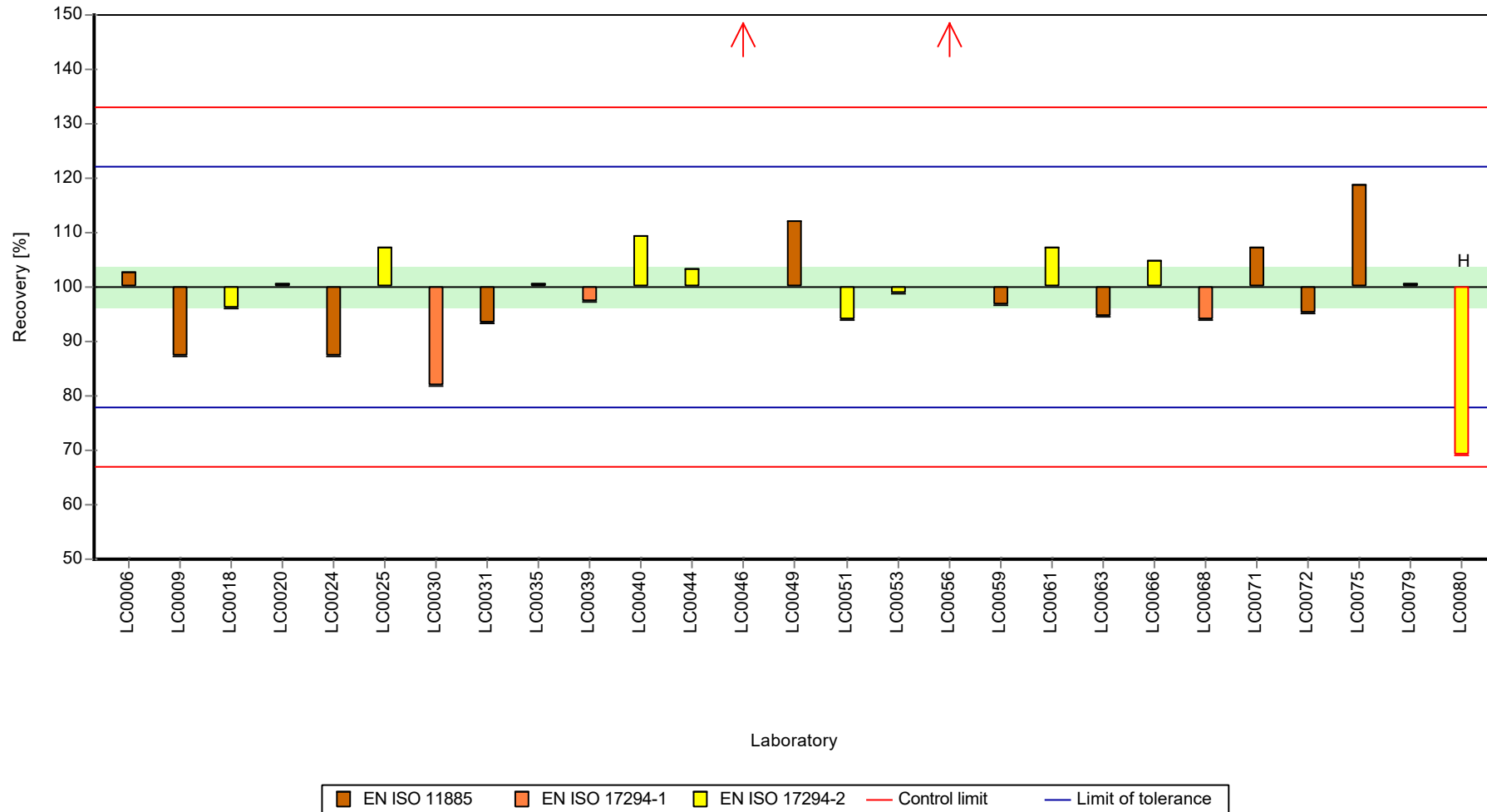
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Boron

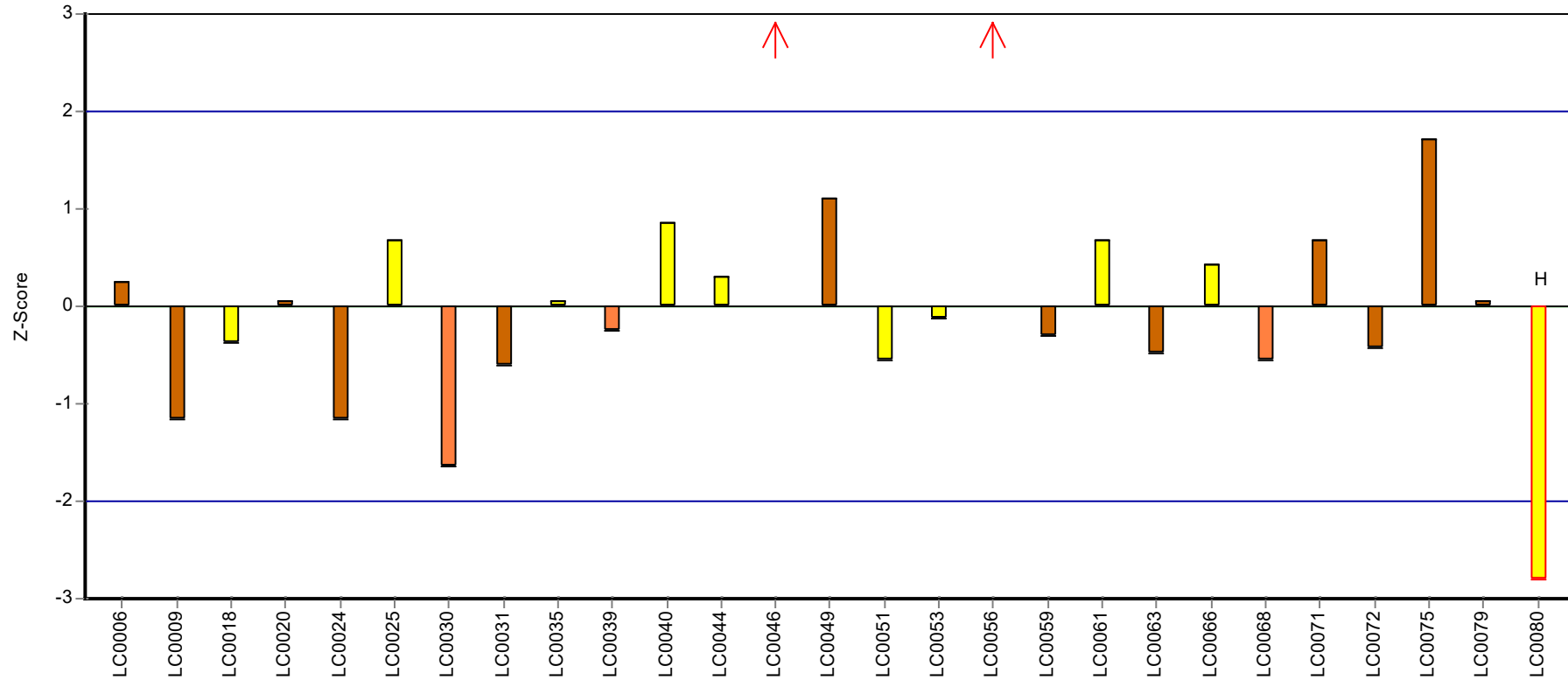
Recovery rate



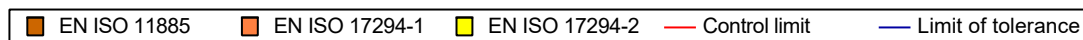
Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Boron

Z-score



Laboratory



Parameter oriented report

N160 A

Calcium

Unit	mg/l
Assigned value ± U (k=2)	143 ± 1.42
Criterion	4.42 (3.1 %)
Minimum - Maximum	129 - 155
Control test value ± U (k=2)	135.0 ± 20.3

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	136.7	4.8	95.9	-1.33	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	149	5.42	105	1.45	
LC0006	136	6.2	95.4	-1.49	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	142	8	99.6	-0.13	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	141.25	5	99.1	-0.3	
LC0013	-	-	-	-	
LC0014	143.38	2.7	101	0.18	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	152	17	107	2.13	
LC0018	141	11	98.9	-0.36	
LC0019	138	15	96.8	-1.03	
LC0020	148	12	104	1.23	
LC0021	142.371	28.474	99.9	-0.05	
LC0022	-	-	-	-	
LC0023	143.7	1.4	101	0.26	
LC0024	149.99	3.4	105	1.68	
LC0025	143	8	100	0.1	
LC0026	139.02	1	97.5	-0.8	
LC0027	-	-	-	-	
LC0028	140.85	1.02	98.8	-0.39	
LC0029	-	-	-	-	
LC0030	145.5	15	102	0.66	
LC0031	140	7	98.2	-0.58	
LC0032	133	10.64	93.3	-2.17	
LC0033	-	-	-	-	
LC0034	141	14	98.9	-0.36	
LC0035	135.815	15.809	95.3	-1.53	
LC0036	135	13	94.7	-1.71	
LC0037	-	-	-	-	
LC0038	147	5	103	1	
LC0039	137	28	96.1	-1.26	
LC0040	147	6.8	103	1	
LC0041	145	14.2	102	0.55	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Calcium

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	147	2	103	1	
LC0043	-	-	-	-	
LC0044	132.81	13	93.2	-2.21	
LC0045	138.4	13.8	97.1	-0.94	
LC0046	113	11.3	79.3	-6.69	H
LC0047	146	4.4	102	0.78	
LC0048	-	-	-	-	
LC0049	143.2	7.16	100	0.14	
LC0050	138.9	5.5	97.4	-0.83	
LC0051	140	28	98.2	-0.58	
LC0052	147	10	103	1	
LC0053	143.67	11.8	101	0.25	
LC0054	147.4	7.58	103	1.09	
LC0055	154.605	1.14	108	2.72	
LC0056	135	5	94.7	-1.71	
LC0057	129.04	7	90.5	-3.06	
LC0058	148.3	19.8	104	1.3	
LC0059	150	6	105	1.68	
LC0060	144	3	101	0.32	
LC0061	141.35	14.135	99.1	-0.28	
LC0062	121	12	84.9	-4.88	H
LC0063	144.9	2.1	102	0.53	
LC0064	-	-	-	-	
LC0065	151	8.7	106	1.91	
LC0066	144	7	101	0.32	
LC0067	142.1	14.2	99.7	-0.11	
LC0068	142	6.4	99.6	-0.13	
LC0069	61	9.5	42.8	-18.5	H
LC0070	-	-	-	-	
LC0071	143.58	4.97	101	0.23	
LC0072	147	4.26	103	1	
LC0073	147	1.34	103	1	
LC0074	-	-	-	-	
LC0075	146.87	9.55	103	0.97	
LC0076	145.364	14.54	102	0.63	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	138	20.7	96.8	-1.03	
LC0080	135.5	0.773	95	-1.6	
LC0081	137.47	8.86	96.4	-1.15	
LC0082	-	-	-	-	

Characteristics of parameter

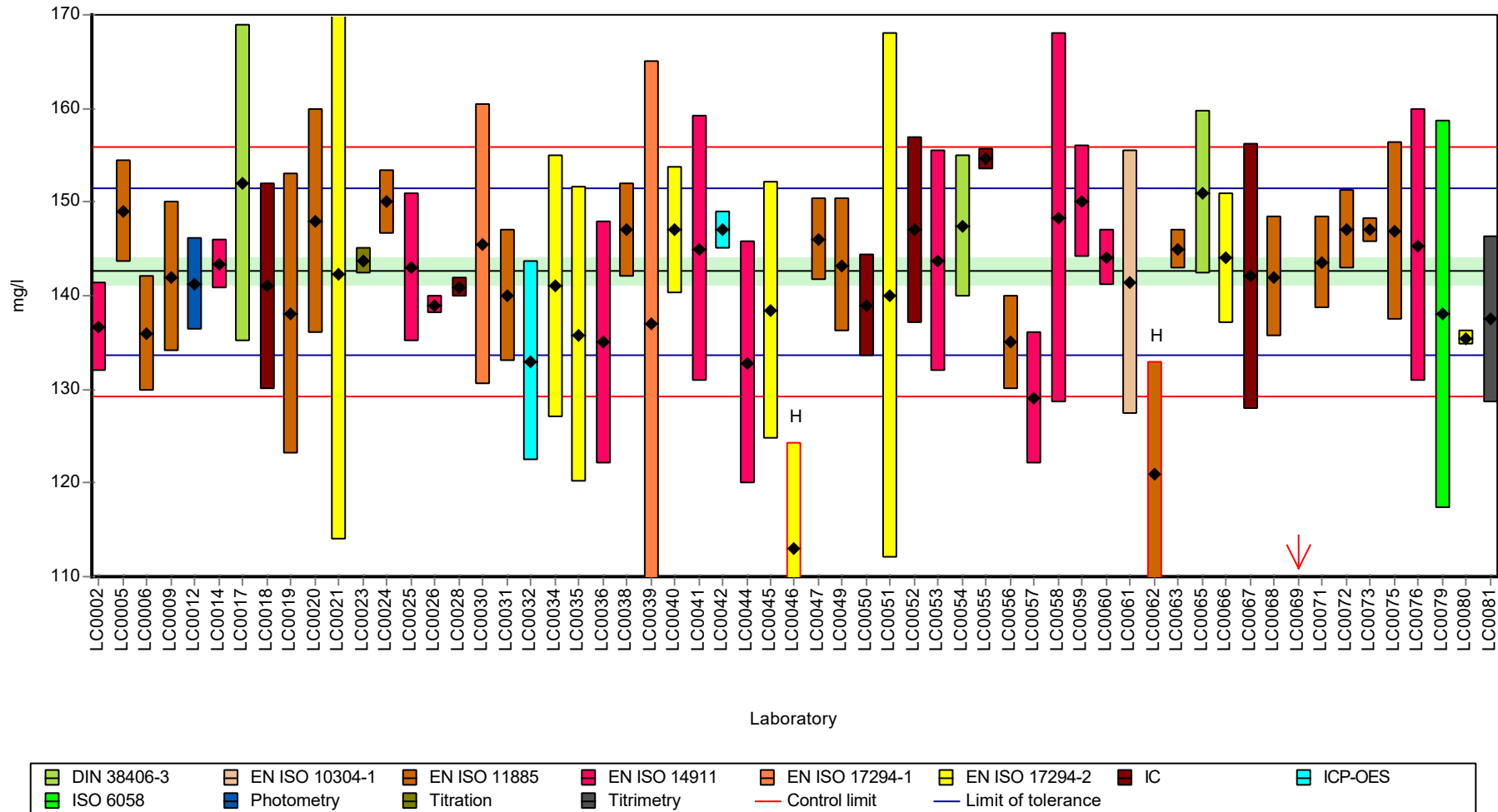
	all results	without outliers	Unit
Mean ± CI (99%)	140 ± 4.93	143 ± 2.13	mg/l
Minimum	61	129	mg/l
Maximum	155	155	mg/l
Standard deviation	12.6	5.31	mg/l
rel. standard deviation	9	3.73	%
n	59	56	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Calcium

Graphical presentation of results

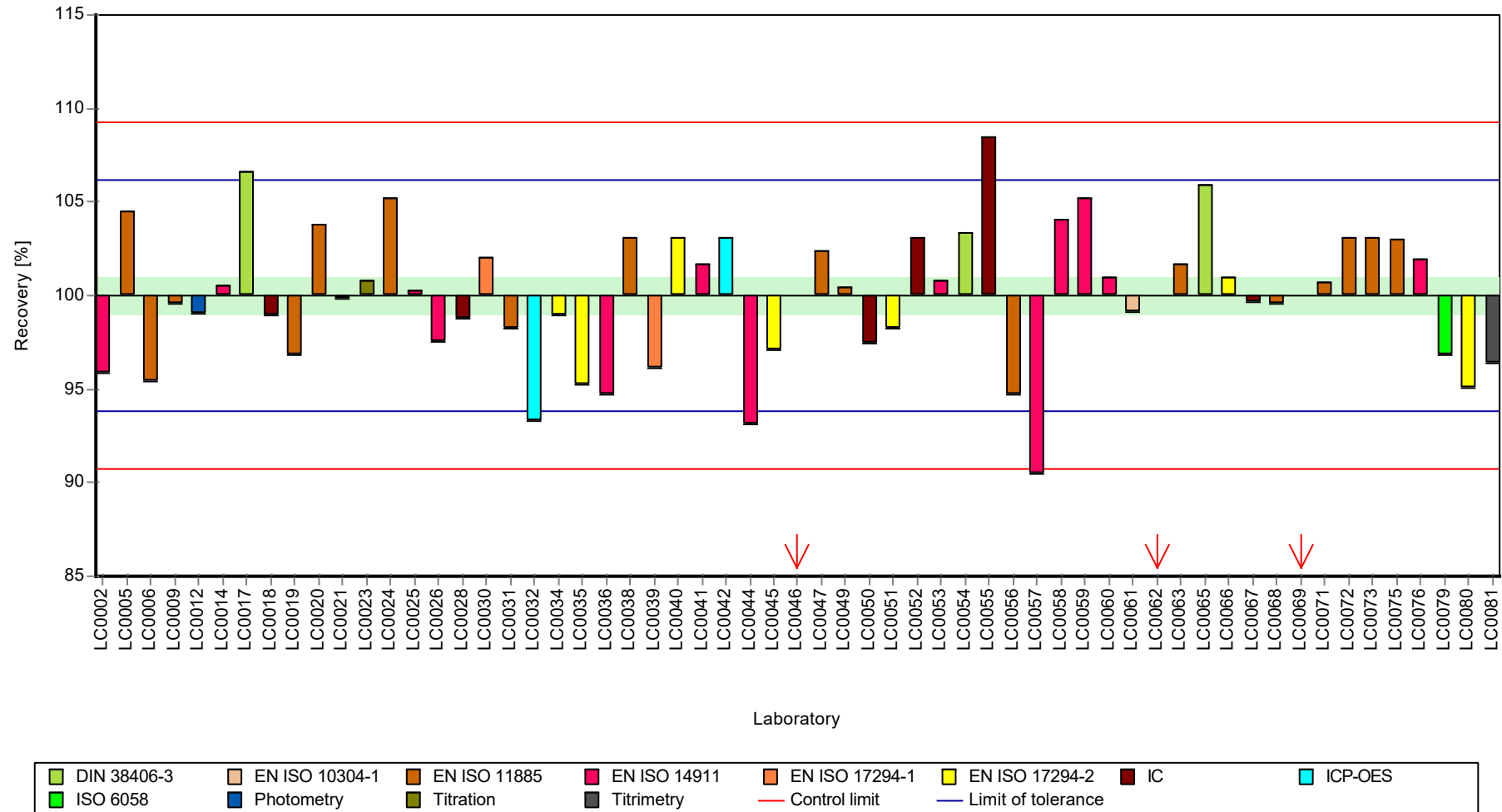
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Calcium

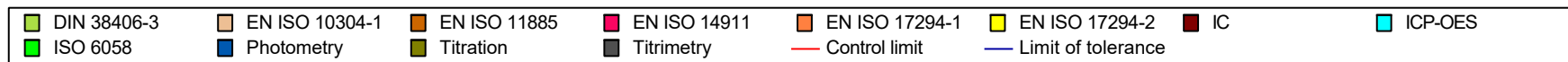
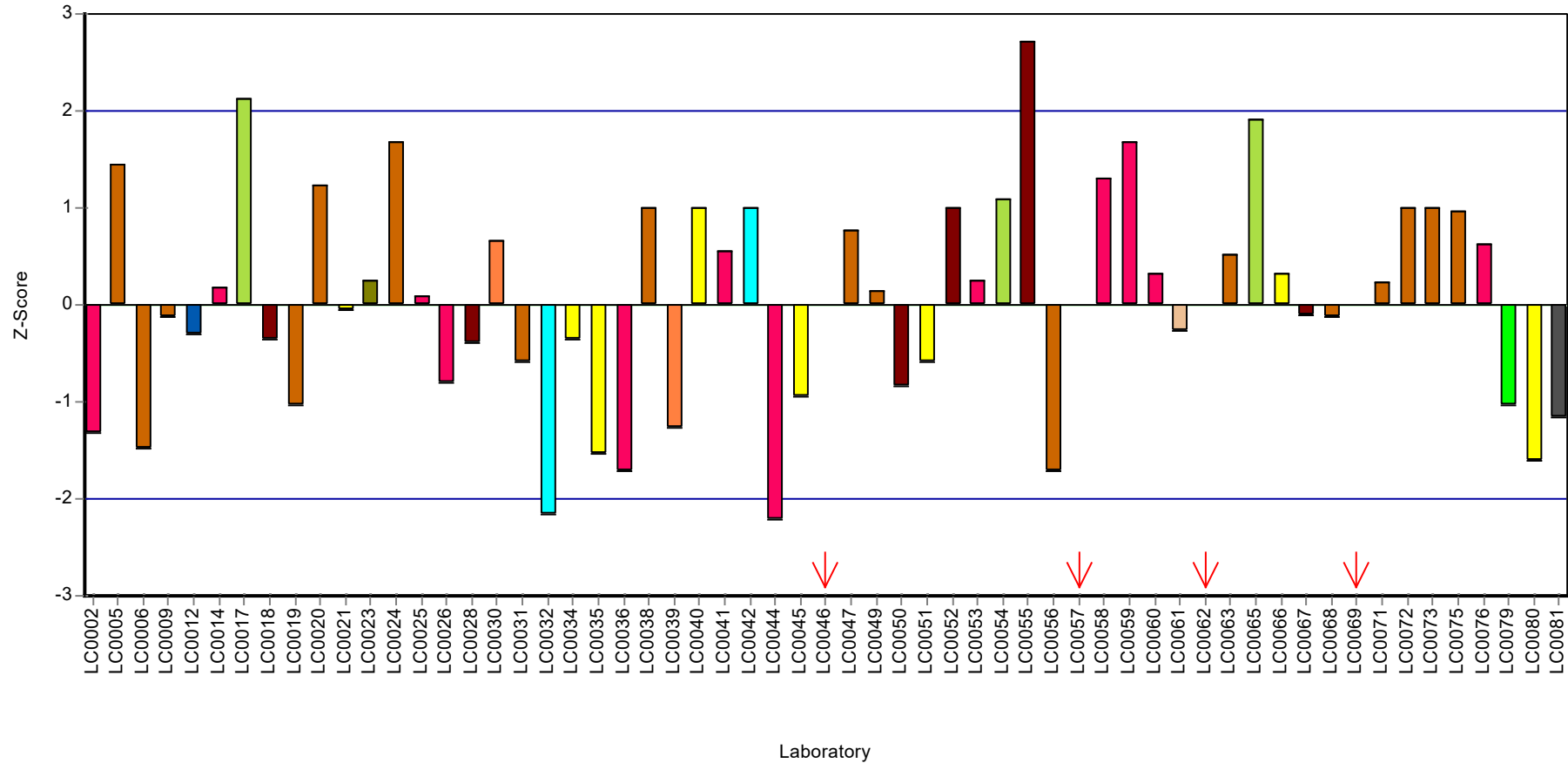
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Calcium

Z-score



Parameter oriented report

N160 B

Calcium

Unit	mg/l
Assigned value ± U (k=2)	61.3 ± 0.649
Criterion	1.9 (3.1 %)
Minimum - Maximum	56.2 - 68.1
Control test value ± U (k=2)	59.50 ± 8.93

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	58.5	2.05	95.4	-1.48	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	63.7	2.32	104	1.26	
LC0006	57	2.6	93	-2.27	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	59.9	3	97.7	-0.74	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	60.63	5	98.9	-0.36	
LC0013	-	-	-	-	
LC0014	61.34	1.1	100	0.02	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	68.1	7.4	111	3.57	
LC0018	61.1	4.9	99.7	-0.11	
LC0019	59.3	6.3	96.7	-1.06	
LC0020	65.5	5.2	107	2.21	
LC0021	60.836	12.167	99.2	-0.25	
LC0022	-	-	-	-	
LC0023	61.7	0.6	101	0.21	
LC0024	64.5	1.5	105	1.68	
LC0025	59	3	96.2	-1.21	
LC0026	59.24	1	96.6	-1.09	
LC0027	-	-	-	-	
LC0028	59.67	0.33	97.3	-0.86	
LC0029	-	-	-	-	
LC0030	62.85	9	103	0.81	
LC0031	56.7	2.8	92.5	-2.42	
LC0032	56.5	4.52	92.2	-2.53	
LC0033	-	-	-	-	
LC0034	60.9	6.1	99.3	-0.21	
LC0035	56.185	5.248	91.6	-2.7	
LC0036	65.5	6.6	107	2.21	
LC0037	-	-	-	-	
LC0038	61.5	2.1	100	0.1	
LC0039	58.9	12	96.1	-1.27	
LC0040	62.9	0.7	103	0.84	
LC0041	62.2	6.1	101	0.47	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Calcium

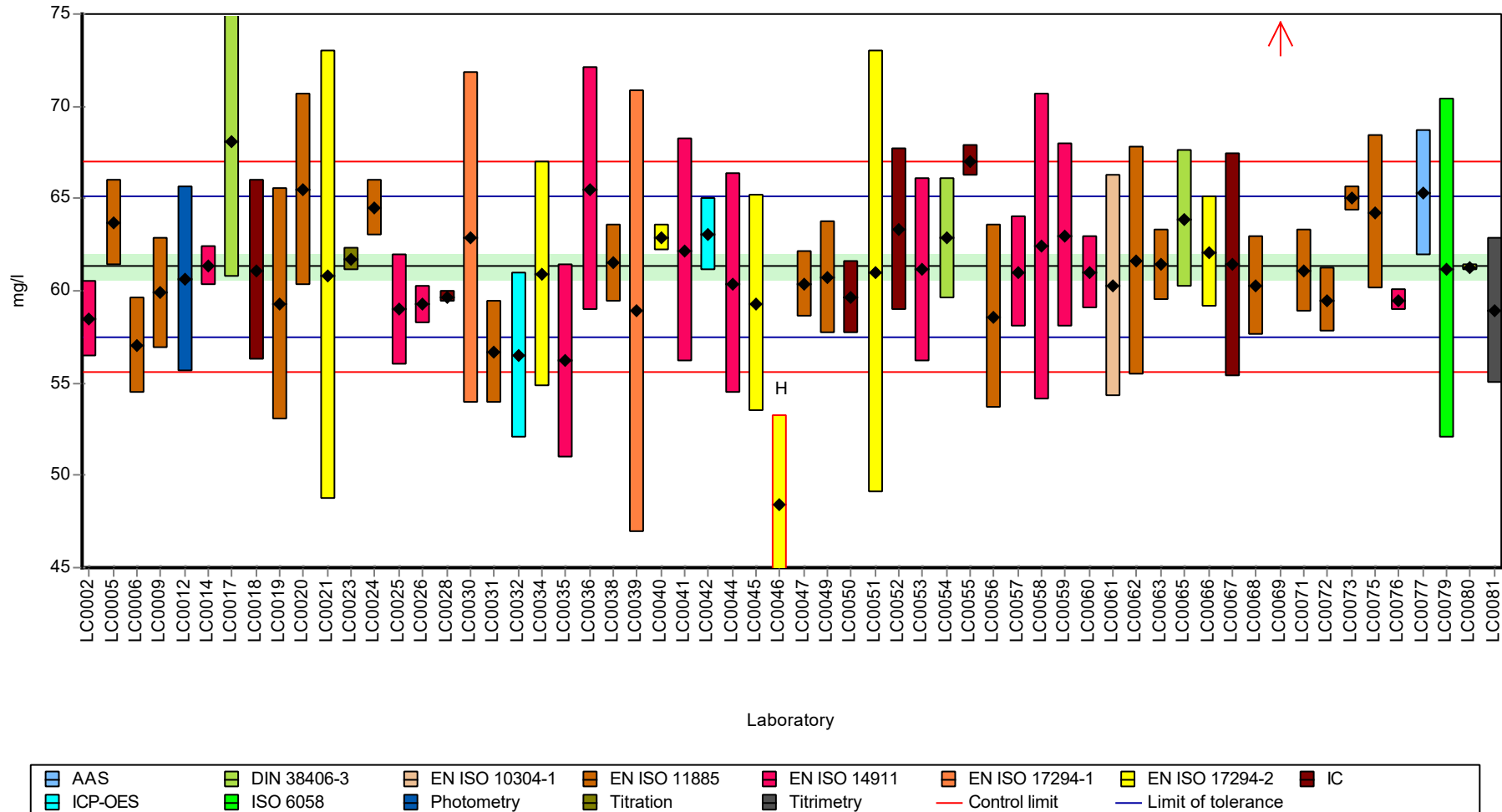
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	63.05	2	103	0.92	
LC0043	-	-	-	-	
LC0044	60.402	6	98.5	-0.48	
LC0045	59.3	5.9	96.7	-1.06	
LC0046	48.4	4.84	78.9	-6.79	H
LC0047	60.4	1.8	98.5	-0.48	
LC0048	-	-	-	-	
LC0049	60.69	3.04	99	-0.33	
LC0050	59.66	1.98	97.3	-0.87	
LC0051	61	12	99.5	-0.16	
LC0052	63.3	4.4	103	1.05	
LC0053	61.13	5.02	99.7	-0.09	
LC0054	62.83	3.236	102	0.8	
LC0055	67.04	0.86	109	3.02	
LC0056	58.6	5	95.6	-1.43	
LC0057	61	3	99.5	-0.16	
LC0058	62.4	8.32	102	0.57	
LC0059	63	5	103	0.89	
LC0060	61	2	99.5	-0.16	
LC0061	60.26	6.026	98.3	-0.55	
LC0062	61.6	6.2	100	0.15	
LC0063	61.4	1.9	100	0.05	
LC0064	-	-	-	-	
LC0065	63.89	3.7	104	1.36	
LC0066	62.1	3	101	0.42	
LC0067	61.4	6.1	100	0.05	
LC0068	60.3	2.7	98.4	-0.53	
LC0069	143	22	233	43	H
LC0070	-	-	-	-	
LC0071	61.105	2.26	99.7	-0.11	
LC0072	59.5	1.73	97.1	-0.95	
LC0073	65	0.664	106	1.94	
LC0074	-	-	-	-	
LC0075	64.24	4.18	105	1.54	
LC0076	59.486	0.6	97	-0.96	
LC0077	65.3	3.409	107	2.1	
LC0078	-	-	-	-	
LC0079	61.2	9.18	99.8	-0.06	
LC0080	61.23	0.178	99.9	-0.04	
LC0081	58.92	3.91	96.1	-1.26	
LC0082	-	-	-	-	

Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	62.5 ± 4.25	61.3 ± 0.973	mg/l
Minimum	48.4	56.2	mg/l
Maximum	143	68.1	mg/l
Standard deviation	11	2.47	mg/l
rel. standard deviation	17.6	4.03	%
n	60	58	-

Graphical presentation of results

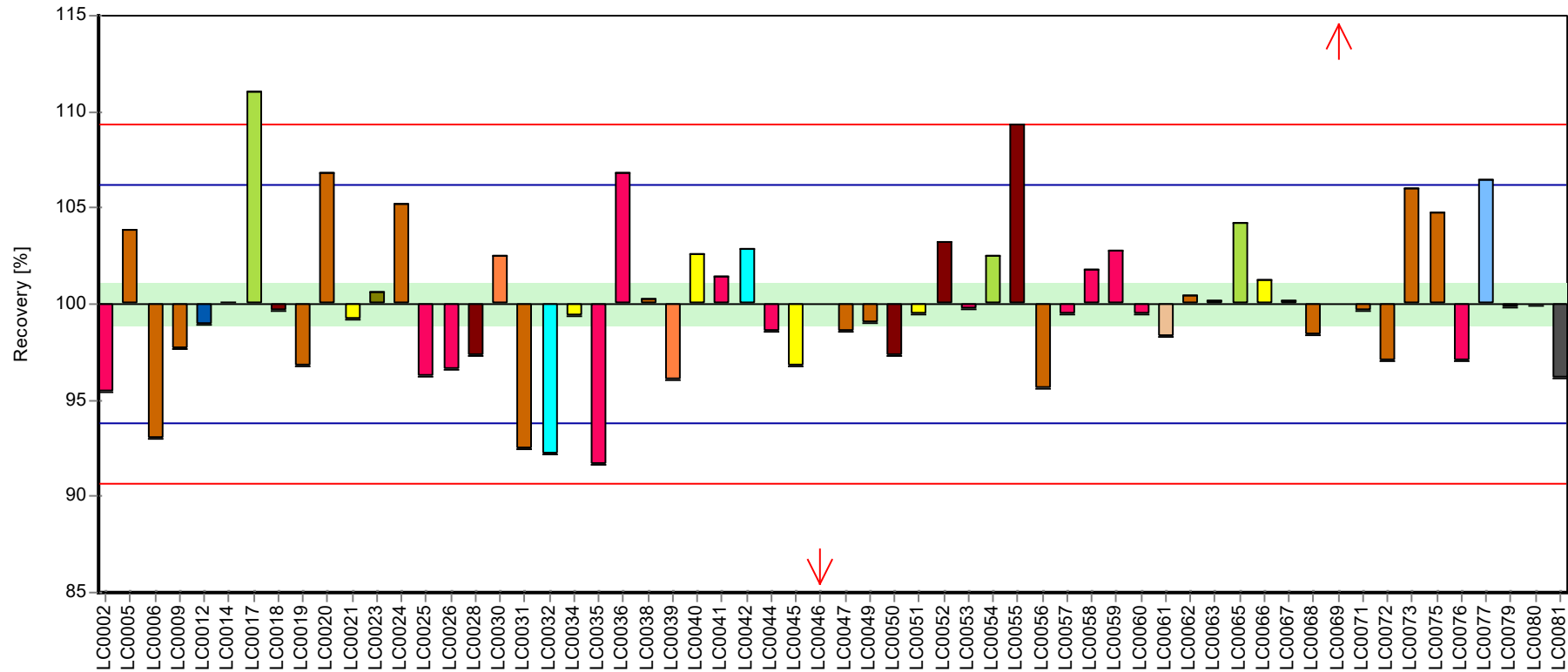
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Calcium

Recovery rate



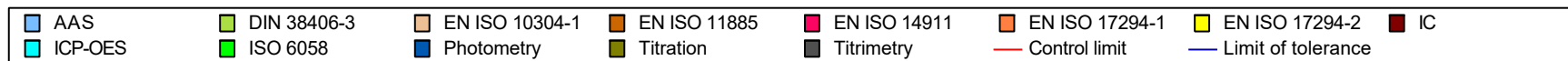
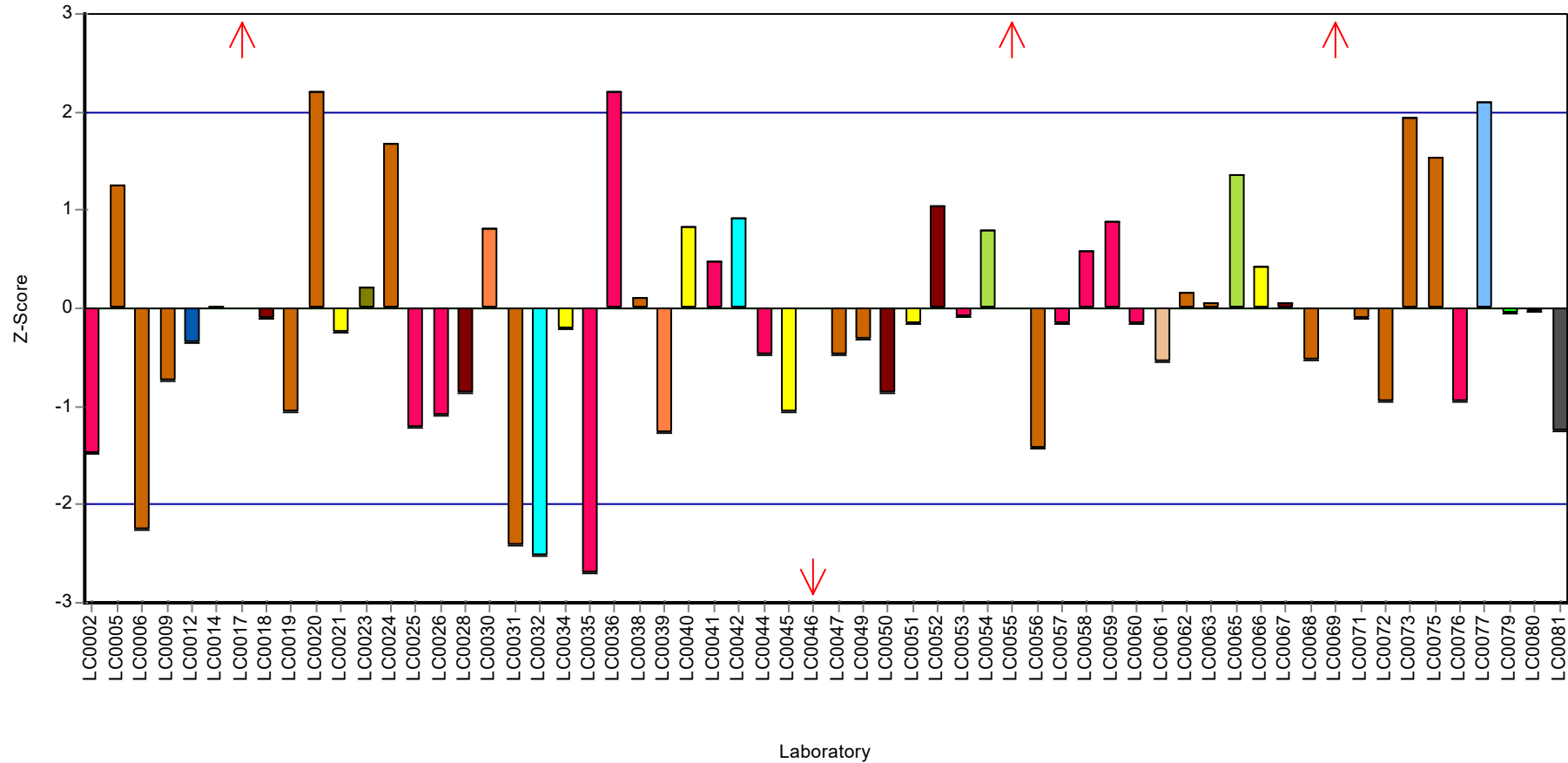
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Calcium

Z-score



Parameter oriented report

N160 A

Chloride

Unit	mg/l
Assigned value ± U (k=2)	72.1 ± 0.47
Criterion	2.89 (4 %)
Minimum - Maximum	67.4 - 76.1
Control test value ± U (k=2)	67.80 ± 5.42

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	71.738	9.383	99.4	-0.14	
LC0002	69.4	3.47	96.2	-0.95	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	73.09	0.73	101	0.33	
LC0006	72.8	4.9	101	0.23	
LC0007	74.12	7.412	103	0.68	
LC0008	-	-	-	-	
LC0009	69.1	3.5	95.8	-1.06	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	72.35	1	100	0.07	
LC0013	-	-	-	-	
LC0014	74.6	1.69	103	0.85	
LC0015	72.4	0.734	100	0.09	
LC0016	71.4	7.6	99	-0.26	
LC0017	74.7	1.9	104	0.88	
LC0018	76.1	6.8	105	1.37	
LC0019	73.2	12.3	101	0.36	
LC0020	62.4	4.1	86.5	-3.38	H
LC0021	73.335	14.667	102	0.41	
LC0022	-	-	-	-	
LC0023	70.98	4.26	98.4	-0.41	
LC0024	72.7	2.8	101	0.19	
LC0025	72	3.6	99.8	-0.05	
LC0026	71.71	0.2	99.4	-0.15	
LC0027	-	-	-	-	
LC0028	64.31	1	89.1	-2.72	H
LC0029	74.451	3.2	103	0.8	
LC0030	72.9	0.5	101	0.26	
LC0031	73.8	4.7	102	0.57	
LC0032	70.49	7.05	97.7	-0.57	
LC0033	-	-	-	-	
LC0034	74.2	7.4	103	0.71	
LC0035	69.257	6.912	96	-1	
LC0036	69.2	6.9	95.9	-1.02	
LC0037	-	-	-	-	
LC0038	73.2	4.49	101	0.36	
LC0039	71.8	7.2	99.5	-0.12	
LC0040	73	0.76	101	0.29	
LC0041	73.3	3.5	102	0.4	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Chloride

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	83	1	115	3.76	H
LC0043	-	-	-	-	
LC0044	67.377	6.5	93.4	-1.65	
LC0045	71.84	2.08	99.6	-0.11	
LC0046	73.5	7.35	102	0.47	
LC0047	71.5	4.3	99.1	-0.22	
LC0048	-	-	-	-	
LC0049	71.62	1.91	99.3	-0.18	
LC0050	73.79	1.9	102	0.57	
LC0051	68.3	10	94.7	-1.33	
LC0052	73.6	3.7	102	0.5	
LC0053	70.12	5.86	97.2	-0.7	
LC0054	73.6	7.95	102	0.5	
LC0055	63.834	0.4	88.5	-2.88	H
LC0056	72.4	5.2	100	0.09	
LC0057	70	4	97	-0.74	
LC0058	70.4	5.87	97.6	-0.61	
LC0059	71.4	5.7	99	-0.26	
LC0060	73.1	1.5	101	0.33	
LC0061	73.24	3.662	102	0.38	
LC0062	73.5	4.7	102	0.47	
LC0063	66.08	1.1	91.6	-2.1	H
LC0064	72.7	1.69	101	0.19	
LC0065	72.91	4.1	101	0.26	
LC0066	70.9	5.5	98.3	-0.43	
LC0067	70.9	4.9	98.3	-0.43	
LC0068	72.1	5.1	99.9	-0.02	
LC0069	72	2.9	99.8	-0.05	
LC0070	-	-	-	-	
LC0071	-	-	-	-	
LC0072	72.5	6.74	100	0.12	
LC0073	75.1	1.31	104	1.02	
LC0074	-	-	-	-	
LC0075	71.12	7.82	98.6	-0.36	
LC0076	70.52	17.63	97.7	-0.56	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	74.4	7.44	103	0.78	
LC0080	68.604	0.136	95.1	-1.23	
LC0081	72.35	3.57	100	0.07	
LC0082	-	-	-	-	

Characteristics of parameter

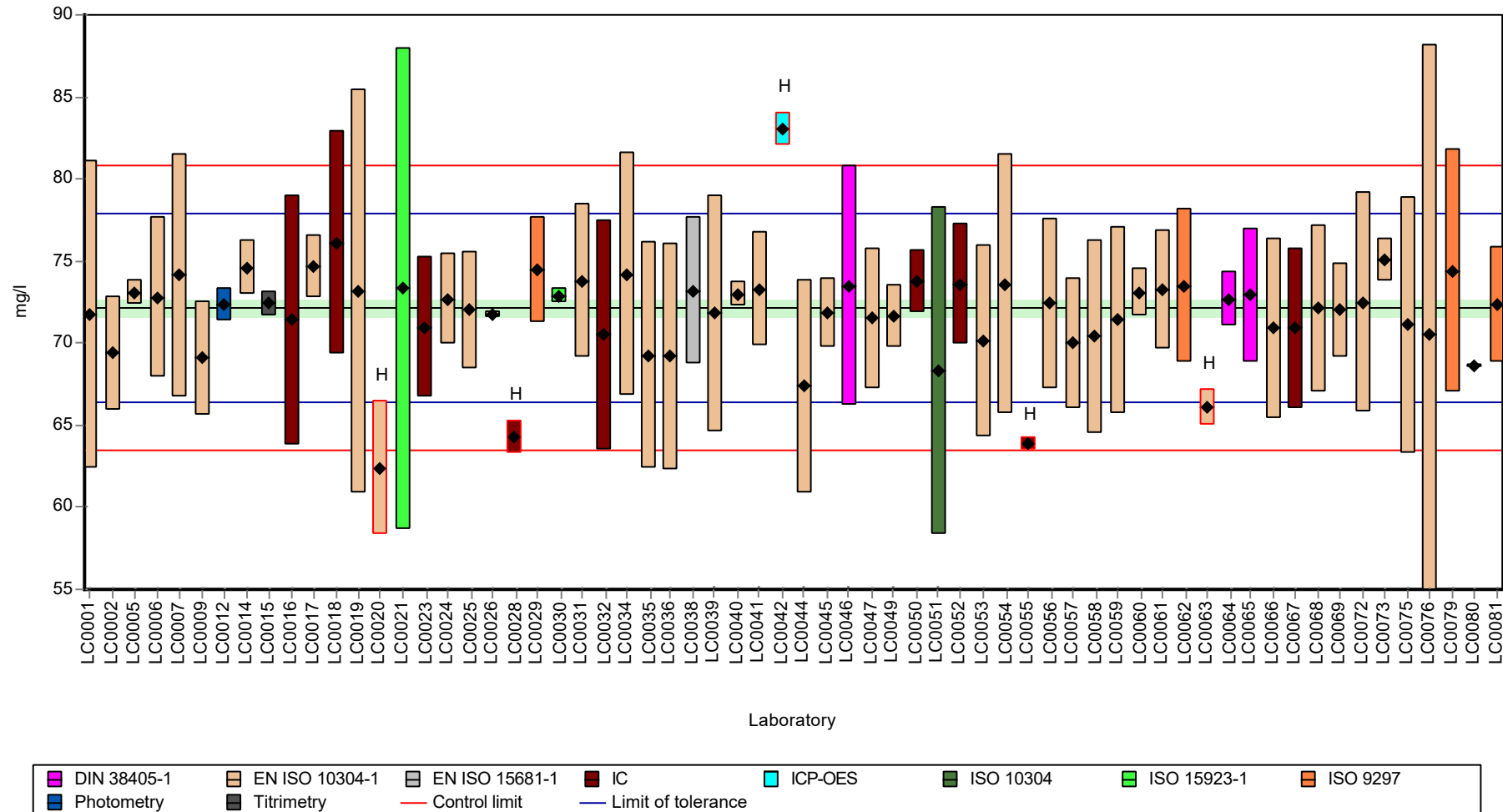
	all results	without outliers	Unit
Mean ± CI (99%)	71.8 ± 1.12	72.1 ± 0.705	mg/l
Minimum	62.4	67.4	mg/l
Maximum	83	76.1	mg/l
Standard deviation	2.99	1.81	mg/l
rel. standard deviation	4.16	2.5	%
n	64	59	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Chloride

Graphical presentation of results

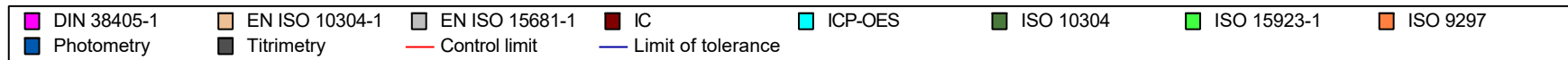
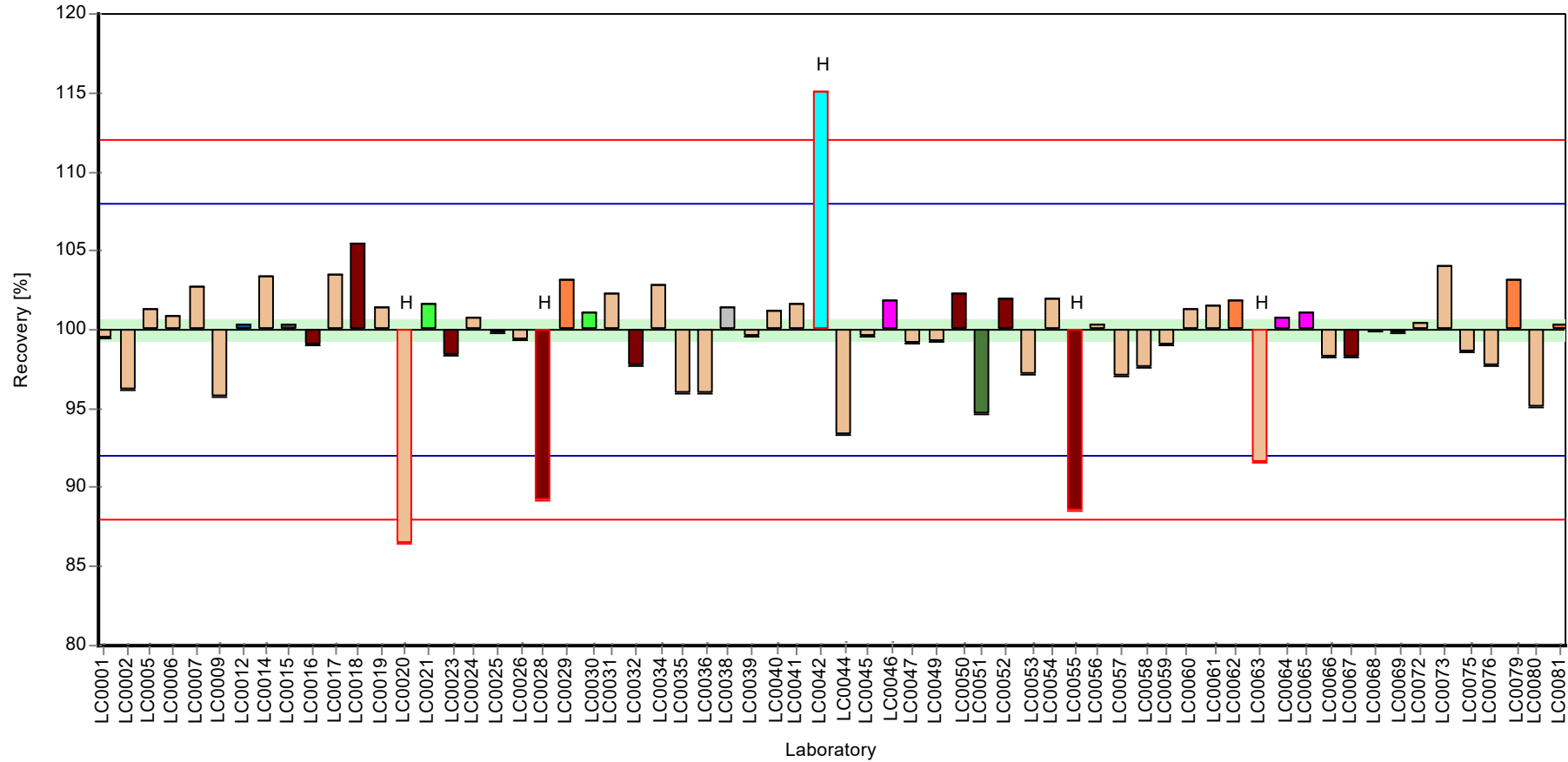
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Chloride

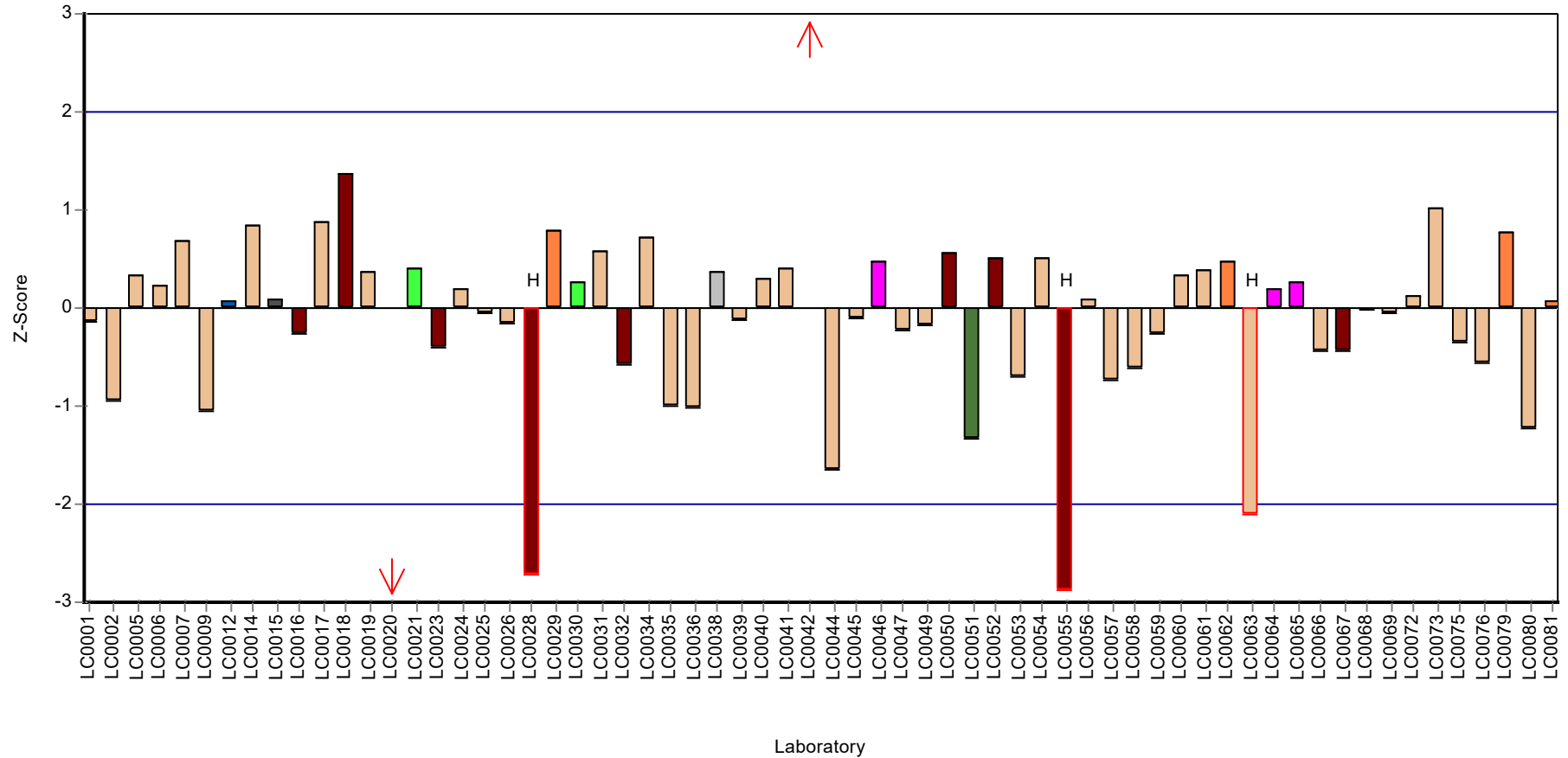
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Chloride

Z-score



Parameter oriented report

N160 B

Chloride

Unit	mg/l
Assigned value ± U (k=2)	22.3 ± 0.157
Criterion	0.891 (4 %)
Minimum - Maximum	20.7 - 23.9
Control test value ± U (k=2)	21.40 ± 1.71

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	22.161	2.899	99.5	-0.13	
LC0002	20.67	1.03	92.8	-1.81	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	22.19	0.22	99.6	-0.1	
LC0006	22.6	1.5	101	0.36	
LC0007	22.64	2.264	102	0.41	
LC0008	-	-	-	-	
LC0009	21.3	1.1	95.6	-1.1	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	23.83	1	107	1.74	
LC0013	-	-	-	-	
LC0014	22.7	0.51	102	0.47	
LC0015	21.7	0.22	97.4	-0.65	
LC0016	22.4	2.4	101	0.14	
LC0017	22.7	0.59	102	0.47	
LC0018	22.3	2	100	0.02	
LC0019	22.4	3.9	101	0.14	
LC0020	21.9	1.5	98.3	-0.43	
LC0021	22.705	4.541	102	0.48	
LC0022	-	-	-	-	
LC0023	21.73	1.3	97.5	-0.62	
LC0024	22.72	0.87	102	0.49	
LC0025	22	1.1	98.7	-0.31	
LC0026	22.28	0.2	100	0	
LC0027	-	-	-	-	
LC0028	22.16	0.11	99.5	-0.13	
LC0029	21.981	0.95	98.7	-0.34	
LC0030	22.6	0.2	101	0.36	
LC0031	22.1	1.4	99.2	-0.2	
LC0032	22.06	2.21	99	-0.25	
LC0033	-	-	-	-	
LC0034	22.8	2.3	102	0.58	
LC0035	21.612	2.157	97	-0.75	
LC0036	22.8	2.3	102	0.58	
LC0037	-	-	-	-	
LC0038	22.8	1.4	102	0.58	
LC0039	21.7	2.2	97.4	-0.65	
LC0040	22.6	0.23	101	0.36	
LC0041	22.9	1.1	103	0.7	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Chloride

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	25.2	1	113	3.28	H
LC0043	-	-	-	-	
LC0044	22.114	2.2	99.3	-0.18	
LC0045	22.08	0.64	99.1	-0.22	
LC0046	21.9	2.19	98.3	-0.43	
LC0047	22.1	1.4	99.2	-0.2	
LC0048	-	-	-	-	
LC0049	22.45	0.599	101	0.19	
LC0050	22.25	0.09	99.9	-0.03	
LC0051	22	3	98.7	-0.31	
LC0052	22.8	1.1	102	0.58	
LC0053	21.3	1.77	95.6	-1.1	
LC0054	22.74	2.485	102	0.52	
LC0055	21.58	0.16	96.9	-0.79	
LC0056	22.6	5.2	101	0.36	
LC0057	21.4	1.1	96.1	-0.99	
LC0058	21.9	1.83	98.3	-0.43	
LC0059	21.3	1.7	95.6	-1.1	
LC0060	22.7	1	102	0.47	
LC0061	22.51	1.126	101	0.26	
LC0062	23.1	1.5	104	0.92	
LC0063	20.8	0.6	93.4	-1.66	
LC0064	22.7	1.65	102	0.47	
LC0065	22.54	1.3	101	0.29	
LC0066	22.5	1.9	101	0.25	
LC0067	22.4	1.6	101	0.14	
LC0068	22.2	1.6	99.6	-0.09	
LC0069	22.2	0.9	99.6	-0.09	
LC0070	-	-	-	-	
LC0071	-	-	-	-	
LC0072	21.9	2.04	98.3	-0.43	
LC0073	23.1	0.652	104	0.92	
LC0074	-	-	-	-	
LC0075	22	2.42	98.7	-0.31	
LC0076	21.68	5.42	97.3	-0.67	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	23.85	2.38	107	1.76	
LC0080	18.955	0.05	85.1	-3.73	H
LC0081	23.58	2.11	106	1.46	
LC0082	-	-	-	-	

Characteristics of parameter

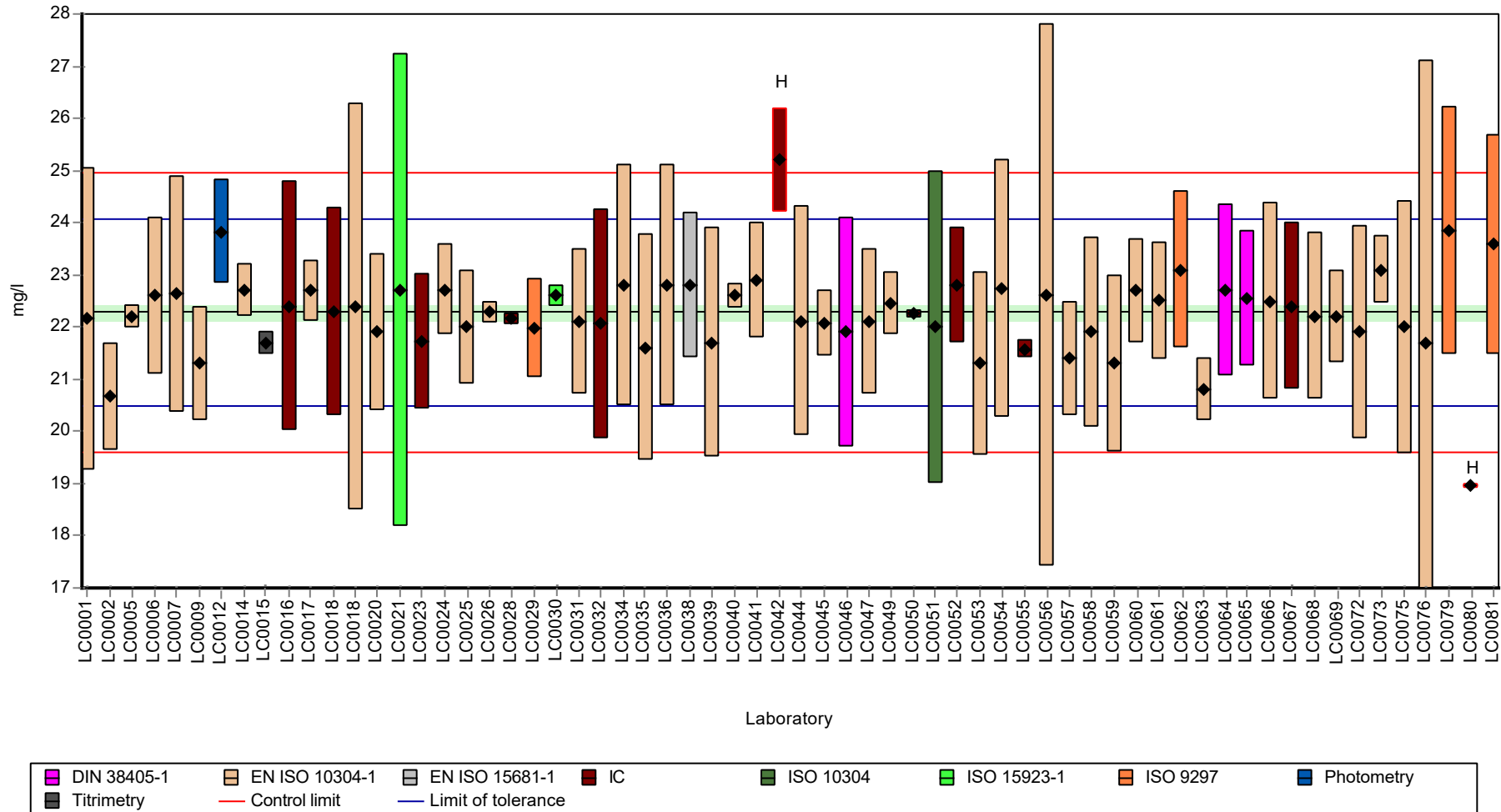
	all results	without outliers	Unit
Mean ± CI (99%)	22.3 ± 0.309	22.3 ± 0.235	mg/l
Minimum	19	20.7	mg/l
Maximum	25.2	23.9	mg/l
Standard deviation	0.825	0.618	mg/l
rel. standard deviation	3.7	2.77	%
n	64	62	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Chloride

Graphical presentation of results

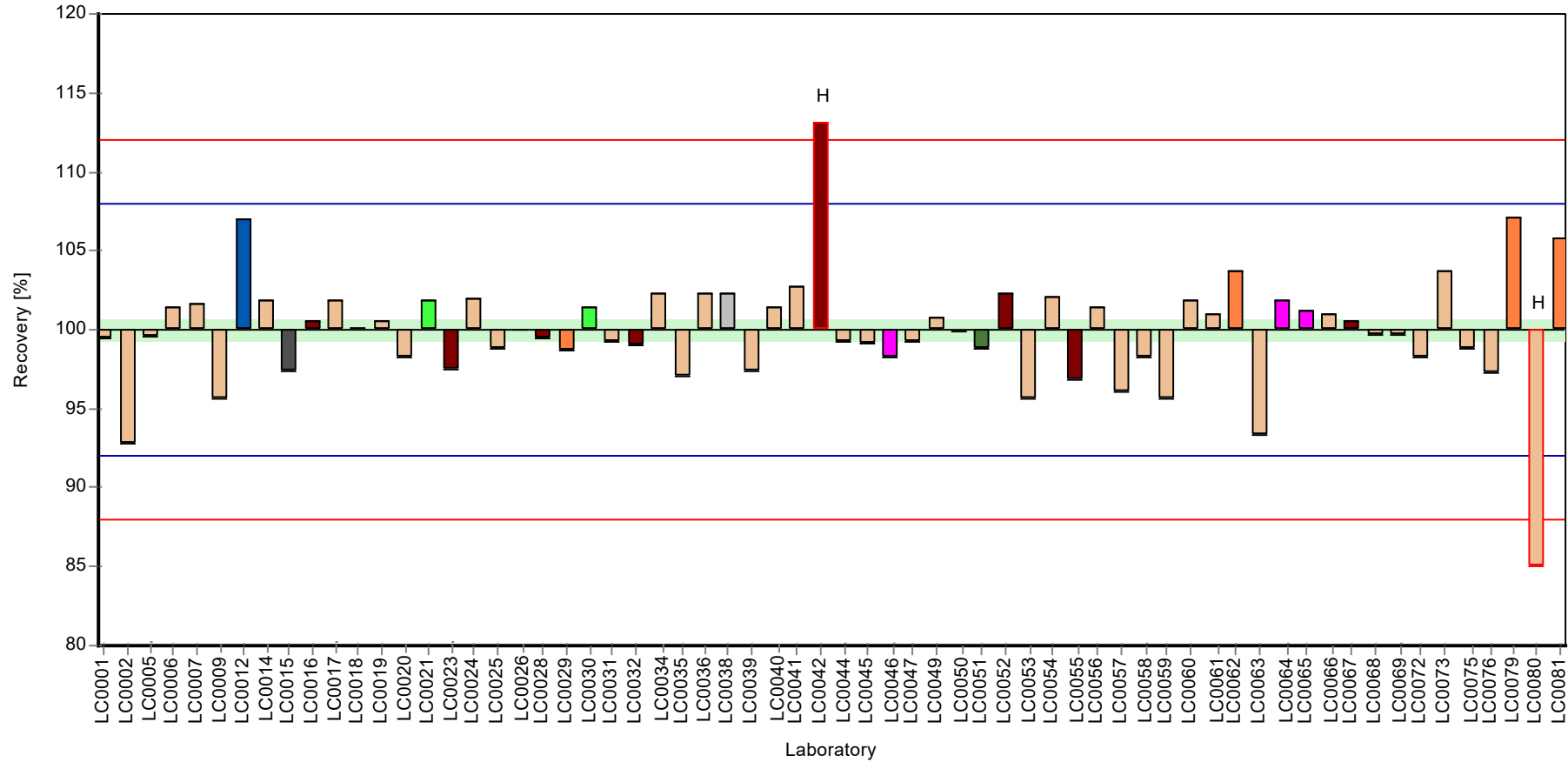
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Chloride

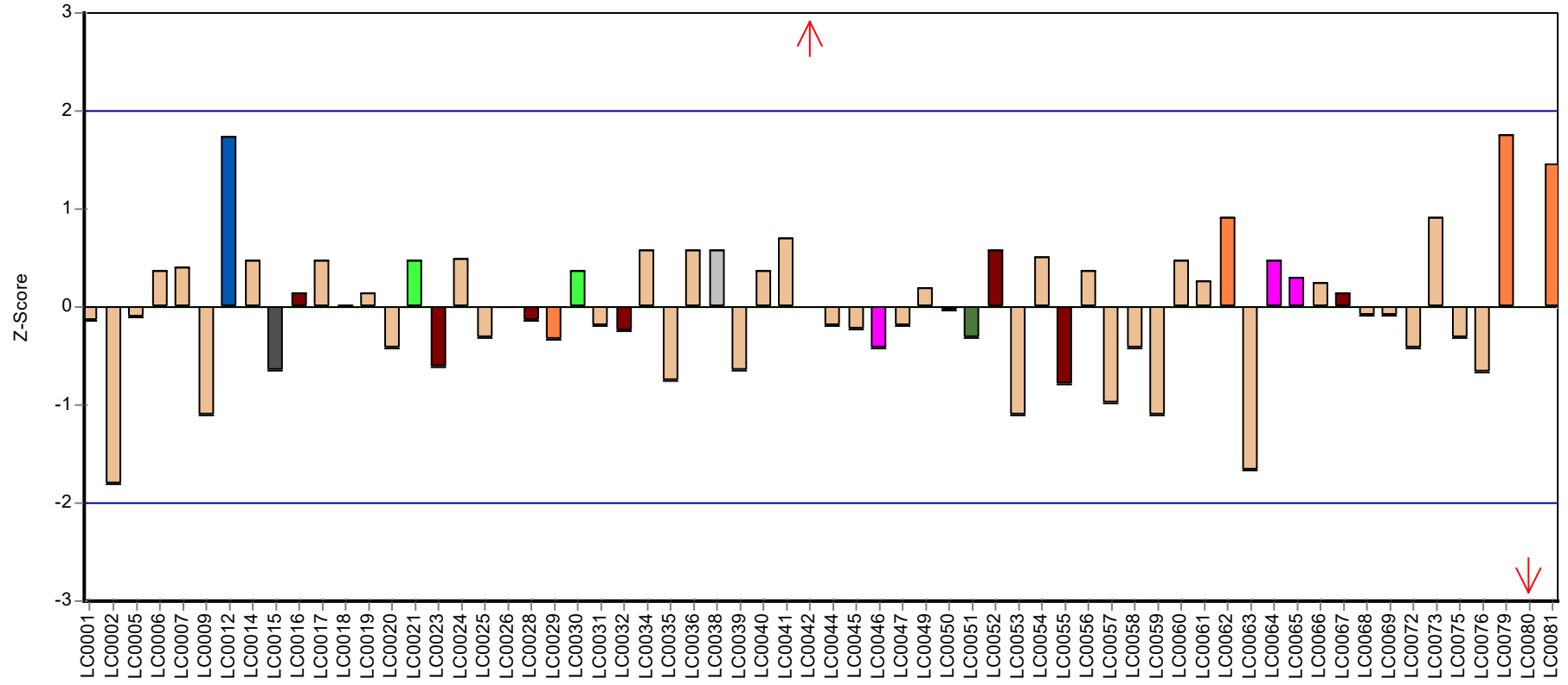
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Chloride

Z-score



Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160ADOC, Parameter: DOC (as C)

Parameter oriented report

N160 A DOC

DOC (as C)

Unit	mg/l
Assigned value ± U (k=2)	2.08 ± 0.0585
Criterion	0.208 (10 %)
Minimum - Maximum	1.72 - 2.71
Control test value ± U (k=2)	1.940 ± 0.348

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2.145	0.386	103	0.31	
LC0002	-	-	-	-	
LC0003	2.21	0.35	106	0.63	
LC0004	-	-	-	-	
LC0005	2.17	0.0546	104	0.43	
LC0006	1.72	0.28	82.7	-1.73	
LC0007	2.5	0.625	120	2.02	
LC0008	-	-	-	-	
LC0009	2.17	0.18	104	0.43	
LC0010	-	-	-	-	
LC0011	2.34	0.14	113	1.25	
LC0012	-	-	-	-	
LC0013	1.84	0.19	88.5	-1.15	
LC0014	2.74	0.2	132	3.17	H
LC0015	-	-	-	-	
LC0016	2.16	0.3	104	0.39	
LC0017	-	-	-	-	
LC0018	2.11	0.48	101	0.14	
LC0019	2	0.3	96.2	-0.38	
LC0020	2.23	0.17	107	0.72	
LC0021	2.045	0.818	98.3	-0.17	
LC0022	2.08	0.058	100	0	
LC0023	1.842	0.276	88.6	-1.14	
LC0024	1.891	0.1	90.9	-0.91	
LC0025	1.97	0.18	94.7	-0.53	
LC0026	2.042	0.2	98.2	-0.18	
LC0027	2.13	0.056	102	0.24	
LC0028	1.94	0.14	93.3	-0.67	
LC0029	-	-	-	-	
LC0030	2.34	0.25	113	1.25	
LC0031	-	-	-	-	
LC0032	1.89	0.38	90.9	-0.91	
LC0033	-	-	-	-	
LC0034	-	-	-	-	
LC0035	2.04	0.18	98.1	-0.19	
LC0036	2.2	0.22	106	0.58	
LC0037	-	-	-	-	
LC0038	1.98	0.178	95.2	-0.48	
LC0039	2.45	0.25	118	1.78	
LC0040	2.22	0.051	107	0.67	
LC0041	-	-	-	-	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160ADOC, Parameter: DOC (as C)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	-	-	-	-	
LC0044	2.08	0.2	100	0	
LC0045	2.046	0.17	98.4	-0.16	
LC0046	1.97	0.197	94.7	-0.53	
LC0047	-	-	-	-	
LC0048	1.76	0.2	84.6	-1.54	
LC0049	2.054	0.121	98.8	-0.12	
LC0050	1.79	0.31	86.1	-1.39	
LC0051	1.9	0.4	91.4	-0.86	
LC0052	1.99	0.2	95.7	-0.43	
LC0053	2.71	0.302	130	3.03	
LC0054	-	-	-	-	
LC0055	2.2	0.2	106	0.58	
LC0056	2.45	0.3	118	1.78	
LC0057	-	-	-	-	
LC0058	1.9	0.36	91.4	-0.86	
LC0059	2	0.66	96.2	-0.38	
LC0060	2.22	0.05	107	0.67	
LC0061	2	0.16	96.2	-0.38	
LC0062	-	-	-	-	
LC0063	-	-	-	-	
LC0064	-	-	-	-	
LC0065	-	-	-	-	
LC0066	1.9	0.4	91.4	-0.86	
LC0067	3.85	0.5	185	8.51	H
LC0068	2.09	0.3	100	0.05	
LC0069	-	-	-	-	
LC0070	-	-	-	-	
LC0071	2.05	0.23	98.6	-0.14	
LC0072	2.81	0.0135	135	3.51	H
LC0073	1.88	0.037	90.4	-0.96	
LC0074	-	-	-	-	
LC0075	2.11	0.42	101	0.14	
LC0076	-	-	-	-	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	1.09	0.11	52.4	-4.76	H
LC0080	-	-	-	-	
LC0081	-	-	-	-	
LC0082	-	-	-	-	

Characteristics of parameter

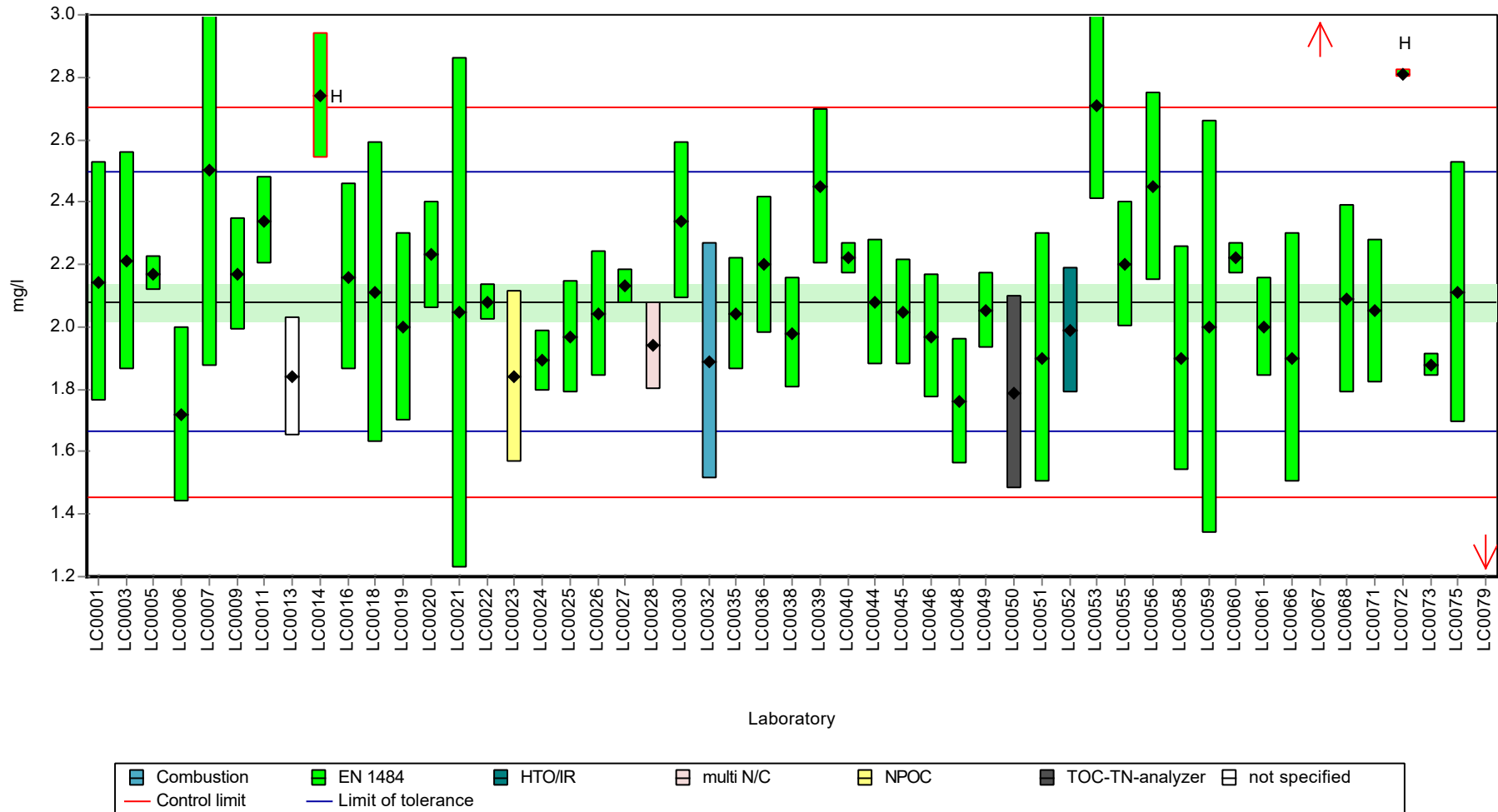
	all results	without outliers	Unit
Mean ± CI (99%)	2.12 ± 0.155	2.08 ± 0.0877	mg/l
Minimum	1.09	1.72	mg/l
Maximum	3.85	2.71	mg/l
Standard deviation	0.37	0.2	mg/l
rel. standard deviation	17.4	9.64	%
n	51	47	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160ADOC, Parameter: DOC (as C)

Graphical presentation of results

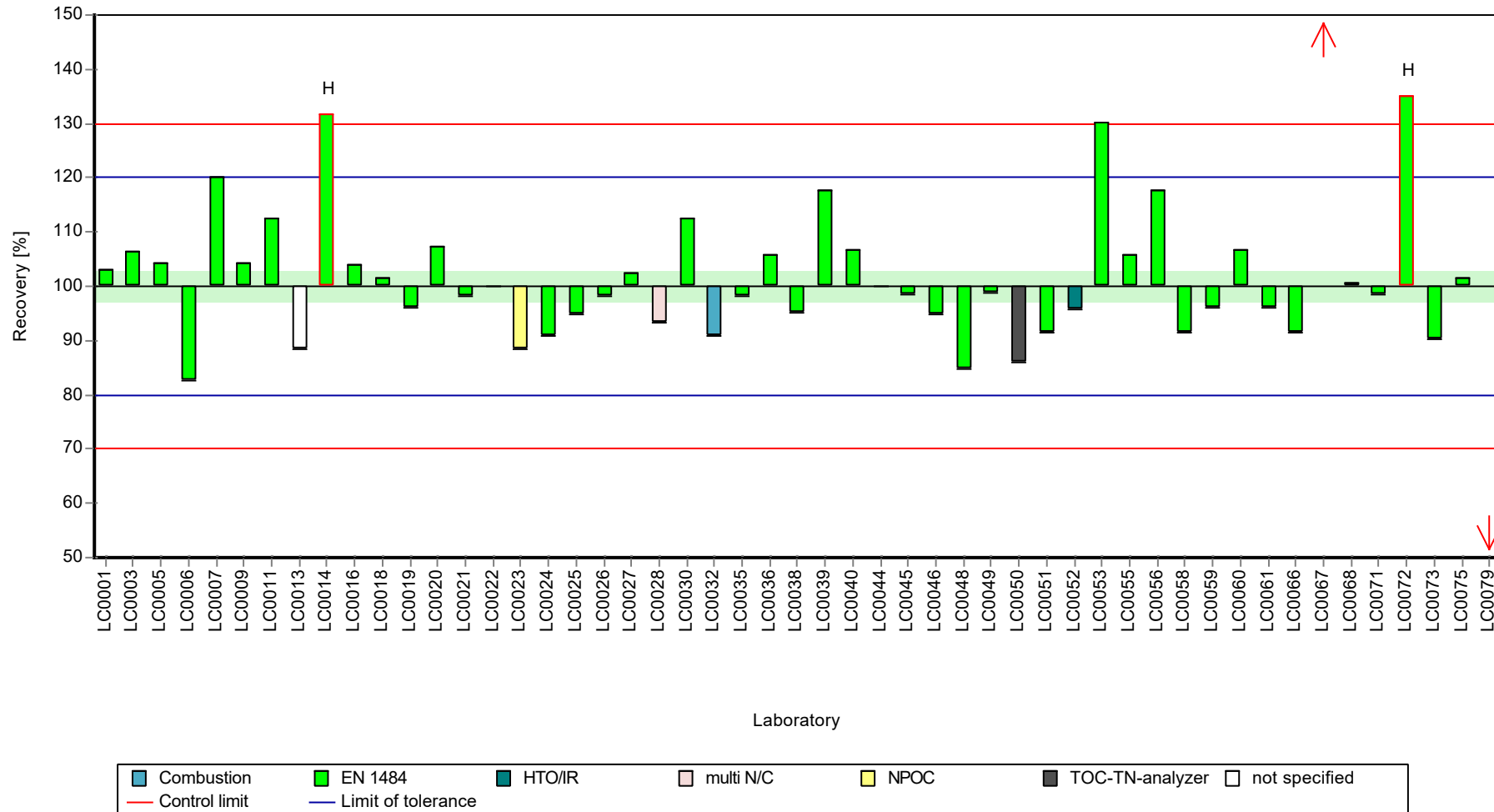
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160ADOC, Parameter: DOC (as C)

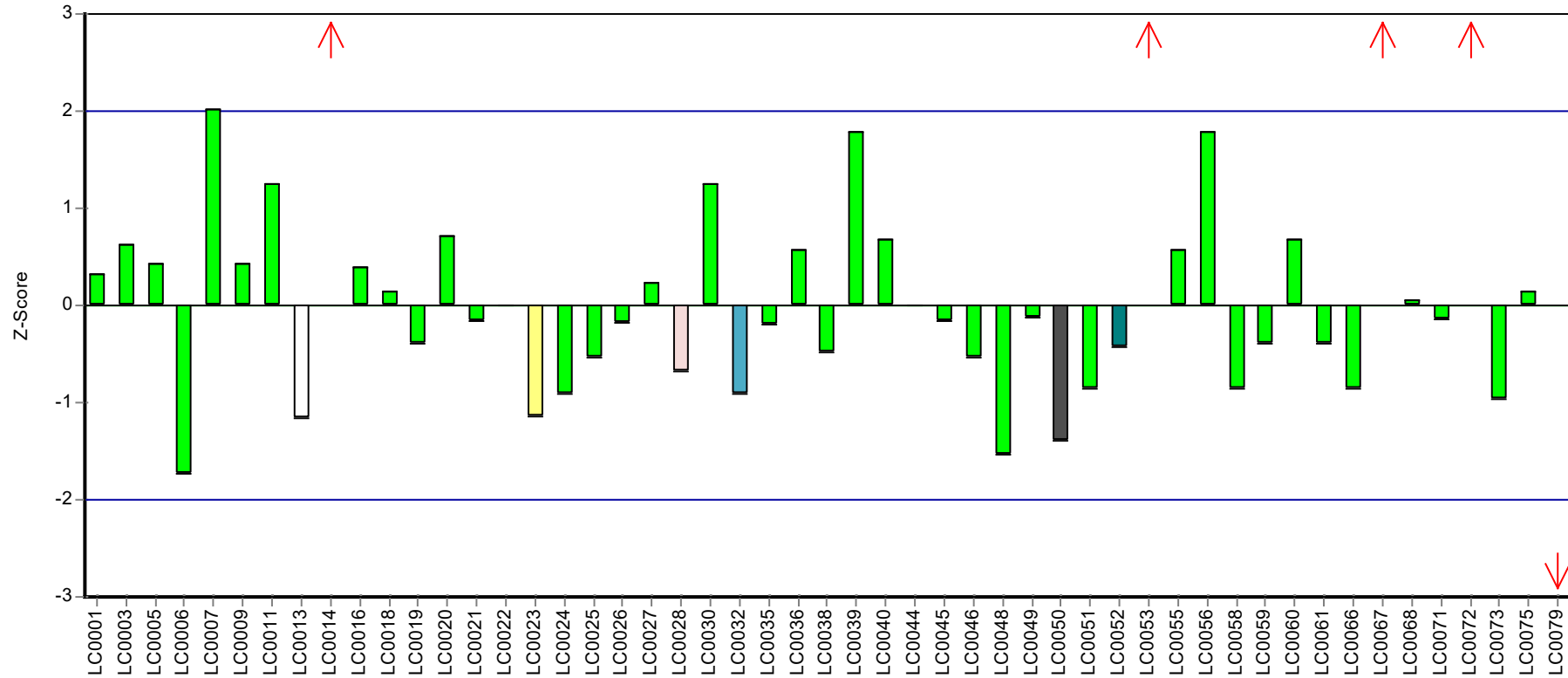
Recovery rate



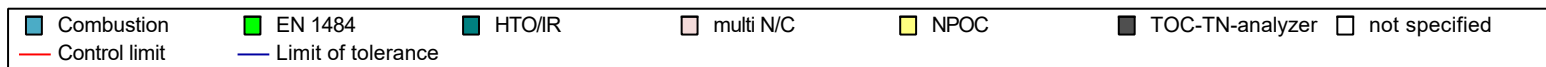
Parameter oriented report Nutrients/Major Ions N160

Sample: N160ADOC, Parameter: DOC (as C)

Z-score



Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160BDOC, Parameter: DOC (as C)

Parameter oriented report

N160 B DOC

DOC (as C)

Unit	mg/l
Assigned value ± U (k=2)	2.63 ± 0.0618
Criterion	0.263 (10 %)
Minimum - Maximum	2.2 - 3.18
Control test value ± U (k=2)	2.32 ± 0.417

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2.76	0.497	105	0.51	
LC0002	-	-	-	-	
LC0003	2.8	0.45	107	0.66	
LC0004	-	-	-	-	
LC0005	2.58	0.065	98.2	-0.18	
LC0006	2.48	0.4	94.4	-0.56	
LC0007	2.96	0.74	113	1.27	
LC0008	-	-	-	-	
LC0009	2.71	0.22	103	0.32	
LC0010	-	-	-	-	
LC0011	2.89	0.17	110	1	
LC0012	-	-	-	-	
LC0013	2.484	0.011	94.6	-0.54	
LC0014	3.07	0.22	117	1.69	
LC0015	-	-	-	-	
LC0016	2.86	0.3	109	0.89	
LC0017	-	-	-	-	
LC0018	2.69	0.32	102	0.24	
LC0019	2.3	0.3	87.6	-1.24	
LC0020	2.73	0.21	104	0.39	
LC0021	2.697	1.079	103	0.27	
LC0022	2.58	0.072	98.2	-0.18	
LC0023	2.366	0.355	90.1	-0.99	
LC0024	2.318	0.12	88.2	-1.18	
LC0025	2.6	0.23	99	-0.1	
LC0026	2.626	0.2	100	0.00	
LC0027	2.62	0.018	99.7	-0.03	
LC0028	2.63	0.14	100	0.01	
LC0029	-	-	-	-	
LC0030	3.18	0.3	121	2.11	
LC0031	-	-	-	-	
LC0032	2.5	0.5	95.2	-0.48	
LC0033	-	-	-	-	
LC0034	-	-	-	-	
LC0035	2.42	0.21	92.1	-0.79	
LC0036	2.8	0.28	107	0.66	
LC0037	-	-	-	-	
LC0038	2.46	0.221	93.7	-0.64	
LC0039	2.58	0.26	98.2	-0.18	
LC0040	2.8	0.046	107	0.66	
LC0041	-	-	-	-	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160BDOC, Parameter: DOC (as C)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	-	-	-	-	
LC0044	2.7	0.25	103	0.28	
LC0045	2.573	0.21	98	-0.2	
LC0046	2.47	0.247	94	-0.6	
LC0047	-	-	-	-	
LC0048	2.36	0.28	89.8	-1.02	
LC0049	2.59	0.153	98.6	-0.14	
LC0050	2.2	0.22	83.8	-1.62	
LC0051	2.4	0.5	91.4	-0.86	
LC0052	2.43	0.24	92.5	-0.75	
LC0053	2.6	0.289	99	-0.1	
LC0054	-	-	-	-	
LC0055	3.1	0.2	118	1.8	
LC0056	3.02	0.3	115	1.5	
LC0057	-	-	-	-	
LC0058	2.5	0.47	95.2	-0.48	
LC0059	2.53	0.3	96.3	-0.37	
LC0060	2.73	0.1	104	0.39	
LC0061	2.6	0.21	99	-0.1	
LC0062	-	-	-	-	
LC0063	-	-	-	-	
LC0064	-	-	-	-	
LC0065	-	-	-	-	
LC0066	2.6	0.6	99	-0.1	
LC0067	3.81	0.49	145	4.51	H
LC0068	2.47	0.35	94	-0.6	
LC0069	-	-	-	-	
LC0070	-	-	-	-	
LC0071	2.44	0.05	92.9	-0.71	
LC0072	2.85	0.0137	109	0.85	
LC0073	2.49	0.0365	94.8	-0.52	
LC0074	-	-	-	-	
LC0075	2.33	0.46	88.7	-1.13	
LC0076	-	-	-	-	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	2.86	0.29	109	0.89	
LC0080	-	-	-	-	
LC0081	-	-	-	-	
LC0082	-	-	-	-	

Characteristics of parameter

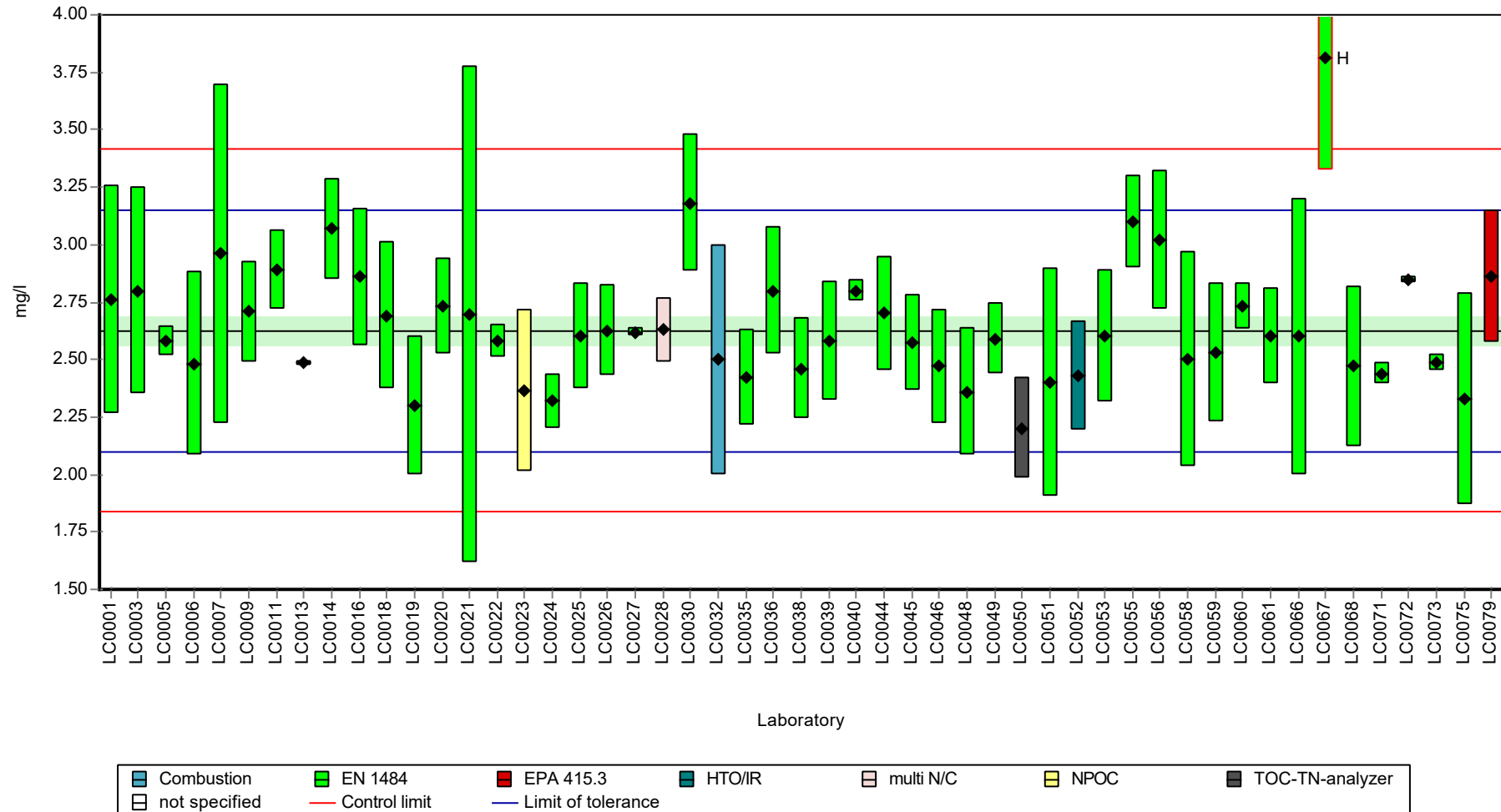
	all results	without outliers	Unit
Mean ± CI (99%)	2.65 ± 0.115	2.63 ± 0.0928	mg/l
Minimum	2.2	2.2	mg/l
Maximum	3.81	3.18	mg/l
Standard deviation	0.273	0.219	mg/l
rel. standard deviation	10.3	8.32	%
n	51	50	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160BDOC, Parameter: DOC (as C)

Graphical presentation of results

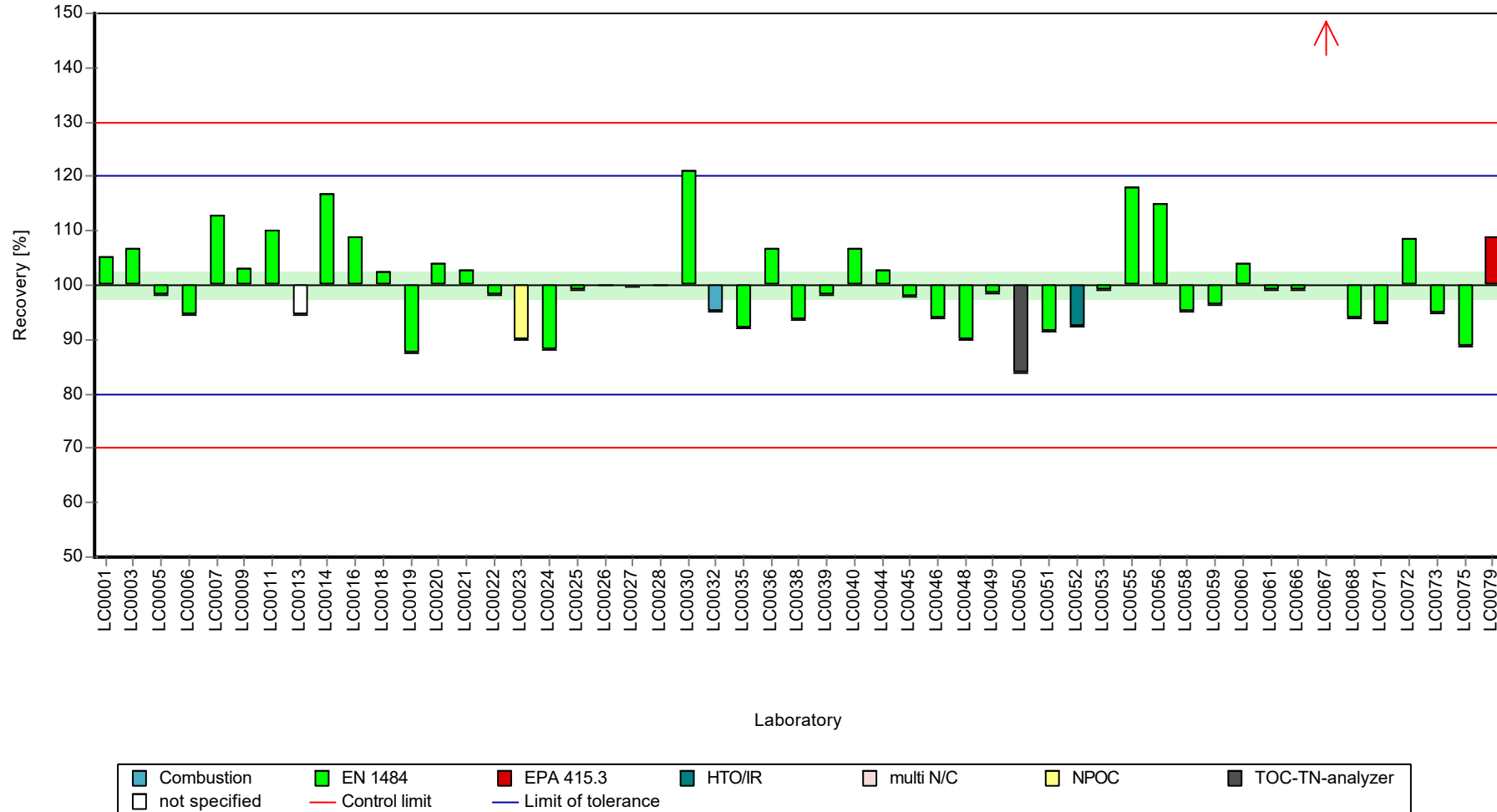
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160BDOC, Parameter: DOC (as C)

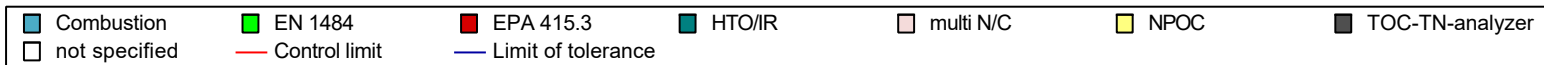
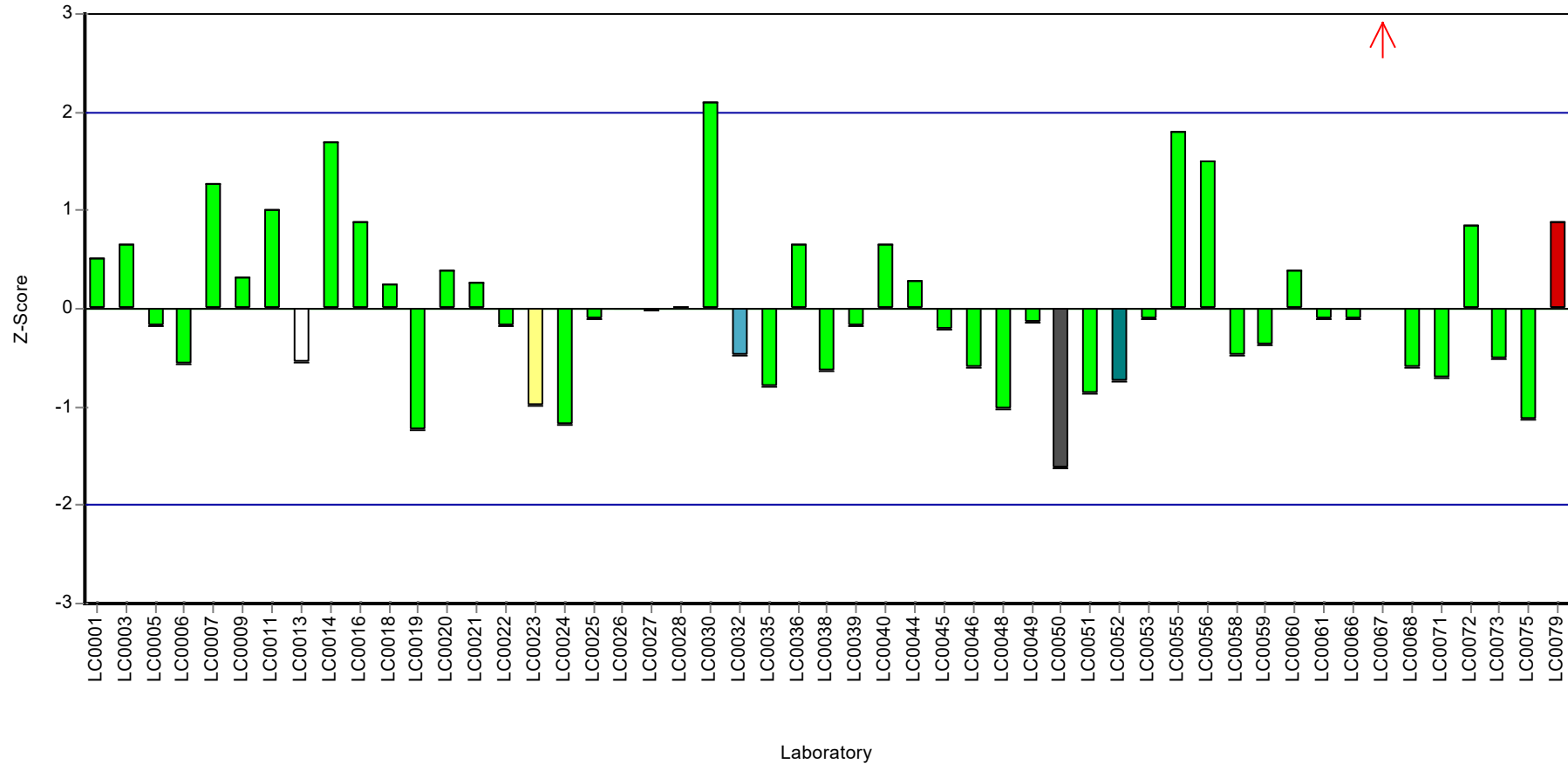
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160BDOC, Parameter: DOC (as C)

Z-score



Parameter oriented report

N160 A

El. conductivity (25°C)

Unit	µS/cm
Assigned value ± U (k=2)	1050 ± 3.6
Criterion	13.6 (1.3 %)
Minimum - Maximum	1010 - 1090
Control test value ± U (k=2)	1010.0 ± 151

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1061	53	101	0.83	
LC0002	1017.25	12.92	96.9	-2.38	
LC0003	1051	15	100	0.1	
LC0004	-	-	-	-	
LC0005	1000	40	95.3	-3.64	H
LC0006	1050	31	100	0.02	
LC0007	1056	31.68	101	0.46	
LC0008	1060	10	101	0.76	
LC0009	1060	19	101	0.76	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	995.5	2	94.8	-3.97	H
LC0013	-	-	-	-	
LC0014	1029.6	3	98.1	-1.47	
LC0015	1056	7.48	101	0.46	
LC0016	1060	1	101	0.76	
LC0017	1039	29	99	-0.78	
LC0018	1102	110	105	3.84	H
LC0019	1062	33	101	0.9	
LC0020	1047	34	99.7	-0.2	
LC0021	1012	101	96.4	-2.76	
LC0022	1050	11	100	0.02	
LC0023	1060	27	101	0.76	
LC0024	1051	8.4	100	0.1	
LC0025	1055	31	101	0.39	
LC0026	1045	2	99.6	-0.34	
LC0027	1056	1.86	101	0.46	
LC0028	1050.5	6.36	100	0.06	
LC0029	876	4.12	83.5	-12.7	H
LC0030	1030	50	98.1	-1.44	
LC0031	1048	6	99.8	-0.12	
LC0032	1051	5	100	0.1	
LC0033	1090	41	104	2.96	
LC0034	1044	31	99.5	-0.41	
LC0035	1057	18	101	0.54	
LC0036	1040	100	99.1	-0.71	
LC0037	-	-	-	-	
LC0038	1060	26.1	101	0.76	
LC0039	1061	10	101	0.83	
LC0040	1049	13	99.9	-0.05	
LC0041	1066	10	102	1.2	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: El. conductivity (25°C)

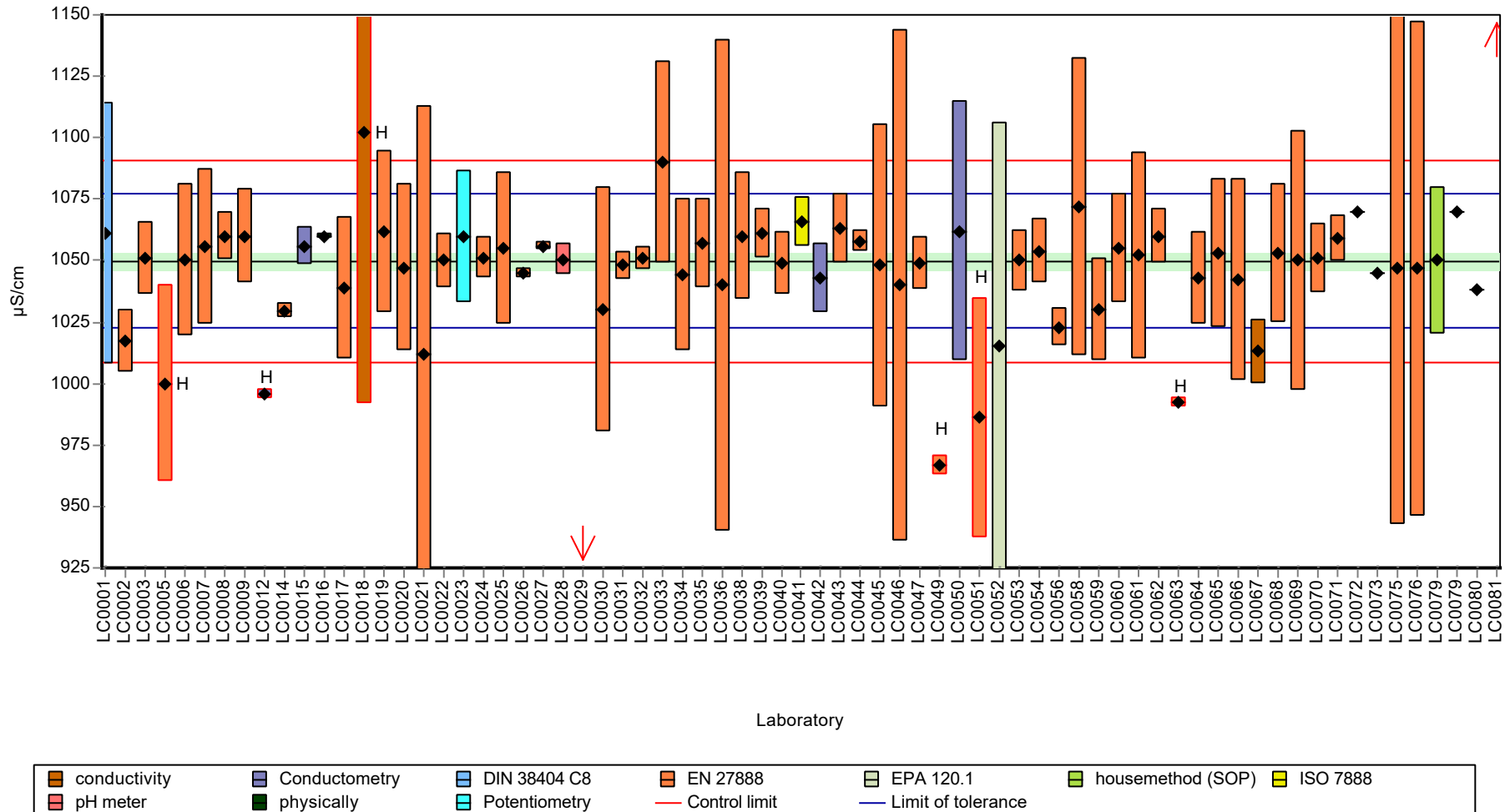
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	1043	14	99.4	-0.49	
LC0043	1063	14.35	101	0.98	
LC0044	1058	4.51	101	0.61	
LC0045	1048	57.6	99.8	-0.12	
LC0046	1040	104	99.1	-0.71	
LC0047	1049	11	99.9	-0.05	
LC0048	-	-	-	-	
LC0049	967	4	92.1	-6.06	H
LC0050	1062	53.1	101	0.9	
LC0051	986	49	93.9	-4.67	H
LC0052	1015	91.3	96.7	-2.54	
LC0053	1050	12.6	100	0.02	
LC0054	1054	13.07	100	0.32	
LC0055	-	-	-	-	
LC0056	1023	8	97.5	-1.95	
LC0057	-	-	-	-	
LC0058	1072	60.7	102	1.64	
LC0059	1030	21	98.1	-1.44	
LC0060	1055	22	101	0.39	
LC0061	1052	42.1	100	0.17	
LC0062	1060	11	101	0.76	
LC0063	992.5	2	94.6	-4.19	H
LC0064	1043	18.7	99.4	-0.49	
LC0065	1053	30.5	100	0.24	
LC0066	1042	41	99.3	-0.56	
LC0067	1013	13	96.5	-2.69	
LC0068	1053	28	100	0.24	
LC0069	1050	53	100	0.02	
LC0070	1051	14.12	100	0.1	
LC0071	1059	9.5	101	0.68	
LC0072	1070	0.482	102	1.49	
LC0073	1045	0.283	99.6	-0.34	
LC0074	-	-	-	-	
LC0075	1047	104.7	99.7	-0.2	
LC0076	1046.7	100.67	99.7	-0.22	
LC0077	-	-	-	-	
LC0078	1050	30	100	0.02	
LC0079	1070	0.03	102	1.49	
LC0080	1038	0.5	98.9	-0.85	
LC0081	1394	3	133	25.2	H
LC0082	-	-	-	-	

Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	1050 ± 18.2	1050 ± 5.39	µS/cm
Minimum	876	1010	µS/cm
Maximum	1390	1090	µS/cm
Standard deviation	51.2	14.3	µS/cm
rel. standard deviation	4.88	1.36	%
n	71	63	-

Graphical presentation of results

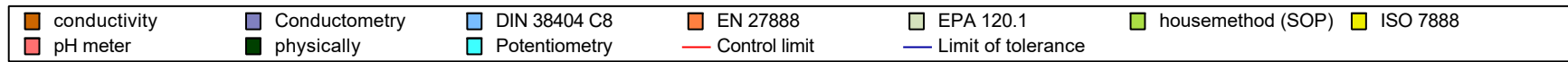
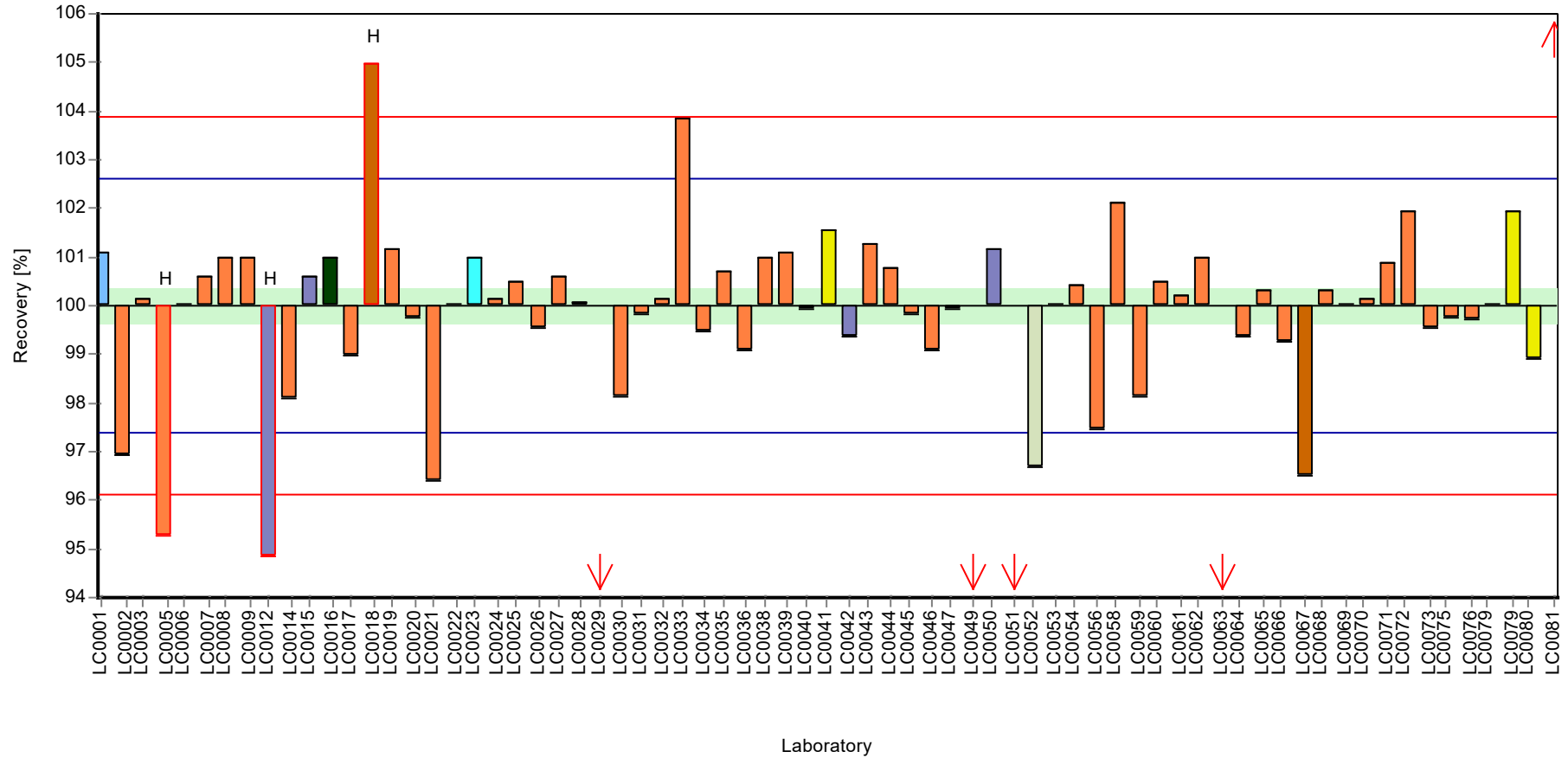
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: El. conductivity (25°C)

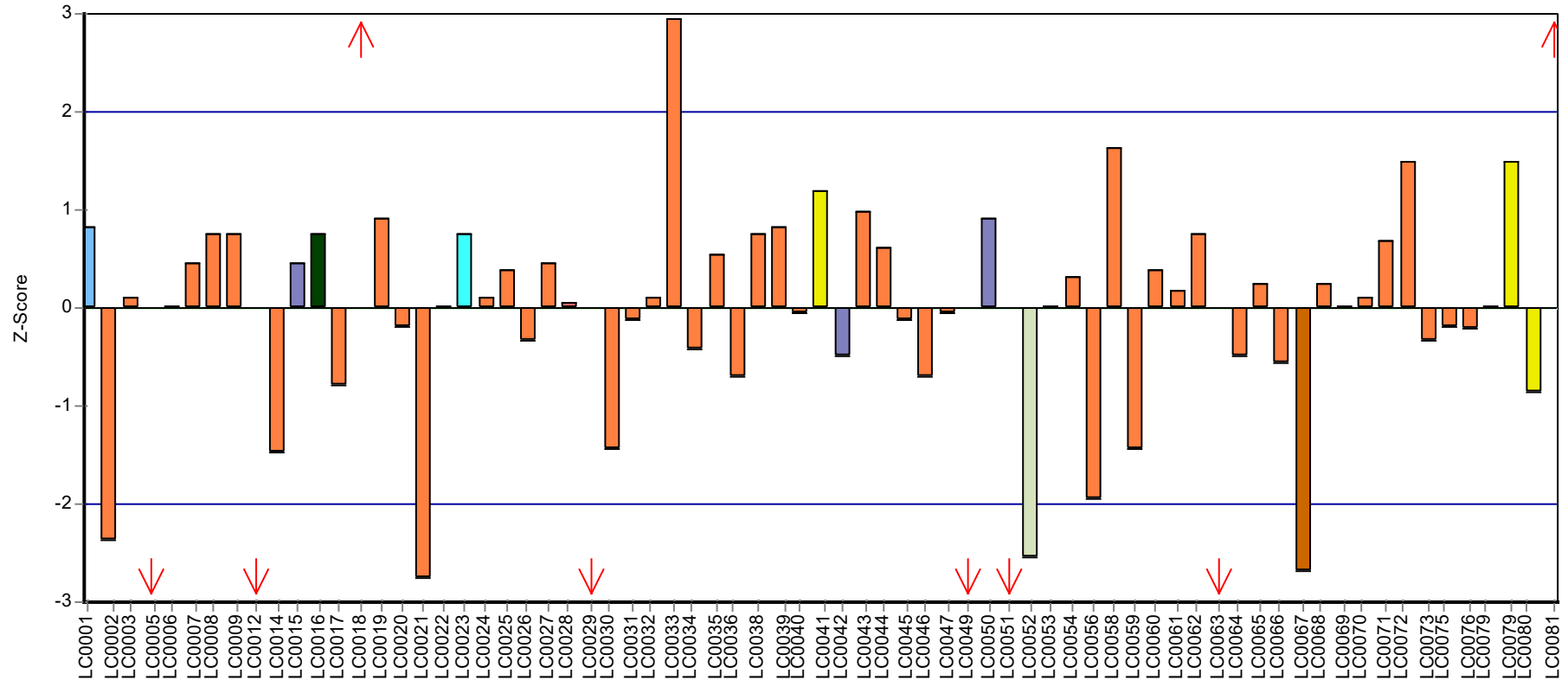
Recovery rate



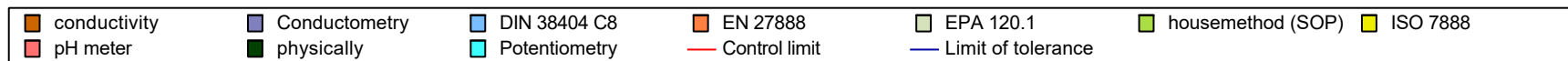
Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: El. conductivity (25°C)

Z-score



Laboratory



Parameter oriented report

N160 B

El. conductivity (25°C)

Unit	µS/cm
Assigned value ± U (k=2)	474 ± 1.13
Criterion	6.16 (1.3 %)
Minimum - Maximum	461 - 482
Control test value ± U (k=2)	455.0 ± 68.2

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	478	24	101	0.63	
LC0002	461	5.85	97.2	-2.13	
LC0003	476	6	100	0.3	
LC0004	-	-	-	-	
LC0005	458	18	96.6	-2.62	H
LC0006	474	14	100	-0.02	
LC0007	476.8	14.3	101	0.43	
LC0008	477	10	101	0.47	
LC0009	470	8	99.1	-0.67	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	445.25	2	93.9	-4.69	H
LC0013	-	-	-	-	
LC0014	466.4	1	98.4	-1.25	
LC0015	477	3.38	101	0.47	
LC0016	480	1	101	0.95	
LC0017	472	13	99.5	-0.35	
LC0018	500	50	105	4.2	H
LC0019	478	17	101	0.63	
LC0020	472	15	99.5	-0.35	
LC0021	458	46	96.6	-2.62	H
LC0022	473.5	4.7	99.9	-0.1	
LC0023	477	12	101	0.47	
LC0024	475	3.8	100	0.14	
LC0025	475	14	100	0.14	
LC0026	473	2	99.8	-0.18	
LC0027	479	1.35	101	0.79	
LC0028	471	0.01	99.3	-0.51	
LC0029	397	1.87	83.7	-12.5	H
LC0030	474	23	100	-0.02	
LC0031	473	3	99.8	-0.18	
LC0032	474	5	100	-0.02	
LC0033	493	19	104	3.06	H
LC0034	471	14	99.3	-0.51	
LC0035	478	8.1	101	0.63	
LC0036	463	46	97.7	-1.81	
LC0037	-	-	-	-	
LC0038	481	11.8	101	1.11	
LC0039	477	10	101	0.47	
LC0040	473	6	99.8	-0.18	
LC0041	478	4	101	0.63	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: El. conductivity (25°C)

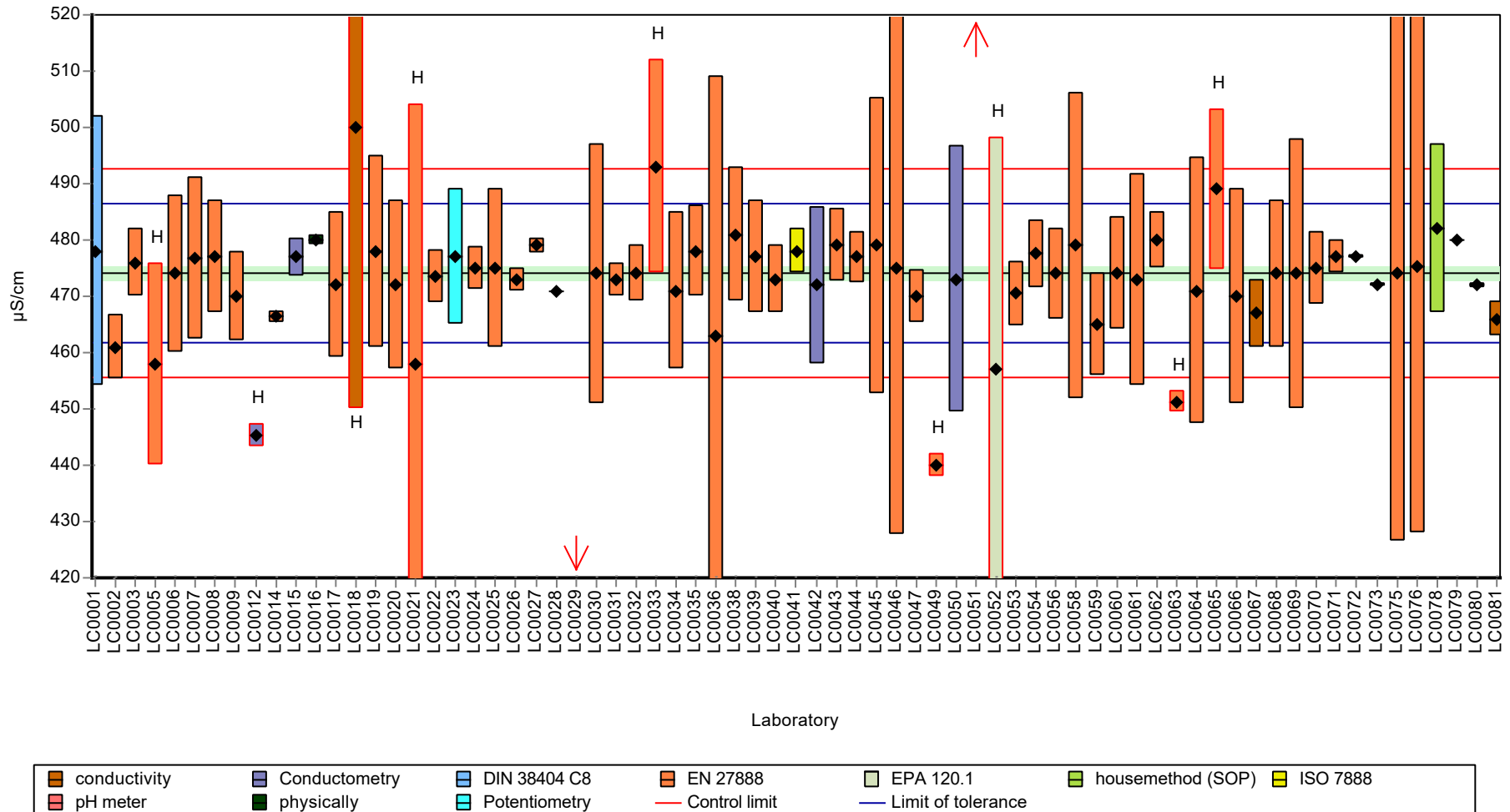
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	472	14	99.5	-0.35	
LC0043	479	6.47	101	0.79	
LC0044	477	4.51	101	0.47	
LC0045	479	26.3	101	0.79	
LC0046	475	47.5	100	0.14	
LC0047	470	4.7	99.1	-0.67	
LC0048	-	-	-	-	
LC0049	440	2	92.8	-5.54	H
LC0050	473	23.65	99.8	-0.18	
LC0051	614	31	129	22.7	H
LC0052	457	41.3	96.4	-2.78	H
LC0053	470.5	5.65	99.2	-0.59	
LC0054	477.5	5.921	101	0.55	
LC0055	-	-	-	-	
LC0056	474	8	100	-0.02	
LC0057	-	-	-	-	
LC0058	479	27.1	101	0.79	
LC0059	465	9	98.1	-1.48	
LC0060	474	10	100	-0.02	
LC0061	473	18.9	99.8	-0.18	
LC0062	480	5	101	0.95	
LC0063	451.3	2	95.2	-3.7	H
LC0064	471	23.7	99.3	-0.51	
LC0065	489	14.2	103	2.41	H
LC0066	470	19	99.1	-0.67	
LC0067	467	6	98.5	-1.16	
LC0068	474	13	100	-0.02	
LC0069	474	24	100	-0.02	
LC0070	475	6.41	100	0.14	
LC0071	477	2.95	101	0.47	
LC0072	477	0.215	101	0.47	
LC0073	472	0.262	99.5	-0.35	
LC0074	-	-	-	-	
LC0075	474	47.4	100	-0.02	
LC0076	475.35	47.54	100	0.2	
LC0077	-	-	-	-	
LC0078	482	15	102	1.28	
LC0079	480	0.015	101	0.95	
LC0080	472	0.5	99.5	-0.35	
LC0081	466	3	98.3	-1.32	
LC0082	-	-	-	-	

Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	474 ± 7.52	474 ± 1.7	µS/cm
Minimum	397	461	µS/cm
Maximum	614	482	µS/cm
Standard deviation	21.1	4.38	µS/cm
rel. standard deviation	4.46	0.923	%
n	71	60	-

Graphical presentation of results

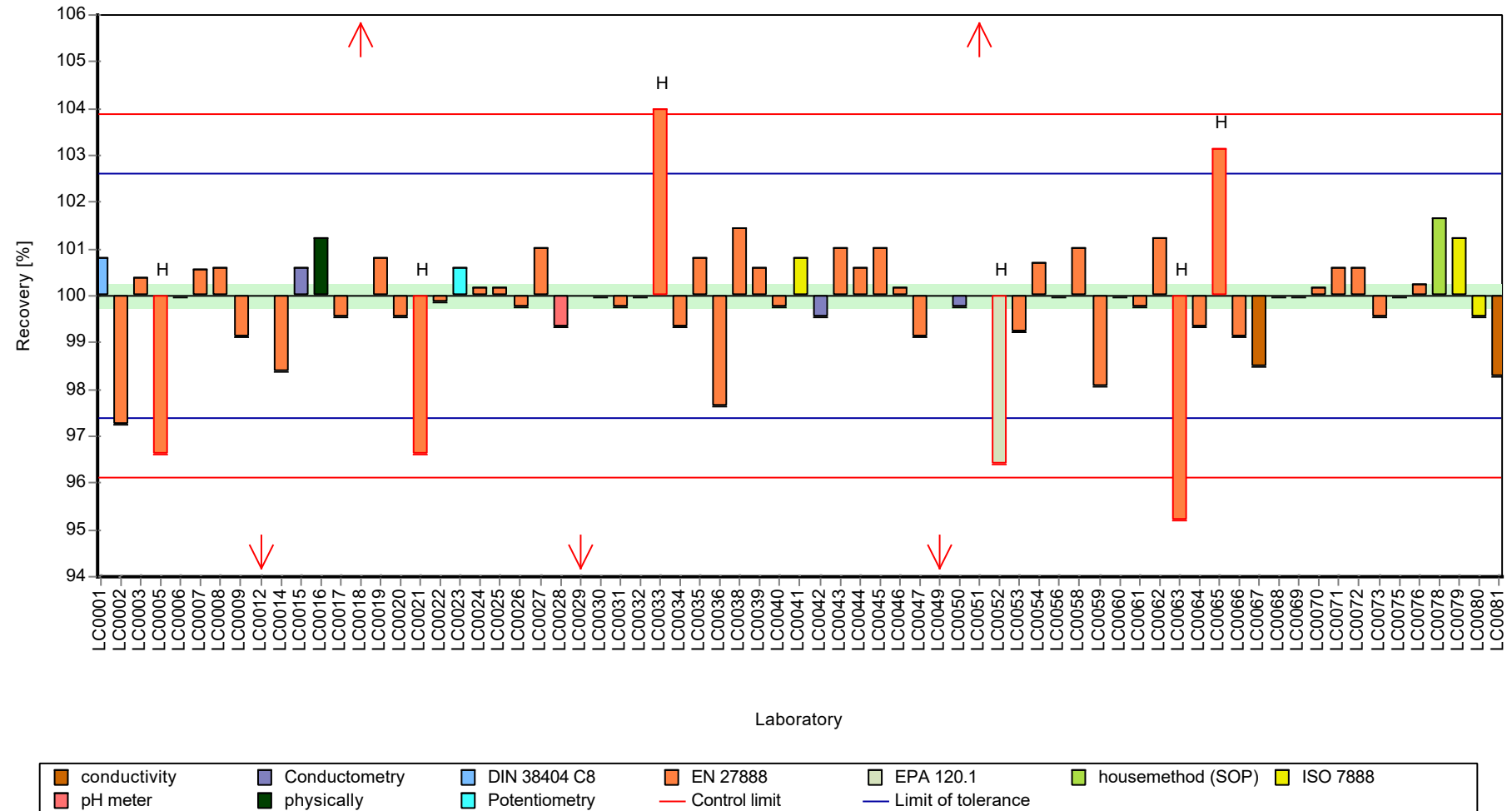
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: El. conductivity (25°C)

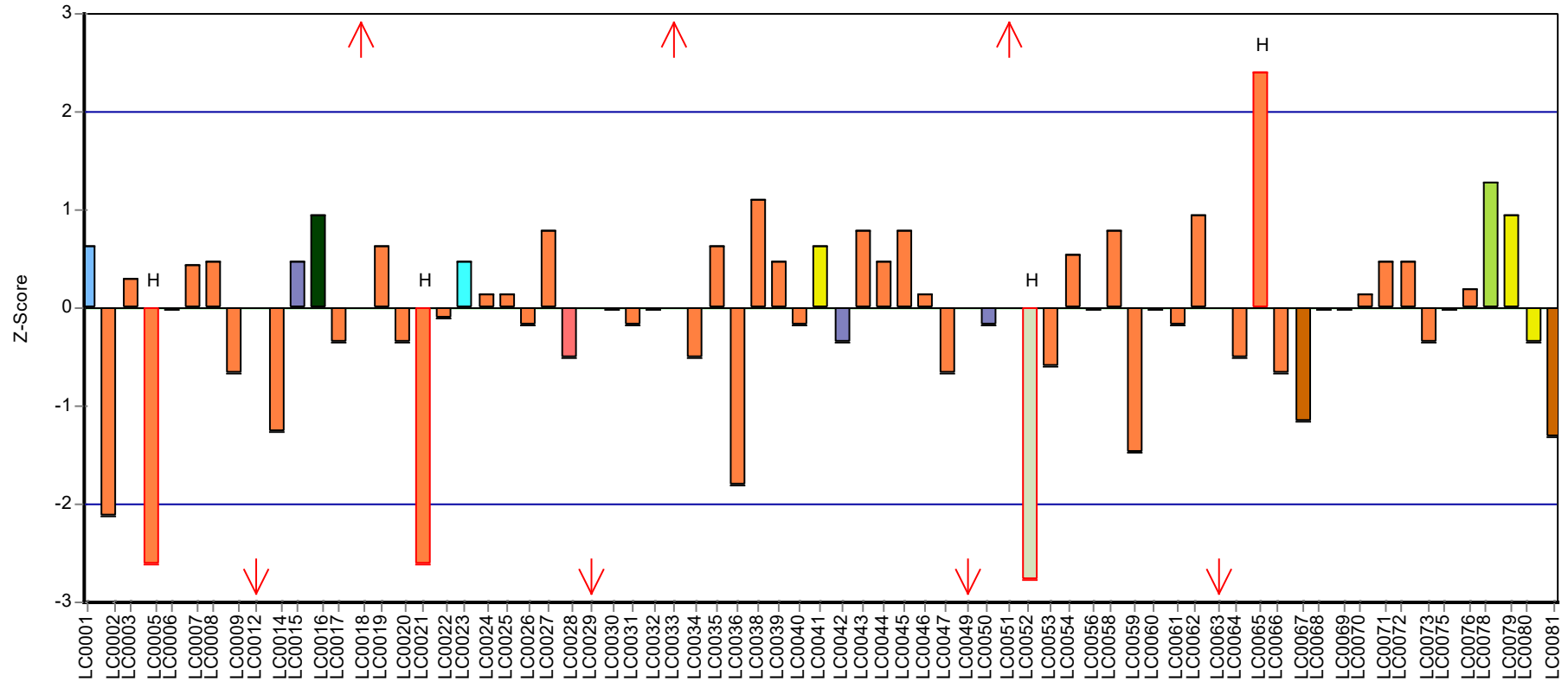
Recovery rate



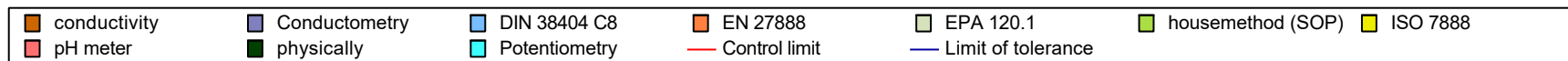
Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: El. conductivity (25°C)

Z-score



Laboratory



Parameter oriented report

N160 A

Hydrogen carbonate

Unit	mg/l
Assigned value ± U (k=2)	483 ± 1.82
Criterion	9.66 (2 %)
Minimum - Maximum	469 - 496
Control test value ± U (k=2)	473.0 ± 18.9

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	469.25	23.46	97.2	-1.42	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	485	15	100	0.21	
LC0006	485	23	100	0.21	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	481	25	99.6	-0.2	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	482.77	2.9	100	-0.02	
LC0015	481	6.95	99.6	-0.2	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	477	60	98.8	-0.62	
LC0019	496	50	103	1.35	
LC0020	-	-	-	-	
LC0021	486.4	49	101	0.36	
LC0022	-	-	-	-	
LC0023	486.6	9.7	101	0.38	
LC0024	-	-	-	-	
LC0025	483	24	100	0.01	
LC0026	485.6	6.1	101	0.28	
LC0027	435	5.4	90.1	-4.96	H
LC0028	404.74	7.48	83.8	-8.1	H
LC0029	-	-	-	-	
LC0030	485.7	20	101	0.28	
LC0031	489	6	101	0.63	
LC0032	476	42.8	98.6	-0.72	
LC0033	480	11	99.4	-0.3	
LC0034	483	15	100	0.01	
LC0035	488.7	26.2	101	0.6	
LC0036	482	48	99.8	-0.1	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	484.5	48	100	0.16	
LC0040	487	0.58	101	0.42	
LC0041	482	18	99.8	-0.1	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Hydrogen carbonate

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	482	10	99.8	-0.1	
LC0043	-	-	-	-	
LC0044	485.02	10	100	0.21	
LC0045	498	24.85	103	1.56	H
LC0046	476	47.6	98.6	-0.72	
LC0047	-	-	-	-	
LC0048	-	-	-	-	
LC0049	-	-	-	-	
LC0050	-	-	-	-	
LC0051	465	47	96.3	-1.86	H
LC0052	483	61	100	0.01	
LC0053	471.2	4.71	97.6	-1.22	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	484	6.7	100	0.11	
LC0057	-	-	-	-	
LC0058	486.1	48.6	101	0.33	
LC0059	487	39	101	0.42	
LC0060	484	10	100	0.11	
LC0061	481.4	72.21	99.7	-0.16	
LC0062	-	-	-	-	
LC0063	479.9	0.04	99.4	-0.32	
LC0064	-	-	-	-	
LC0065	-	-	-	-	
LC0066	479.9	31.8	99.4	-0.32	
LC0067	459.4	29.2	95.1	-2.44	H
LC0068	494	25	102	1.14	
LC0069	-	-	-	-	
LC0070	-	-	-	-	
LC0071	-	-	-	-	
LC0072	-	-	-	-	
LC0073	484	9.69	100	0.11	
LC0074	-	-	-	-	
LC0075	488.13	21.4	101	0.54	
LC0076	-	-	-	-	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	441	44.1	91.3	-4.34	H
LC0080	469.85	47.29	97.3	-1.36	
LC0081	466	4.63	96.5	-1.75	H
LC0082	-	-	-	-	

Characteristics of parameter

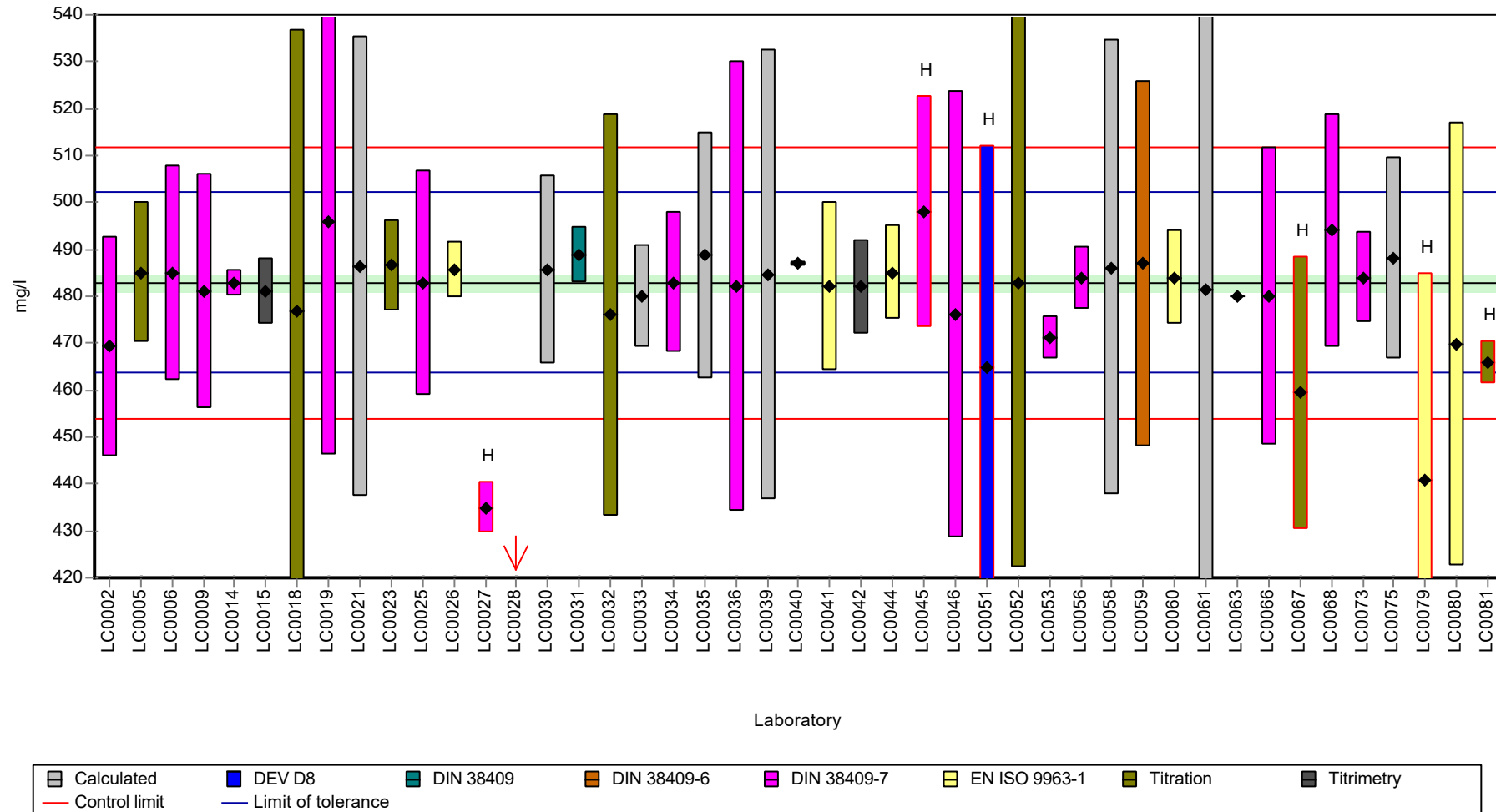
	all results	without outliers	Unit
Mean ± CI (99%)	478 ± 7.3	483 ± 2.72	mg/l
Minimum	405	469	mg/l
Maximum	498	496	mg/l
Standard deviation	16.3	5.6	mg/l
rel. standard deviation	3.41	1.16	%
n	45	38	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Hydrogen carbonate

Graphical presentation of results

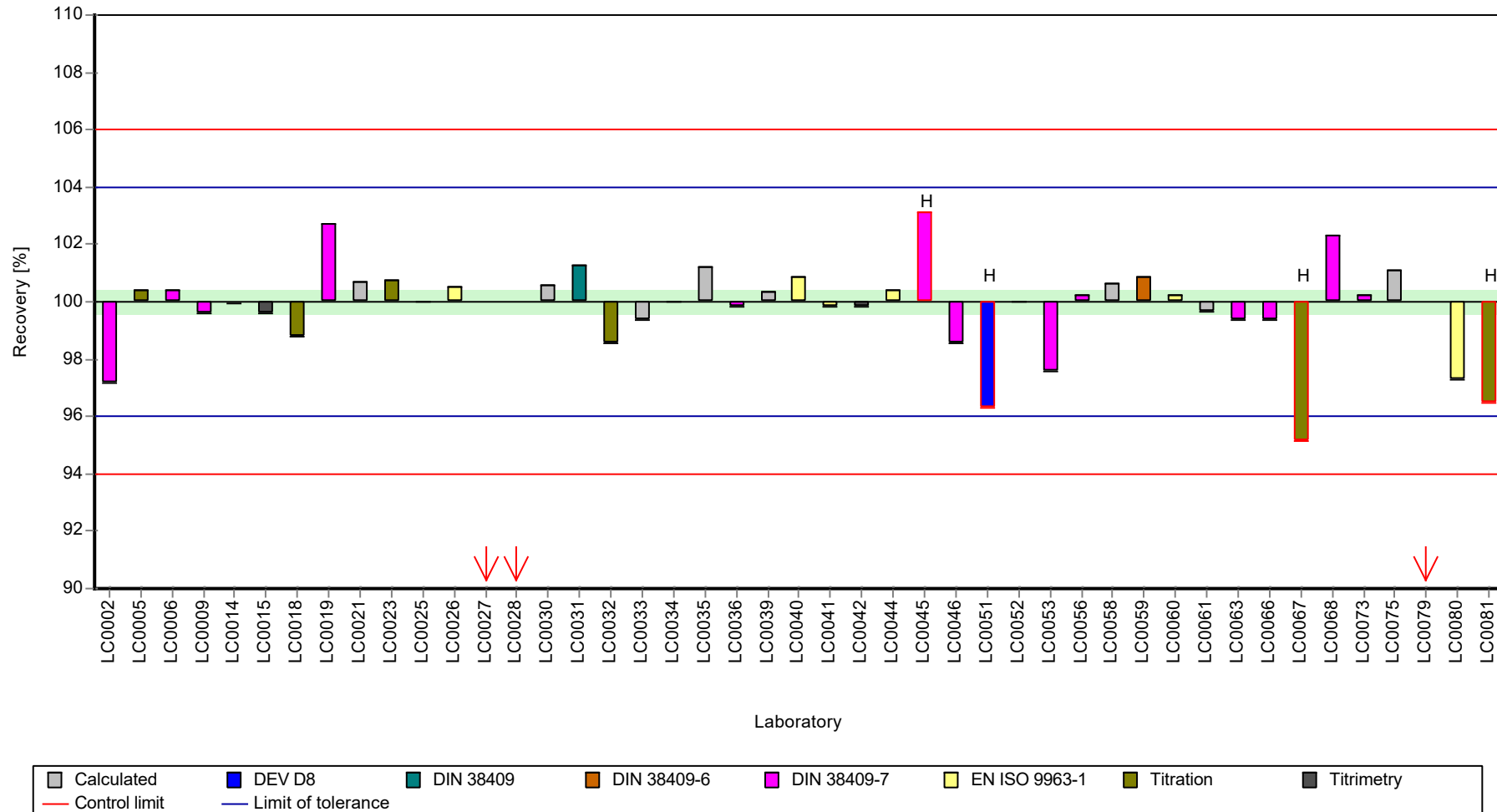
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Hydrogen carbonate

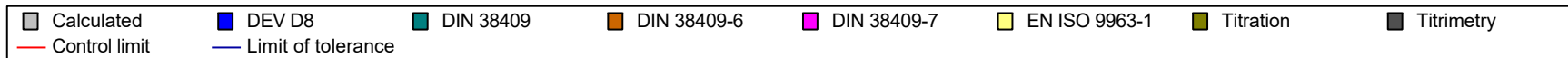
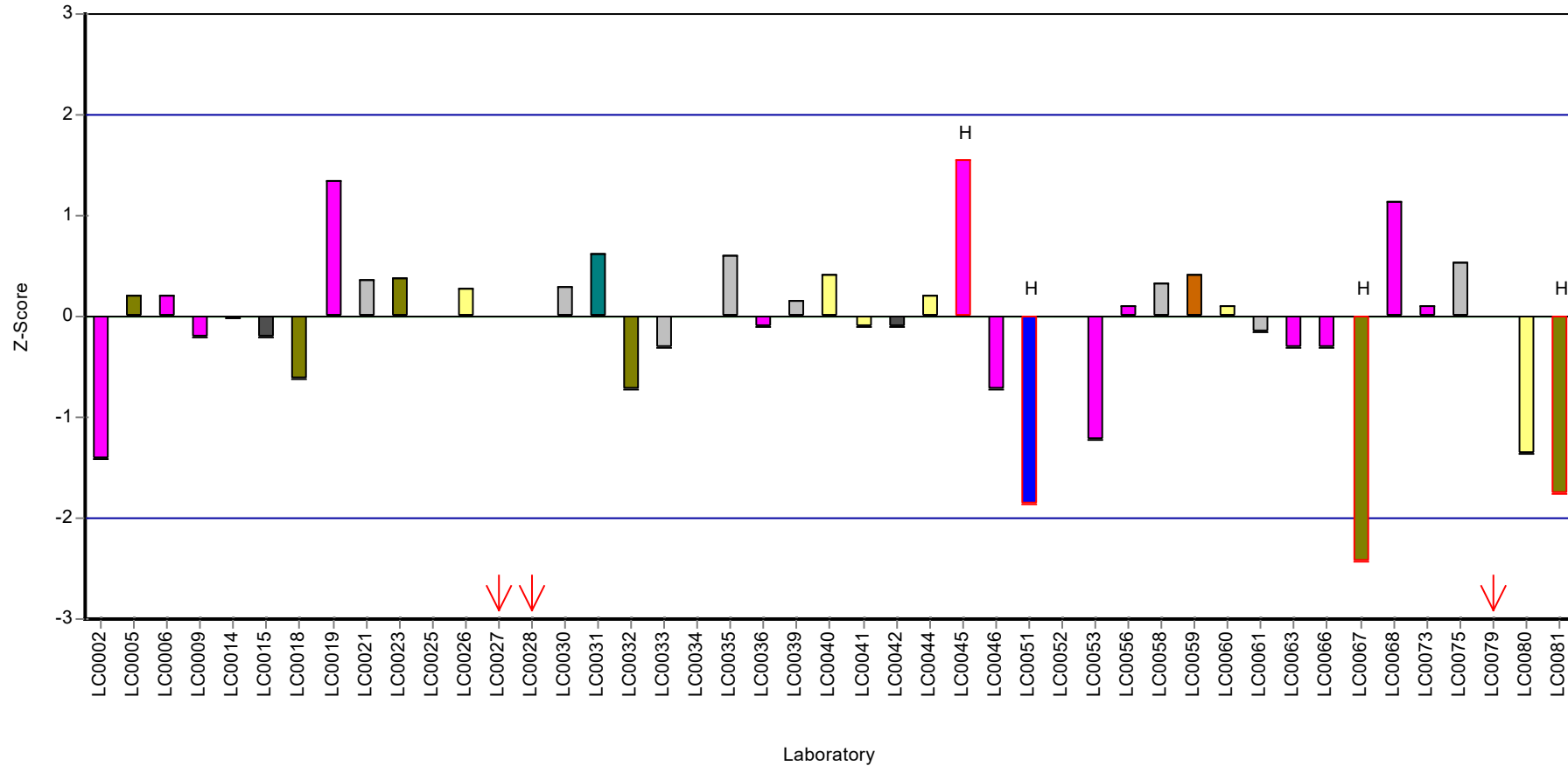
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Hydrogen carbonate

Z-score



Parameter oriented report

N160 B

Hydrogen carbonate

Unit	mg/l
Assigned value ± U (k=2)	213 ± 1.3
Criterion	4.26 (2 %)
Minimum - Maximum	202 - 220
Control test value ± U (k=2)	206.0 ± 8.25

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	207.29	10.36	97.3	-1.35	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	215	6.45	101	0.46	
LC0006	219	10.5	103	1.4	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	212	11	99.5	-0.24	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	215.82	1.3	101	0.65	
LC0015	211	3.05	99	-0.48	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	213	30	100	-0.01	
LC0019	219	25	103	1.4	
LC0020	-	-	-	-	
LC0021	212.8	21	99.9	-0.05	
LC0022	-	-	-	-	
LC0023	215	4.3	101	0.46	
LC0024	-	-	-	-	
LC0025	211	11	99	-0.48	
LC0026	215.4	6.1	101	0.56	
LC0027	209	0.6	98.1	-0.95	
LC0028	2.79	0.11	1.3	-49.3	H
LC0029	-	-	-	-	
LC0030	212.3	10	99.7	-0.17	
LC0031	216	3	101	0.7	
LC0032	209	18.8	98.1	-0.95	
LC0033	210	5	98.6	-0.71	
LC0034	218	7	102	1.17	
LC0035	213.6	11.43	100	0.13	
LC0036	214	21	100	0.23	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	214.2	21	101	0.27	
LC0040	215	8	101	0.46	
LC0041	215	9	101	0.46	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Hydrogen carbonate

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	215	10	101	0.46	
LC0043	-	-	-	-	
LC0044	212.31	10	99.7	-0.17	
LC0045	219	10.95	103	1.4	
LC0046	211	21.1	99	-0.48	
LC0047	-	-	-	-	
LC0048	-	-	-	-	
LC0049	-	-	-	-	
LC0050	-	-	-	-	
LC0051	204	20	95.8	-2.12	
LC0052	227	32	107	3.28	H
LC0053	206	2.06	96.7	-1.65	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	220	6.7	103	1.64	
LC0057	-	-	-	-	
LC0058	213.7	21.4	100	0.16	
LC0059	215	17	101	0.46	
LC0060	211	5	99	-0.48	
LC0061	216.6	32.49	102	0.84	
LC0062	-	-	-	-	
LC0063	210.8	0.02	99	-0.52	
LC0064	-	-	-	-	
LC0065	-	-	-	-	
LC0066	208.4	14.9	97.8	-1.09	
LC0067	202.2	14	94.9	-2.54	
LC0068	220	11	103	1.64	
LC0069	-	-	-	-	
LC0070	-	-	-	-	
LC0071	-	-	-	-	
LC0072	-	-	-	-	
LC0073	212	4.23	99.5	-0.24	
LC0074	-	-	-	-	
LC0075	215.34	6.45	101	0.54	
LC0076	-	-	-	-	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	200.1	20.01	93.9	-3.04	H
LC0080	216.62	4.577	102	0.84	
LC0081	206	3.33	96.7	-1.65	
LC0082	-	-	-	-	

Characteristics of parameter

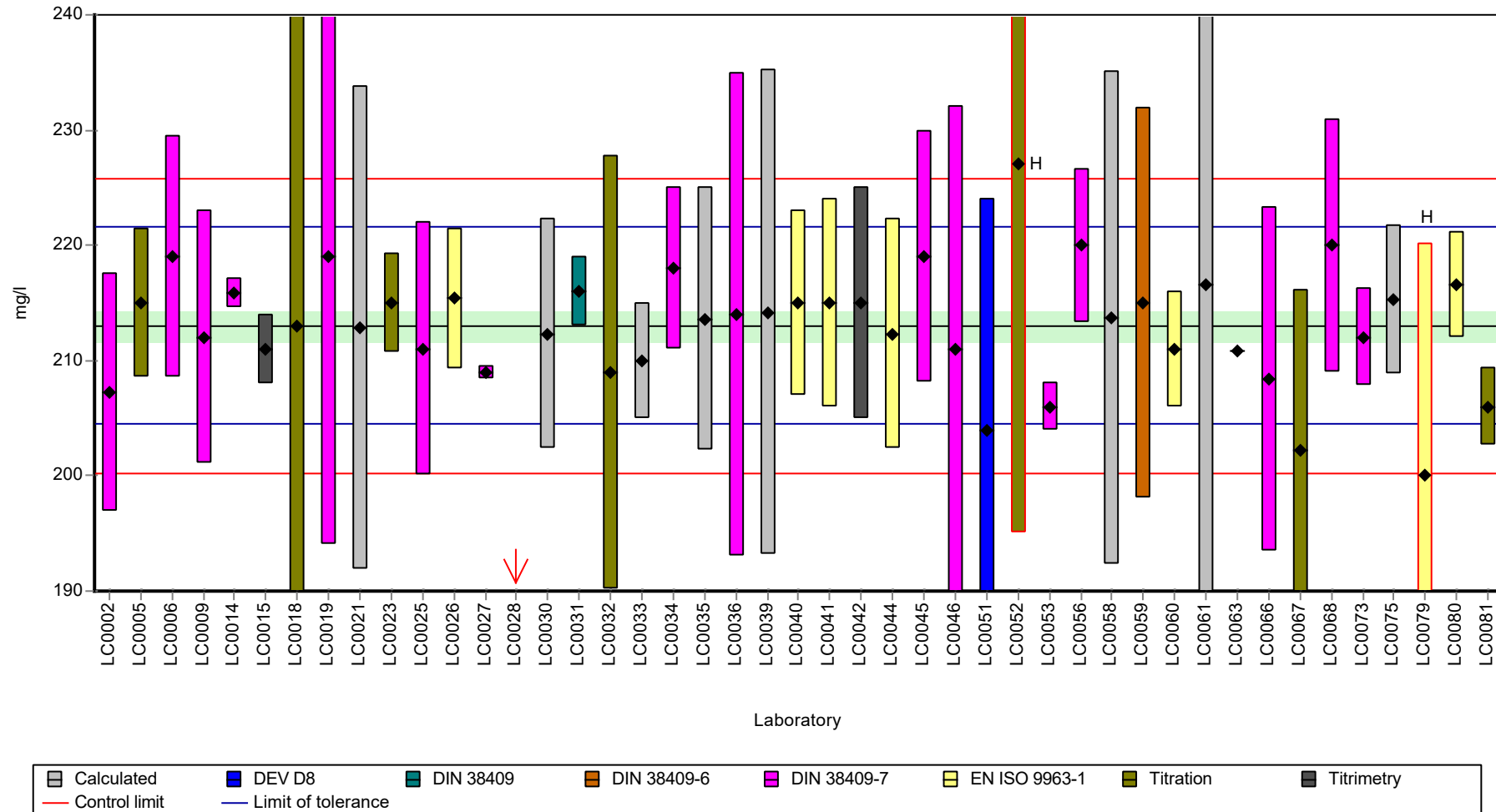
	all results	without outliers	Unit
Mean ± CI (99%)	208 ± 14.2	213 ± 1.95	mg/l
Minimum	2.79	202	mg/l
Maximum	227	220	mg/l
Standard deviation	31.7	4.21	mg/l
rel. standard deviation	15.2	1.98	%
n	45	42	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Hydrogen carbonate

Graphical presentation of results

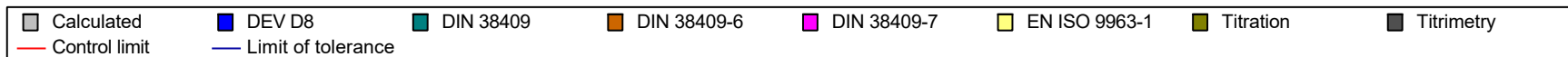
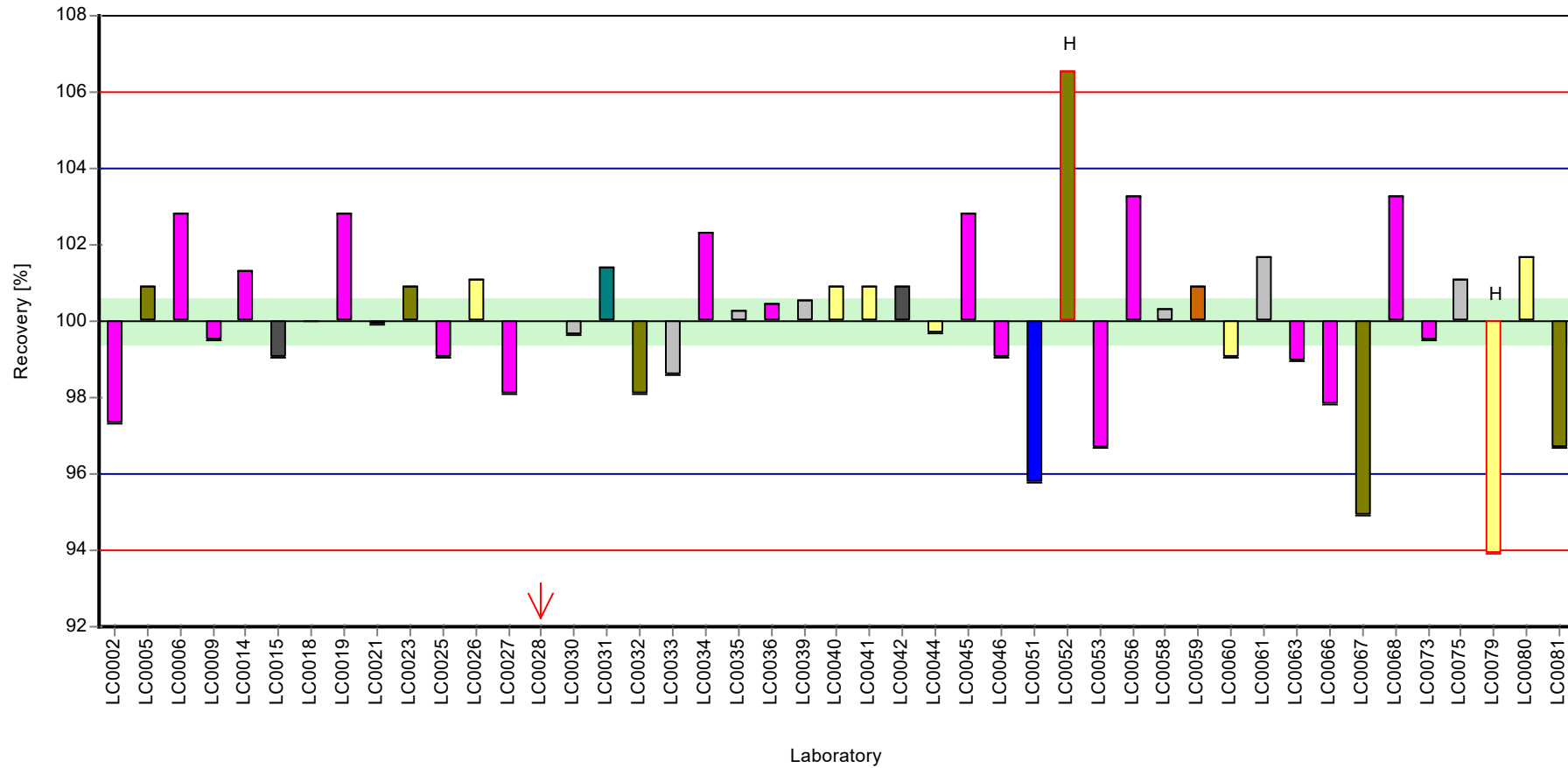
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Hydrogen carbonate

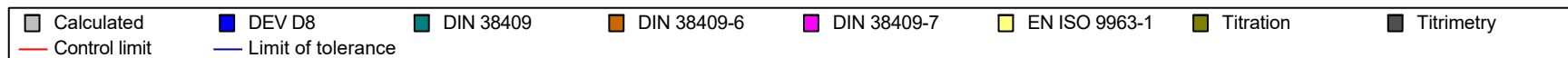
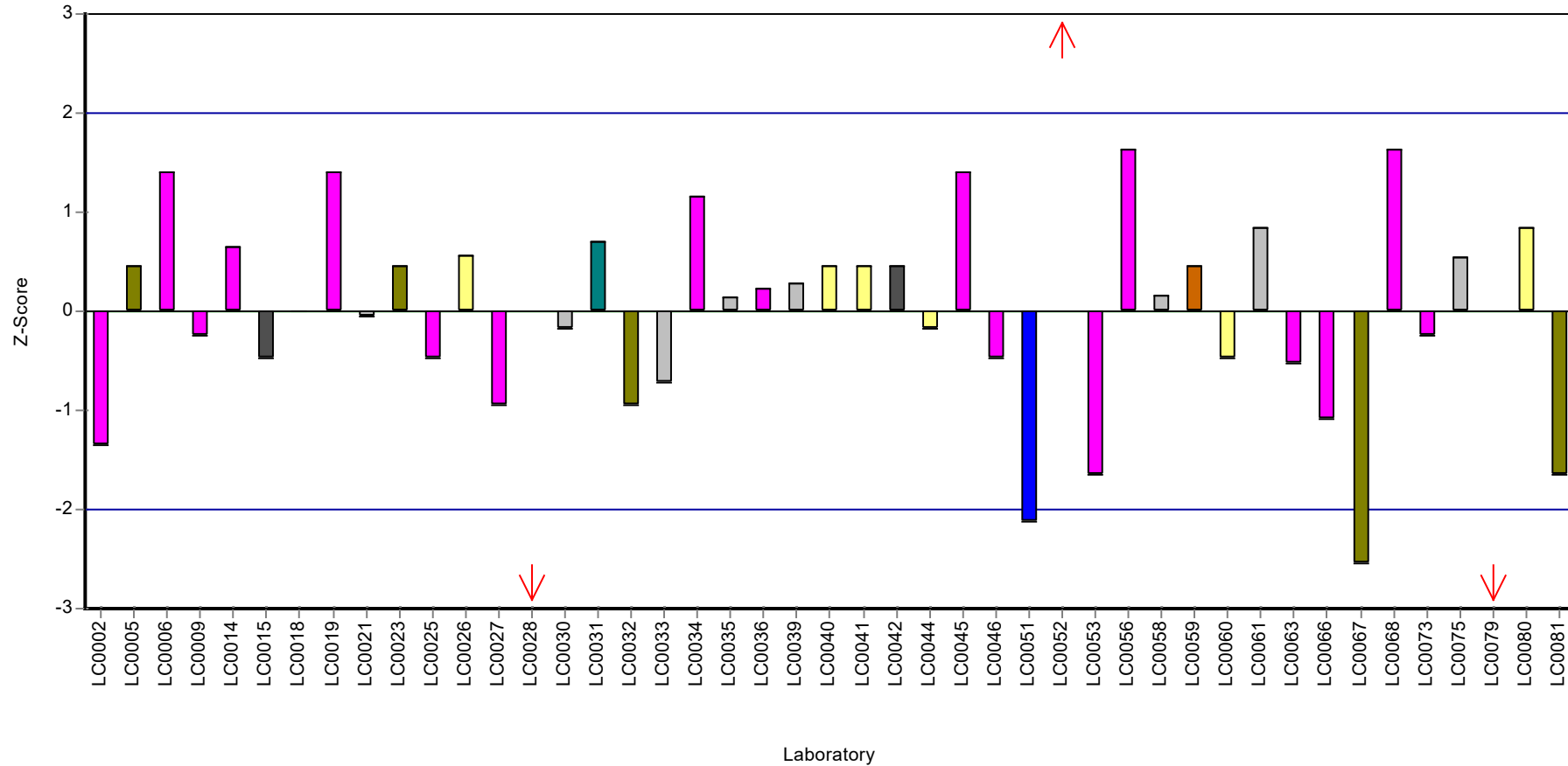
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Hydrogen carbonate

Z-score



Parameter oriented report

N160 A

Magnesium

Unit	mg/l
Assigned value ± U (k=2)	35.3 ± 0.274
Criterion	1.41 (4 %)
Minimum - Maximum	32.6 - 38
Control test value ± U (k=2)	34.90 ± 3.49

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	36.4	0.99	103	0.81	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	36.3	1.65	103	0.74	
LC0006	33.9	2.8	96.2	-0.96	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	38	1.9	108	1.95	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	38.9	2.5	110	2.59	H
LC0013	-	-	-	-	
LC0014	35.93	1.9	102	0.48	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	35.9	3.9	102	0.46	
LC0018	35.8	2.9	102	0.39	
LC0019	34.8	3.7	98.7	-0.32	
LC0020	36.5	2.4	104	0.88	
LC0021	35.131	7.026	99.7	-0.09	
LC0022	-	-	-	-	
LC0023	34.4	0.3	97.6	-0.61	
LC0024	36.9	2.9	105	1.17	
LC0025	35.4	2.2	100	0.1	
LC0026	34.12	0.2	96.8	-0.8	
LC0027	-	-	-	-	
LC0028	34	0.11	96.4	-0.89	
LC0029	-	-	-	-	
LC0030	35.3	4.5	100	0.03	
LC0031	35.7	1.6	101	0.32	
LC0032	32.8	3.28	93	-1.74	
LC0033	-	-	-	-	
LC0034	35.2	3.5	99.8	-0.04	
LC0035	34.569	4.255	98.1	-0.49	
LC0036	35.5	3.5	101	0.17	
LC0037	-	-	-	-	
LC0038	36.7	2.26	104	1.03	
LC0039	35	7	99.3	-0.18	
LC0040	35	0.36	99.3	-0.18	
LC0041	35.8	3.9	102	0.39	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Magnesium

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	36.45	0.4	103	0.85	
LC0043	-	-	-	-	
LC0044	35.199	3.4	99.8	-0.04	
LC0045	34.75	3.5	98.6	-0.36	
LC0046	35.1	3.51	99.6	-0.11	
LC0047	37.2	1.3	106	1.38	
LC0048	-	-	-	-	
LC0049	35.31	1.77	100	0.04	
LC0050	34.88	1.8	98.9	-0.27	
LC0051	36.3	7	103	0.74	
LC0052	35.3	2.8	100	0.03	
LC0053	35.03	3.02	99.4	-0.16	
LC0054	33.37	3.811	94.7	-1.34	
LC0055	34.521	0.74	97.9	-0.52	
LC0056	32.6	1	92.5	-1.88	
LC0057	35.6	1.8	101	0.24	
LC0058	35	4.63	99.3	-0.18	
LC0059	36.3	1.5	103	0.74	
LC0060	34.9	1	99	-0.25	
LC0061	34.59	3.459	98.1	-0.47	
LC0062	33.5	3.4	95	-1.24	
LC0063	35.2	0.3	99.8	-0.04	
LC0064	-	-	-	-	
LC0065	35.83	2.6	102	0.41	
LC0066	34.8	2.2	98.7	-0.32	
LC0067	34.4	3.4	97.6	-0.61	
LC0068	34.6	1.4	98.1	-0.46	
LC0069	35.5	5.2	101	0.17	
LC0070	-	-	-	-	
LC0071	35.518	1.51	101	0.19	
LC0072	37	0.178	105	1.24	
LC0073	33.8	0.18	95.9	-1.03	
LC0074	-	-	-	-	
LC0075	35.83	2.62	102	0.41	
LC0076	36.005	0.36	102	0.53	
LC0077	35.4	2.814	100	0.1	
LC0078	-	-	-	-	
LC0079	35.5	5.33	101	0.17	
LC0080	34.393	0.3	97.6	-0.61	
LC0081	38.18	0.53	108	2.08	H
LC0082	-	-	-	-	

Characteristics of parameter

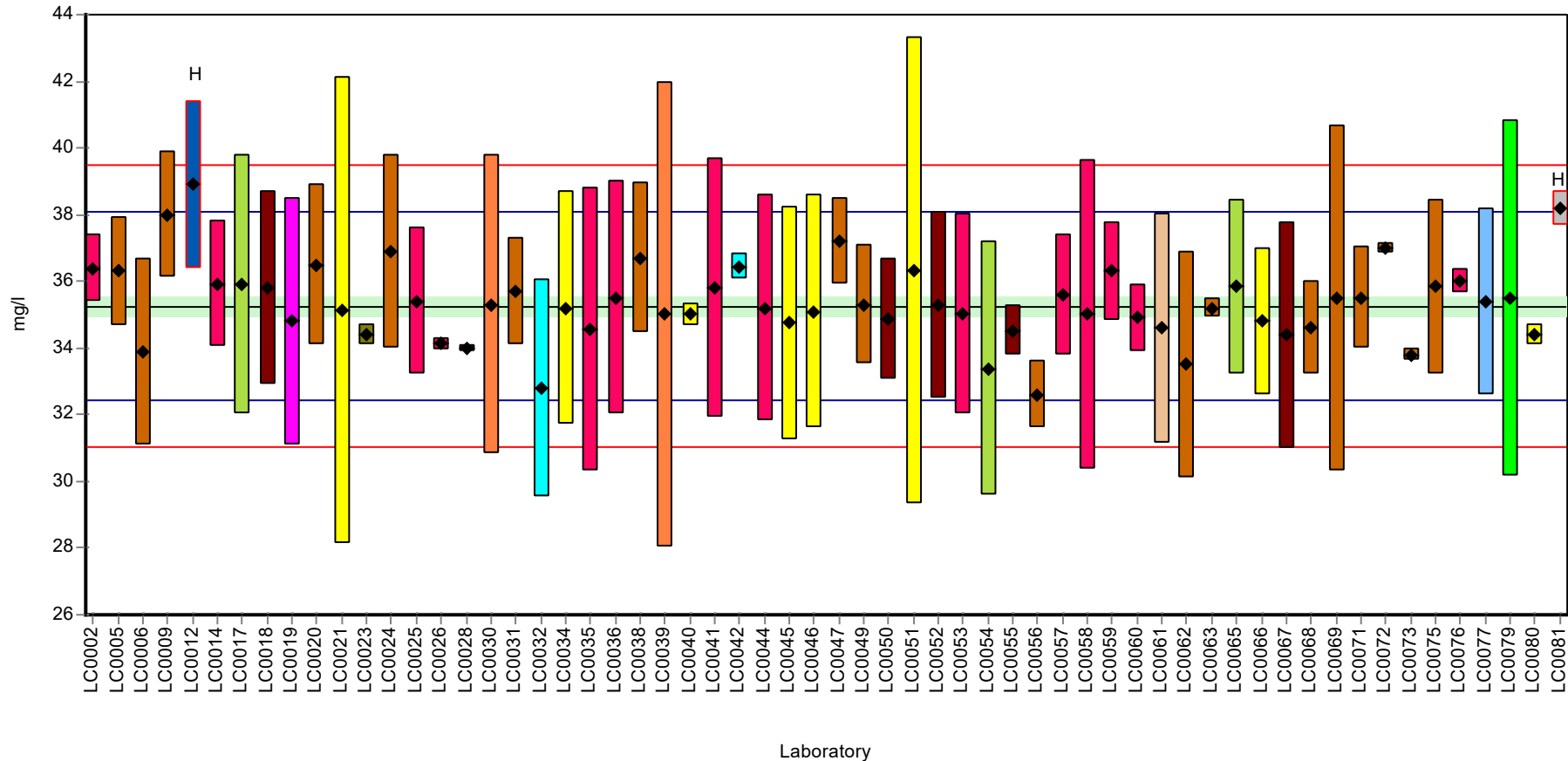
	all results	without outliers	Unit
Mean ± CI (99%)	35.4 ± 0.459	35.3 ± 0.41	mg/l
Minimum	32.6	32.6	mg/l
Maximum	38.9	38	mg/l
Standard deviation	1.19	1.04	mg/l
rel. standard deviation	3.35	2.96	%
n	60	58	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Magnesium

Graphical presentation of results

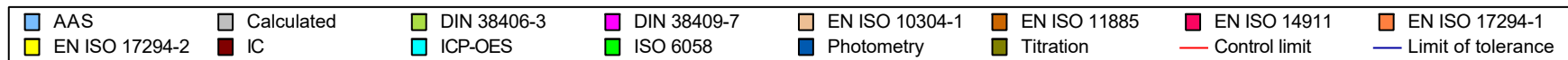
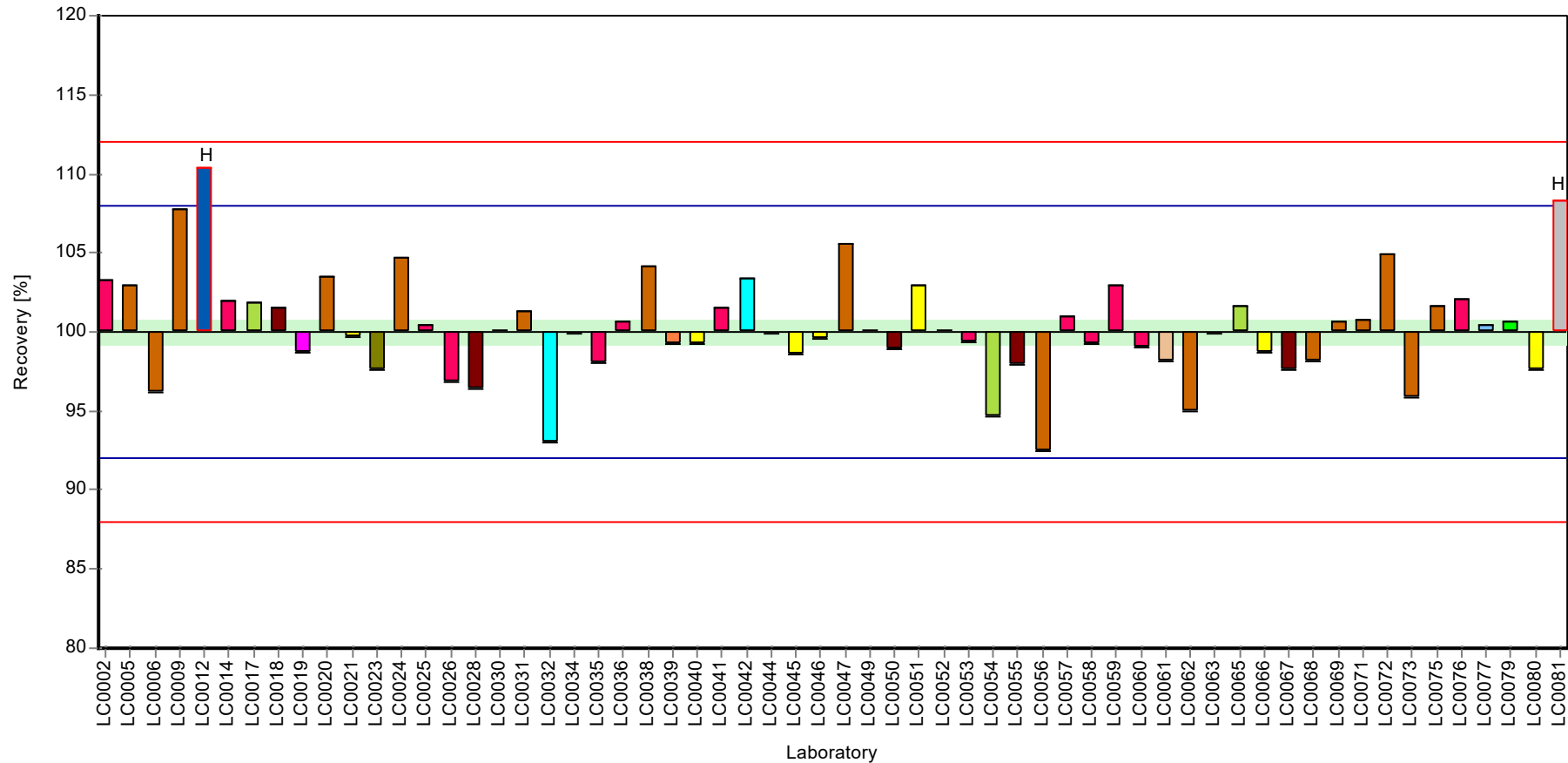
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Magnesium

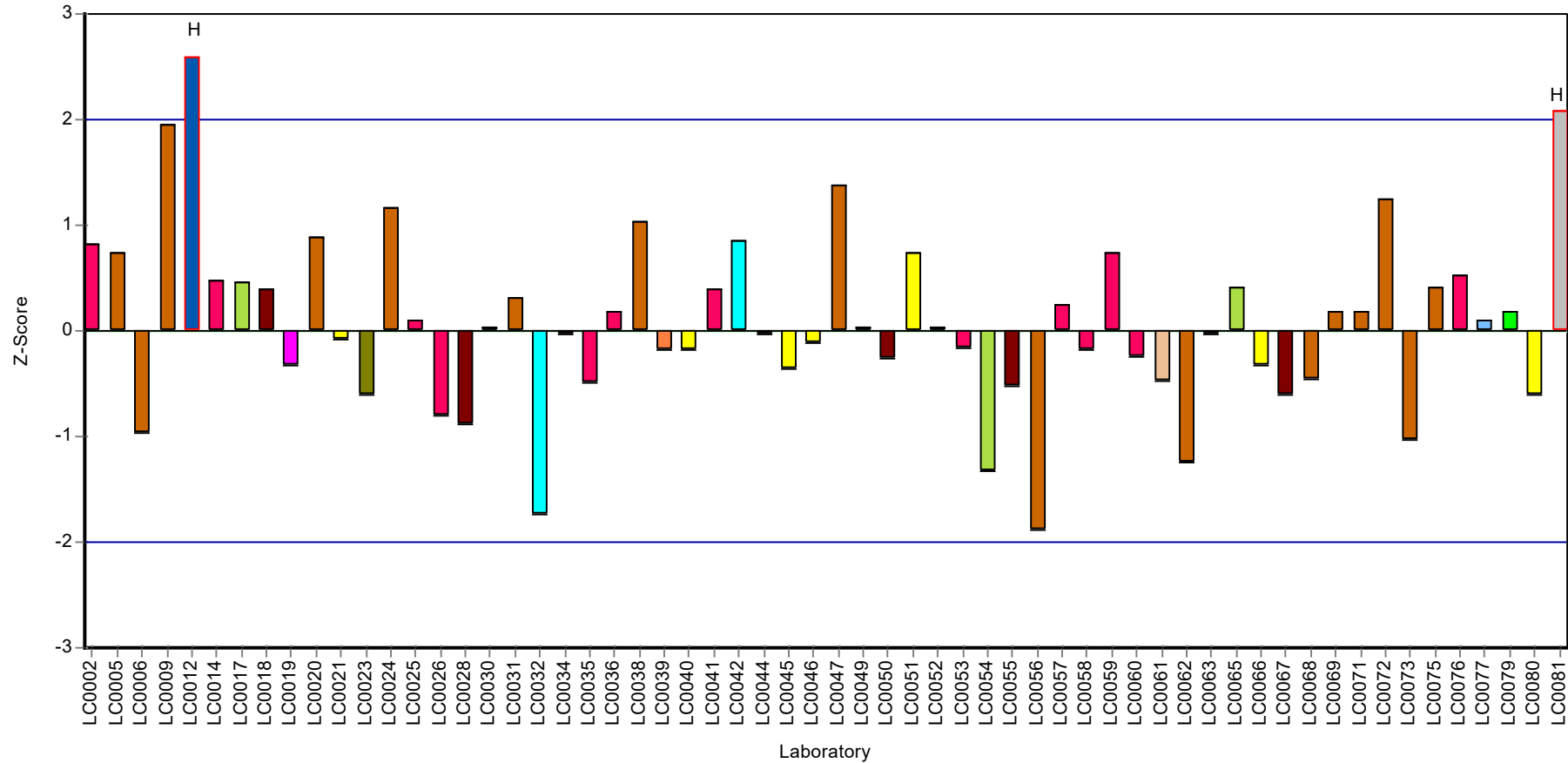
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Magnesium

Z-score



Parameter oriented report

N160 B

Magnesium

Unit	mg/l
Assigned value ± U (k=2)	14.9 ± 0.135
Criterion	0.598 (4 %)
Minimum - Maximum	14 - 16.5
Control test value ± U (k=2)	14.90 ± 1.49

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	17.22	0.47	115	3.8	H
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	15.3	0.7	102	0.58	
LC0006	14	1.15	93.6	-1.59	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	14.9	0.8	99.7	-0.08	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	15.68	2.5	105	1.22	
LC0013	-	-	-	-	
LC0014	15.31	0.8	102	0.6	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	15.2	1.6	102	0.42	
LC0018	15.3	1.2	102	0.58	
LC0019	14.8	1.6	99	-0.25	
LC0020	15.7	1	105	1.25	
LC0021	14.911	2.982	99.7	-0.07	
LC0022	-	-	-	-	
LC0023	14.9	0.1	99.7	-0.08	
LC0024	15.9	1.3	106	1.59	
LC0025	14.4	0.9	96.3	-0.92	
LC0026	14.28	0.2	95.5	-1.12	
LC0027	-	-	-	-	
LC0028	14.29	0.19	95.6	-1.1	
LC0029	-	-	-	-	
LC0030	15.4	2.25	103	0.75	
LC0031	14.7	0.7	98.3	-0.42	
LC0032	14.3	1.43	95.7	-1.09	
LC0033	-	-	-	-	
LC0034	15	1.5	100	0.08	
LC0035	14.655	1.804	98	-0.49	
LC0036	15.4	1.5	103	0.75	
LC0037	-	-	-	-	
LC0038	15.2	0.93	102	0.42	
LC0039	15	3	100	0.08	
LC0040	15.9	0.3	106	1.59	
LC0041	15.2	1.7	102	0.42	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Magnesium

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	15.75	0.4	105	1.34	
LC0043	-	-	-	-	
LC0044	14.816	1.4	99.1	-0.22	
LC0045	14.8	1.48	99	-0.25	
LC0046	15	1.5	100	0.08	
LC0047	14.9	0.5	99.7	-0.08	
LC0048	-	-	-	-	
LC0049	14.93	0.747	99.9	-0.03	
LC0050	14.77	0.31	98.8	-0.3	
LC0051	15.8	3	106	1.42	
LC0052	14.9	1.2	99.7	-0.08	
LC0053	14.84	1.28	99.3	-0.18	
LC0054	13.98	1.59	93.5	-1.62	
LC0055	14.535	0.34	97.2	-0.69	
LC0056	14	1	93.6	-1.59	
LC0057	14.5	0.8	97	-0.75	
LC0058	15	1.98	100	0.08	
LC0059	15.1	1.2	101	0.25	
LC0060	14.9	0.3	99.7	-0.08	
LC0061	14.53	1.453	97.2	-0.7	
LC0062	15.3	1.5	102	0.58	
LC0063	14.5	0.3	97	-0.75	
LC0064	-	-	-	-	
LC0065	15.31	1.1	102	0.6	
LC0066	14.9	1	99.7	-0.08	
LC0067	14.5	1.4	97	-0.75	
LC0068	14.6	0.61	97.7	-0.58	
LC0069	15.2	2.2	102	0.42	
LC0070	-	-	-	-	
LC0071	15.005	0.703	100	0.09	
LC0072	14.7	0.0706	98.3	-0.42	
LC0073	14.5	0.204	97	-0.75	
LC0074	-	-	-	-	
LC0075	15.6	1.14	104	1.09	
LC0076	14.513	0.15	97.1	-0.73	
LC0077	15.3	1.216	102	0.58	
LC0078	-	-	-	-	
LC0079	14.16	2.12	94.7	-1.32	
LC0080	14.741	0.506	98.6	-0.35	
LC0081	16.54	0.23	111	2.66	
LC0082	-	-	-	-	

Characteristics of parameter

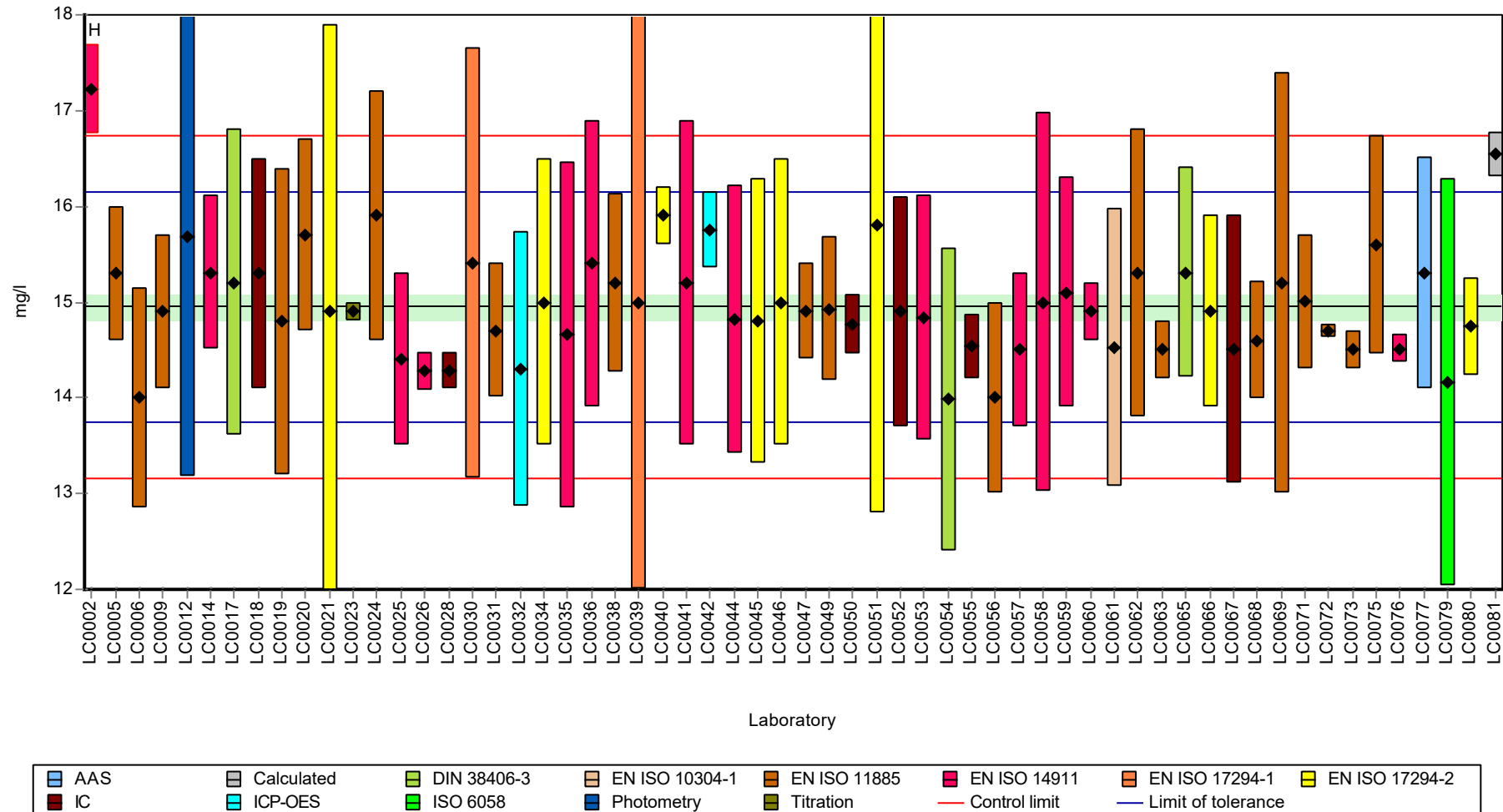
	all results	without outliers	Unit
Mean ± CI (99%)	15 ± 0.229	14.9 ± 0.202	mg/l
Minimum	14	14	mg/l
Maximum	17.2	16.5	mg/l
Standard deviation	0.59	0.517	mg/l
rel. standard deviation	3.94	3.46	%
n	60	59	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Magnesium

Graphical presentation of results

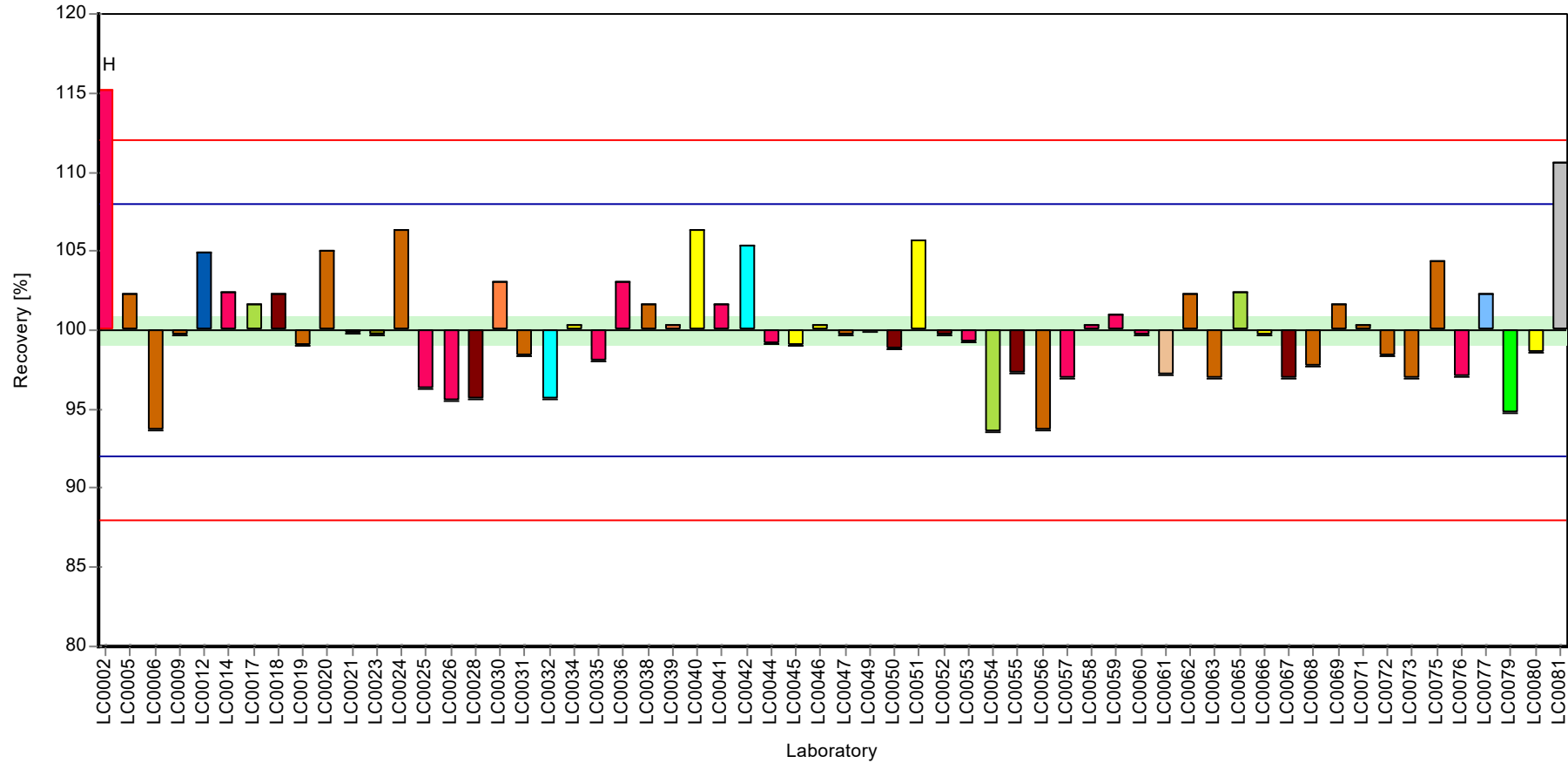
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Magnesium

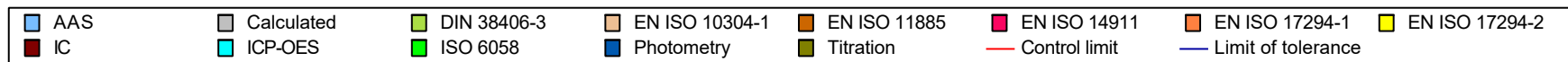
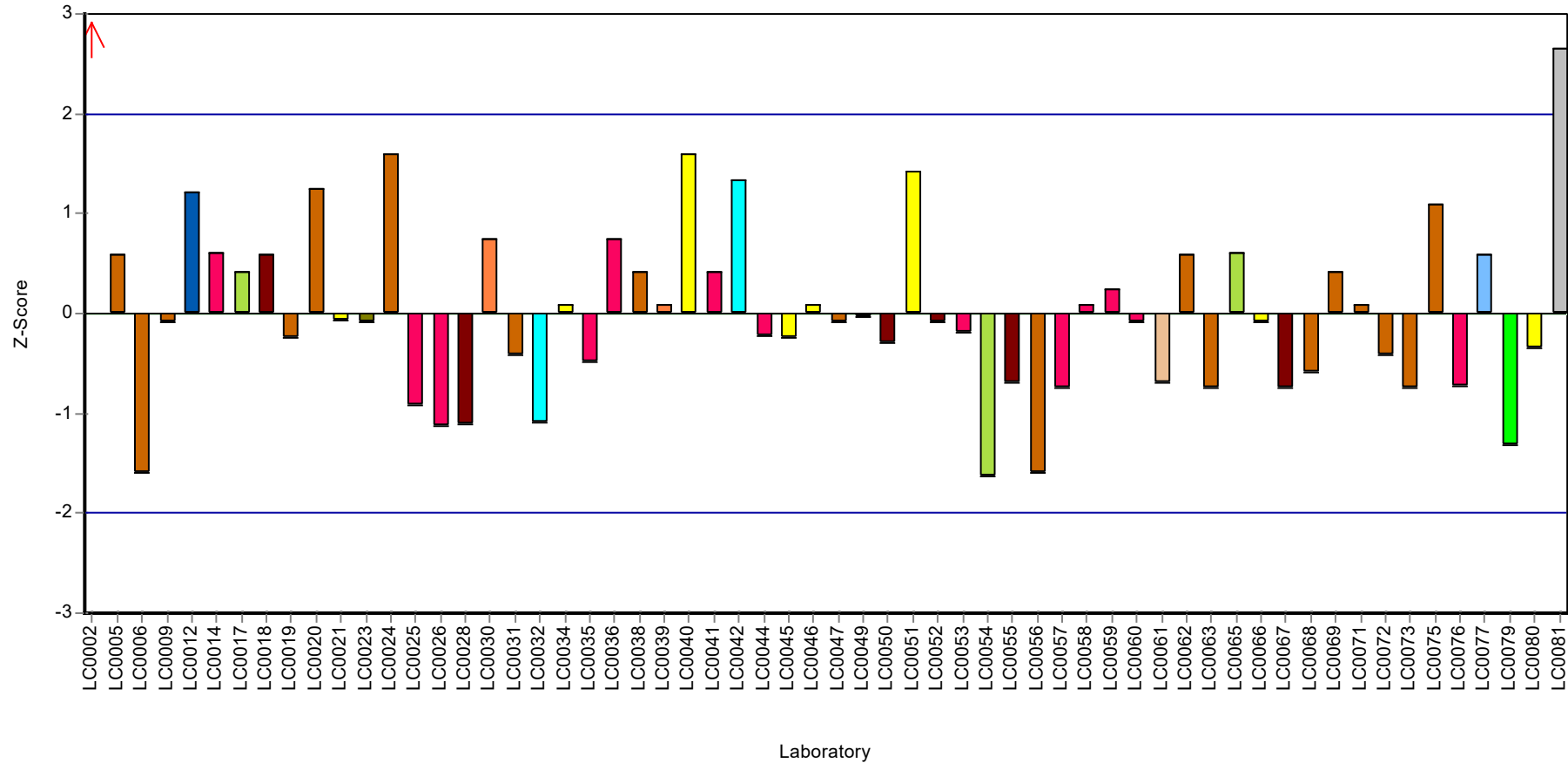
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Magnesium

Z-score



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Nitrate (as NO₃)

Parameter oriented report

N160 A

Nitrate (as NO₃)

Unit	mg/l
Assigned value ± U (k=2)	23.8 ± 0.233
Criterion	1.19 (5 %)
Minimum - Maximum	21.8 - 26
Control test value ± U (k=2)	29.30 ± 2.64

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	23.019	1.02	96.8	-0.64	
LC0002	23.71	1	99.7	-0.06	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	22.59	4.35	95	-1	
LC0006	24.3	0.57	102	0.44	
LC0007	24.61	2.707	103	0.7	
LC0008	-	-	-	-	
LC0009	23.3	1.2	98	-0.41	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	23.93	0.8	101	0.12	
LC0013	23.197	0.979	97.5	-0.49	
LC0014	24.28	0.62	102	0.42	
LC0015	23.3	1.6	98	-0.41	
LC0016	24	2	101	0.18	
LC0017	23.8	0.54	100	0.01	
LC0018	24.4	2.9	103	0.52	
LC0019	-	-	-	-	
LC0020	23.1	1.3	97.1	-0.57	
LC0021	25.193	5.039	106	1.19	
LC0022	22.48	1.12	94.5	-1.1	
LC0023	23.42	1.17	98.5	-0.3	
LC0024	24.11	0.64	101	0.28	
LC0025	23.3	1.4	98	-0.41	
LC0026	23.36	0.4	98.2	-0.35	
LC0027	24.7	0.45	104	0.77	
LC0028	22.73	0.28	95.6	-0.89	
LC0029	-	-	-	-	
LC0030	24.6	1	103	0.69	
LC0031	25.6	1.8	108	1.53	
LC0032	23.1	2.31	97.1	-0.57	
LC0033	-	-	-	-	
LC0034	24.3	2.4	102	0.44	
LC0035	23.112	3.118	97.2	-0.56	
LC0036	25.4	2.5	107	1.36	
LC0037	-	-	-	-	
LC0038	23.9	0.335	100	0.1	
LC0039	23.3	2.3	98	-0.41	
LC0040	23.9	0.25	100	0.1	
LC0041	23.8	1.1	100	0.01	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Nitrate (as NO₃)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	26	1	109	1.87	
LC0043	-	-	-	-	
LC0044	23.839	2.4	100	0.05	
LC0045	23.06	1.64	97	-0.61	
LC0046	21.8	2.18	91.7	-1.67	
LC0047	24.1	2	101	0.27	
LC0048	-	-	-	-	
LC0049	23.8	0.744	100	0.01	
LC0050	23.1	0.7	97.1	-0.57	
LC0051	23.8	4	100	0.01	
LC0052	24.7	1.7	104	0.77	
LC0053	23.36	2.64	98.2	-0.35	
LC0054	23.83	2.57	100	0.04	
LC0055	21.215	0.22	89.2	-2.16	H
LC0056	23.7	1.1	99.7	-0.07	
LC0057	24.1	1.3	101	0.27	
LC0058	24.5	2.07	103	0.6	
LC0059	24.2	1.9	102	0.35	
LC0060	23.7	0.5	99.7	-0.07	
LC0061	23.887	0.9555	100	0.09	
LC0062	20.3	0.71	85.4	-2.93	H
LC0063	22.5	0.4	94.6	-1.08	
LC0064	26.8	2	113	2.54	H
LC0065	24.09	2.7	101	0.26	
LC0066	22.2	1.4	93.3	-1.33	
LC0067	24	1.7	101	0.18	
LC0068	24	1.8	101	0.18	
LC0069	23.1	1.9	97.1	-0.57	
LC0070	-	-	-	-	
LC0071	-	-	-	-	
LC0072	22.6	2.37	95	-0.99	
LC0073	24.3	0.444	102	0.44	
LC0074	-	-	-	-	
LC0075	22.92	3.21	96.4	-0.72	
LC0076	23.37	5.84	98.3	-0.35	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	22.9	2.29	96.3	-0.74	
LC0080	23.597	0.133	99.2	-0.16	
LC0081	3.06	0.177	12.9	-17.4	H
LC0082	-	-	-	-	

Characteristics of parameter

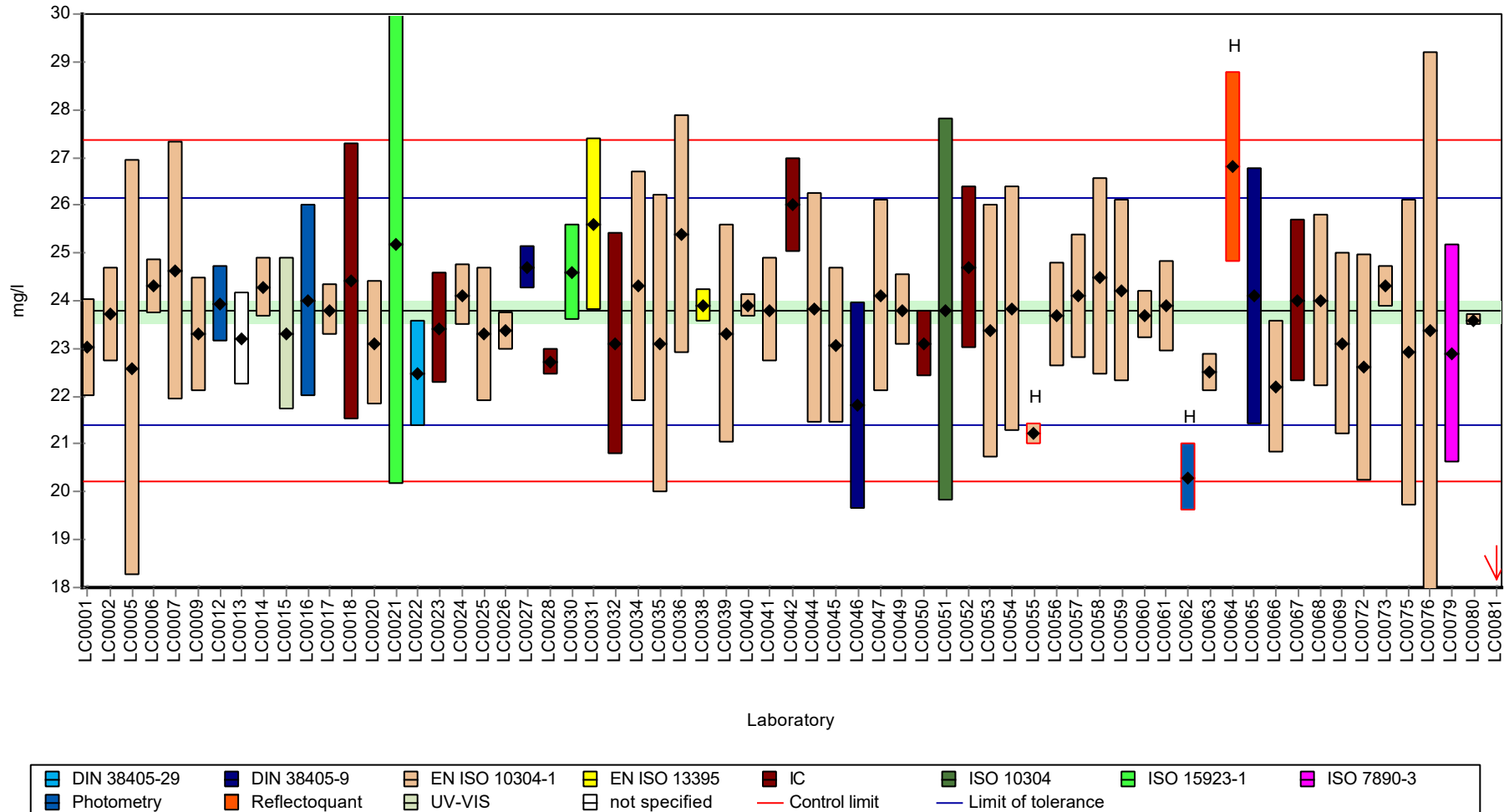
	all results	without outliers	Unit
Mean ± CI (99%)	23.4 ± 1.02	23.7 ± 0.31	mg/l
Minimum	3.06	21.8	mg/l
Maximum	26.8	26	mg/l
Standard deviation	2.75	0.806	mg/l
rel. standard deviation	11.8	3.4	%
n	65	61	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Nitrate (as NO₃)

Graphical presentation of results

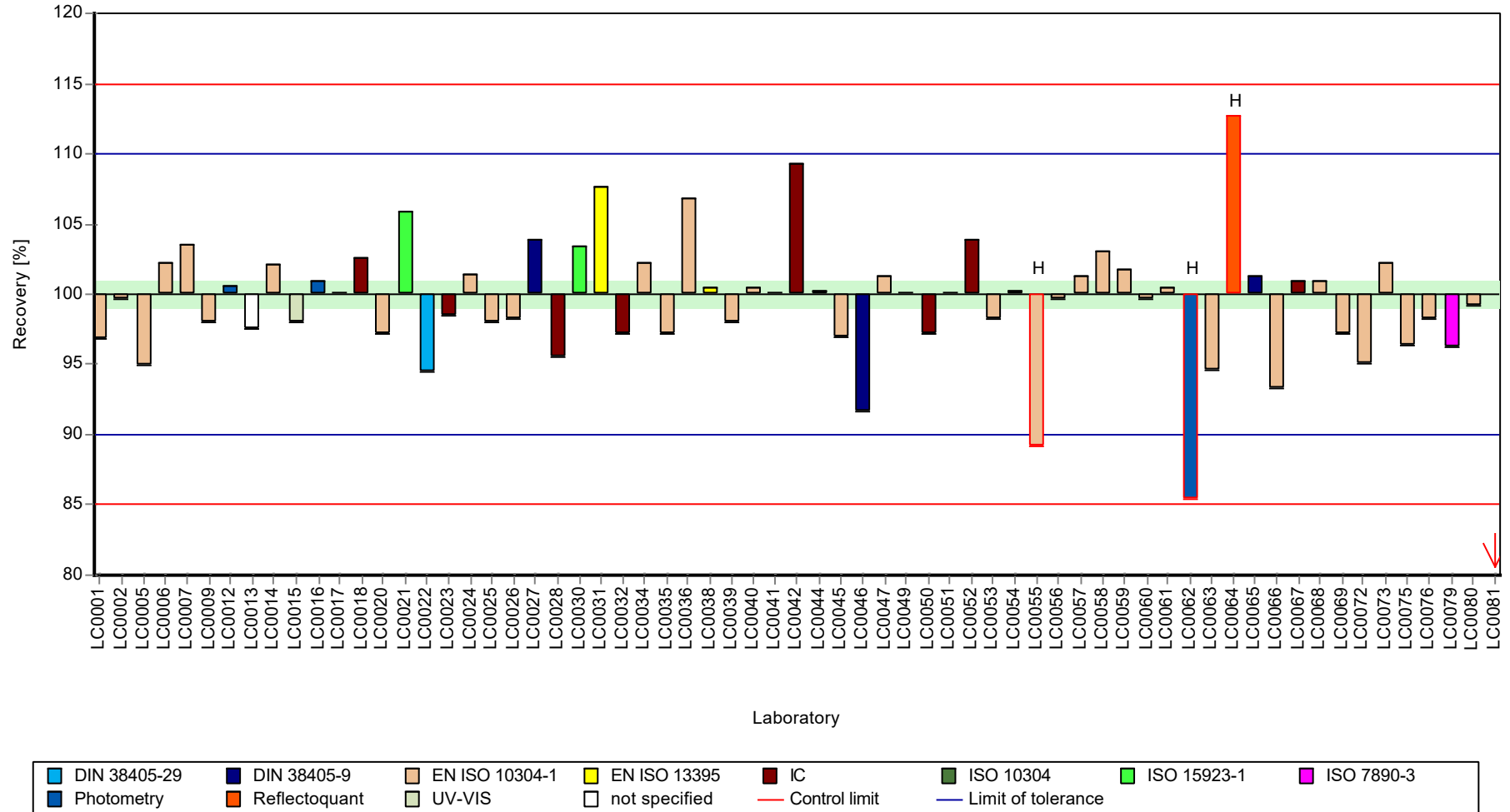
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Nitrate (as NO3)

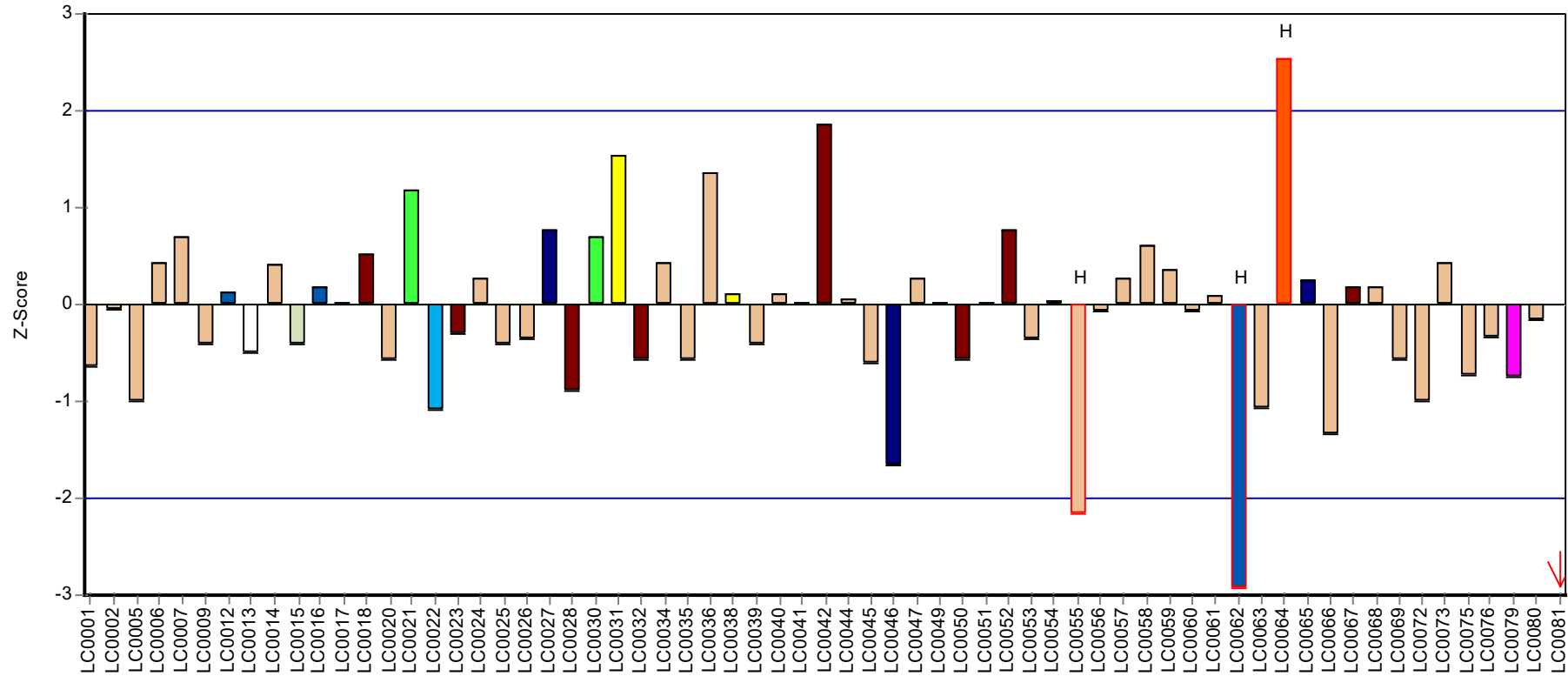
Recovery rate



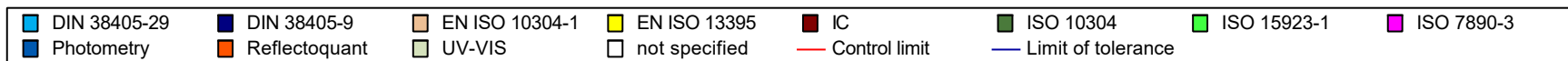
Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Nitrate (as NO3)

Z-score



Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Nitrate (as NO₃)

Parameter oriented report

N160 B

Nitrate (as NO₃)

Unit	mg/l
Assigned value ± U (k=2)	13.4 ± 0.132
Criterion	0.672 (5 %)
Minimum - Maximum	12.4 - 14.5
Control test value ± U (k=2)	19.40 ± 1.75

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	13.17	0.583	98	-0.4	
LC0002	13.49	0.57	100	0.08	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	12.77	2.46	95	-0.99	
LC0006	13.6	0.32	101	0.24	
LC0007	13.71	1.508	102	0.41	
LC0008	-	-	-	-	
LC0009	13.1	0.7	97.5	-0.5	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	13.85	0.8	103	0.61	
LC0013	12.75	0.796	94.9	-1.02	
LC0014	13.68	0.35	102	0.36	
LC0015	13.4	0.918	99.7	-0.06	
LC0016	13.5	1.5	100	0.09	
LC0017	13.6	0.31	101	0.24	
LC0018	13.4	1.6	99.7	-0.06	
LC0019	-	-	-	-	
LC0020	13.4	0.76	99.7	-0.06	
LC0021	14.485	2.897	108	1.56	
LC0022	12.35	0.62	91.9	-1.62	
LC0023	12.9	0.65	96	-0.8	
LC0024	13.9	0.37	103	0.69	
LC0025	13	0.8	96.7	-0.65	
LC0026	13.23	0.4	98.5	-0.31	
LC0027	14.2	0.16	106	1.13	
LC0028	13.16	0.09	97.9	-0.41	
LC0029	-	-	-	-	
LC0030	12.8	0.5	95.3	-0.95	
LC0031	14.5	1	108	1.58	
LC0032	23.1	2.31	172	14.4	H
LC0033	-	-	-	-	
LC0034	13.6	1.4	101	0.24	
LC0035	12.896	1.74	96	-0.81	
LC0036	14.4	1.4	107	1.43	
LC0037	-	-	-	-	
LC0038	13.3	0.186	99	-0.2	
LC0039	13.2	1.3	98.2	-0.35	
LC0040	13.7	0.35	102	0.39	
LC0041	13.6	0.6	101	0.24	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Nitrate (as NO₃)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	14.2	1	106	1.13	
LC0043	-	-	-	-	
LC0044	13.497	1.3	100	0.09	
LC0045	12.75	0.91	94.9	-1.02	
LC0046	12.9	1.29	96	-0.8	
LC0047	13.6	1.2	101	0.24	
LC0048	-	-	-	-	
LC0049	13.64	0.426	102	0.3	
LC0050	13.31	0.25	99	-0.19	
LC0051	13.2	2	98.2	-0.35	
LC0052	13.9	1	103	0.69	
LC0053	13.09	1.48	97.4	-0.52	
LC0054	13.46	0.627	100	0.03	
LC0055	12.668	0.2	94.3	-1.15	
LC0056	13.5	1.1	100	0.09	
LC0057	14.3	0.8	106	1.28	
LC0058	13.4	1.13	99.7	-0.06	
LC0059	13.9	1.1	103	0.69	
LC0060	13.5	0.3	100	0.09	
LC0061	13.457	0.5383	100	0.03	
LC0062	10.7	0.38	79.6	-4.07	H
LC0063	13.2	0.4	98.2	-0.35	
LC0064	16	2	119	3.81	H
LC0065	13.66	1.47	102	0.33	
LC0066	12.8	0.8	95.3	-0.95	
LC0067	13.7	1	102	0.39	
LC0068	13.6	1	101	0.24	
LC0069	13	1.1	96.7	-0.65	
LC0070	-	-	-	-	
LC0071	-	-	-	-	
LC0072	13.4	1.41	99.7	-0.06	
LC0073	13.8	0.508	103	0.54	
LC0074	-	-	-	-	
LC0075	13.27	1.86	98.8	-0.25	
LC0076	13.02	3.3	96.9	-0.62	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	12.5	1.25	93	-1.4	
LC0080	13.243	0.0375	98.6	-0.29	
LC0081	2.05	0.119	15.3	-16.9	H
LC0082	-	-	-	-	

Characteristics of parameter

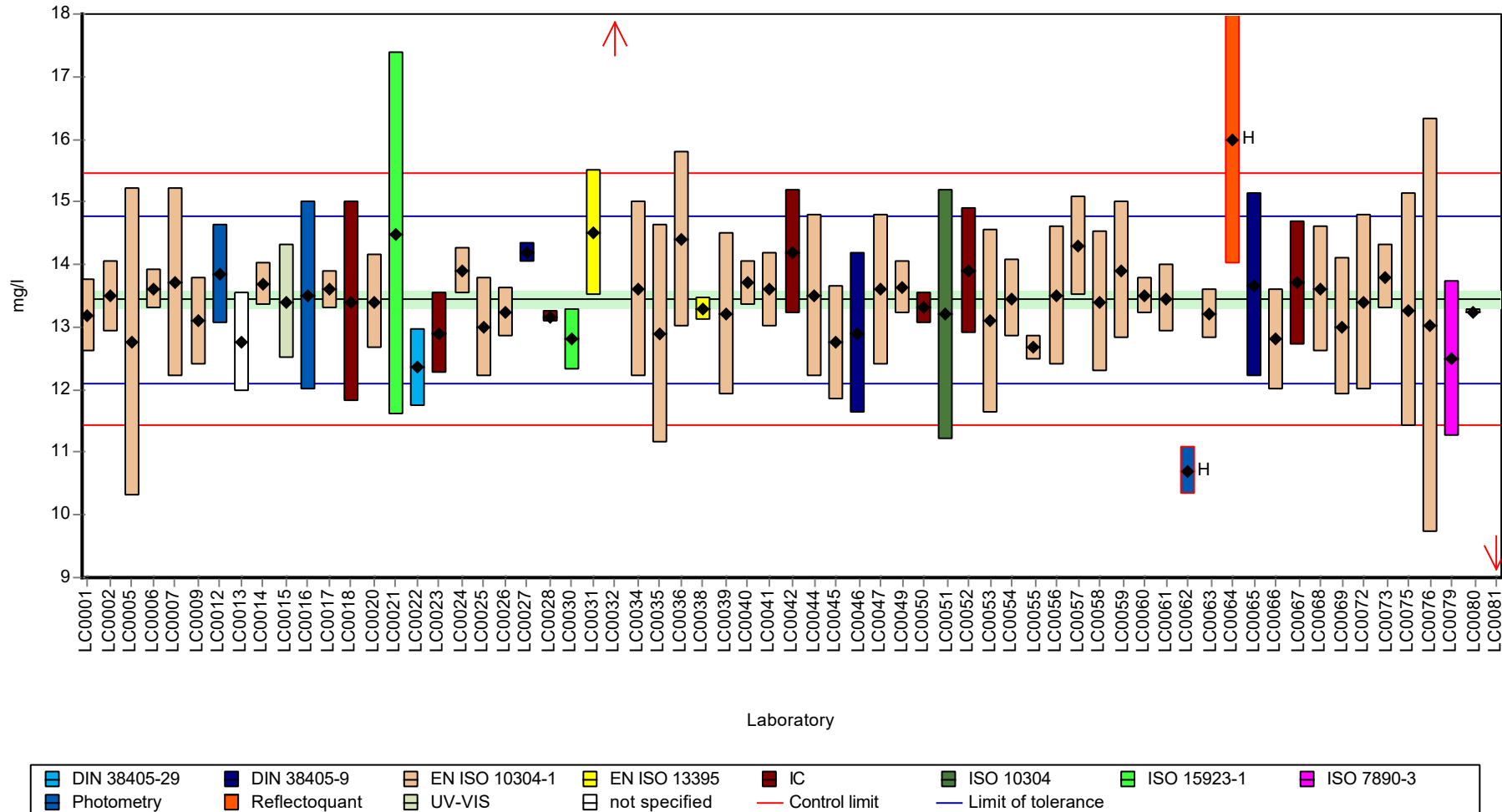
	all results	without outliers	Unit
Mean ± CI (99%)	13.4 ± 0.736	13.4 ± 0.182	mg/l
Minimum	2.05	12.4	mg/l
Maximum	23.1	14.5	mg/l
Standard deviation	1.98	0.474	mg/l
rel. standard deviation	14.8	3.54	%
n	65	61	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Nitrate (as NO₃)

Graphical presentation of results

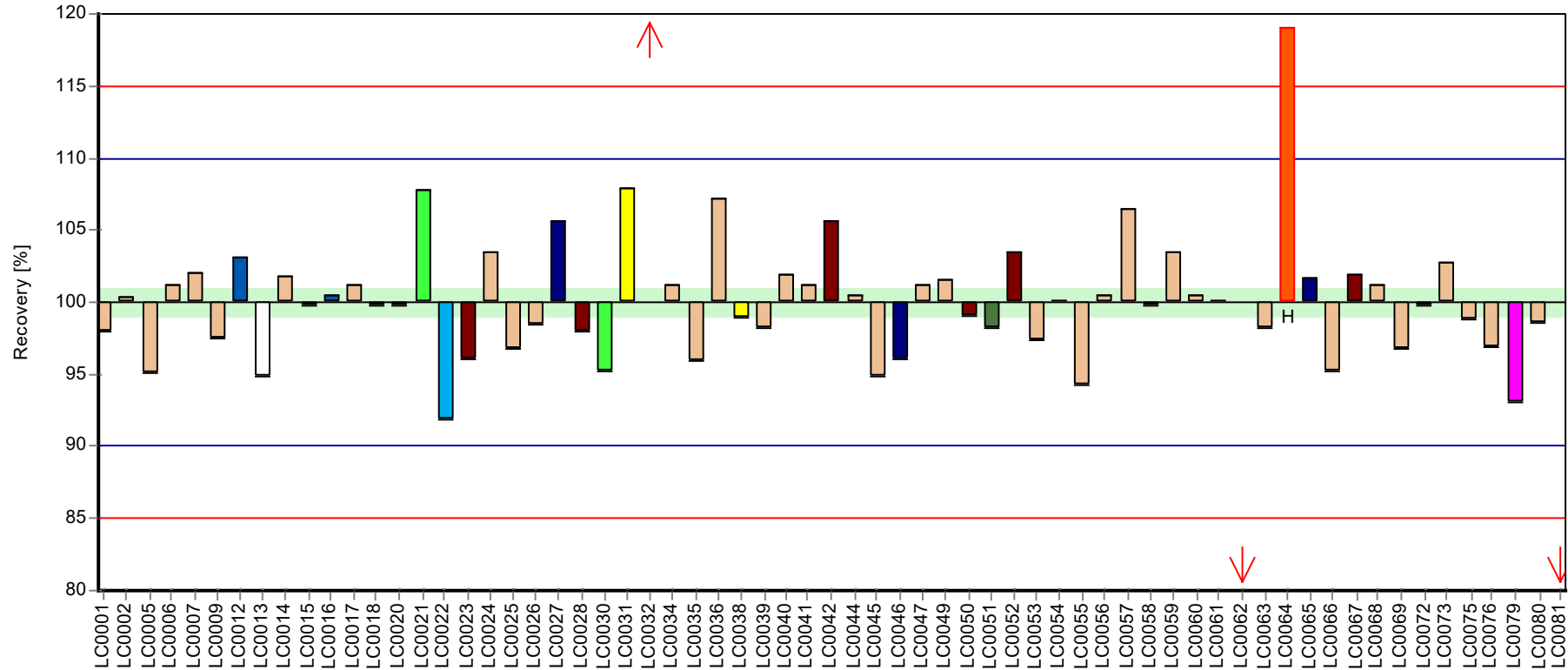
Results



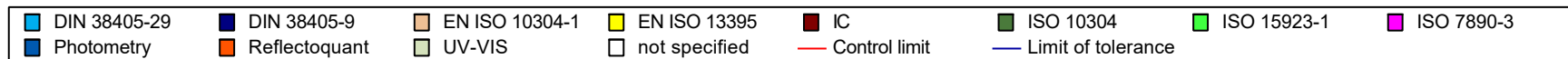
Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Nitrate (as NO₃)

Recovery rate



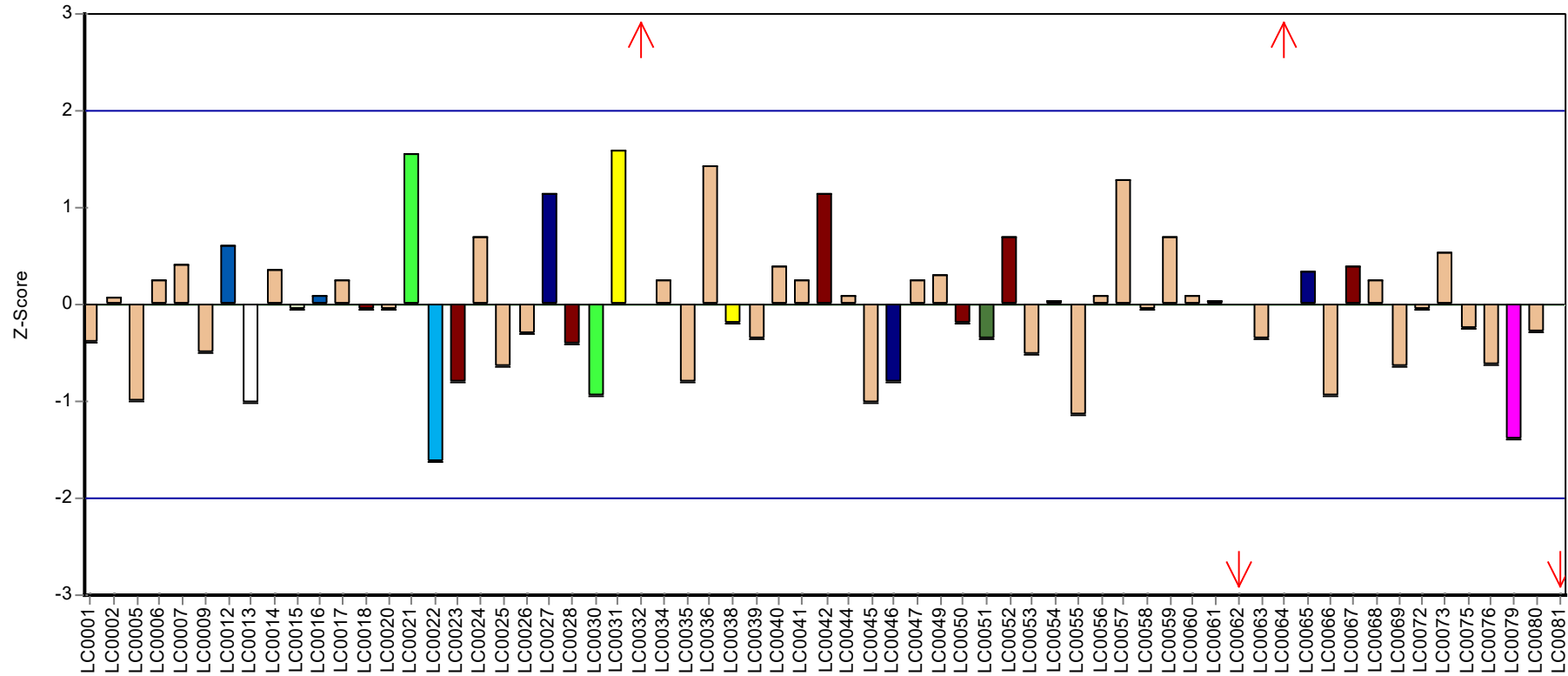
Laboratory



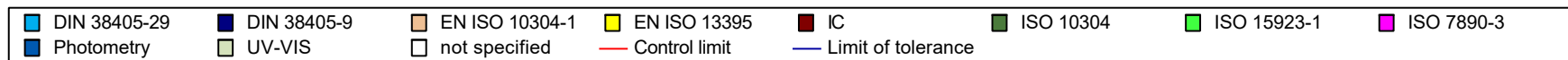
Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Nitrate (as NO3)

Z-score



Laboratory



Parameter oriented report

N160 A

Nitrite (as NO₂)

Unit	mg/l
Assigned value ± U (k=2)	0.288 ± 0.00359
Criterion	0.0153 (5.3 %)
Minimum - Maximum	0.252 - 0.32
Control test value ± U (k=2)	0.2920 ± 0.0351

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.293	0.082	102	0.3	
LC0002	0.2895	0.0154	100	0.07	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	0.27	0.027	93.6	-1.2	
LC0006	0.303	0.031	105	0.95	
LC0007	0.2985	0.04478	104	0.66	
LC0008	-	-	-	-	
LC0009	0.294	0.03	102	0.37	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	0.3	0.016	104	0.76	
LC0015	0.289	0.0289	100	0.04	
LC0016	0.292	0.03	101	0.23	
LC0017	0.282	0.017	97.8	-0.42	
LC0018	0.286	0.057	99.2	-0.16	
LC0019	0.29	0.05	101	0.1	
LC0020	0.362	0.025	126	4.81	H
LC0021	0.333	0.0666	115	2.92	H
LC0022	0.295	0.009	102	0.43	
LC0023	0.276	0.028	95.7	-0.81	
LC0024	0.335	0.011	116	3.05	H
LC0025	0.299	0.024	104	0.69	
LC0026	0.289	0.002	100	0.04	
LC0027	0.283	0.005	98.1	-0.35	
LC0028	0.33	0.03	114	2.72	H
LC0029	-	-	-	-	
LC0030	0.284	0.005	98.5	-0.29	
LC0031	0.28	0.015	97.1	-0.55	
LC0032	0.305	0.031	106	1.09	
LC0033	0.27	0.012	93.6	-1.2	
LC0034	0.28	0.11	97.1	-0.55	
LC0035	0.208	0.033	72.1	-5.26	H
LC0036	0.283	0.028	98.1	-0.35	
LC0037	-	-	-	-	
LC0038	0.288	0.019	99.9	-0.03	
LC0039	0.2755	0.0169	95.5	-0.84	
LC0040	0.296	0.002	103	0.5	
LC0041	0.281	0.014	97.4	-0.48	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Nitrite (as NO₂)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	0.273	0.01	94.7	-1.01	
LC0043	-	-	-	-	
LC0044	0.287	0.027	99.5	-0.09	
LC0045	0.287	0.029	99.5	-0.09	
LC0046	0.245	0.0245	84.9	-2.84	H
LC0047	-	-	-	-	
LC0048	0.286	0.045	99.2	-0.16	
LC0049	0.314	0.0112	109	1.67	
LC0050	0.32	0.01	111	2.07	
LC0051	< 0.005 (LOQ)	-	-	-	FN
LC0052	0.312	0.05	108	1.54	
LC0053	0.283	0.01	98.1	-0.35	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	0.284	0.013	98.5	-0.29	
LC0057	-	-	-	-	
LC0058	0.3	0.032	104	0.76	
LC0059	0.294	0.035	102	0.37	
LC0060	0.292	0.01	101	0.23	
LC0061	0.292	0.0234	101	0.23	
LC0062	0.291	0.027	101	0.17	
LC0063	0.279	0.001	96.7	-0.61	
LC0064	<0.5 (LOD)	-	-	-	
LC0065	0.283	0.025	98.1	-0.35	
LC0066	0.274	0.021	95	-0.94	
LC0067	0.291	0.058	101	0.17	
LC0068	0.292	0.029	101	0.23	
LC0069	0.286	0.03	99.2	-0.16	
LC0070	-	-	-	-	
LC0071	-	-	-	-	
LC0072	0.289	0.0162	100	0.04	
LC0073	0.27	0.00692	93.6	-1.2	
LC0074	-	-	-	-	
LC0075	0.2985	0.057	104	0.66	
LC0076	0.3089	0.031	107	1.34	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	0.31	0.03	107	1.41	
LC0080	0.254	0.0005	88.1	-2.25	
LC0081	0.252	0.037	87.4	-2.38	
LC0082	-	-	-	-	

Characteristics of parameter

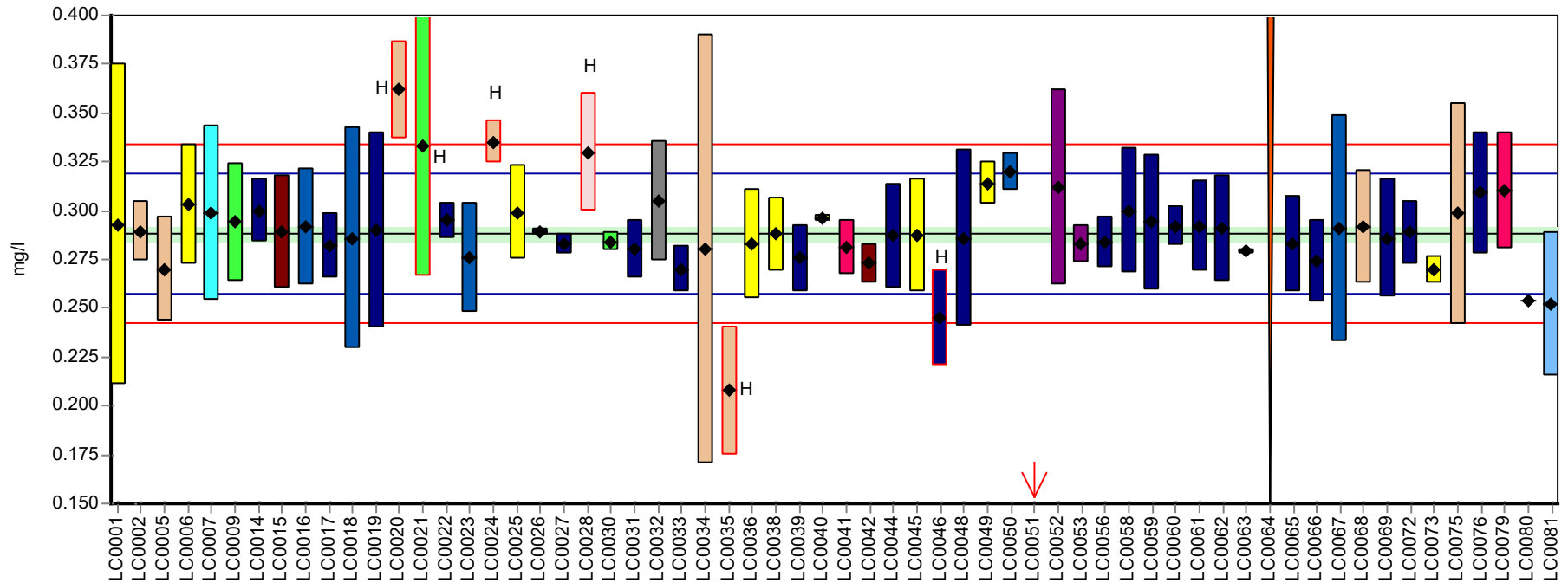
	all results	without outliers	Unit
Mean ± CI (99%)	0.29 ± 0.00855	0.288 ± 0.00538	mg/l
Minimum	0.208	0.252	mg/l
Maximum	0.362	0.32	mg/l
Standard deviation	0.0221	0.0132	mg/l
rel. standard deviation	7.62	4.57	%
n	60	54	-

Parameter oriented report Nutrients/Major Ions N160

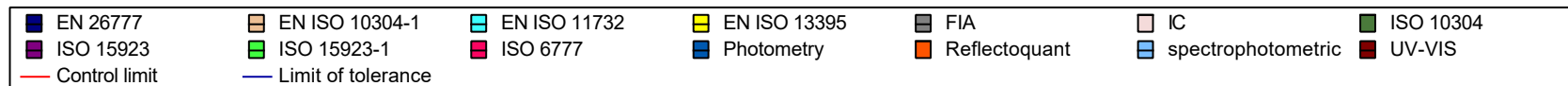
Sample: N160A, Parameter: Nitrite (as NO₂)

Graphical presentation of results

Results



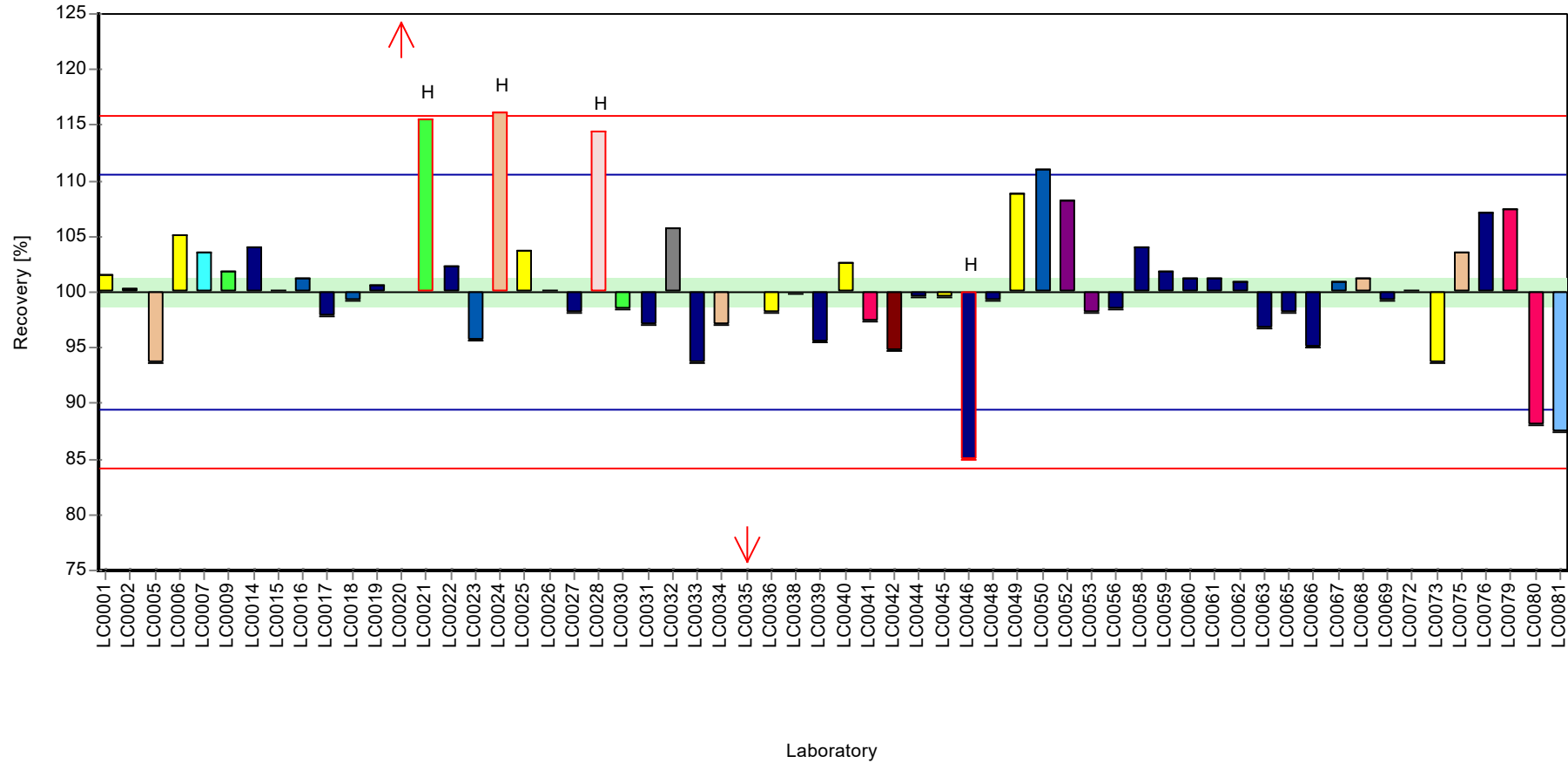
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Nitrite (as NO₂)

Recovery rate

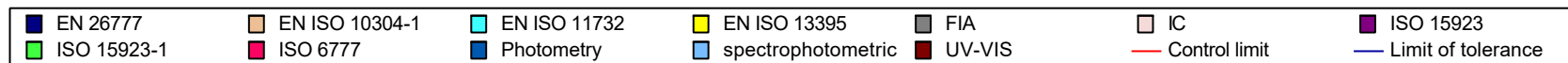
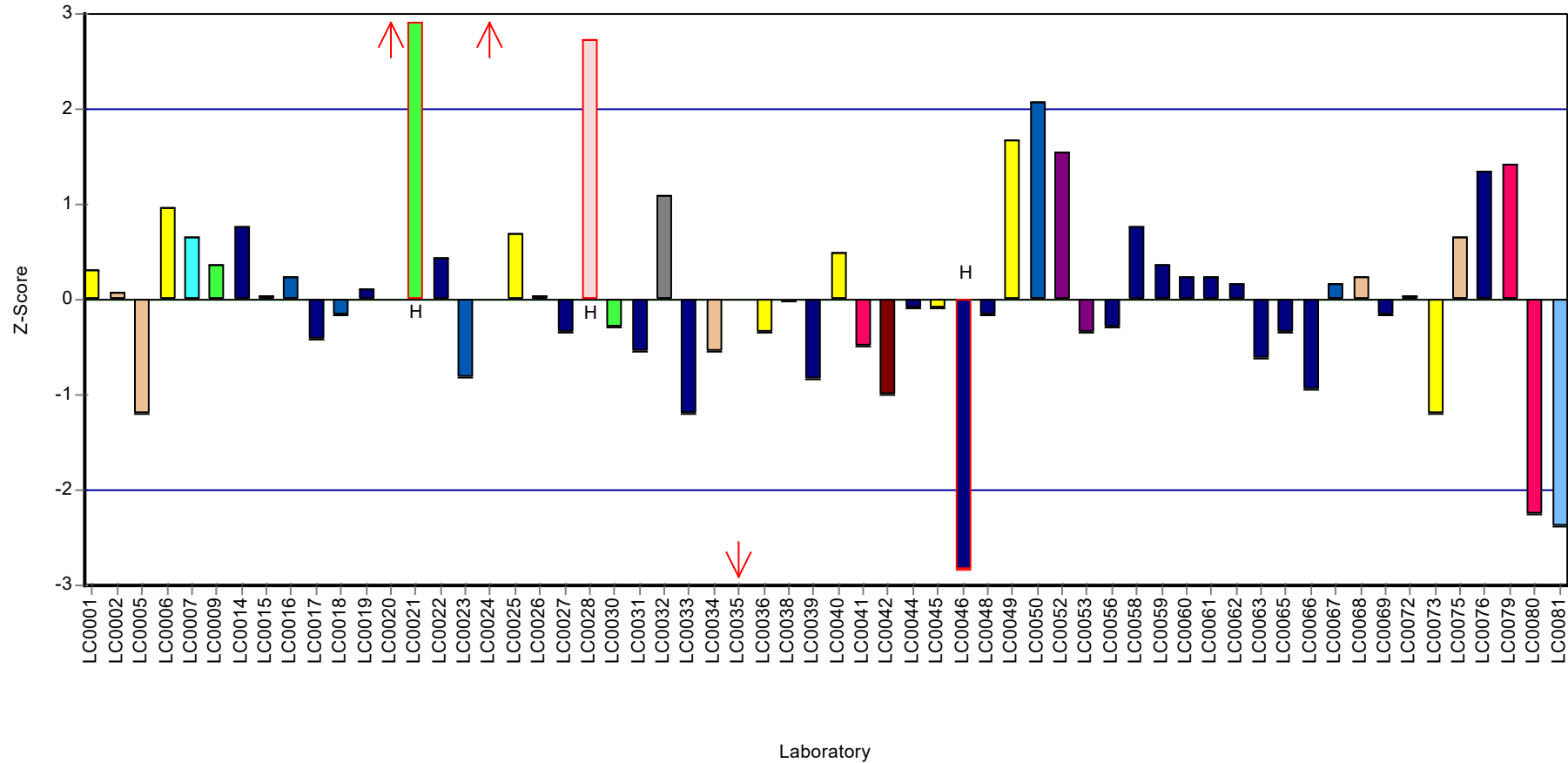


EN 26777	EN ISO 10304-1	EN ISO 11732	EN ISO 13395	FIA	IC	ISO 15923
ISO 15923-1	ISO 6777	Photometry	spectrophotometric	UV-VIS	Control limit	Limit of tolerance

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Nitrite (as NO2)

Z-score



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Nitrite (as NO₂)

Parameter oriented report

N160 B

Nitrite (as NO₂)

Unit	mg/l
Assigned value ± U (k=2)	0.193 ± 0.00273
Criterion	0.0102 (5.3 %)
Minimum - Maximum	0.165 - 0.217
Control test value ± U (k=2)	0.1950 ± 0.0234

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.197	0.055	102	0.37	
LC0002	0.1885	0.01	97.6	-0.46	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	0.175	0.018	90.6	-1.77	
LC0006	0.199	0.02	103	0.57	
LC0007	0.1925	0.02888	99.7	-0.07	
LC0008	-	-	-	-	
LC0009	0.194	0.02	100	0.08	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	0.19	0.01	98.4	-0.31	
LC0015	0.191	0.0191	98.9	-0.21	
LC0016	0.194	0.02	100	0.08	
LC0017	0.195	0.012	101	0.18	
LC0018	0.195	0.039	101	0.18	
LC0019	0.195	0.033	101	0.18	
LC0020	0.215	0.015	111	2.13	
LC0021	0.215	0.043	111	2.13	
LC0022	0.194	0.006	100	0.08	
LC0023	0.184	0.018	95.3	-0.9	
LC0024	0.214	0.0069	111	2.03	
LC0025	0.193	0.015	99.9	-0.02	
LC0026	0.1861	0.002	96.3	-0.69	
LC0027	0.184	0.005	95.3	-0.9	
LC0028	0.42	0.01	217	22.2	H
LC0029	-	-	-	-	
LC0030	0.187	0.005	96.8	-0.6	
LC0031	0.185	0.01	95.8	-0.8	
LC0032	0.204	0.02	106	1.06	
LC0033	0.18	0.008	93.2	-1.29	
LC0034	0.18	0.07	93.2	-1.29	
LC0035	0.161	0.025	83.3	-3.14	H
LC0036	0.188	0.019	97.3	-0.51	
LC0037	-	-	-	-	
LC0038	0.191	0.0126	98.9	-0.21	
LC0039	0.1835	0.0112	95	-0.94	
LC0040	0.198	0.001	103	0.47	
LC0041	0.185	0.009	95.8	-0.8	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Nitrite (as NO₂)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	0.181	0.01	93.7	-1.19	
LC0043	-	-	-	-	
LC0044	0.1887	0.019	97.7	-0.44	
LC0045	0.19	0.019	98.4	-0.31	
LC0046	0.165	0.0165	85.4	-2.75	
LC0047	-	-	-	-	
LC0048	0.197	0.03	102	0.37	
LC0049	0.2168	0.00775	112	2.31	
LC0050	0.21	0.01	109	1.64	
LC0051	0.019	0.003	9.8	-17	H
LC0052	0.216	0.034	112	2.23	
LC0053	0.187	0.006	96.8	-0.6	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	0.191	0.013	98.9	-0.21	
LC0057	-	-	-	-	
LC0058	0.19	0.02	98.4	-0.31	
LC0059	0.198	0.024	103	0.47	
LC0060	0.194	0.005	100	0.08	
LC0061	0.184	0.0147	95.3	-0.9	
LC0062	0.198	0.019	103	0.47	
LC0063	0.183	0.02	94.7	-0.99	
LC0064	<0.5 (LOD)	-	-	-	
LC0065	0.186	0.017	96.3	-0.7	
LC0066	0.19	0.015	98.4	-0.31	
LC0067	0.191	0.038	98.9	-0.21	
LC0068	0.195	0.02	101	0.18	
LC0069	0.192	0.02	99.4	-0.11	
LC0070	-	-	-	-	
LC0071	-	-	-	-	
LC0072	0.195	0.0109	101	0.18	
LC0073	0.19	0.00152	98.4	-0.31	
LC0074	-	-	-	-	
LC0075	0.1985	0.032	103	0.52	
LC0076	0.202	0.02	105	0.86	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	0.21	0.02	109	1.64	
LC0080	0.199	0.0004	103	0.57	
LC0081	0.159	0.025	82.3	-3.34	H
LC0082	-	-	-	-	

Characteristics of parameter

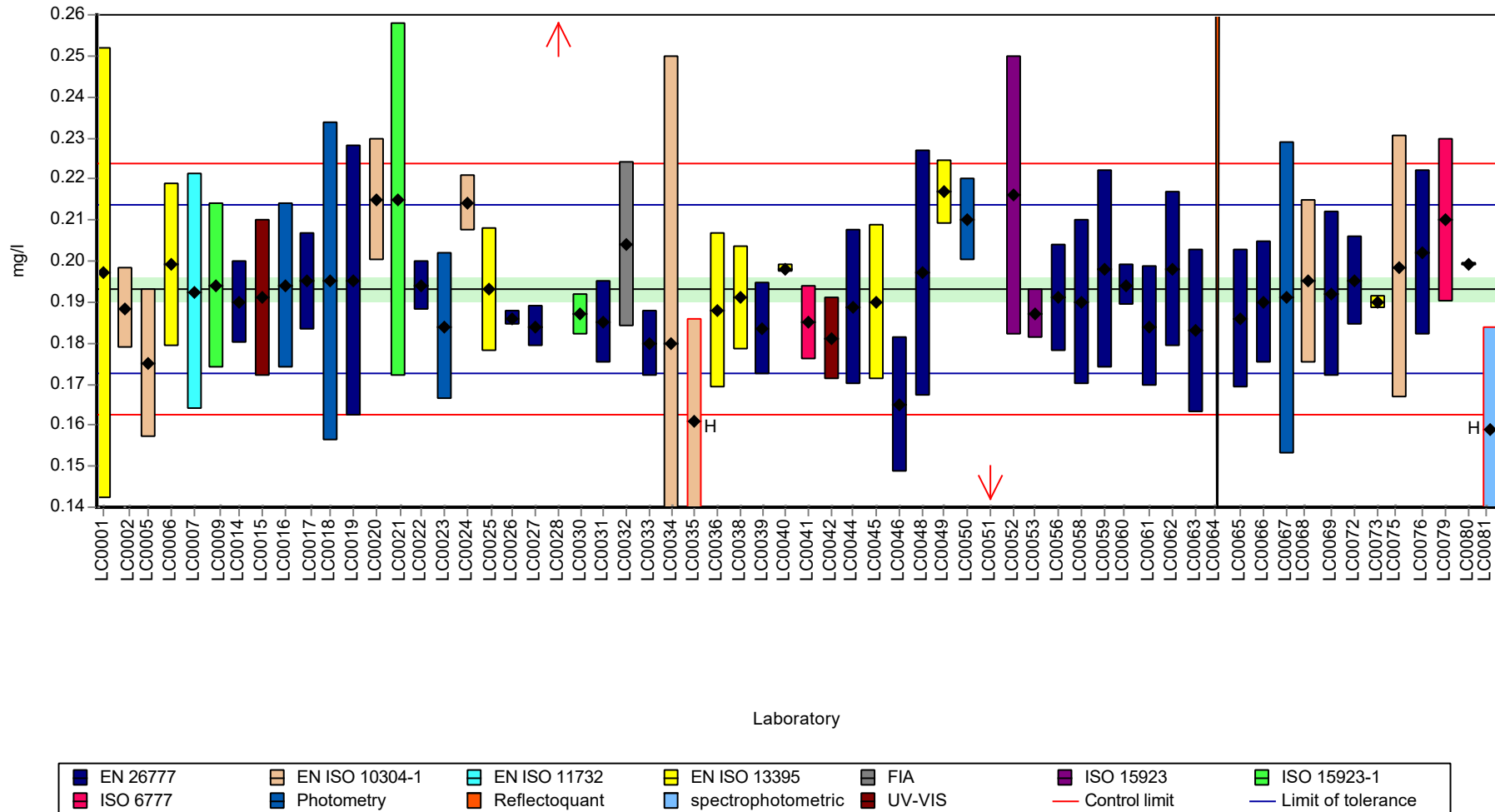
	all results	without outliers	Unit
Mean ± CI (99%)	0.193 ± 0.0149	0.193 ± 0.0041	mg/l
Minimum	0.019	0.165	mg/l
Maximum	0.42	0.217	mg/l
Standard deviation	0.0387	0.0103	mg/l
rel. standard deviation	20.1	5.34	%
n	61	57	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Nitrite (as NO₂)

Graphical presentation of results

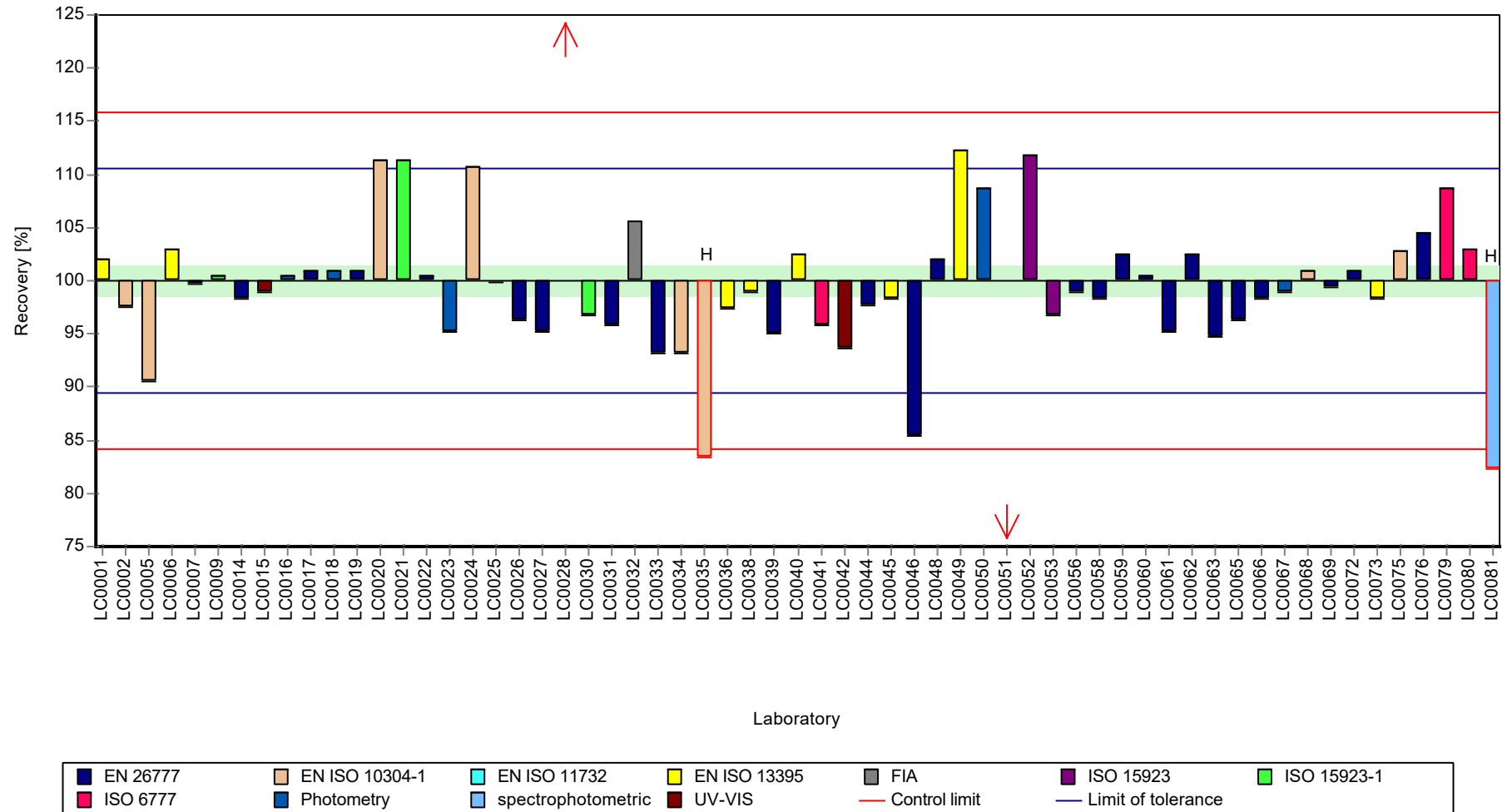
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Nitrite (as NO₂)

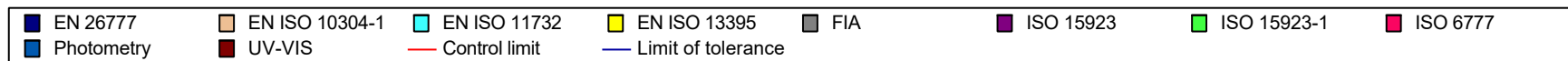
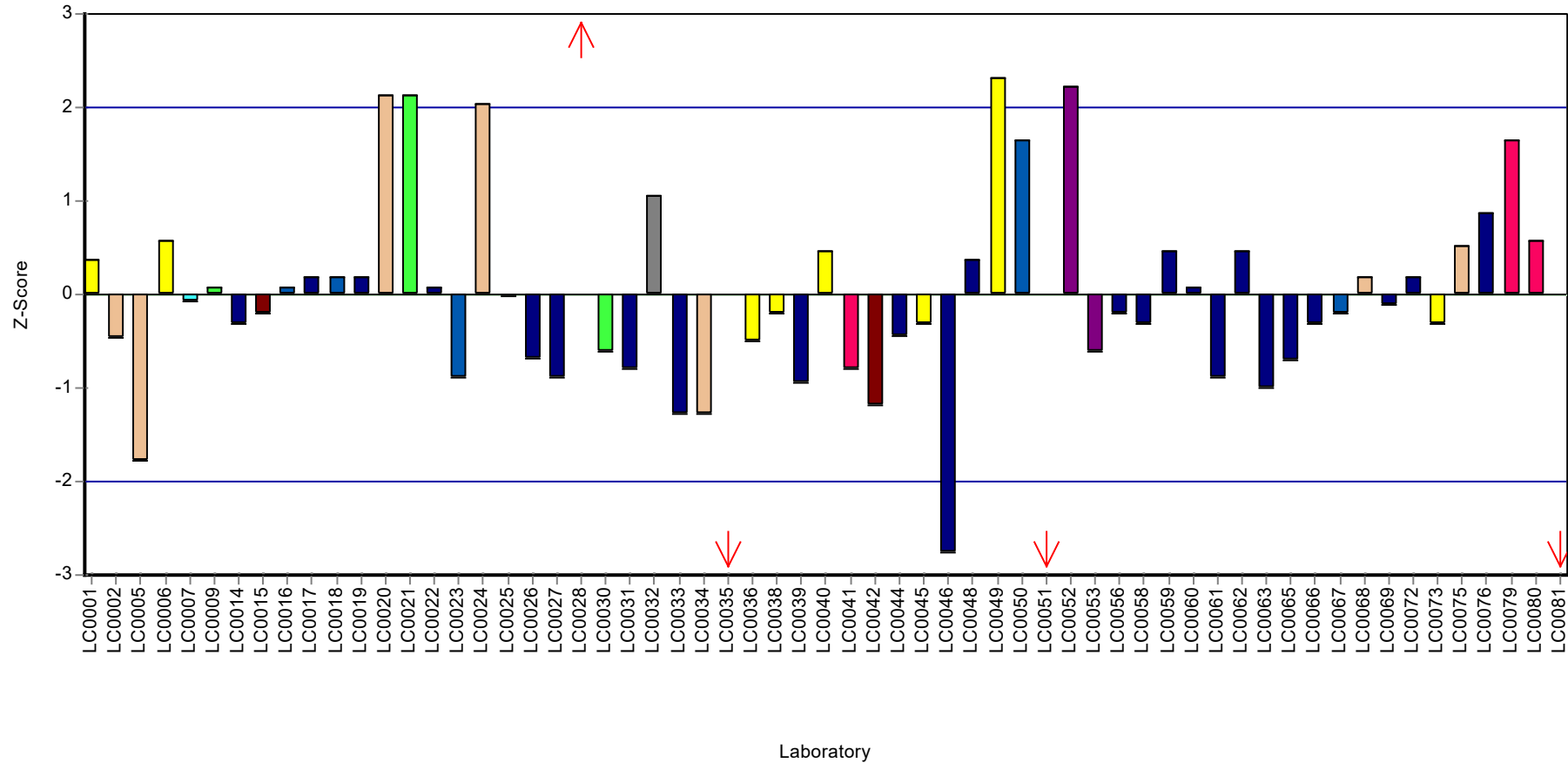
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Nitrite (as NO₂)

Z-score



Parameter oriented report

N160 A

Orthophosphate (as PO4)

Unit	mg/l
Assigned value ± U (k=2)	0.0617 ± 0.00324
Criterion	0.00987 (16 %)
Minimum - Maximum	0.04 - 0.093
Control test value ± U (k=2)	< 0.15

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.055	0.009	89.2	-0.68	
LC0002	0.0467	0.001	75.7	-1.52	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.0636	0.0045	103	0.2	
LC0007	0.0552	0.00828	89.5	-0.65	
LC0008	-	-	-	-	
LC0009	0.074	0.008	120	1.25	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.0445	0.0323	72.2	-1.74	
LC0014	0.0527	0.004	85.5	-0.91	
LC0015	0.0635	0.00745	103	0.19	
LC0016	0.019	0.002	30.8	-4.32	H
LC0017	0.0843	0.0094	137	2.3	
LC0018	0.055	0.02	89.2	-0.68	
LC0019	0.066	0.01	107	0.44	
LC0020	0.069	0.004	112	0.74	
LC0021	0.0614	0.0123	99.6	-0.03	
LC0022	0.072	0.004	117	1.05	
LC0023	0.017	0.002	27.6	-4.53	H
LC0024	0.0639	0.003	104	0.23	
LC0025	0.064	0.004	104	0.24	
LC0026	0.0546	0.002	88.6	-0.71	
LC0027	0.0505	0.0006	81.9	-1.13	
LC0028	4.55	0.24	7380	455	H
LC0029	-	-	-	-	
LC0030	0.065	0.005	105	0.34	
LC0031	< 0.015 (LOQ)	-	-	-	FN
LC0032	0.061	0.006	98.9	-0.07	
LC0033	-	-	-	-	
LC0034	< 1 (LOQ)	-	-	-	
LC0035	-	-	-	-	
LC0036	0.068	0.007	110	0.64	
LC0037	-	-	-	-	
LC0038	0.0621	0.00472	101	0.04	
LC0039	0.056	0.004	90.8	-0.57	
LC0040	0.0457	0.001	74.1	-1.62	
LC0041	0.065	0.003	105	0.34	

Parameter oriented report Nutrients/Major Ions N160 Sample: N160A, Parameter: Orthophosphate (as PO4)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	-	-	-	-	
LC0044	0.0676	0.007	110	0.6	
LC0045	0.065	0.007	105	0.34	
LC0046	0.064	0.0064	104	0.24	
LC0047	< 0.15 (LOQ)	-	-	-	
LC0048	0.07	0.01	114	0.85	
LC0049	-	-	-	-	
LC0050	0.02	0.0013	32.4	-4.22	H
LC0051	< 0.1 (LOQ)	-	-	-	
LC0052	0.05	0.03	81.1	-1.18	
LC0053	0.0531	0.0053	86.1	-0.87	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	0.053	0.06	86	-0.88	
LC0057	-	-	-	-	
LC0058	0.067	0.018	109	0.54	
LC0059	0.06	0.005	97.3	-0.17	
LC0060	0.066	0.0015	107	0.44	
LC0061	0.064	0.0077	104	0.24	
LC0062	0.063	0.00075	102	0.14	
LC0063	< 0.4 (LOQ)	-	-	-	
LC0064	-	-	-	-	
LC0065	-	-	-	-	
LC0066	0.059	0.008	95.7	-0.27	
LC0067	< 0.15 (LOQ)	-	-	-	
LC0068	0.051	0.007	82.7	-1.08	
LC0069	0.093	0.01	151	3.18	
LC0070	0.065	0.0065	105	0.34	
LC0071	-	-	-	-	
LC0072	0.0469	0.00025	76.1	-1.5	
LC0073	0.0678	0.0017	110	0.62	
LC0074	0.066	0.003	107	0.44	
LC0075	< 0.2 (LOQ)	-	-	-	
LC0076	-	-	-	-	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	0.12	0.012	195	5.91	H
LC0080	0.0429	0.0005	69.6	-1.9	
LC0081	0.04	0.006	64.9	-2.2	
LC0082	-	-	-	-	

Characteristics of parameter

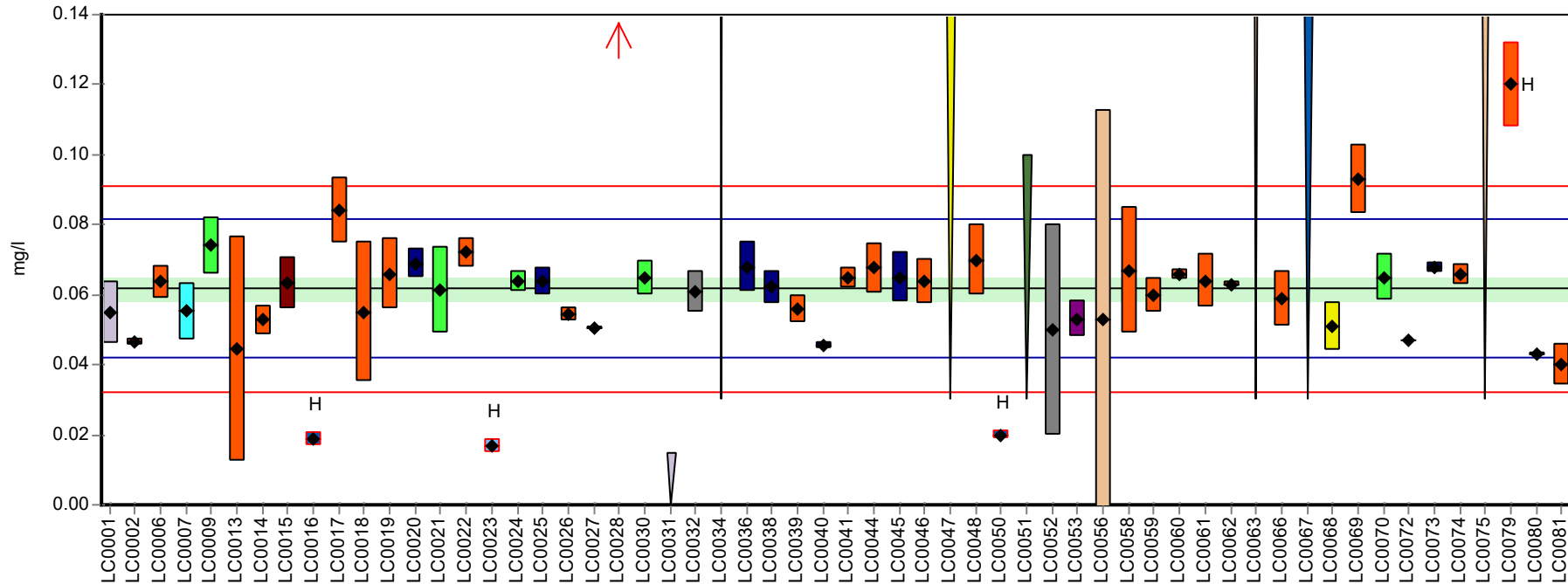
	all results	without outliers	Unit
Mean ± CI (99%)	0.147 ± 0.264	0.0607 ± 0.00454	mg/l
Minimum	0.017	0.04	mg/l
Maximum	4.55	0.093	mg/l
Standard deviation	0.629	0.0103	mg/l
rel. standard deviation	427	16.9	%
n	51	46	-

Parameter oriented report Nutrients/Major Ions N160

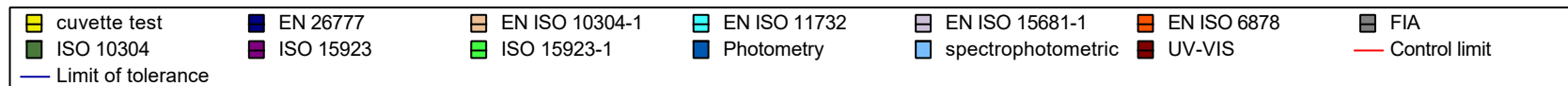
Sample: N160A, Parameter: Orthophosphate (as PO4)

Graphical presentation of results

Results



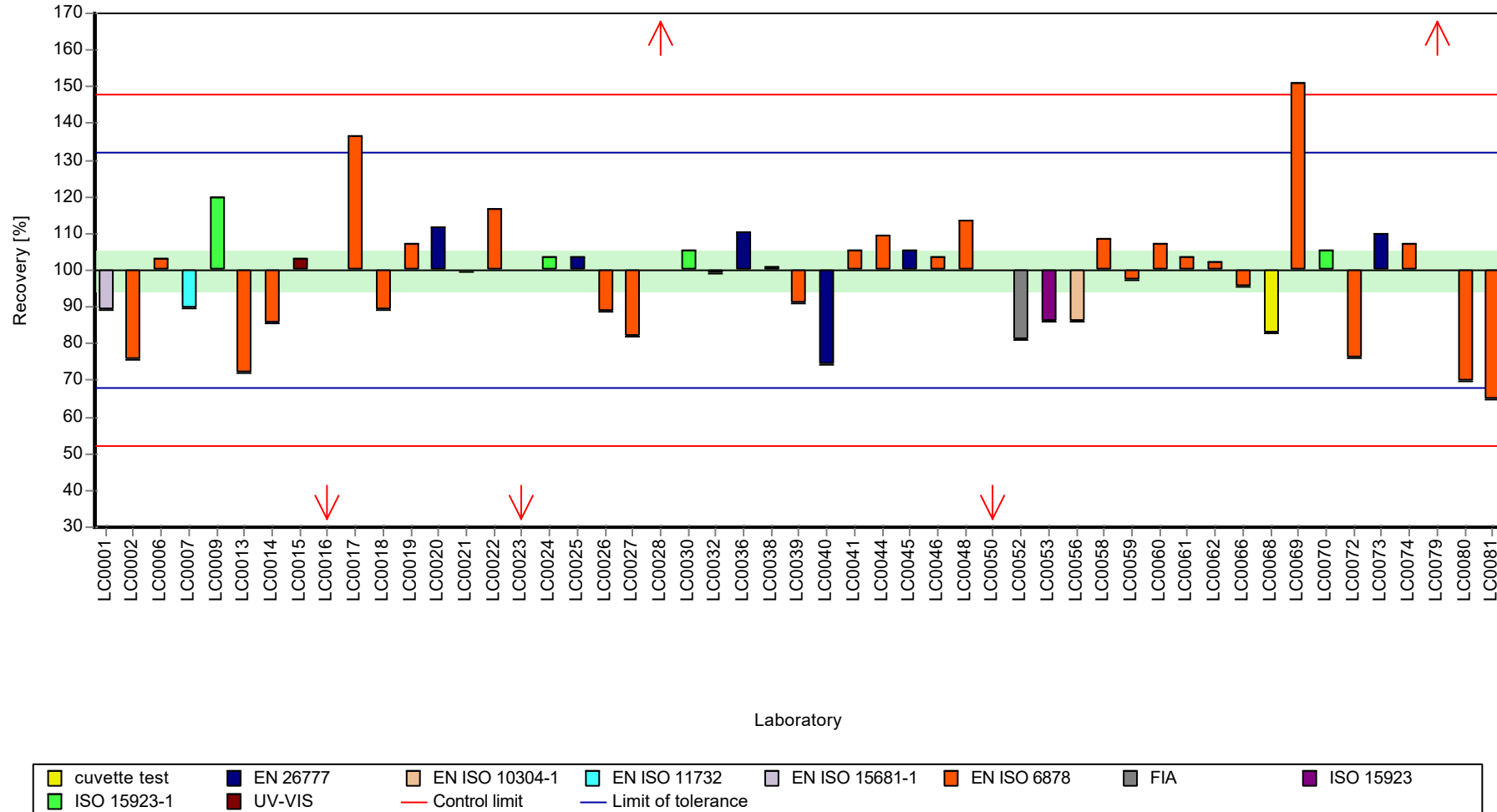
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Orthophosphate (as PO4)

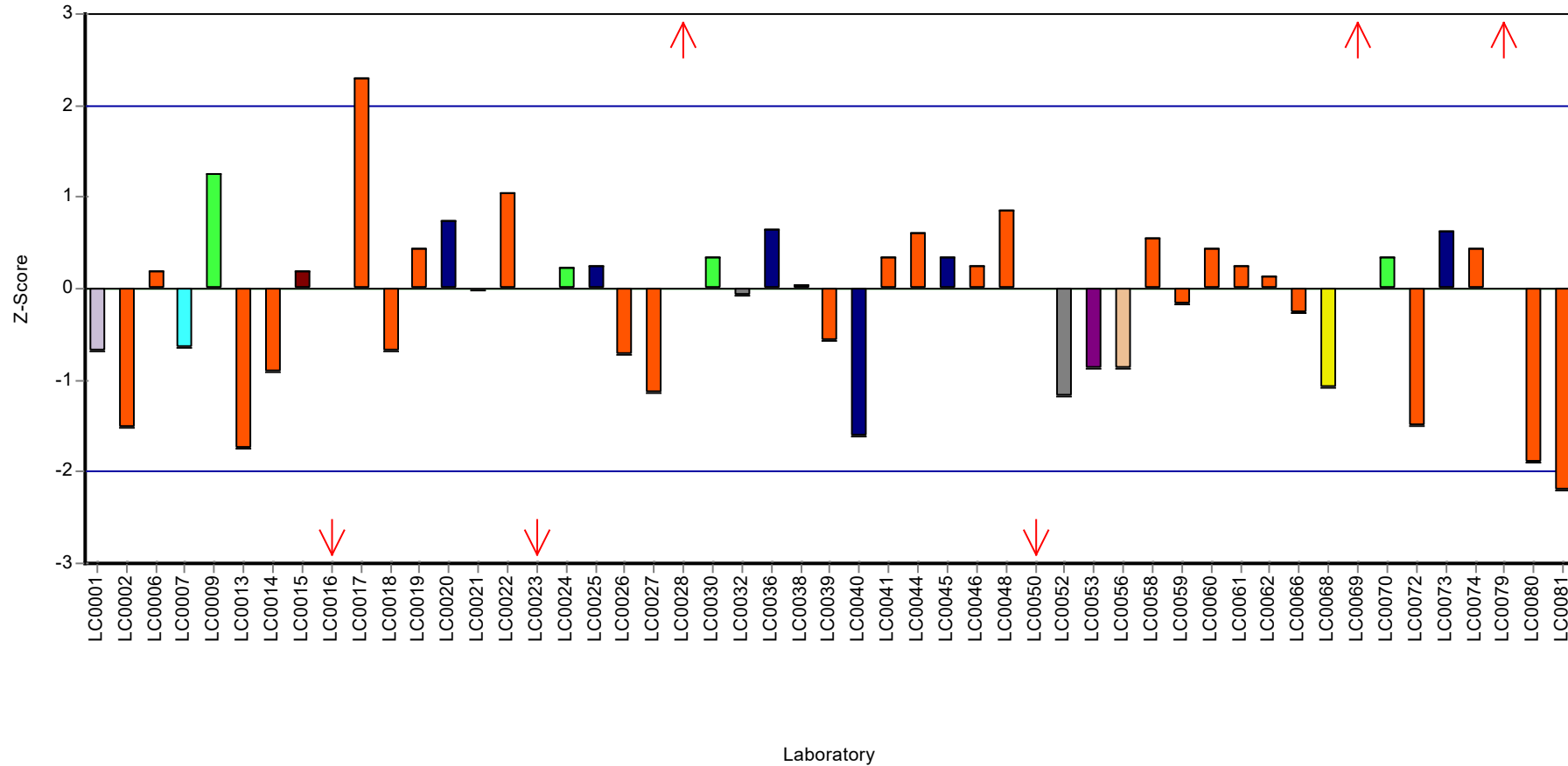
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Orthophosphate (as PO4)

Z-score



Parameter oriented report Nutrients/Major Ions N160 Sample: N160B, Parameter: Orthophosphate (as PO4)

Parameter oriented report

N160 B

Orthophosphate (as PO4)

Unit mg/l
Assigned value ± U (k=2) 0.109 ± 0.0055
Criterion 0.0174 (16 %)
Minimum - Maximum 0.071 - 0.15
Control test value ± U (k=2) < 0.15

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.11	0.019	101	0.06	
LC0002	0.0911	0.0019	83.6	-1.02	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.116	0.0081	106	0.4	
LC0007	0.1085	0.01627	99.6	-0.03	
LC0008	-	-	-	-	
LC0009	0.115	0.012	106	0.35	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.077	0.0206	70.7	-1.83	
LC0014	0.08	0.007	73.4	-1.66	
LC0015	0.118	0.0138	108	0.52	
LC0016	0.111	0.01	102	0.12	
LC0017	0.145	0.016	133	2.07	
LC0018	0.086	0.031	78.9	-1.32	
LC0019	0.111	0.018	102	0.12	
LC0020	0.125	0.007	115	0.92	
LC0021	0.113	0.023	104	0.23	
LC0022	0.119	0.003	109	0.58	
LC0023	0.026	0.003	23.9	-4.76	H
LC0024	0.111	0.0052	102	0.12	
LC0025	0.116	0.006	106	0.4	
LC0026	0.0829	0.002	76.1	-1.49	
LC0027	0.0741	0.0007	68	-2	
LC0028	2.36	0.06	2170	129	H
LC0029	-	-	-	-	
LC0030	0.11	0.005	101	0.06	
LC0031	0.0441	0.0028	40.5	-3.72	H
LC0032	0.11	0.011	101	0.06	
LC0033	-	-	-	-	
LC0034	< 1 (LOQ)	-	-	-	
LC0035	-	-	-	-	
LC0036	0.112	0.011	103	0.17	
LC0037	-	-	-	-	
LC0038	0.11	0.00836	101	0.06	
LC0039	0.085	0.006	78	-1.37	
LC0040	0.0966	0.001	88.7	-0.71	
LC0041	0.12	0.006	110	0.63	

Parameter oriented report Nutrients/Major Ions N160 Sample: N160B, Parameter: Orthophosphate (as PO4)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	-	-	-	-	
LC0044	0.1213	0.012	111	0.71	
LC0045	0.113	0.011	104	0.23	
LC0046	0.11	0.011	101	0.06	
LC0047	< 0.15 (LOQ)	-	-	-	
LC0048	0.144	0.02	132	2.01	
LC0049	-	-	-	-	
LC0050	0.09	0.006	82.6	-1.09	
LC0051	< 0.1 (LOQ)	-	-	-	
LC0052	0.1	0.05	91.8	-0.51	
LC0053	0.1048	0.0105	96.2	-0.24	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	0.08	0.06	73.4	-1.66	
LC0057	-	-	-	-	
LC0058	0.113	0.031	104	0.23	
LC0059	0.093	0.008	85.4	-0.92	
LC0060	0.119	0.005	109	0.58	
LC0061	0.113	0.0136	104	0.23	
LC0062	0.12	0.014	110	0.63	
LC0063	< 0.4 (LOQ)	-	-	-	
LC0064	-	-	-	-	
LC0065	-	-	-	-	
LC0066	0.12	0.016	110	0.63	
LC0067	< 0.15 (LOQ)	-	-	-	
LC0068	0.098	0.013	89.9	-0.63	
LC0069	0.15	0.01	138	2.35	
LC0070	0.112	0.0112	103	0.17	
LC0071	-	-	-	-	
LC0072	0.0981	0.00052	90	-0.62	
LC0073	0.12	0.00178	110	0.63	
LC0074	0.1185	0.005	109	0.55	
LC0075	< 0.2 (LOQ)	-	-	-	
LC0076	-	-	-	-	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	0.14	0.014	128	1.78	
LC0080	0.087	0.0005	79.9	-1.26	
LC0081	0.071	0.009	65.2	-2.18	
LC0082	-	-	-	-	

Characteristics of parameter

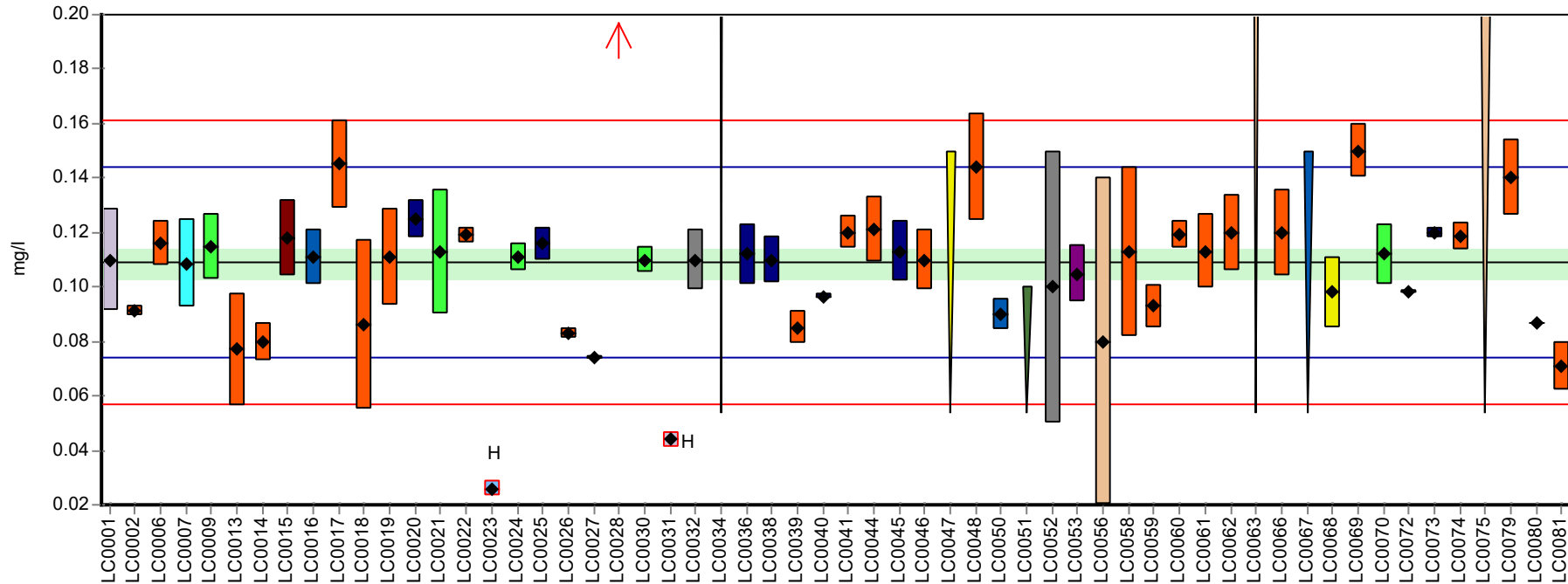
	all results	without outliers	Unit
Mean ± CI (99%)	0.148 ± 0.13	0.108 ± 0.00774	mg/l
Minimum	0.026	0.071	mg/l
Maximum	2.36	0.15	mg/l
Standard deviation	0.314	0.0181	mg/l
rel. standard deviation	211	16.7	%
n	52	49	-

Parameter oriented report Nutrients/Major Ions N160

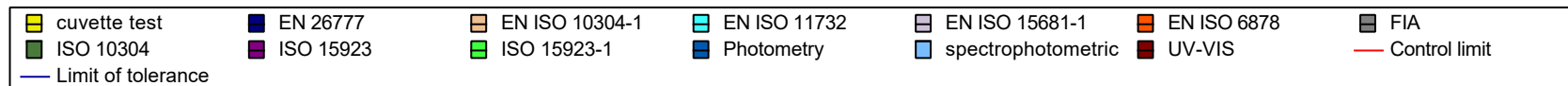
Sample: N160B, Parameter: Orthophosphate (as PO4)

Graphical presentation of results

Results



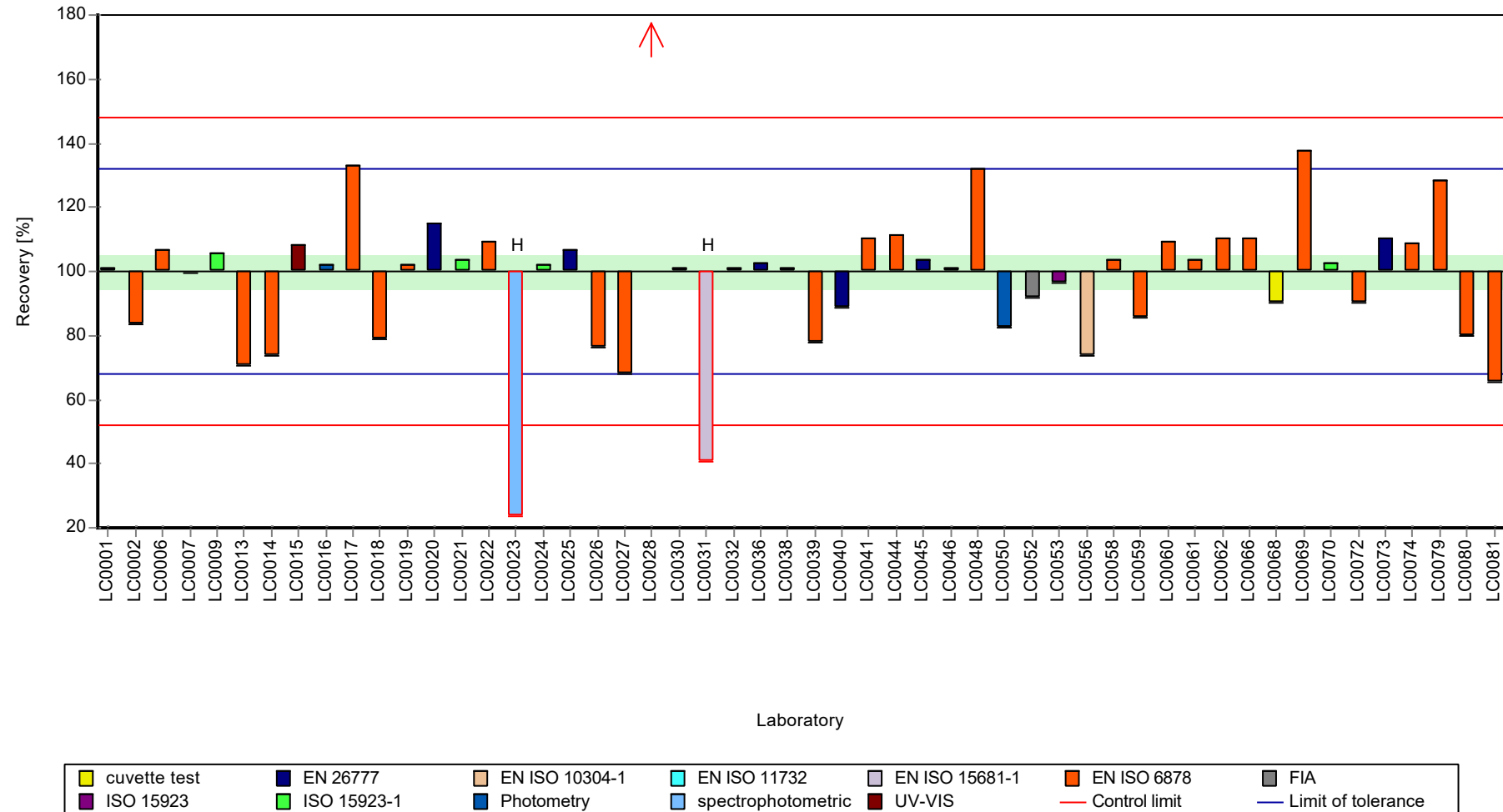
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Orthophosphate (as PO4)

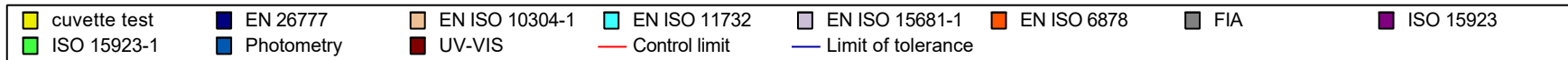
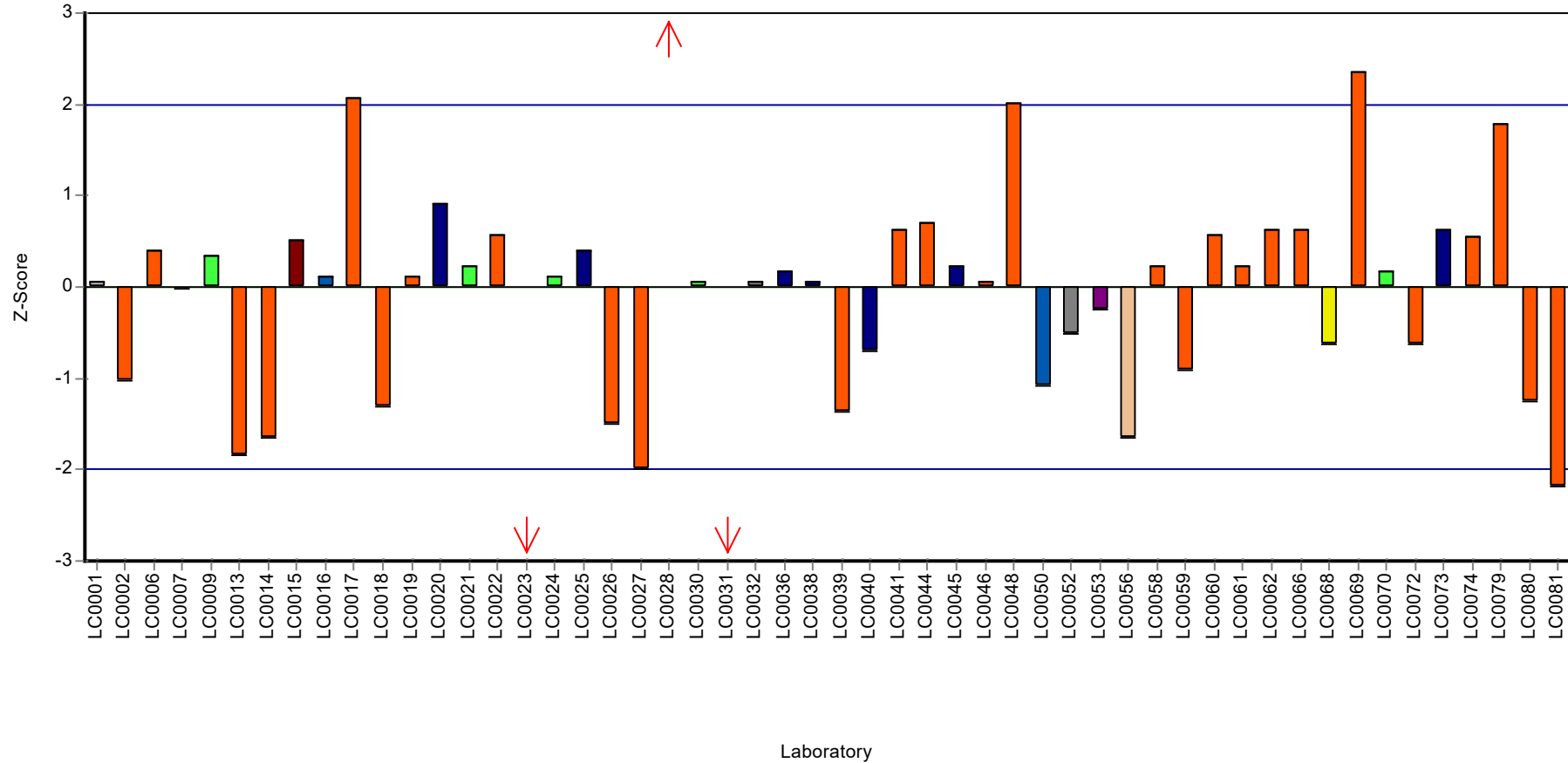
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Orthophosphate (as PO4)

Z-score



Parameter oriented report

N160 A

pH-value

Unit	-
Assigned value ± U (k=2)	7.69 ± 0.0265
Criterion	0.154 (2 %)
Minimum - Maximum	7.47 - 8.01
Control test value ± U (k=2)	7.660 ± 0.0383

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	7.57	0.76	98.5	-0.76	
LC0002	7.716	0.05	100	0.19	
LC0003	7.7	0.14	100	0.09	
LC0004	-	-	-	-	
LC0005	7.77	0.17	101	0.55	
LC0006	7.62	0.23	99.1	-0.43	
LC0007	7.78	0.3888	101	0.61	
LC0008	7.7	0.1	100	0.09	
LC0009	7.47	0.1	97.2	-1.41	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	7.14	0.1	92.9	-3.55	H
LC0013	-	-	-	-	
LC0014	7.64	0.01	99.4	-0.3	
LC0015	7.78	0.0104	101	0.61	
LC0016	7.86	0.004	102	1.13	
LC0017	7.81	0.18	102	0.81	
LC0018	7.57	0.1	98.5	-0.76	
LC0019	7.69	0.1	100	0.02	
LC0020	7.7	0.03	100	0.09	
LC0021	7.82	0.78	102	0.87	
LC0022	7.59	0.019	98.7	-0.63	
LC0023	7.73	0.25	101	0.28	
LC0024	7.73	0.046	101	0.28	
LC0025	7.73	0.3	101	0.28	
LC0026	7.88	0.05	103	1.26	
LC0027	7.7	0.029	100	0.09	
LC0028	7.88	0.04	103	1.26	
LC0029	7.6	0.02	98.9	-0.56	
LC0030	8.01	0.03	104	2.11	
LC0031	7.63	0.04	99.3	-0.37	
LC0032	7.7	0.11	100	0.09	
LC0033	7.59	0.27	98.7	-0.63	
LC0034	7.79	0.1	101	0.68	
LC0035	7.67	0.16	99.8	-0.1	
LC0036	7.61	0.2	99	-0.5	
LC0037	-	-	-	-	
LC0038	7.62	0.12	99.1	-0.43	
LC0039	7.7	0.1	100	0.09	
LC0040	7.85	0.1	102	1.07	
LC0041	7.53	0.02	98	-1.02	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: pH-value

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	7.68	0.04	99.9	-0.04	
LC0043	7.69	0.01	100	0.02	
LC0044	7.65	0.1	99.5	-0.23	
LC0045	7.8	0.2	101	0.74	
LC0046	7.94	0.79	103	1.65	
LC0047	7.6	0.08	98.9	-0.56	
LC0048	-	-	-	-	
LC0049	7.79	0.03	101	0.68	
LC0050	7.52	0.03	97.8	-1.08	
LC0051	7.75	0.4	101	0.41	
LC0052	7.6	0.1	98.9	-0.56	
LC0053	7.626	0.03	99.2	-0.39	
LC0054	7.65	0.077	99.5	-0.23	
LC0055	-	-	-	-	
LC0056	8.38	0.2	109	4.51	H
LC0057	-	-	-	-	
LC0058	7.7	0.1	100	0.09	
LC0059	7.7	0.3	100	0.09	
LC0060	7.65	0.2	99.5	-0.23	
LC0061	7.6	0.46	98.9	-0.56	
LC0062	7.67	0.046	99.8	-0.1	
LC0063	7.67	0.15	99.8	-0.1	
LC0064	7.7	0.2	100	0.09	
LC0065	7.64	0.2	99.4	-0.3	
LC0066	7.5	0.2	97.6	-1.21	
LC0067	7.52	0.08	97.8	-1.08	
LC0068	7.6	0.44	98.9	-0.56	
LC0069	7.49	0.2	97.4	-1.28	
LC0070	7.8	0.01	101	0.74	
LC0071	7.75	0.061	101	0.41	
LC0072	7.74	0.017	101	0.35	
LC0073	7.73	0.0773	101	0.28	
LC0074	-	-	-	-	
LC0075	7.835	0.08	102	0.97	
LC0076	7.7	0.15	100	0.09	
LC0077	-	-	-	-	
LC0078	7.67	0.2	99.8	-0.1	
LC0079	7.55	0.23	98.2	-0.89	
LC0080	7.61	0.05	99	-0.5	
LC0081	7.49	0.1	97.4	-1.28	
LC0082	-	-	-	-	

Characteristics of parameter

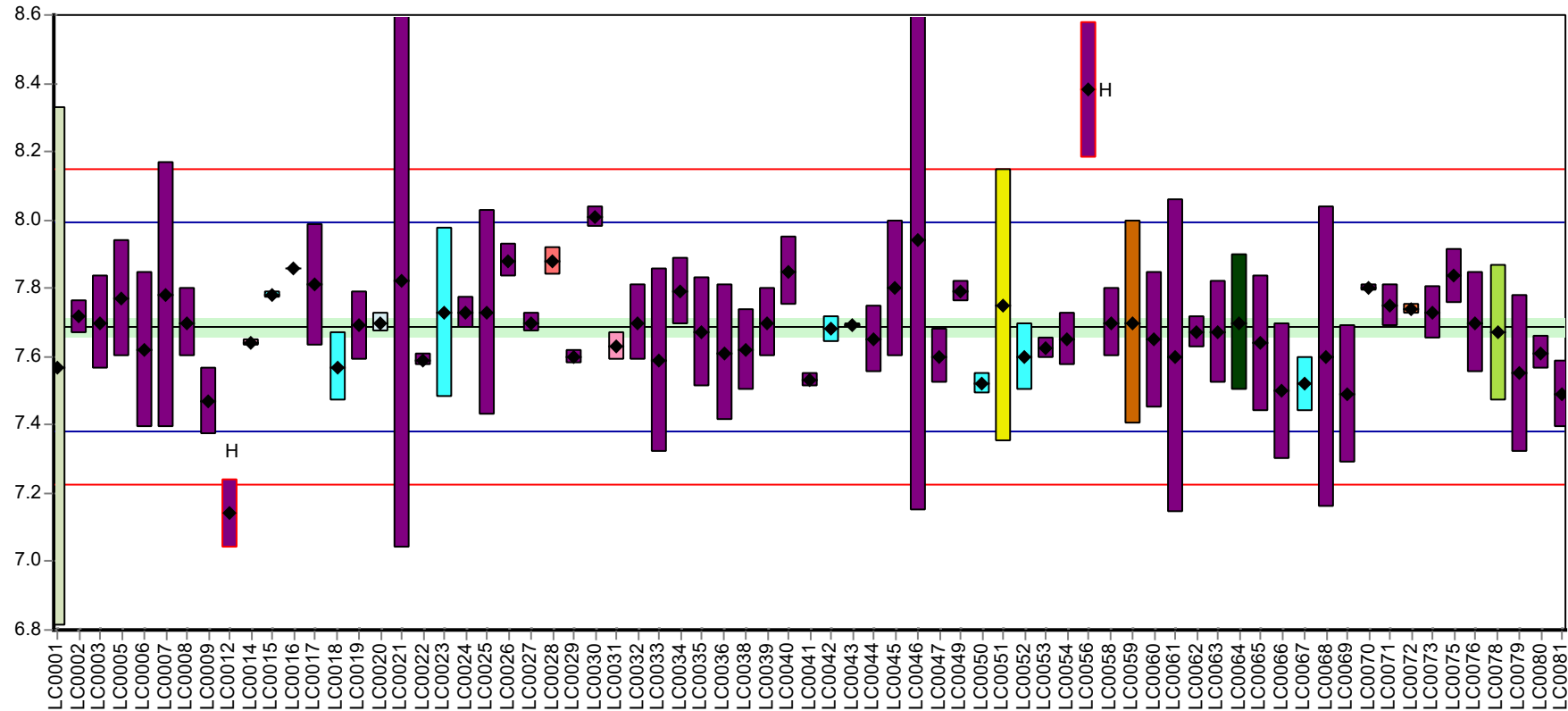
	all results	without outliers	Unit
Mean ± CI (99%)	7.69 ± 0.0539	7.69 ± 0.0398	-
Minimum	7.14	7.47	-
Maximum	8.38	8.01	-
Standard deviation	0.151	0.11	-
rel. standard deviation	1.97	1.43	%
n	71	69	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: pH-value

Graphical presentation of results

Results



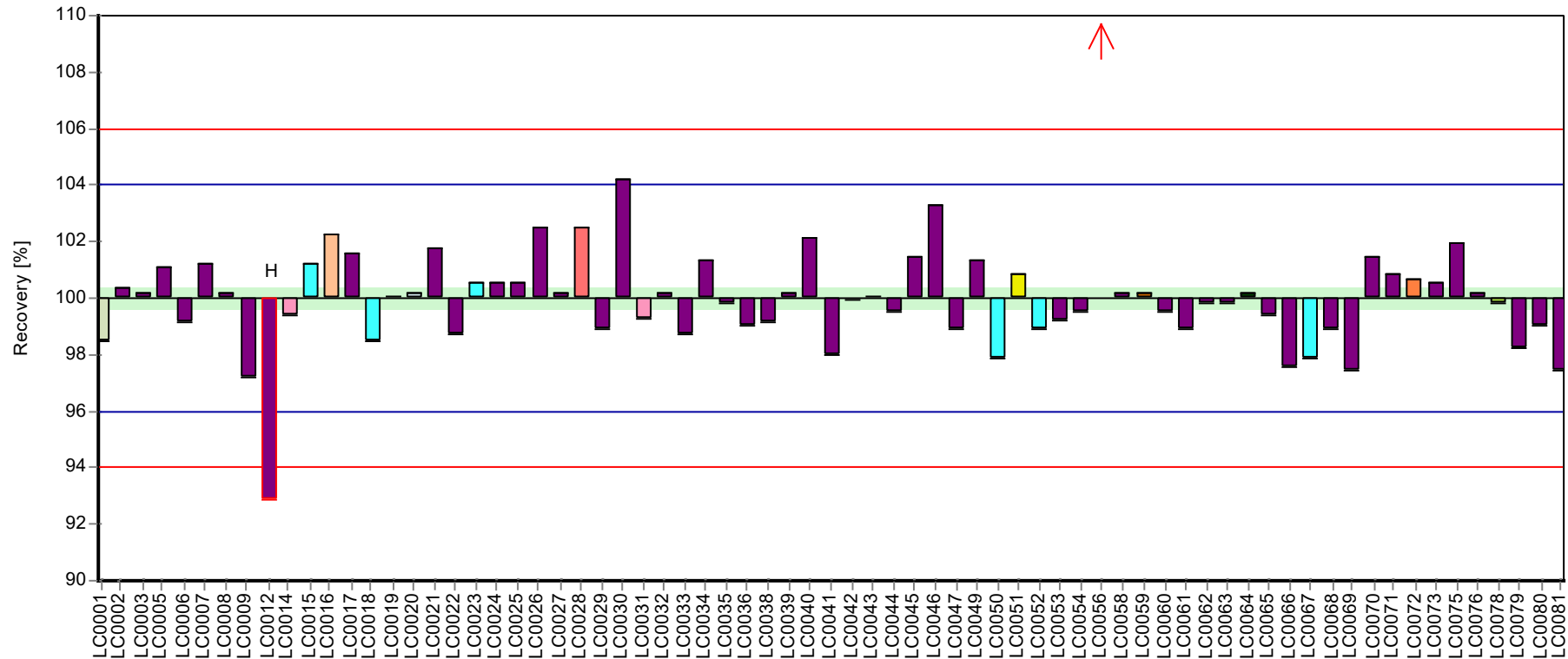
Laboratory

DIN 38404	DIN 38404 C5	DIN 38404-5	DIN 38409-6	DIN 51369	EN 27888	EN ISO 10523
housemethod (SOP)	ISO 10390	pH meter	physically	Potentiometry	Control limit	Limit of tolerance

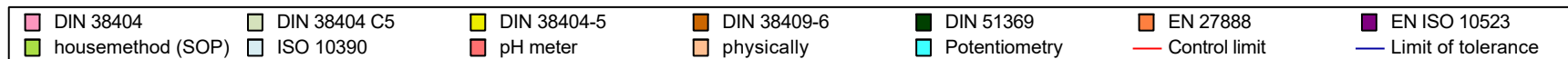
Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: pH-value

Recovery rate



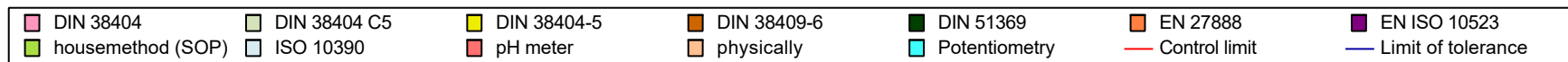
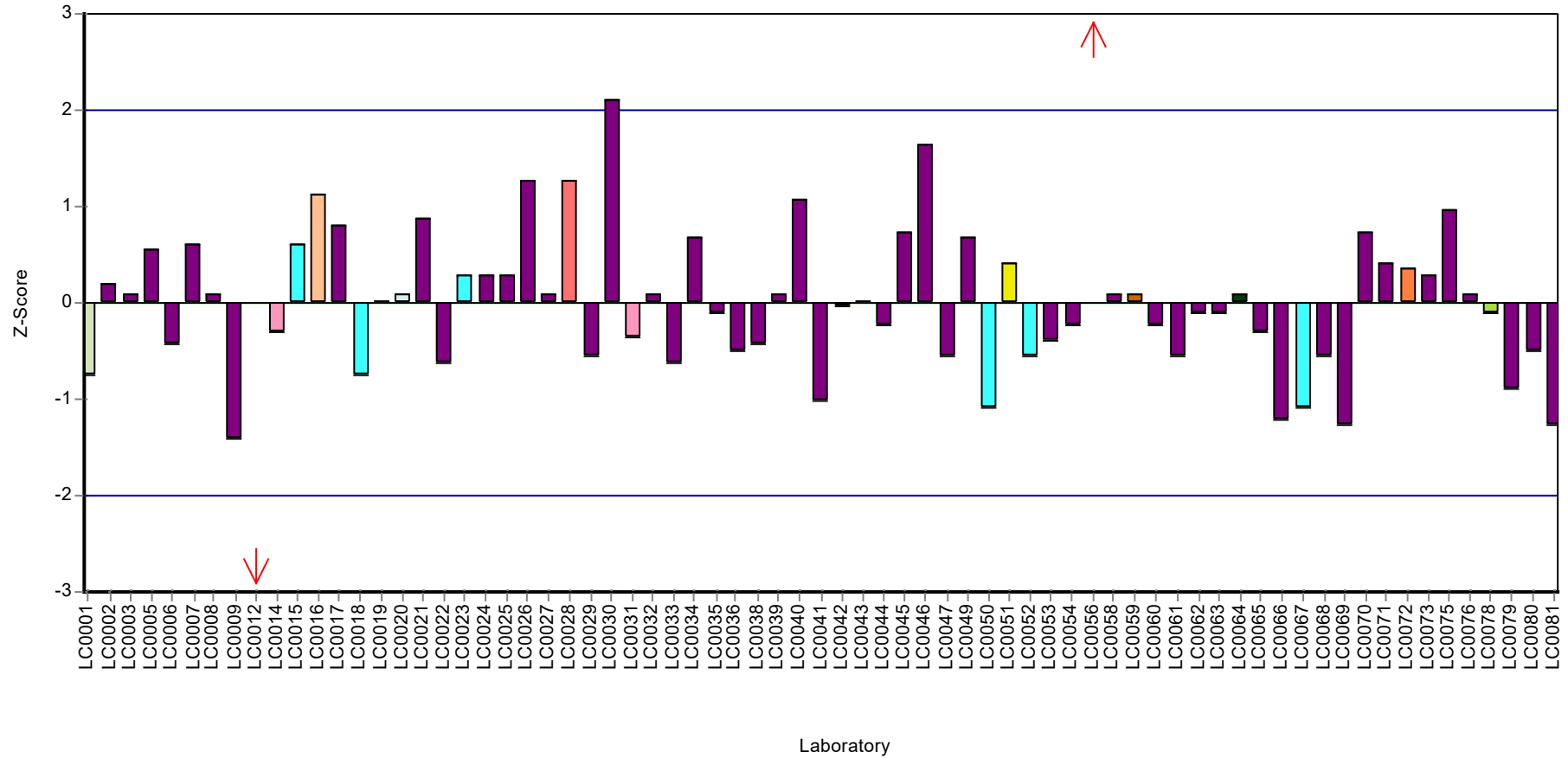
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: pH-value

Z-score



Parameter oriented report

N160 B

pH-value

Unit	-
Assigned value ± U (k=2)	8.07 ± 0.019
Criterion	0.161 (2 %)
Minimum - Maximum	7.9 - 8.25
Control test value ± U (k=2)	8.140 ± 0.0407

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	7.96	0.8	98.6	-0.68	
LC0002	7.997	0.05	99.1	-0.45	
LC0003	8.04	0.15	99.6	-0.18	
LC0004	-	-	-	-	
LC0005	8.13	0.18	101	0.37	
LC0006	8.08	0.24	100	0.06	
LC0007	8.08	0.4041	100	0.06	
LC0008	8.1	0.1	100	0.19	
LC0009	7.97	0.1	98.8	-0.62	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	7.75	0.1	96	-1.98	H
LC0013	-	-	-	-	
LC0014	8.08	0.01	100	0.06	
LC0015	8.15	0.0109	101	0.5	
LC0016	8.11	0.004	100	0.25	
LC0017	8.15	0.19	101	0.5	
LC0018	8.01	0.1	99.3	-0.37	
LC0019	8.11	0.1	100	0.25	
LC0020	8.15	0.03	101	0.5	
LC0021	8.18	0.82	101	0.68	
LC0022	8.02	0.02	99.4	-0.31	
LC0023	8.06	0.25	99.9	-0.06	
LC0024	8.03	0.048	99.5	-0.25	
LC0025	8.04	0.3	99.6	-0.18	
LC0026	8.23	0.05	102	0.99	
LC0027	8.07	0.02	100	0	
LC0028	8.25	0.01	102	1.12	
LC0029	7.9	0.02	97.9	-1.05	
LC0030	8.22	0.03	102	0.93	
LC0031	8.19	0.04	101	0.74	
LC0032	8.08	0.11	100	0.06	
LC0033	7.95	0.28	98.5	-0.74	
LC0034	8.21	0.1	102	0.87	
LC0035	8.07	0.17	100	0	
LC0036	8.07	0.2	100	0	
LC0037	-	-	-	-	
LC0038	8.06	0.12	99.9	-0.06	
LC0039	8	0.1	99.1	-0.43	
LC0040	8.15	0.1	101	0.5	
LC0041	7.96	0.02	98.6	-0.68	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: pH-value

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	8.08	0.04	100	0.06	
LC0043	8.03	0.01	99.5	-0.25	
LC0044	8.05	0.1	99.8	-0.12	
LC0045	8.2	0.2	102	0.81	
LC0046	8.12	0.81	101	0.31	
LC0047	8.07	0.08	100	0	
LC0048	-	-	-	-	
LC0049	8.21	0.03	102	0.87	
LC0050	7.91	0.04	98	-0.99	
LC0051	8.08	0.4	100	0.06	
LC0052	7.92	0.1	98.1	-0.93	
LC0053	7.995	0.03	99.1	-0.46	
LC0054	8.05	0.085	99.8	-0.12	
LC0055	-	-	-	-	
LC0056	8.49	0.2	105	2.6	H
LC0057	-	-	-	-	
LC0058	8.1	0.1	100	0.19	
LC0059	8.1	0.3	100	0.19	
LC0060	8.04	0.2	99.6	-0.18	
LC0061	8	0.48	99.1	-0.43	
LC0062	8.09	0.048	100	0.13	
LC0063	8.07	0.15	100	0	
LC0064	8.05	0.2	99.8	-0.12	
LC0065	8.12	0.2	101	0.31	
LC0066	8	0.2	99.1	-0.43	
LC0067	8.04	0.08	99.6	-0.18	
LC0068	8	0.46	99.1	-0.43	
LC0069	7.97	0.2	98.8	-0.62	
LC0070	8.07	0.01	100	0	
LC0071	8.105	0.061	100	0.22	
LC0072	8.11	0.018	100	0.25	
LC0073	8.18	0.0818	101	0.68	
LC0074	-	-	-	-	
LC0075	8.165	0.08	101	0.59	
LC0076	8.09	0.15	100	0.13	
LC0077	-	-	-	-	
LC0078	8.1	0.2	100	0.19	
LC0079	7.78	0.23	96.4	-1.8	H
LC0080	8.12	0.02	101	0.31	
LC0081	7.96	0.1	98.6	-0.68	
LC0082	-	-	-	-	

Characteristics of parameter

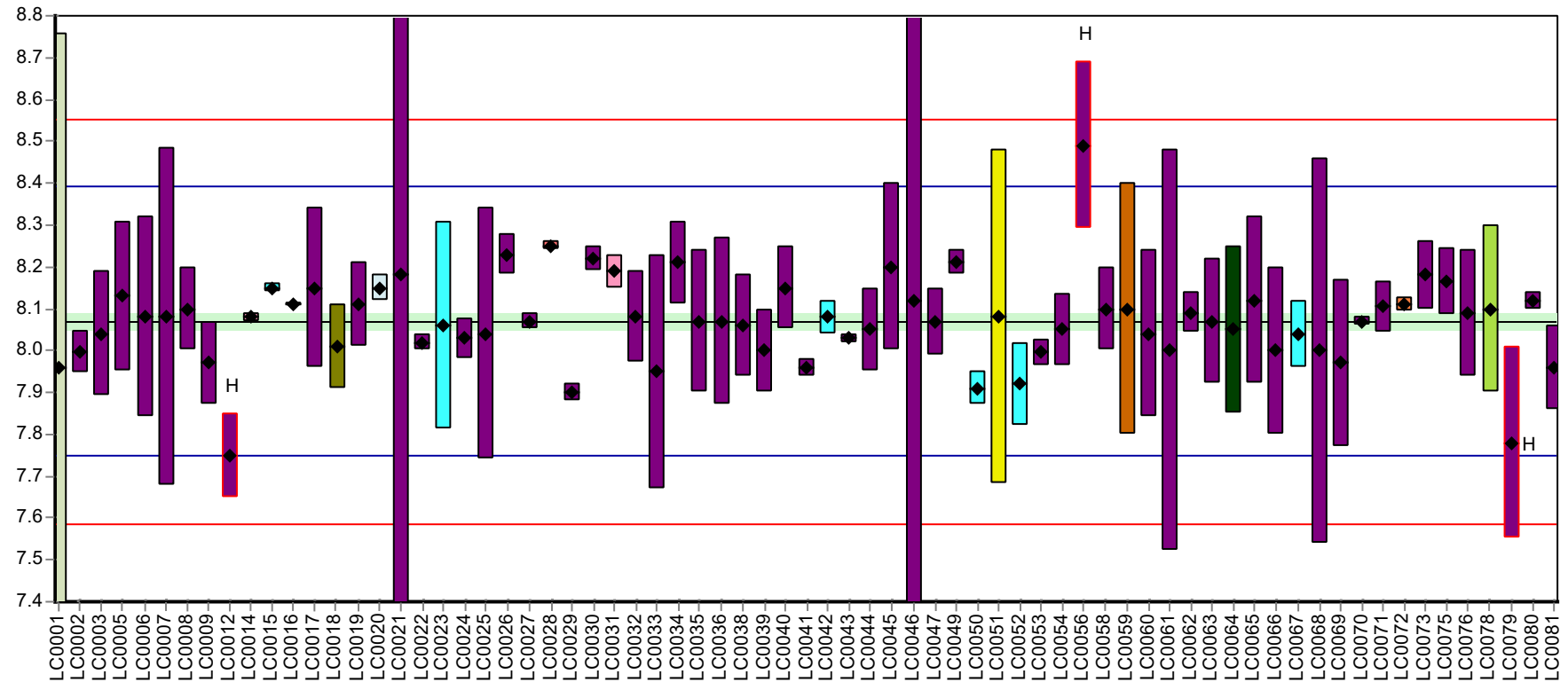
	all results	without outliers	Unit
Mean ± CI (99%)	8.07 ± 0.0378	8.07 ± 0.0289	-
Minimum	7.75	7.9	-
Maximum	8.49	8.25	-
Standard deviation	0.106	0.0795	-
rel. standard deviation	1.31	0.984	%
n	71	68	-

Parameter oriented report Nutrients/Major Ions N160

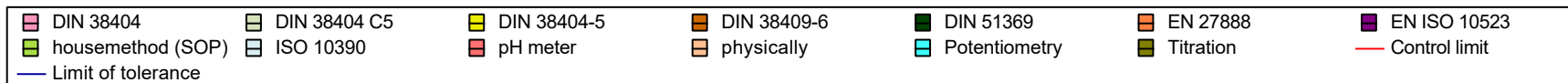
Sample: N160B, Parameter: pH-value

Graphical presentation of results

Results



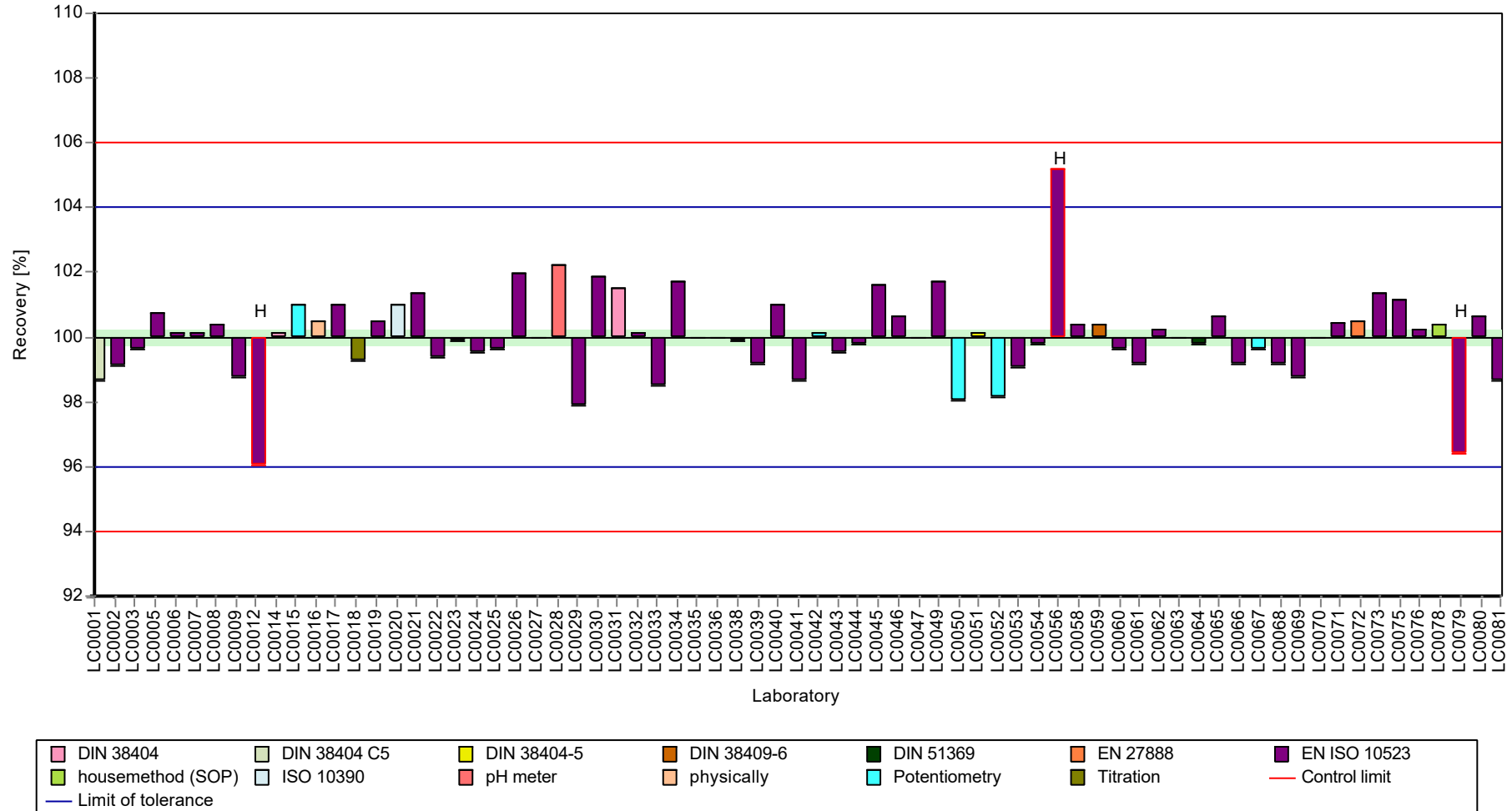
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: pH-value

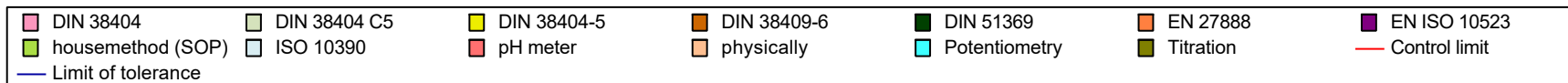
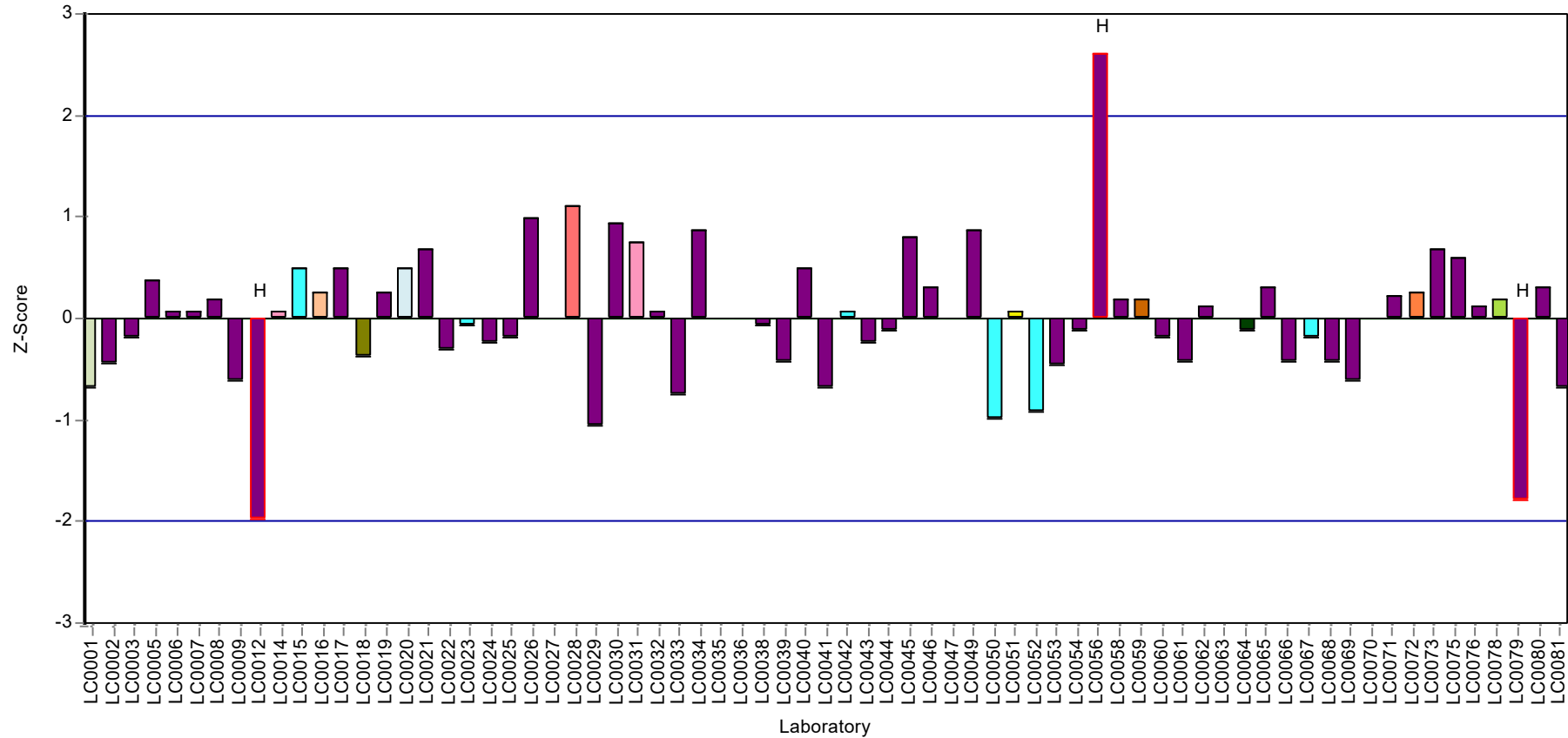
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: pH-value

Z-score



Parameter oriented report

N160 A

Potassium

Unit	mg/l
Assigned value ± U (k=2)	5.32 ± 0.0504
Criterion	0.277 (5.2 %)
Minimum - Maximum	4.95 - 5.75
Control test value ± U (k=2)	5.030 ± 0.503

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	5.175	0.155	97.2	-0.54	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	5.41	0.54	102	0.31	
LC0006	5.03	0.36	94.5	-1.06	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	5.29	0.27	99.4	-0.12	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	5.24	0.18	98.4	-0.3	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	5.7	0.6	107	1.36	
LC0019	5.33	0.57	100	0.02	
LC0020	5.57	0.6	105	0.89	
LC0021	5.224	1.045	98.1	-0.36	
LC0022	-	-	-	-	
LC0023	5.36	0.32	101	0.13	
LC0024	5.15	0.2	96.7	-0.63	
LC0025	5.11	0.41	96	-0.77	
LC0026	5.57	0.02	105	0.89	
LC0027	-	-	-	-	
LC0028	7.15	1.66	134	6.6	H
LC0029	-	-	-	-	
LC0030	5.33	0.5	100	0.02	
LC0031	5.42	0.27	102	0.35	
LC0032	5.15	0.515	96.7	-0.63	
LC0033	-	-	-	-	
LC0034	5.57	0.56	105	0.89	
LC0035	5.118	0.752	96.1	-0.74	
LC0036	5.14	0.51	96.5	-0.66	
LC0037	-	-	-	-	
LC0038	5.45	2.59	102	0.46	
LC0039	5.33	1.1	100	0.02	
LC0040	5.35	0.015	100	0.09	
LC0041	5.39	0.5	101	0.24	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Potassium

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	5.22	0.2	98.1	-0.38	
LC0043	-	-	-	-	
LC0044	5.214	0.51	97.9	-0.4	
LC0045	5.422	0.54	102	0.35	
LC0046	2.45	0.245	46	-10.4	H
LC0047	5.67	0.29	107	1.25	
LC0048	-	-	-	-	
LC0049	5.06	0.253	95	-0.95	
LC0050	5.38	0.31	101	0.2	
LC0051	5.75	1	108	1.54	
LC0052	5.35	0.8	100	0.09	
LC0053	5.3	0.472	99.6	-0.09	
LC0054	-	-	-	-	
LC0055	5.05	0.46	94.9	-0.99	
LC0056	1.94	0.1	36.4	-12.2	H
LC0057	5.2	0.3	97.7	-0.45	
LC0058	5.2	0.86	97.7	-0.45	
LC0059	5.3	0.6	99.6	-0.09	
LC0060	5.15	0.15	96.7	-0.63	
LC0061	5.23	0.523	98.2	-0.34	
LC0062	5.45	0.55	102	0.46	
LC0063	4.95	0.3	93	-1.35	
LC0064	-	-	-	-	
LC0065	5.47	0.43	103	0.53	
LC0066	5.4	0.2	101	0.28	
LC0067	5.2	0.5	97.7	-0.45	
LC0068	5.21	0.67	97.9	-0.41	
LC0069	5.26	0.94	98.8	-0.23	
LC0070	-	-	-	-	
LC0071	5.359	0.24	101	0.13	
LC0072	5.75	0.351	108	1.54	
LC0073	5.44	0.247	102	0.42	
LC0074	-	-	-	-	
LC0075	5.4	0.45	101	0.28	
LC0076	5.338	0.54	100	0.05	
LC0077	5.5	0.5434	103	0.64	
LC0078	-	-	-	-	
LC0079	9.11	1.37	171	13.7	H
LC0080	5.205	0.022	97.8	-0.43	
LC0081	12.3	1	231	25.2	H
LC0082	-	-	-	-	

Characteristics of parameter

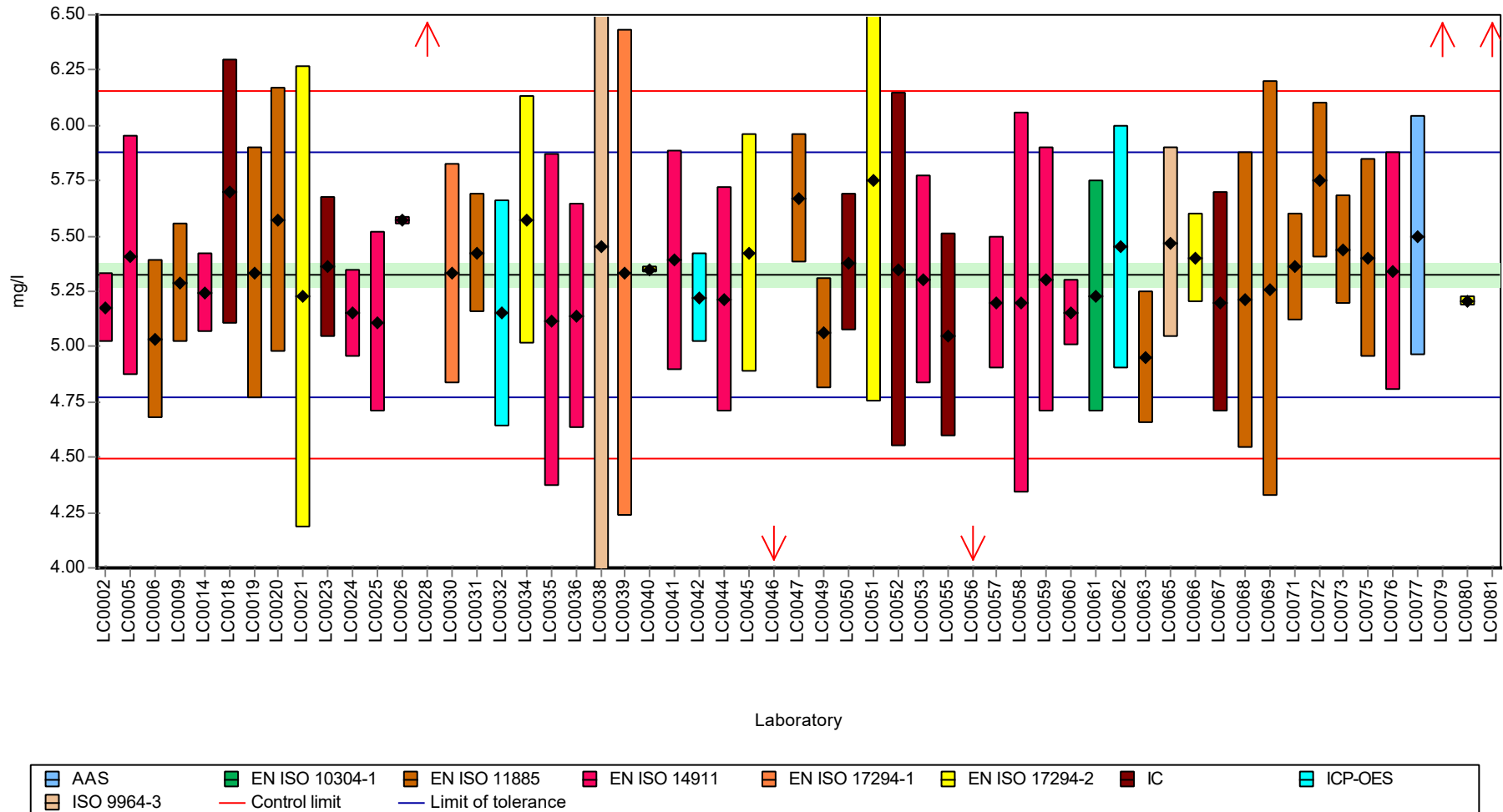
	all results	without outliers	Unit
Mean ± CI (99%)	5.43 ± 0.495	5.32 ± 0.0757	mg/l
Minimum	1.94	4.95	mg/l
Maximum	12.3	5.75	mg/l
Standard deviation	1.25	0.182	mg/l
rel. standard deviation	22.9	3.42	%
n	57	52	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Potassium

Graphical presentation of results

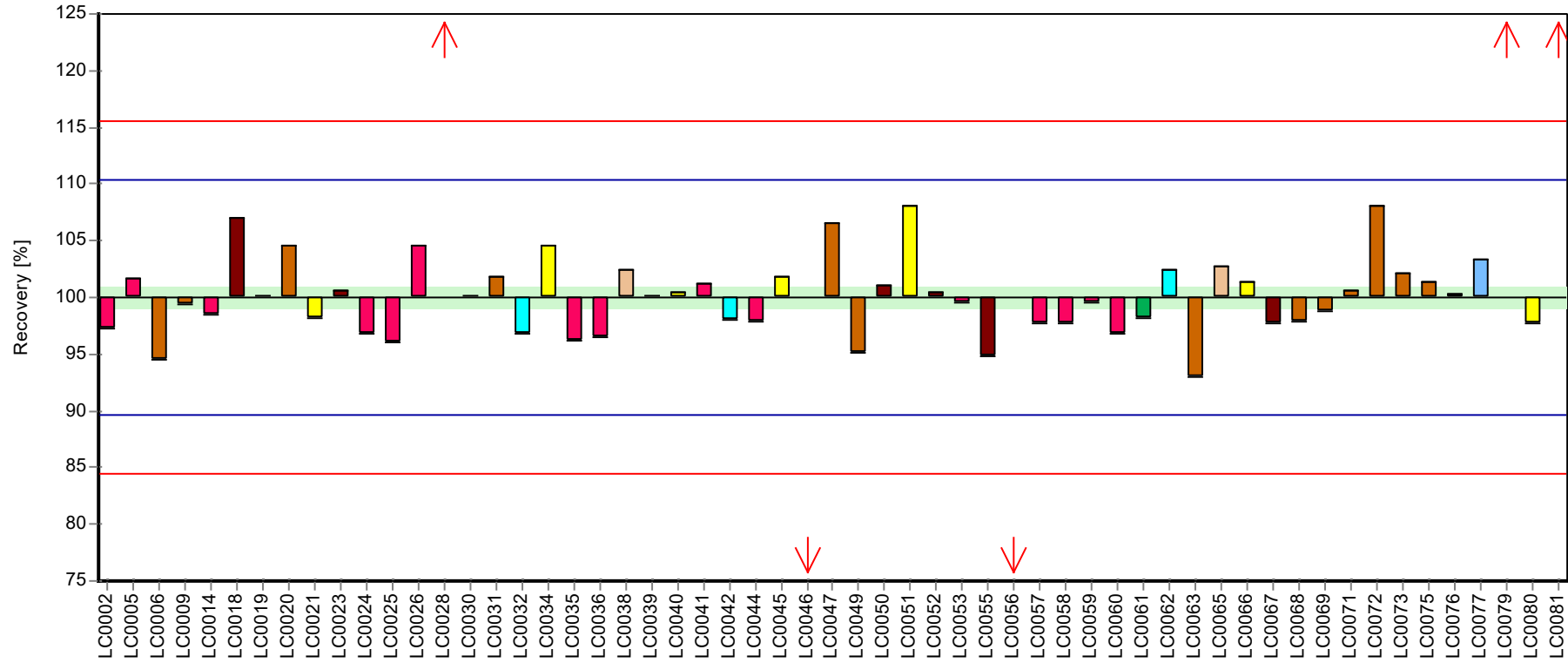
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Potassium

Recovery rate



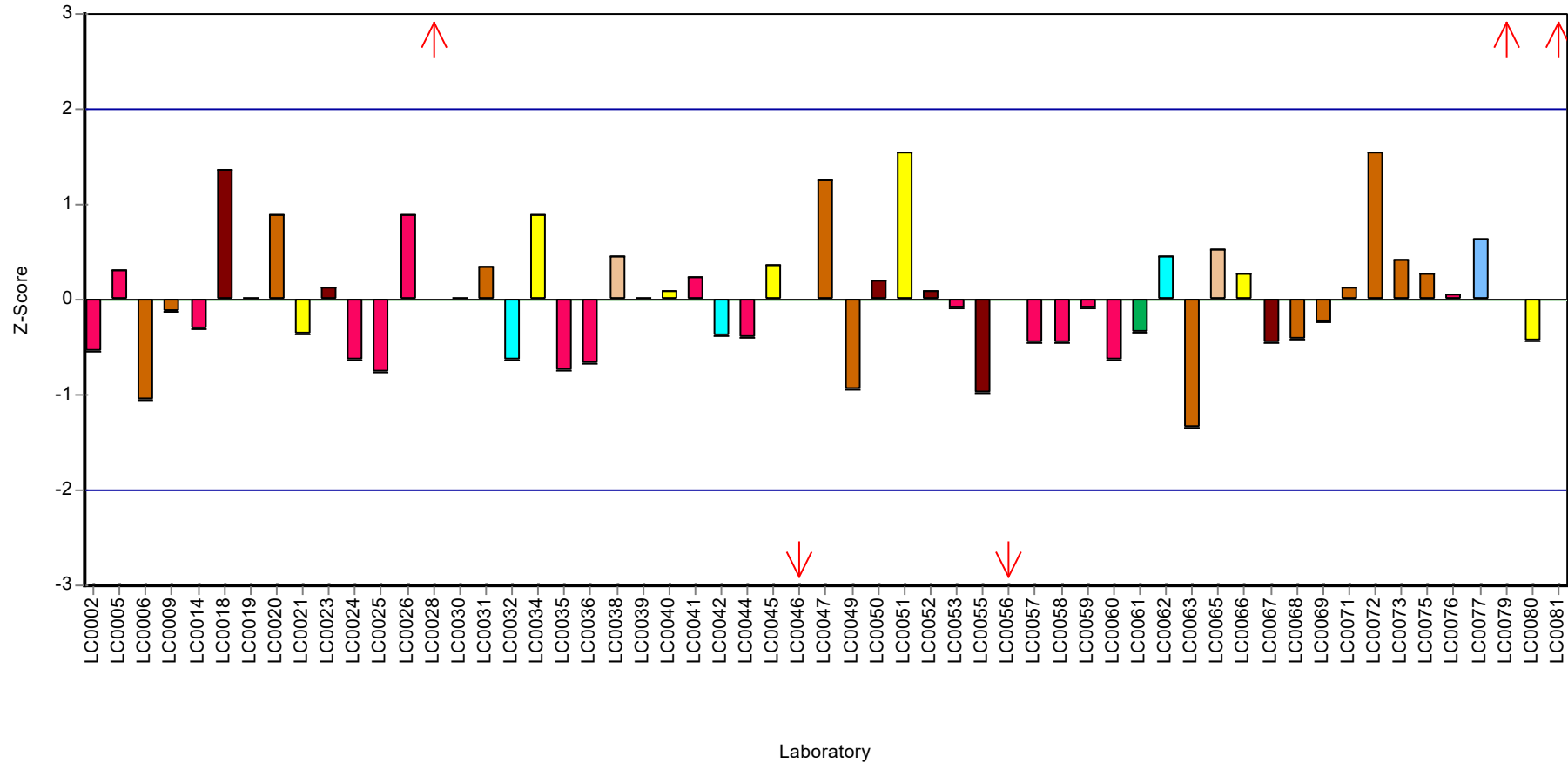
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Potassium

Z-score



Parameter oriented report

N160 B

Potassium

Unit	mg/l
Assigned value ± U (k=2)	2.18 ± 0.0235
Criterion	0.113 (5.2 %)
Minimum - Maximum	2.03 - 2.38
Control test value ± U (k=2)	2.170 ± 0.217

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	2.153	0.065	98.7	-0.24	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	2.22	0.22	102	0.35	
LC0006	2.11	0.15	96.8	-0.62	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	2.2	0.11	101	0.17	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	2.21	0.076	101	0.26	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	2.2	0.24	101	0.17	
LC0019	2.17	0.23	99.5	-0.09	
LC0020	2.34	0.26	107	1.41	
LC0021	2.149	0.43	98.6	-0.28	
LC0022	-	-	-	-	
LC0023	2.18	0.13	100	0.00	
LC0024	2.13	0.084	97.7	-0.45	
LC0025	2.07	0.17	94.9	-0.97	
LC0026	2.18	0.02	100	0.00	
LC0027	-	-	-	-	
LC0028	2.37	0.1	109	1.67	
LC0029	-	-	-	-	
LC0030	2.22	0.3	102	0.35	
LC0031	2.1	0.11	96.3	-0.71	
LC0032	<2.46 (LOD)	-	-	-	
LC0033	-	-	-	-	
LC0034	2.38	0.24	109	1.76	
LC0035	2.084	0.306	95.6	-0.85	
LC0036	2.21	0.22	101	0.26	
LC0037	-	-	-	-	
LC0038	2.15	1.02	98.6	-0.27	
LC0039	2.25	0.5	103	0.61	
LC0040	2.21	0.006	101	0.26	
LC0041	2.22	0.21	102	0.35	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Potassium

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	2.1	0.2	96.3	-0.71	
LC0043	-	-	-	-	
LC0044	2.129	0.21	97.6	-0.45	
LC0045	2.21	0.22	101	0.26	
LC0046	1	0.1	45.9	-10.4	H
LC0047	2.28	0.12	105	0.88	
LC0048	-	-	-	-	
LC0049	2.03	0.102	93.1	-1.33	
LC0050	2.25	0.16	103	0.61	
LC0051	2.25	0.5	103	0.61	
LC0052	2.08	0.3	95.4	-0.89	
LC0053	2.12	0.189	97.2	-0.53	
LC0054	-	-	-	-	
LC0055	2.118	0.18	97.1	-0.55	
LC0056	0.792	0.1	36.3	-12.2	H
LC0057	2.06	0.15	94.5	-1.06	
LC0058	2.1	0.35	96.3	-0.71	
LC0059	2.31	0.25	106	1.14	
LC0060	2.11	0.05	96.8	-0.62	
LC0061	2.09	0.209	95.9	-0.8	
LC0062	2.19	0.22	100	0.08	
LC0063	2.11	0.5	96.8	-0.62	
LC0064	-	-	-	-	
LC0065	2.31	0.18	106	1.14	
LC0066	2.2	0.1	101	0.17	
LC0067	2.14	0.21	98.1	-0.36	
LC0068	1.85	0.24	84.8	-2.91	H
LC0069	2.11	0.38	96.8	-0.62	
LC0070	-	-	-	-	
LC0071	2.225	0.16	102	0.39	
LC0072	2.27	0.138	104	0.79	
LC0073	2.29	0.0306	105	0.97	
LC0074	-	-	-	-	
LC0075	2.21	0.18	101	0.26	
LC0076	2.062	0.21	94.6	-1.04	
LC0077	2.25	0.2223	103	0.61	
LC0078	-	-	-	-	
LC0079	2.92	0.44	134	6.52	H
LC0080	2.092	0.0499	95.9	-0.78	
LC0081	1.7	0.3	78	-4.24	H
LC0082	-	-	-	-	

Characteristics of parameter

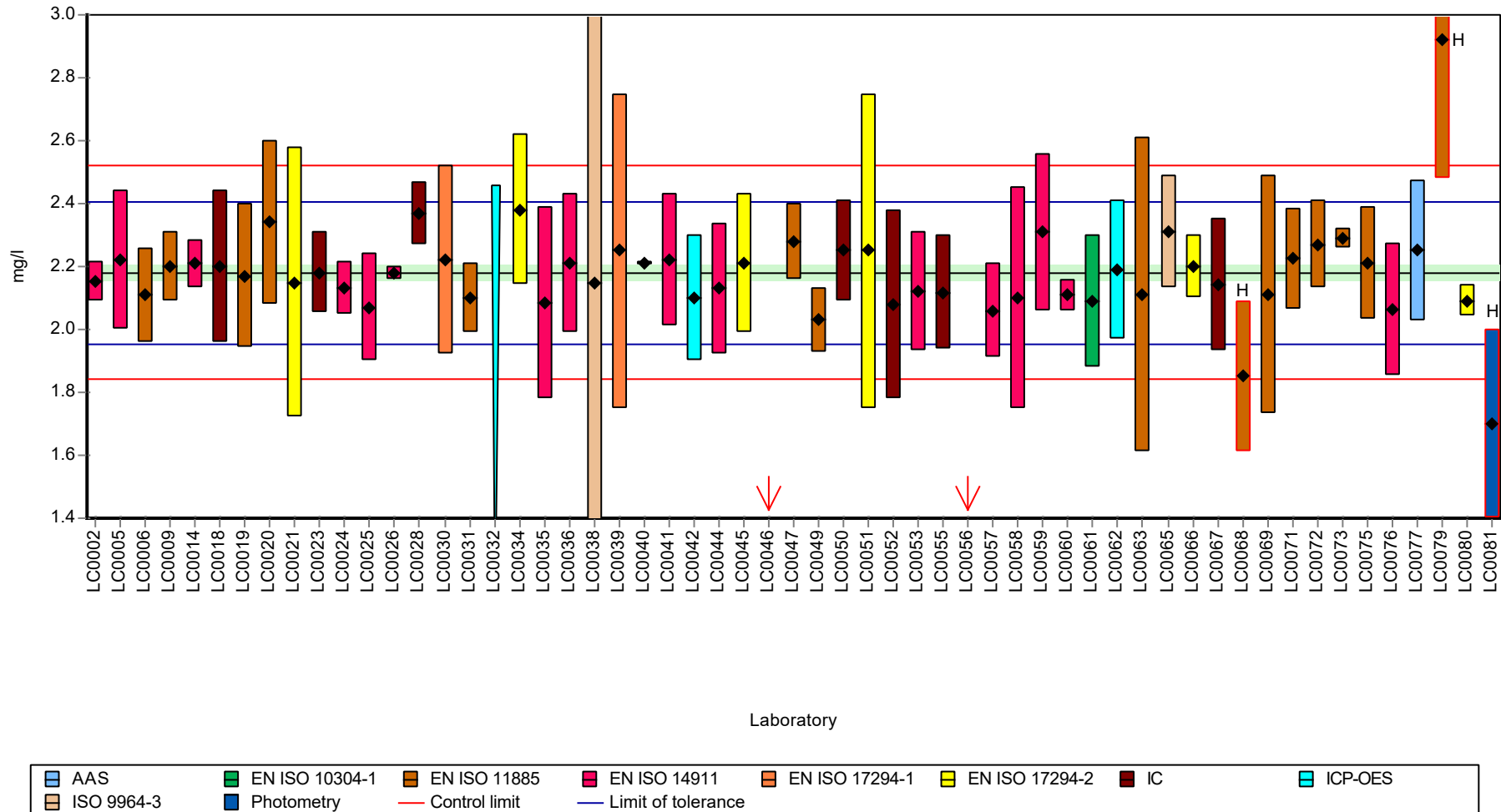
	all results	without outliers	Unit
Mean ± CI (99%)	2.13 ± 0.114	2.18 ± 0.0352	mg/l
Minimum	0.792	2.03	mg/l
Maximum	2.92	2.38	mg/l
Standard deviation	0.284	0.0839	mg/l
rel. standard deviation	13.3	3.85	%
n	56	51	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Potassium

Graphical presentation of results

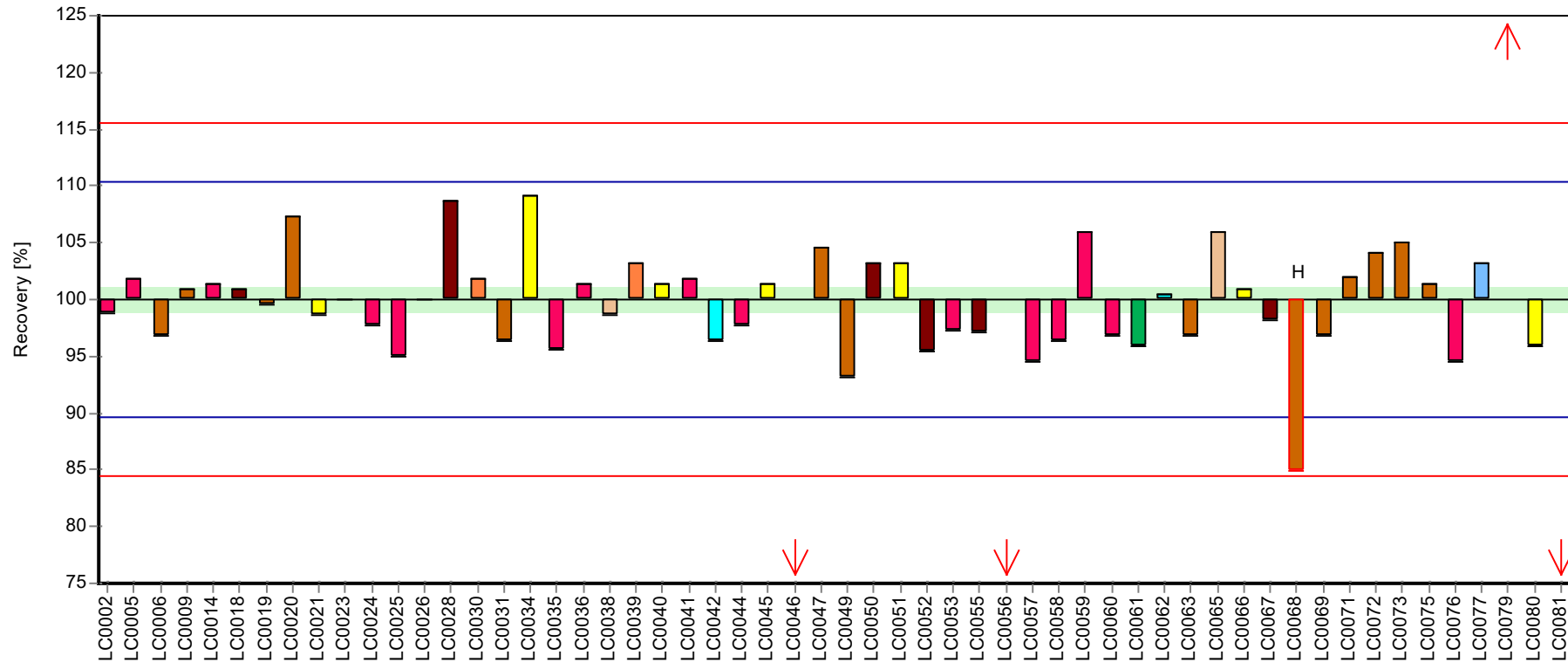
Results



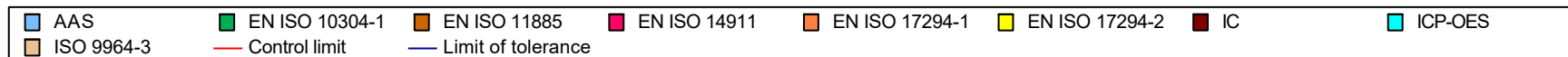
Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Potassium

Recovery rate



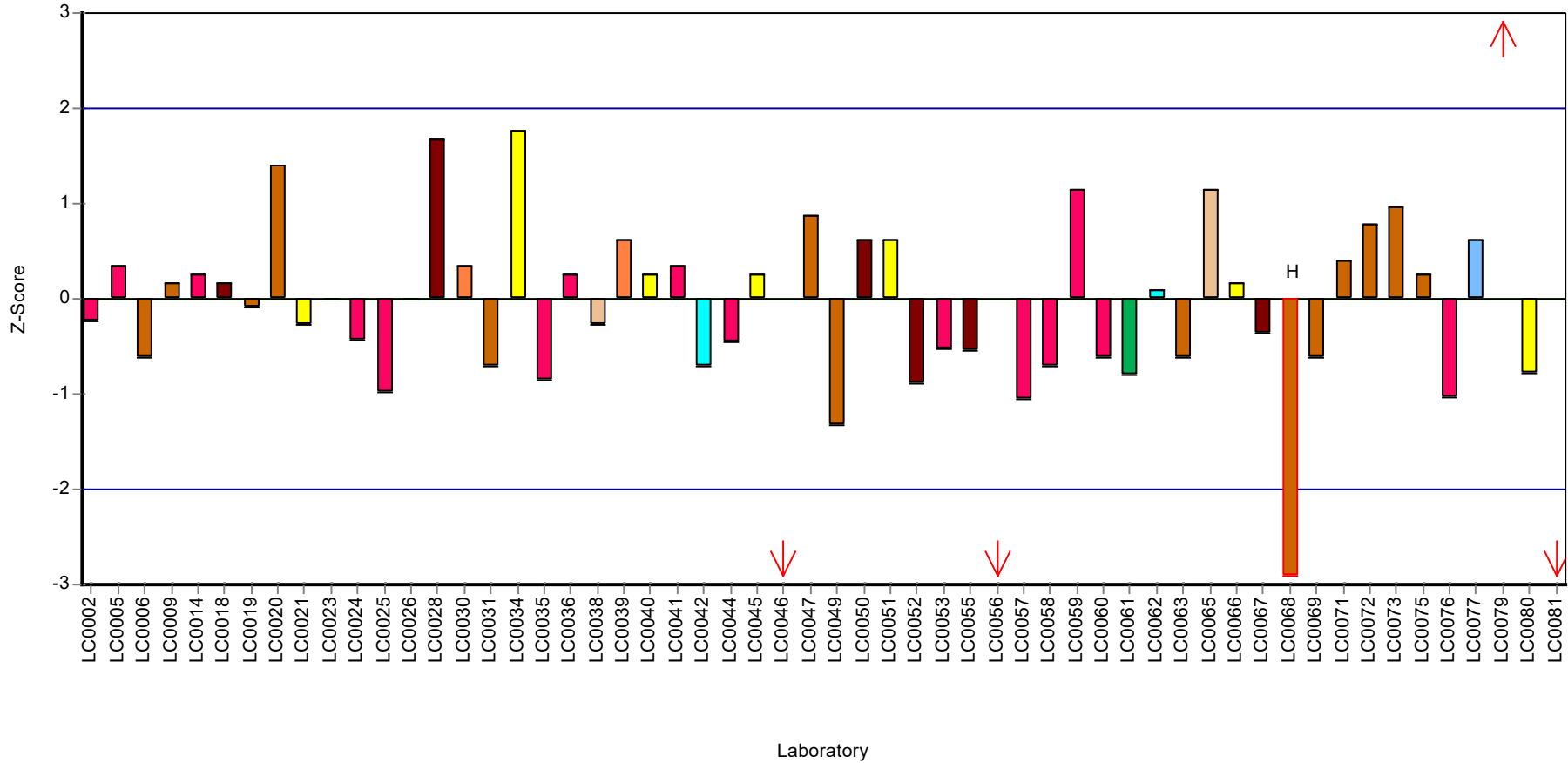
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Potassium

Z-score



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Sodium

Parameter oriented report

N160 A

Sodium

Unit	mg/l
Assigned value ± U (k=2)	31.6 ± 0.245
Criterion	1.07 (3.4 %)
Minimum - Maximum	29.2 - 33.7
Control test value ± U (k=2)	31.10 ± 3.11

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	25.89	0.78	81.9	-5.33	H
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	32.61	3.3	103	0.93	
LC0006	33.4	2.4	106	1.66	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	33.3	1.7	105	1.57	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	31.94	0.7	101	0.3	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	31.8	2.5	101	0.17	
LC0019	32.2	3.4	102	0.55	
LC0020	33.7	2.5	107	1.94	
LC0021	31.887	6.377	101	0.25	
LC0022	-	-	-	-	
LC0023	31.45	0.63	99.5	-0.15	
LC0024	31.03	0.8	98.2	-0.54	
LC0025	31.4	1.5	99.3	-0.2	
LC0026	30.59	0.2	96.8	-0.95	
LC0027	-	-	-	-	
LC0028	31.12	0.1	98.4	-0.46	
LC0029	-	-	-	-	
LC0030	32.65	4.5	103	0.96	
LC0031	32.4	1.6	102	0.73	
LC0032	30.1	3.612	95.2	-1.41	
LC0033	-	-	-	-	
LC0034	31.5	3.2	99.6	-0.11	
LC0035	30.912	3.796	97.8	-0.65	
LC0036	31	3.1	98.1	-0.57	
LC0037	-	-	-	-	
LC0038	31.5	5.76	99.6	-0.11	
LC0039	31.1	5	98.4	-0.48	
LC0040	31.5	0.99	99.6	-0.11	
LC0041	31.8	2.9	101	0.17	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Sodium

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	31.6	1	100	-0.01	
LC0043	-	-	-	-	
LC0044	32.015	3.2	101	0.37	
LC0045	31.7	3.17	100	0.08	
LC0046	32.3	3.23	102	0.64	
LC0047	31.7	1.6	100	0.08	
LC0048	-	-	-	-	
LC0049	32.29	1.62	102	0.63	
LC0050	32.01	0.58	101	0.37	
LC0051	31.8	6	101	0.17	
LC0052	32.3	3.6	102	0.64	
LC0053	30.93	2.42	97.8	-0.64	
LC0054	-	-	-	-	
LC0055	33.219	0.12	105	1.49	
LC0056	11.6	0.01	36.7	-18.6	H
LC0057	32.4	1.7	102	0.73	
LC0058	31.8	5.63	101	0.17	
LC0059	31.4	1.9	99.3	-0.2	
LC0060	31.2	1	98.7	-0.39	
LC0061	31	3.1	98.1	-0.57	
LC0062	31.9	1.6	101	0.27	
LC0063	30.3	0.6	95.8	-1.22	
LC0064	-	-	-	-	
LC0065	31.37	4.3	99.2	-0.23	
LC0066	31.1	1.6	98.4	-0.48	
LC0067	31.4	6.3	99.3	-0.2	
LC0068	30.2	2	95.5	-1.32	
LC0069	32.5	3.79	103	0.82	
LC0070	-	-	-	-	
LC0071	31.703	1.36	100	0.08	
LC0072	30	1.98	94.9	-1.5	
LC0073	32.2	0.35	102	0.55	
LC0074	-	-	-	-	
LC0075	31.6	4.11	100	-0.01	
LC0076	32.086	0.321	101	0.44	
LC0077	32.5	4.297	103	0.82	
LC0078	-	-	-	-	
LC0079	30.4	4.56	96.2	-1.13	
LC0080	29.773	0.171	94.2	-1.71	
LC0081	29.2	2	92.4	-2.25	
LC0082	-	-	-	-	

Characteristics of parameter

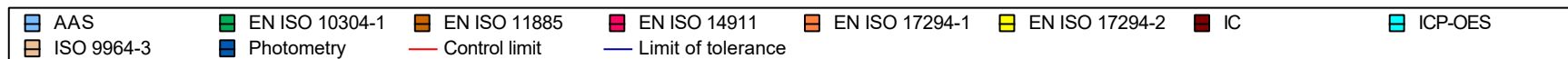
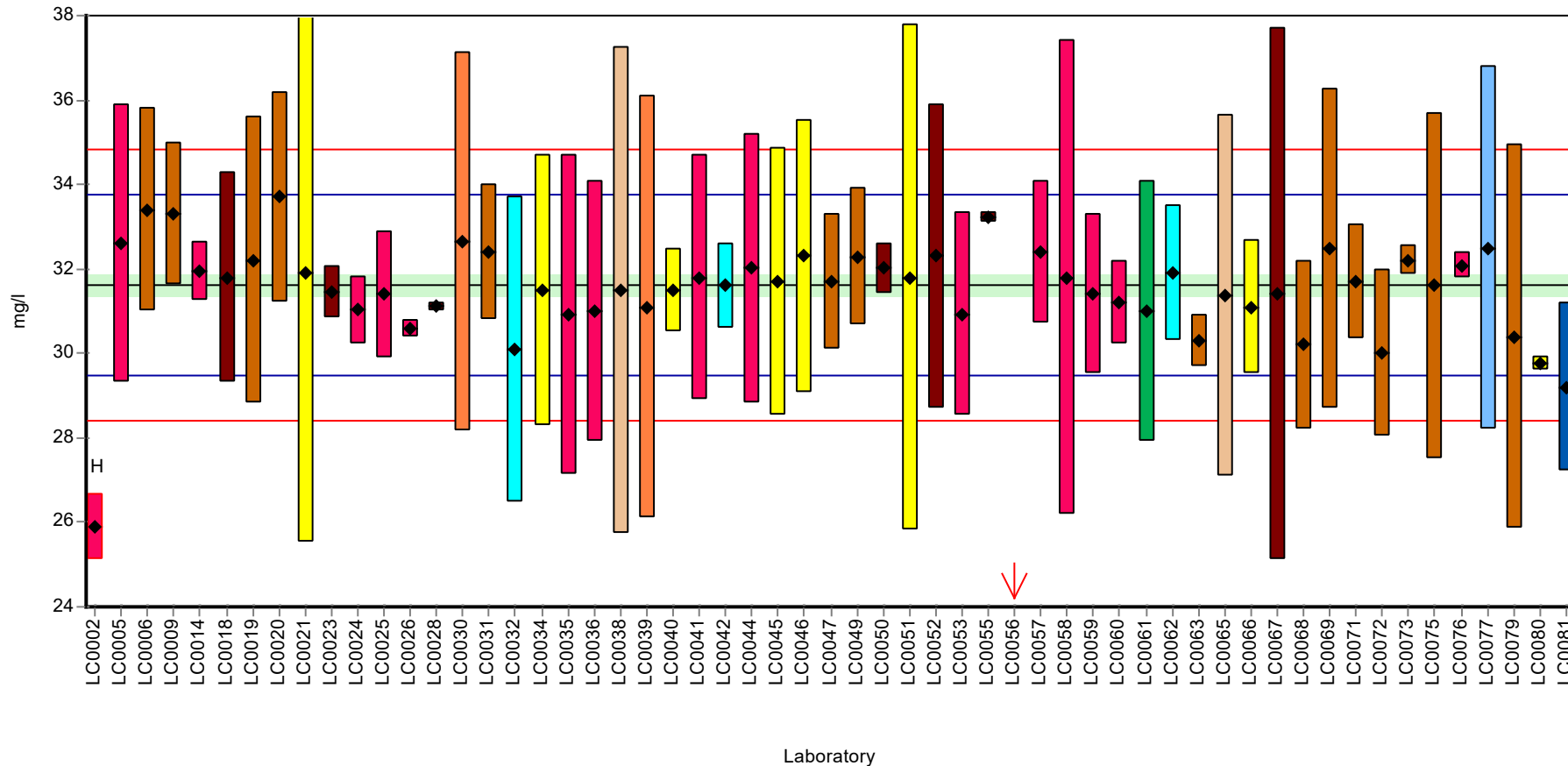
	all results	without outliers	Unit
Mean ± CI (99%)	31.2 ± 1.15	31.6 ± 0.367	mg/l
Minimum	11.6	29.2	mg/l
Maximum	33.7	33.7	mg/l
Standard deviation	2.89	0.908	mg/l
rel. standard deviation	9.26	2.87	%
n	57	55	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Sodium

Graphical presentation of results

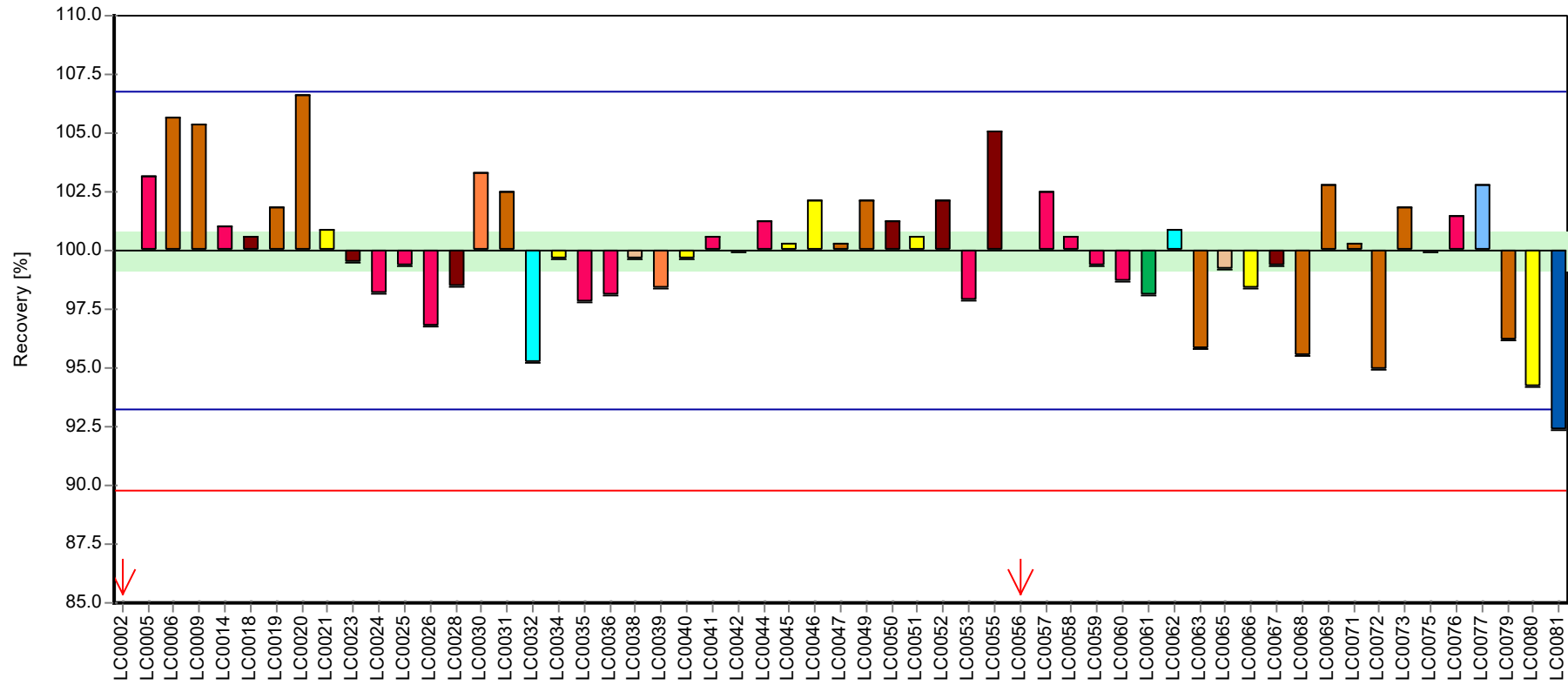
Results



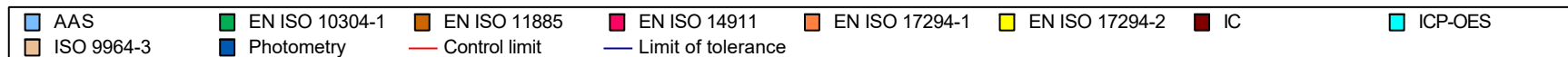
Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Sodium

Recovery rate



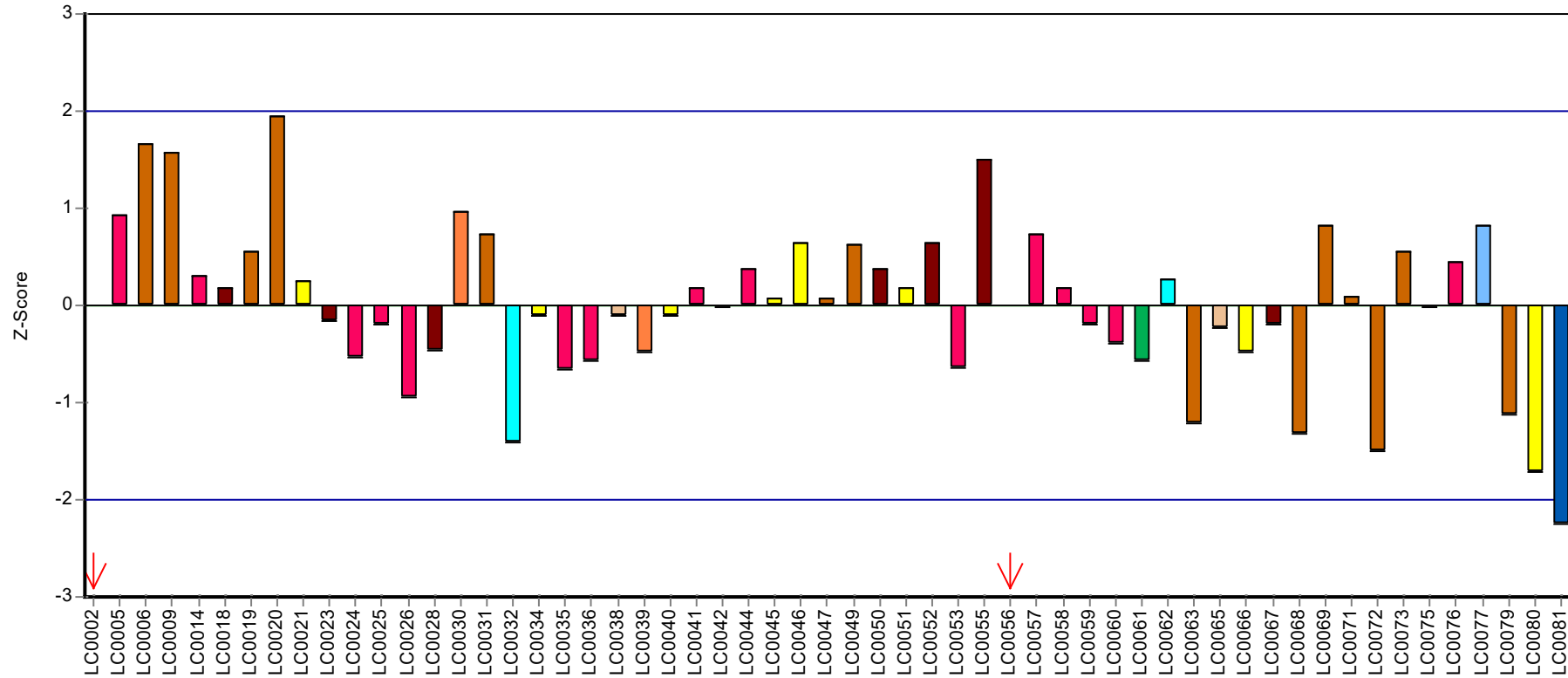
Laboratory



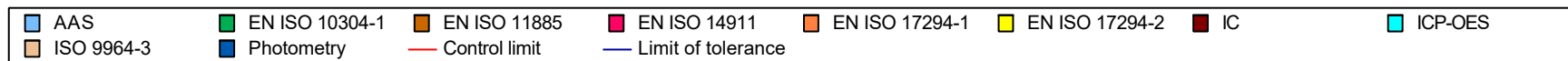
Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Sodium

Z-score



Laboratory



Parameter oriented report

N160 B

Sodium

Unit	mg/l
Assigned value ± U (k=2)	14.3 ± 0.118
Criterion	0.485 (3.4 %)
Minimum - Maximum	13.2 - 15.3
Control test value ± U (k=2)	14.0 ± 1.4

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	12.6	0.38	88.3	-3.43	H
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	14.81	0.15	104	1.13	
LC0006	14.4	1	101	0.28	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	14	0.7	98.2	-0.54	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	14.39	0.3	101	0.27	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	14.5	1.2	102	0.49	
LC0019	14.5	1.5	102	0.49	
LC0020	15.5	1.2	109	2.55	H
LC0021	14.0184	2.804	98.3	-0.5	
LC0022	-	-	-	-	
LC0023	14.24	0.28	99.8	-0.04	
LC0024	14.29	0.37	100	0.06	
LC0025	14	0.7	98.2	-0.54	
LC0026	13.71	0.2	96.1	-1.14	
LC0027	-	-	-	-	
LC0028	14.04	0.1	98.4	-0.46	
LC0029	-	-	-	-	
LC0030	15.3	2.25	107	2.14	
LC0031	14.7	0.7	103	0.9	
LC0032	13.4	1.608	94	-1.78	
LC0033	-	-	-	-	
LC0034	14.3	1.4	100	0.08	
LC0035	13.974	1.716	98	-0.59	
LC0036	14	1.4	98.2	-0.54	
LC0037	-	-	-	-	
LC0038	14.3	2.61	100	0.08	
LC0039	14.2	2.2	99.6	-0.13	
LC0040	15.2	0.53	107	1.94	
LC0041	14.2	1.3	99.6	-0.13	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Sodium

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	14.3	1	100	0.08	
LC0043	-	-	-	-	
LC0044	14.398	1.4	101	0.28	
LC0045	14.8	1.5	104	1.11	
LC0046	14.7	1.47	103	0.9	
LC0047	13.7	0.7	96.1	-1.16	
LC0048	-	-	-	-	
LC0049	14.46	0.723	101	0.41	
LC0050	14.52	0.12	102	0.53	
LC0051	14.3	3	100	0.08	
LC0052	14.6	1.6	102	0.7	
LC0053	13.99	1.09	98.1	-0.56	
LC0054	-	-	-	-	
LC0055	14.898	0.18	104	1.31	
LC0056	5.24	0.01	36.7	-18.6	H
LC0057	14.2	0.8	99.6	-0.13	
LC0058	14.4	2.55	101	0.28	
LC0059	14.2	1.7	99.6	-0.13	
LC0060	14.1	0.3	98.9	-0.33	
LC0061	13.67	1.367	95.9	-1.22	
LC0062	14.6	8	102	0.7	
LC0063	13.2	1.3	92.6	-2.19	
LC0064	-	-	-	-	
LC0065	14.17	1.93	99.4	-0.19	
LC0066	13.9	0.7	97.5	-0.75	
LC0067	14.2	1.4	99.6	-0.13	
LC0068	13.5	0.88	94.7	-1.57	
LC0069	14.4	1.7	101	0.28	
LC0070	-	-	-	-	
LC0071	14.306	1.8	100	0.09	
LC0072	13.8	0.911	96.8	-0.95	
LC0073	14.3	0.295	100	0.08	
LC0074	-	-	-	-	
LC0075	14.45	1.87	101	0.39	
LC0076	13.769	0.14	96.5	-1.02	
LC0077	15.1	1.996	106	1.73	
LC0078	-	-	-	-	
LC0079	14.2	2.13	99.6	-0.13	
LC0080	11.618	0.348	81.5	-5.45	H
LC0081	4.6	0.3	32.3	-19.9	H
LC0082	-	-	-	-	

Characteristics of parameter

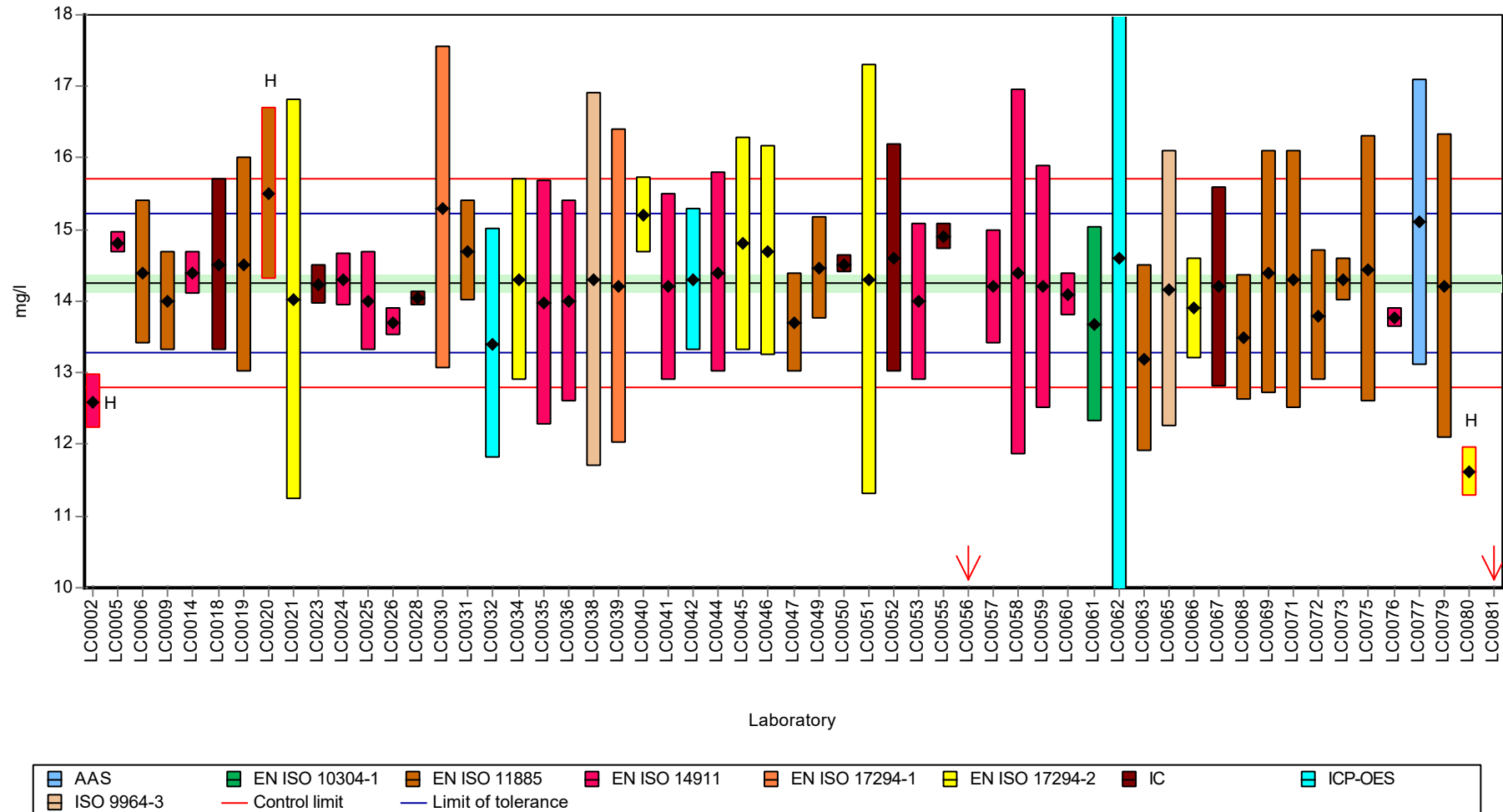
	all results	without outliers	Unit
Mean ± CI (99%)	13.9 ± 0.726	14.3 ± 0.176	mg/l
Minimum	4.6	13.2	mg/l
Maximum	15.5	15.3	mg/l
Standard deviation	1.83	0.424	mg/l
rel. standard deviation	13.2	2.97	%
n	57	52	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Sodium

Graphical presentation of results

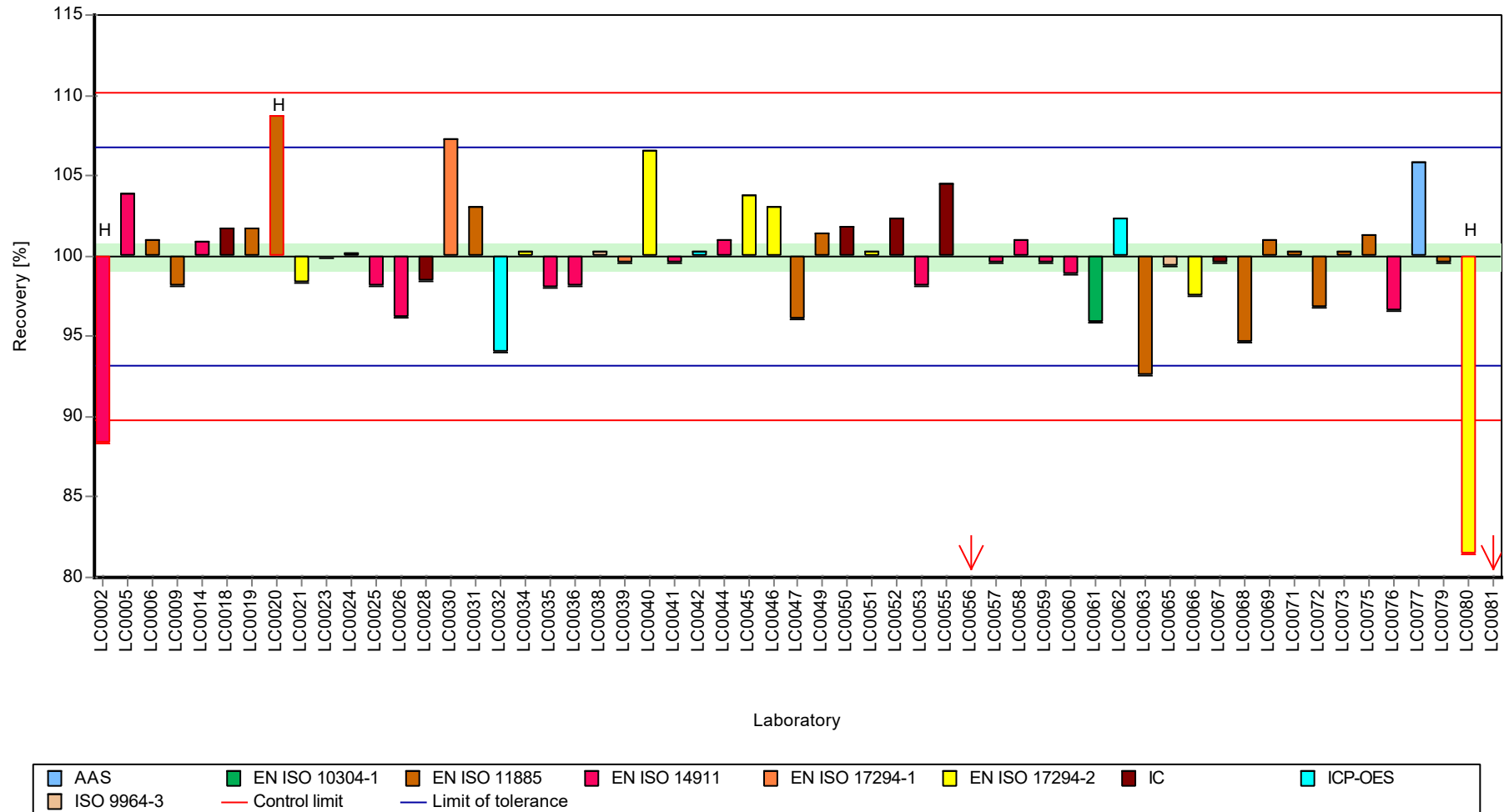
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Sodium

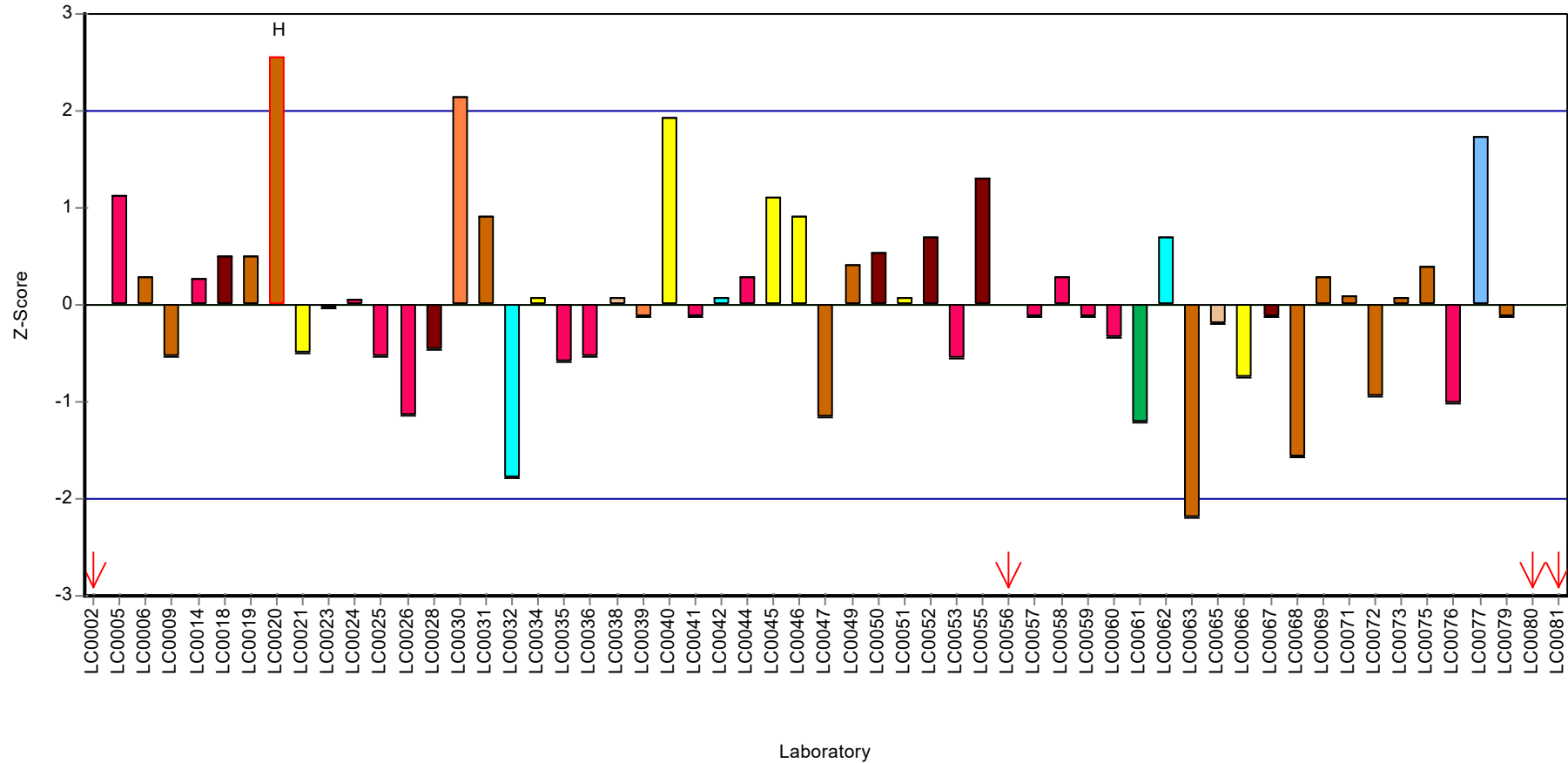
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Sodium

Z-score



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Sulfate (as SO₄)

Parameter oriented report

N160 A

Sulfate (as SO₄)

Unit	mg/l
Assigned value ± U (k=2)	53.9 ± 0.416
Criterion	1.78 (3.3 %)
Minimum - Maximum	49.6 - 56.9
Control test value ± U (k=2)	53.80 ± 4.31

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	52.921	3.223	98.3	-0.53	
LC0002	55.4	4.97	103	0.86	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	54.62	1.26	101	0.43	
LC0006	54	1.8	100	0.08	
LC0007	55.58	5.558	103	0.97	
LC0008	-	-	-	-	
LC0009	53.3	2.7	99	-0.32	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	62	5	115	4.58	H
LC0013	-	-	-	-	
LC0014	55.94	1.44	104	1.17	
LC0015	-	-	-	-	
LC0016	53.8	4.6	99.9	-0.04	
LC0017	55.1	1.8	102	0.7	
LC0018	56	5.6	104	1.2	
LC0019	54.3	7.2	101	0.25	
LC0020	54.4	5	101	0.3	
LC0021	54.18	10.836	101	0.18	
LC0022	-	-	-	-	
LC0023	54.17	1.63	101	0.17	
LC0024	54.5	2.1	101	0.36	
LC0025	52.6	3.2	97.7	-0.71	
LC0026	53.83	2	99.9	-0.02	
LC0027	-	-	-	-	
LC0028	52.21	0.32	96.9	-0.93	
LC0029	-	-	-	-	
LC0030	55.6	0.55	103	0.98	
LC0031	61.2	5.3	114	4.13	H
LC0032	51.33	5.13	95.3	-1.42	
LC0033	-	-	-	-	
LC0034	50.5	5.1	93.8	-1.89	
LC0035	53.192	5.862	98.8	-0.38	
LC0036	54.9	5.5	102	0.58	
LC0037	-	-	-	-	
LC0038	54.9	4.69	102	0.58	
LC0039	54.3	5.4	101	0.25	
LC0040	55.1	0.46	102	0.7	
LC0041	54.4	2.3	101	0.3	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Sulfate (as SO4)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	56.8	1.5	105	1.65	
LC0043	-	-	-	-	
LC0044	53.538	5.3	99.4	-0.18	
LC0045	53.07	2.65	98.5	-0.45	
LC0046	52.3	5.23	97.1	-0.88	
LC0047	54	3.9	100	0.08	
LC0048	-	-	-	-	
LC0049	53.91	1.4	100	0.03	
LC0050	53.69	1.01	99.7	-0.1	
LC0051	48.3	7	89.7	-3.13	H
LC0052	55.2	3.3	102	0.75	
LC0053	54.01	5.56	100	0.08	
LC0054	55.11	2.13	102	0.7	
LC0055	50.351	0.97	93.5	-1.98	
LC0056	54.7	2	102	0.47	
LC0057	53	3	98.4	-0.48	
LC0058	50.8	3.28	94.3	-1.72	
LC0059	55.1	3.3	102	0.7	
LC0060	54.4	1.5	101	0.3	
LC0061	56.92	2.846	106	1.72	
LC0062	-	-	-	-	
LC0063	51	2.2	94.7	-1.61	
LC0064	-	-	-	-	
LC0065	54.58	5.3	101	0.4	
LC0066	53.9	5	100	0.02	
LC0067	54.3	3.8	101	0.25	
LC0068	53.9	3.5	100	0.02	
LC0069	52.3	3.2	97.1	-0.88	
LC0070	-	-	-	-	
LC0071	-	-	-	-	
LC0072	51.8	5.34	96.2	-1.16	
LC0073	55.1	0.788	102	0.7	
LC0074	-	-	-	-	
LC0075	53.47	5.88	99.3	-0.22	
LC0076	53.3	13.33	99	-0.32	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	53.15	5.31	98.7	-0.4	
LC0080	55.813	0.091	104	1.1	
LC0081	49.57	6.05	92	-2.41	
LC0082	-	-	-	-	

Characteristics of parameter

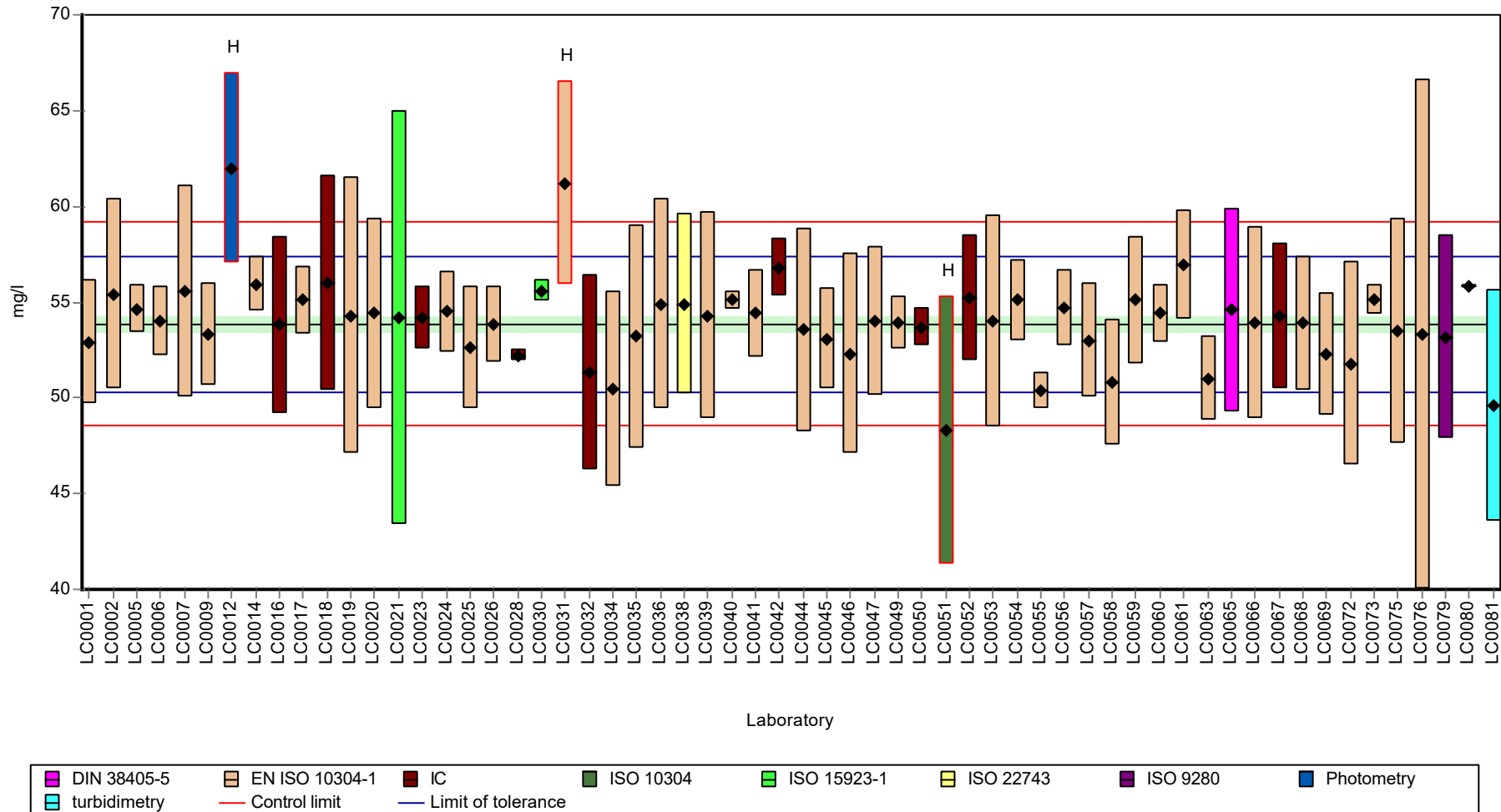
	all results	without outliers	Unit
Mean ± CI (99%)	54 ± 0.855	53.9 ± 0.624	mg/l
Minimum	48.3	49.6	mg/l
Maximum	62	56.9	mg/l
Standard deviation	2.21	1.57	mg/l
rel. standard deviation	4.09	2.92	%
n	60	57	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Sulfate (as SO₄)

Graphical presentation of results

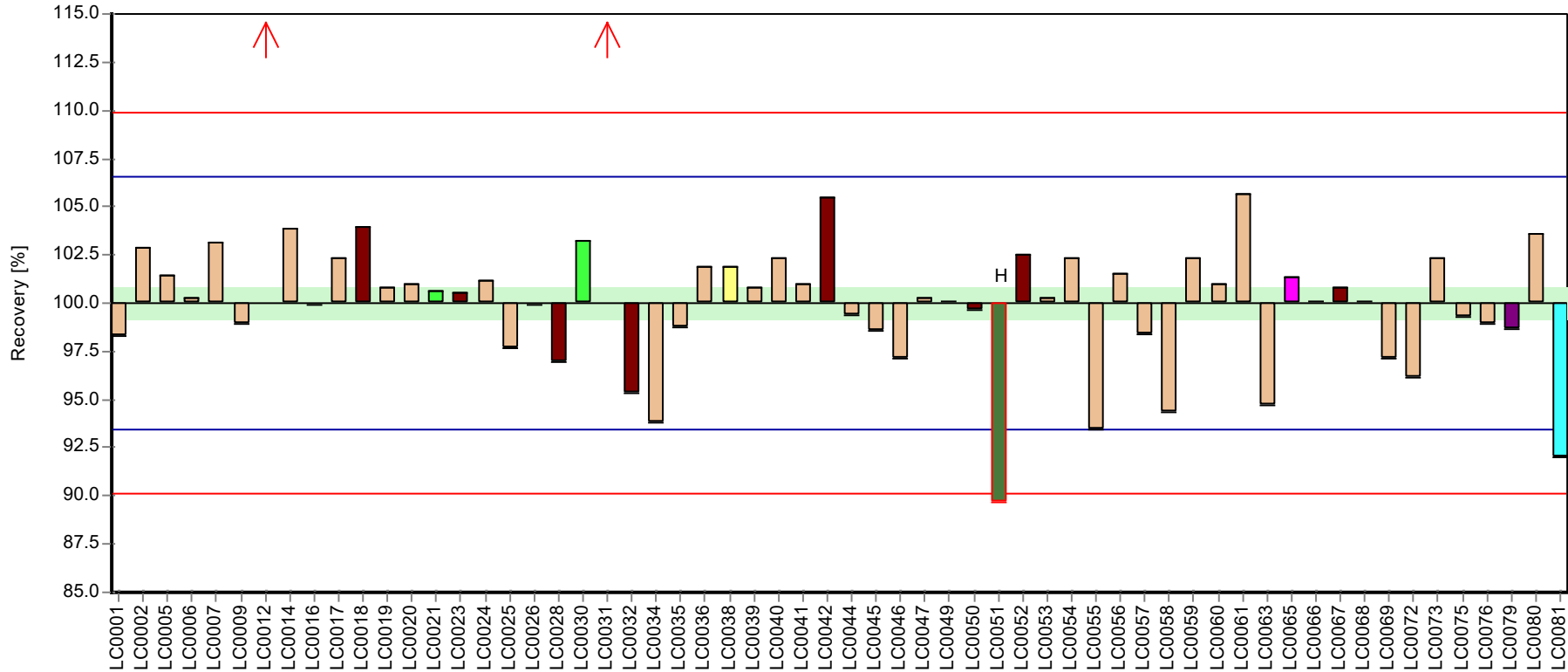
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Sulfate (as SO4)

Recovery rate



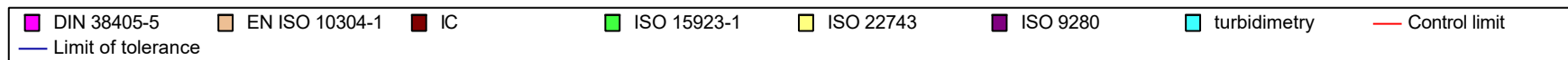
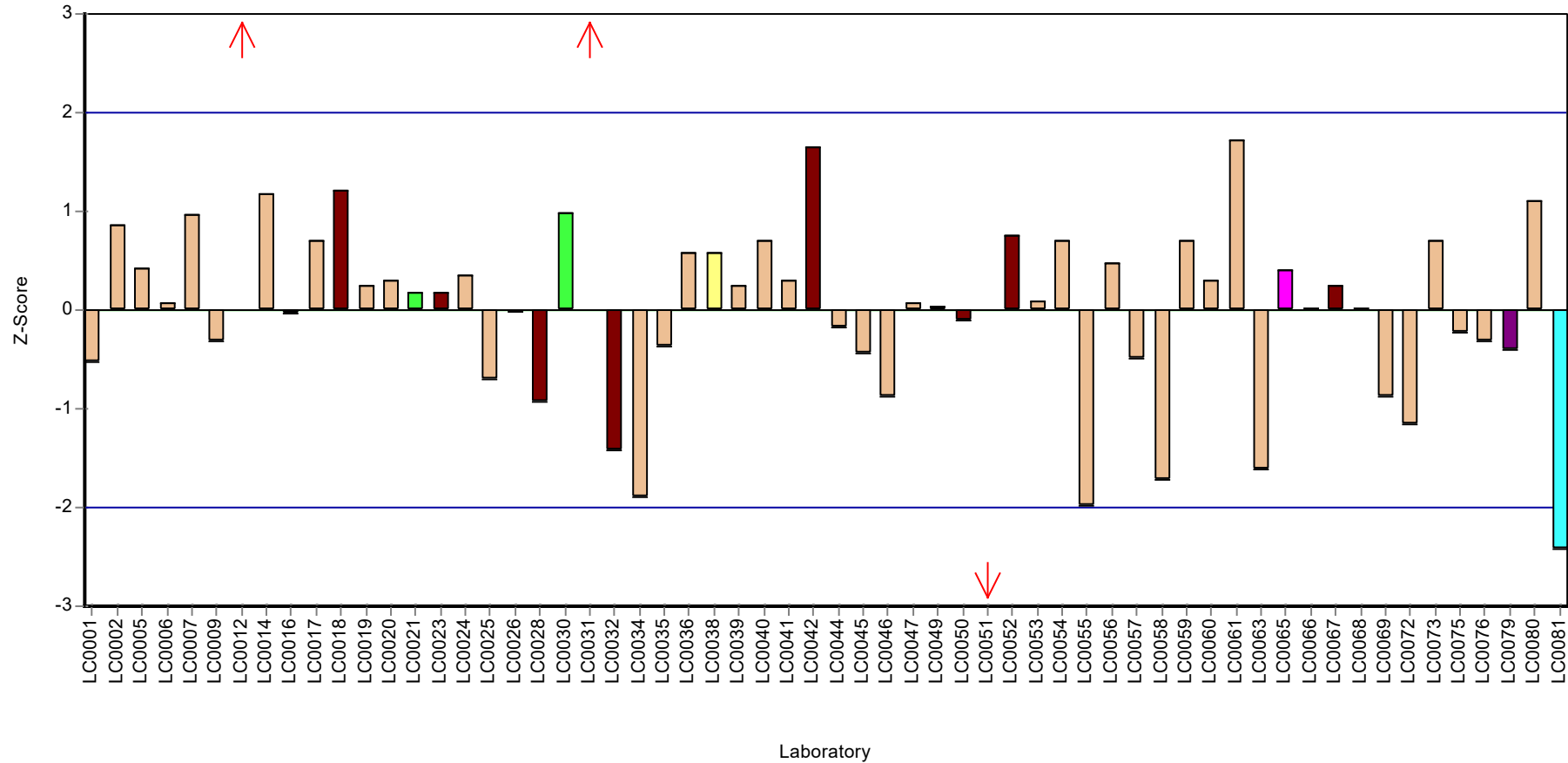
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Sulfate (as SO4)

Z-score



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Sulfate (as SO₄)

Parameter oriented report

N160 B

Sulfate (as SO₄)

Unit	mg/l
Assigned value ± U (k=2)	29.5 ± 0.207
Criterion	0.973 (3.3 %)
Minimum - Maximum	27.6 - 31.6
Control test value ± U (k=2)	29.00 ± 2.32

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	28.948	1.763	98.2	-0.55	
LC0002	28.56	2.56	96.9	-0.95	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	29.52	0.68	100	0.04	
LC0006	29.7	0.98	101	0.22	
LC0007	31.07	3.107	105	1.63	
LC0008	-	-	-	-	
LC0009	29.1	1.5	98.7	-0.4	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	34.05	5	115	4.69	H
LC0013	-	-	-	-	
LC0014	29.93	0.8	102	0.46	
LC0015	-	-	-	-	
LC0016	29.1	2.5	98.7	-0.4	
LC0017	30	0.99	102	0.53	
LC0018	30	3	102	0.53	
LC0019	29.6	3.9	100	0.12	
LC0020	29.9	2.8	101	0.43	
LC0021	31.583	6.317	107	2.16	
LC0022	-	-	-	-	
LC0023	29.53	0.89	100	0.05	
LC0024	29.8	1.2	101	0.32	
LC0025	29.2	1.7	99	-0.29	
LC0026	29.32	2	99.4	-0.17	
LC0027	-	-	-	-	
LC0028	29.09	0.15	98.7	-0.41	
LC0029	-	-	-	-	
LC0030	29.4	0.2	99.7	-0.09	
LC0031	34.5	3	117	5.15	H
LC0032	28.62	2.86	97.1	-0.89	
LC0033	-	-	-	-	
LC0034	28.9	2.9	98	-0.6	
LC0035	28.576	3.149	96.9	-0.93	
LC0036	30.2	3	102	0.74	
LC0037	-	-	-	-	
LC0038	29.9	2.55	101	0.43	
LC0039	29.1	2.9	98.7	-0.4	
LC0040	29.9	0.3	101	0.43	
LC0041	30	1.3	102	0.53	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Sulfate (as SO₄)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	30.8	1.5	104	1.35	
LC0043	-	-	-	-	
LC0044	29.509	2.9	100	0.03	
LC0045	29.09	1.46	98.7	-0.41	
LC0046	28.8	2.88	97.7	-0.7	
LC0047	29.6	2.1	100	0.12	
LC0048	-	-	-	-	
LC0049	29.71	0.771	101	0.23	
LC0050	29.06	0.09	98.6	-0.44	
LC0051	28.8	4	97.7	-0.7	
LC0052	30.3	1.8	103	0.84	
LC0053	28.75	2.96	97.5	-0.76	
LC0054	30.04	1.175	102	0.57	
LC0055	27.635	0.69	93.7	-1.9	
LC0056	30.6	2	104	1.15	
LC0057	29.1	1.6	98.7	-0.4	
LC0058	28.6	1.84	97	-0.91	
LC0059	29.8	1.8	101	0.32	
LC0060	29.7	1	101	0.22	
LC0061	31.4	1.57	106	1.97	
LC0062	-	-	-	-	
LC0063	26.9	1.5	91.2	-2.66	H
LC0064	-	-	-	-	
LC0065	30.34	3	103	0.88	
LC0066	29.5	2.8	100	0.02	
LC0067	29.3	2.1	99.4	-0.19	
LC0068	29.3	1.9	99.4	-0.19	
LC0069	28.2	1.8	95.6	-1.32	
LC0070	-	-	-	-	
LC0071	-	-	-	-	
LC0072	27.9	2.87	94.6	-1.63	
LC0073	30.1	0.397	102	0.63	
LC0074	-	-	-	-	
LC0075	29.52	3.24	100	0.04	
LC0076	29.09	7.27	98.7	-0.41	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	33.8	3.38	115	4.44	H
LC0080	29.373	0.0469	99.6	-0.11	
LC0081	28.66	3.54	97.2	-0.85	
LC0082	-	-	-	-	

Characteristics of parameter

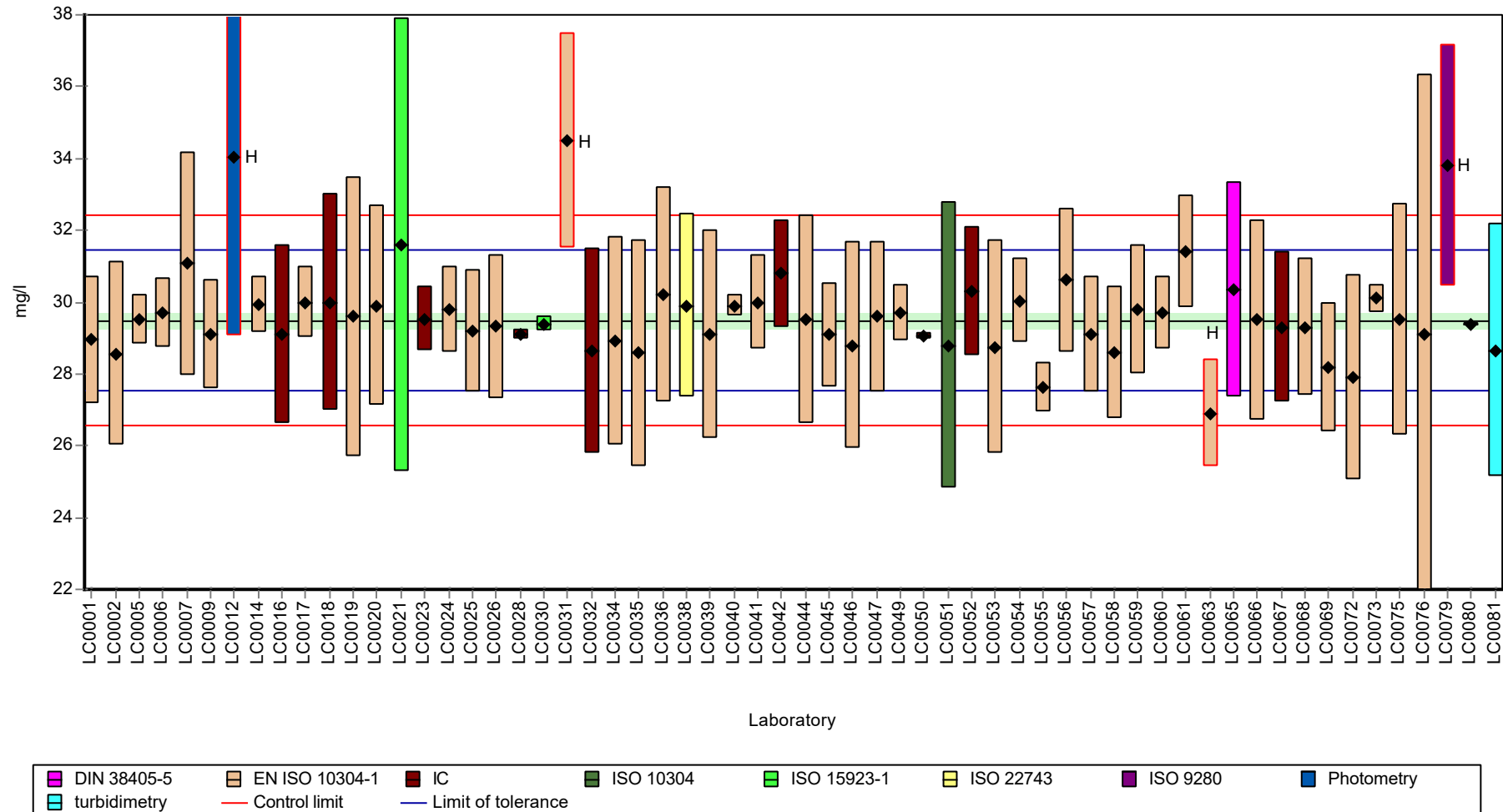
	all results	without outliers	Unit
Mean ± CI (99%)	29.7 ± 0.51	29.5 ± 0.311	mg/l
Minimum	26.9	27.6	mg/l
Maximum	34.5	31.6	mg/l
Standard deviation	1.32	0.775	mg/l
rel. standard deviation	4.44	2.63	%
n	60	56	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Sulfate (as SO₄)

Graphical presentation of results

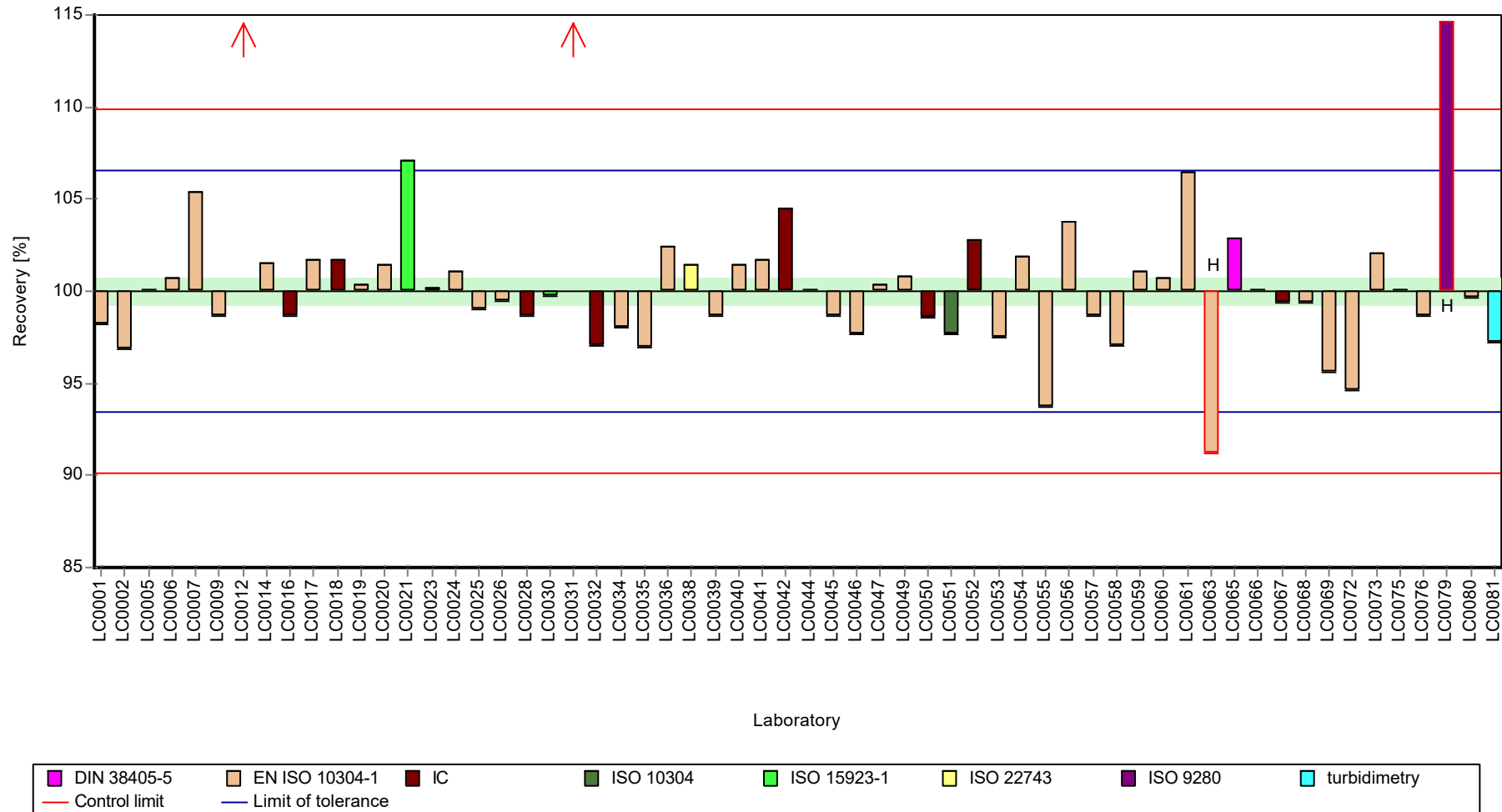
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Sulfate (as SO4)

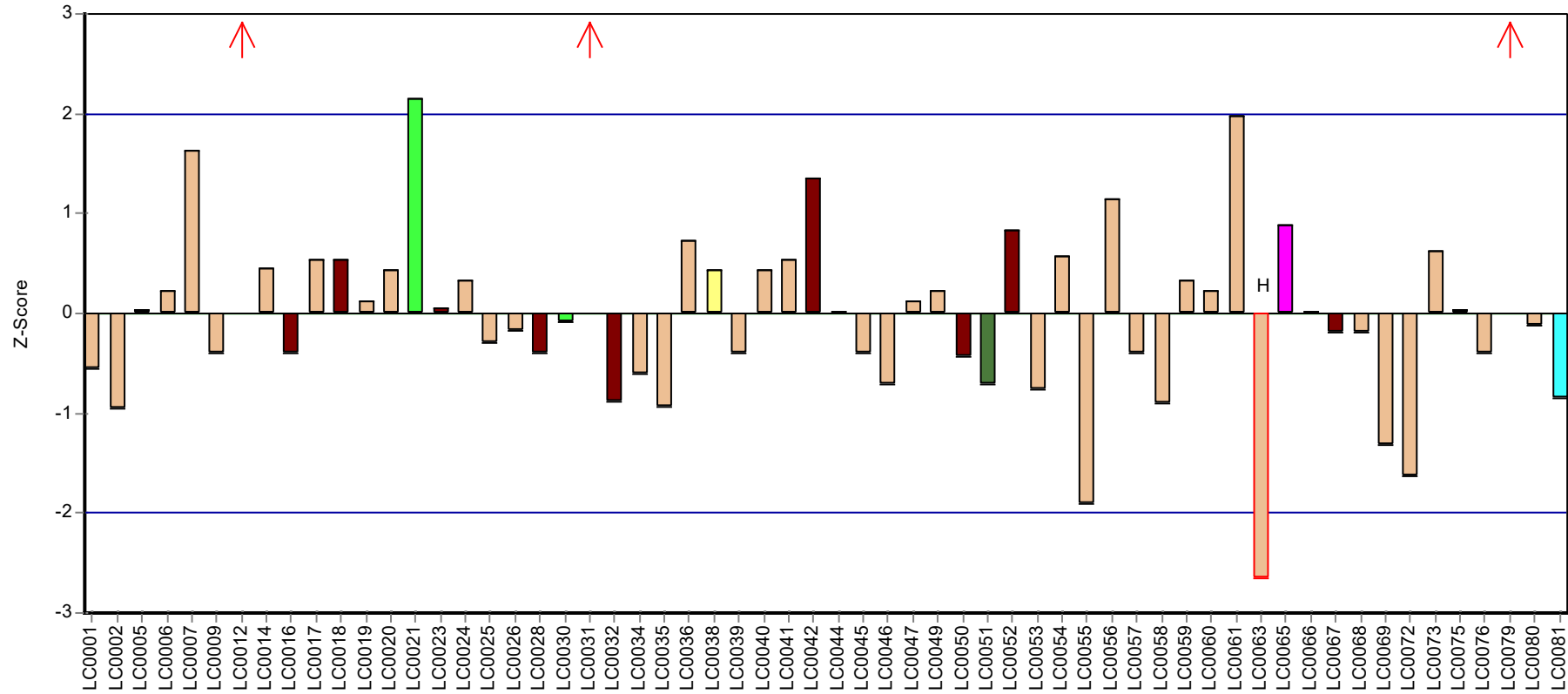
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Sulfate (as SO4)

Z-score



Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Total-P (as PO4)

Parameter oriented report

N160 A

Total-P (as PO4)

Unit	mg/l
Assigned value ± U (k=2)	1.19 ± 0.0184
Criterion	0.0891 (7.5 %)
Minimum - Maximum	0.99 - 1.36
Control test value ± U (k=2)	1.190 ± 0.0954

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1.14	0.137	96	-0.54	
LC0002	1.225	0.052	103	0.42	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	1.22	0.07	103	0.36	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	1.24	0.13	104	0.58	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	1.159	0.0347	97.6	-0.32	
LC0014	1.192	0.112	100	0.05	
LC0015	1.11	0.147	93.4	-0.87	
LC0016	0.424	0.06	35.7	-8.57	H
LC0017	-	-	-	-	
LC0018	1.16	0.32	97.7	-0.31	
LC0019	1.13	0.21	95.1	-0.65	
LC0020	1.17	0.06	98.5	-0.2	
LC0021	0.388	0.0582	32.7	-8.98	H
LC0022	1.16	0.064	97.7	-0.31	
LC0023	0.372	0.022	31.3	-9.16	H
LC0024	1.397	0.075	118	2.35	H
LC0025	1.25	0.087	105	0.7	
LC0026	1.145	0.005	96.4	-0.48	
LC0027	1.169	0.027	98.4	-0.21	
LC0028	1.15	0.01	96.8	-0.42	
LC0029	0.215	0.001	18.1	-10.9	H
LC0030	1.128	0.01	95	-0.67	
LC0031	1.36	0.07	114	1.93	
LC0032	1.171	0.234	98.6	-0.19	
LC0033	-	-	-	-	
LC0034	-	-	-	-	
LC0035	1.134	0.127	95.5	-0.6	
LC0036	1.21	0.24	102	0.25	
LC0037	1.118	0.069	94.1	-0.78	
LC0038	-	-	-	-	
LC0039	1.163	0.081	97.9	-0.28	
LC0040	1.12	0.019	94.3	-0.76	
LC0041	-	-	-	-	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Total-P (as PO4)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	1.36	0.03	114	1.93	
LC0043	-	-	-	-	
LC0044	1.1872	0.03	99.9	-0.01	
LC0045	1.221	0.122	103	0.37	
LC0046	1.25	0.125	105	0.7	
LC0047	0.95	0.05	80	-2.67	H
LC0048	1.197	0.1	101	0.1	
LC0049	1.149	0.0545	96.7	-0.44	
LC0050	0.99	0.02	83.3	-2.22	
LC0051	1.29	0.3	109	1.15	
LC0052	1.21	0.38	102	0.25	
LC0053	1.332	0.085	112	1.62	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	1.09	0.02	91.8	-1.1	
LC0057	-	-	-	-	
LC0058	1.19574	0.19	101	0.09	
LC0059	1.17	0.11	98.5	-0.2	
LC0060	1.2	0.05	101	0.14	
LC0061	1.205	0.1809	101	0.19	
LC0062	-	-	-	-	
LC0063	1.2	0.03	101	0.14	
LC0064	-	-	-	-	
LC0065	1.14	0.09	96	-0.54	
LC0066	1.17	0.17	98.5	-0.2	
LC0067	1.23	0.11	104	0.47	
LC0068	1.42	0.16	120	2.61	H
LC0069	1.23	0.1	104	0.47	
LC0070	1.196	0.179	101	0.09	
LC0071	1.19	0.03	100	0.02	
LC0072	1.17	0.0063	98.5	-0.2	
LC0073	1.13	0.0277	95.1	-0.65	
LC0074	1.1975	0.068	101	0.11	
LC0075	1.568	0.15	132	4.27	H
LC0076	1.205	0.301	101	0.19	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	0.039	0.004	3.3	-12.9	H
LC0080	1.611	0.0388	136	4.75	H
LC0081	1.264	0.026	106	0.85	
LC0082	-	-	-	-	

Characteristics of parameter

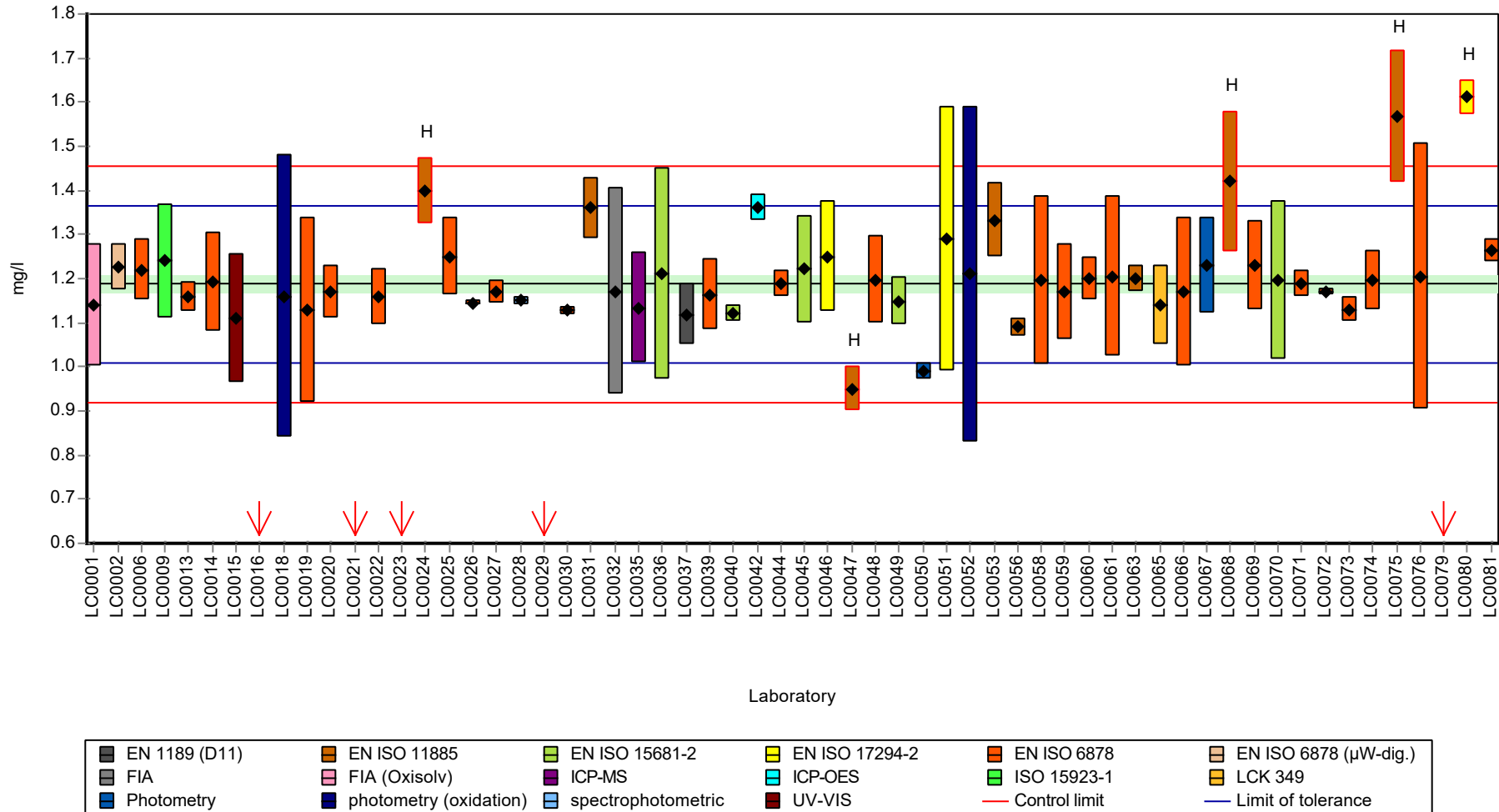
	all results	without outliers	Unit
Mean ± CI (99%)	1.13 ± 0.109	1.19 ± 0.0276	mg/l
Minimum	0.039	0.99	mg/l
Maximum	1.61	1.36	mg/l
Standard deviation	0.28	0.0651	mg/l
rel. standard deviation	24.8	5.48	%
n	60	50	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Total-P (as PO4)

Graphical presentation of results

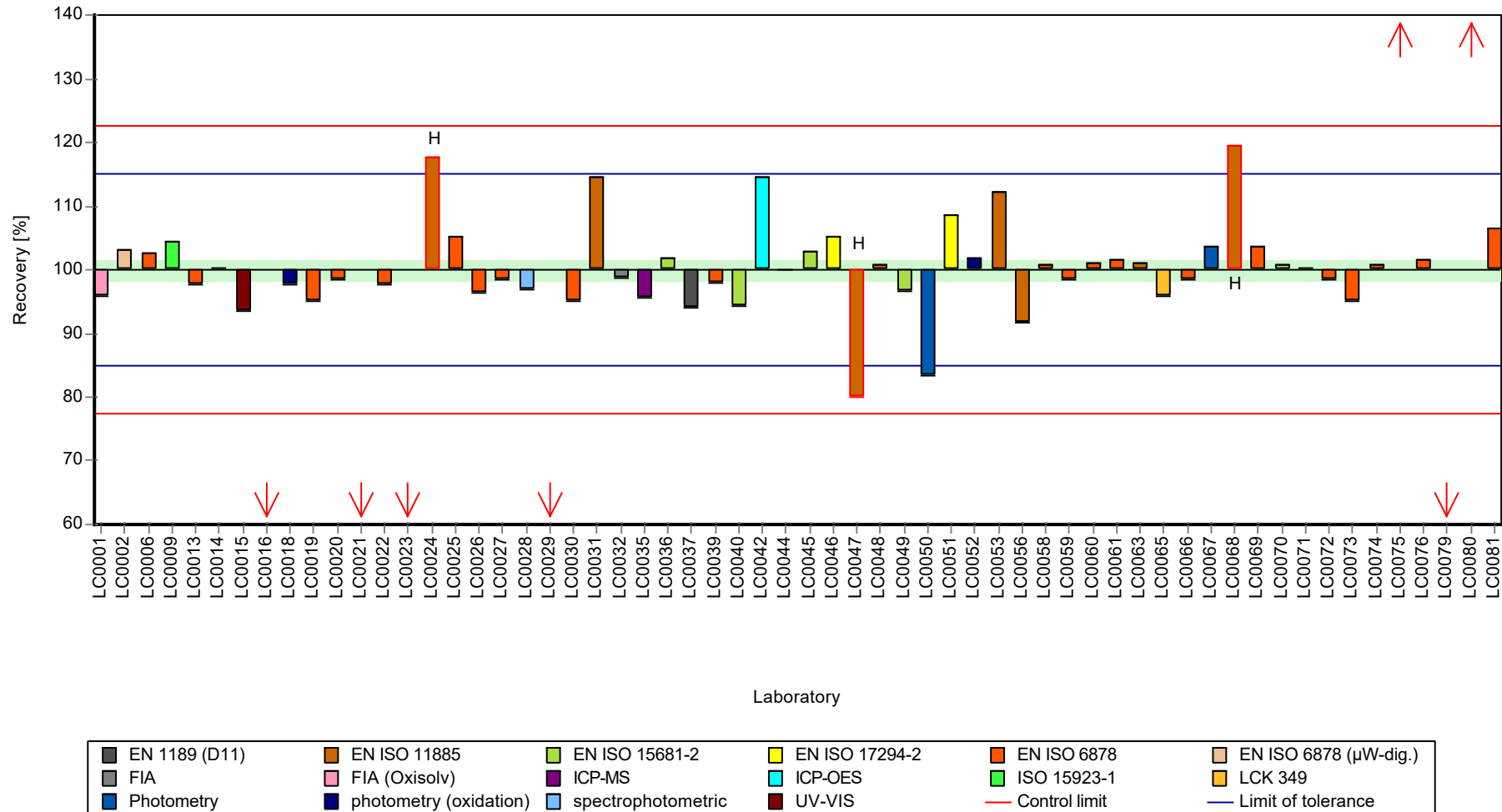
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Total-P (as PO4)

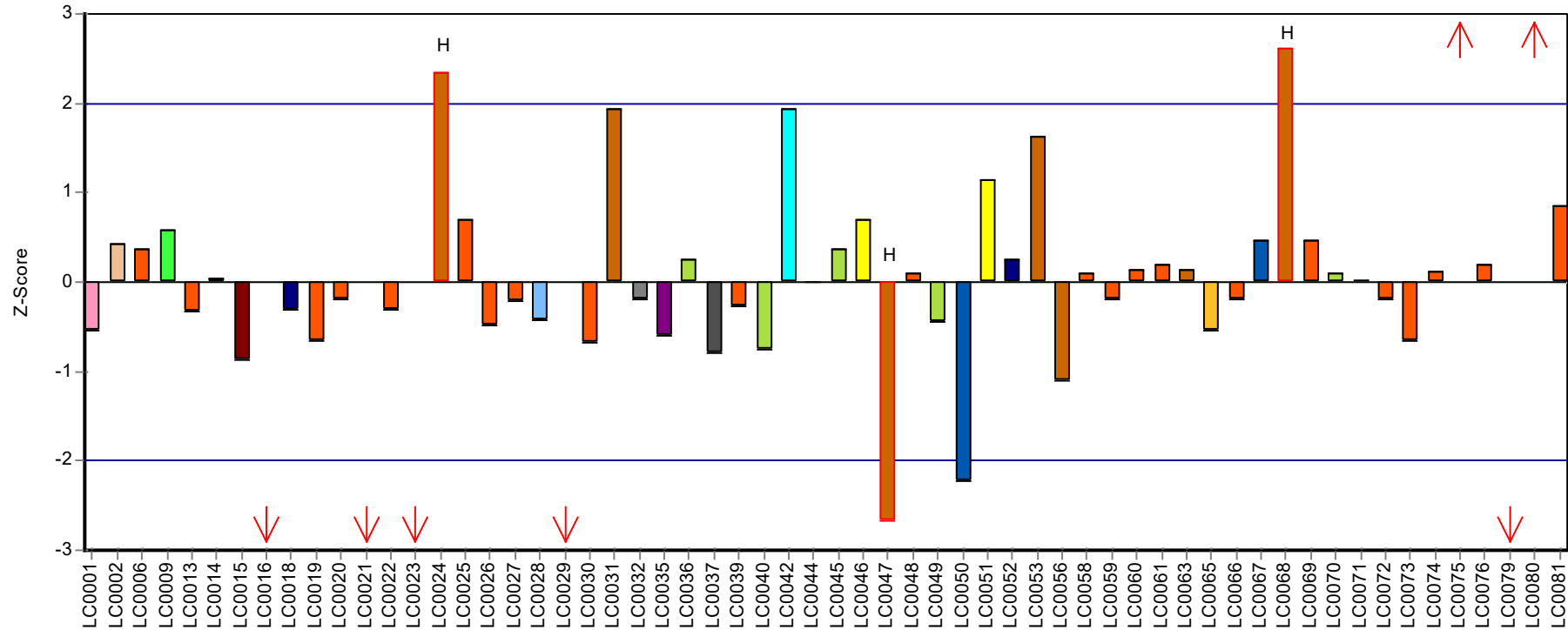
Recovery rate



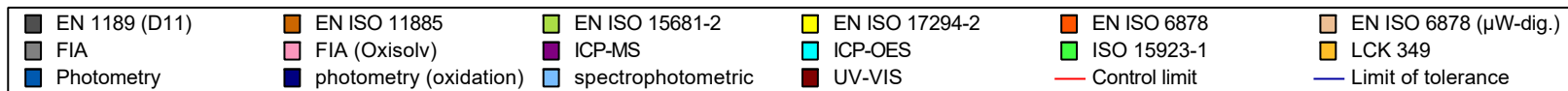
Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Total-P (as PO4)

Z-score



Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Total-P (as PO4)

Parameter oriented report

N160 B

Total-P (as PO4)

Unit	mg/l
Assigned value ± U (k=2)	0.925 ± 0.0149
Criterion	0.0694 (7.5 %)
Minimum - Maximum	0.8 - 1.06
Control test value ± U (k=2)	0.9190 ± 0.0735

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0.904	0.108	97.7	-0.31	
LC0002	0.957	0.041	103	0.45	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	-	-	-	-	
LC0006	0.938	0.053	101	0.18	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	0.951	0.096	103	0.37	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	-	-	-	-	
LC0013	0.831	0.0347	89.8	-1.36	
LC0014	0.938	0.088	101	0.18	
LC0015	0.941	0.124	102	0.22	
LC0016	0.332	0.04	35.9	-8.55	H
LC0017	-	-	-	-	
LC0018	0.93	0.26	100	0.07	
LC0019	0.879	0.159	95	-0.67	
LC0020	0.903	0.05	97.6	-0.32	
LC0021	0.295	0.0442	31.9	-9.08	H
LC0022	0.875	0.048	94.5	-0.73	
LC0023	0.287	0.017	31	-9.2	H
LC0024	1.046	0.056	113	1.74	
LC0025	0.957	0.067	103	0.45	
LC0026	0.887	0.005	95.8	-0.55	
LC0027	0.892	0.014	96.4	-0.48	
LC0028	0.88	0.01	95.1	-0.66	
LC0029	0.165	0.0007	17.8	-11	H
LC0030	0.704	0.01	76.1	-3.19	H
LC0031	1.04	0.05	112	1.65	
LC0032	0.904	0.181	97.7	-0.31	
LC0033	-	-	-	-	
LC0034	-	-	-	-	
LC0035	0.868	0.097	93.8	-0.83	
LC0036	0.963	0.193	104	0.54	
LC0037	0.873	0.053	94.3	-0.76	
LC0038	-	-	-	-	
LC0039	0.867	0.06	93.7	-0.84	
LC0040	0.897	0.033	96.9	-0.41	
LC0041	-	-	-	-	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Total-P (as PO4)

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	1.02	0.03	110	1.36	
LC0043	-	-	-	-	
LC0044	0.9149	0.09	98.9	-0.15	
LC0045	0.923	0.093	99.7	-0.04	
LC0046	0.93	0.093	100	0.07	
LC0047	0.89	0.04	96.2	-0.51	
LC0048	0.893	0.08	96.5	-0.47	
LC0049	0.8933	0.0424	96.5	-0.46	
LC0050	0.8	0.02	86.4	-1.81	
LC0051	1.01	0.2	109	1.22	
LC0052	0.97	0.31	105	0.64	
LC0053	0.996	0.0635	108	1.02	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	0.839	0.02	90.7	-1.25	
LC0057	-	-	-	-	
LC0058	0.95	0.15	103	0.35	
LC0059	0.89	0.08	96.2	-0.51	
LC0060	0.916	0.02	99	-0.14	
LC0061	0.923	0.1386	99.7	-0.04	
LC0062	-	-	-	-	
LC0063	0.946	0.004	102	0.3	
LC0064	-	-	-	-	
LC0065	0.912	0.07	98.5	-0.19	
LC0066	0.908	0.13	98.1	-0.25	
LC0067	0.945	0.085	102	0.28	
LC0068	1.14	0.13	123	3.09	H
LC0069	0.971	0.08	105	0.66	
LC0070	0.923	0.138	99.7	-0.04	
LC0071	0.945	0.018	102	0.28	
LC0072	0.897	0.0048	96.9	-0.41	
LC0073	0.876	0.0276	94.7	-0.71	
LC0074	0.91366	0.052	98.7	-0.17	
LC0075	1.056	0.101	114	1.88	
LC0076	0.935	0.24	101	0.14	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	0.045	0.005	4.9	-12.7	H
LC0080	1.151	0.0055	124	3.25	H
LC0081	1.017	0.021	110	1.32	
LC0082	-	-	-	-	

Characteristics of parameter

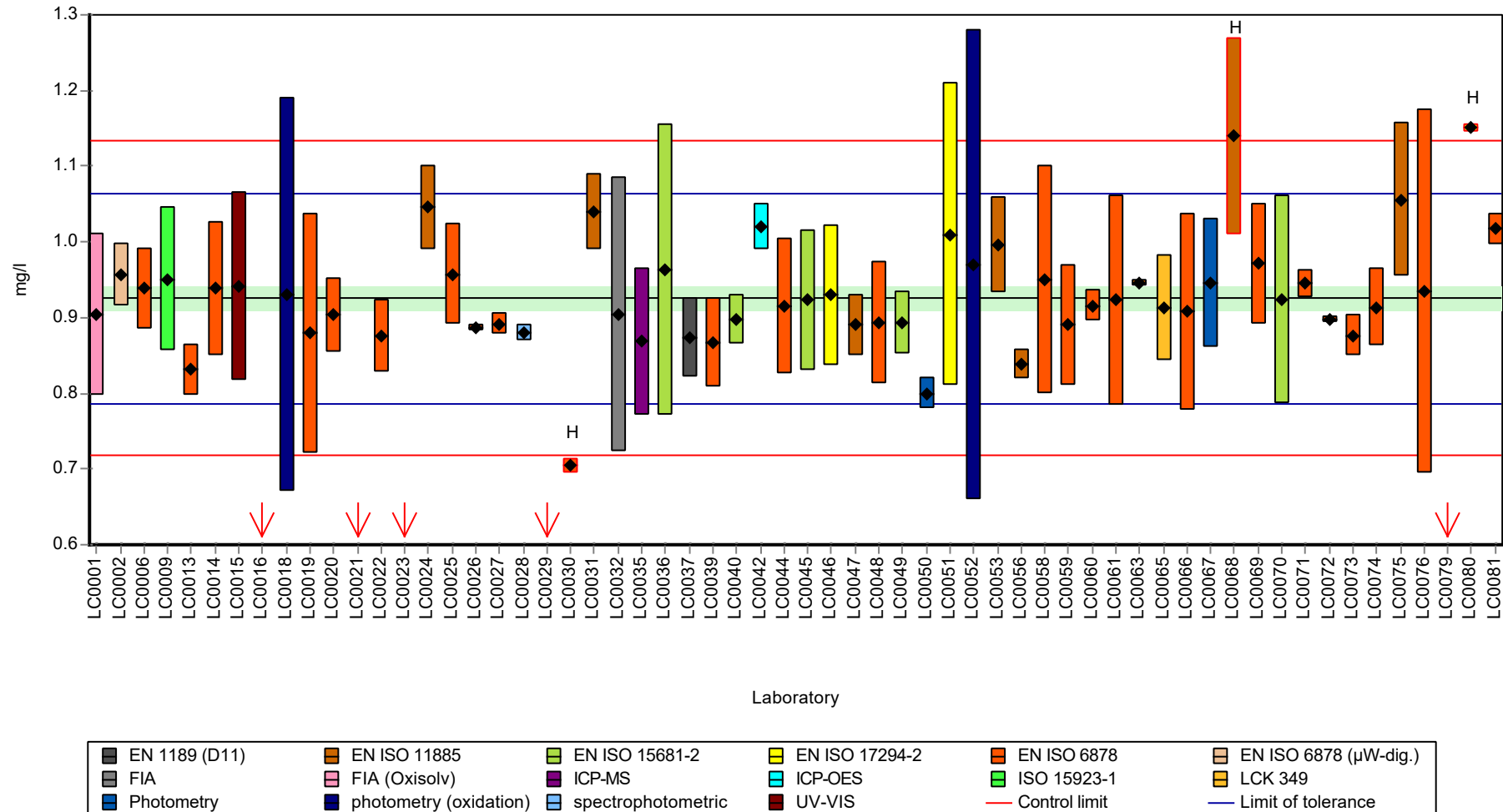
	all results	without outliers	Unit
Mean ± CI (99%)	0.871 ± 0.0817	0.925 ± 0.0223	mg/l
Minimum	0.045	0.8	mg/l
Maximum	1.15	1.06	mg/l
Standard deviation	0.211	0.0536	mg/l
rel. standard deviation	24.2	5.79	%
n	60	52	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Total-P (as PO4)

Graphical presentation of results

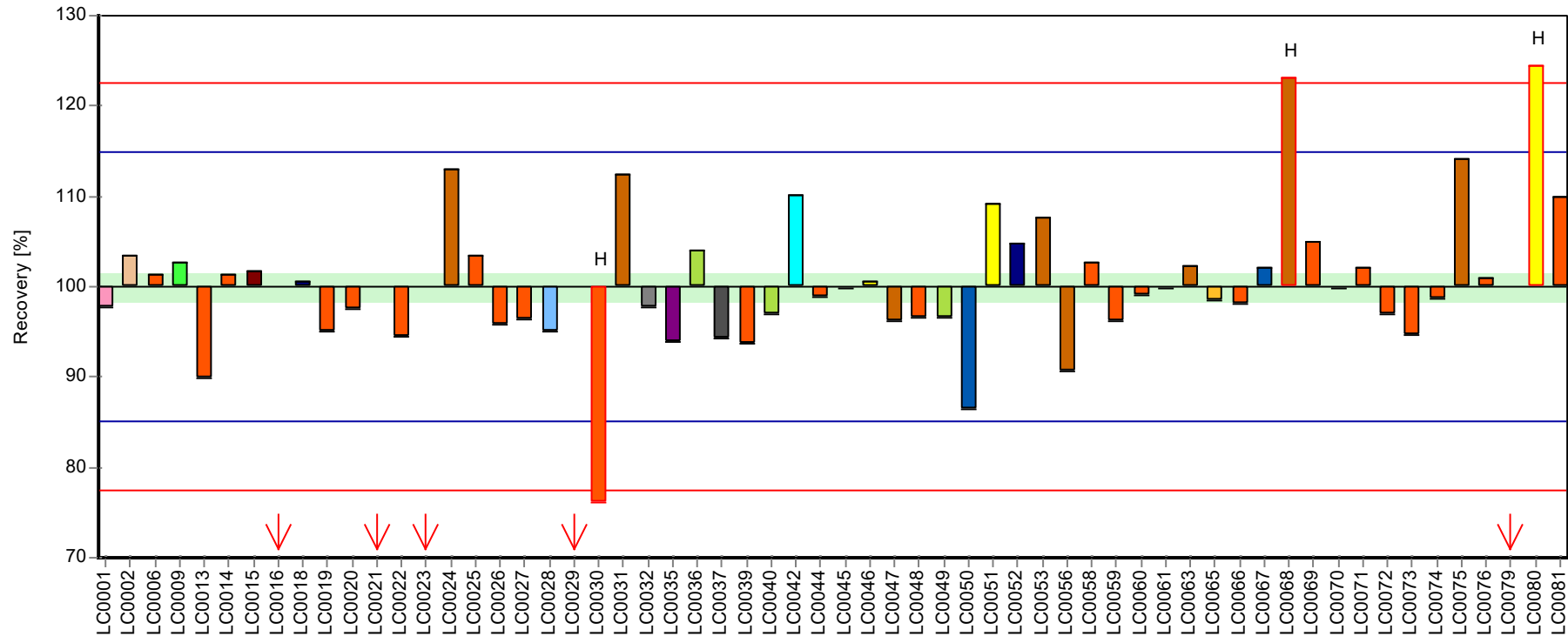
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Total-P (as PO4)

Recovery rate



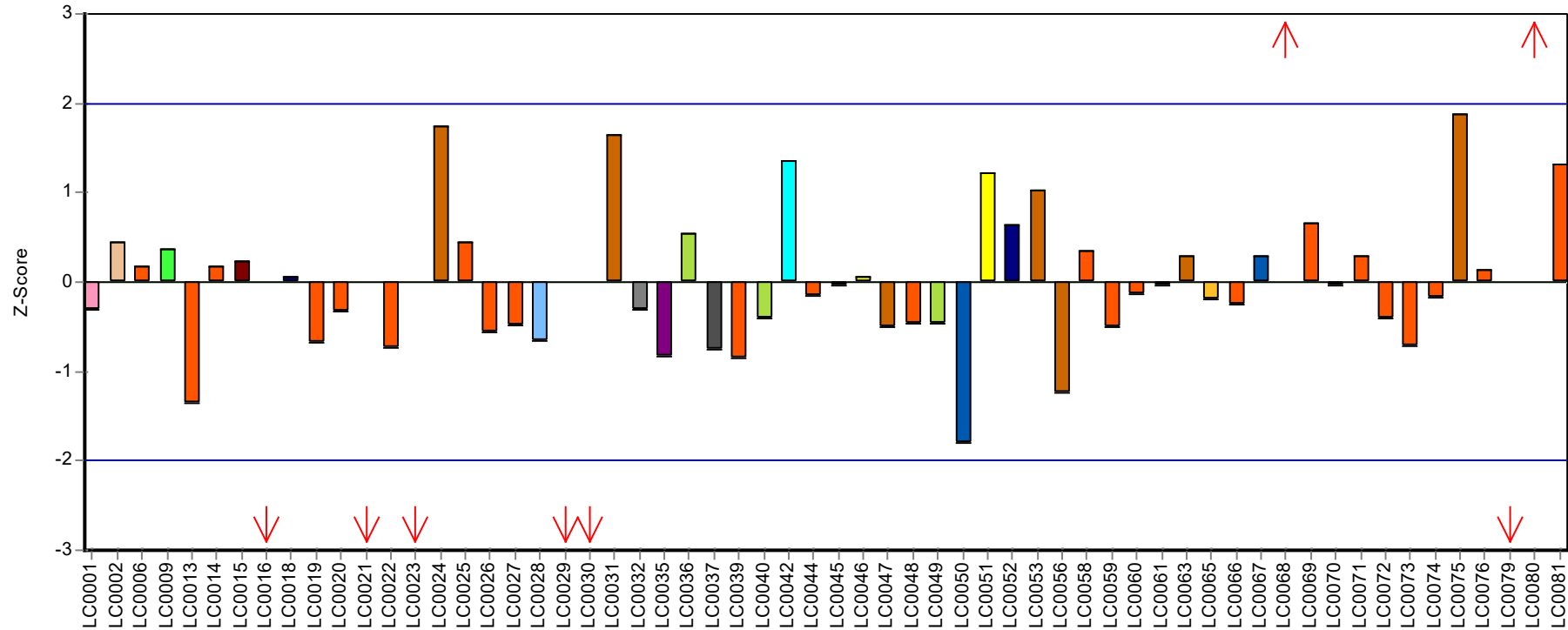
Laboratory

EN 1189 (D11)	EN ISO 11885	EN ISO 15681-2	EN ISO 17294-2	EN ISO 6878	EN ISO 6878 (µW-dig.)
FIA	FIA (Oxisolv)	ICP-MS	ICP-OES	ISO 15923-1	LCK 349
Photometry	photometry (oxidation)	spectrophotometric	UV-VIS	Control limit	Limit of tolerance

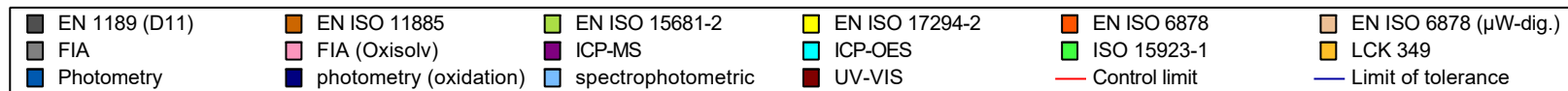
Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Total-P (as PO4)

Z-score



Laboratory



Parameter oriented report

N160 A

Total hardness

Unit	mmol/l
Assigned value ± U (k=2)	5 ± 0.0376
Criterion	0.15 (3 %)
Minimum - Maximum	4.7 - 5.27
Control test value ± U (k=2)	4.80 ± 0.48

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	4.908	0.245	98.1	-0.64	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	5.21	0.2	104	1.37	
LC0006	4.8	0.4	95.9	-1.36	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	5.11	0.26	102	0.7	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	5.12	0.53	102	0.77	
LC0013	-	-	-	-	
LC0014	3.58	0.07	71.5	-9.49	H
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	5.27	0.26	105	1.77	
LC0018	5.01	0.4	100	0.04	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	5	1.5	99.9	-0.03	
LC0022	-	-	-	-	
LC0023	5	0.05	99.9	-0.03	
LC0024	5.25	0.47	105	1.64	
LC0025	5.03	0.4	101	0.17	
LC0026	5.03	0.1	101	0.17	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	5.1	0.75	102	0.64	
LC0031	4.97	0.25	99.3	-0.23	
LC0032	5.05	0.4	101	0.3	
LC0033	-	-	-	-	
LC0034	4.97	0.5	99.3	-0.23	
LC0035	4.8	0.54	95.9	-1.36	
LC0036	4.83	0.48	96.5	-1.16	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	4.86	0.5	97.1	-0.96	
LC0040	5.12	0.18	102	0.77	
LC0041	5.08	0.51	102	0.5	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Total hardness

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	4.884	0.025	97.6	-0.8	
LC0043	-	-	-	-	
LC0044	4.76	0.4	95.1	-1.63	
LC0045	4.88	0.48	97.5	-0.83	
LC0046	3.78	0.378	75.5	-8.16	H
LC0047	5.06	0.12	101	0.37	
LC0048	-	-	-	-	
LC0049	-	-	-	-	
LC0050	4.9	0.21	97.9	-0.7	
LC0051	5.1	1	102	0.64	
LC0052	5.14	0.41	103	0.9	
LC0053	5.03	0.32	101	0.17	
LC0054	5.051	0.575	101	0.31	
LC0055	-	-	-	-	
LC0056	4.72	0.22	94.3	-1.89	
LC0057	4.7	0.2	93.9	-2.03	
LC0058	5.136	0.683	103	0.88	
LC0059	5.1	0.3	102	0.64	
LC0060	5.04	0.15	101	0.24	
LC0061	4.95	0.495	98.9	-0.36	
LC0062	4.43	0.44	88.5	-3.83	H
LC0063	4.95	0.04	98.9	-0.36	
LC0064	5	0.48	99.9	-0.03	
LC0065	5.04	0.29	101	0.24	
LC0066	5.04	0.26	101	0.24	
LC0067	4.96	0.31	99.1	-0.3	
LC0068	4.9	0.2	97.9	-0.7	
LC0069	-	-	-	-	
LC0070	-	-	-	-	
LC0071	5.05	0.079	101	0.3	
LC0072	-	-	-	-	
LC0073	5.06	0.0342	101	0.37	
LC0074	-	-	-	-	
LC0075	5.14	0.35	103	0.9	
LC0076	5.1	1	102	0.64	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	9.81	0.98	196	32	H
LC0080	0.0964	0.0033	1.9	-32.7	H
LC0081	5	0.24	99.9	-0.03	
LC0082	-	-	-	-	

Characteristics of parameter

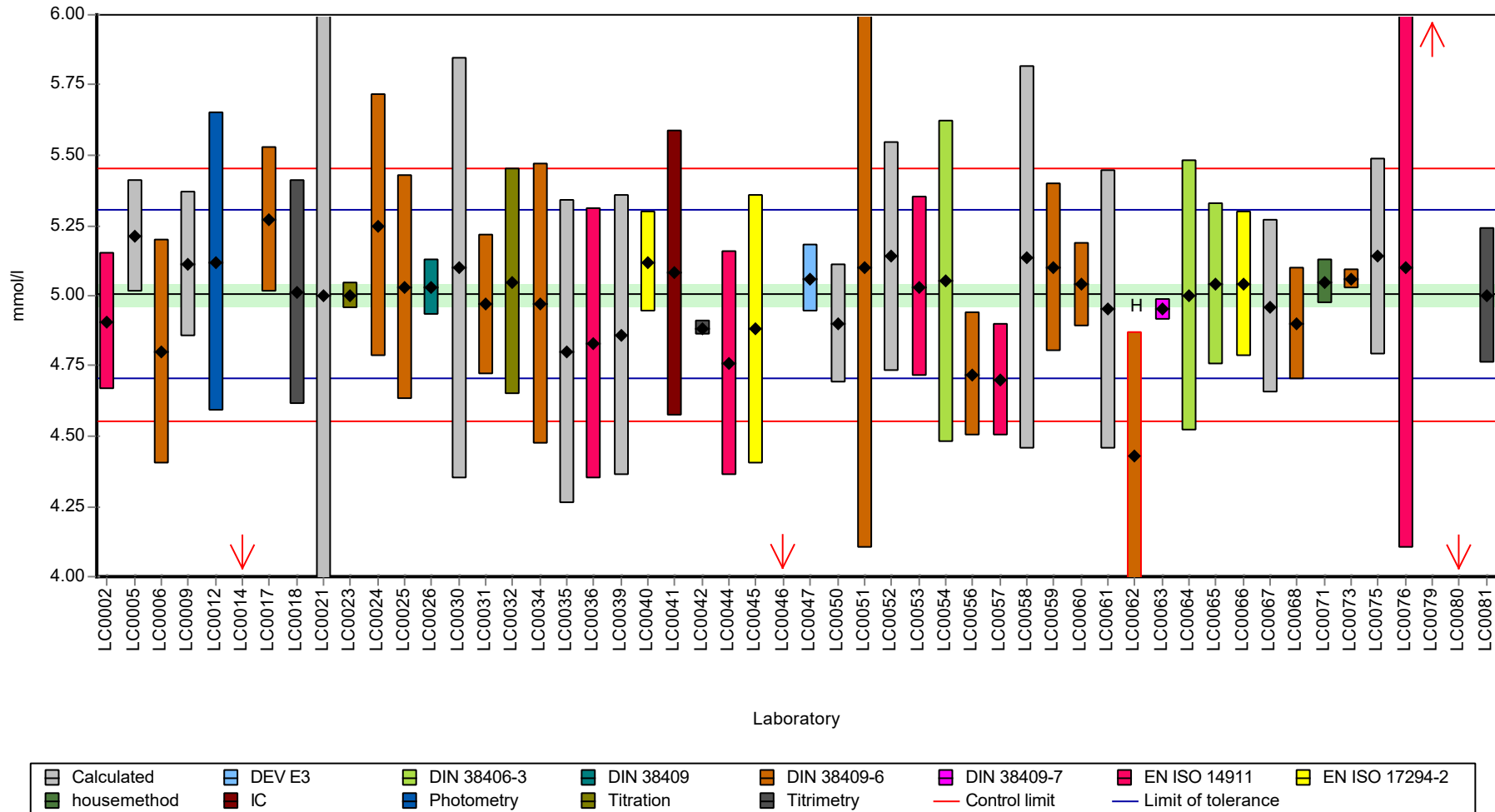
	all results	without outliers	Unit
Mean ± CI (99%)	4.94 ± 0.418	5 ± 0.0564	mmol/l
Minimum	0.0964	4.7	mmol/l
Maximum	9.81	5.27	mmol/l
Standard deviation	1.01	0.129	mmol/l
rel. standard deviation	20.4	2.58	%
n	52	47	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Total hardness

Graphical presentation of results

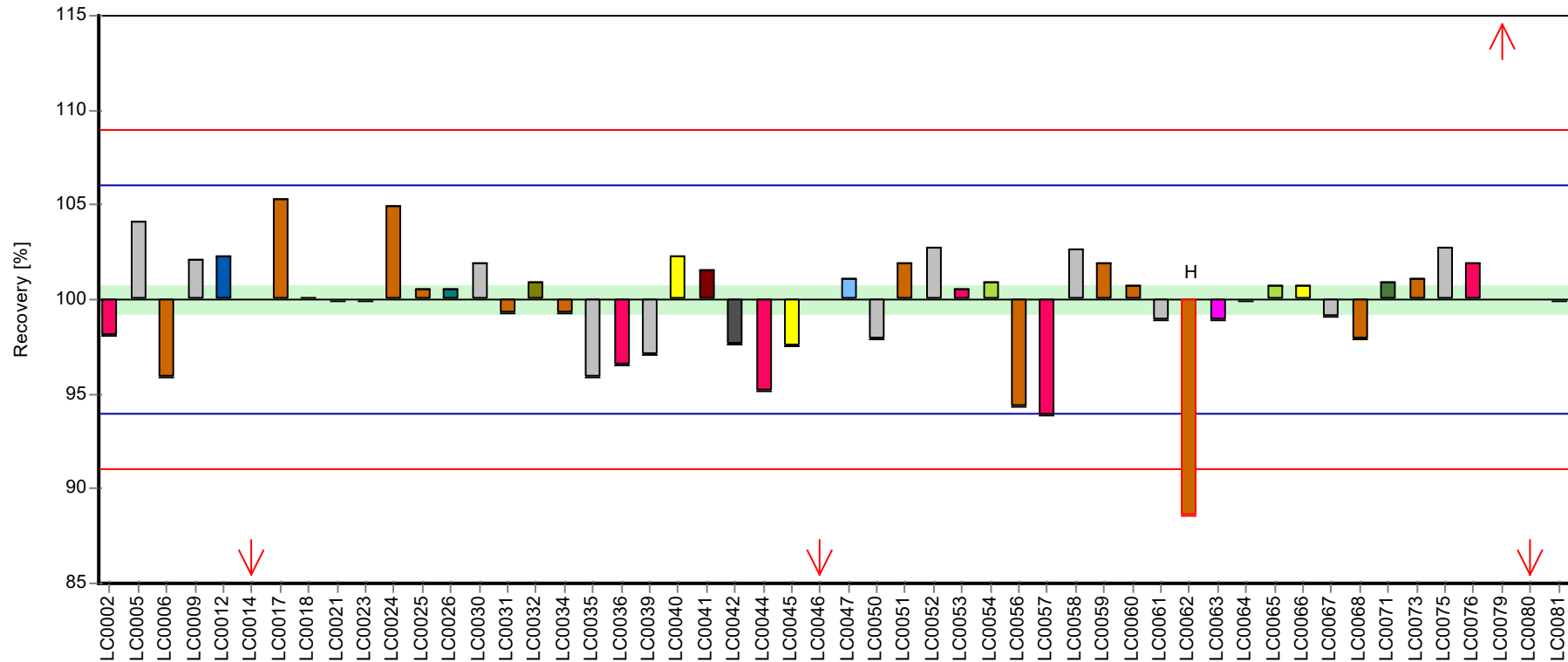
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Total hardness

Recovery rate



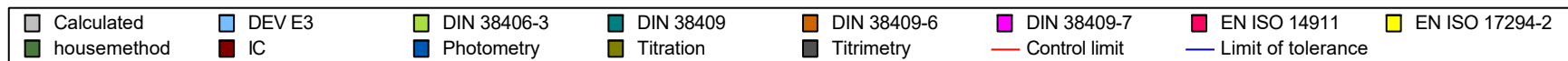
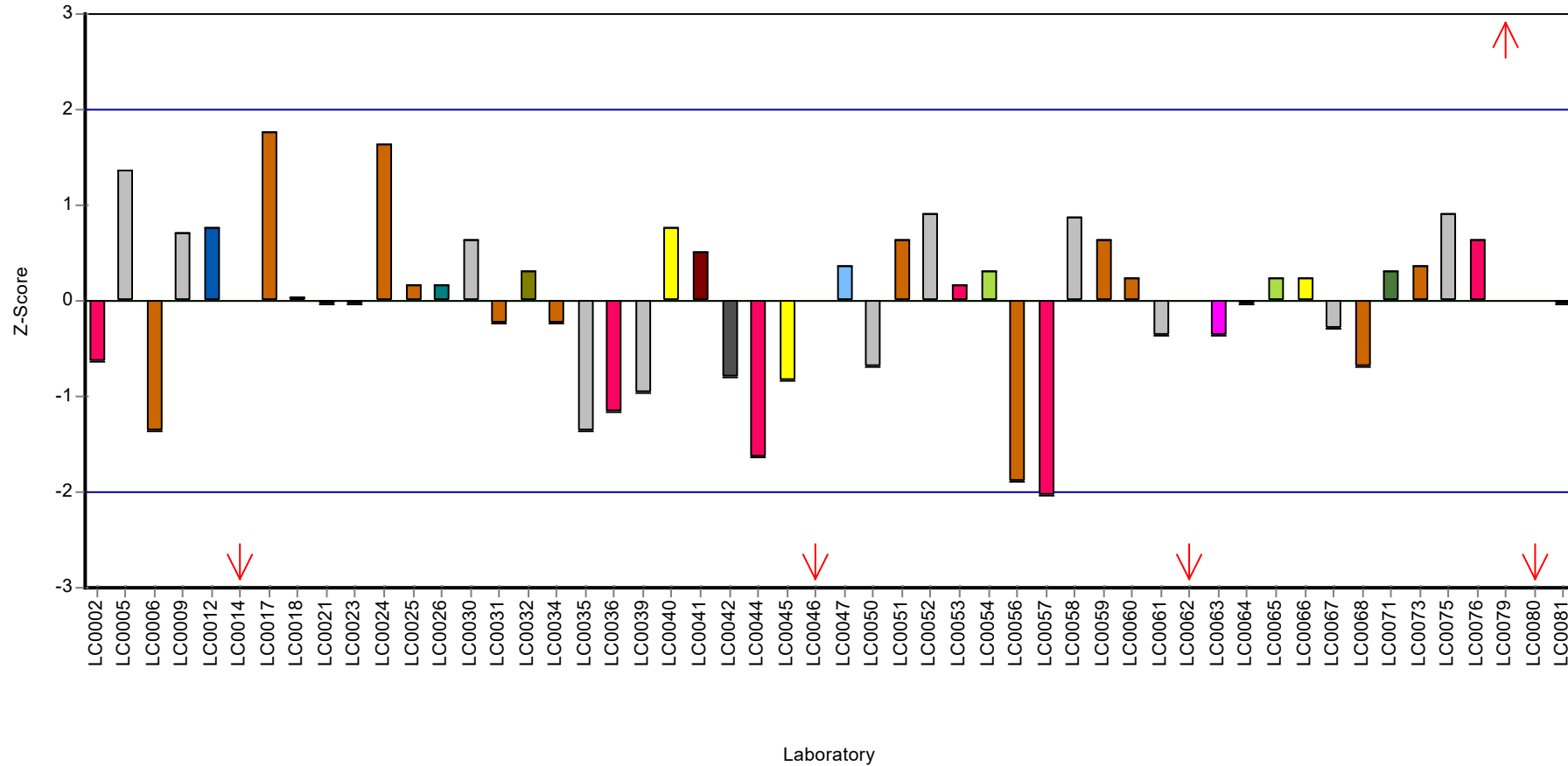
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Total hardness

Z-score



Parameter oriented report

N160 B

Total hardness

Unit	mmol/l
Assigned value ± U (k=2)	2.14 ± 0.0185
Criterion	0.0643 (3 %)
Minimum - Maximum	2 - 2.27
Control test value ± U (k=2)	2.10 ± 0.21

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	-	-	-	-	
LC0002	2.168	0.108	101	0.36	
LC0003	-	-	-	-	
LC0004	-	-	-	-	
LC0005	2.22	0.087	104	1.17	
LC0006	2	0.16	93.3	-2.25	
LC0007	-	-	-	-	
LC0008	-	-	-	-	
LC0009	2.11	0.11	98.4	-0.54	
LC0010	-	-	-	-	
LC0011	-	-	-	-	
LC0012	2.18	0.53	102	0.55	
LC0013	-	-	-	-	
LC0014	2.16	0.04	101	0.24	
LC0015	-	-	-	-	
LC0016	-	-	-	-	
LC0017	2.33	0.12	109	2.88	H
LC0018	2.14	0.17	99.8	-0.07	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	2.132	0.64	99.4	-0.2	
LC0022	-	-	-	-	
LC0023	2.15	0.02	100	0.08	
LC0024	2.26	0.2	105	1.79	
LC0025	2.07	0.17	96.5	-1.16	
LC0026	2.155	0.1	100	0.16	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	2.2	0.3	103	0.86	
LC0031	2.02	0.1	94.2	-1.94	
LC0032	2.09	0.17	97.4	-0.85	
LC0033	-	-	-	-	
LC0034	2.13	0.21	99.3	-0.23	
LC0035	2	0.28	93.3	-2.25	
LC0036	2.27	0.23	106	1.95	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	2.09	0.2	97.4	-0.85	
LC0040	2.22	0.021	104	1.17	
LC0041	2.18	0.22	102	0.55	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Total hardness

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	2.107	0.025	98.2	-0.59	
LC0043	-	-	-	-	
LC0044	2.12	0.2	98.8	-0.38	
LC0045	2.09	0.21	97.4	-0.85	
LC0046	1.62	0.162	75.5	-8.16	H
LC0047	2.1	0.05	97.9	-0.69	
LC0048	-	-	-	-	
LC0049	-	-	-	-	
LC0050	2.1	0.06	97.9	-0.69	
LC0051	2.19	0.4	102	0.7	
LC0052	2.2	0.18	103	0.86	
LC0053	2.14	0.136	99.8	-0.07	
LC0054	2.143	0.2437	99.9	-0.03	
LC0055	-	-	-	-	
LC0056	2.04	0.22	95.1	-1.63	
LC0057	2.13	0.11	99.3	-0.23	
LC0058	2.172	0.289	101	0.42	
LC0059	2.19	0.1	102	0.7	
LC0060	2.14	0.05	99.8	-0.07	
LC0061	2.1	0.21	97.9	-0.69	
LC0062	2.17	0.22	101	0.39	
LC0063	2.16	0.01	101	0.24	
LC0064	2.24	0.48	104	1.48	
LC0065	2.14	0.12	99.8	-0.07	
LC0066	2.16	0.11	101	0.24	
LC0067	2.13	0.15	99.3	-0.23	
LC0068	2.1	0.1	97.9	-0.69	
LC0069	-	-	-	-	
LC0070	-	-	-	-	
LC0071	2.23	0.019	104	1.33	
LC0072	-	-	-	-	
LC0073	2.22	0.0185	104	1.17	
LC0074	-	-	-	-	
LC0075	2.244	0.15	105	1.54	
LC0076	2.1	0.4	97.9	-0.69	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	4.21	0.42	196	32.1	H
LC0080	0.0429	0.0027	2	-32.7	H
LC0081	1.017	0.02	47.4	-17.5	H
LC0082	-	-	-	-	

Characteristics of parameter

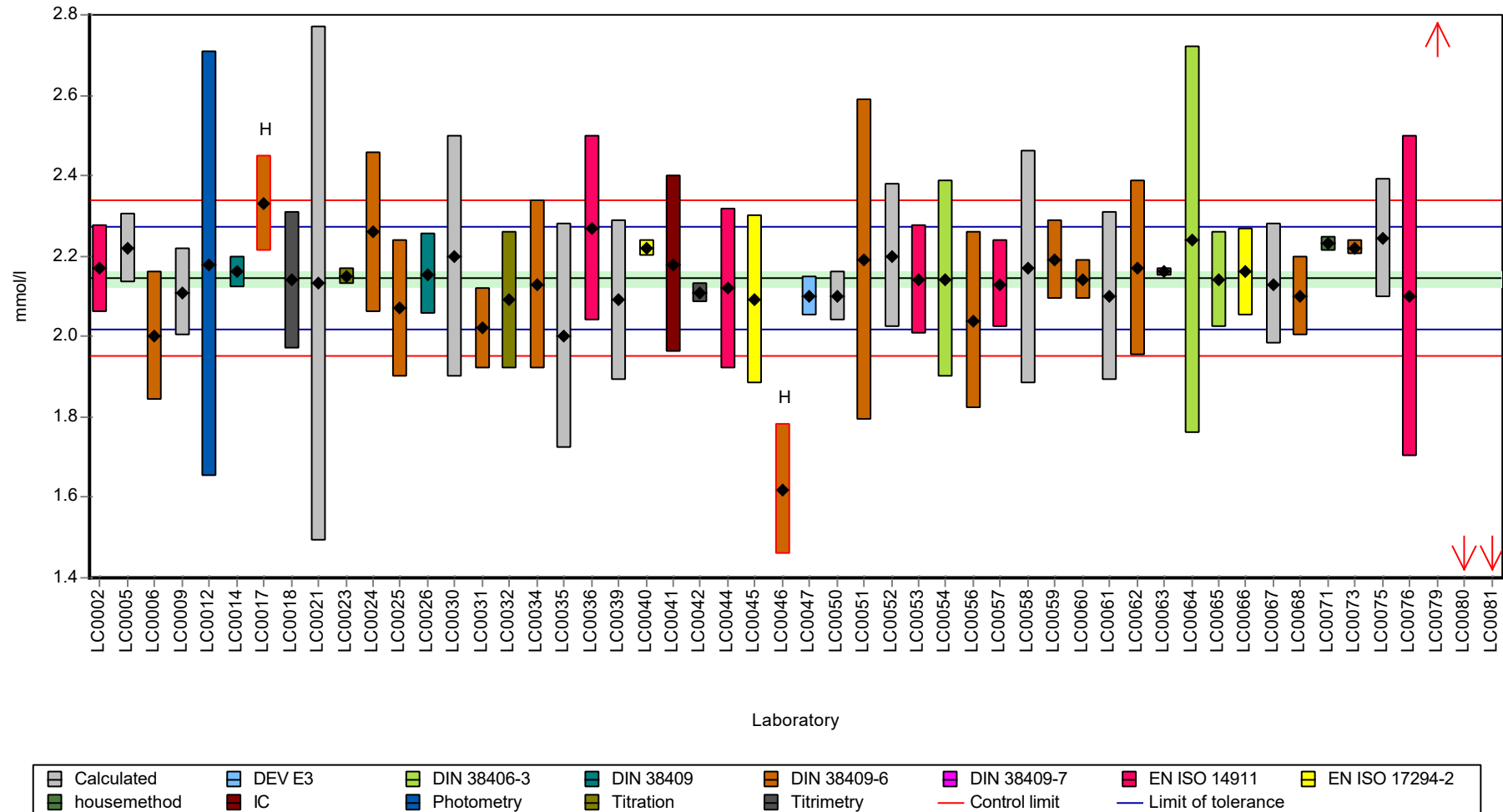
	all results	without outliers	Unit
Mean ± CI (99%)	2.12 ± 0.188	2.14 ± 0.0277	mmol/l
Minimum	0.0429	2	mmol/l
Maximum	4.21	2.27	mmol/l
Standard deviation	0.452	0.0634	mmol/l
rel. standard deviation	21.3	2.96	%
n	52	47	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Total hardness

Graphical presentation of results

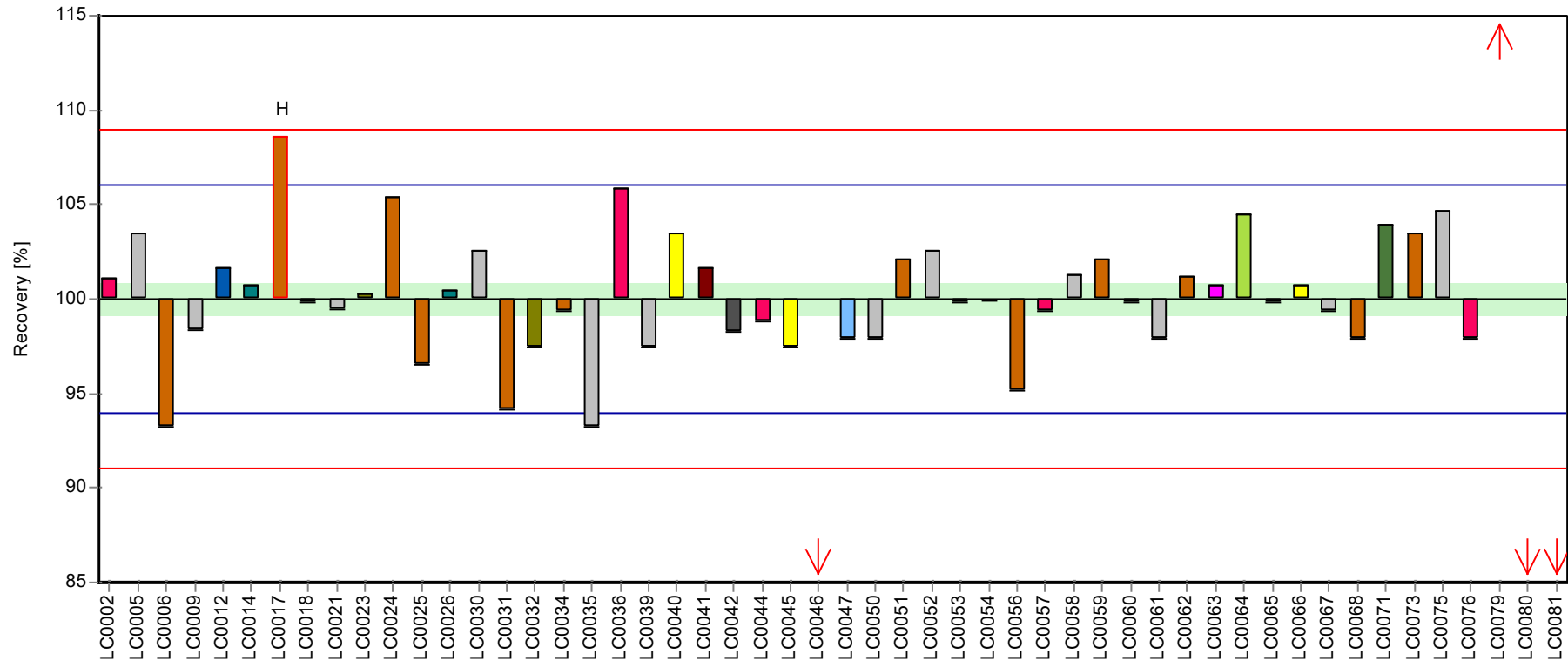
Results



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Total hardness

Recovery rate



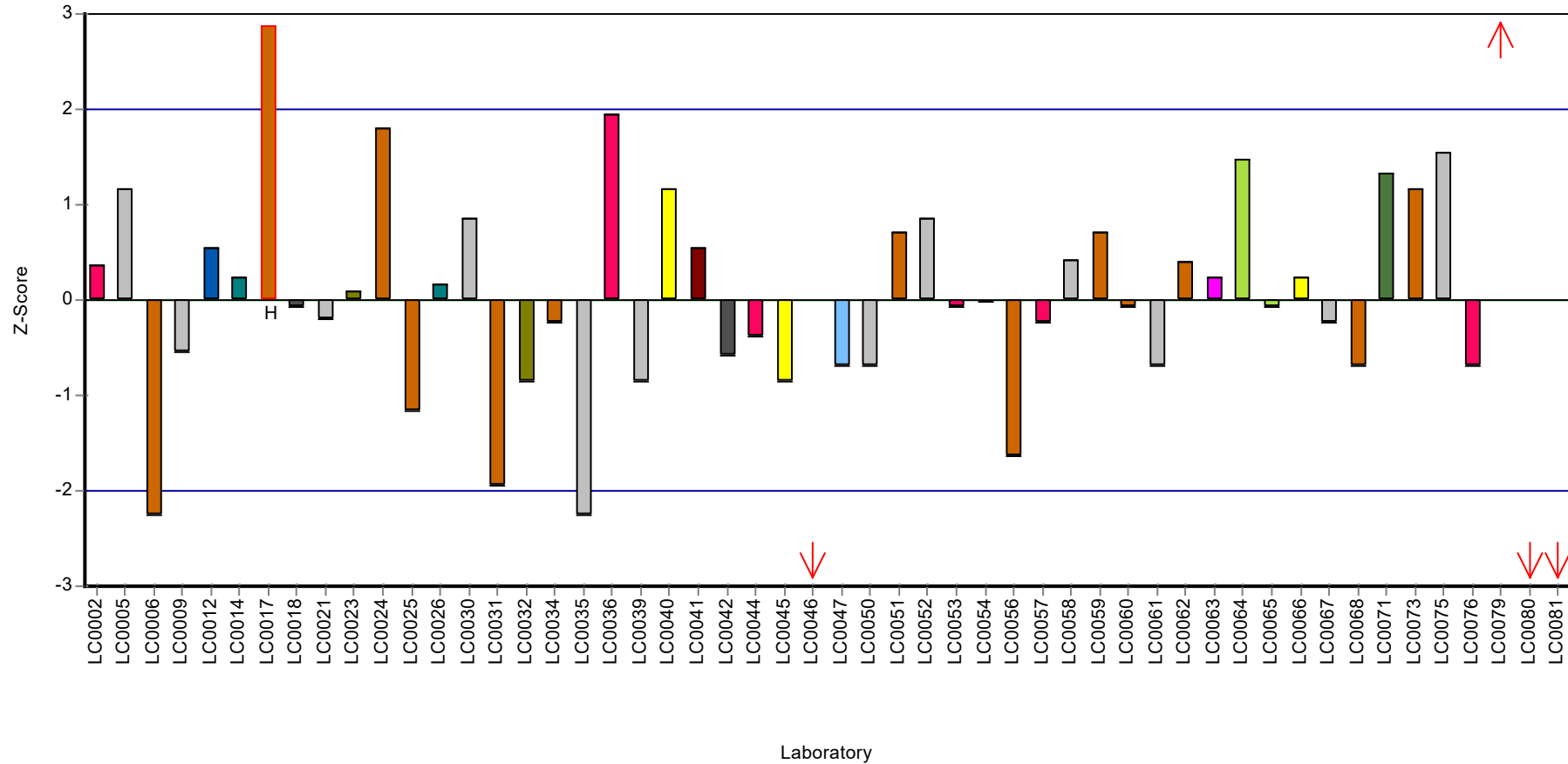
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Total hardness

Z-score



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Total nitrogen

Parameter oriented report

N160 A

Total nitrogen

Unit	mg/l
Assigned value ± U (k=2)	5.67 ± 0.147
Criterion	0.47 (8.3 %)
Minimum - Maximum	4.99 - 6.75
Control test value ± U (k=2)	5.770 ± 0.866

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	4.99	0.713	88.1	-1.44	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	5.7	0.46	101	0.07	
LC0005	6.16	0.234	109	1.05	
LC0006	6.75	1.1	119	2.31	
LC0007	5.71	1.142	101	0.1	
LC0008	-	-	-	-	
LC0009	5.6	0.57	98.9	-0.14	
LC0010	-	-	-	-	
LC0011	5.32	0.27	93.9	-0.73	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	6.34	0.351	112	1.44	
LC0015	-	-	-	-	
LC0016	5.72	0.7	101	0.12	
LC0017	-	-	-	-	
LC0018	5.66	1.13	99.9	-0.01	
LC0019	-	-	-	-	
LC0020	5.61	0.28	99	-0.12	
LC0021	-	-	-	-	
LC0022	-	-	-	-	
LC0023	-	-	-	-	
LC0024	-	-	-	-	
LC0025	5.62	0.84	99.2	-0.1	
LC0026	5.287	0.2	93.3	-0.8	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	5.25	0.52	92.7	-0.88	
LC0031	6.3	0.76	111	1.35	
LC0032	5.44	0.11	96	-0.48	
LC0033	-	-	-	-	
LC0034	< 10 (LOQ)	-	-	-	
LC0035	-	-	-	-	
LC0036	5.75	0.58	101	0.18	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	-	-	-	-	
LC0040	5.34	0.031	94.3	-0.69	
LC0041	-	-	-	-	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Total nitrogen

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	-	-	-	-	
LC0044	5.88	0.5	104	0.46	
LC0045	5.89	0.589	104	0.48	
LC0046	5.05	0.505	89.1	-1.31	
LC0047	-	-	-	-	
LC0048	-	-	-	-	
LC0049	5.44	0.406	96	-0.48	
LC0050	5.89	0.03	104	0.48	
LC0051	-	-	-	-	
LC0052	5.4	1.26	95.3	-0.56	
LC0053	5.27	0.524	93	-0.84	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	5.43	0.8	95.9	-0.5	
LC0057	-	-	-	-	
LC0058	5.1	0.51	90	-1.2	
LC0059	-	-	-	-	
LC0060	-	-	-	-	
LC0061	-	-	-	-	
LC0062	-	-	-	-	
LC0063	-	-	-	-	
LC0064	-	-	-	-	
LC0065	-	-	-	-	
LC0066	6	0.8	106	0.71	
LC0067	6.1	0.67	108	0.93	
LC0068	5.89	1.6	104	0.48	
LC0069	-	-	-	-	
LC0070	-	-	-	-	
LC0071	-	-	-	-	
LC0072	-	-	-	-	
LC0073	6.44	0.0753	114	1.65	
LC0074	-	-	-	-	
LC0075	7.911	1	140	4.78	H
LC0076	5.3	1.1	93.6	-0.78	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	5.32	0.53	93.9	-0.73	
LC0080	-	-	-	-	
LC0081	-	-	-	-	
LC0082	-	-	-	-	

Characteristics of parameter

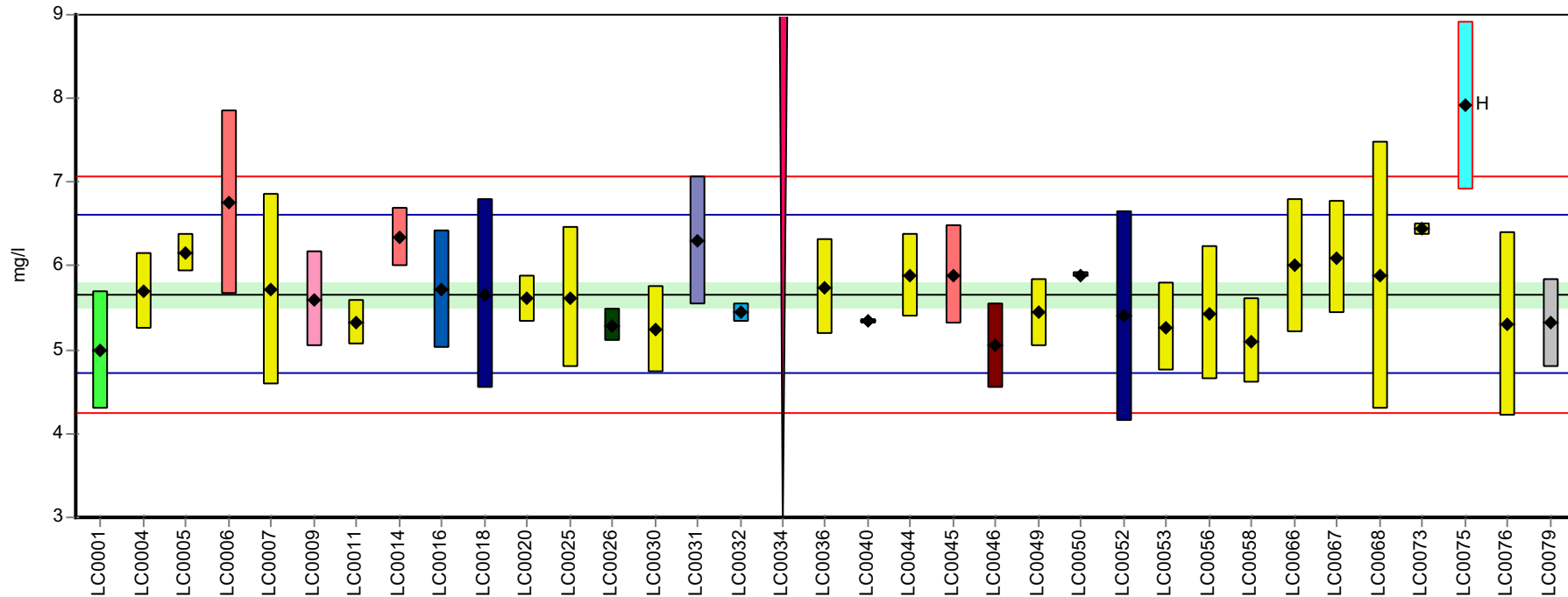
	all results	without outliers	Unit
Mean ± CI (99%)	5.73 ± 0.292	5.67 ± 0.221	mg/l
Minimum	4.99	4.99	mg/l
Maximum	7.91	6.75	mg/l
Standard deviation	0.568	0.423	mg/l
rel. standard deviation	9.9	7.47	%
n	34	33	-

Parameter oriented report Nutrients/Major Ions N160

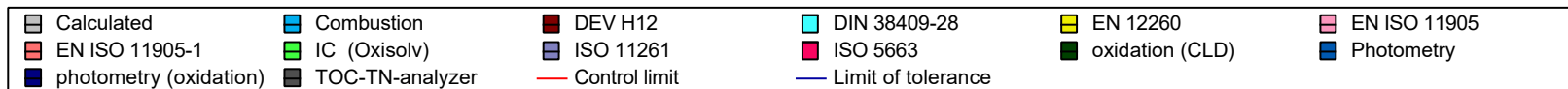
Sample: N160A, Parameter: Total nitrogen

Graphical presentation of results

Results



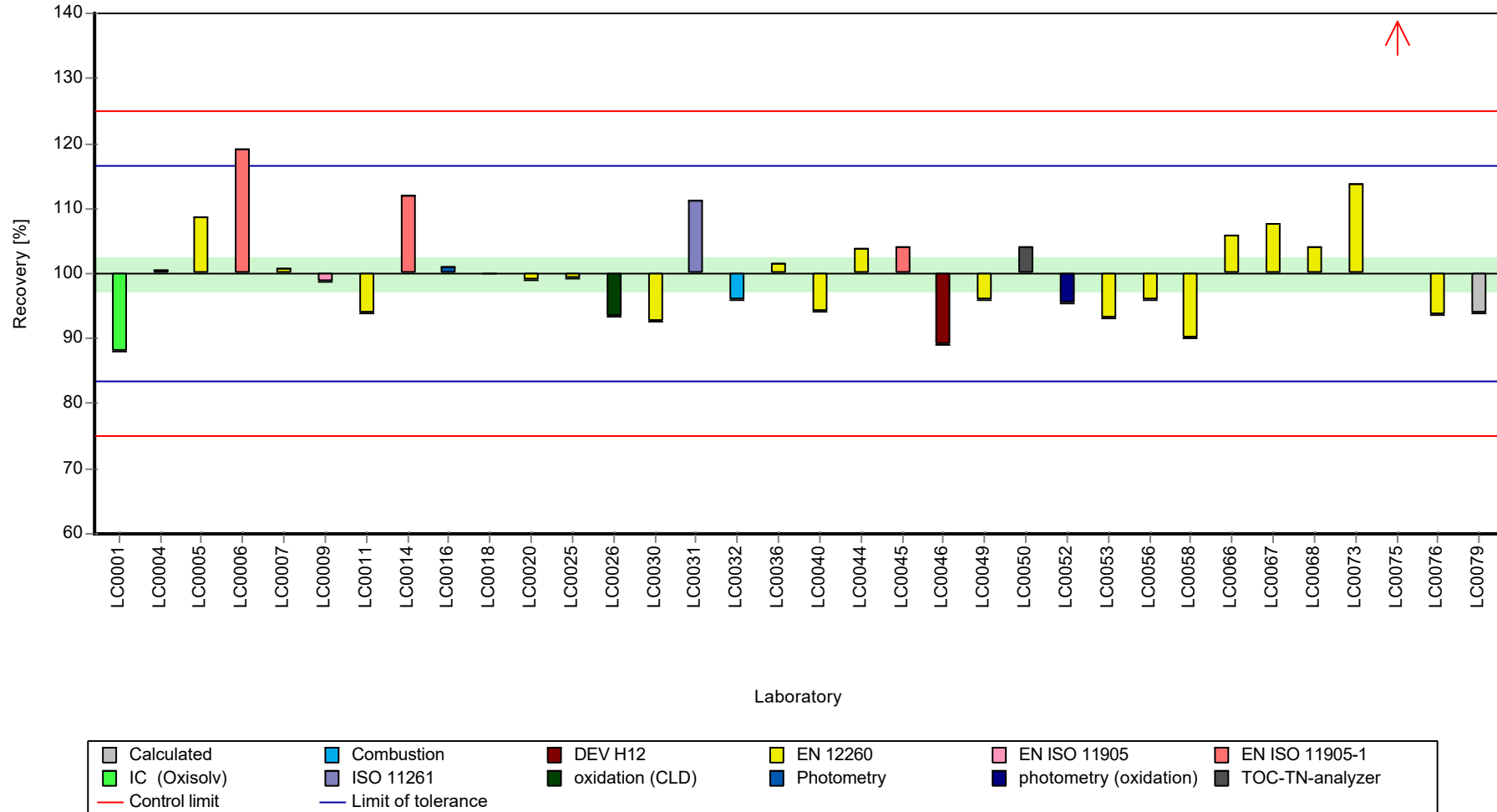
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Total nitrogen

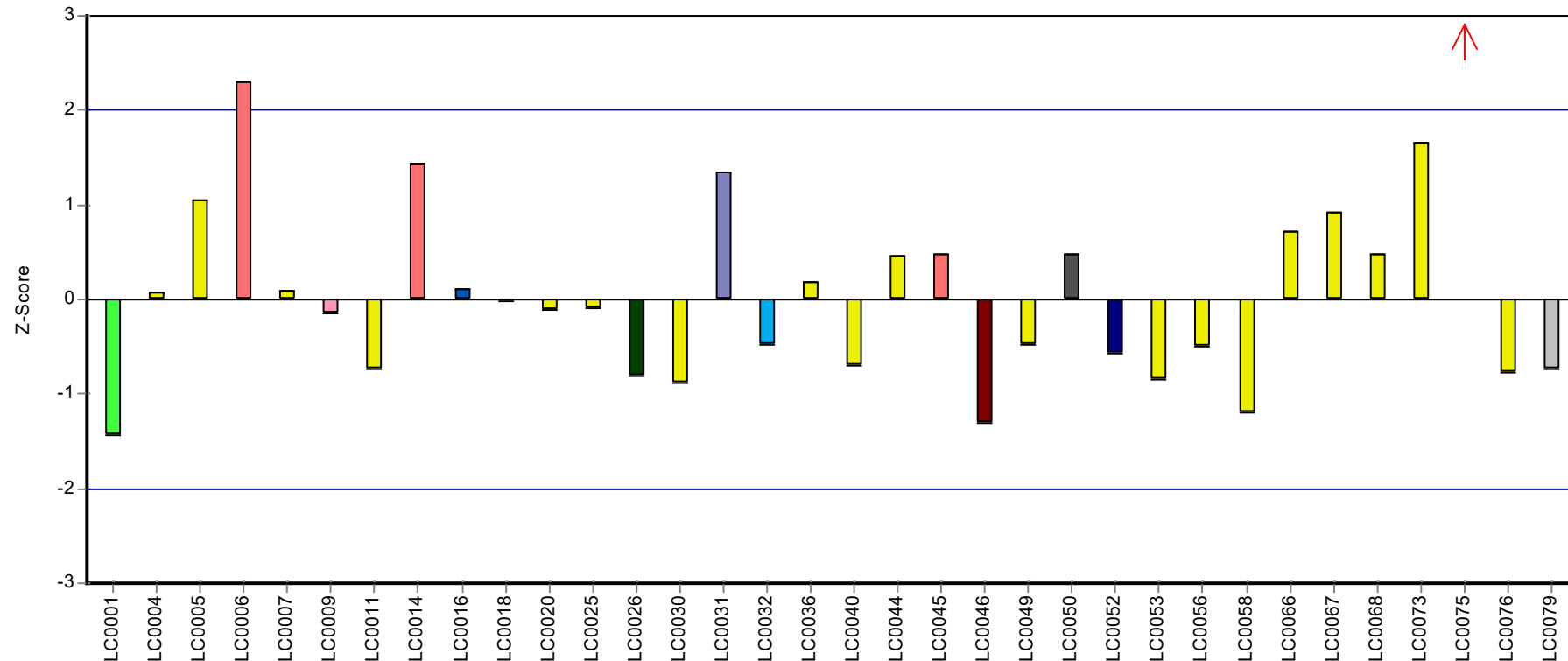
Recovery rate



Parameter oriented report Nutrients/Major Ions N160

Sample: N160A, Parameter: Total nitrogen

Z-score



Laboratory



Parameter oriented report

N160 B

Total nitrogen

Unit	mg/l
Assigned value ± U (k=2)	3.42 ± 0.0995
Criterion	0.284 (8.3 %)
Minimum - Maximum	2.9 - 4.02
Control test value ± U (k=2)	3.590 ± 0.539

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	3.032	0.433	88.7	-1.36	
LC0002	-	-	-	-	
LC0003	-	-	-	-	
LC0004	3.42	0.27	100	0.00	
LC0005	3.2	0.122	93.6	-0.77	
LC0006	3.6	0.59	105	0.64	
LC0007	3.58	0.716	105	0.57	
LC0008	-	-	-	-	
LC0009	3.54	0.36	104	0.43	
LC0010	-	-	-	-	
LC0011	3.25	0.16	95.1	-0.6	
LC0012	-	-	-	-	
LC0013	-	-	-	-	
LC0014	3.56	0.197	104	0.5	
LC0015	-	-	-	-	
LC0016	3.59	0.44	105	0.6	
LC0017	-	-	-	-	
LC0018	3.75	0.75	110	1.17	
LC0019	-	-	-	-	
LC0020	3.23	0.16	94.5	-0.67	
LC0021	-	-	-	-	
LC0022	-	-	-	-	
LC0023	-	-	-	-	
LC0024	-	-	-	-	
LC0025	3.35	0.5	98	-0.24	
LC0026	3.074	0.2	89.9	-1.22	
LC0027	-	-	-	-	
LC0028	-	-	-	-	
LC0029	-	-	-	-	
LC0030	3.2	0.32	93.6	-0.77	
LC0031	6.58	0.79	192	11.1	H
LC0032	3.18	0.64	93	-0.84	
LC0033	-	-	-	-	
LC0034	< 10 (LOQ)	-	-	-	
LC0035	-	-	-	-	
LC0036	3.38	0.34	98.9	-0.14	
LC0037	-	-	-	-	
LC0038	-	-	-	-	
LC0039	-	-	-	-	
LC0040	3.38	0.061	98.9	-0.14	
LC0041	-	-	-	-	

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Total nitrogen

Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0042	-	-	-	-	
LC0043	-	-	-	-	
LC0044	3.55	0.3	104	0.46	
LC0045	4.02	0.402	118	2.12	
LC0046	3.16	0.32	92.4	-0.91	
LC0047	-	-	-	-	
LC0048	-	-	-	-	
LC0049	3.393	0.253	99.2	-0.09	
LC0050	3.48	0.01	102	0.21	
LC0051	-	-	-	-	
LC0052	3.81	0.99	111	1.38	
LC0053	3.06	0.304	89.5	-1.27	
LC0054	-	-	-	-	
LC0055	-	-	-	-	
LC0056	3.62	0.8	106	0.71	
LC0057	-	-	-	-	
LC0058	2.9	0.29	84.8	-1.83	
LC0059	-	-	-	-	
LC0060	-	-	-	-	
LC0061	-	-	-	-	
LC0062	-	-	-	-	
LC0063	-	-	-	-	
LC0064	-	-	-	-	
LC0065	-	-	-	-	
LC0066	3.6	0.5	105	0.64	
LC0067	3.81	0.42	111	1.38	
LC0068	3.33	0.91	97.4	-0.31	
LC0069	-	-	-	-	
LC0070	-	-	-	-	
LC0071	-	-	-	-	
LC0072	-	-	-	-	
LC0073	4.02	0.0755	118	2.12	
LC0074	-	-	-	-	
LC0075	5.296	0.67	155	6.61	H
LC0076	3.23	0.7	94.5	-0.67	
LC0077	-	-	-	-	
LC0078	-	-	-	-	
LC0079	3.11	0.31	91	-1.09	
LC0080	-	-	-	-	
LC0081	-	-	-	-	
LC0082	-	-	-	-	

Characteristics of parameter

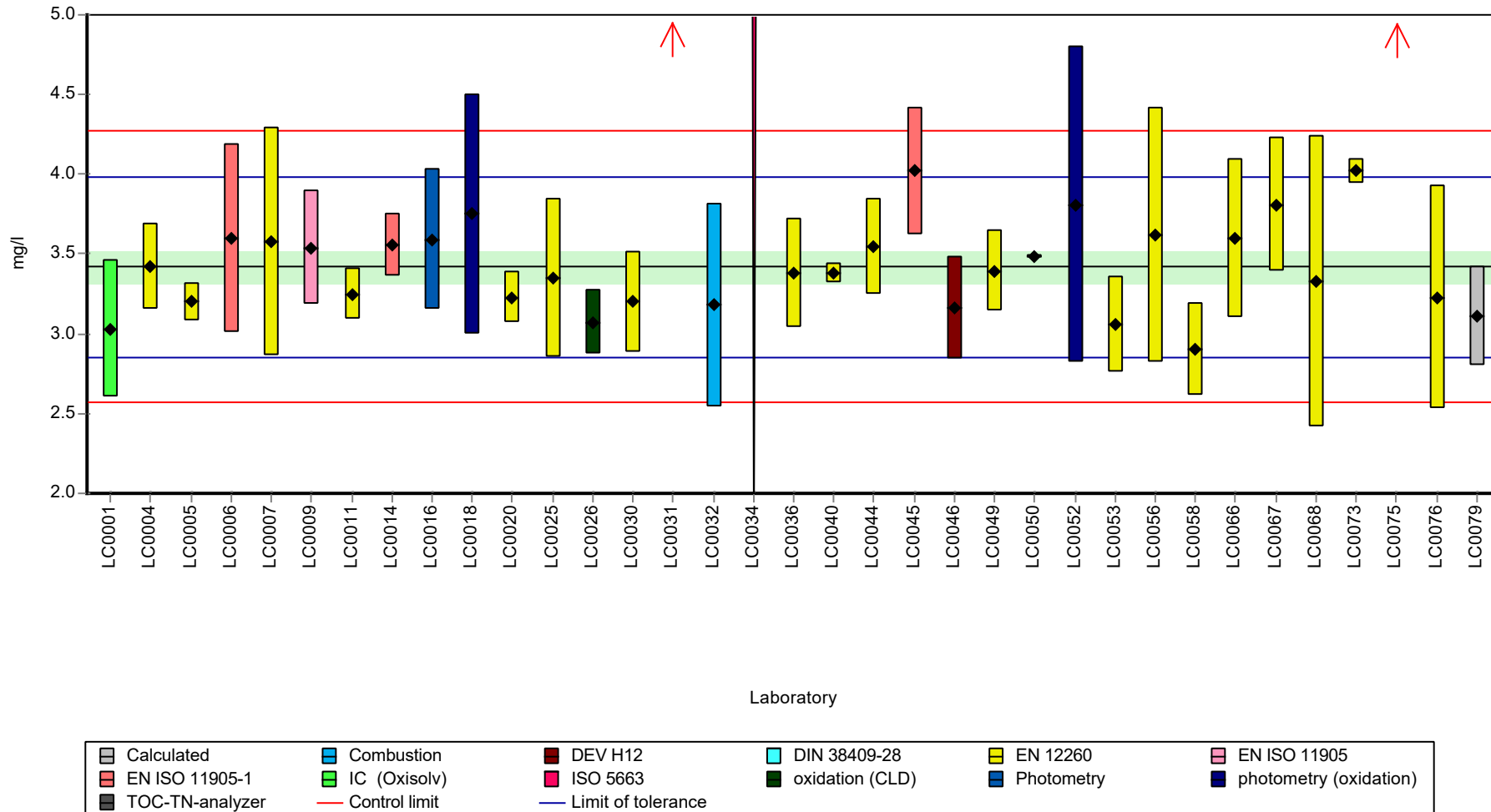
	all results	without outliers	Unit
Mean ± CI (99%)	3.57 ± 0.349	3.42 ± 0.149	mg/l
Minimum	2.9	2.9	mg/l
Maximum	6.58	4.02	mg/l
Standard deviation	0.679	0.281	mg/l
rel. standard deviation	19	8.23	%
n	34	32	-

Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Total nitrogen

Graphical presentation of results

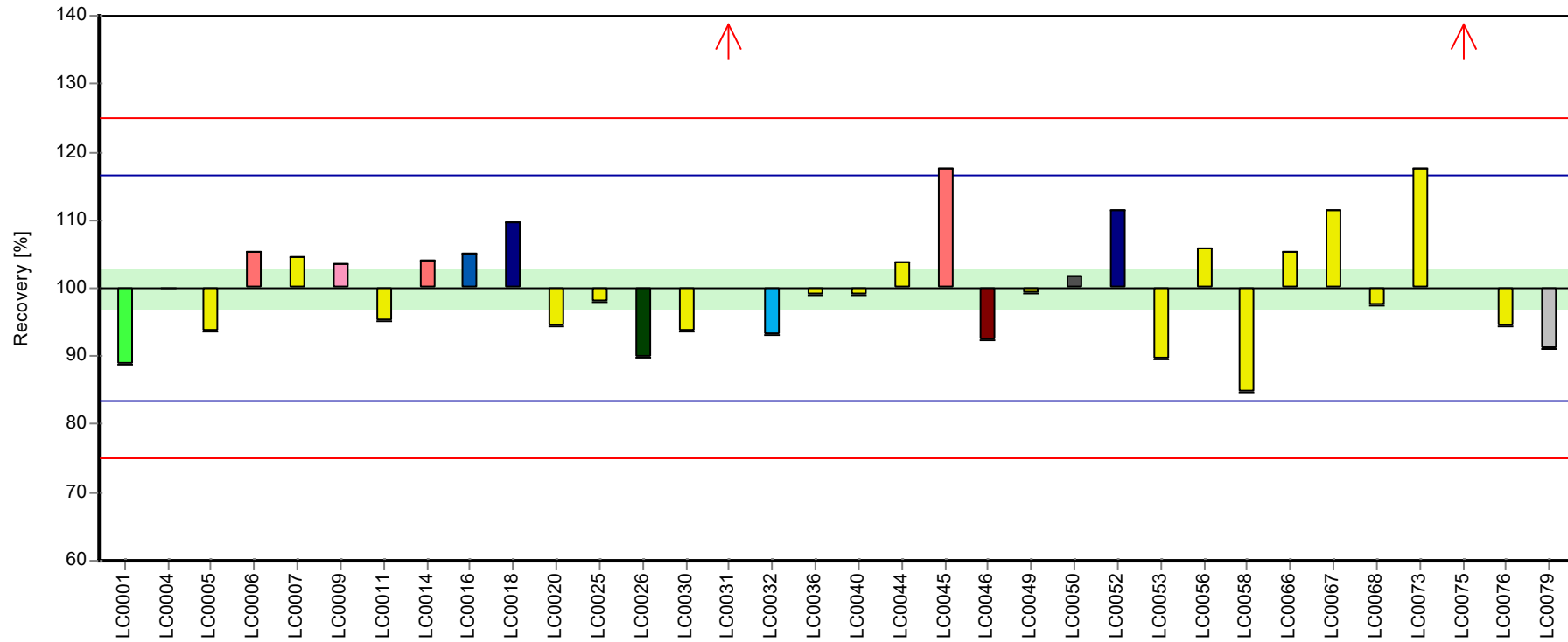
Results



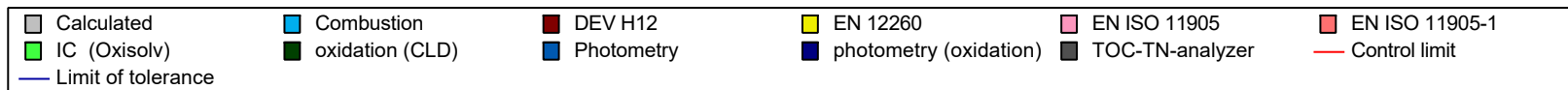
Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Total nitrogen

Recovery rate



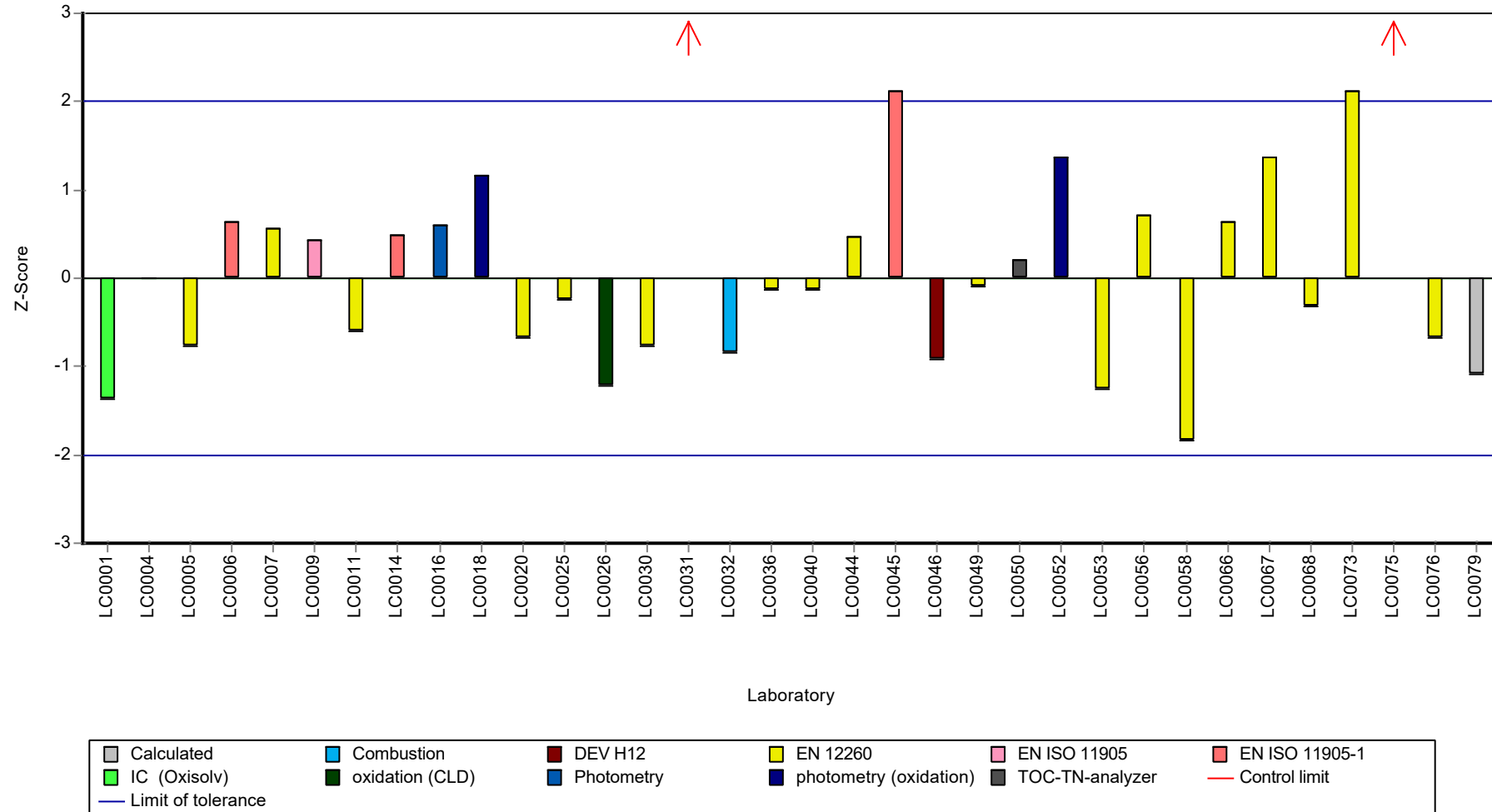
Laboratory



Parameter oriented report Nutrients/Major Ions N160

Sample: N160B, Parameter: Total nitrogen

Z-score



E8. Labororientierte Auswertung / Laboratory oriented report

Die Labororientierte Auswertung ist nach dem Laborcode sortiert.

The laboratory oriented report is sorted by laboratory code.

Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.084 ± 0.019	0.00952	106	0.49
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	71.738 ± 9.383	2.89	99.4	-0.14
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1061 ± 53	13.6	101	0.83
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.019 ± 1.02	1.19	96.8	-0.64
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.293 ± 0.082	0.0153	102	0.30
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.055 ± 0.009	0.00987	89.2	-0.68
pH-value	-	7.69 ± 0.0265	7.57 ± 0.76	0.154	98.5	-0.76
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	52.921 ± 3.223	1.78	98.3	-0.53
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.14 ± 0.137	0.0891	96	-0.54
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	4.99 ± 0.713	0.47	88.1	-1.44

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.145 ± 0.386	0.208	103	0.31

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.303 ± 0.07	0.0341	106	0.54
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

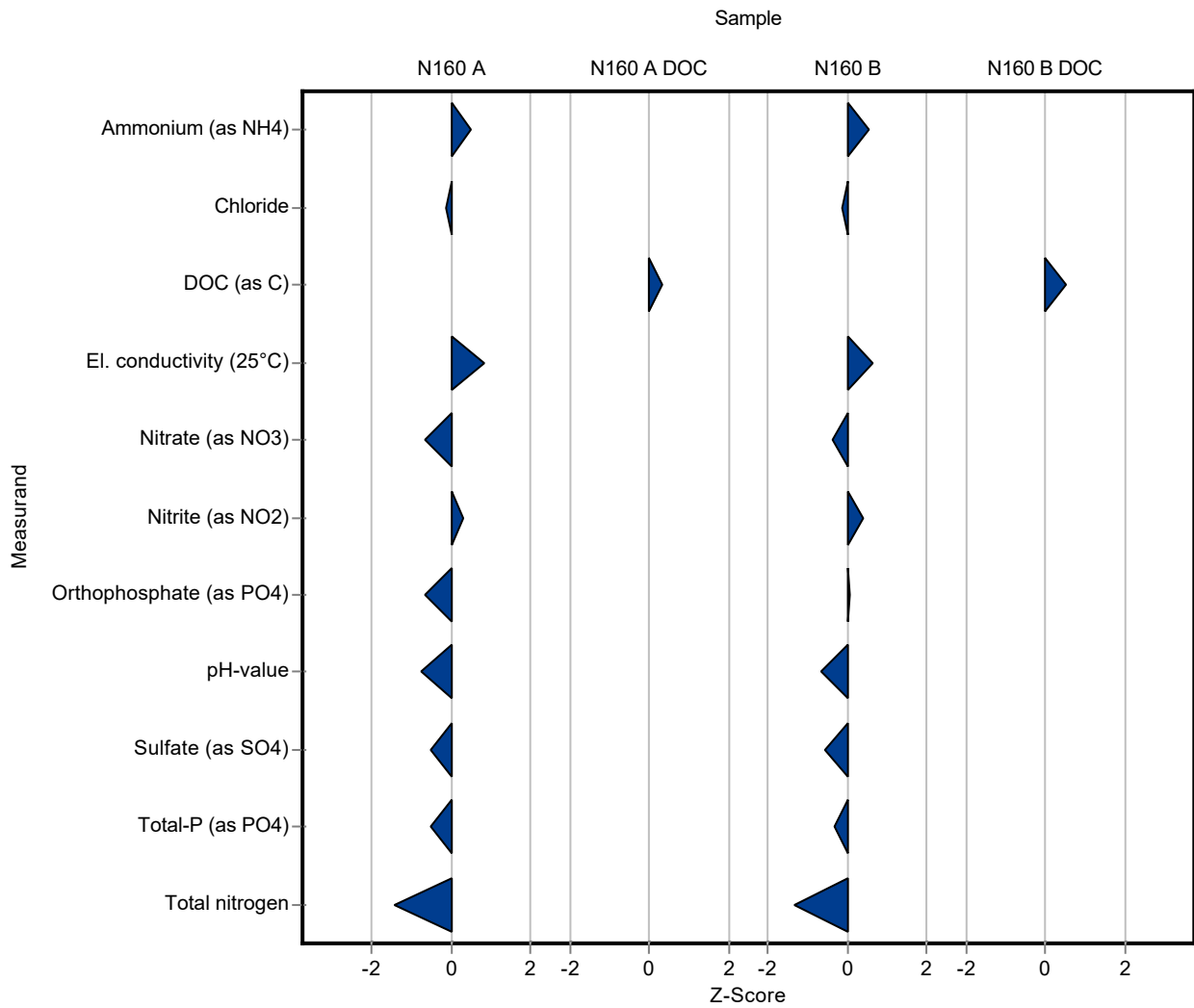
Summary of results Nutrients/Major Ions N160

Labcode: LC0001

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.161 ± 2.899	0.891	99.5	-0.13
El. conductivity (25°C)	µS/cm	474 ± 1.13	478 ± 24	6.16	101	0.63
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.17 ± 0.583	0.672	98	-0.40
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.197 ± 0.055	0.0102	102	0.37
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.11 ± 0.019	0.0174	101	0.06
pH-value	-	8.07 ± 0.019	7.96 ± 0.8	0.161	98.6	-0.68
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.948 ± 1.763	0.973	98.2	-0.55
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.904 ± 0.108	0.0694	97.7	-0.31
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.032 ± 0.433	0.284	88.7	-1.36

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.76 ± 0.497	0.263	105	0.51



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.084 ± 0.019	0.00952	106	0.12
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	71.738 ± 9.383	2.89	99.4	-0.02
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1061 ± 53	13.6	101	0.11
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.019 ± 1.02	1.19	96.8	-0.37
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.293 ± 0.082	0.0153	102	0.03
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.055 ± 0.009	0.00987	89.2	-0.36
pH-value	-	7.69 ± 0.0265	7.57 ± 0.76	0.154	98.5	-0.08
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	52.921 ± 3.223	1.78	98.3	-0.15
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.14 ± 0.137	0.0891	96	-0.17
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	4.99 ± 0.713	0.47	88.1	-0.47

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.145 ± 0.386	0.208	103	0.08

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.303 ± 0.07	0.0341	106	0.13
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

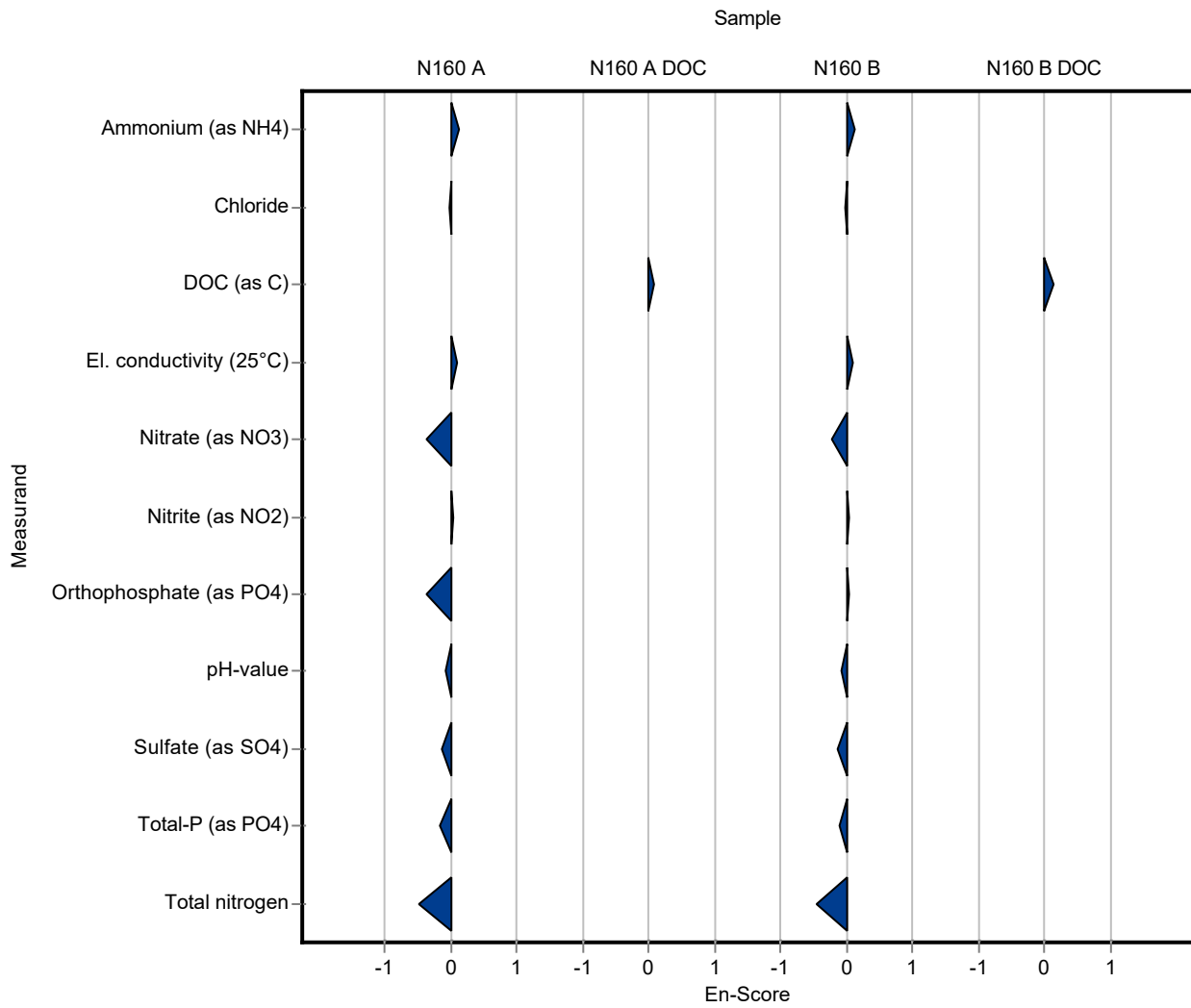
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0001

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	22.161 ± 2.899	0.891	99.5	-0.02
El. conductivity (25°C)	µS/cm	474 ± 1.13	478 ± 24	6.16	101	0.08
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.17 ± 0.583	0.672	98	-0.23
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.197 ± 0.055	0.0102	102	0.03
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.11 ± 0.019	0.0174	101	0.03
pH-value	-	8.07 ± 0.019	7.96 ± 0.8	0.161	98.6	-0.07
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.948 ± 1.763	0.973	98.2	-0.15
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.904 ± 0.108	0.0694	97.7	-0.10
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.032 ± 0.433	0.284	88.7	-0.44

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.76 ± 0.497	0.263	105	0.13



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.69 ± 0.38	0.159	96.8	-1.61
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0865 ± 0.0043	0.00952	109	0.75
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	136.7 ± 4.8	4.42	95.9	-1.33
Chloride	mg/l	72.1 ± 0.47	69.4 ± 3.47	2.89	96.2	-0.95
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1017.25 ± 12.92	13.6	96.9	-2.38
Hydrogen carbonate	mg/l	483 ± 1.82	469.25 ± 23.46	9.66	97.2	-1.42
Magnesium	mg/l	35.3 ± 0.274	36.4 ± 0.99	1.41	103	0.81
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.71 ± 1	1.19	99.7	-0.06
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.2895 ± 0.0154	0.0153	100	0.07
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0467 ± 0.001	0.00987	75.7	-1.52
pH-value	-	7.69 ± 0.0265	7.716 ± 0.05	0.154	100	0.19
Potassium	mg/l	5.32 ± 0.0504	5.175 ± 0.155	0.277	97.2	-0.54
Sodium	mg/l	31.6 ± 0.245	25.89 ± 0.78	1.07	81.9	-5.33
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.4 ± 4.97	1.78	103	0.86
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.225 ± 0.052	0.0891	103	0.42
Total hardness	mmol/l	5 ± 0.0376	4.908 ± 0.245	0.15	98.1	-0.64
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.397 ± 0.17	0.0704	96.6	-1.72
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.2736 ± 0.0137	0.0341	96.2	-0.32
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	58.5 ± 2.05	1.9	95.4	-1.48

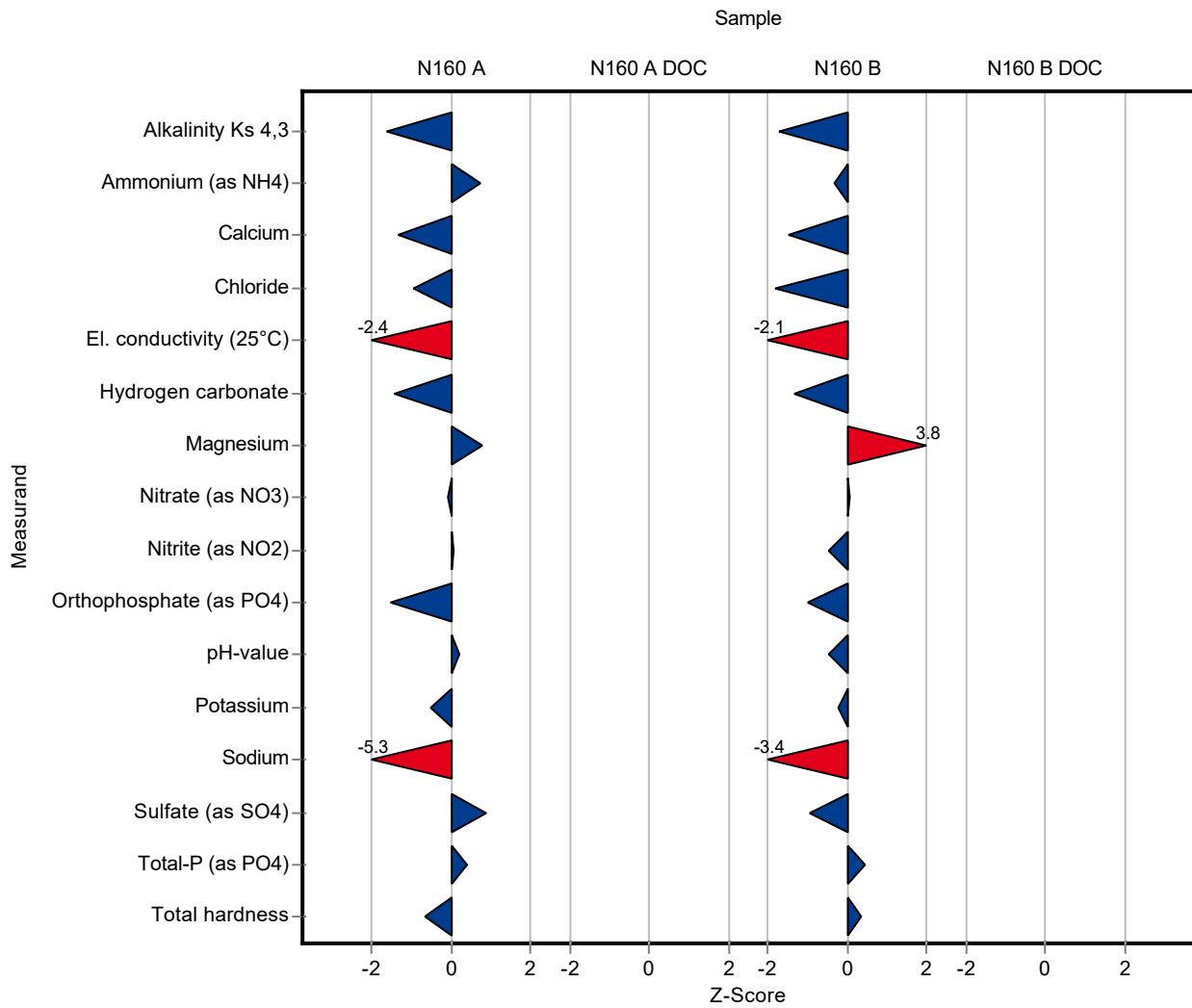
Summary of results Nutrients/Major Ions N160

Labcode: LC0002

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	20.67 ± 1.03	0.891	92.8	-1.81
El. conductivity (25°C)	µS/cm	474 ± 1.13	461 ± 5.85	6.16	97.2	-2.13
Hydrogen carbonate	mg/l	213 ± 1.3	207.29 ± 10.36	4.26	97.3	-1.35
Magnesium	mg/l	14.9 ± 0.135	17.22 ± 0.47	0.598	115	3.80
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.49 ± 0.57	0.672	100	0.08
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.1885 ± 0.01	0.0102	97.6	-0.46
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.0911 ± 0.0019	0.0174	83.6	-1.02
pH-value	-	8.07 ± 0.019	7.997 ± 0.05	0.161	99.1	-0.45
Potassium	mg/l	2.18 ± 0.0235	2.153 ± 0.065	0.113	98.7	-0.24
Sodium	mg/l	14.3 ± 0.118	12.6 ± 0.38	0.485	88.3	-3.43
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.56 ± 2.56	0.973	96.9	-0.95
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.957 ± 0.041	0.0694	103	0.45
Total hardness	mmol/l	2.14 ± 0.0185	2.168 ± 0.108	0.0643	101	0.36
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.69 ± 0.38	0.159	96.8	-0.34
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0865 ± 0.0043	0.00952	109	0.80
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	136.7 ± 4.8	4.42	95.9	-0.60
Chloride	mg/l	72.1 ± 0.47	69.4 ± 3.47	2.89	96.2	-0.40
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1017.25 ± 12.92	13.6	96.9	-1.24
Hydrogen carbonate	mg/l	483 ± 1.82	469.25 ± 23.46	9.66	97.2	-0.29
Magnesium	mg/l	35.3 ± 0.274	36.4 ± 0.99	1.41	103	0.57
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.71 ± 1	1.19	99.7	-0.04
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.2895 ± 0.0154	0.0153	100	0.04
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0467 ± 0.001	0.00987	75.7	-3.93
pH-value	-	7.69 ± 0.0265	7.716 ± 0.05	0.154	100	0.29
Potassium	mg/l	5.32 ± 0.0504	5.175 ± 0.155	0.277	97.2	-0.47
Sodium	mg/l	31.6 ± 0.245	25.89 ± 0.78	1.07	81.9	-3.63
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.4 ± 4.97	1.78	103	0.15
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.225 ± 0.052	0.0891	103	0.35
Total hardness	mmol/l	5 ± 0.0376	4.908 ± 0.245	0.15	98.1	-0.20
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.397 ± 0.17	0.0704	96.6	-0.35
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.2736 ± 0.0137	0.0341	96.2	-0.39
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

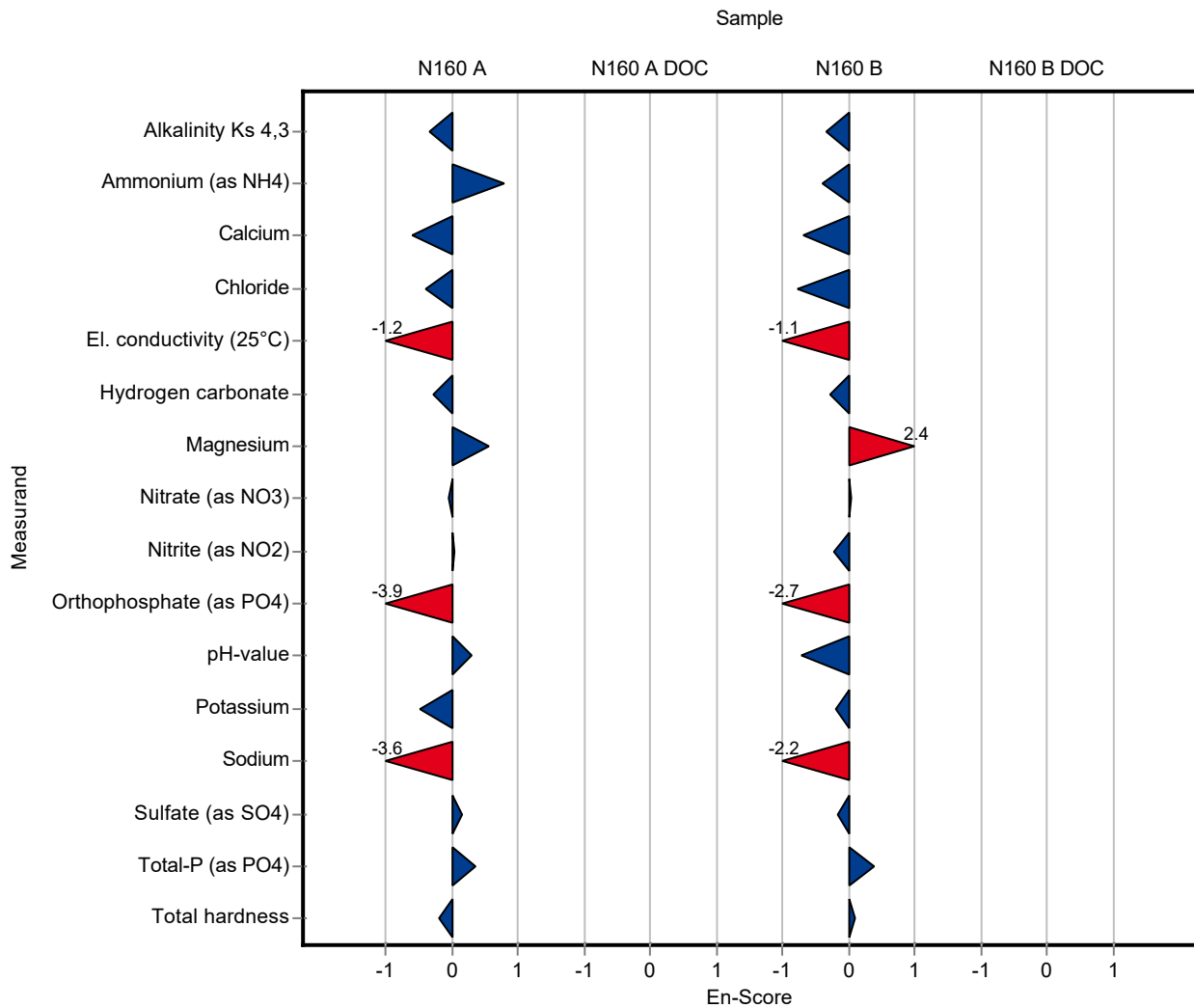
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0002

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	58.5 ± 2.05	1.9	95.4	-0.68
Chloride	mg/l	22.3 ± 0.157	20.67 ± 1.03	0.891	92.8	-0.78
El. conductivity (25°C)	µS/cm	474 ± 1.13	461 ± 5.85	6.16	97.2	-1.12
Hydrogen carbonate	mg/l	213 ± 1.3	207.29 ± 10.36	4.26	97.3	-0.28
Magnesium	mg/l	14.9 ± 0.135	17.22 ± 0.47	0.598	115	2.39
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.49 ± 0.57	0.672	100	0.05
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.1885 ± 0.01	0.0102	97.6	-0.23
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.0911 ± 0.0019	0.0174	83.6	-2.67
pH-value	-	8.07 ± 0.019	7.997 ± 0.05	0.161	99.1	-0.72
Potassium	mg/l	2.18 ± 0.0235	2.153 ± 0.065	0.113	98.7	-0.21
Sodium	mg/l	14.3 ± 0.118	12.6 ± 0.38	0.485	88.3	-2.16
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.56 ± 2.56	0.973	96.9	-0.18
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.957 ± 0.041	0.0694	103	0.38
Total hardness	mmol/l	2.14 ± 0.0185	2.168 ± 0.108	0.0643	101	0.11
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.95 ± 0.363	0.159	100	0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1051 ± 15	13.6	100	0.10
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.7 ± 0.14	0.154	100	0.09
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.21 ± 0.35	0.208	106	0.63

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.16	0.0704	99.5	-0.25
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

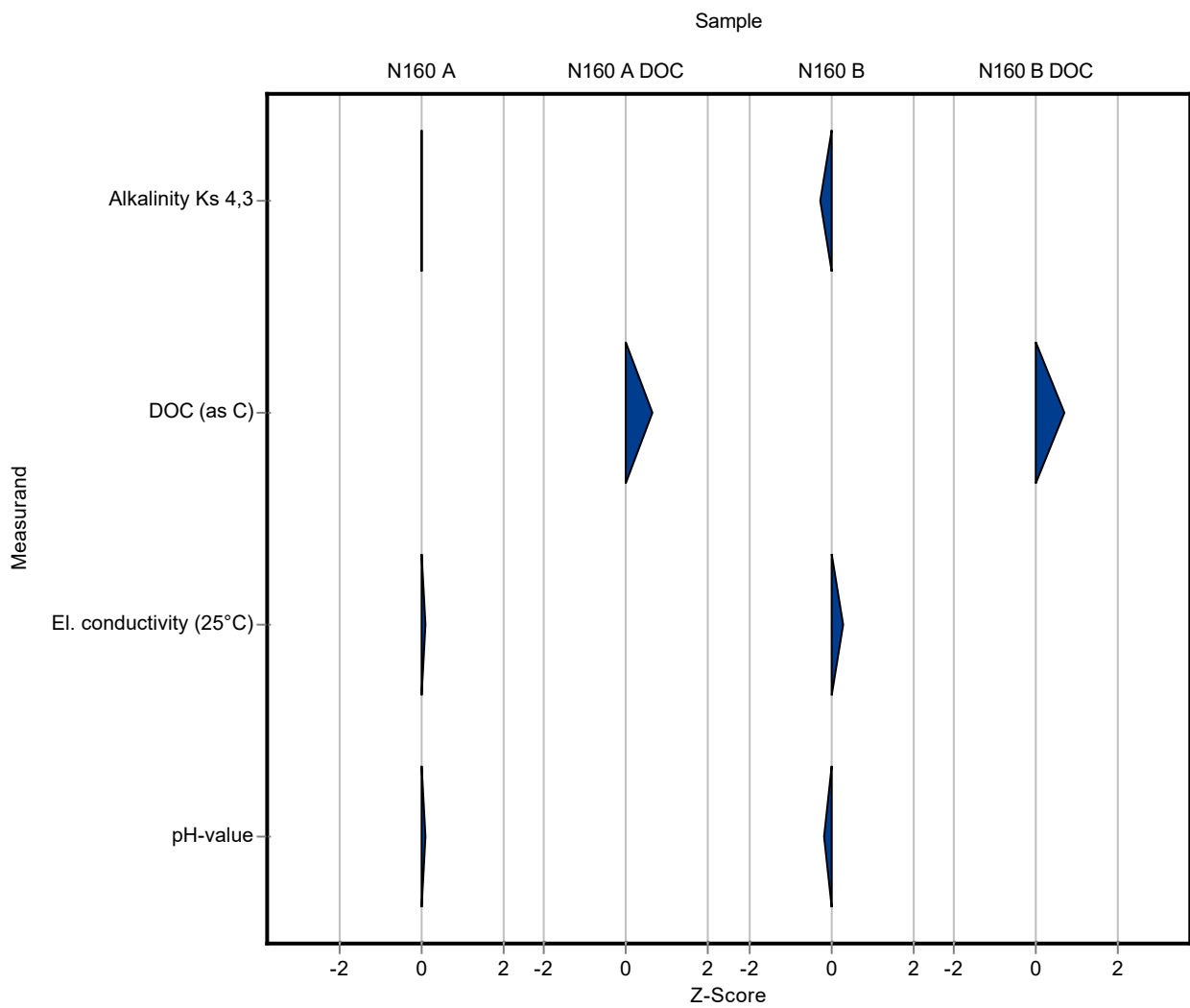
Summary of results Nutrients/Major Ions N160

Labcode: LC0003

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	476 ± 6	6.16	100	0.30
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.04 ± 0.15	0.161	99.6	-0.18
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.8 ± 0.45	0.263	107	0.66



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.95 ± 0.363	0.159	100	0.01
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1051 ± 15	13.6	100	0.04
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.7 ± 0.14	0.154	100	0.05
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.21 ± 0.35	0.208	106	0.18

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.16	0.0704	99.5	-0.06
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

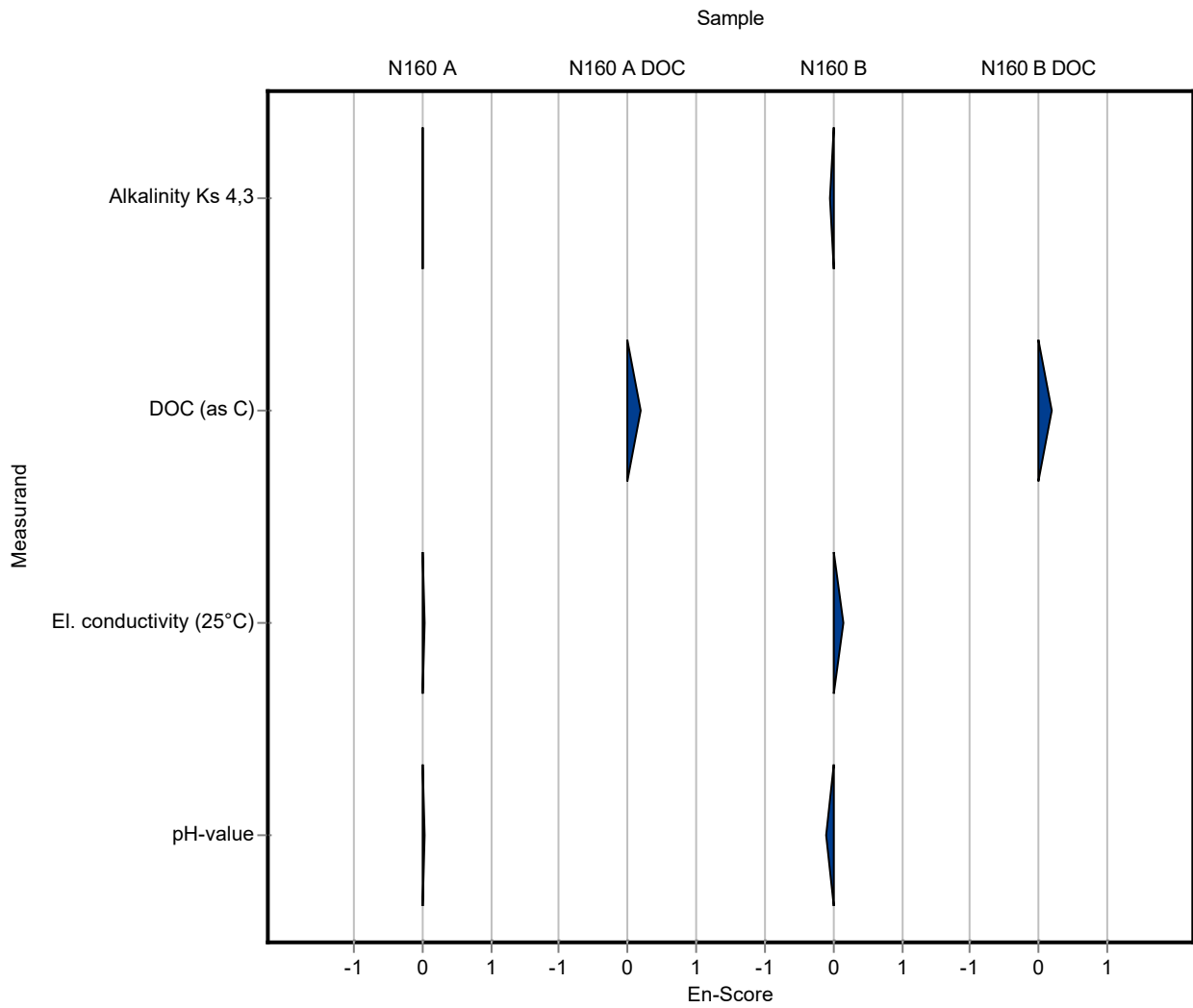
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0003

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	476 ± 6	6.16	100	0.15
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.04 ± 0.15	0.161	99.6	-0.10
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.8 ± 0.45	0.263	107	0.19



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	5.7 ± 0.46	0.47	101	0.07

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

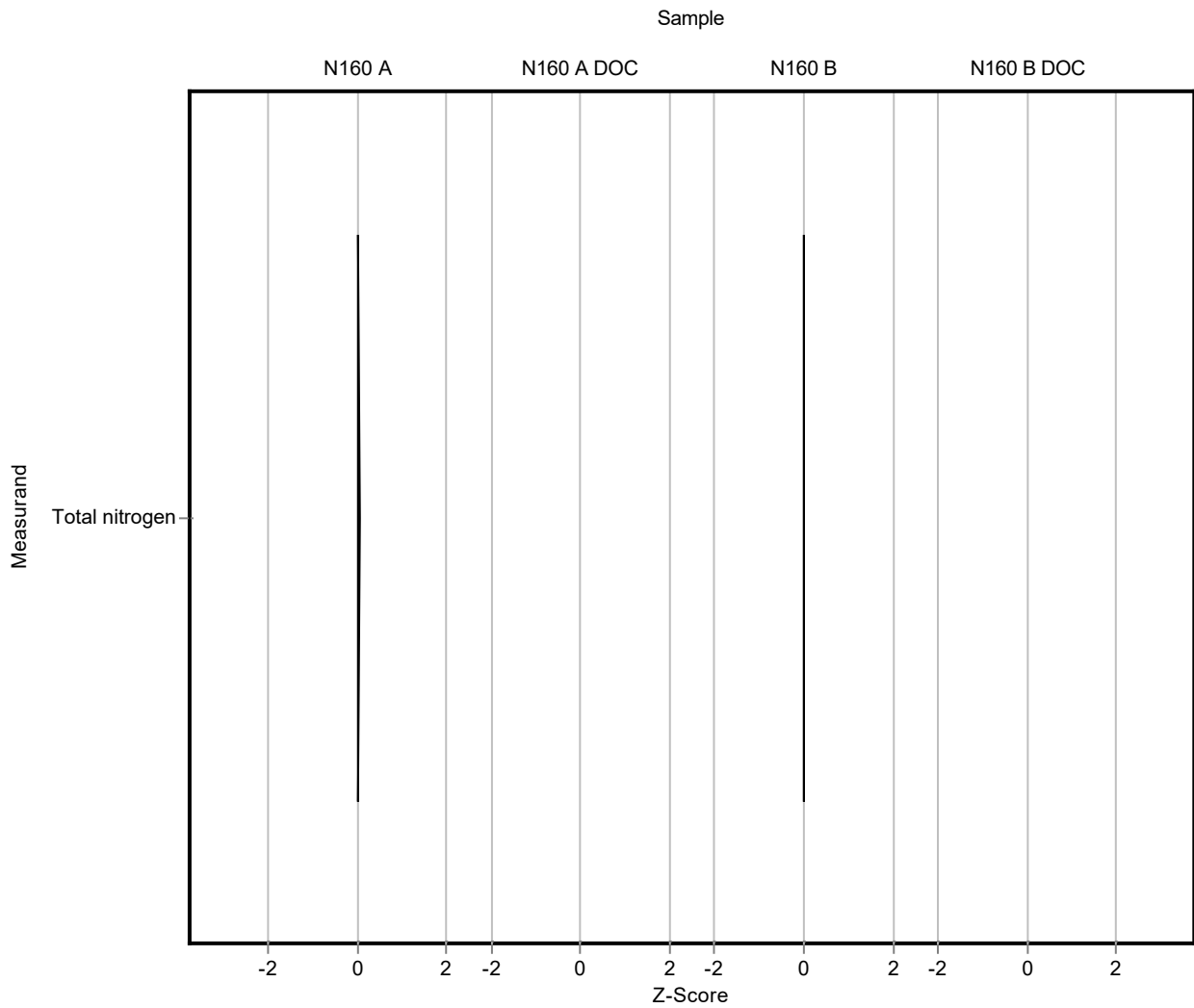
Summary of results Nutrients/Major Ions N160

Labcode: LC0004

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.42 ± 0.27	0.284	100	0.00

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	5.7 ± 0.46	0.47	101	0.04

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

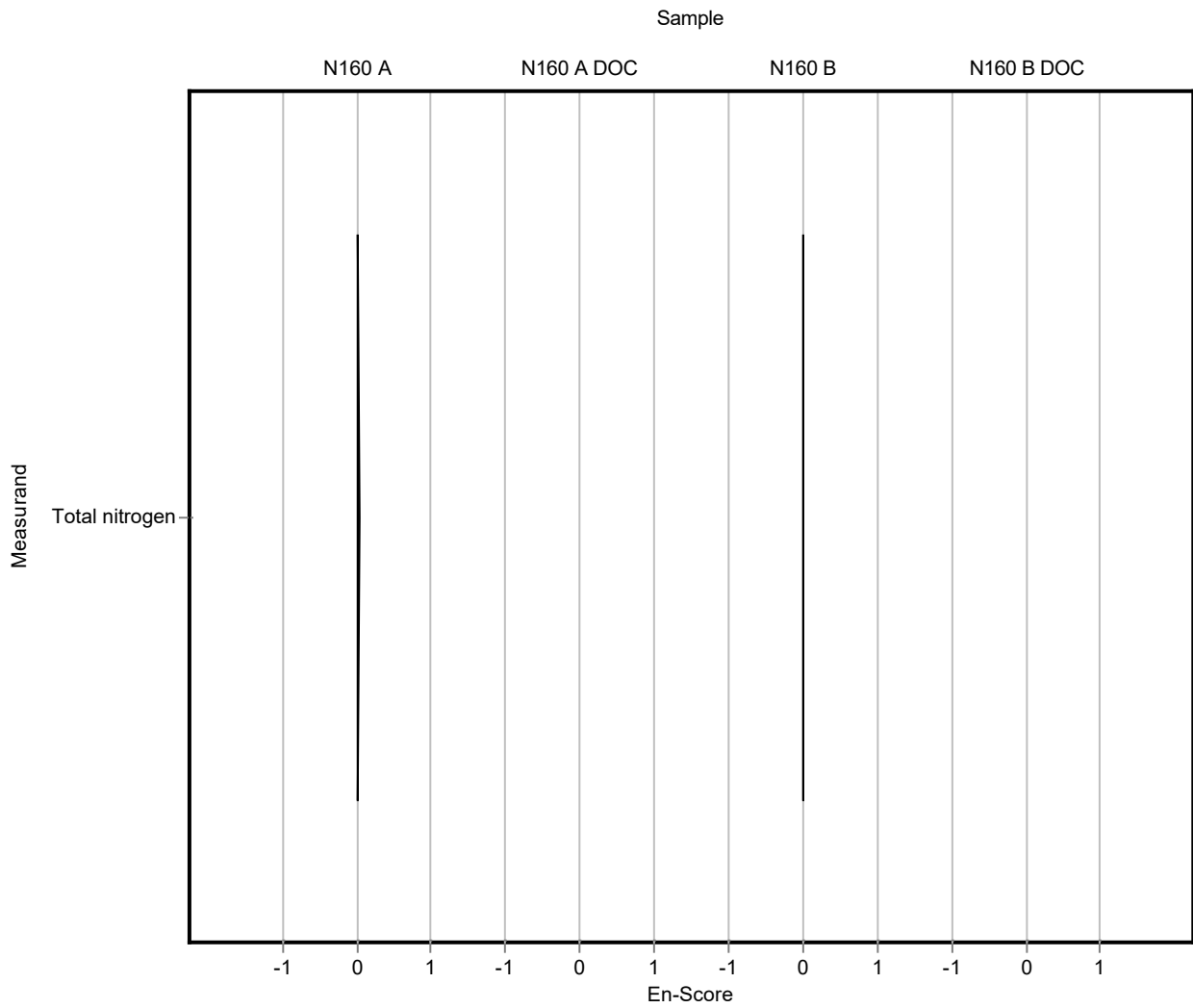
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.42 ± 0.27	0.284	100	0.00

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.94 ± 0.24	0.159	99.9	-0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.254 ± 0.025	0.00952	320	18.30
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	149 ± 5.42	4.42	105	1.45
Chloride	mg/l	72.1 ± 0.47	73.09 ± 0.73	2.89	101	0.33
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1000 ± 40	13.6	95.3	-3.64
Hydrogen carbonate	mg/l	483 ± 1.82	485 ± 15	9.66	100	0.21
Magnesium	mg/l	35.3 ± 0.274	36.3 ± 1.65	1.41	103	0.74
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.59 ± 4.35	1.19	95	-1.00
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.27 ± 0.027	0.0153	93.6	-1.20
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.77 ± 0.17	0.154	101	0.55
Potassium	mg/l	5.32 ± 0.0504	5.41 ± 0.54	0.277	102	0.31
Sodium	mg/l	31.6 ± 0.245	32.61 ± 3.3	1.07	103	0.93
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.62 ± 1.26	1.78	101	0.43
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	5.21 ± 0.2	0.15	104	1.37
Total nitrogen	mg/l	5.67 ± 0.147	6.16 ± 0.234	0.47	109	1.05

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.17 ± 0.0546	0.208	104	0.43

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.52 ± 0.106	0.0704	100	0.03
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.441 ± 0.044	0.0341	155	4.58
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	63.7 ± 2.32	1.9	104	1.26

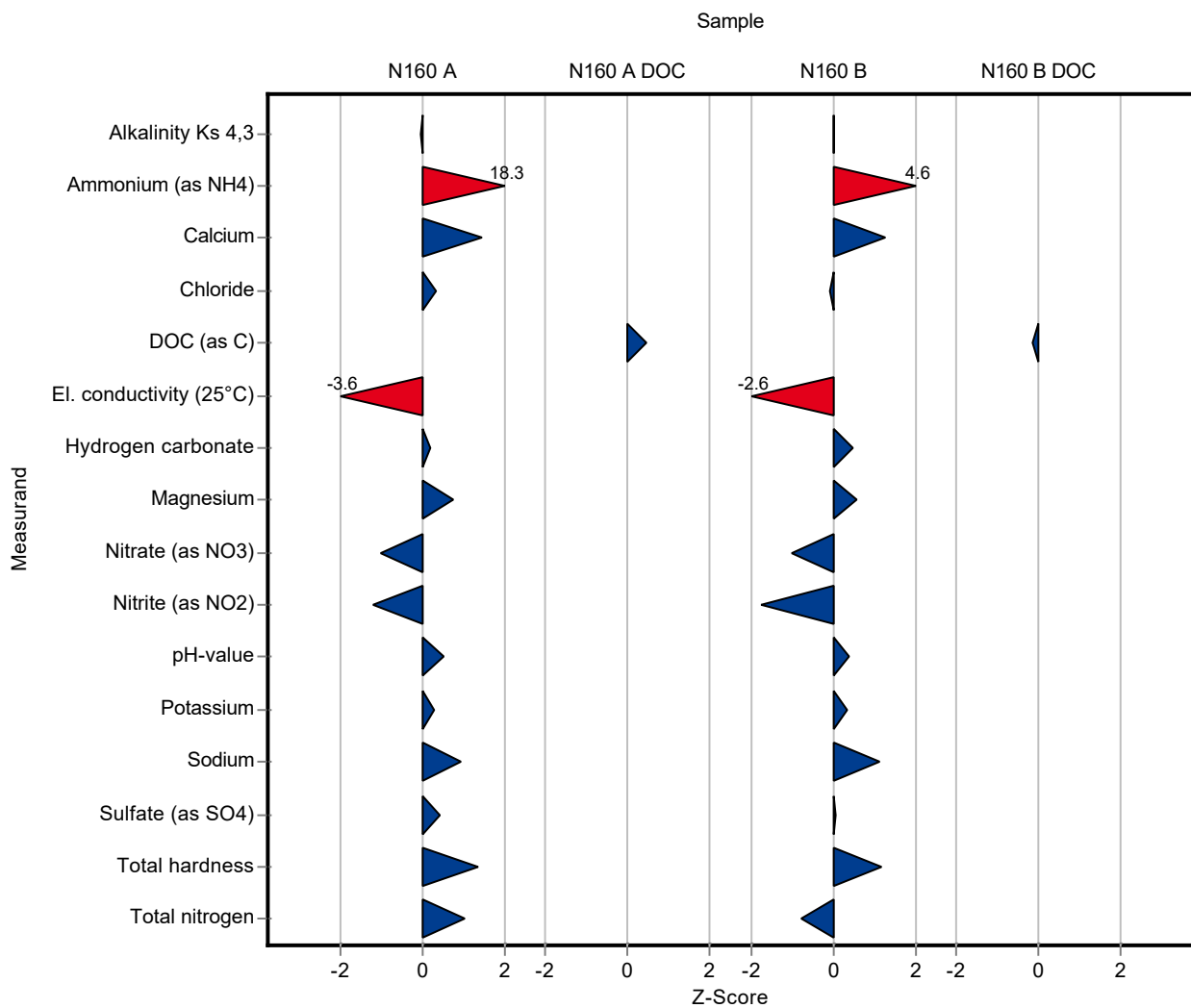
Summary of results Nutrients/Major Ions N160

Labcode: LC0005

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.19 ± 0.22	0.891	99.6	-0.10
El. conductivity (25°C)	µS/cm	474 ± 1.13	458 ± 18	6.16	96.6	-2.62
Hydrogen carbonate	mg/l	213 ± 1.3	215 ± 6.45	4.26	101	0.46
Magnesium	mg/l	14.9 ± 0.135	15.3 ± 0.7	0.598	102	0.58
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.77 ± 2.46	0.672	95	-0.99
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.175 ± 0.018	0.0102	90.6	-1.77
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.13 ± 0.18	0.161	101	0.37
Potassium	mg/l	2.18 ± 0.0235	2.22 ± 0.22	0.113	102	0.35
Sodium	mg/l	14.3 ± 0.118	14.81 ± 0.15	0.485	104	1.13
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.52 ± 0.68	0.973	100	0.04
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.22 ± 0.087	0.0643	104	1.17
Total nitrogen	mg/l	3.42 ± 0.0995	3.2 ± 0.122	0.284	93.6	-0.77

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.58 ± 0.065	0.263	98.2	-0.18



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.94 ± 0.24	0.159	99.9	-0.01
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.254 ± 0.025	0.00952	320	3.49
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	149 ± 5.42	4.42	105	0.59
Chloride	mg/l	72.1 ± 0.47	73.09 ± 0.73	2.89	101	0.61
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1000 ± 40	13.6	95.3	-0.62
Hydrogen carbonate	mg/l	483 ± 1.82	485 ± 15	9.66	100	0.07
Magnesium	mg/l	35.3 ± 0.274	36.3 ± 1.65	1.41	103	0.32
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.59 ± 4.35	1.19	95	-0.14
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.27 ± 0.027	0.0153	93.6	-0.34
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.77 ± 0.17	0.154	101	0.25
Potassium	mg/l	5.32 ± 0.0504	5.41 ± 0.54	0.277	102	0.08
Sodium	mg/l	31.6 ± 0.245	32.61 ± 3.3	1.07	103	0.15
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.62 ± 1.26	1.78	101	0.30
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	5.21 ± 0.2	0.15	104	0.51
Total nitrogen	mg/l	5.67 ± 0.147	6.16 ± 0.234	0.47	109	1.01

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.17 ± 0.0546	0.208	104	0.73

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.52 ± 0.106	0.0704	100	0.01
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.441 ± 0.044	0.0341	155	1.78
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

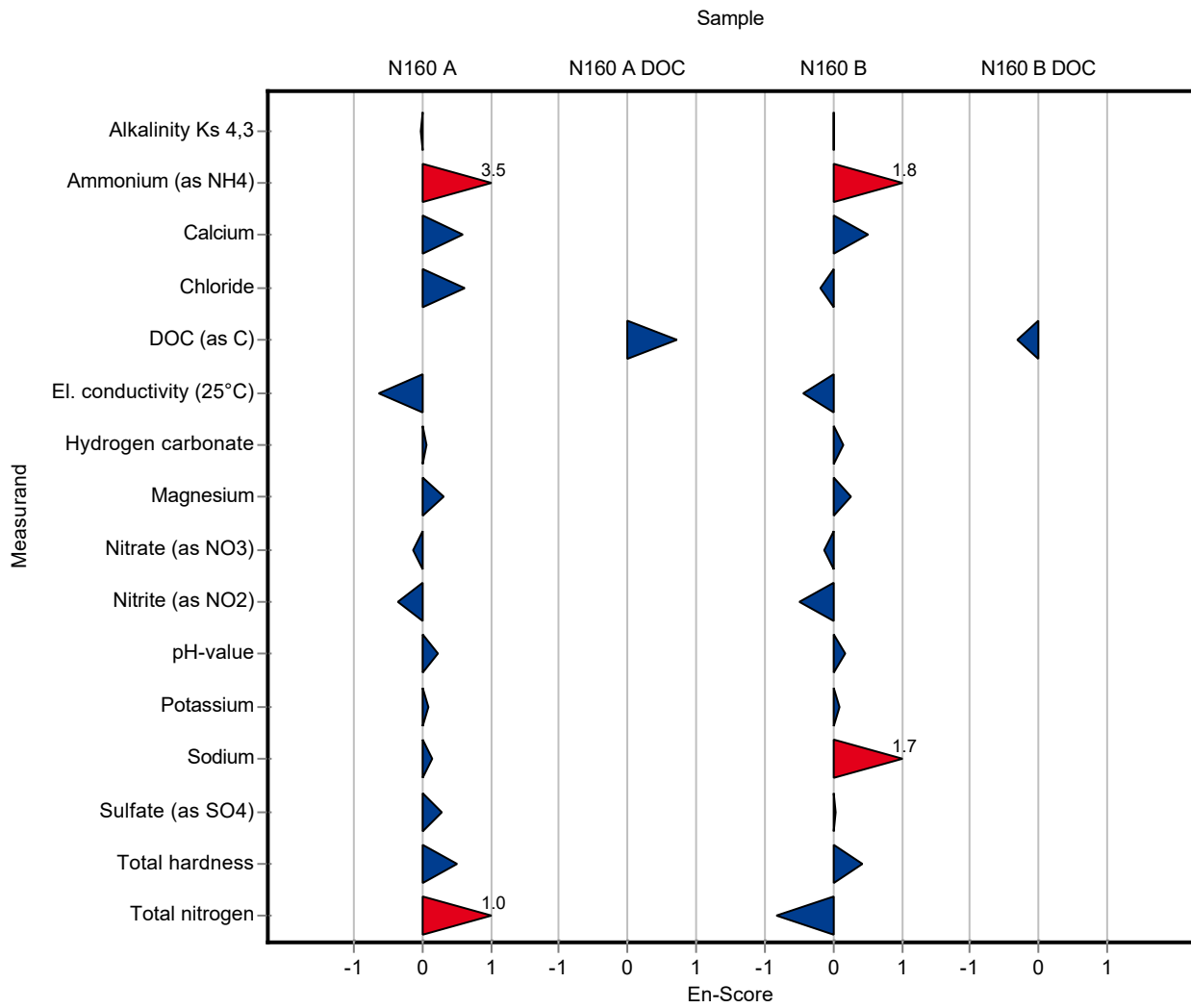
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0005

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	63.7 ± 2.32	1.9	104	0.51
Chloride	mg/l	22.3 ± 0.157	22.19 ± 0.22	0.891	99.6	-0.19
El. conductivity (25°C)	µS/cm	474 ± 1.13	458 ± 18	6.16	96.6	-0.45
Hydrogen carbonate	mg/l	213 ± 1.3	215 ± 6.45	4.26	101	0.15
Magnesium	mg/l	14.9 ± 0.135	15.3 ± 0.7	0.598	102	0.25
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.77 ± 2.46	0.672	95	-0.14
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.175 ± 0.018	0.0102	90.6	-0.50
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.13 ± 0.18	0.161	101	0.17
Potassium	mg/l	2.18 ± 0.0235	2.22 ± 0.22	0.113	102	0.09
Sodium	mg/l	14.3 ± 0.118	14.81 ± 0.15	0.485	104	1.70
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.52 ± 0.68	0.973	100	0.03
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.22 ± 0.087	0.0643	104	0.43
Total nitrogen	mg/l	3.42 ± 0.0995	3.2 ± 0.122	0.284	93.6	-0.83

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.58 ± 0.065	0.263	98.2	-0.32



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.95 ± 0.38	0.159	100	0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0703 ± 0.0049	0.00952	88.6	-0.95
Boron	mg/l	0.0747 ± 0.00166	0.0897 ± 0.011	0.00822	120	1.82
Calcium	mg/l	143 ± 1.42	136 ± 6.2	4.42	95.4	-1.49
Chloride	mg/l	72.1 ± 0.47	72.8 ± 4.9	2.89	101	0.23
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1050 ± 31	13.6	100	0.02
Hydrogen carbonate	mg/l	483 ± 1.82	485 ± 23	9.66	100	0.21
Magnesium	mg/l	35.3 ± 0.274	33.9 ± 2.8	1.41	96.2	-0.96
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.3 ± 0.57	1.19	102	0.44
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.303 ± 0.031	0.0153	105	0.95
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0636 ± 0.0045	0.00987	103	0.20
pH-value	-	7.69 ± 0.0265	7.62 ± 0.23	0.154	99.1	-0.43
Potassium	mg/l	5.32 ± 0.0504	5.03 ± 0.36	0.277	94.5	-1.06
Sodium	mg/l	31.6 ± 0.245	33.4 ± 2.4	1.07	106	1.66
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54 ± 1.8	1.78	100	0.08
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.22 ± 0.07	0.0891	103	0.36
Total hardness	mmol/l	5 ± 0.0376	4.8 ± 0.4	0.15	95.9	-1.36
Total nitrogen	mg/l	5.67 ± 0.147	6.75 ± 1.1	0.47	119	2.31

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.72 ± 0.28	0.208	82.7	-1.73

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.59 ± 0.17	0.0704	102	1.03
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.282 ± 0.02	0.0341	99.1	-0.07
Boron	mg/l	0.0149 ± 0.000559	0.0153 ± 0.0019	0.00164	103	0.24
Calcium	mg/l	61.3 ± 0.649	57 ± 2.6	1.9	93	-2.27

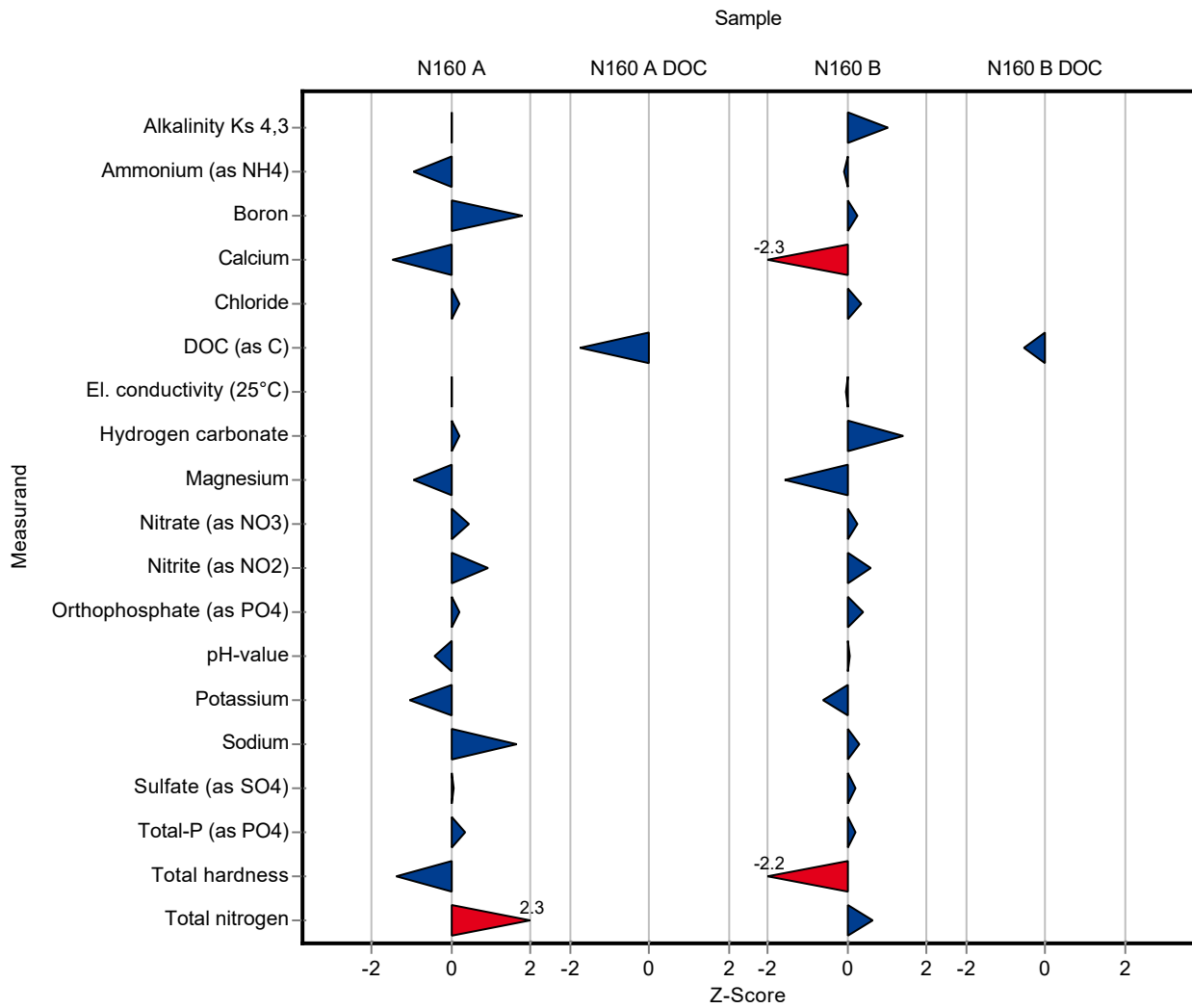
Summary of results Nutrients/Major Ions N160

Labcode: LC0006

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.6 ± 1.5	0.891	101	0.36
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 14	6.16	100	-0.02
Hydrogen carbonate	mg/l	213 ± 1.3	219 ± 10.5	4.26	103	1.40
Magnesium	mg/l	14.9 ± 0.135	14 ± 1.15	0.598	93.6	-1.59
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.6 ± 0.32	0.672	101	0.24
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.199 ± 0.02	0.0102	103	0.57
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.116 ± 0.0081	0.0174	106	0.40
pH-value	-	8.07 ± 0.019	8.08 ± 0.24	0.161	100	0.06
Potassium	mg/l	2.18 ± 0.0235	2.11 ± 0.15	0.113	96.8	-0.62
Sodium	mg/l	14.3 ± 0.118	14.4 ± 1	0.485	101	0.28
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.7 ± 0.98	0.973	101	0.22
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.938 ± 0.053	0.0694	101	0.18
Total hardness	mmol/l	2.14 ± 0.0185	2 ± 0.16	0.0643	93.3	-2.25
Total nitrogen	mg/l	3.42 ± 0.0995	3.6 ± 0.59	0.284	105	0.64

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.48 ± 0.4	0.263	94.4	-0.56



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.95 ± 0.38	0.159	100	0.01
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0703 ± 0.0049	0.00952	88.6	-0.89
Boron	mg/l	0.0747 ± 0.00166	0.0897 ± 0.011	0.00822	120	0.68
Calcium	mg/l	143 ± 1.42	136 ± 6.2	4.42	95.4	-0.53
Chloride	mg/l	72.1 ± 0.47	72.8 ± 4.9	2.89	101	0.07
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1050 ± 31	13.6	100	0.01
Hydrogen carbonate	mg/l	483 ± 1.82	485 ± 23	9.66	100	0.04
Magnesium	mg/l	35.3 ± 0.274	33.9 ± 2.8	1.41	96.2	-0.24
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.3 ± 0.57	1.19	102	0.45
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.303 ± 0.031	0.0153	105	0.23
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0636 ± 0.0045	0.00987	103	0.20
pH-value	-	7.69 ± 0.0265	7.62 ± 0.23	0.154	99.1	-0.14
Potassium	mg/l	5.32 ± 0.0504	5.03 ± 0.36	0.277	94.5	-0.41
Sodium	mg/l	31.6 ± 0.245	33.4 ± 2.4	1.07	106	0.37
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54 ± 1.8	1.78	100	0.04
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.22 ± 0.07	0.0891	103	0.23
Total hardness	mmol/l	5 ± 0.0376	4.8 ± 0.4	0.15	95.9	-0.26
Total nitrogen	mg/l	5.67 ± 0.147	6.75 ± 1.1	0.47	119	0.49

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.72 ± 0.28	0.208	82.7	-0.64

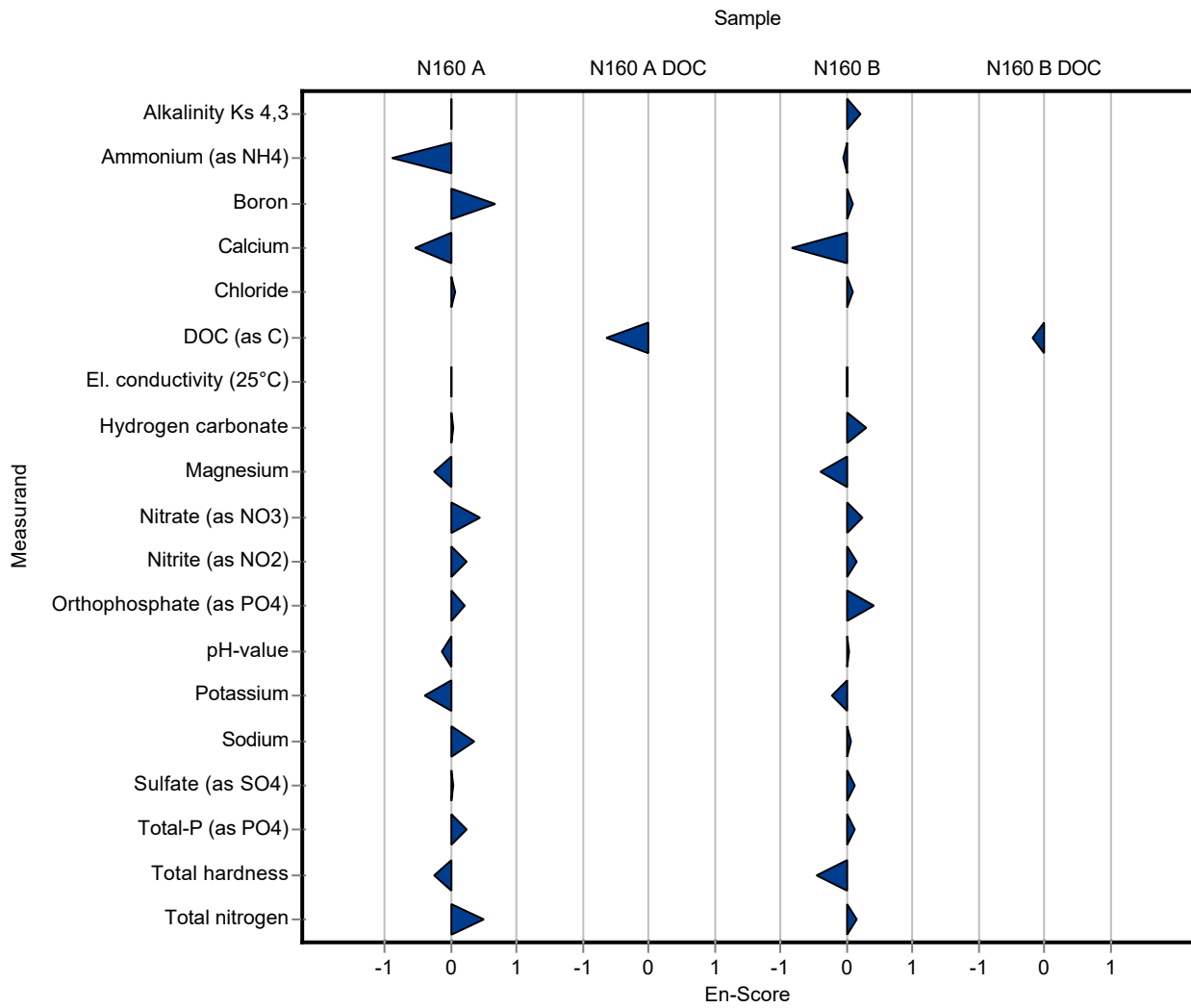
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.59 ± 0.17	0.0704	102	0.21
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.282 ± 0.02	0.0341	99.1	-0.06
Boron	mg/l	0.0149 ± 0.000559	0.0153 ± 0.0019	0.00164	103	0.10

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	57 ± 2.6	1.9	93	-0.82
Chloride	mg/l	22.3 ± 0.157	22.6 ± 1.5	0.891	101	0.11
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 14	6.16	100	0.00
Hydrogen carbonate	mg/l	213 ± 1.3	219 ± 10.5	4.26	103	0.28
Magnesium	mg/l	14.9 ± 0.135	14 ± 1.15	0.598	93.6	-0.41
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.6 ± 0.32	0.672	101	0.25
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.199 ± 0.02	0.0102	103	0.14
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.116 ± 0.0081	0.0174	106	0.41
pH-value	-	8.07 ± 0.019	8.08 ± 0.24	0.161	100	0.02
Potassium	mg/l	2.18 ± 0.0235	2.11 ± 0.15	0.113	96.8	-0.23
Sodium	mg/l	14.3 ± 0.118	14.4 ± 1	0.485	101	0.07
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.7 ± 0.98	0.973	101	0.11
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.938 ± 0.053	0.0694	101	0.12
Total hardness	mmol/l	2.14 ± 0.0185	2 ± 0.16	0.0643	93.3	-0.45
Total nitrogen	mg/l	3.42 ± 0.0995	3.6 ± 0.59	0.284	105	0.15

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.48 ± 0.4	0.263	94.4	-0.18



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.69 ± 0.7685	0.159	96.8	-1.61
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.081 ± 0.01207	0.00952	102	0.17
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	74.12 ± 7.412	2.89	103	0.68
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1056 ± 31.68	13.6	101	0.46
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.61 ± 2.707	1.19	103	0.70
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.2985 ± 0.04478	0.0153	104	0.66
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0552 ± 0.00828	0.00987	89.5	-0.65
pH-value	-	7.69 ± 0.0265	7.78 ± 0.3888	0.154	101	0.61
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.58 ± 5.558	1.78	103	0.97
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	5.71 ± 1.142	0.47	101	0.10

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.5 ± 0.625	0.208	120	2.02

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.42 ± 0.3415	0.0704	97.2	-1.39
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.287 ± 0.04298	0.0341	101	0.07
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

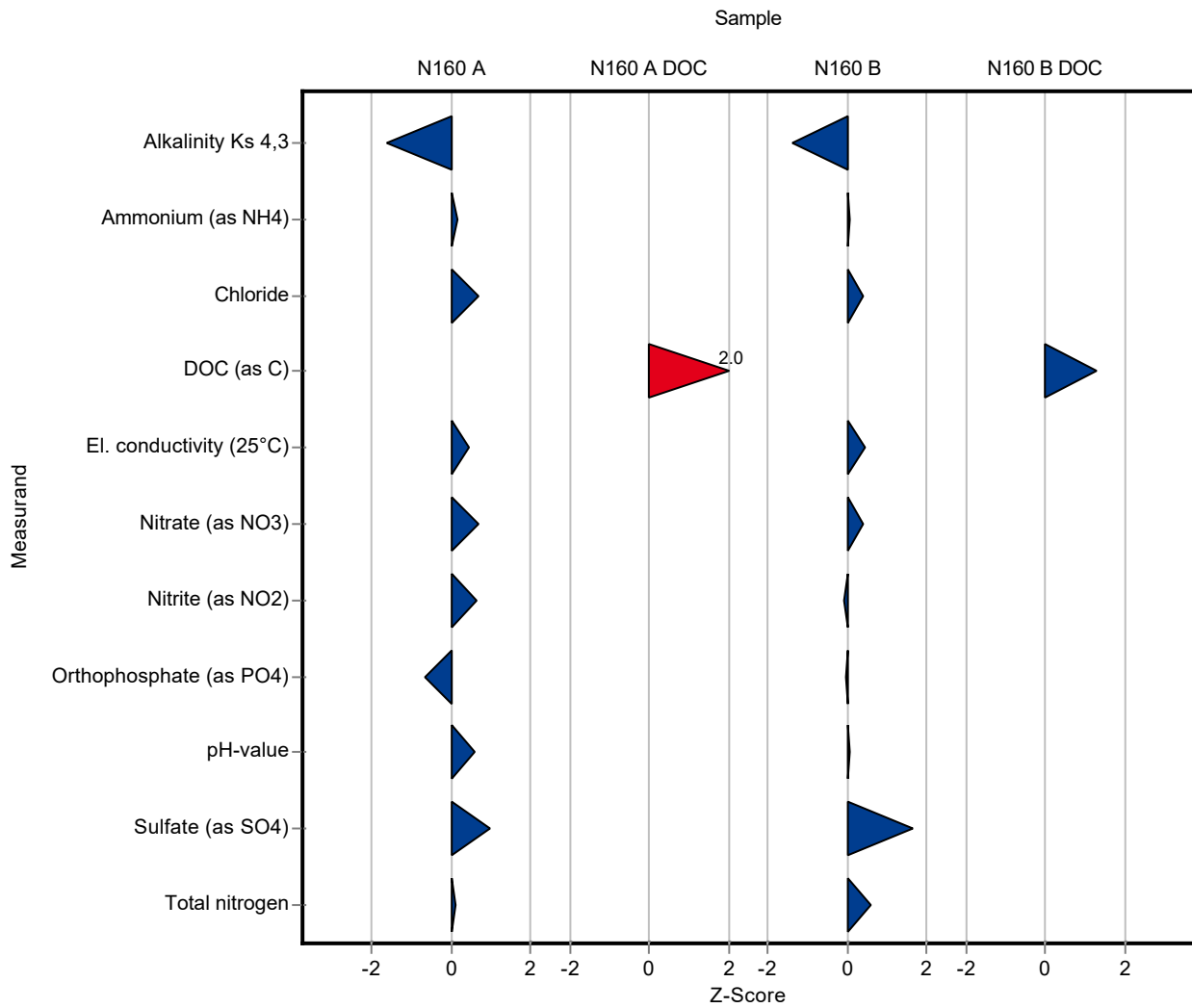
Summary of results Nutrients/Major Ions N160

Labcode: LC0007

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.64 ± 2.264	0.891	102	0.41
El. conductivity (25°C)	µS/cm	474 ± 1.13	476.8 ± 14.3	6.16	101	0.43
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.71 ± 1.508	0.672	102	0.41
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.1925 ± 0.02888	0.0102	99.7	-0.07
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.1085 ± 0.01627	0.0174	99.6	-0.03
pH-value	-	8.07 ± 0.019	8.08 ± 0.4041	0.161	100	0.06
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	31.07 ± 3.107	0.973	105	1.63
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.58 ± 0.716	0.284	105	0.57

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.96 ± 0.74	0.263	113	1.27



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.69 ± 0.7685	0.159	96.8	-0.17
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.081 ± 0.01207	0.00952	102	0.07
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	74.12 ± 7.412	2.89	103	0.13
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1056 ± 31.68	13.6	101	0.10
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.61 ± 2.707	1.19	103	0.15
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.2985 ± 0.04478	0.0153	104	0.11
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0552 ± 0.00828	0.00987	89.5	-0.38
pH-value	-	7.69 ± 0.0265	7.78 ± 0.3888	0.154	101	0.12
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.58 ± 5.558	1.78	103	0.15
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	5.71 ± 1.142	0.47	101	0.02

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.5 ± 0.625	0.208	120	0.34

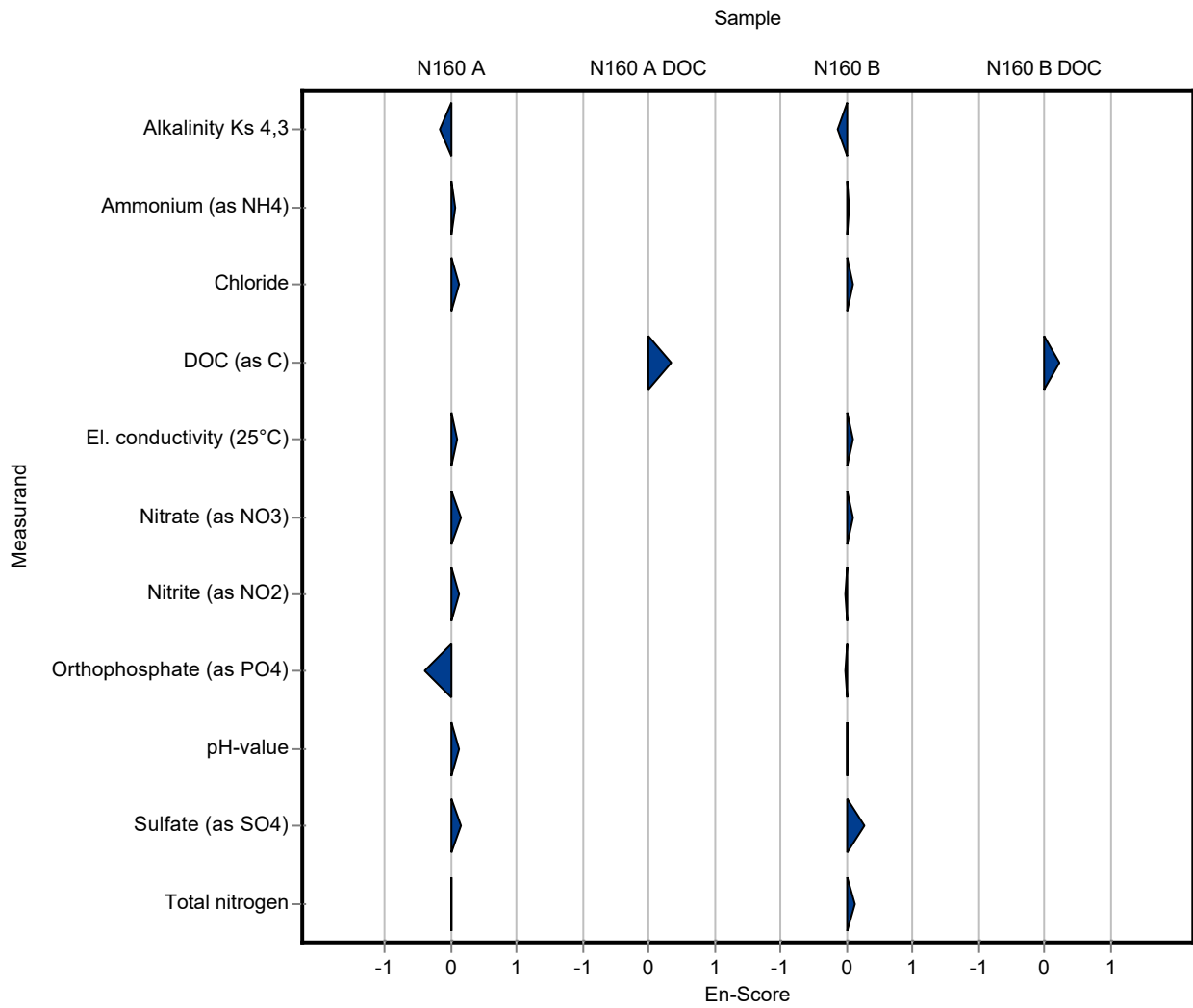
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.42 ± 0.3415	0.0704	97.2	-0.14
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.287 ± 0.04298	0.0341	101	0.03
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	22.64 ± 2.264	0.891	102	0.08
El. conductivity (25°C)	µS/cm	474 ± 1.13	476.8 ± 14.3	6.16	101	0.09
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.71 ± 1.508	0.672	102	0.09
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.1925 ± 0.02888	0.0102	99.7	-0.01
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.1085 ± 0.01627	0.0174	99.6	-0.01
pH-value	-	8.07 ± 0.019	8.08 ± 0.4041	0.161	100	0.01
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	31.07 ± 3.107	0.973	105	0.26
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.58 ± 0.716	0.284	105	0.11

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.96 ± 0.74	0.263	113	0.23



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1060 ± 10	13.6	101	0.76
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.7 ± 0.1	0.154	100	0.09
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

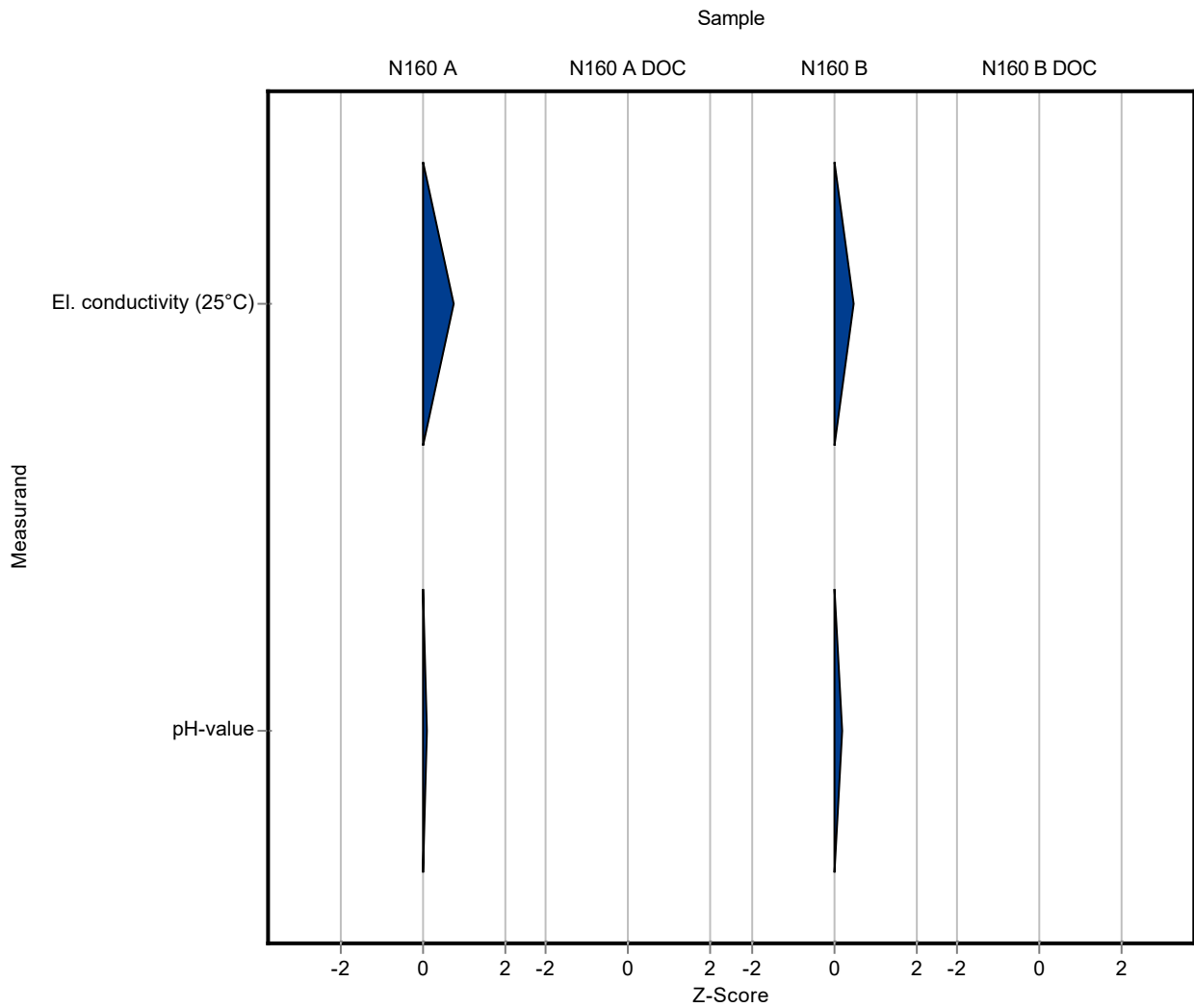
Summary of results Nutrients/Major Ions N160

Labcode: LC0008

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 10	6.16	101	0.47
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.1 ± 0.1	0.161	100	0.19
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1060 ± 10	13.6	101	0.51
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.7 ± 0.1	0.154	100	0.07
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

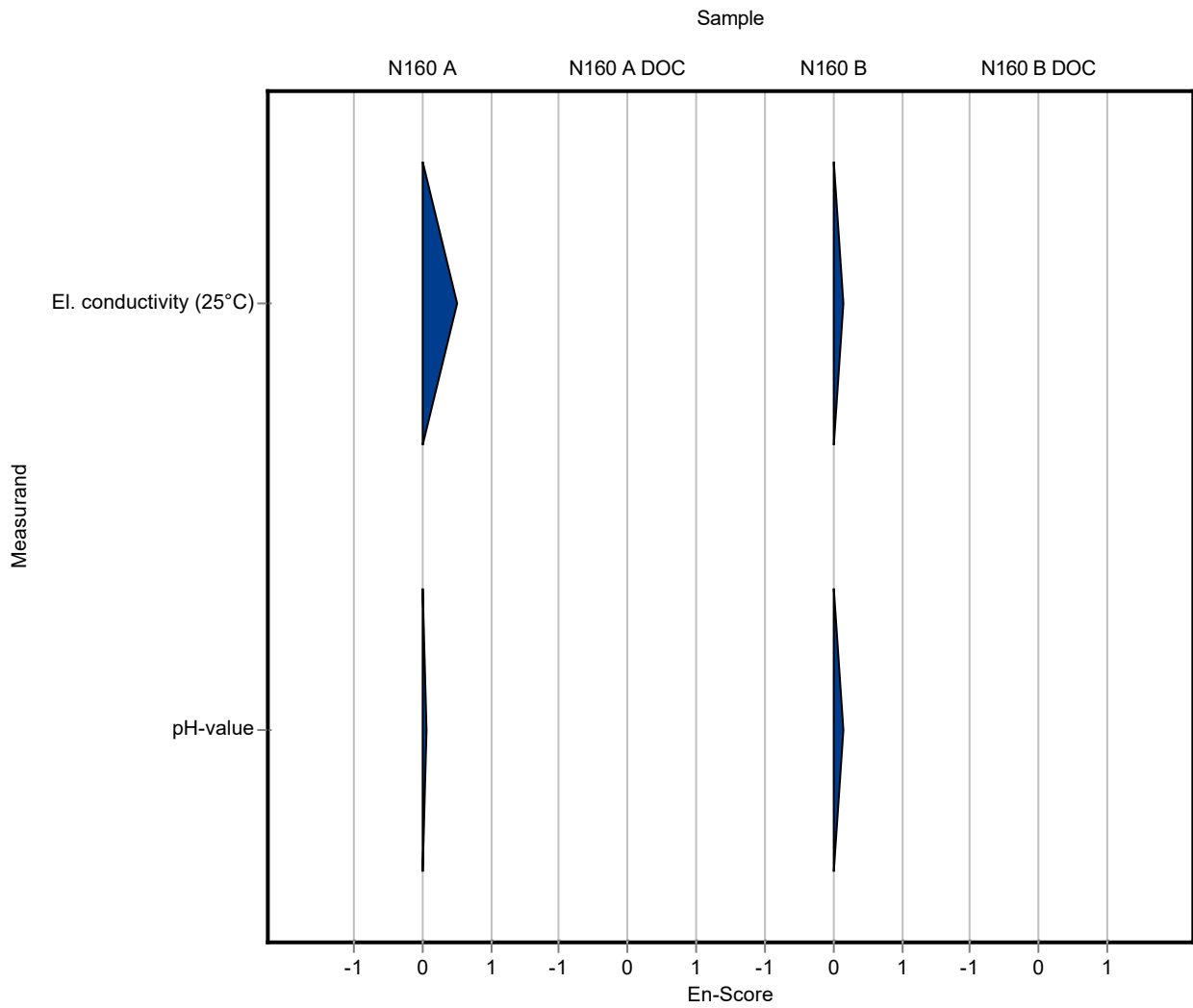
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 10	6.16	101	0.14
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.1 ± 0.1	0.161	100	0.15
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.94 ± 0.4	0.159	99.9	-0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.09 ± 0.01	0.00952	113	1.12
Boron	mg/l	0.0747 ± 0.00166	0.071 ± 0.004	0.00822	95	-0.45
Calcium	mg/l	143 ± 1.42	142 ± 8	4.42	99.6	-0.13
Chloride	mg/l	72.1 ± 0.47	69.1 ± 3.5	2.89	95.8	-1.06
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1060 ± 19	13.6	101	0.76
Hydrogen carbonate	mg/l	483 ± 1.82	481 ± 25	9.66	99.6	-0.20
Magnesium	mg/l	35.3 ± 0.274	38 ± 1.9	1.41	108	1.95
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.3 ± 1.2	1.19	98	-0.41
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.294 ± 0.03	0.0153	102	0.37
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.074 ± 0.008	0.00987	120	1.25
pH-value	-	7.69 ± 0.0265	7.47 ± 0.1	0.154	97.2	-1.41
Potassium	mg/l	5.32 ± 0.0504	5.29 ± 0.27	0.277	99.4	-0.12
Sodium	mg/l	31.6 ± 0.245	33.3 ± 1.7	1.07	105	1.57
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.3 ± 2.7	1.78	99	-0.32
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.24 ± 0.13	0.0891	104	0.58
Total hardness	mmol/l	5 ± 0.0376	5.11 ± 0.26	0.15	102	0.70
Total nitrogen	mg/l	5.67 ± 0.147	5.6 ± 0.57	0.47	98.9	-0.14

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.17 ± 0.18	0.208	104	0.43

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.52 ± 0.18	0.0704	100	0.03
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.3 ± 0.03	0.0341	105	0.45
Boron	mg/l	0.0149 ± 0.000559	0.013 ± 0.001	0.00164	87.2	-1.16
Calcium	mg/l	61.3 ± 0.649	59.9 ± 3	1.9	97.7	-0.74

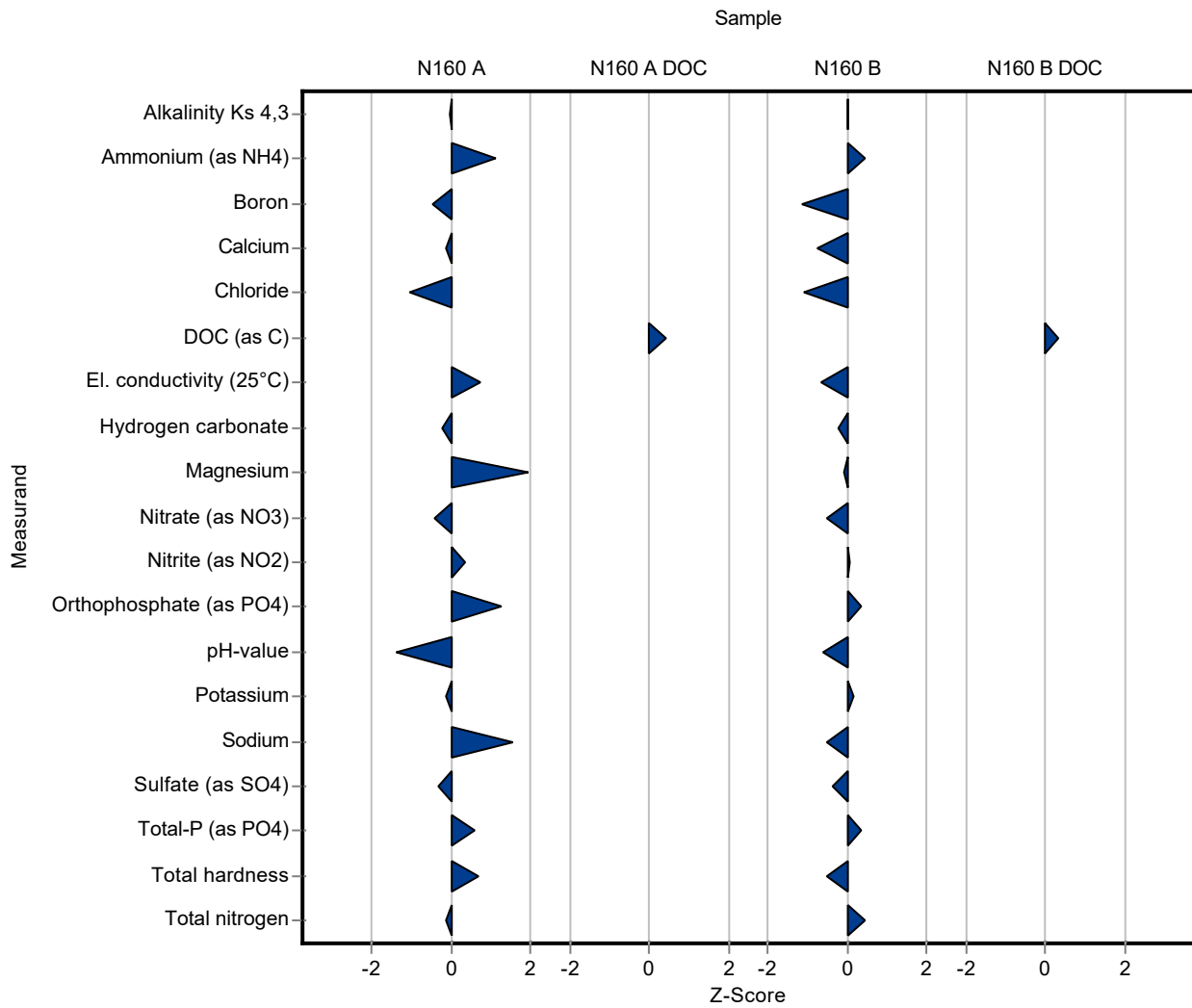
Summary of results Nutrients/Major Ions N160

Labcode: LC0009

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.3 ± 1.1	0.891	95.6	-1.10
El. conductivity (25°C)	µS/cm	474 ± 1.13	470 ± 8	6.16	99.1	-0.67
Hydrogen carbonate	mg/l	213 ± 1.3	212 ± 11	4.26	99.5	-0.24
Magnesium	mg/l	14.9 ± 0.135	14.9 ± 0.8	0.598	99.7	-0.08
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.1 ± 0.7	0.672	97.5	-0.50
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.194 ± 0.02	0.0102	100	0.08
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.115 ± 0.012	0.0174	106	0.35
pH-value	-	8.07 ± 0.019	7.97 ± 0.1	0.161	98.8	-0.62
Potassium	mg/l	2.18 ± 0.0235	2.2 ± 0.11	0.113	101	0.17
Sodium	mg/l	14.3 ± 0.118	14 ± 0.7	0.485	98.2	-0.54
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.1 ± 1.5	0.973	98.7	-0.40
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.951 ± 0.096	0.0694	103	0.37
Total hardness	mmol/l	2.14 ± 0.0185	2.11 ± 0.11	0.0643	98.4	-0.54
Total nitrogen	mg/l	3.42 ± 0.0995	3.54 ± 0.36	0.284	104	0.43

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.71 ± 0.22	0.263	103	0.32



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.94 ± 0.4	0.159	99.9	-0.01
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.09 ± 0.01	0.00952	113	0.53
Boron	mg/l	0.0747 ± 0.00166	0.071 ± 0.004	0.00822	95	-0.46
Calcium	mg/l	143 ± 1.42	142 ± 8	4.42	99.6	-0.04
Chloride	mg/l	72.1 ± 0.47	69.1 ± 3.5	2.89	95.8	-0.43
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1060 ± 19	13.6	101	0.27
Hydrogen carbonate	mg/l	483 ± 1.82	481 ± 25	9.66	99.6	-0.04
Magnesium	mg/l	35.3 ± 0.274	38 ± 1.9	1.41	108	0.72
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.3 ± 1.2	1.19	98	-0.20
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.294 ± 0.03	0.0153	102	0.09
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.074 ± 0.008	0.00987	120	0.76
pH-value	-	7.69 ± 0.0265	7.47 ± 0.1	0.154	97.2	-1.07
Potassium	mg/l	5.32 ± 0.0504	5.29 ± 0.27	0.277	99.4	-0.06
Sodium	mg/l	31.6 ± 0.245	33.3 ± 1.7	1.07	105	0.49
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.3 ± 2.7	1.78	99	-0.10
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.24 ± 0.13	0.0891	104	0.20
Total hardness	mmol/l	5 ± 0.0376	5.11 ± 0.26	0.15	102	0.20
Total nitrogen	mg/l	5.67 ± 0.147	5.6 ± 0.57	0.47	98.9	-0.06

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.17 ± 0.18	0.208	104	0.25

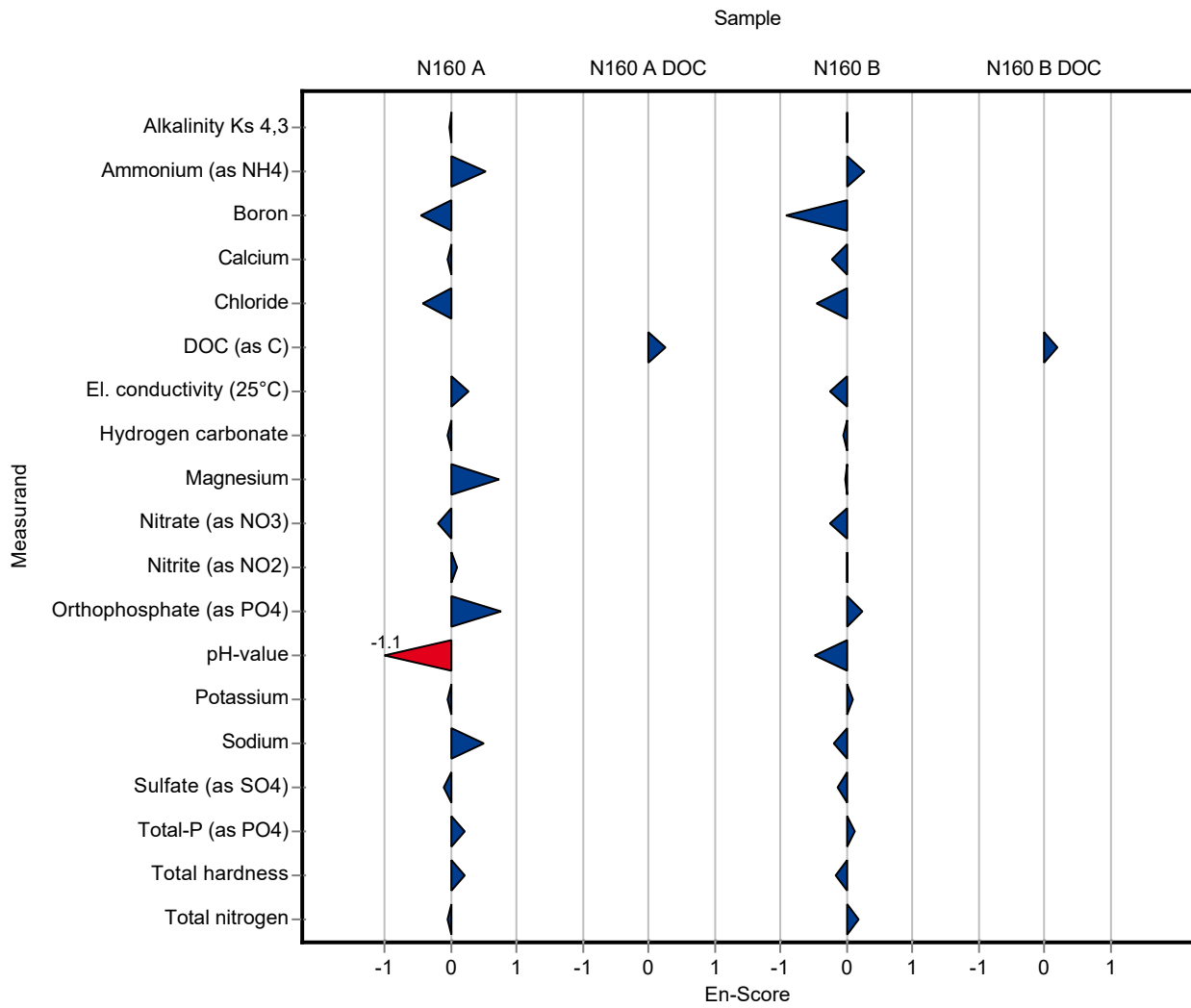
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.52 ± 0.18	0.0704	100	0.01
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.3 ± 0.03	0.0341	105	0.26
Boron	mg/l	0.0149 ± 0.000559	0.013 ± 0.001	0.00164	87.2	-0.92

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	59.9 ± 3	1.9	97.7	-0.23
Chloride	mg/l	22.3 ± 0.157	21.3 ± 1.1	0.891	95.6	-0.44
El. conductivity (25°C)	µS/cm	474 ± 1.13	470 ± 8	6.16	99.1	-0.26
Hydrogen carbonate	mg/l	213 ± 1.3	212 ± 11	4.26	99.5	-0.05
Magnesium	mg/l	14.9 ± 0.135	14.9 ± 0.8	0.598	99.7	-0.03
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.1 ± 0.7	0.672	97.5	-0.24
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.194 ± 0.02	0.0102	100	0.02
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.115 ± 0.012	0.0174	106	0.25
pH-value	-	8.07 ± 0.019	7.97 ± 0.1	0.161	98.8	-0.50
Potassium	mg/l	2.18 ± 0.0235	2.2 ± 0.11	0.113	101	0.09
Sodium	mg/l	14.3 ± 0.118	14 ± 0.7	0.485	98.2	-0.19
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.1 ± 1.5	0.973	98.7	-0.13
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.951 ± 0.096	0.0694	103	0.13
Total hardness	mmol/l	2.14 ± 0.0185	2.11 ± 0.11	0.0643	98.4	-0.16
Total nitrogen	mg/l	3.42 ± 0.0995	3.54 ± 0.36	0.284	104	0.17

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.71 ± 0.22	0.263	103	0.19



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

Summary of results Nutrients/Major Ions N160

Labcode: LC0010

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-

Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-

Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	5.32 ± 0.27	0.47	93.9	-0.73

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.34 ± 0.14	0.208	113	1.25

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

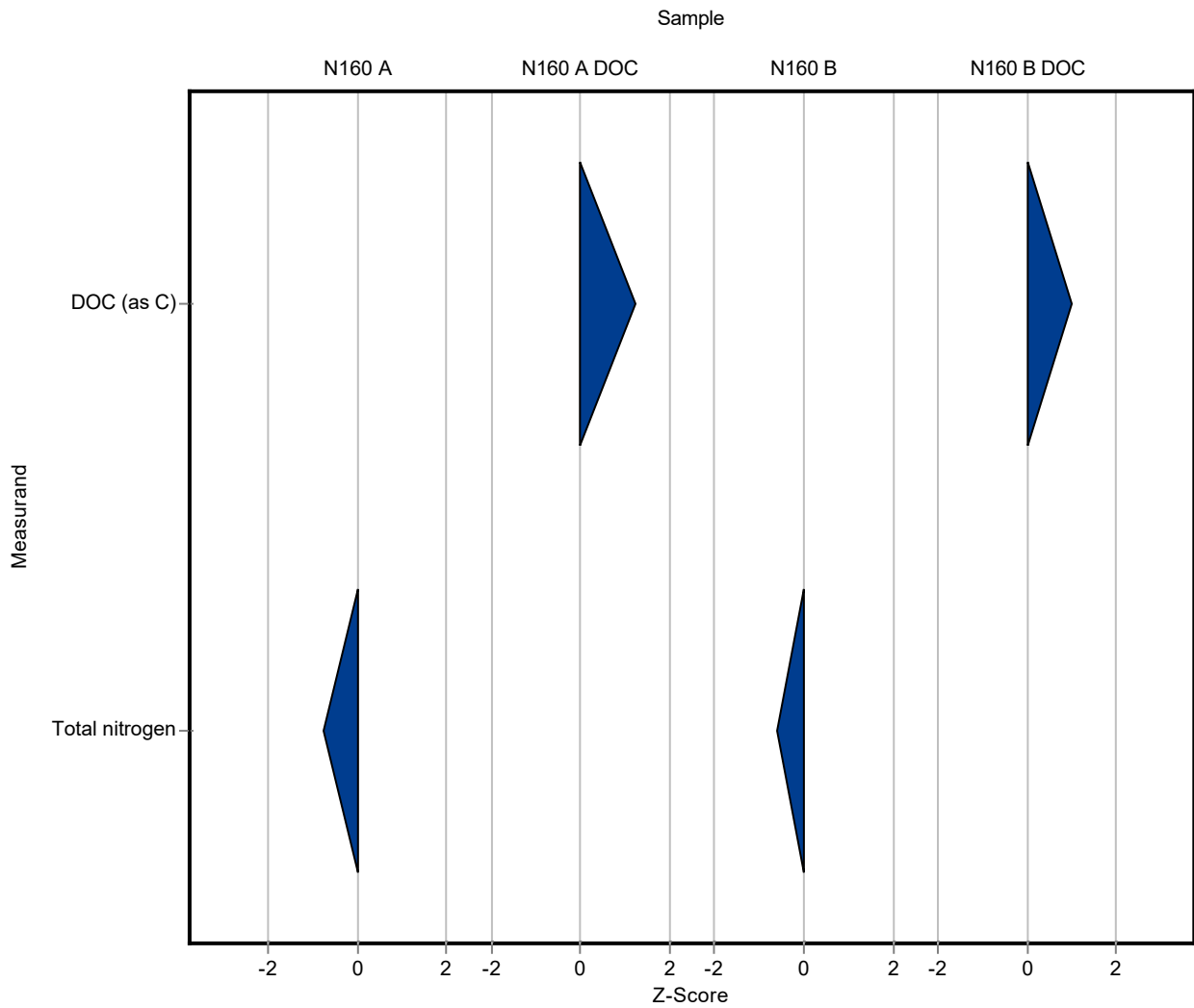
Summary of results Nutrients/Major Ions N160

Labcode: LC0011

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.25 ± 0.16	0.284	95.1	-0.60

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.89 ± 0.17	0.263	110	1.00



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	5.32 ± 0.27	0.47	93.9	-0.62

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.34 ± 0.14	0.208	113	0.91

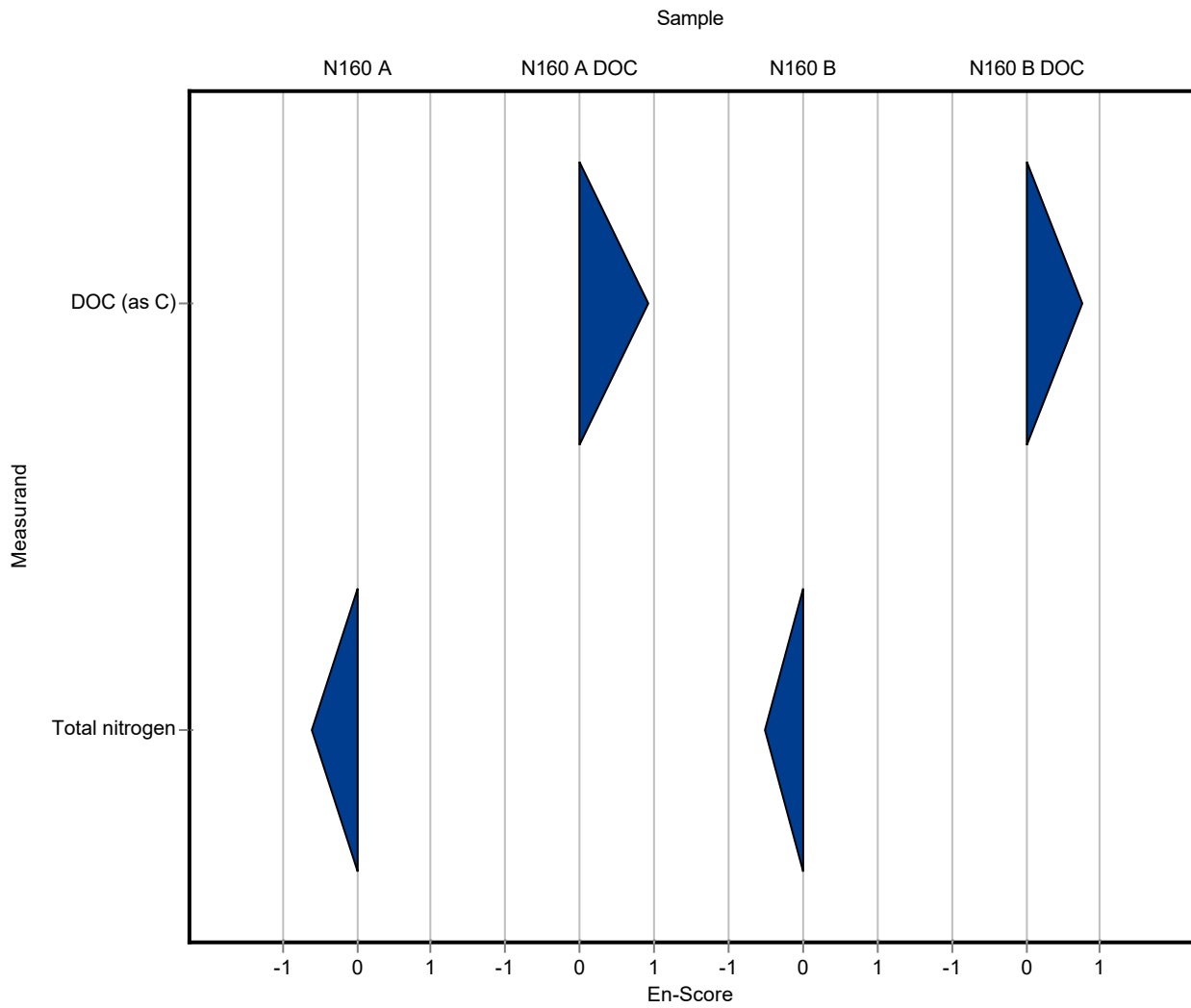
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.25 ± 0.16	0.284	95.1	-0.50

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.89 ± 0.17	0.263	110	0.76



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	141.25 ± 5	4.42	99.1	-0.30
Chloride	mg/l	72.1 ± 0.47	72.35 ± 1	2.89	100	0.07
El. conductivity (25°C)	µS/cm	1050 ± 3.6	995.5 ± 2	13.6	94.8	-3.97
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	38.9 ± 2.5	1.41	110	2.59
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.93 ± 0.8	1.19	101	0.12
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.14 ± 0.1	0.154	92.9	-3.55
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	62 ± 5	1.78	115	4.58
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	5.12 ± 0.53	0.15	102	0.77
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	60.63 ± 5	1.9	98.9	-0.36

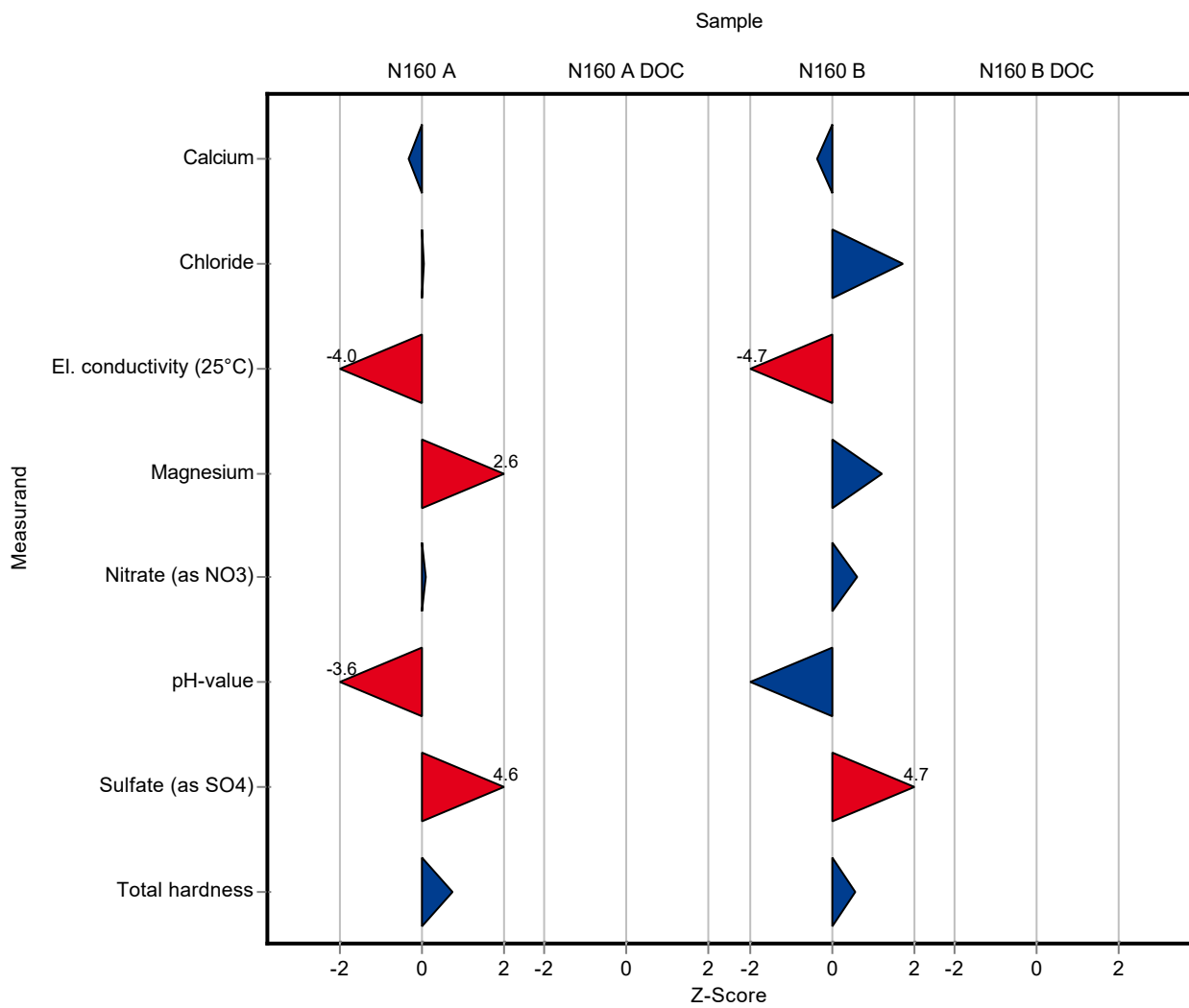
Summary of results Nutrients/Major Ions N160

Labcode: LC0012

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	23.83 ± 1	0.891	107	1.74
El. conductivity (25°C)	µS/cm	474 ± 1.13	445.25 ± 2	6.16	93.9	-4.69
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.68 ± 2.5	0.598	105	1.22
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.85 ± 0.8	0.672	103	0.61
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	7.75 ± 0.1	0.161	96	-1.98
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	34.05 ± 5	0.973	115	4.69
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.18 ± 0.53	0.0643	102	0.55
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	141.25 ± 5	4.42	99.1	-0.13
Chloride	mg/l	72.1 ± 0.47	72.35 ± 1	2.89	100	0.10
El. conductivity (25°C)	µS/cm	1050 ± 3.6	995.5 ± 2	13.6	94.8	-10.10
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	38.9 ± 2.5	1.41	110	0.73
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.93 ± 0.8	1.19	101	0.09
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.14 ± 0.1	0.154	92.9	-2.71
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	62 ± 5	1.78	115	0.81
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	5.12 ± 0.53	0.15	102	0.11
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

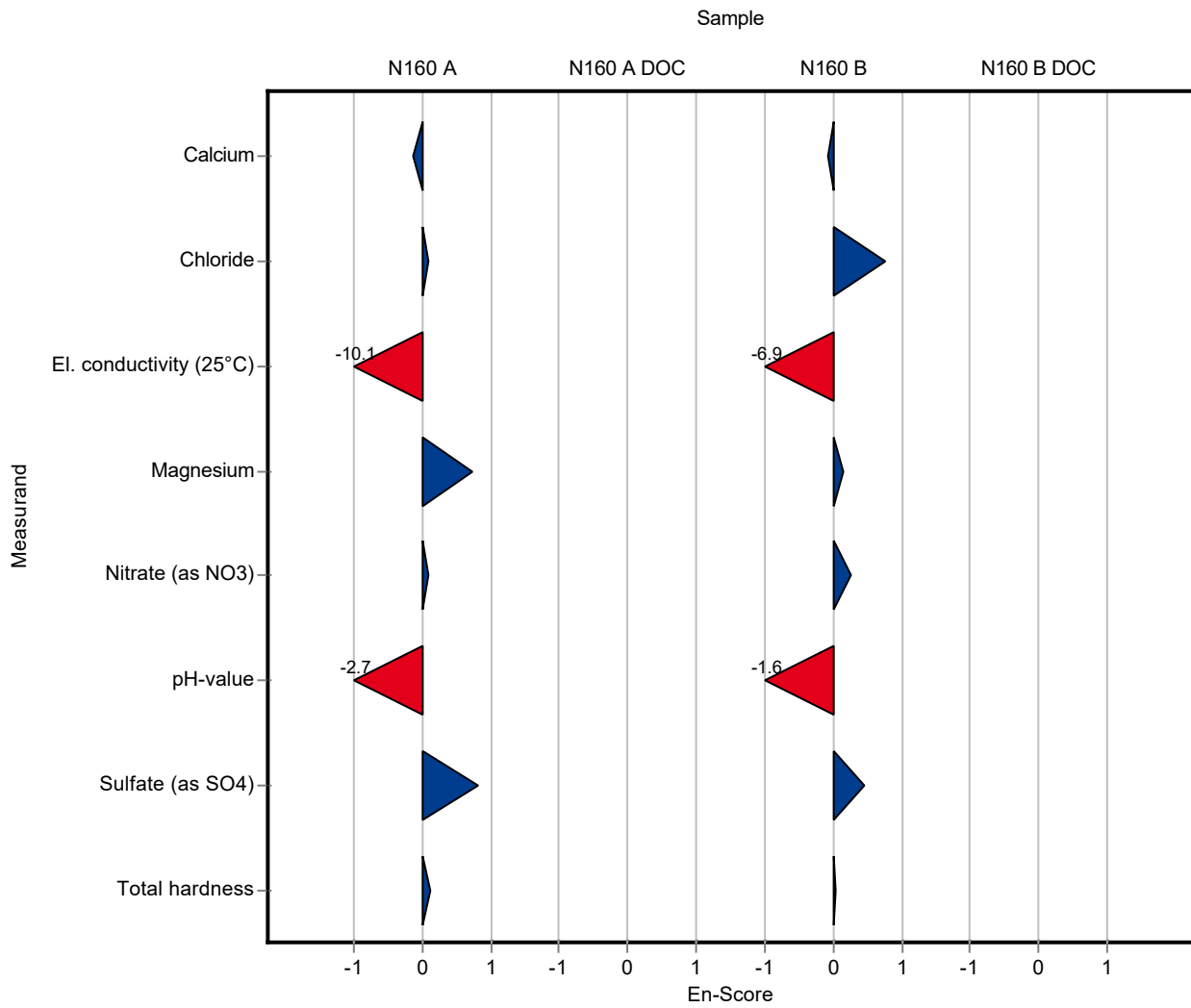
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	60.63 ± 5	1.9	98.9	-0.07
Chloride	mg/l	22.3 ± 0.157	23.83 ± 1	0.891	107	0.77
El. conductivity (25°C)	µS/cm	474 ± 1.13	445.25 ± 2	6.16	93.9	-6.95
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.68 ± 2.5	0.598	105	0.15
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.85 ± 0.8	0.672	103	0.26
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	7.75 ± 0.1	0.161	96	-1.59
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	34.05 ± 5	0.973	115	0.46
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.18 ± 0.53	0.0643	102	0.03
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.09 ± 0.0068	0.00952	113	1.12
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.197 ± 0.979	1.19	97.5	-0.49
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0445 ± 0.0323	0.00987	72.2	-1.74
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.159 ± 0.0347	0.0891	97.6	-0.32
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.84 ± 0.19	0.208	88.5	-1.15

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

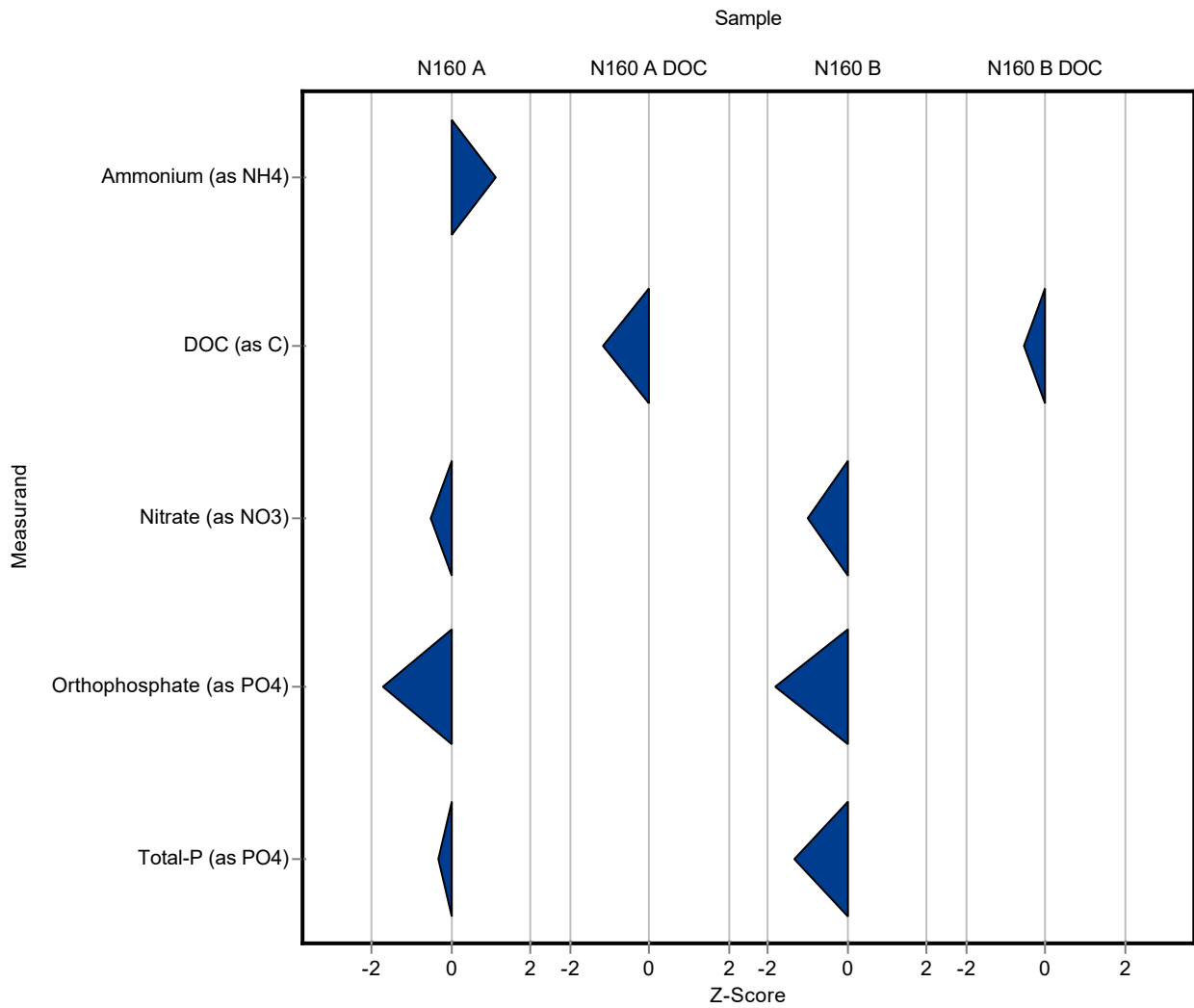
Summary of results Nutrients/Major Ions N160

Labcode: LC0013

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.75 ± 0.796	0.672	94.9	-1.02
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.077 ± 0.0206	0.0174	70.7	-1.83
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.831 ± 0.0347	0.0694	89.8	-1.36
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.484 ± 0.011	0.263	94.6	-0.54



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.09 ± 0.0068	0.00952	113	0.77
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.197 ± 0.979	1.19	97.5	-0.30
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0445 ± 0.0323	0.00987	72.2	-0.27
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.159 ± 0.0347	0.0891	97.6	-0.40
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.84 ± 0.19	0.208	88.5	-0.62

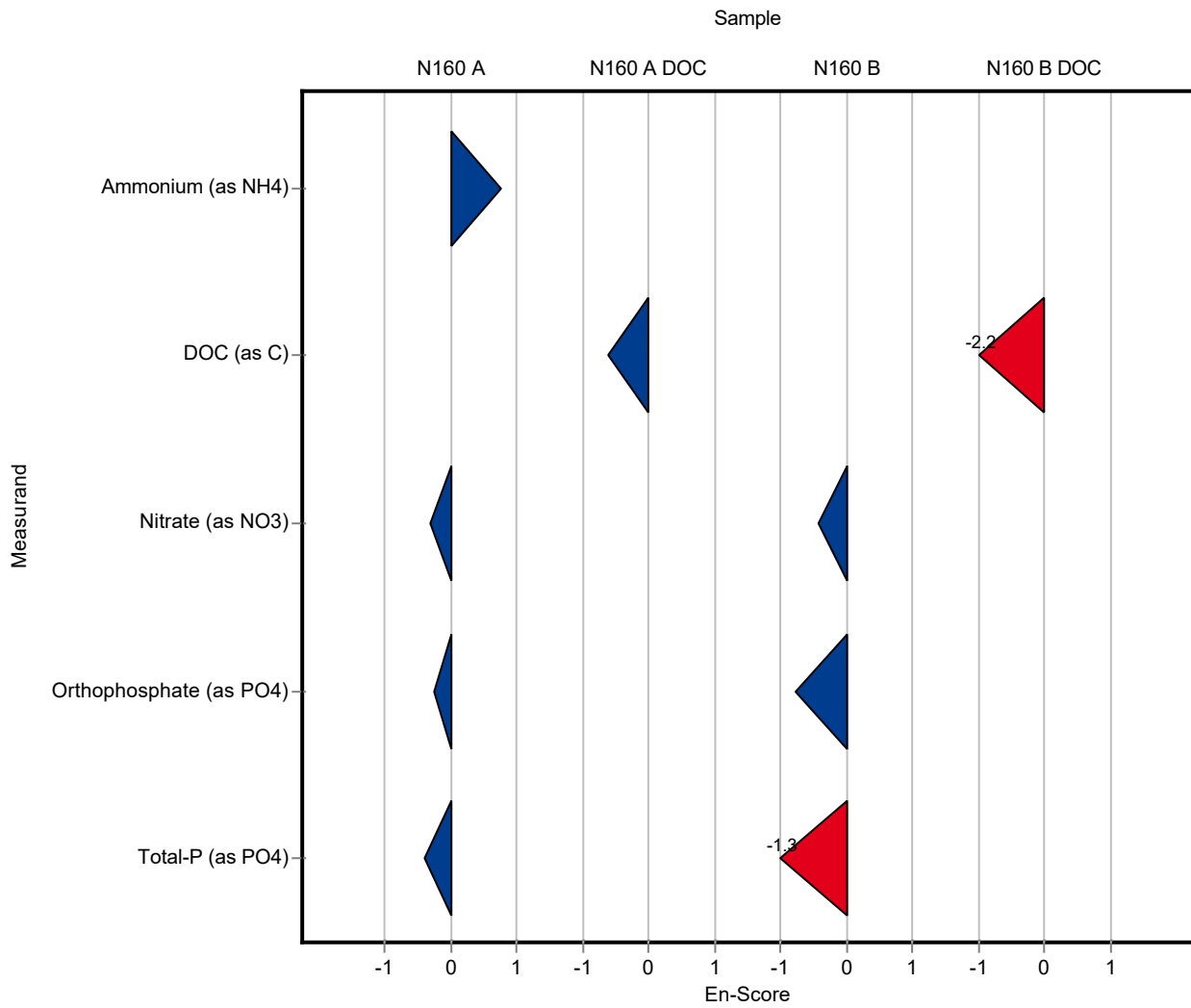
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.75 ± 0.796	0.672	94.9	-0.43
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.077 ± 0.0206	0.0174	70.7	-0.77
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.831 ± 0.0347	0.0694	89.8	-1.33
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.484 ± 0.011	0.263	94.6	-2.17



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.96 ± 0.05	0.159	100	0.09
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.084 ± 0.004	0.00952	106	0.49
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	143.38 ± 2.7	4.42	101	0.18
Chloride	mg/l	72.1 ± 0.47	74.6 ± 1.69	2.89	103	0.85
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1029.6 ± 3	13.6	98.1	-1.47
Hydrogen carbonate	mg/l	483 ± 1.82	482.77 ± 2.9	9.66	100	-0.02
Magnesium	mg/l	35.3 ± 0.274	35.93 ± 1.9	1.41	102	0.48
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.28 ± 0.62	1.19	102	0.42
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.3 ± 0.016	0.0153	104	0.76
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0527 ± 0.004	0.00987	85.5	-0.91
pH-value	-	7.69 ± 0.0265	7.64 ± 0.01	0.154	99.4	-0.30
Potassium	mg/l	5.32 ± 0.0504	5.24 ± 0.18	0.277	98.4	-0.30
Sodium	mg/l	31.6 ± 0.245	31.94 ± 0.7	1.07	101	0.30
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.94 ± 1.44	1.78	104	1.17
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.192 ± 0.112	0.0891	100	0.05
Total hardness	mmol/l	5 ± 0.0376	3.58 ± 0.07	0.15	71.5	-9.49
Total nitrogen	mg/l	5.67 ± 0.147	6.34 ± 0.351	0.47	112	1.44

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.74 ± 0.2	0.208	132	3.17

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.59 ± 0.02	0.0704	102	1.03
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.273 ± 0.013	0.0341	96	-0.34
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	61.34 ± 1.1	1.9	100	0.02

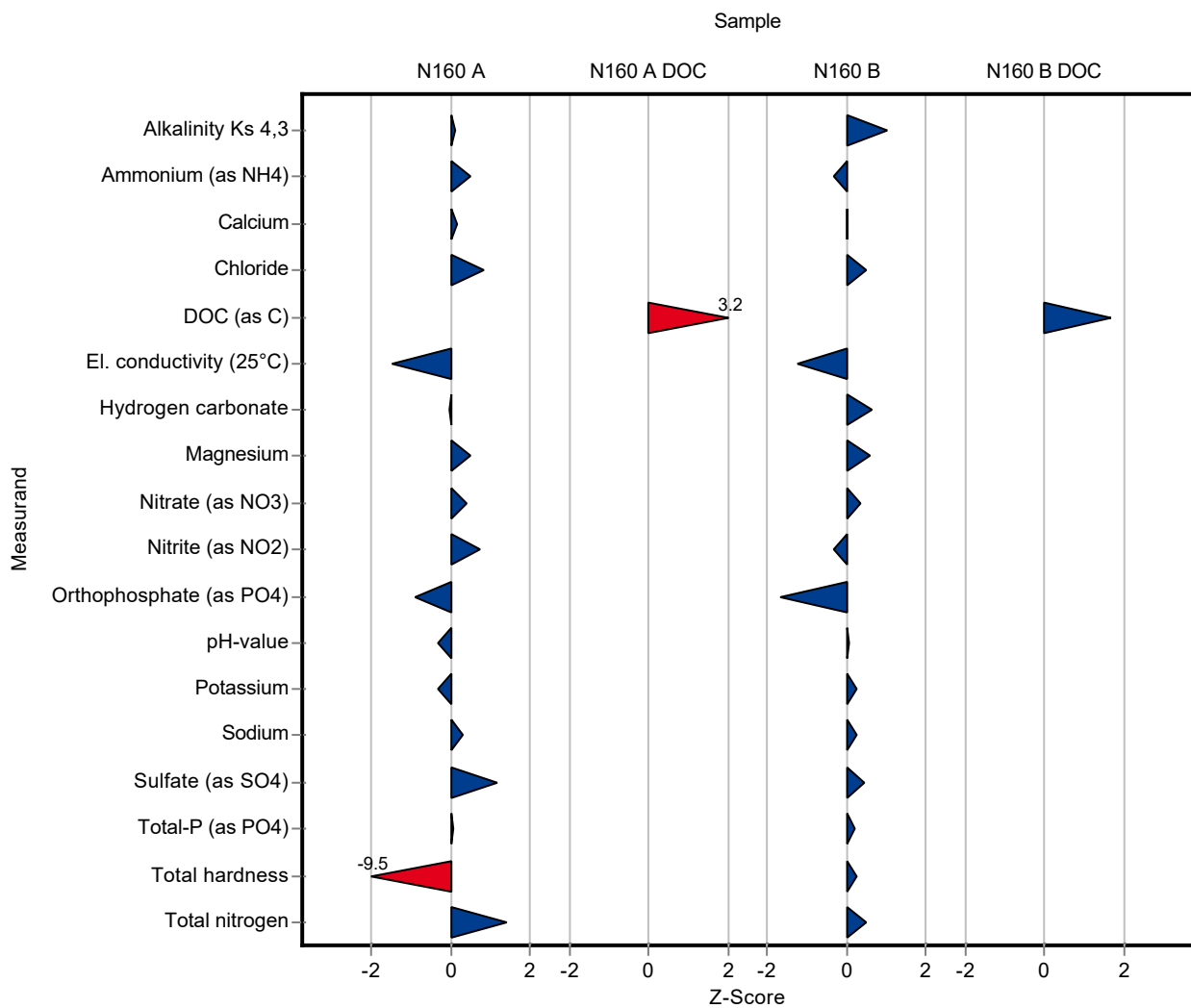
Summary of results Nutrients/Major Ions N160

Labcode: LC0014

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.7 ± 0.51	0.891	102	0.47
El. conductivity (25°C)	µS/cm	474 ± 1.13	466.4 ± 1	6.16	98.4	-1.25
Hydrogen carbonate	mg/l	213 ± 1.3	215.82 ± 1.3	4.26	101	0.65
Magnesium	mg/l	14.9 ± 0.135	15.31 ± 0.8	0.598	102	0.60
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.68 ± 0.35	0.672	102	0.36
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.19 ± 0.01	0.0102	98.4	-0.31
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.08 ± 0.007	0.0174	73.4	-1.66
pH-value	-	8.07 ± 0.019	8.08 ± 0.01	0.161	100	0.06
Potassium	mg/l	2.18 ± 0.0235	2.21 ± 0.076	0.113	101	0.26
Sodium	mg/l	14.3 ± 0.118	14.39 ± 0.3	0.485	101	0.27
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.93 ± 0.8	0.973	102	0.46
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.938 ± 0.088	0.0694	101	0.18
Total hardness	mmol/l	2.14 ± 0.0185	2.16 ± 0.04	0.0643	101	0.24
Total nitrogen	mg/l	3.42 ± 0.0995	3.56 ± 0.197	0.284	104	0.50

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	3.07 ± 0.22	0.263	117	1.69



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.96 ± 0.05	0.159	100	0.14
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.084 ± 0.004	0.00952	106	0.55
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	143.38 ± 2.7	4.42	101	0.14
Chloride	mg/l	72.1 ± 0.47	74.6 ± 1.69	2.89	103	0.72
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1029.6 ± 3	13.6	98.1	-2.87
Hydrogen carbonate	mg/l	483 ± 1.82	482.77 ± 2.9	9.66	100	-0.03
Magnesium	mg/l	35.3 ± 0.274	35.93 ± 1.9	1.41	102	0.18
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.28 ± 0.62	1.19	102	0.40
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.3 ± 0.016	0.0153	104	0.36
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0527 ± 0.004	0.00987	85.5	-1.04
pH-value	-	7.69 ± 0.0265	7.64 ± 0.01	0.154	99.4	-1.39
Potassium	mg/l	5.32 ± 0.0504	5.24 ± 0.18	0.277	98.4	-0.23
Sodium	mg/l	31.6 ± 0.245	31.94 ± 0.7	1.07	101	0.23
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.94 ± 1.44	1.78	104	0.71
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.192 ± 0.112	0.0891	100	0.02
Total hardness	mmol/l	5 ± 0.0376	3.58 ± 0.07	0.15	71.5	-9.83
Total nitrogen	mg/l	5.67 ± 0.147	6.34 ± 0.351	0.47	112	0.94

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.74 ± 0.2	0.208	132	1.63

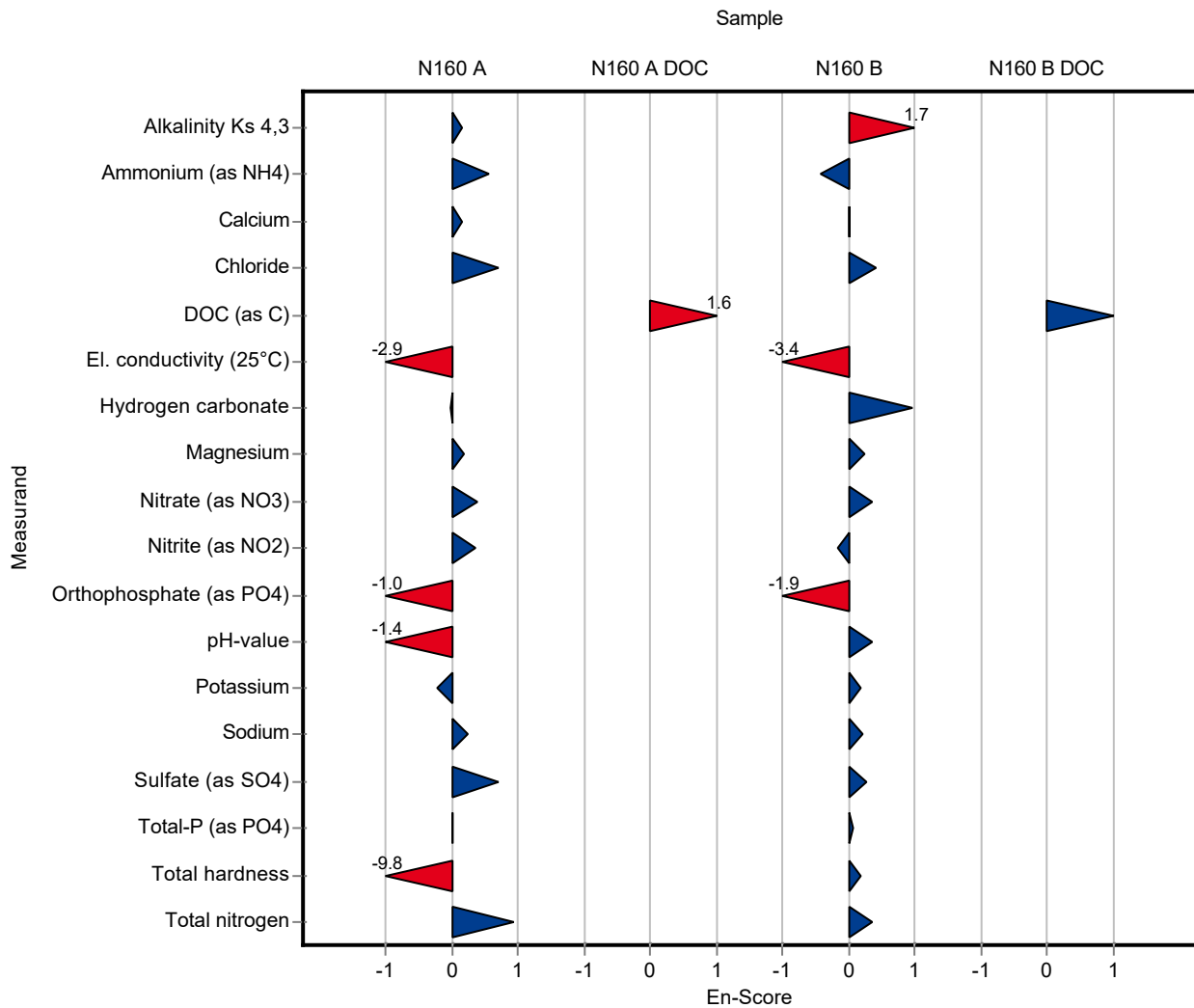
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.59 ± 0.02	0.0704	102	1.70
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.273 ± 0.013	0.0341	96	-0.43
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61.34 ± 1.1	1.9	100	0.01
Chloride	mg/l	22.3 ± 0.157	22.7 ± 0.51	0.891	102	0.41
El. conductivity (25°C)	µS/cm	474 ± 1.13	466.4 ± 1	6.16	98.4	-3.37
Hydrogen carbonate	mg/l	213 ± 1.3	215.82 ± 1.3	4.26	101	0.96
Magnesium	mg/l	14.9 ± 0.135	15.31 ± 0.8	0.598	102	0.22
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.68 ± 0.35	0.672	102	0.34
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.19 ± 0.01	0.0102	98.4	-0.16
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.08 ± 0.007	0.0174	73.4	-1.92
pH-value	-	8.07 ± 0.019	8.08 ± 0.01	0.161	100	0.37
Potassium	mg/l	2.18 ± 0.0235	2.21 ± 0.076	0.113	101	0.19
Sodium	mg/l	14.3 ± 0.118	14.39 ± 0.3	0.485	101	0.21
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.93 ± 0.8	0.973	102	0.28
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.938 ± 0.088	0.0694	101	0.07
Total hardness	mmol/l	2.14 ± 0.0185	2.16 ± 0.04	0.0643	101	0.19
Total nitrogen	mg/l	3.42 ± 0.0995	3.56 ± 0.197	0.284	104	0.35

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	3.07 ± 0.22	0.263	117	1.00



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.9 ± 0.223	0.159	99.4	-0.28
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0723 ± 0.0109	0.00952	91.1	-0.74
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	72.4 ± 0.734	2.89	100	0.09
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1056 ± 7.48	13.6	101	0.46
Hydrogen carbonate	mg/l	483 ± 1.82	481 ± 6.95	9.66	99.6	-0.20
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.3 ± 1.6	1.19	98	-0.41
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.289 ± 0.0289	0.0153	100	0.04
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0635 ± 0.00745	0.00987	103	0.19
pH-value	-	7.69 ± 0.0265	7.78 ± 0.0104	0.154	101	0.61
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.11 ± 0.147	0.0891	93.4	-0.87
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.51 ± 0.0989	0.0704	99.8	-0.11
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.293 ± 0.0441	0.0341	103	0.25
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

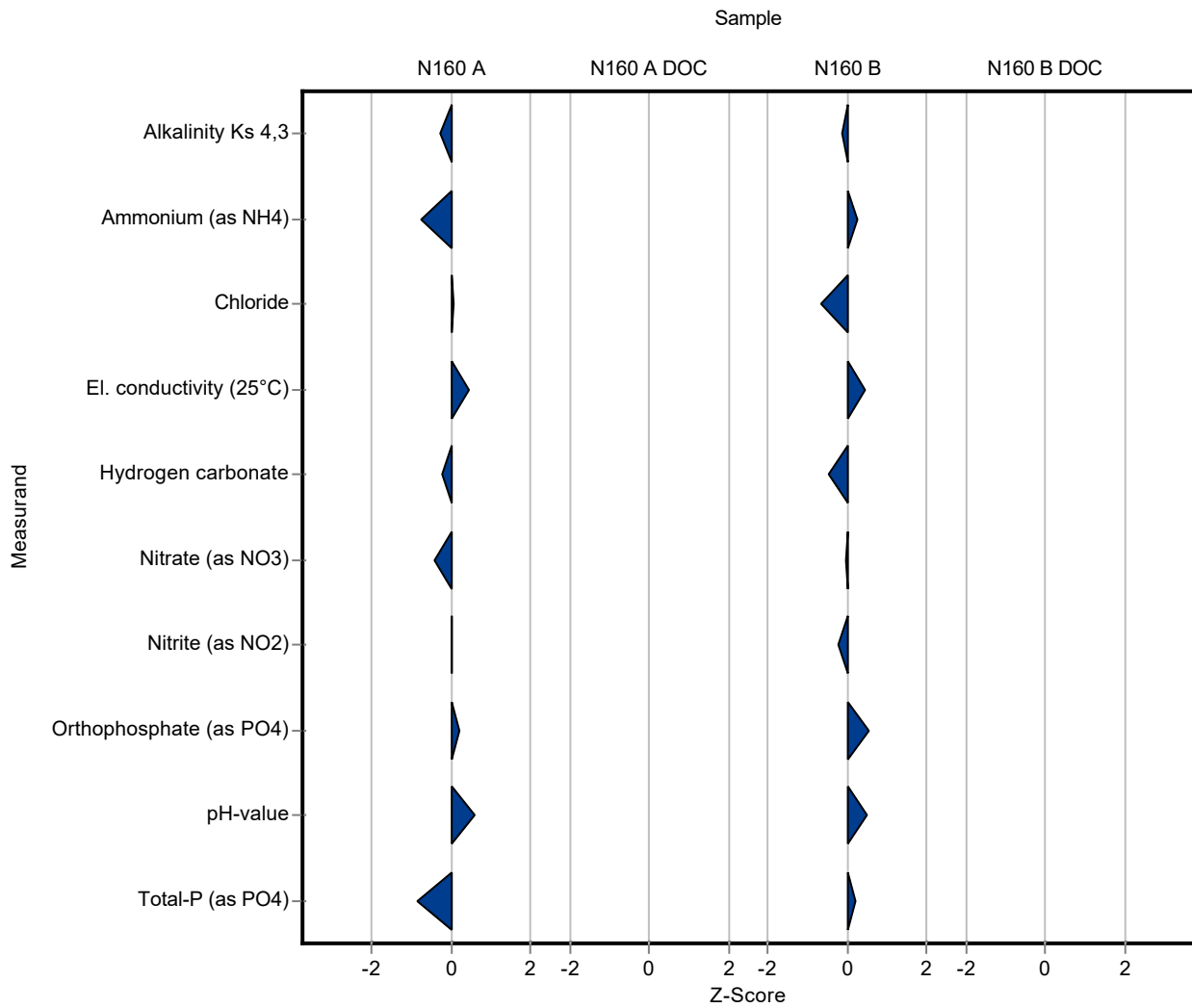
Summary of results Nutrients/Major Ions N160

Labcode: LC0015

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.7 ± 0.22	0.891	97.4	-0.65
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 3.38	6.16	101	0.47
Hydrogen carbonate	mg/l	213 ± 1.3	211 ± 3.05	4.26	99	-0.48
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.4 ± 0.918	0.672	99.7	-0.06
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.191 ± 0.0191	0.0102	98.9	-0.21
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.118 ± 0.0138	0.0174	108	0.52
pH-value	-	8.07 ± 0.019	8.15 ± 0.0109	0.161	101	0.50
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.941 ± 0.124	0.0694	102	0.22
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.9 ± 0.223	0.159	99.4	-0.10
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0723 ± 0.0109	0.00952	91.1	-0.32
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	72.4 ± 0.734	2.89	100	0.16
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1056 ± 7.48	13.6	101	0.41
Hydrogen carbonate	mg/l	483 ± 1.82	481 ± 6.95	9.66	99.6	-0.14
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.3 ± 1.6	1.19	98	-0.15
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.289 ± 0.0289	0.0153	100	0.01
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0635 ± 0.00745	0.00987	103	0.12
pH-value	-	7.69 ± 0.0265	7.78 ± 0.0104	0.154	101	2.78
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.11 ± 0.147	0.0891	93.4	-0.26
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.51 ± 0.0989	0.0704	99.8	-0.04
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.293 ± 0.0441	0.0341	103	0.10
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

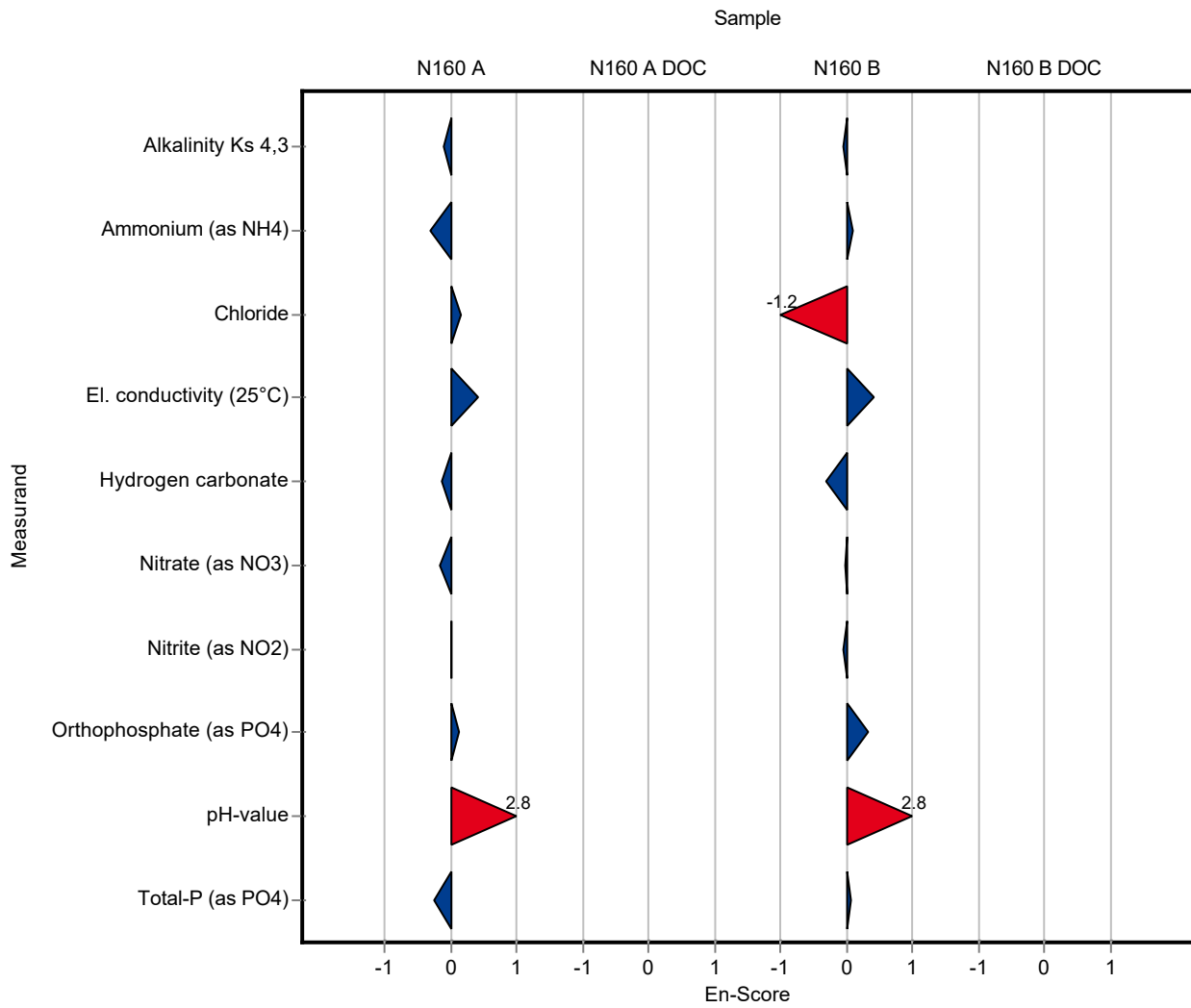
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0015

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	21.7 ± 0.22	0.891	97.4	-1.24
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 3.38	6.16	101	0.42
Hydrogen carbonate	mg/l	213 ± 1.3	211 ± 3.05	4.26	99	-0.33
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.4 ± 0.918	0.672	99.7	-0.02
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.191 ± 0.0191	0.0102	98.9	-0.06
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.118 ± 0.0138	0.0174	108	0.32
pH-value	-	8.07 ± 0.019	8.15 ± 0.0109	0.161	101	2.77
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.941 ± 0.124	0.0694	102	0.06
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.098 ± 0.01	0.00952	124	1.96
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	71.4 ± 7.6	2.89	99	-0.26
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1060 ± 1	13.6	101	0.76
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24 ± 2	1.19	101	0.18
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.292 ± 0.03	0.0153	101	0.23
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.019 ± 0.002	0.00987	30.8	-4.32
pH-value	-	7.69 ± 0.0265	7.86 ± 0.004	0.154	102	1.13
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.8 ± 4.6	1.78	99.9	-0.04
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.424 ± 0.06	0.0891	35.7	-8.57
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	5.72 ± 0.7	0.47	101	0.12

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.16 ± 0.3	0.208	104	0.39

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.28 ± 0.04	0.0341	98.4	-0.13
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

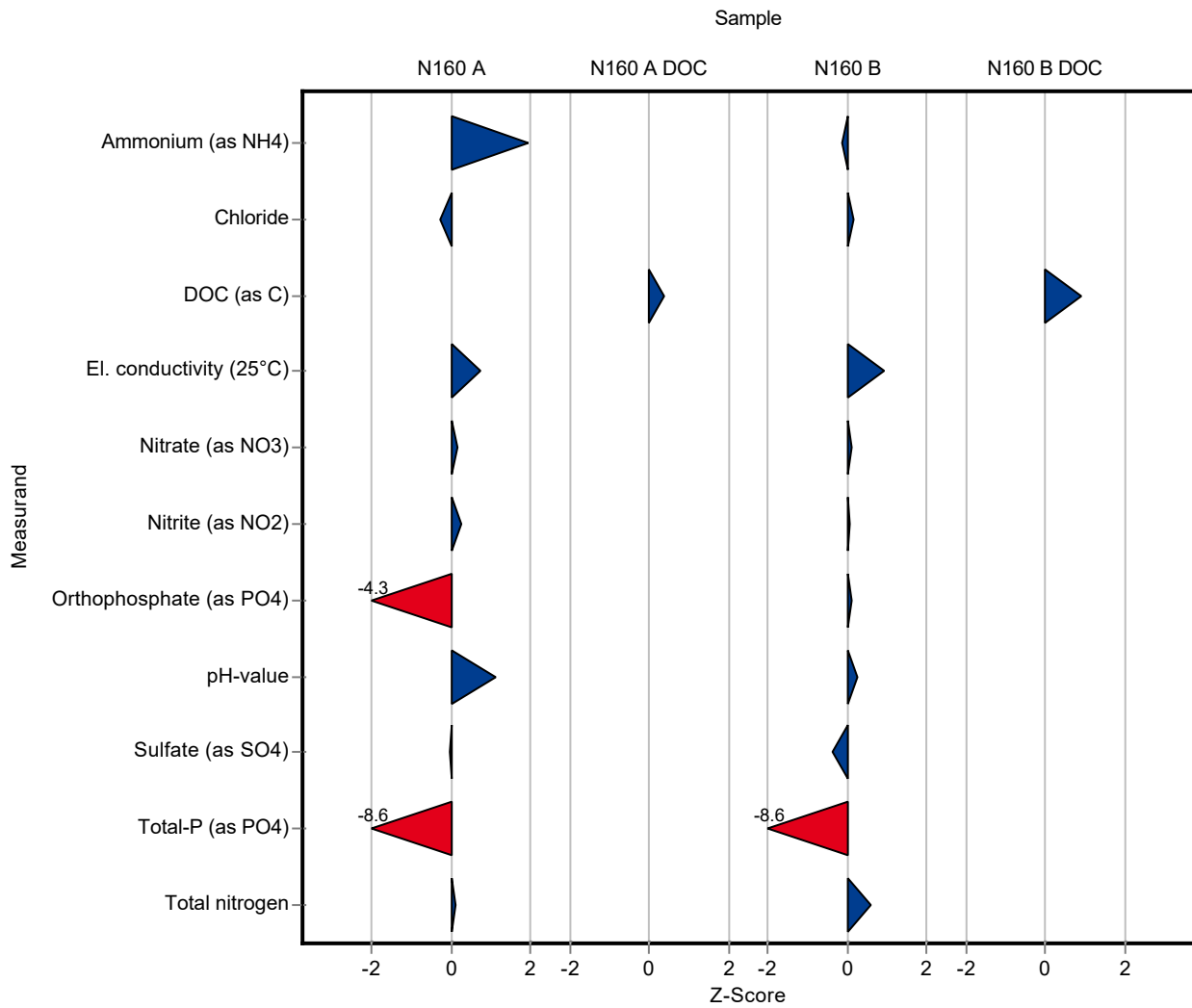
Summary of results Nutrients/Major Ions N160

Labcode: LC0016

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.4 ± 2.4	0.891	101	0.14
El. conductivity (25°C)	µS/cm	474 ± 1.13	480 ± 1	6.16	101	0.95
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.5 ± 1.5	0.672	100	0.09
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.194 ± 0.02	0.0102	100	0.08
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.111 ± 0.01	0.0174	102	0.12
pH-value	-	8.07 ± 0.019	8.11 ± 0.004	0.161	100	0.25
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.1 ± 2.5	0.973	98.7	-0.40
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.332 ± 0.04	0.0694	35.9	-8.55
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.59 ± 0.44	0.284	105	0.60

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.86 ± 0.3	0.263	109	0.89



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.098 ± 0.01	0.00952	124	0.93
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	71.4 ± 7.6	2.89	99	-0.05
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1060 ± 1	13.6	101	2.51
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24 ± 2	1.19	101	0.05
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.292 ± 0.03	0.0153	101	0.06
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.019 ± 0.002	0.00987	30.8	-8.28
pH-value	-	7.69 ± 0.0265	7.86 ± 0.004	0.154	102	6.27
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.8 ± 4.6	1.78	99.9	-0.01
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.424 ± 0.06	0.0891	35.7	-6.29
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	5.72 ± 0.7	0.47	101	0.04

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.16 ± 0.3	0.208	104	0.13

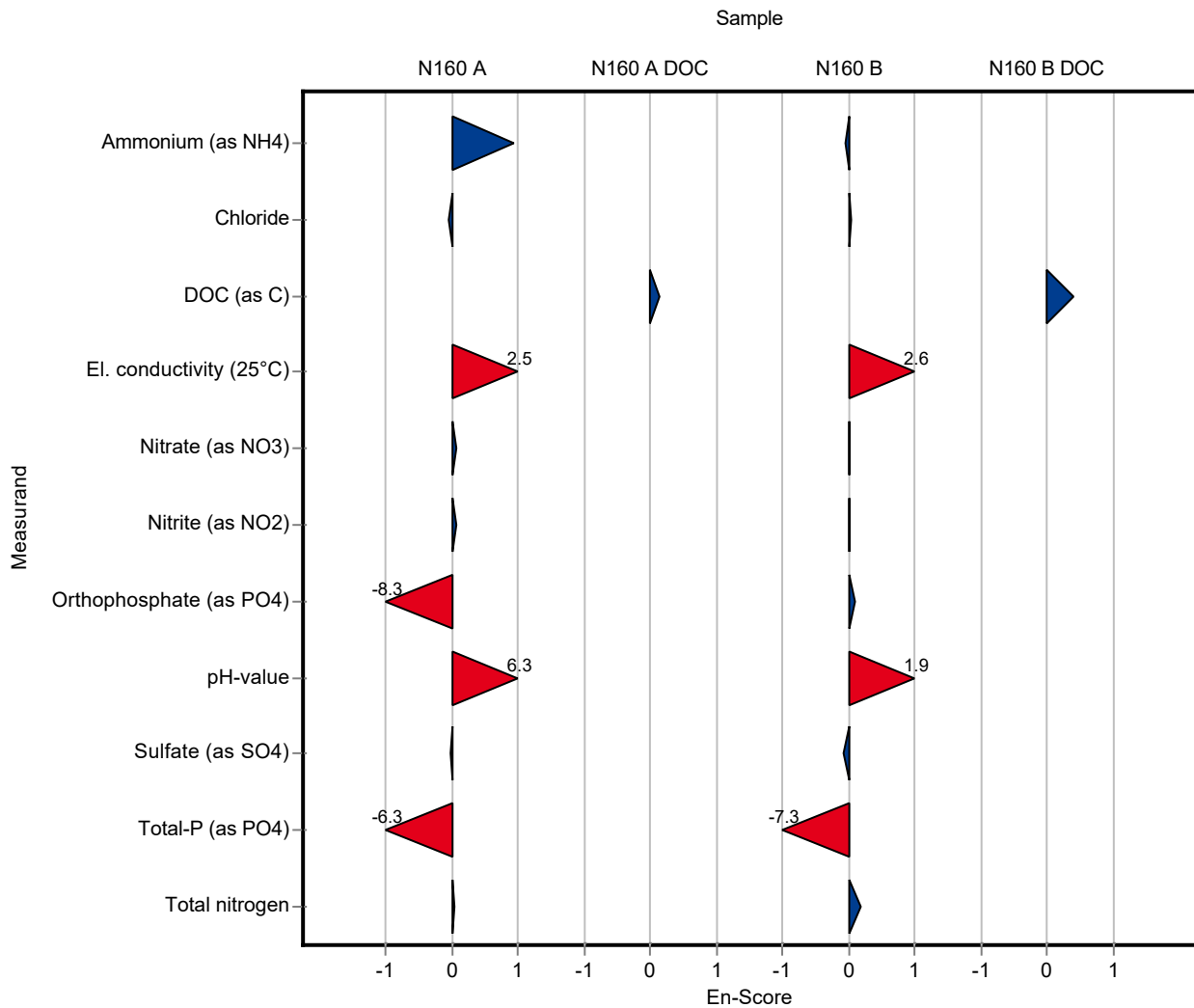
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.28 ± 0.04	0.0341	98.4	-0.06
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	22.4 ± 2.4	0.891	101	0.03
El. conductivity (25°C)	µS/cm	474 ± 1.13	480 ± 1	6.16	101	2.55
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.5 ± 1.5	0.672	100	0.02
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.194 ± 0.02	0.0102	100	0.02
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.111 ± 0.01	0.0174	102	0.10
pH-value	-	8.07 ± 0.019	8.11 ± 0.004	0.161	100	1.95
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.1 ± 2.5	0.973	98.7	-0.08
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.332 ± 0.04	0.0694	35.9	-7.29
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.59 ± 0.44	0.284	105	0.19

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.86 ± 0.3	0.263	109	0.39



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0881 ± 0.0067	0.00952	111	0.92
Boron	mg/l	0.0747 ± 0.00166	<0.1 (LOQ) ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	152 ± 17	4.42	107	2.13
Chloride	mg/l	72.1 ± 0.47	74.7 ± 1.9	2.89	104	0.88
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1039 ± 29	13.6	99	-0.78
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.9 ± 3.9	1.41	102	0.46
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.8 ± 0.54	1.19	100	0.01
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.282 ± 0.017	0.0153	97.8	-0.42
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0843 ± 0.0094	0.00987	137	2.30
pH-value	-	7.69 ± 0.0265	7.81 ± 0.18	0.154	102	0.81
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.1 ± 1.8	1.78	102	0.70
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	5.27 ± 0.26	0.15	105	1.77
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.288 ± 0.022	0.0341	101	0.10
Boron	mg/l	0.0149 ± 0.000559	<0.1 (LOQ) ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	68.1 ± 7.4	1.9	111	3.57

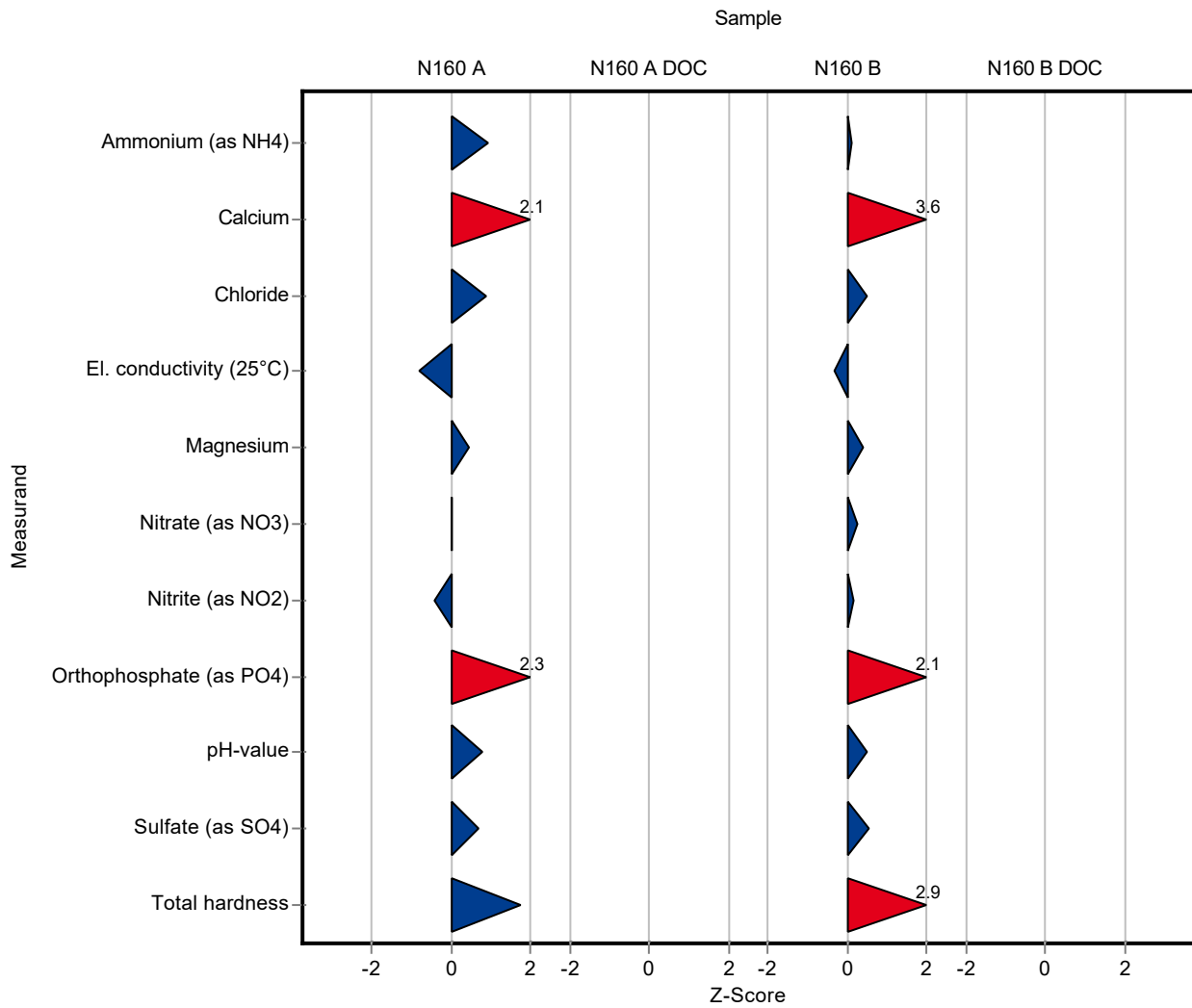
Summary of results Nutrients/Major Ions N160

Labcode: LC0017

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.7 ± 0.59	0.891	102	0.47
El. conductivity (25°C)	µS/cm	474 ± 1.13	472 ± 13	6.16	99.5	-0.35
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.2 ± 1.6	0.598	102	0.42
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.6 ± 0.31	0.672	101	0.24
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.195 ± 0.012	0.0102	101	0.18
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.145 ± 0.016	0.0174	133	2.07
pH-value	-	8.07 ± 0.019	8.15 ± 0.19	0.161	101	0.50
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30 ± 0.99	0.973	102	0.53
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.33 ± 0.12	0.0643	109	2.88
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0881 ± 0.0067	0.00952	111	0.64
Boron	mg/l	0.0747 ± 0.00166	<0.1 (LOQ) ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	152 ± 17	4.42	107	0.28
Chloride	mg/l	72.1 ± 0.47	74.7 ± 1.9	2.89	104	0.67
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1039 ± 29	13.6	99	-0.18
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.9 ± 3.9	1.41	102	0.08
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.8 ± 0.54	1.19	100	0.02
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.282 ± 0.017	0.0153	97.8	-0.19
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0843 ± 0.0094	0.00987	137	1.19
pH-value	-	7.69 ± 0.0265	7.81 ± 0.18	0.154	102	0.34
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.1 ± 1.8	1.78	102	0.34
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	5.27 ± 0.26	0.15	105	0.51
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

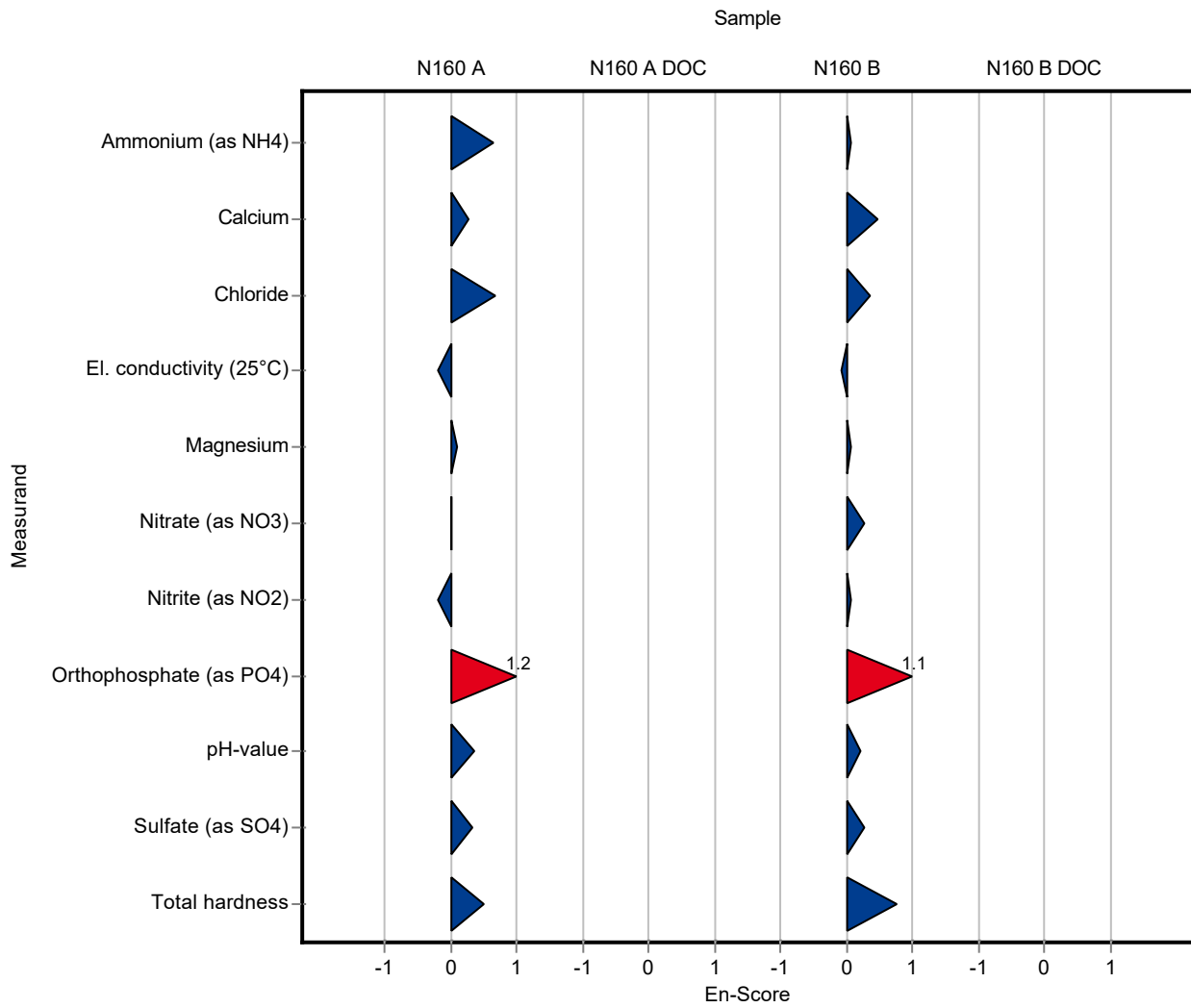
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.288 ± 0.022	0.0341	101	0.08
Boron	mg/l	0.0149 ± 0.000559	<0.1 (LOQ) ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	68.1 ± 7.4	1.9	111	0.46
Chloride	mg/l	22.3 ± 0.157	22.7 ± 0.59	0.891	102	0.35
El. conductivity (25°C)	µS/cm	474 ± 1.13	472 ± 13	6.16	99.5	-0.08
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.2 ± 1.6	0.598	102	0.08
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.6 ± 0.31	0.672	101	0.26
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.195 ± 0.012	0.0102	101	0.08
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.145 ± 0.016	0.0174	133	1.11
pH-value	-	8.07 ± 0.019	8.15 ± 0.19	0.161	101	0.21
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30 ± 0.99	0.973	102	0.26
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.33 ± 0.12	0.0643	109	0.77
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.82 ± 1.84	0.159	98.4	-0.79
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.082 ± 0.013	0.00952	103	0.28
Boron	mg/l	0.0747 ± 0.00166	0.0675 ± 0.0122	0.00822	90.3	-0.88
Calcium	mg/l	143 ± 1.42	141 ± 11	4.42	98.9	-0.36
Chloride	mg/l	72.1 ± 0.47	76.1 ± 6.8	2.89	105	1.37
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1102 ± 110	13.6	105	3.84
Hydrogen carbonate	mg/l	483 ± 1.82	477 ± 60	9.66	98.8	-0.62
Magnesium	mg/l	35.3 ± 0.274	35.8 ± 2.9	1.41	102	0.39
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.4 ± 2.9	1.19	103	0.52
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.286 ± 0.057	0.0153	99.2	-0.16
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.055 ± 0.02	0.00987	89.2	-0.68
pH-value	-	7.69 ± 0.0265	7.57 ± 0.1	0.154	98.5	-0.76
Potassium	mg/l	5.32 ± 0.0504	5.7 ± 0.6	0.277	107	1.36
Sodium	mg/l	31.6 ± 0.245	31.8 ± 2.5	1.07	101	0.17
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	56 ± 5.6	1.78	104	1.20
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.16 ± 0.32	0.0891	97.7	-0.31
Total hardness	mmol/l	5 ± 0.0376	5.01 ± 0.4	0.15	100	0.04
Total nitrogen	mg/l	5.67 ± 0.147	5.66 ± 1.13	0.47	99.9	-0.01

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.11 ± 0.48	0.208	101	0.14

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.49 ± 0.92	0.0704	99.2	-0.40
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.319 ± 0.051	0.0341	112	1.01
Boron	mg/l	0.0149 ± 0.000559	0.0143 ± 0.004	0.00164	96	-0.37
Calcium	mg/l	61.3 ± 0.649	61.1 ± 4.9	1.9	99.7	-0.11

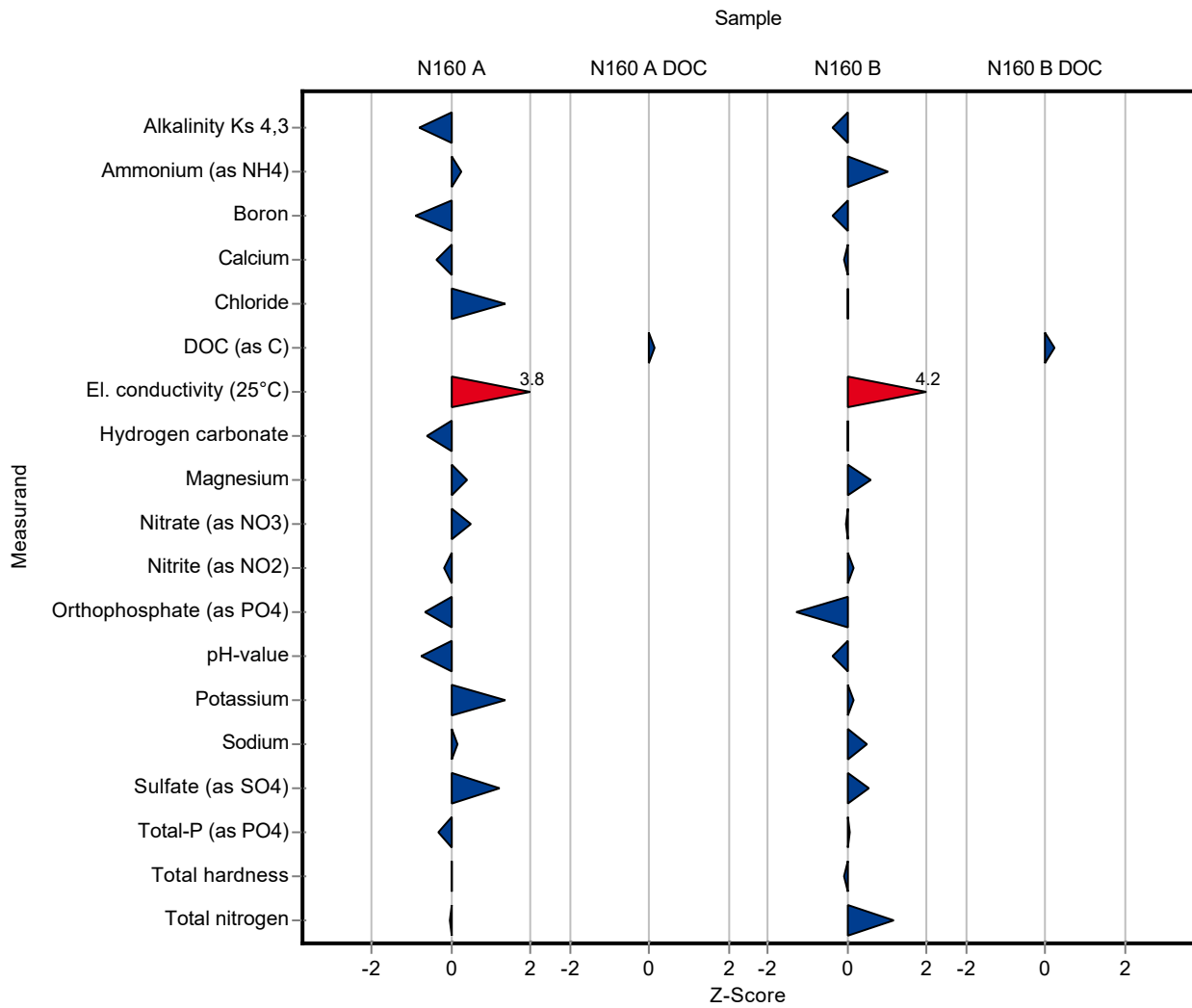
Summary of results Nutrients/Major Ions N160

Labcode: LC0018

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.3 ± 2	0.891	100	0.02
El. conductivity (25°C)	µS/cm	474 ± 1.13	500 ± 50	6.16	105	4.20
Hydrogen carbonate	mg/l	213 ± 1.3	213 ± 30	4.26	100	-0.01
Magnesium	mg/l	14.9 ± 0.135	15.3 ± 1.2	0.598	102	0.58
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.4 ± 1.6	0.672	99.7	-0.06
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.195 ± 0.039	0.0102	101	0.18
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.086 ± 0.031	0.0174	78.9	-1.32
pH-value	-	8.07 ± 0.019	8.01 ± 0.1	0.161	99.3	-0.37
Potassium	mg/l	2.18 ± 0.0235	2.2 ± 0.24	0.113	101	0.17
Sodium	mg/l	14.3 ± 0.118	14.5 ± 1.2	0.485	102	0.49
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30 ± 3	0.973	102	0.53
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.93 ± 0.26	0.0694	100	0.07
Total hardness	mmol/l	2.14 ± 0.0185	2.14 ± 0.17	0.0643	99.8	-0.07
Total nitrogen	mg/l	3.42 ± 0.0995	3.75 ± 0.75	0.284	110	1.17

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.69 ± 0.32	0.263	102	0.24



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.82 ± 1.84	0.159	98.4	-0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.082 ± 0.013	0.00952	103	0.10
Boron	mg/l	0.0747 ± 0.00166	0.0675 ± 0.0122	0.00822	90.3	-0.29
Calcium	mg/l	143 ± 1.42	141 ± 11	4.42	98.9	-0.07
Chloride	mg/l	72.1 ± 0.47	76.1 ± 6.8	2.89	105	0.29
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1102 ± 110	13.6	105	0.24
Hydrogen carbonate	mg/l	483 ± 1.82	477 ± 60	9.66	98.8	-0.05
Magnesium	mg/l	35.3 ± 0.274	35.8 ± 2.9	1.41	102	0.09
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.4 ± 2.9	1.19	103	0.11
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.286 ± 0.057	0.0153	99.2	-0.02
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.055 ± 0.02	0.00987	89.2	-0.17
pH-value	-	7.69 ± 0.0265	7.57 ± 0.1	0.154	98.5	-0.58
Potassium	mg/l	5.32 ± 0.0504	5.7 ± 0.6	0.277	107	0.31
Sodium	mg/l	31.6 ± 0.245	31.8 ± 2.5	1.07	101	0.04
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	56 ± 5.6	1.78	104	0.19
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.16 ± 0.32	0.0891	97.7	-0.04
Total hardness	mmol/l	5 ± 0.0376	5.01 ± 0.4	0.15	100	0.01
Total nitrogen	mg/l	5.67 ± 0.147	5.66 ± 1.13	0.47	99.9	0.00

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.11 ± 0.48	0.208	101	0.03

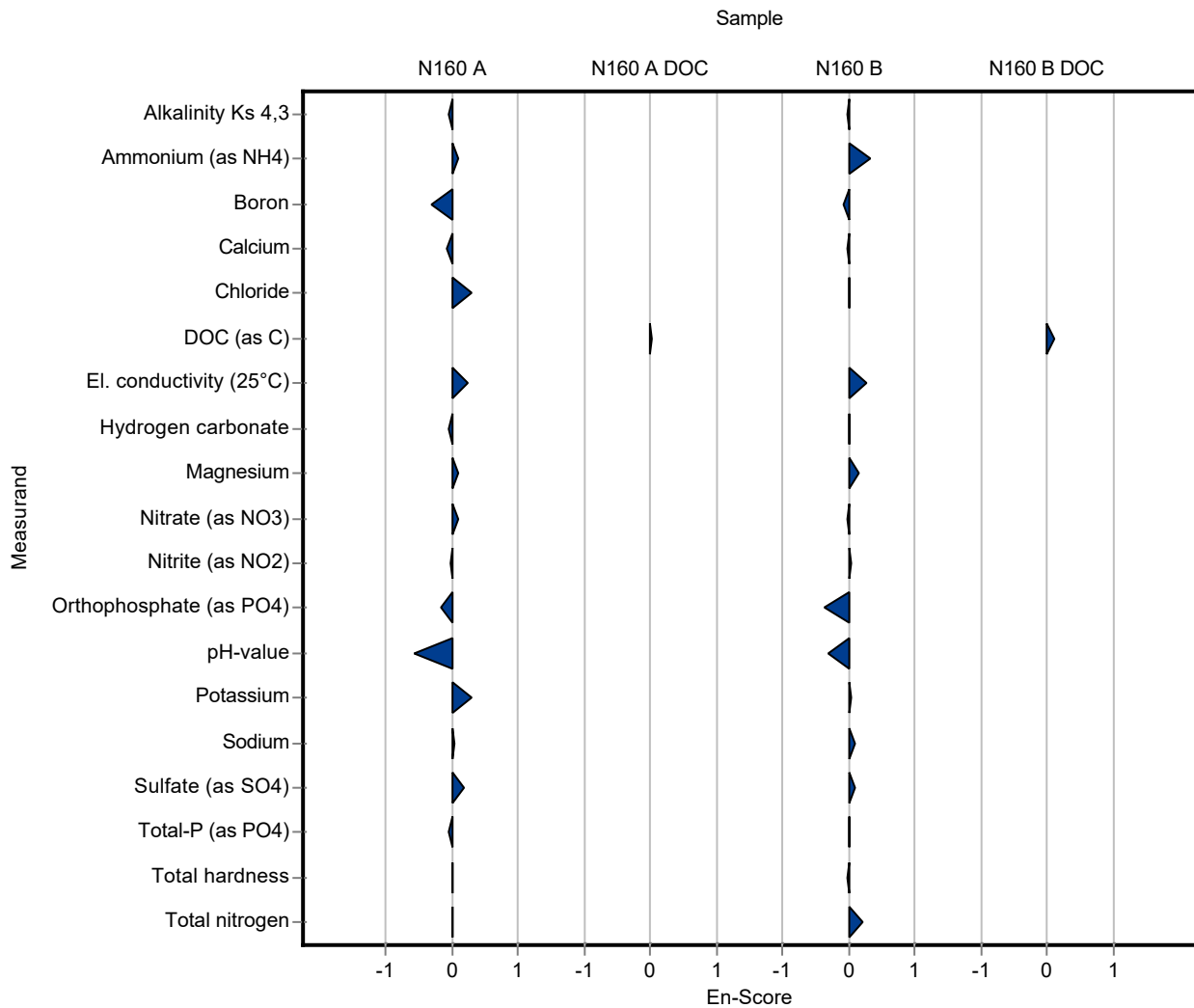
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.49 ± 0.92	0.0704	99.2	-0.02
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.319 ± 0.051	0.0341	112	0.34
Boron	mg/l	0.0149 ± 0.000559	0.0143 ± 0.004	0.00164	96	-0.07

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61.1 ± 4.9	1.9	99.7	-0.02
Chloride	mg/l	22.3 ± 0.157	22.3 ± 2	0.891	100	0.01
El. conductivity (25°C)	µS/cm	474 ± 1.13	500 ± 50	6.16	105	0.26
Hydrogen carbonate	mg/l	213 ± 1.3	213 ± 30	4.26	100	0.00
Magnesium	mg/l	14.9 ± 0.135	15.3 ± 1.2	0.598	102	0.15
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.4 ± 1.6	0.672	99.7	-0.01
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.195 ± 0.039	0.0102	101	0.02
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.086 ± 0.031	0.0174	78.9	-0.37
pH-value	-	8.07 ± 0.019	8.01 ± 0.1	0.161	99.3	-0.30
Potassium	mg/l	2.18 ± 0.0235	2.2 ± 0.24	0.113	101	0.04
Sodium	mg/l	14.3 ± 0.118	14.5 ± 1.2	0.485	102	0.10
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30 ± 3	0.973	102	0.09
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.93 ± 0.26	0.0694	100	0.01
Total hardness	mmol/l	2.14 ± 0.0185	2.14 ± 0.17	0.0643	99.8	-0.01
Total nitrogen	mg/l	3.42 ± 0.0995	3.75 ± 0.75	0.284	110	0.22

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.69 ± 0.32	0.263	102	0.10



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.13 ± 0.1	0.159	102	1.16
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.089 ± 0.015	0.00952	112	1.01
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	138 ± 15	4.42	96.8	-1.03
Chloride	mg/l	72.1 ± 0.47	73.2 ± 12.3	2.89	101	0.36
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1062 ± 33	13.6	101	0.90
Hydrogen carbonate	mg/l	483 ± 1.82	496 ± 50	9.66	103	1.35
Magnesium	mg/l	35.3 ± 0.274	34.8 ± 3.7	1.41	98.7	-0.32
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.29 ± 0.05	0.0153	101	0.10
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.066 ± 0.01	0.00987	107	0.44
pH-value	-	7.69 ± 0.0265	7.69 ± 0.1	0.154	100	0.02
Potassium	mg/l	5.32 ± 0.0504	5.33 ± 0.57	0.277	100	0.02
Sodium	mg/l	31.6 ± 0.245	32.2 ± 3.4	1.07	102	0.55
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.3 ± 7.2	1.78	101	0.25
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.13 ± 0.21	0.0891	95.1	-0.65
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2 ± 0.3	0.208	96.2	-0.38

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.58 ± 0.06	0.0704	102	0.88
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.285 ± 0.043	0.0341	100	0.01
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	59.3 ± 6.3	1.9	96.7	-1.06

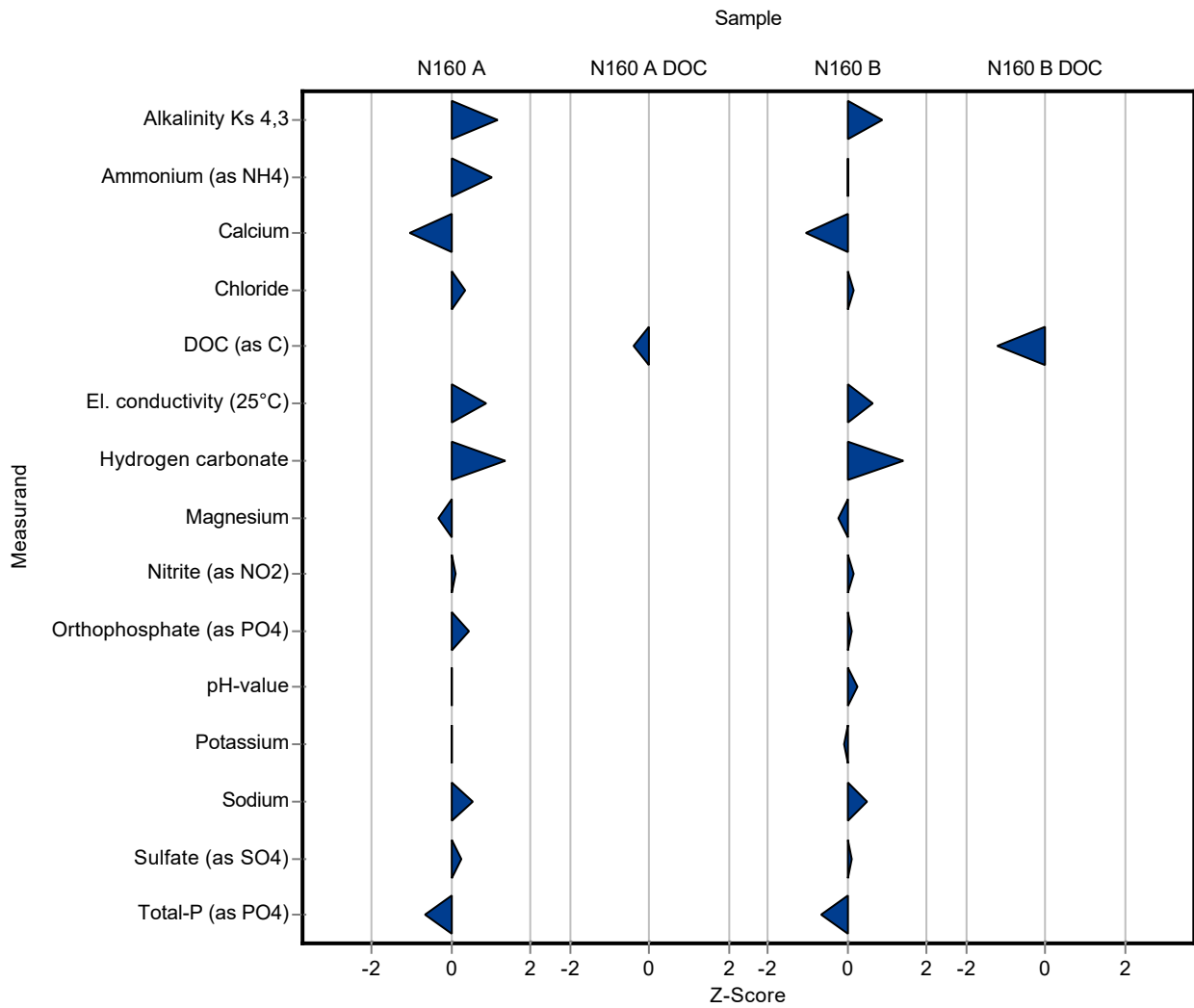
Summary of results Nutrients/Major Ions N160

Labcode: LC0019

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.4 ± 3.9	0.891	101	0.14
El. conductivity (25°C)	µS/cm	474 ± 1.13	478 ± 17	6.16	101	0.63
Hydrogen carbonate	mg/l	213 ± 1.3	219 ± 25	4.26	103	1.40
Magnesium	mg/l	14.9 ± 0.135	14.8 ± 1.6	0.598	99	-0.25
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.195 ± 0.033	0.0102	101	0.18
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.111 ± 0.018	0.0174	102	0.12
pH-value	-	8.07 ± 0.019	8.11 ± 0.1	0.161	100	0.25
Potassium	mg/l	2.18 ± 0.0235	2.17 ± 0.23	0.113	99.5	-0.09
Sodium	mg/l	14.3 ± 0.118	14.5 ± 1.5	0.485	102	0.49
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.6 ± 3.9	0.973	100	0.12
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.879 ± 0.159	0.0694	95	-0.67
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.3 ± 0.3	0.263	87.6	-1.24



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.13 ± 0.1	0.159	102	0.92
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.089 ± 0.015	0.00952	112	0.32
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	138 ± 15	4.42	96.8	-0.15
Chloride	mg/l	72.1 ± 0.47	73.2 ± 12.3	2.89	101	0.04
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1062 ± 33	13.6	101	0.19
Hydrogen carbonate	mg/l	483 ± 1.82	496 ± 50	9.66	103	0.13
Magnesium	mg/l	35.3 ± 0.274	34.8 ± 3.7	1.41	98.7	-0.06
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.29 ± 0.05	0.0153	101	0.02
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.066 ± 0.01	0.00987	107	0.21
pH-value	-	7.69 ± 0.0265	7.69 ± 0.1	0.154	100	0.02
Potassium	mg/l	5.32 ± 0.0504	5.33 ± 0.57	0.277	100	0.01
Sodium	mg/l	31.6 ± 0.245	32.2 ± 3.4	1.07	102	0.09
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.3 ± 7.2	1.78	101	0.03
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.13 ± 0.21	0.0891	95.1	-0.14
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2 ± 0.3	0.208	96.2	-0.13

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.58 ± 0.06	0.0704	102	0.52
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.285 ± 0.043	0.0341	100	0.01
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

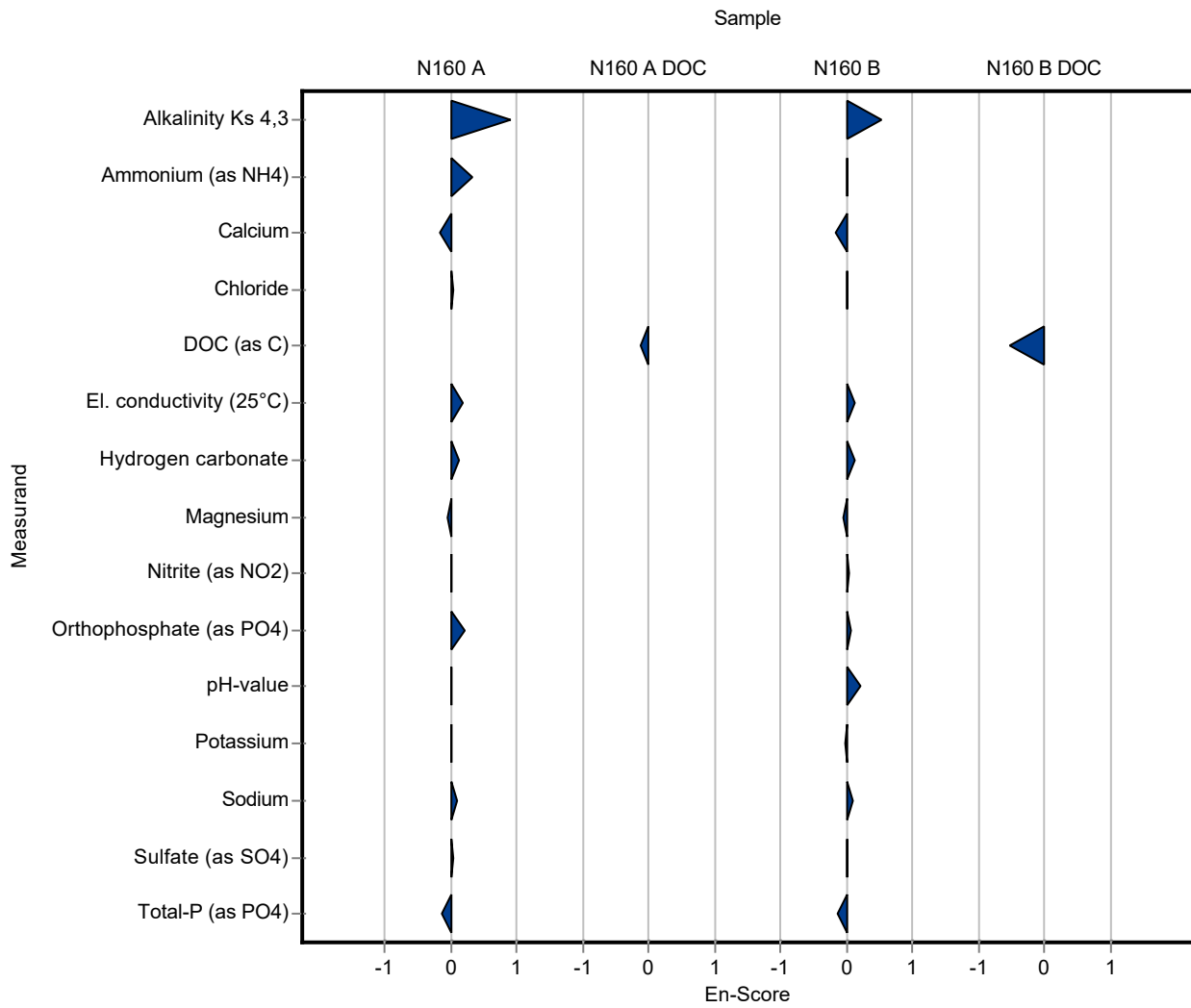
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0019

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	59.3 ± 6.3	1.9	96.7	-0.16
Chloride	mg/l	22.3 ± 0.157	22.4 ± 3.9	0.891	101	0.02
El. conductivity (25°C)	µS/cm	474 ± 1.13	478 ± 17	6.16	101	0.11
Hydrogen carbonate	mg/l	213 ± 1.3	219 ± 25	4.26	103	0.12
Magnesium	mg/l	14.9 ± 0.135	14.8 ± 1.6	0.598	99	-0.05
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.195 ± 0.033	0.0102	101	0.03
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.111 ± 0.018	0.0174	102	0.06
pH-value	-	8.07 ± 0.019	8.11 ± 0.1	0.161	100	0.20
Potassium	mg/l	2.18 ± 0.0235	2.17 ± 0.23	0.113	99.5	-0.02
Sodium	mg/l	14.3 ± 0.118	14.5 ± 1.5	0.485	102	0.08
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.6 ± 3.9	0.973	100	0.01
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.879 ± 0.159	0.0694	95	-0.15
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.3 ± 0.3	0.263	87.6	-0.54



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.95 ± 0.24	0.159	100	0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	0.0757 ± 0.003	0.00822	101	0.12
Calcium	mg/l	143 ± 1.42	148 ± 12	4.42	104	1.23
Chloride	mg/l	72.1 ± 0.47	62.4 ± 4.1	2.89	86.5	-3.38
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1047 ± 34	13.6	99.7	-0.20
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	36.5 ± 2.4	1.41	104	0.88
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.1 ± 1.3	1.19	97.1	-0.57
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.362 ± 0.025	0.0153	126	4.81
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.069 ± 0.004	0.00987	112	0.74
pH-value	-	7.69 ± 0.0265	7.7 ± 0.03	0.154	100	0.09
Potassium	mg/l	5.32 ± 0.0504	5.57 ± 0.6	0.277	105	0.89
Sodium	mg/l	31.6 ± 0.245	33.7 ± 2.5	1.07	107	1.94
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.4 ± 5	1.78	101	0.30
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.17 ± 0.06	0.0891	98.5	-0.20
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	5.61 ± 0.28	0.47	99	-0.12

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.23 ± 0.17	0.208	107	0.72

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.49 ± 0.1	0.0704	99.2	-0.40
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	0.015 ± 0.0005	0.00164	101	0.06
Calcium	mg/l	61.3 ± 0.649	65.5 ± 5.2	1.9	107	2.21

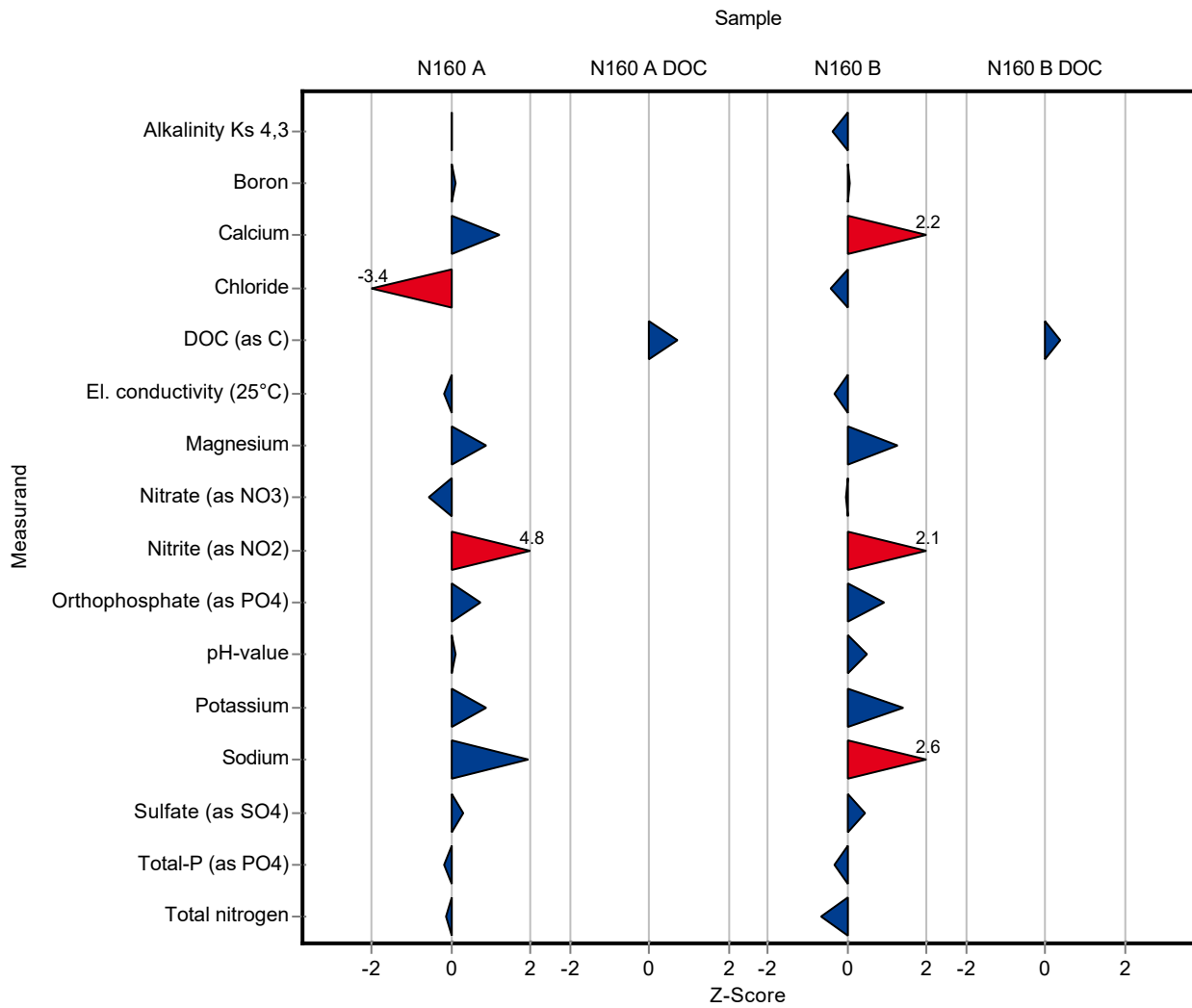
Summary of results Nutrients/Major Ions N160

Labcode: LC0020

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.9 ± 1.5	0.891	98.3	-0.43
El. conductivity (25°C)	µS/cm	474 ± 1.13	472 ± 15	6.16	99.5	-0.35
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.7 ± 1	0.598	105	1.25
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.4 ± 0.76	0.672	99.7	-0.06
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.215 ± 0.015	0.0102	111	2.13
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.125 ± 0.007	0.0174	115	0.92
pH-value	-	8.07 ± 0.019	8.15 ± 0.03	0.161	101	0.50
Potassium	mg/l	2.18 ± 0.0235	2.34 ± 0.26	0.113	107	1.41
Sodium	mg/l	14.3 ± 0.118	15.5 ± 1.2	0.485	109	2.55
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.9 ± 2.8	0.973	101	0.43
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.903 ± 0.05	0.0694	97.6	-0.32
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.23 ± 0.16	0.284	94.5	-0.67

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.73 ± 0.21	0.263	104	0.39



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.95 ± 0.24	0.159	100	0.01
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	0.0757 ± 0.003	0.00822	101	0.16
Calcium	mg/l	143 ± 1.42	148 ± 12	4.42	104	0.23
Chloride	mg/l	72.1 ± 0.47	62.4 ± 4.1	2.89	86.5	-1.19
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1047 ± 34	13.6	99.7	-0.04
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	36.5 ± 2.4	1.41	104	0.26
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.1 ± 1.3	1.19	97.1	-0.26
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.362 ± 0.025	0.0153	126	1.47
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.069 ± 0.004	0.00987	112	0.85
pH-value	-	7.69 ± 0.0265	7.7 ± 0.03	0.154	100	0.21
Potassium	mg/l	5.32 ± 0.0504	5.57 ± 0.6	0.277	105	0.20
Sodium	mg/l	31.6 ± 0.245	33.7 ± 2.5	1.07	107	0.42
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.4 ± 5	1.78	101	0.05
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.17 ± 0.06	0.0891	98.5	-0.15
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	5.61 ± 0.28	0.47	99	-0.10

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.23 ± 0.17	0.208	107	0.43

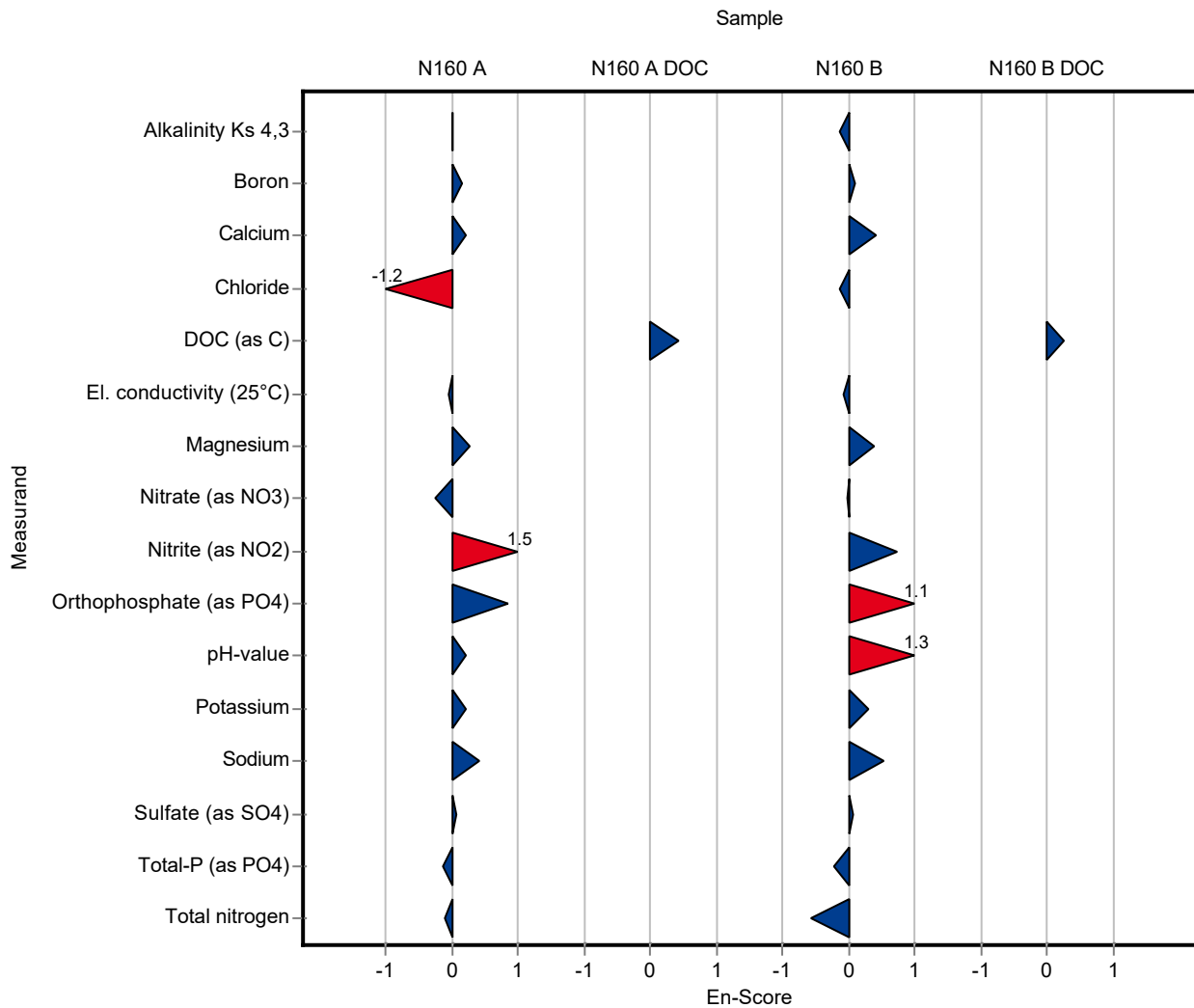
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.49 ± 0.1	0.0704	99.2	-0.14
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	0.015 ± 0.0005	0.00164	101	0.09

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	65.5 ± 5.2	1.9	107	0.40
Chloride	mg/l	22.3 ± 0.157	21.9 ± 1.5	0.891	98.3	-0.13
El. conductivity (25°C)	µS/cm	474 ± 1.13	472 ± 15	6.16	99.5	-0.07
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.7 ± 1	0.598	105	0.37
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.4 ± 0.76	0.672	99.7	-0.02
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.215 ± 0.015	0.0102	111	0.72
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.125 ± 0.007	0.0174	115	1.07
pH-value	-	8.07 ± 0.019	8.15 ± 0.03	0.161	101	1.27
Potassium	mg/l	2.18 ± 0.0235	2.34 ± 0.26	0.113	107	0.31
Sodium	mg/l	14.3 ± 0.118	15.5 ± 1.2	0.485	109	0.52
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.9 ± 2.8	0.973	101	0.07
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.903 ± 0.05	0.0694	97.6	-0.22
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.23 ± 0.16	0.284	94.5	-0.56

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.73 ± 0.21	0.263	104	0.24



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.022 ± 0.802	0.159	101	0.48
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0794 ± 0.0159	0.00952	100	0.01
Boron	mg/l	0.0747 ± 0.00166	0.0741 ± 0.0148	0.00822	99.2	-0.08
Calcium	mg/l	143 ± 1.42	142.371 ± 28.474	4.42	99.9	-0.05
Chloride	mg/l	72.1 ± 0.47	73.335 ± 14.667	2.89	102	0.41
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1012 ± 101	13.6	96.4	-2.76
Hydrogen carbonate	mg/l	483 ± 1.82	486.4 ± 49	9.66	101	0.36
Magnesium	mg/l	35.3 ± 0.274	35.131 ± 7.026	1.41	99.7	-0.09
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	25.193 ± 5.039	1.19	106	1.19
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.333 ± 0.0666	0.0153	115	2.92
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0614 ± 0.0123	0.00987	99.6	-0.03
pH-value	-	7.69 ± 0.0265	7.82 ± 0.78	0.154	102	0.87
Potassium	mg/l	5.32 ± 0.0504	5.224 ± 1.045	0.277	98.1	-0.36
Sodium	mg/l	31.6 ± 0.245	31.887 ± 6.377	1.07	101	0.25
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.18 ± 10.836	1.78	101	0.18
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.388 ± 0.0582	0.0891	32.7	-8.98
Total hardness	mmol/l	5 ± 0.0376	5 ± 1.5	0.15	99.9	-0.03
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.045 ± 0.818	0.208	98.3	-0.17

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.537 ± 0.354	0.0704	101	0.27
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.271 ± 0.054	0.0341	95.2	-0.40
Boron	mg/l	0.0149 ± 0.000559	<0.02 (LOQ) ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	60.836 ± 12.167	1.9	99.2	-0.25

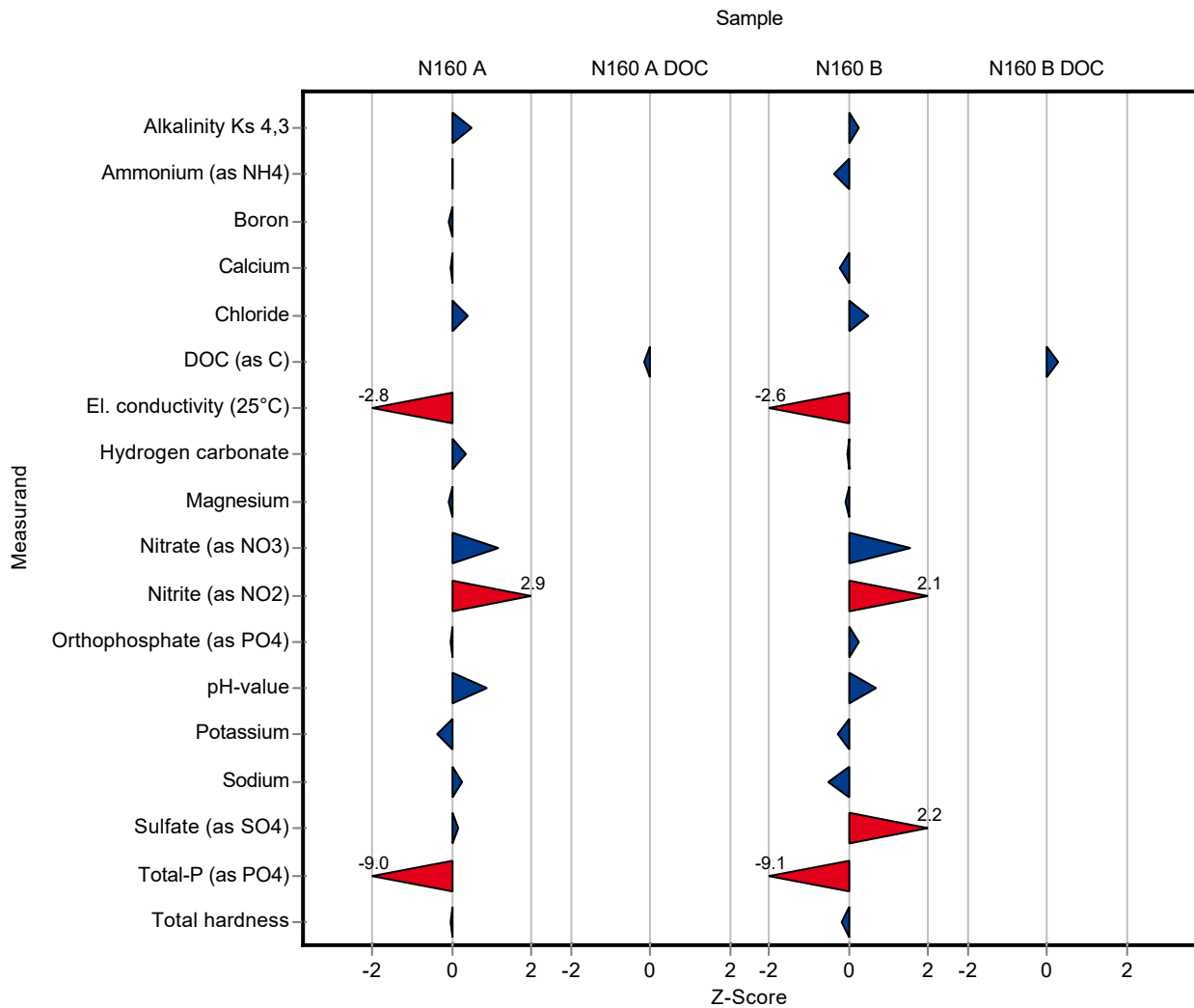
Summary of results Nutrients/Major Ions N160

Labcode: LC0021

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.705 ± 4.541	0.891	102	0.48
El. conductivity (25°C)	µS/cm	474 ± 1.13	458 ± 46	6.16	96.6	-2.62
Hydrogen carbonate	mg/l	213 ± 1.3	212.8 ± 21	4.26	99.9	-0.05
Magnesium	mg/l	14.9 ± 0.135	14.911 ± 2.982	0.598	99.7	-0.07
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	14.485 ± 2.897	0.672	108	1.56
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.215 ± 0.043	0.0102	111	2.13
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.113 ± 0.023	0.0174	104	0.23
pH-value	-	8.07 ± 0.019	8.18 ± 0.82	0.161	101	0.68
Potassium	mg/l	2.18 ± 0.0235	2.149 ± 0.43	0.113	98.6	-0.28
Sodium	mg/l	14.3 ± 0.118	14.0184 ± 2.804	0.485	98.3	-0.50
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	31.583 ± 6.317	0.973	107	2.16
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.295 ± 0.0442	0.0694	31.9	-9.08
Total hardness	mmol/l	2.14 ± 0.0185	2.132 ± 0.64	0.0643	99.4	-0.20
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.697 ± 1.079	0.263	103	0.27



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.022 ± 0.802	0.159	101	0.05
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0794 ± 0.0159	0.00952	100	0.00
Boron	mg/l	0.0747 ± 0.00166	0.0741 ± 0.0148	0.00822	99.2	-0.02
Calcium	mg/l	143 ± 1.42	142.371 ± 28.474	4.42	99.9	0.00
Chloride	mg/l	72.1 ± 0.47	73.335 ± 14.667	2.89	102	0.04
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1012 ± 101	13.6	96.4	-0.19
Hydrogen carbonate	mg/l	483 ± 1.82	486.4 ± 49	9.66	101	0.04
Magnesium	mg/l	35.3 ± 0.274	35.131 ± 7.026	1.41	99.7	-0.01
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	25.193 ± 5.039	1.19	106	0.14
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.333 ± 0.0666	0.0153	115	0.34
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0614 ± 0.0123	0.00987	99.6	-0.01
pH-value	-	7.69 ± 0.0265	7.82 ± 0.78	0.154	102	0.09
Potassium	mg/l	5.32 ± 0.0504	5.224 ± 1.045	0.277	98.1	-0.05
Sodium	mg/l	31.6 ± 0.245	31.887 ± 6.377	1.07	101	0.02
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.18 ± 10.836	1.78	101	0.01
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.388 ± 0.0582	0.0891	32.7	-6.79
Total hardness	mmol/l	5 ± 0.0376	5 ± 1.5	0.15	99.9	0.00
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.045 ± 0.818	0.208	98.3	-0.02

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.537 ± 0.354	0.0704	101	0.03
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.271 ± 0.054	0.0341	95.2	-0.13
Boron	mg/l	0.0149 ± 0.000559	<0.02 (LOQ) ± -	0.00164	-	-

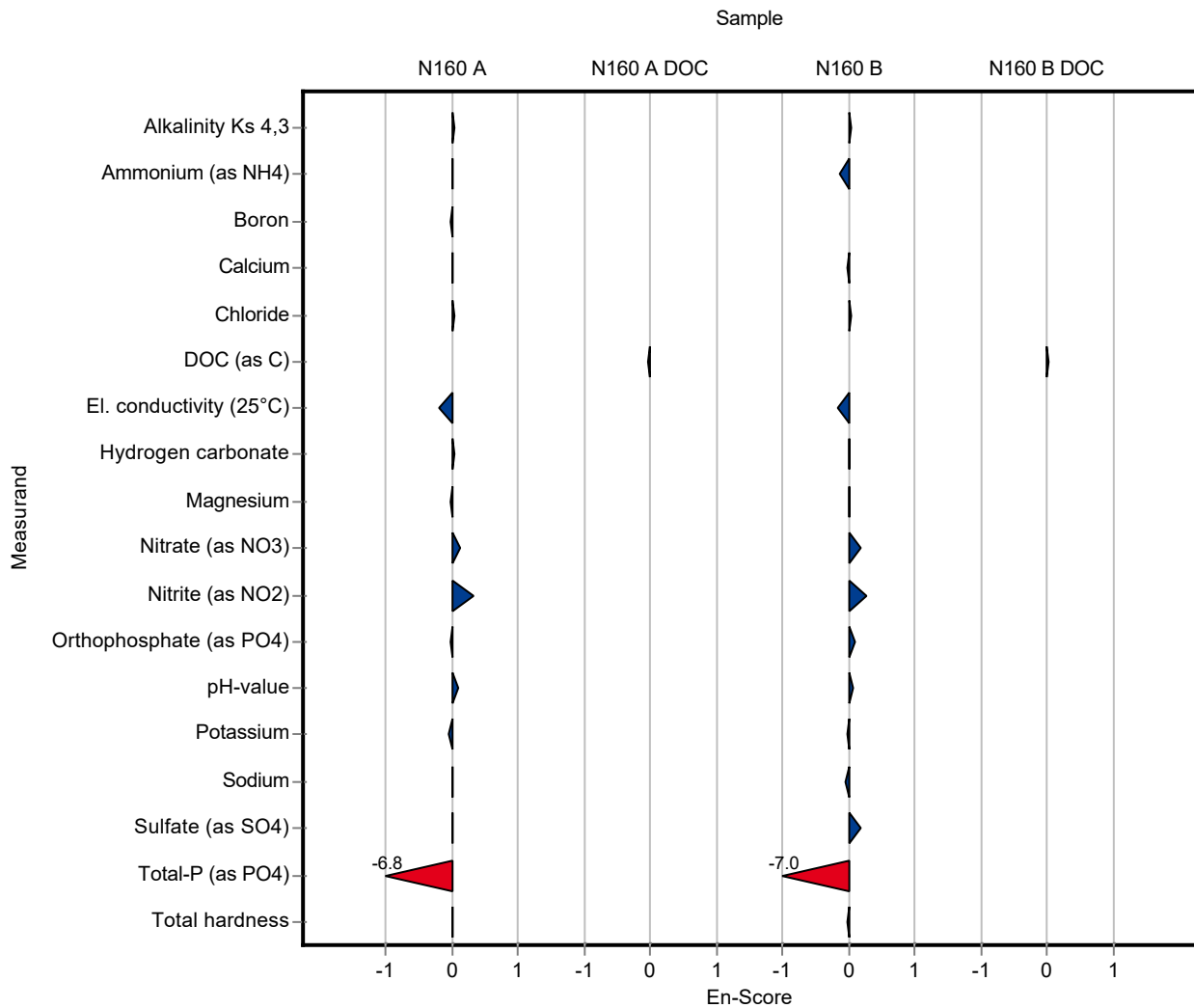
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0021

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	60.836 ± 12.167	1.9	99.2	-0.02
Chloride	mg/l	22.3 ± 0.157	22.705 ± 4.541	0.891	102	0.05
El. conductivity (25°C)	µS/cm	474 ± 1.13	458 ± 46	6.16	96.6	-0.17
Hydrogen carbonate	mg/l	213 ± 1.3	212.8 ± 21	4.26	99.9	-0.01
Magnesium	mg/l	14.9 ± 0.135	14.911 ± 2.982	0.598	99.7	-0.01
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	14.485 ± 2.897	0.672	108	0.18
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.215 ± 0.043	0.0102	111	0.25
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.113 ± 0.023	0.0174	104	0.09
pH-value	-	8.07 ± 0.019	8.18 ± 0.82	0.161	101	0.07
Potassium	mg/l	2.18 ± 0.0235	2.149 ± 0.43	0.113	98.6	-0.04
Sodium	mg/l	14.3 ± 0.118	14.0184 ± 2.804	0.485	98.3	-0.04
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	31.583 ± 6.317	0.973	107	0.17
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.295 ± 0.0442	0.0694	31.9	-7.03
Total hardness	mmol/l	2.14 ± 0.0185	2.132 ± 0.64	0.0643	99.4	-0.01
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.697 ± 1.079	0.263	103	0.03



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8 ± 0.12	0.159	101	0.34
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.081 ± 0.007	0.00952	102	0.17
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1050 ± 11	13.6	100	0.02
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.48 ± 1.12	1.19	94.5	-1.10
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.295 ± 0.009	0.0153	102	0.43
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.072 ± 0.004	0.00987	117	1.05
pH-value	-	7.69 ± 0.0265	7.59 ± 0.019	0.154	98.7	-0.63
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.16 ± 0.064	0.0891	97.7	-0.31
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.08 ± 0.058	0.208	100	0.00

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.55 ± 0.055	0.0704	101	0.46
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.287 ± 0.011	0.0341	101	0.07
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

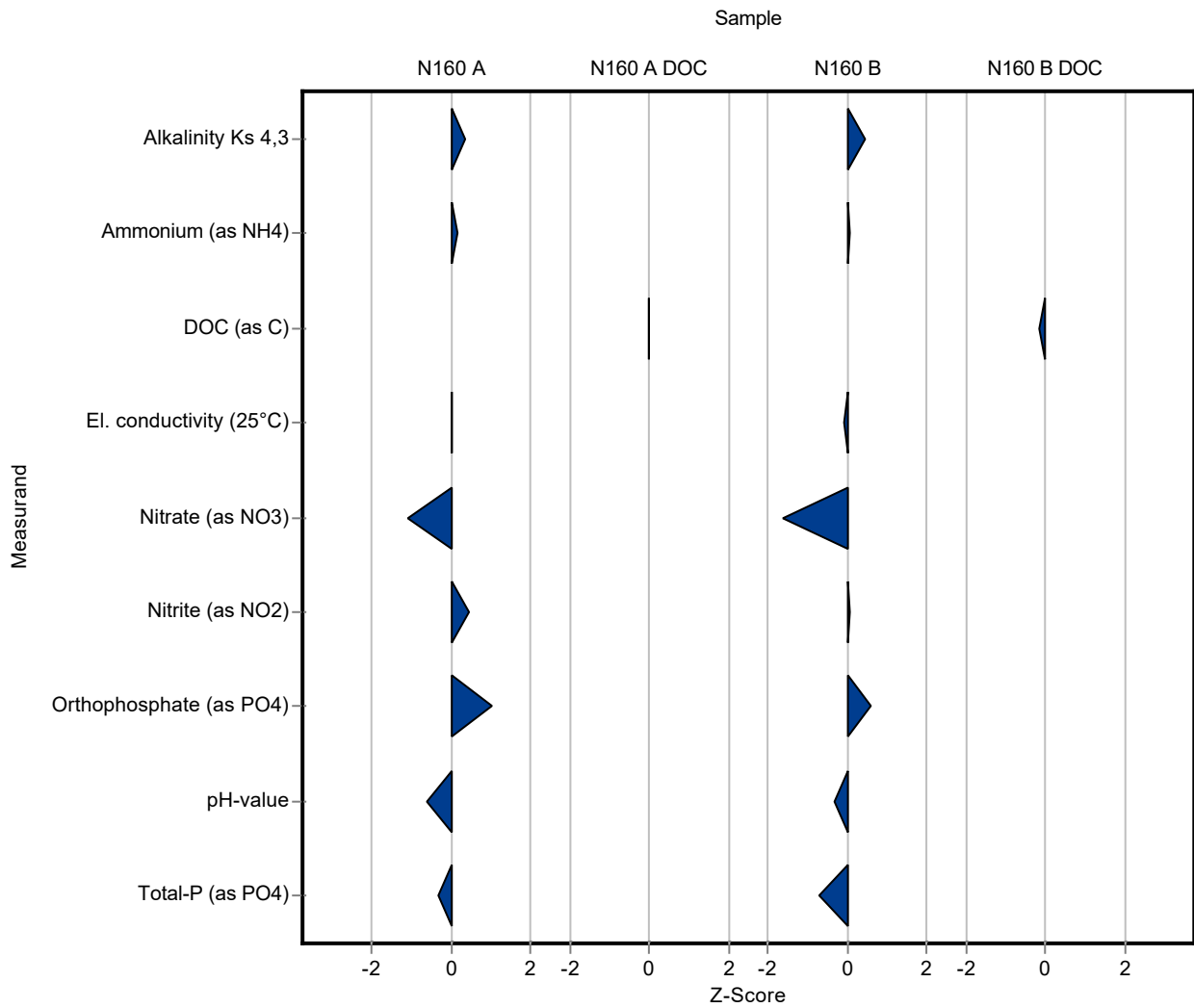
Summary of results Nutrients/Major Ions N160

Labcode: LC0022

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	473.5 ± 4.7	6.16	99.9	-0.10
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.35 ± 0.62	0.672	91.9	-1.62
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.194 ± 0.006	0.0102	100	0.08
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.119 ± 0.003	0.0174	109	0.58
pH-value	-	8.07 ± 0.019	8.02 ± 0.02	0.161	99.4	-0.31
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.875 ± 0.048	0.0694	94.5	-0.73
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.58 ± 0.072	0.263	98.2	-0.18



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8 ± 0.12	0.159	101	0.23
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.081 ± 0.007	0.00952	102	0.12
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1050 ± 11	13.6	100	0.01
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.48 ± 1.12	1.19	94.5	-0.58
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.295 ± 0.009	0.0153	102	0.36
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.072 ± 0.004	0.00987	117	1.20
pH-value	-	7.69 ± 0.0265	7.59 ± 0.019	0.154	98.7	-2.08
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.16 ± 0.064	0.0891	97.7	-0.22
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.08 ± 0.058	0.208	100	0.00

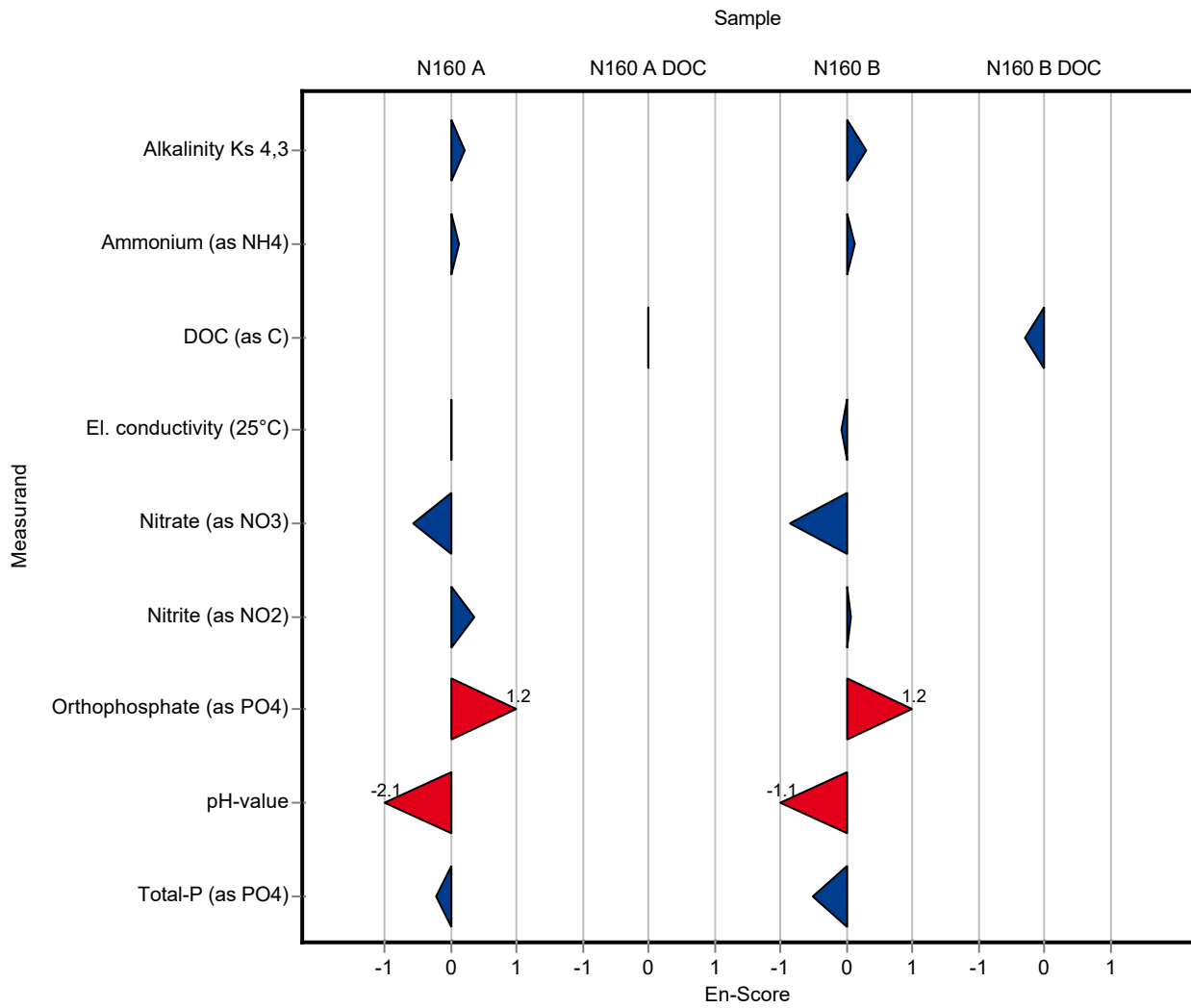
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.55 ± 0.055	0.0704	101	0.29
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.287 ± 0.011	0.0341	101	0.11
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	473.5 ± 4.7	6.16	99.9	-0.07
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.35 ± 0.62	0.672	91.9	-0.87
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.194 ± 0.006	0.0102	100	0.07
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.119 ± 0.003	0.0174	109	1.23
pH-value	-	8.07 ± 0.019	8.02 ± 0.02	0.161	99.4	-1.13
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.875 ± 0.048	0.0694	94.5	-0.52
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.58 ± 0.072	0.263	98.2	-0.30



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8 ± 0.01	0.159	101	0.34
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.066 ± 0.004	0.00952	83.2	-1.40
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	143.7 ± 1.4	4.42	101	0.26
Chloride	mg/l	72.1 ± 0.47	70.98 ± 4.26	2.89	98.4	-0.41
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1060 ± 27	13.6	101	0.76
Hydrogen carbonate	mg/l	483 ± 1.82	486.6 ± 9.7	9.66	101	0.38
Magnesium	mg/l	35.3 ± 0.274	34.4 ± 0.3	1.41	97.6	-0.61
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.42 ± 1.17	1.19	98.5	-0.30
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.276 ± 0.028	0.0153	95.7	-0.81
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.017 ± 0.002	0.00987	27.6	-4.53
pH-value	-	7.69 ± 0.0265	7.73 ± 0.25	0.154	101	0.28
Potassium	mg/l	5.32 ± 0.0504	5.36 ± 0.32	0.277	101	0.13
Sodium	mg/l	31.6 ± 0.245	31.45 ± 0.63	1.07	99.5	-0.15
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.17 ± 1.63	1.78	101	0.17
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.372 ± 0.022	0.0891	31.3	-9.16
Total hardness	mmol/l	5 ± 0.0376	5 ± 0.05	0.15	99.9	-0.03
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.842 ± 0.276	0.208	88.6	-1.14

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.56 ± 0.01	0.0704	101	0.60
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.27 ± 0.016	0.0341	94.9	-0.42
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	61.7 ± 0.6	1.9	101	0.21

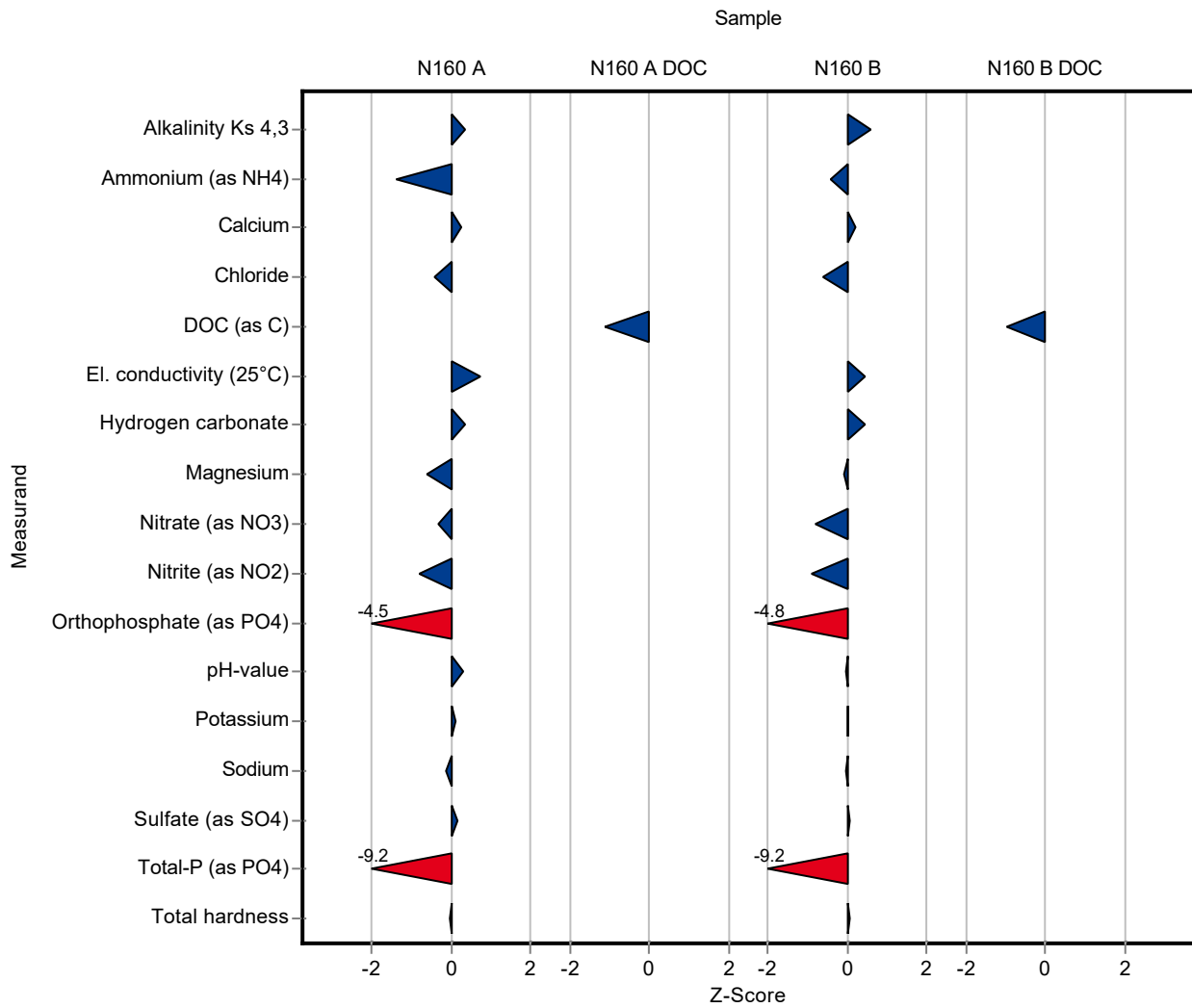
Summary of results Nutrients/Major Ions N160

Labcode: LC0023

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.73 ± 1.3	0.891	97.5	-0.62
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 12	6.16	101	0.47
Hydrogen carbonate	mg/l	213 ± 1.3	215 ± 4.3	4.26	101	0.46
Magnesium	mg/l	14.9 ± 0.135	14.9 ± 0.1	0.598	99.7	-0.08
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.9 ± 0.65	0.672	96	-0.80
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.184 ± 0.018	0.0102	95.3	-0.90
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.026 ± 0.003	0.0174	23.9	-4.76
pH-value	-	8.07 ± 0.019	8.06 ± 0.25	0.161	99.9	-0.06
Potassium	mg/l	2.18 ± 0.0235	2.18 ± 0.13	0.113	100	0.00
Sodium	mg/l	14.3 ± 0.118	14.24 ± 0.28	0.485	99.8	-0.04
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.53 ± 0.89	0.973	100	0.05
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.287 ± 0.017	0.0694	31	-9.20
Total hardness	mmol/l	2.14 ± 0.0185	2.15 ± 0.02	0.0643	100	0.08
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.366 ± 0.355	0.263	90.1	-0.99



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8 ± 0.01	0.159	101	1.66
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.066 ± 0.004	0.00952	83.2	-1.58
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	143.7 ± 1.4	4.42	101	0.36
Chloride	mg/l	72.1 ± 0.47	70.98 ± 4.26	2.89	98.4	-0.14
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1060 ± 27	13.6	101	0.19
Hydrogen carbonate	mg/l	483 ± 1.82	486.6 ± 9.7	9.66	101	0.19
Magnesium	mg/l	35.3 ± 0.274	34.4 ± 0.3	1.41	97.6	-1.29
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.42 ± 1.17	1.19	98.5	-0.15
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.276 ± 0.028	0.0153	95.7	-0.22
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.017 ± 0.002	0.00987	27.6	-8.67
pH-value	-	7.69 ± 0.0265	7.73 ± 0.25	0.154	101	0.09
Potassium	mg/l	5.32 ± 0.0504	5.36 ± 0.32	0.277	101	0.06
Sodium	mg/l	31.6 ± 0.245	31.45 ± 0.63	1.07	99.5	-0.13
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.17 ± 1.63	1.78	101	0.09
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.372 ± 0.022	0.0891	31.3	-17.10
Total hardness	mmol/l	5 ± 0.0376	5 ± 0.05	0.15	99.9	-0.04
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.842 ± 0.276	0.208	88.6	-0.43

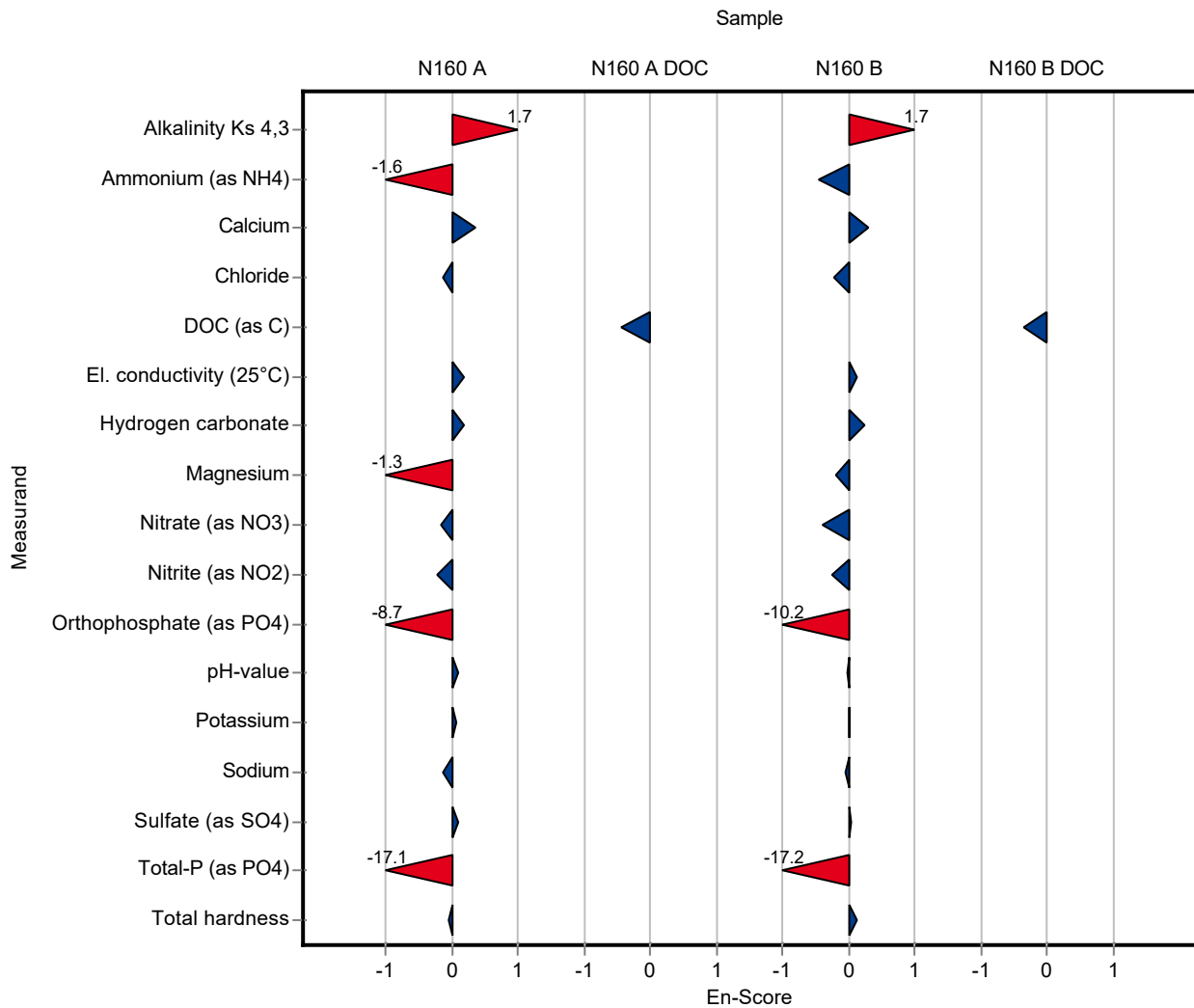
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.56 ± 0.01	0.0704	101	1.73
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.27 ± 0.016	0.0341	94.9	-0.45
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61.7 ± 0.6	1.9	101	0.29
Chloride	mg/l	22.3 ± 0.157	21.73 ± 1.3	0.891	97.5	-0.21
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 12	6.16	101	0.12
Hydrogen carbonate	mg/l	213 ± 1.3	215 ± 4.3	4.26	101	0.23
Magnesium	mg/l	14.9 ± 0.135	14.9 ± 0.1	0.598	99.7	-0.21
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.9 ± 0.65	0.672	96	-0.41
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.184 ± 0.018	0.0102	95.3	-0.25
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.026 ± 0.003	0.0174	23.9	-10.20
pH-value	-	8.07 ± 0.019	8.06 ± 0.25	0.161	99.9	-0.02
Potassium	mg/l	2.18 ± 0.0235	2.18 ± 0.13	0.113	100	0.00
Sodium	mg/l	14.3 ± 0.118	14.24 ± 0.28	0.485	99.8	-0.04
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.53 ± 0.89	0.973	100	0.03
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.287 ± 0.017	0.0694	31	-17.20
Total hardness	mmol/l	2.14 ± 0.0185	2.15 ± 0.02	0.0643	100	0.12
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.366 ± 0.355	0.263	90.1	-0.37



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.97 ± 0.01	0.159	100	0.16
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0962 ± 0.0076	0.00952	121	1.77
Boron	mg/l	0.0747 ± 0.00166	0.0765 ± 0.0062	0.00822	102	0.22
Calcium	mg/l	143 ± 1.42	149.99 ± 3.4	4.42	105	1.68
Chloride	mg/l	72.1 ± 0.47	72.7 ± 2.8	2.89	101	0.19
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1051 ± 8.4	13.6	100	0.10
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	36.9 ± 2.9	1.41	105	1.17
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.11 ± 0.64	1.19	101	0.28
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.335 ± 0.011	0.0153	116	3.05
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0639 ± 0.003	0.00987	104	0.23
pH-value	-	7.69 ± 0.0265	7.73 ± 0.046	0.154	101	0.28
Potassium	mg/l	5.32 ± 0.0504	5.15 ± 0.2	0.277	96.7	-0.63
Sodium	mg/l	31.6 ± 0.245	31.03 ± 0.8	1.07	98.2	-0.54
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.5 ± 2.1	1.78	101	0.36
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.397 ± 0.075	0.0891	118	2.35
Total hardness	mmol/l	5 ± 0.0376	5.25 ± 0.47	0.15	105	1.64
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.891 ± 0.1	0.208	90.9	-0.91

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.044	0.0704	99.5	-0.25
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.285 ± 0.022	0.0341	100	0.01
Boron	mg/l	0.0149 ± 0.000559	0.013 ± 0.0011	0.00164	87.2	-1.16
Calcium	mg/l	61.3 ± 0.649	64.5 ± 1.5	1.9	105	1.68

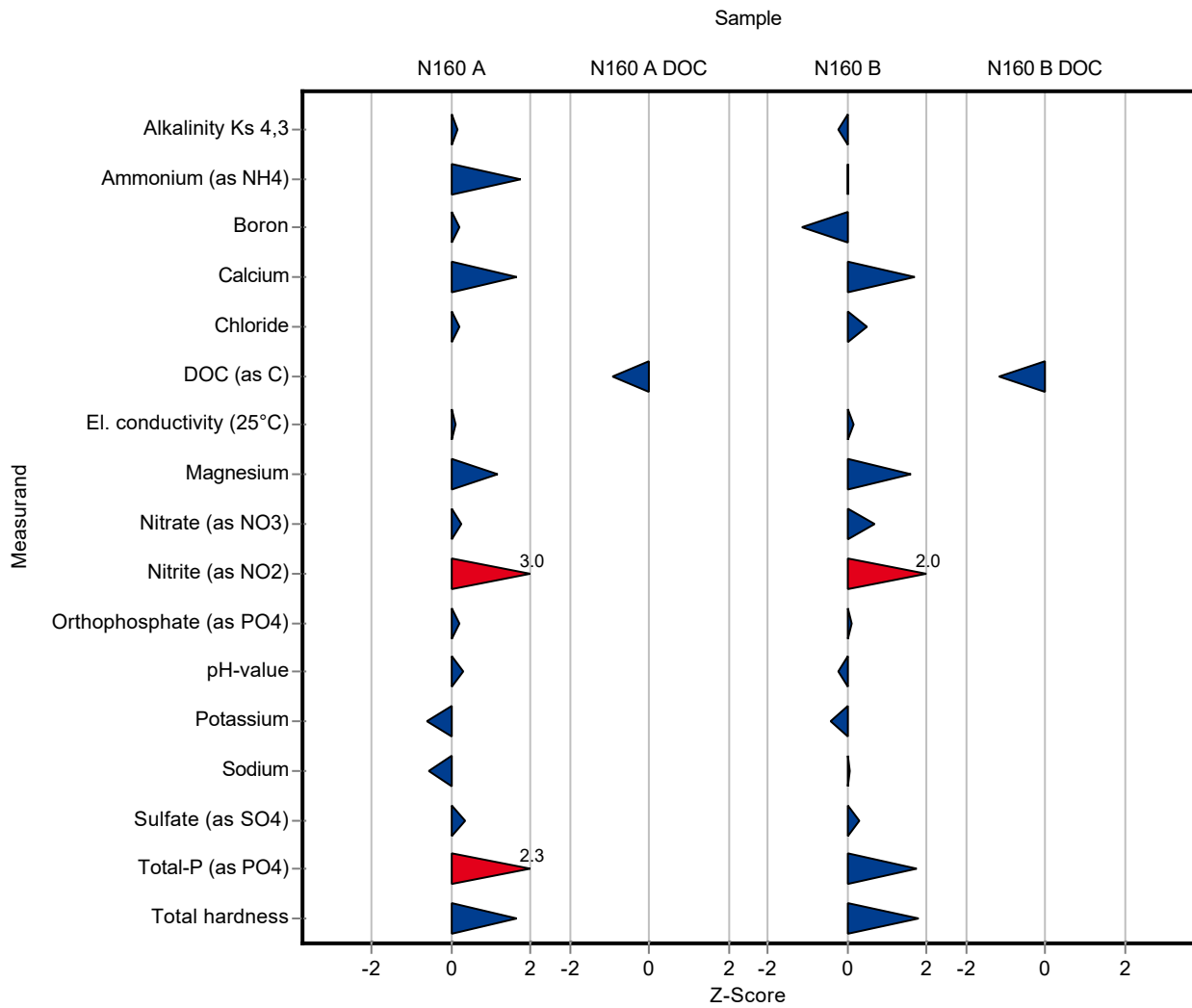
Summary of results Nutrients/Major Ions N160

Labcode: LC0024

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.72 ± 0.87	0.891	102	0.49
El. conductivity (25°C)	µS/cm	474 ± 1.13	475 ± 3.8	6.16	100	0.14
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.9 ± 1.3	0.598	106	1.59
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.9 ± 0.37	0.672	103	0.69
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.214 ± 0.0069	0.0102	111	2.03
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.111 ± 0.0052	0.0174	102	0.12
pH-value	-	8.07 ± 0.019	8.03 ± 0.048	0.161	99.5	-0.25
Potassium	mg/l	2.18 ± 0.0235	2.13 ± 0.084	0.113	97.7	-0.45
Sodium	mg/l	14.3 ± 0.118	14.29 ± 0.37	0.485	100	0.06
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.8 ± 1.2	0.973	101	0.32
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.046 ± 0.056	0.0694	113	1.74
Total hardness	mmol/l	2.14 ± 0.0185	2.26 ± 0.2	0.0643	105	1.79
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.318 ± 0.12	0.263	88.2	-1.18



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.97 ± 0.01	0.159	100	0.75
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0962 ± 0.0076	0.00952	121	1.09
Boron	mg/l	0.0747 ± 0.00166	0.0765 ± 0.0062	0.00822	102	0.14
Calcium	mg/l	143 ± 1.42	149.99 ± 3.4	4.42	105	1.07
Chloride	mg/l	72.1 ± 0.47	72.7 ± 2.8	2.89	101	0.10
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1051 ± 8.4	13.6	100	0.08
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	36.9 ± 2.9	1.41	105	0.28
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.11 ± 0.64	1.19	101	0.25
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.335 ± 0.011	0.0153	116	2.09
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0639 ± 0.003	0.00987	104	0.33
pH-value	-	7.69 ± 0.0265	7.73 ± 0.046	0.154	101	0.46
Potassium	mg/l	5.32 ± 0.0504	5.15 ± 0.2	0.277	96.7	-0.43
Sodium	mg/l	31.6 ± 0.245	31.03 ± 0.8	1.07	98.2	-0.36
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.5 ± 2.1	1.78	101	0.15
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.397 ± 0.075	0.0891	118	1.38
Total hardness	mmol/l	5 ± 0.0376	5.25 ± 0.47	0.15	105	0.26
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.891 ± 0.1	0.208	90.9	-0.91

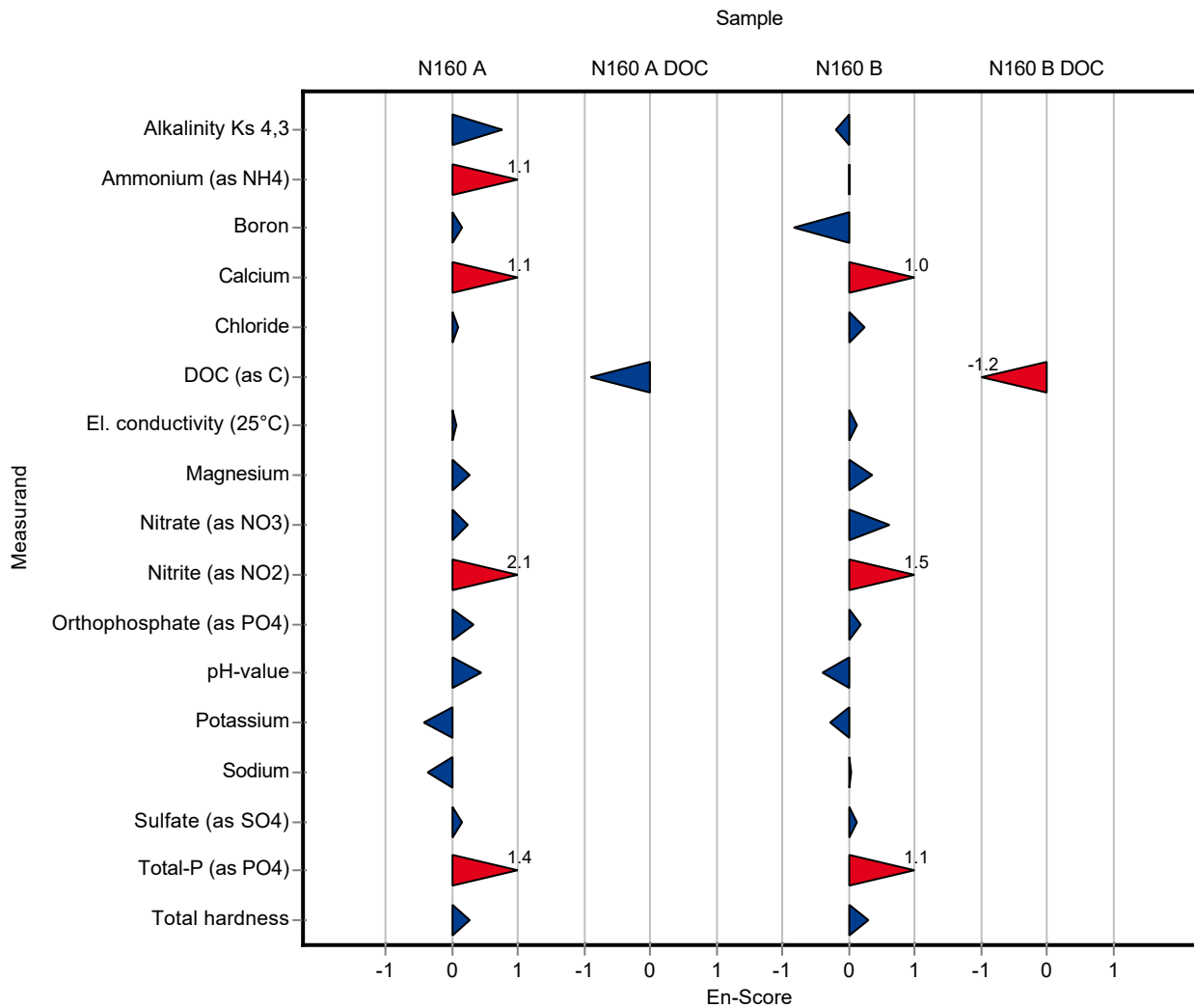
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.044	0.0704	99.5	-0.20
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.285 ± 0.022	0.0341	100	0.01
Boron	mg/l	0.0149 ± 0.000559	0.013 ± 0.0011	0.00164	87.2	-0.84

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	64.5 ± 1.5	1.9	105	1.04
Chloride	mg/l	22.3 ± 0.157	22.72 ± 0.87	0.891	102	0.25
El. conductivity (25°C)	µS/cm	474 ± 1.13	475 ± 3.8	6.16	100	0.11
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.9 ± 1.3	0.598	106	0.36
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.9 ± 0.37	0.672	103	0.61
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.214 ± 0.0069	0.0102	111	1.48
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.111 ± 0.0052	0.0174	102	0.17
pH-value	-	8.07 ± 0.019	8.03 ± 0.048	0.161	99.5	-0.41
Potassium	mg/l	2.18 ± 0.0235	2.13 ± 0.084	0.113	97.7	-0.30
Sodium	mg/l	14.3 ± 0.118	14.29 ± 0.37	0.485	100	0.04
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.8 ± 1.2	0.973	101	0.13
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.046 ± 0.056	0.0694	113	1.07
Total hardness	mmol/l	2.14 ± 0.0185	2.26 ± 0.2	0.0643	105	0.29
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.318 ± 0.12	0.263	88.2	-1.25



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.97 ± 0.39	0.159	100	0.16
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.08 ± 0.008	0.00952	101	0.07
Boron	mg/l	0.0747 ± 0.00166	0.081 ± 0.008	0.00822	108	0.76
Calcium	mg/l	143 ± 1.42	143 ± 8	4.42	100	0.10
Chloride	mg/l	72.1 ± 0.47	72 ± 3.6	2.89	99.8	-0.05
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1055 ± 31	13.6	101	0.39
Hydrogen carbonate	mg/l	483 ± 1.82	483 ± 24	9.66	100	0.01
Magnesium	mg/l	35.3 ± 0.274	35.4 ± 2.2	1.41	100	0.10
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.3 ± 1.4	1.19	98	-0.41
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.299 ± 0.024	0.0153	104	0.69
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.064 ± 0.004	0.00987	104	0.24
pH-value	-	7.69 ± 0.0265	7.73 ± 0.3	0.154	101	0.28
Potassium	mg/l	5.32 ± 0.0504	5.11 ± 0.41	0.277	96	-0.77
Sodium	mg/l	31.6 ± 0.245	31.4 ± 1.5	1.07	99.3	-0.20
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	52.6 ± 3.2	1.78	97.7	-0.71
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.25 ± 0.087	0.0891	105	0.70
Total hardness	mmol/l	5 ± 0.0376	5.03 ± 0.4	0.15	101	0.17
Total nitrogen	mg/l	5.67 ± 0.147	5.62 ± 0.84	0.47	99.2	-0.10

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.97 ± 0.18	0.208	94.7	-0.53

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.18	0.0704	99.5	-0.25
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.278 ± 0.025	0.0341	97.7	-0.19
Boron	mg/l	0.0149 ± 0.000559	0.016 ± 0.0016	0.00164	107	0.67
Calcium	mg/l	61.3 ± 0.649	59 ± 3	1.9	96.2	-1.21

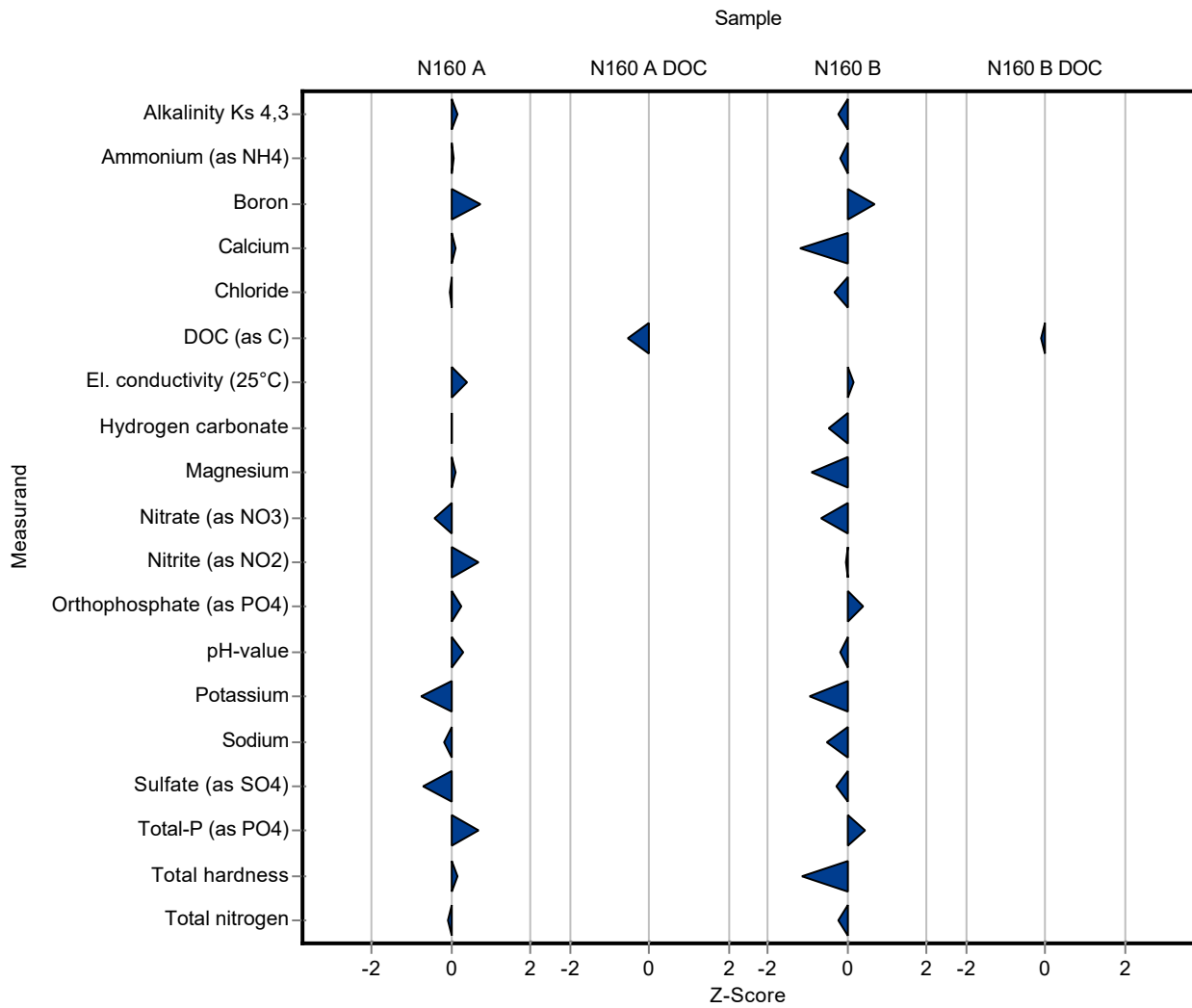
Summary of results Nutrients/Major Ions N160

Labcode: LC0025

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22 ± 1.1	0.891	98.7	-0.31
El. conductivity (25°C)	µS/cm	474 ± 1.13	475 ± 14	6.16	100	0.14
Hydrogen carbonate	mg/l	213 ± 1.3	211 ± 11	4.26	99	-0.48
Magnesium	mg/l	14.9 ± 0.135	14.4 ± 0.9	0.598	96.3	-0.92
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13 ± 0.8	0.672	96.7	-0.65
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.193 ± 0.015	0.0102	99.9	-0.02
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.116 ± 0.006	0.0174	106	0.40
pH-value	-	8.07 ± 0.019	8.04 ± 0.3	0.161	99.6	-0.18
Potassium	mg/l	2.18 ± 0.0235	2.07 ± 0.17	0.113	94.9	-0.97
Sodium	mg/l	14.3 ± 0.118	14 ± 0.7	0.485	98.2	-0.54
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.2 ± 1.7	0.973	99	-0.29
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.957 ± 0.067	0.0694	103	0.45
Total hardness	mmol/l	2.14 ± 0.0185	2.07 ± 0.17	0.0643	96.5	-1.16
Total nitrogen	mg/l	3.42 ± 0.0995	3.35 ± 0.5	0.284	98	-0.24

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.6 ± 0.23	0.263	99	-0.10



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.97 ± 0.39	0.159	100	0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.08 ± 0.008	0.00952	101	0.04
Boron	mg/l	0.0747 ± 0.00166	0.081 ± 0.008	0.00822	108	0.39
Calcium	mg/l	143 ± 1.42	143 ± 8	4.42	100	0.03
Chloride	mg/l	72.1 ± 0.47	72 ± 3.6	2.89	99.8	-0.02
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1055 ± 31	13.6	101	0.09
Hydrogen carbonate	mg/l	483 ± 1.82	483 ± 24	9.66	100	0.00
Magnesium	mg/l	35.3 ± 0.274	35.4 ± 2.2	1.41	100	0.03
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.3 ± 1.4	1.19	98	-0.17
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.299 ± 0.024	0.0153	104	0.22
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.064 ± 0.004	0.00987	104	0.27
pH-value	-	7.69 ± 0.0265	7.73 ± 0.3	0.154	101	0.07
Potassium	mg/l	5.32 ± 0.0504	5.11 ± 0.41	0.277	96	-0.26
Sodium	mg/l	31.6 ± 0.245	31.4 ± 1.5	1.07	99.3	-0.07
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	52.6 ± 3.2	1.78	97.7	-0.20
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.25 ± 0.087	0.0891	105	0.35
Total hardness	mmol/l	5 ± 0.0376	5.03 ± 0.4	0.15	101	0.03
Total nitrogen	mg/l	5.67 ± 0.147	5.62 ± 0.84	0.47	99.2	-0.03

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.97 ± 0.18	0.208	94.7	-0.30

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.18	0.0704	99.5	-0.05
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.278 ± 0.025	0.0341	97.7	-0.13
Boron	mg/l	0.0149 ± 0.000559	0.016 ± 0.0016	0.00164	107	0.34

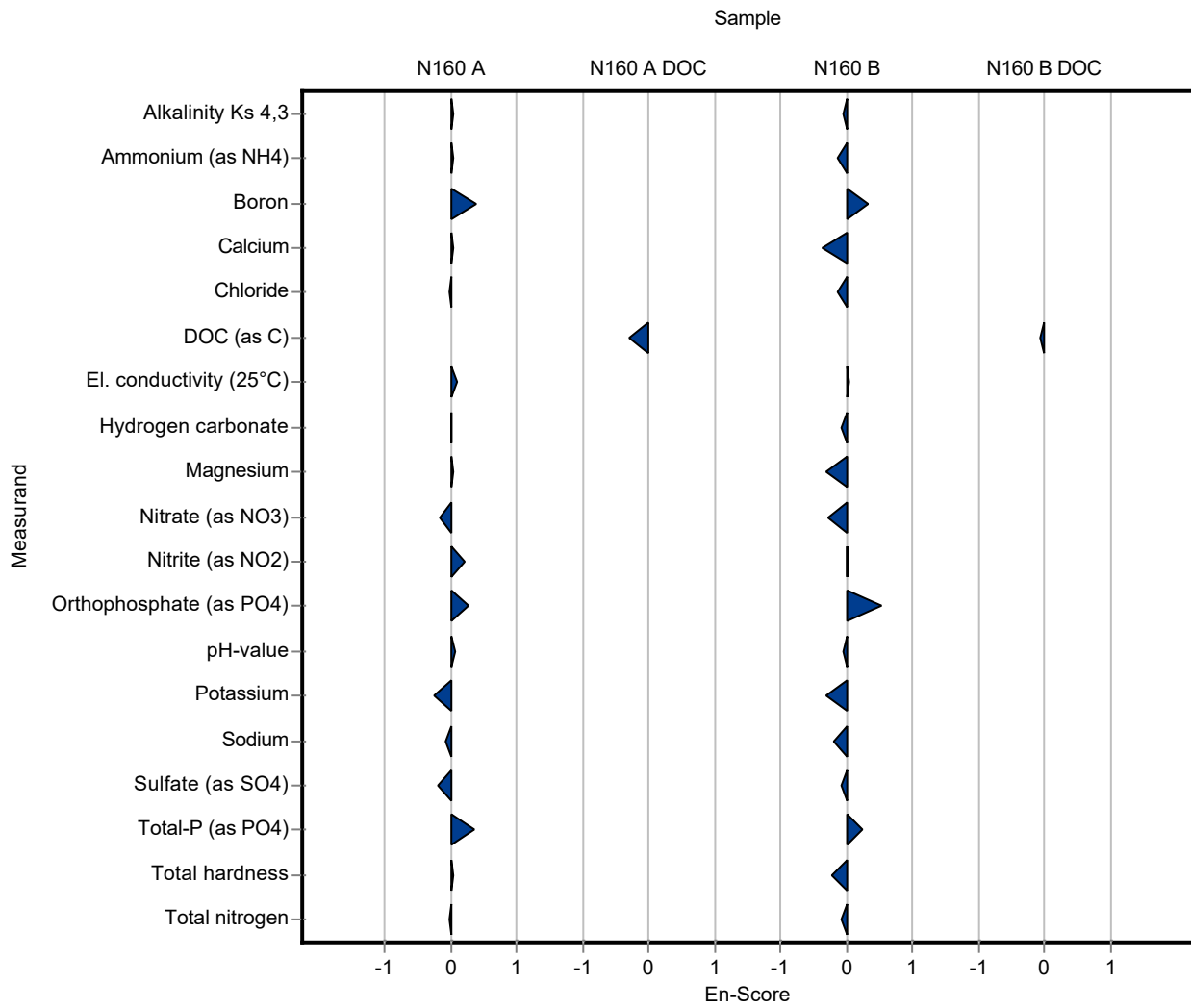
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0025

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	59 ± 3	1.9	96.2	-0.38
Chloride	mg/l	22.3 ± 0.157	22 ± 1.1	0.891	98.7	-0.13
El. conductivity (25°C)	µS/cm	474 ± 1.13	475 ± 14	6.16	100	0.03
Hydrogen carbonate	mg/l	213 ± 1.3	211 ± 11	4.26	99	-0.09
Magnesium	mg/l	14.9 ± 0.135	14.4 ± 0.9	0.598	96.3	-0.30
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13 ± 0.8	0.672	96.7	-0.27
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.193 ± 0.015	0.0102	99.9	-0.01
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.116 ± 0.006	0.0174	106	0.53
pH-value	-	8.07 ± 0.019	8.04 ± 0.3	0.161	99.6	-0.05
Potassium	mg/l	2.18 ± 0.0235	2.07 ± 0.17	0.113	94.9	-0.32
Sodium	mg/l	14.3 ± 0.118	14 ± 0.7	0.485	98.2	-0.19
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.2 ± 1.7	0.973	99	-0.08
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.957 ± 0.067	0.0694	103	0.23
Total hardness	mmol/l	2.14 ± 0.0185	2.07 ± 0.17	0.0643	96.5	-0.22
Total nitrogen	mg/l	3.42 ± 0.0995	3.35 ± 0.5	0.284	98	-0.07

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.6 ± 0.23	0.263	99	-0.06



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.961 ± 0.1	0.159	100	0.10
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0589 ± 0.003	0.00952	74.2	-2.15
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	139.02 ± 1	4.42	97.5	-0.80
Chloride	mg/l	72.1 ± 0.47	71.71 ± 0.2	2.89	99.4	-0.15
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1045 ± 2	13.6	99.6	-0.34
Hydrogen carbonate	mg/l	483 ± 1.82	485.6 ± 6.1	9.66	101	0.28
Magnesium	mg/l	35.3 ± 0.274	34.12 ± 0.2	1.41	96.8	-0.80
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.36 ± 0.4	1.19	98.2	-0.35
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.289 ± 0.002	0.0153	100	0.04
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0546 ± 0.002	0.00987	88.6	-0.71
pH-value	-	7.69 ± 0.0265	7.88 ± 0.05	0.154	103	1.26
Potassium	mg/l	5.32 ± 0.0504	5.57 ± 0.02	0.277	105	0.89
Sodium	mg/l	31.6 ± 0.245	30.59 ± 0.2	1.07	96.8	-0.95
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.83 ± 2	1.78	99.9	-0.02
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.145 ± 0.005	0.0891	96.4	-0.48
Total hardness	mmol/l	5 ± 0.0376	5.03 ± 0.1	0.15	101	0.17
Total nitrogen	mg/l	5.67 ± 0.147	5.287 ± 0.2	0.47	93.3	-0.80

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.042 ± 0.2	0.208	98.2	-0.18

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.532 ± 0.1	0.0704	100	0.20
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.2726 ± 0.003	0.0341	95.8	-0.35
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	59.24 ± 1	1.9	96.6	-1.09

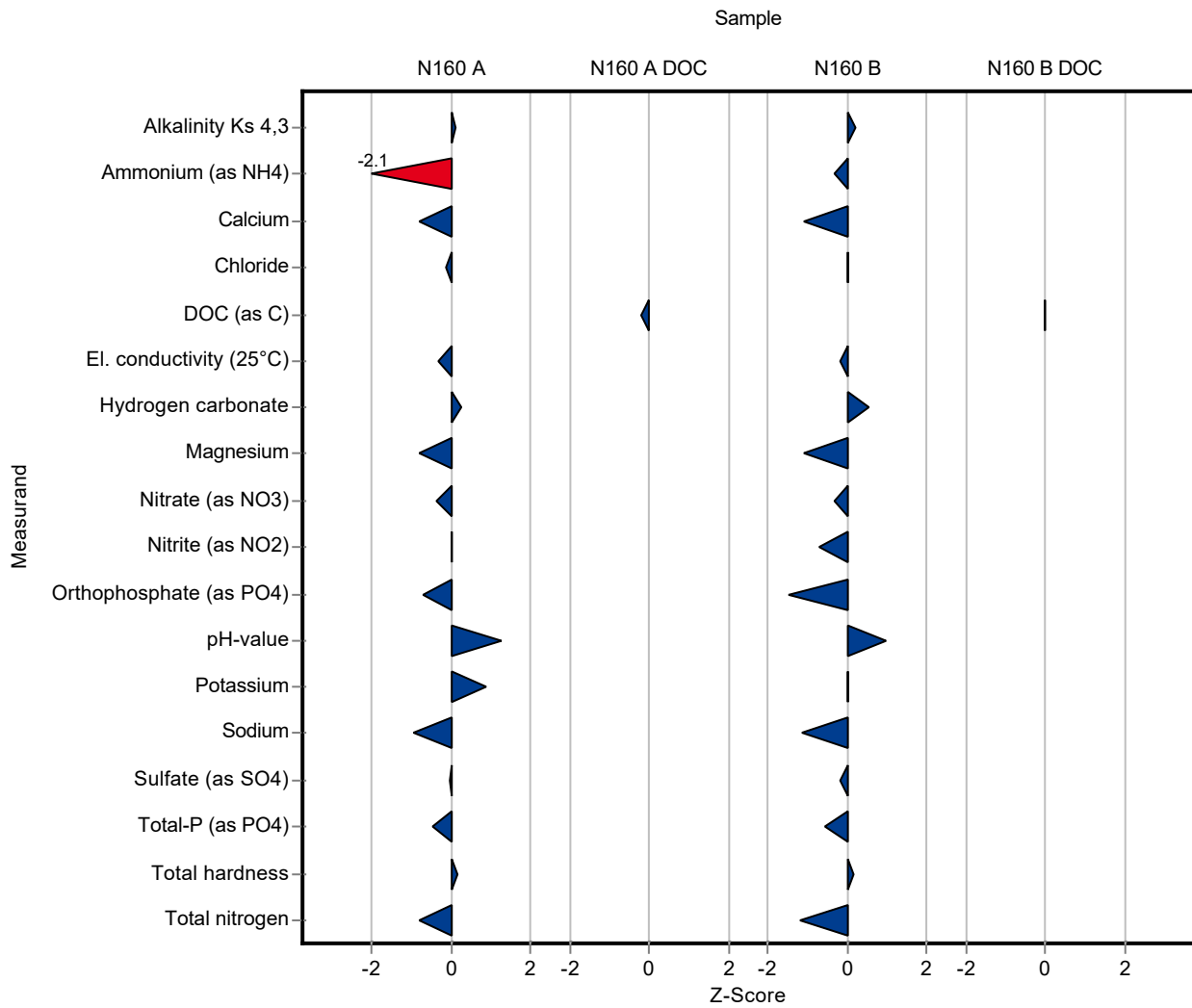
Summary of results Nutrients/Major Ions N160

Labcode: LC0026

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.28 ± 0.2	0.891	100	0.00
El. conductivity (25°C)	µS/cm	474 ± 1.13	473 ± 2	6.16	99.8	-0.18
Hydrogen carbonate	mg/l	213 ± 1.3	215.4 ± 6.1	4.26	101	0.56
Magnesium	mg/l	14.9 ± 0.135	14.28 ± 0.2	0.598	95.5	-1.12
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.23 ± 0.4	0.672	98.5	-0.31
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.1861 ± 0.002	0.0102	96.3	-0.69
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.0829 ± 0.002	0.0174	76.1	-1.49
pH-value	-	8.07 ± 0.019	8.23 ± 0.05	0.161	102	0.99
Potassium	mg/l	2.18 ± 0.0235	2.18 ± 0.02	0.113	100	0.00
Sodium	mg/l	14.3 ± 0.118	13.71 ± 0.2	0.485	96.1	-1.14
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.32 ± 2	0.973	99.4	-0.17
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.887 ± 0.005	0.0694	95.8	-0.55
Total hardness	mmol/l	2.14 ± 0.0185	2.155 ± 0.1	0.0643	100	0.16
Total nitrogen	mg/l	3.42 ± 0.0995	3.074 ± 0.2	0.284	89.9	-1.22

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.626 ± 0.2	0.263	100	0.00



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.961 ± 0.1	0.159	100	0.08
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0589 ± 0.003	0.00952	74.2	-3.11
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	139.02 ± 1	4.42	97.5	-1.45
Chloride	mg/l	72.1 ± 0.47	71.71 ± 0.2	2.89	99.4	-0.71
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1045 ± 2	13.6	99.6	-0.87
Hydrogen carbonate	mg/l	483 ± 1.82	485.6 ± 6.1	9.66	101	0.21
Magnesium	mg/l	35.3 ± 0.274	34.12 ± 0.2	1.41	96.8	-2.34
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.36 ± 0.4	1.19	98.2	-0.51
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.289 ± 0.002	0.0153	100	0.11
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0546 ± 0.002	0.00987	88.6	-1.37
pH-value	-	7.69 ± 0.0265	7.88 ± 0.05	0.154	103	1.87
Potassium	mg/l	5.32 ± 0.0504	5.57 ± 0.02	0.277	105	3.82
Sodium	mg/l	31.6 ± 0.245	30.59 ± 0.2	1.07	96.8	-2.18
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.83 ± 2	1.78	99.9	-0.01
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.145 ± 0.005	0.0891	96.4	-2.05
Total hardness	mmol/l	5 ± 0.0376	5.03 ± 0.1	0.15	101	0.13
Total nitrogen	mg/l	5.67 ± 0.147	5.287 ± 0.2	0.47	93.3	-0.89

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.042 ± 0.2	0.208	98.2	-0.09

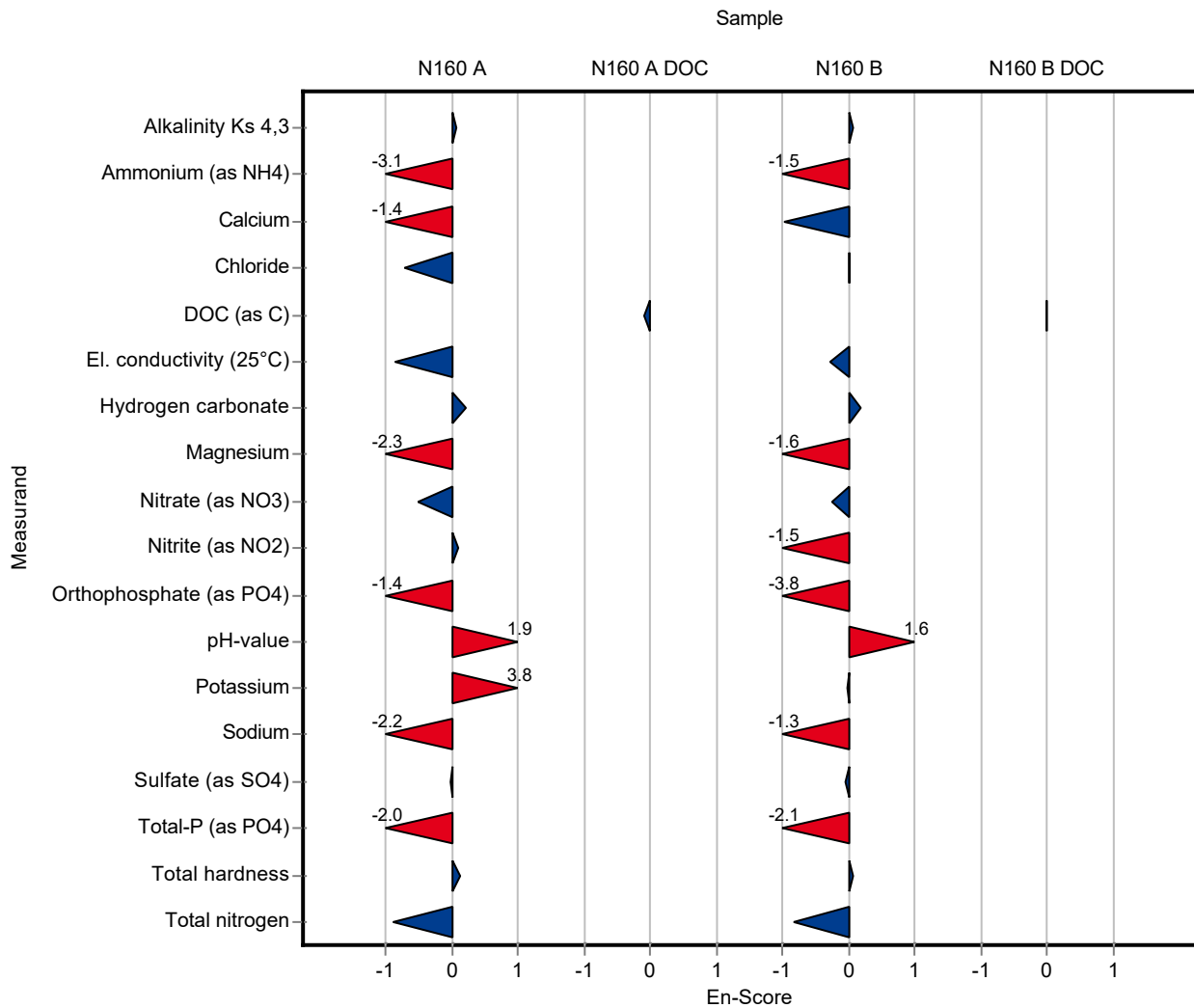
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.532 ± 0.1	0.0704	100	0.07
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.2726 ± 0.003	0.0341	95.8	-1.54
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	59.24 ± 1	1.9	96.6	-0.98
Chloride	mg/l	22.3 ± 0.157	22.28 ± 0.2	0.891	100	0.00
El. conductivity (25°C)	µS/cm	474 ± 1.13	473 ± 2	6.16	99.8	-0.27
Hydrogen carbonate	mg/l	213 ± 1.3	215.4 ± 6.1	4.26	101	0.19
Magnesium	mg/l	14.9 ± 0.135	14.28 ± 0.2	0.598	95.5	-1.59
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.23 ± 0.4	0.672	98.5	-0.26
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.1861 ± 0.002	0.0102	96.3	-1.46
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.0829 ± 0.002	0.0174	76.1	-3.83
pH-value	-	8.07 ± 0.019	8.23 ± 0.05	0.161	102	1.57
Potassium	mg/l	2.18 ± 0.0235	2.18 ± 0.02	0.113	100	-0.01
Sodium	mg/l	14.3 ± 0.118	13.71 ± 0.2	0.485	96.1	-1.32
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.32 ± 2	0.973	99.4	-0.04
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.887 ± 0.005	0.0694	95.8	-2.15
Total hardness	mmol/l	2.14 ± 0.0185	2.155 ± 0.1	0.0643	100	0.05
Total nitrogen	mg/l	3.42 ± 0.0995	3.074 ± 0.2	0.284	89.9	-0.84

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.626 ± 0.2	0.263	100	0.00



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.13 ± 0.29	0.159	89.7	-5.13
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.088 ± 0.004	0.00952	111	0.91
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1056 ± 1.86	13.6	101	0.46
Hydrogen carbonate	mg/l	483 ± 1.82	435 ± 5.4	9.66	90.1	-4.96
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.7 ± 0.45	1.19	104	0.77
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.283 ± 0.005	0.0153	98.1	-0.35
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0505 ± 0.0006	0.00987	81.9	-1.13
pH-value	-	7.69 ± 0.0265	7.7 ± 0.029	0.154	100	0.09
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.169 ± 0.027	0.0891	98.4	-0.21
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.13 ± 0.056	0.208	102	0.24

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.43 ± 0.01	0.0704	97.5	-1.25
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.28 ± 0.01	0.0341	98.4	-0.13
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

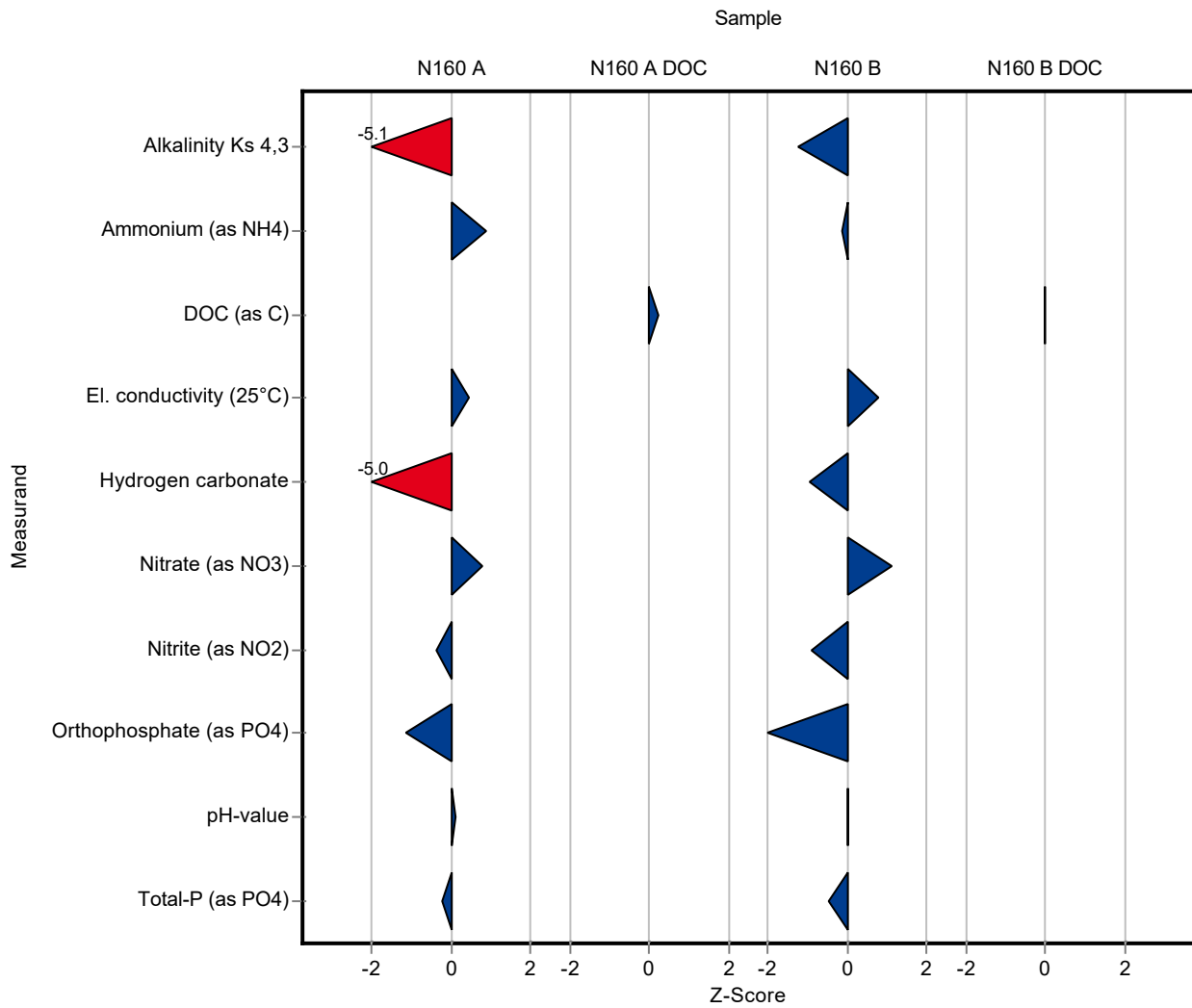
Summary of results Nutrients/Major Ions N160

Labcode: LC0027

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	479 ± 1.35	6.16	101	0.79
Hydrogen carbonate	mg/l	213 ± 1.3	209 ± 0.6	4.26	98.1	-0.95
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	14.2 ± 0.16	0.672	106	1.13
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.184 ± 0.005	0.0102	95.3	-0.90
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.0741 ± 0.0007	0.0174	68	-2.00
pH-value	-	8.07 ± 0.019	8.07 ± 0.02	0.161	100	0.00
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.892 ± 0.014	0.0694	96.4	-0.48
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.62 ± 0.018	0.263	99.7	-0.03



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.13 ± 0.29	0.159	89.7	-1.40
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.088 ± 0.004	0.00952	111	1.03
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1056 ± 1.86	13.6	101	1.22
Hydrogen carbonate	mg/l	483 ± 1.82	435 ± 5.4	9.66	90.1	-4.38
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.7 ± 0.45	1.19	104	0.99
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.283 ± 0.005	0.0153	98.1	-0.51
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0505 ± 0.0006	0.00987	81.9	-3.23
pH-value	-	7.69 ± 0.0265	7.7 ± 0.029	0.154	100	0.22
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.169 ± 0.027	0.0891	98.4	-0.33
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.13 ± 0.056	0.208	102	0.40

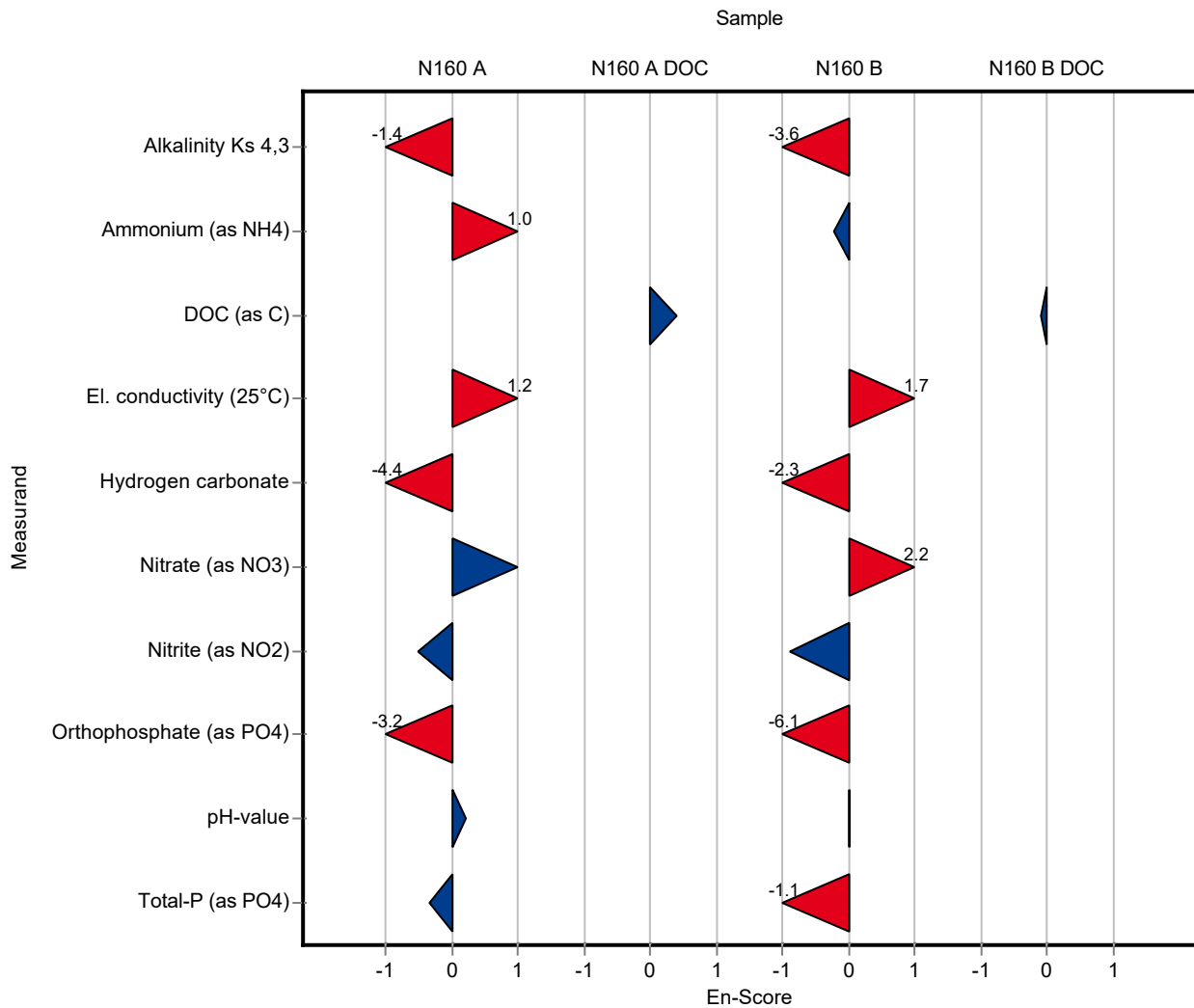
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.43 ± 0.01	0.0704	97.5	-3.59
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.28 ± 0.01	0.0341	98.4	-0.22
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	479 ± 1.35	6.16	101	1.66
Hydrogen carbonate	mg/l	213 ± 1.3	209 ± 0.6	4.26	98.1	-2.28
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	14.2 ± 0.16	0.672	106	2.20
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.184 ± 0.005	0.0102	95.3	-0.88
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.0741 ± 0.0007	0.0174	68	-6.14
pH-value	-	8.07 ± 0.019	8.07 ± 0.02	0.161	100	0.00
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.892 ± 0.014	0.0694	96.4	-1.06
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.62 ± 0.018	0.263	99.7	-0.09



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.01 ± 0.004	0.00952	12.6	-7.28
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	140.85 ± 1.02	4.42	98.8	-0.39
Chloride	mg/l	72.1 ± 0.47	64.31 ± 1	2.89	89.1	-2.72
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1050.5 ± 6.36	13.6	100	0.06
Hydrogen carbonate	mg/l	483 ± 1.82	404.74 ± 7.48	9.66	83.8	-8.10
Magnesium	mg/l	35.3 ± 0.274	34 ± 0.11	1.41	96.4	-0.89
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.73 ± 0.28	1.19	95.6	-0.89
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.33 ± 0.03	0.0153	114	2.72
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	4.55 ± 0.24	0.00987	7380	455.00
pH-value	-	7.69 ± 0.0265	7.88 ± 0.04	0.154	103	1.26
Potassium	mg/l	5.32 ± 0.0504	7.15 ± 1.66	0.277	134	6.60
Sodium	mg/l	31.6 ± 0.245	31.12 ± 0.1	1.07	98.4	-0.46
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	52.21 ± 0.32	1.78	96.9	-0.93
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.15 ± 0.01	0.0891	96.8	-0.42
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.94 ± 0.14	0.208	93.3	-0.67

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.334 ± 0.028	0.0341	117	1.45
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	59.67 ± 0.33	1.9	97.3	-0.86

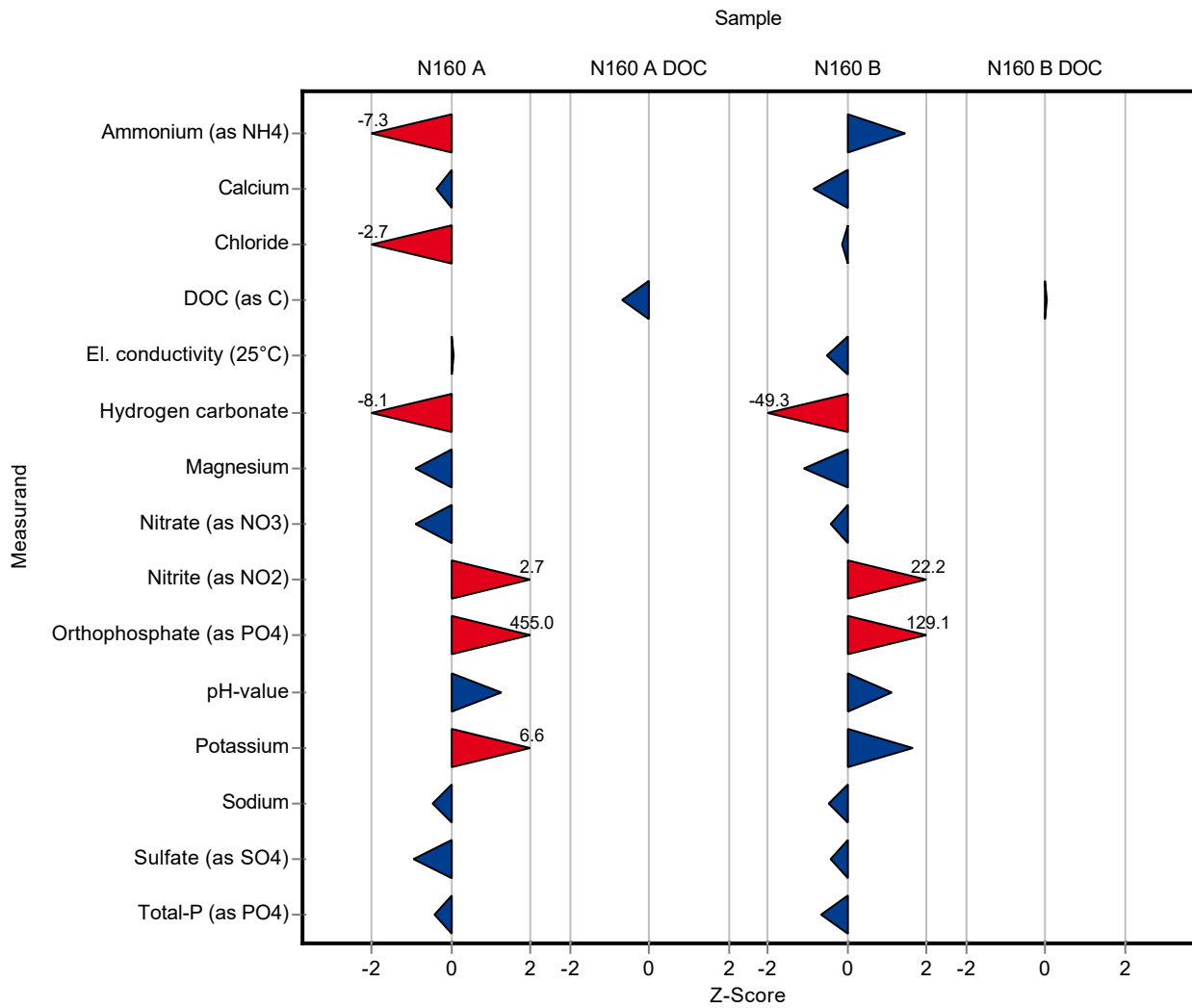
Summary of results Nutrients/Major Ions N160

Labcode: LC0028

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.16 ± 0.11	0.891	99.5	-0.13
El. conductivity (25°C)	µS/cm	474 ± 1.13	471 ± 0.01	6.16	99.3	-0.51
Hydrogen carbonate	mg/l	213 ± 1.3	2.79 ± 0.11	4.26	1.31	-49.30
Magnesium	mg/l	14.9 ± 0.135	14.29 ± 0.19	0.598	95.6	-1.10
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.16 ± 0.09	0.672	97.9	-0.41
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.42 ± 0.01	0.0102	217	22.20
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	2.36 ± 0.06	0.0174	2170	129.00
pH-value	-	8.07 ± 0.019	8.25 ± 0.01	0.161	102	1.12
Potassium	mg/l	2.18 ± 0.0235	2.37 ± 0.1	0.113	109	1.67
Sodium	mg/l	14.3 ± 0.118	14.04 ± 0.1	0.485	98.4	-0.46
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.09 ± 0.15	0.973	98.7	-0.41
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.88 ± 0.01	0.0694	95.1	-0.66
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.63 ± 0.14	0.263	100	0.01



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.01 ± 0.004	0.00952	12.6	-8.22
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	140.85 ± 1.02	4.42	98.8	-0.69
Chloride	mg/l	72.1 ± 0.47	64.31 ± 1	2.89	89.1	-3.81
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1050.5 ± 6.36	13.6	100	0.06
Hydrogen carbonate	mg/l	483 ± 1.82	404.74 ± 7.48	9.66	83.8	-5.19
Magnesium	mg/l	35.3 ± 0.274	34 ± 0.11	1.41	96.4	-3.57
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.73 ± 0.28	1.19	95.6	-1.73
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.33 ± 0.03	0.0153	114	0.69
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	4.55 ± 0.24	0.00987	7380	9.35
pH-value	-	7.69 ± 0.0265	7.88 ± 0.04	0.154	103	2.30
Potassium	mg/l	5.32 ± 0.0504	7.15 ± 1.66	0.277	134	0.55
Sodium	mg/l	31.6 ± 0.245	31.12 ± 0.1	1.07	98.4	-1.56
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	52.21 ± 0.32	1.78	96.9	-2.16
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.15 ± 0.01	0.0891	96.8	-1.39
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.94 ± 0.14	0.208	93.3	-0.49

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.334 ± 0.028	0.0341	117	0.88
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

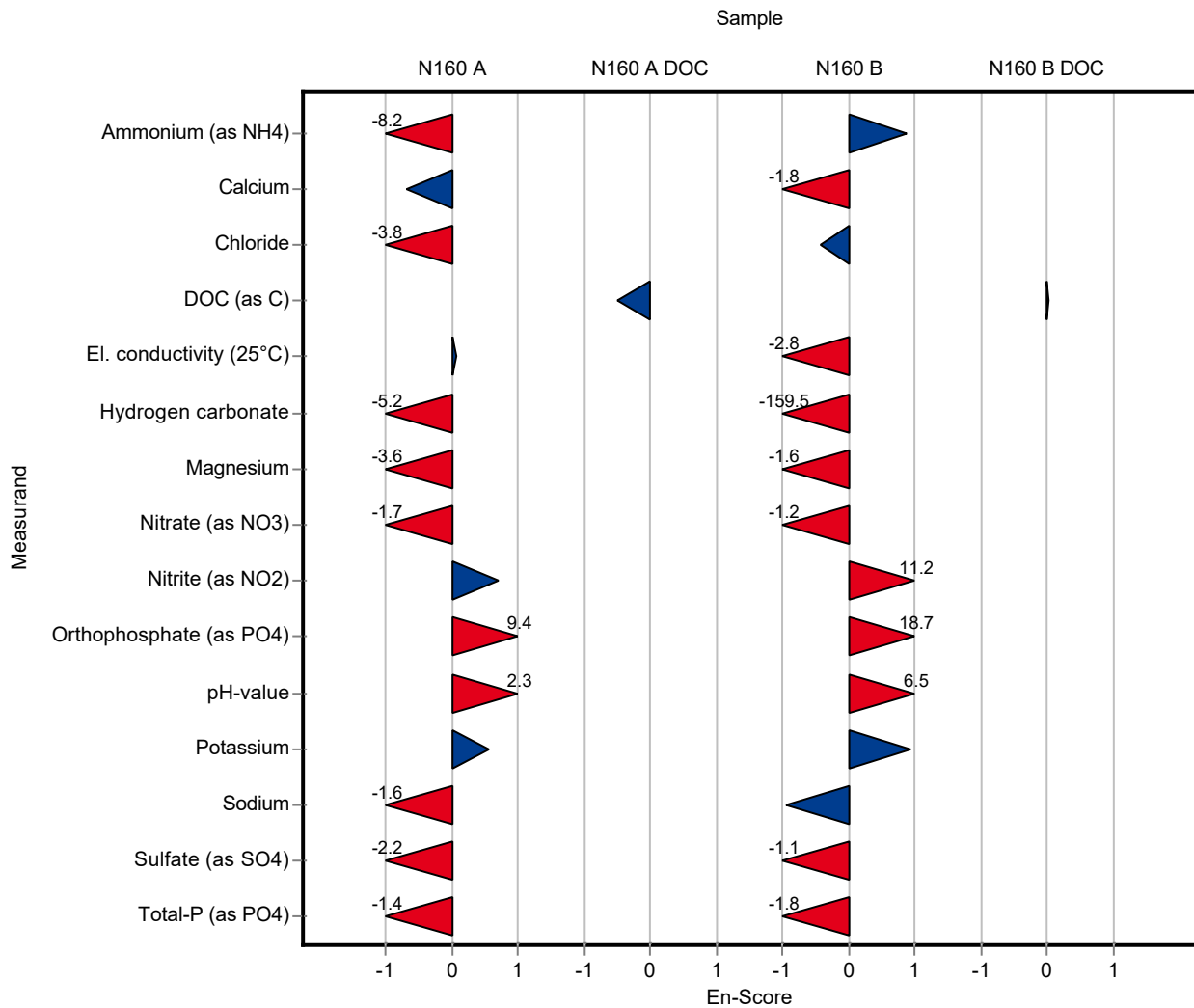
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0028

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	59.67 ± 0.33	1.9	97.3	-1.77
Chloride	mg/l	22.3 ± 0.157	22.16 ± 0.11	0.891	99.5	-0.44
El. conductivity (25°C)	µS/cm	474 ± 1.13	471 ± 0.01	6.16	99.3	-2.77
Hydrogen carbonate	mg/l	213 ± 1.3	2.79 ± 0.11	4.26	1.31	-160.00
Magnesium	mg/l	14.9 ± 0.135	14.29 ± 0.19	0.598	95.6	-1.64
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.16 ± 0.09	0.672	97.9	-1.24
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.42 ± 0.01	0.0102	217	11.20
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	2.36 ± 0.06	0.0174	2170	18.70
pH-value	-	8.07 ± 0.019	8.25 ± 0.01	0.161	102	6.53
Potassium	mg/l	2.18 ± 0.0235	2.37 ± 0.1	0.113	109	0.94
Sodium	mg/l	14.3 ± 0.118	14.04 ± 0.1	0.485	98.4	-0.95
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.09 ± 0.15	0.973	98.7	-1.08
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.88 ± 0.01	0.0694	95.1	-1.82
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.63 ± 0.14	0.263	100	0.01



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	74.451 ± 3.2	2.89	103	0.80
El. conductivity (25°C)	µS/cm	1050 ± 3.6	876 ± 4.12	13.6	83.5	-12.70
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.6 ± 0.02	0.154	98.9	-0.56
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.215 ± 0.001	0.0891	18.1	-10.90
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

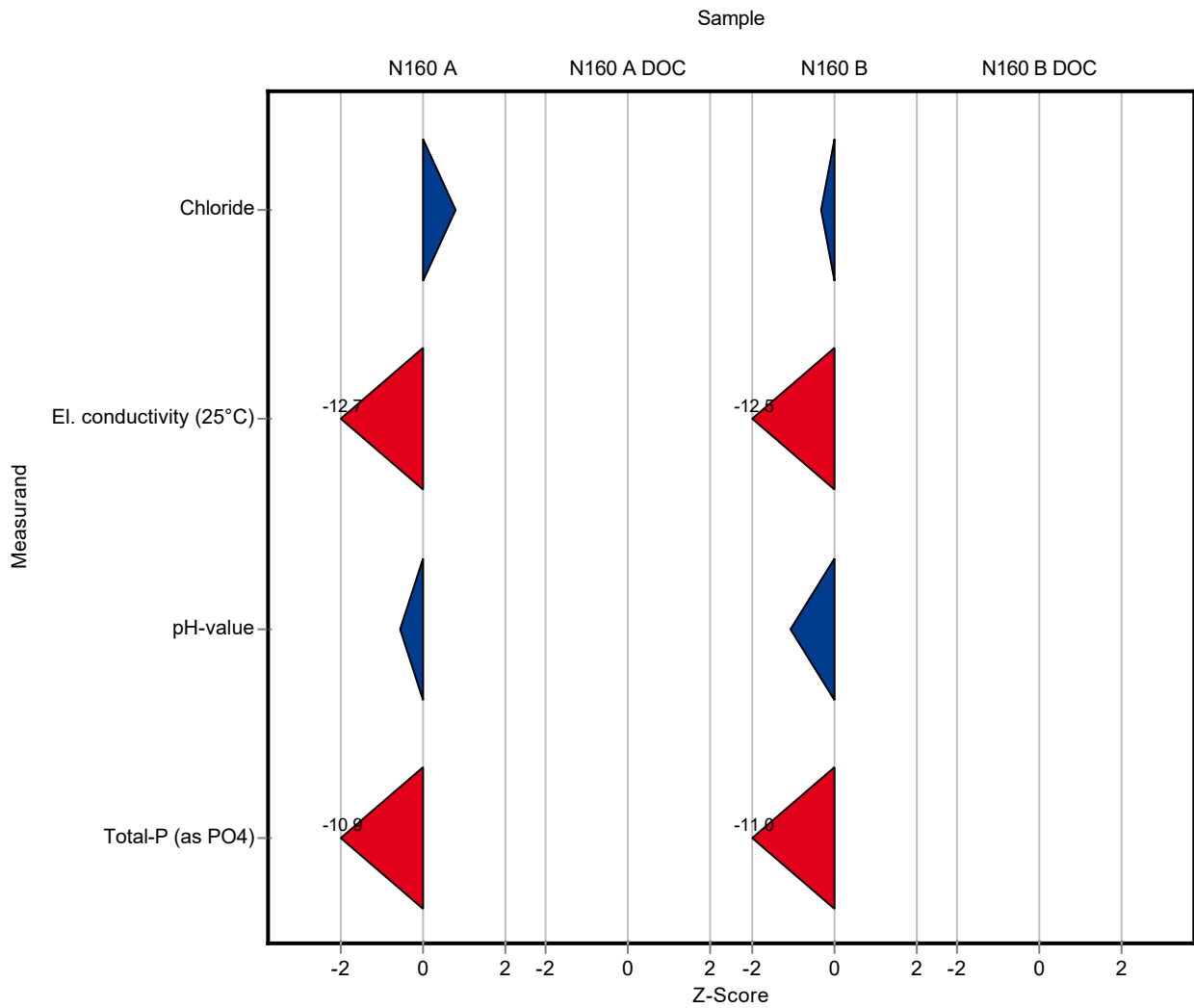
Summary of results Nutrients/Major Ions N160

Labcode: LC0029

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.981 ± 0.95	0.891	98.7	-0.34
El. conductivity (25°C)	µS/cm	474 ± 1.13	397 ± 1.87	6.16	83.7	-12.50
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	7.9 ± 0.02	0.161	97.9	-1.05
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.165 ± 0.0007	0.0694	17.8	-11.00
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	74.451 ± 3.2	2.89	103	0.36
El. conductivity (25°C)	µS/cm	1050 ± 3.6	876 ± 4.12	13.6	83.5	-19.30
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.6 ± 0.02	0.154	98.9	-1.80
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.215 ± 0.001	0.0891	18.1	-52.50
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

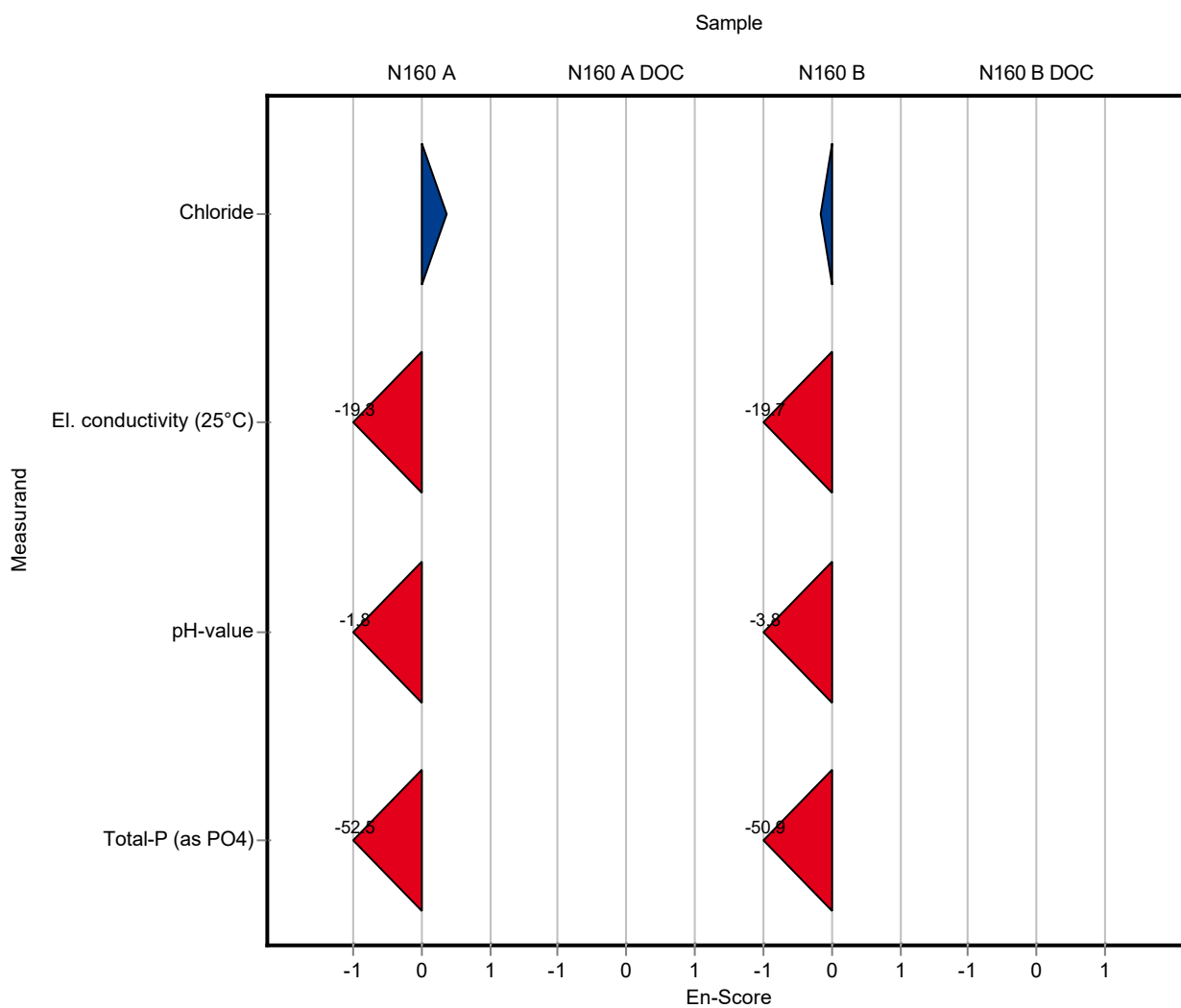
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0029

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	21.981 ± 0.95	0.891	98.7	-0.16
El. conductivity (25°C)	µS/cm	474 ± 1.13	397 ± 1.87	6.16	83.7	-19.70
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	7.9 ± 0.02	0.161	97.9	-3.84
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.165 ± 0.0007	0.0694	17.8	-50.90
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	5.1 ± 0.25	0.159	64.2	-17.90
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0835 ± 0.006	0.00952	105	0.44
Boron	mg/l	0.0747 ± 0.00166	0.0731 ± 0.011	0.00822	97.8	-0.20
Calcium	mg/l	143 ± 1.42	145.5 ± 15	4.42	102	0.66
Chloride	mg/l	72.1 ± 0.47	72.9 ± 0.5	2.89	101	0.26
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1030 ± 50	13.6	98.1	-1.44
Hydrogen carbonate	mg/l	483 ± 1.82	485.7 ± 20	9.66	101	0.28
Magnesium	mg/l	35.3 ± 0.274	35.3 ± 4.5	1.41	100	0.03
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.6 ± 1	1.19	103	0.69
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.284 ± 0.005	0.0153	98.5	-0.29
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.065 ± 0.005	0.00987	105	0.34
pH-value	-	7.69 ± 0.0265	8.01 ± 0.03	0.154	104	2.11
Potassium	mg/l	5.32 ± 0.0504	5.33 ± 0.5	0.277	100	0.02
Sodium	mg/l	31.6 ± 0.245	32.65 ± 4.5	1.07	103	0.96
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.6 ± 0.55	1.78	103	0.98
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.128 ± 0.01	0.0891	95	-0.67
Total hardness	mmol/l	5 ± 0.0376	5.1 ± 0.75	0.15	102	0.64
Total nitrogen	mg/l	5.67 ± 0.147	5.25 ± 0.52	0.47	92.7	-0.88

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.34 ± 0.25	0.208	113	1.25

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	2.2 ± 0.11	0.0704	62.5	-18.70
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.27 ± 0.007	0.0341	94.9	-0.42
Boron	mg/l	0.0149 ± 0.000559	0.0122 ± 0.0015	0.00164	81.9	-1.65
Calcium	mg/l	61.3 ± 0.649	62.85 ± 9	1.9	103	0.81

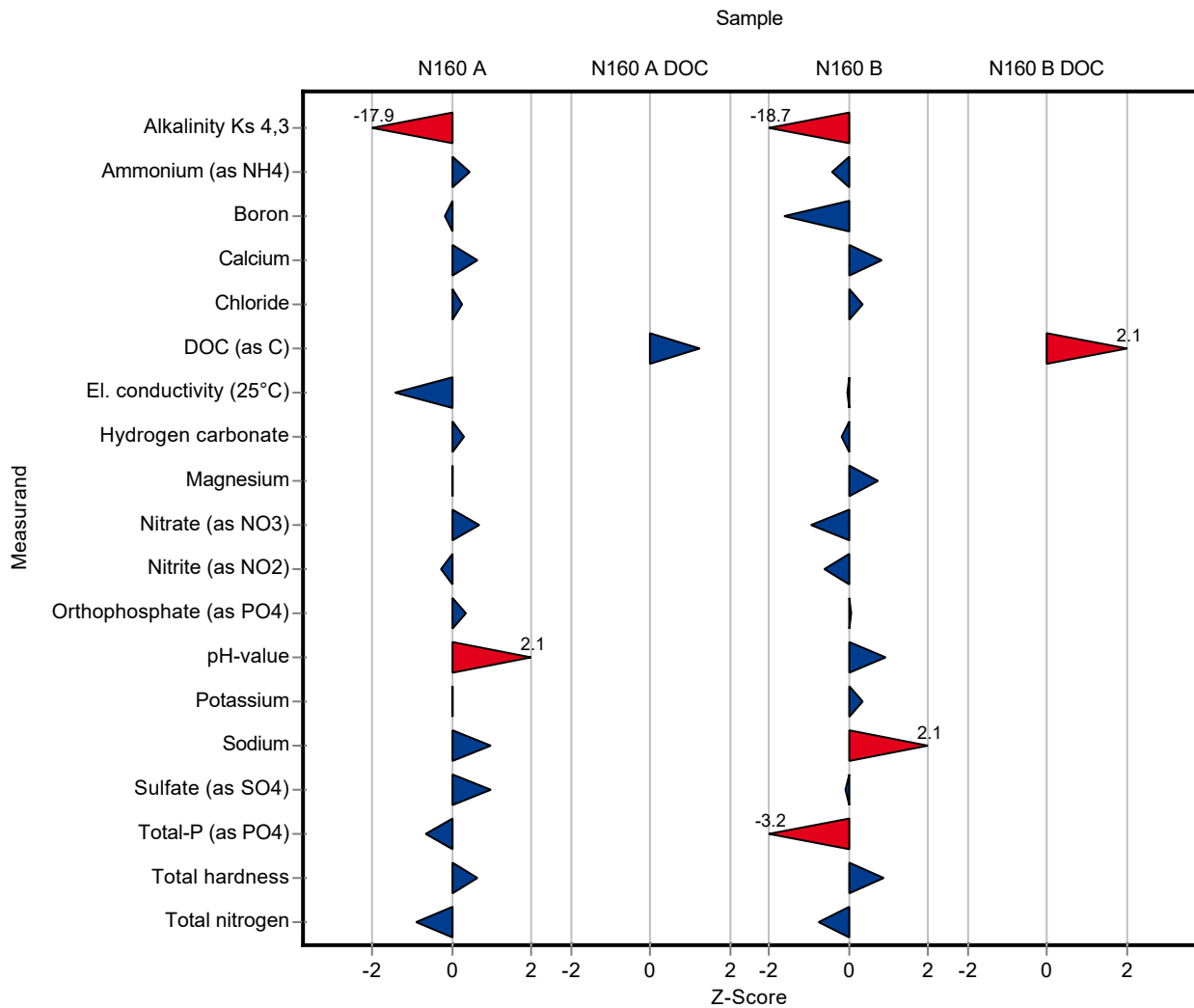
Summary of results Nutrients/Major Ions N160

Labcode: LC0030

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.6 ± 0.2	0.891	101	0.36
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 23	6.16	100	-0.02
Hydrogen carbonate	mg/l	213 ± 1.3	212.3 ± 10	4.26	99.7	-0.17
Magnesium	mg/l	14.9 ± 0.135	15.4 ± 2.25	0.598	103	0.75
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.8 ± 0.5	0.672	95.3	-0.95
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.187 ± 0.005	0.0102	96.8	-0.60
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.11 ± 0.005	0.0174	101	0.06
pH-value	-	8.07 ± 0.019	8.22 ± 0.03	0.161	102	0.93
Potassium	mg/l	2.18 ± 0.0235	2.22 ± 0.3	0.113	102	0.35
Sodium	mg/l	14.3 ± 0.118	15.3 ± 2.25	0.485	107	2.14
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.4 ± 0.2	0.973	99.7	-0.09
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.704 ± 0.01	0.0694	76.1	-3.19
Total hardness	mmol/l	2.14 ± 0.0185	2.2 ± 0.3	0.0643	103	0.86
Total nitrogen	mg/l	3.42 ± 0.0995	3.2 ± 0.32	0.284	93.6	-0.77

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	3.18 ± 0.3	0.263	121	2.11



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	5.1 ± 0.25	0.159	64.2	-5.68
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0835 ± 0.006	0.00952	105	0.34
Boron	mg/l	0.0747 ± 0.00166	0.0731 ± 0.011	0.00822	97.8	-0.07
Calcium	mg/l	143 ± 1.42	145.5 ± 15	4.42	102	0.10
Chloride	mg/l	72.1 ± 0.47	72.9 ± 0.5	2.89	101	0.68
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1030 ± 50	13.6	98.1	-0.20
Hydrogen carbonate	mg/l	483 ± 1.82	485.7 ± 20	9.66	101	0.07
Magnesium	mg/l	35.3 ± 0.274	35.3 ± 4.5	1.41	100	0.01
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.6 ± 1	1.19	103	0.41
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.284 ± 0.005	0.0153	98.5	-0.41
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.065 ± 0.005	0.00987	105	0.32
pH-value	-	7.69 ± 0.0265	8.01 ± 0.03	0.154	104	4.94
Potassium	mg/l	5.32 ± 0.0504	5.33 ± 0.5	0.277	100	0.01
Sodium	mg/l	31.6 ± 0.245	32.65 ± 4.5	1.07	103	0.12
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.6 ± 0.55	1.78	103	1.48
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.128 ± 0.01	0.0891	95	-2.20
Total hardness	mmol/l	5 ± 0.0376	5.1 ± 0.75	0.15	102	0.06
Total nitrogen	mg/l	5.67 ± 0.147	5.25 ± 0.52	0.47	92.7	-0.40

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.34 ± 0.25	0.208	113	0.52

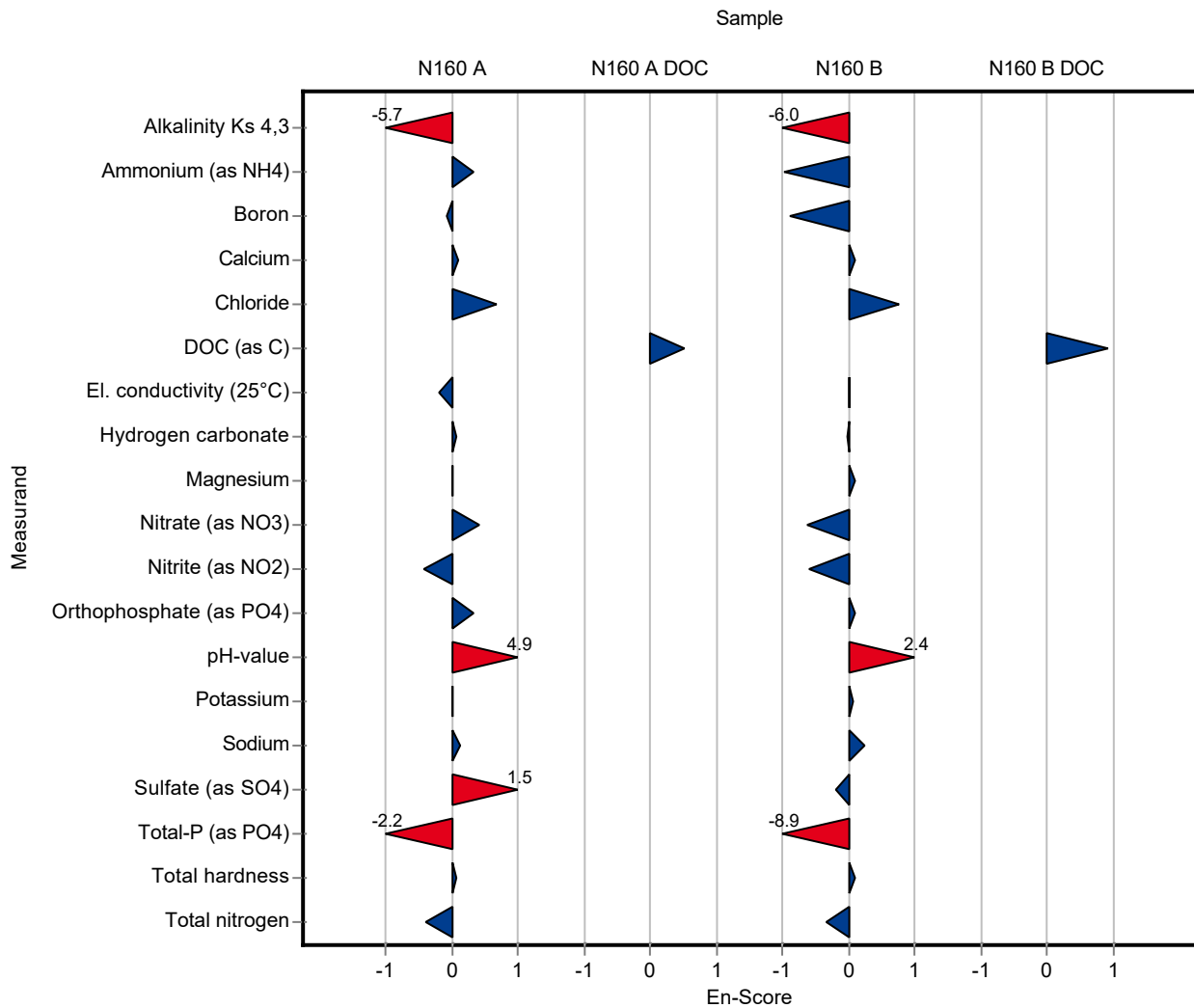
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	2.2 ± 0.11	0.0704	62.5	-5.98
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.27 ± 0.007	0.0341	94.9	-0.98
Boron	mg/l	0.0149 ± 0.000559	0.0122 ± 0.0015	0.00164	81.9	-0.89

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	62.85 ± 9	1.9	103	0.09
Chloride	mg/l	22.3 ± 0.157	22.6 ± 0.2	0.891	101	0.75
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 23	6.16	100	0.00
Hydrogen carbonate	mg/l	213 ± 1.3	212.3 ± 10	4.26	99.7	-0.04
Magnesium	mg/l	14.9 ± 0.135	15.4 ± 2.25	0.598	103	0.10
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.8 ± 0.5	0.672	95.3	-0.63
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.187 ± 0.005	0.0102	96.8	-0.59
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.11 ± 0.005	0.0174	101	0.09
pH-value	-	8.07 ± 0.019	8.22 ± 0.03	0.161	102	2.39
Potassium	mg/l	2.18 ± 0.0235	2.22 ± 0.3	0.113	102	0.07
Sodium	mg/l	14.3 ± 0.118	15.3 ± 2.25	0.485	107	0.23
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.4 ± 0.2	0.973	99.7	-0.19
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.704 ± 0.01	0.0694	76.1	-8.89
Total hardness	mmol/l	2.14 ± 0.0185	2.2 ± 0.3	0.0643	103	0.09
Total nitrogen	mg/l	3.42 ± 0.0995	3.2 ± 0.32	0.284	93.6	-0.34

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	3.18 ± 0.3	0.263	121	0.92



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.02 ± 0.1	0.159	101	0.47
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0695 ± 0.0088	0.00952	87.6	-1.03
Boron	mg/l	0.0747 ± 0.00166	0.0749 ± 0.006	0.00822	100	0.02
Calcium	mg/l	143 ± 1.42	140 ± 7	4.42	98.2	-0.58
Chloride	mg/l	72.1 ± 0.47	73.8 ± 4.7	2.89	102	0.57
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1048 ± 6	13.6	99.8	-0.12
Hydrogen carbonate	mg/l	483 ± 1.82	489 ± 6	9.66	101	0.63
Magnesium	mg/l	35.3 ± 0.274	35.7 ± 1.6	1.41	101	0.32
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	25.6 ± 1.8	1.19	108	1.53
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.28 ± 0.015	0.0153	97.1	-0.55
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<0.015 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.63 ± 0.04	0.154	99.3	-0.37
Potassium	mg/l	5.32 ± 0.0504	5.42 ± 0.27	0.277	102	0.35
Sodium	mg/l	31.6 ± 0.245	32.4 ± 1.6	1.07	102	0.73
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	61.2 ± 5.3	1.78	114	4.13
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.36 ± 0.07	0.0891	114	1.93
Total hardness	mmol/l	5 ± 0.0376	4.97 ± 0.25	0.15	99.3	-0.23
Total nitrogen	mg/l	5.67 ± 0.147	6.3 ± 0.76	0.47	111	1.35

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.54 ± 0.05	0.0704	101	0.32
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.292 ± 0.037	0.0341	103	0.22
Boron	mg/l	0.0149 ± 0.000559	0.0139 ± 0.0011	0.00164	93.3	-0.61
Calcium	mg/l	61.3 ± 0.649	56.7 ± 2.8	1.9	92.5	-2.42

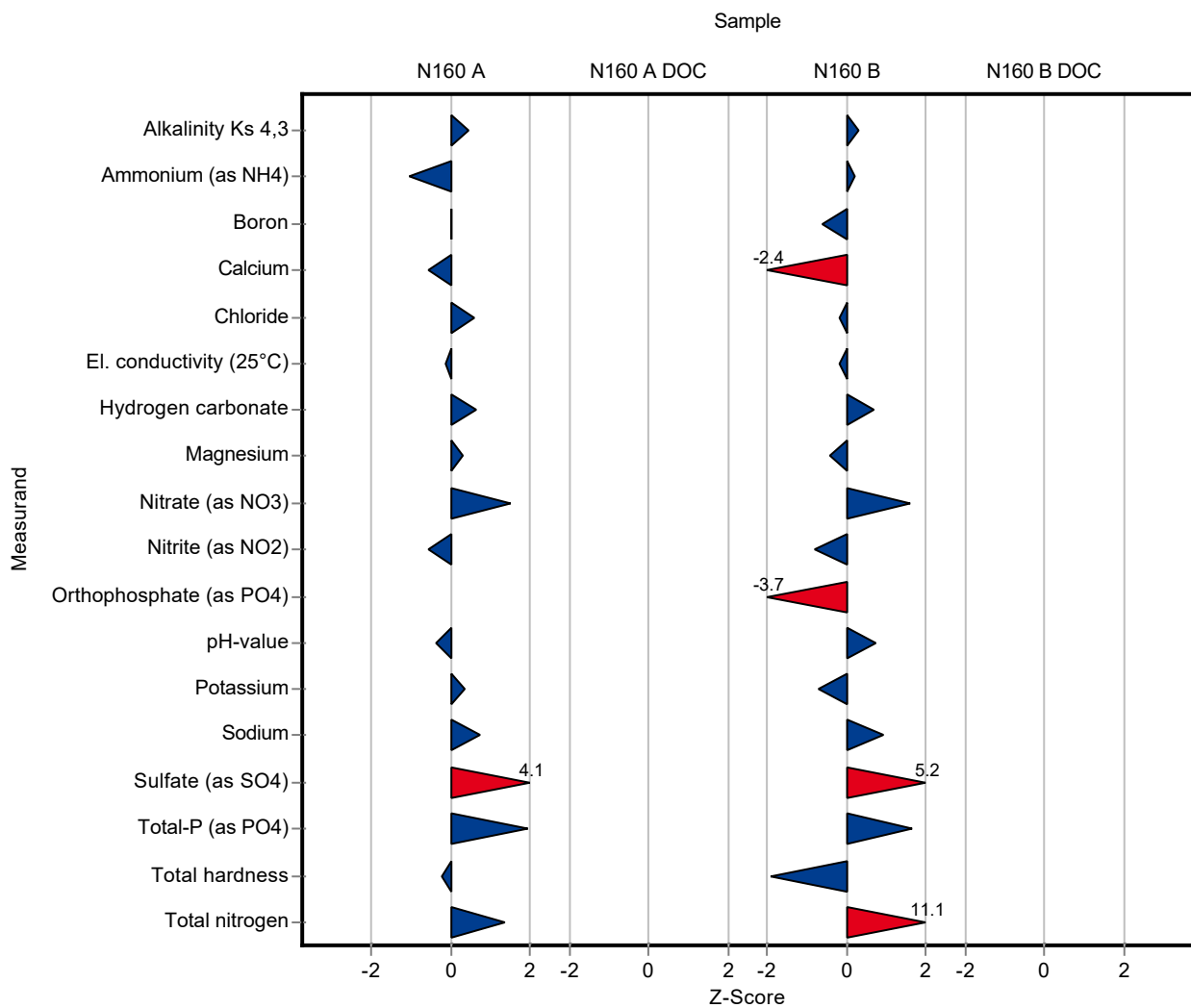
Summary of results Nutrients/Major Ions N160

Labcode: LC0031

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.1 ± 1.4	0.891	99.2	-0.20
El. conductivity (25°C)	µS/cm	474 ± 1.13	473 ± 3	6.16	99.8	-0.18
Hydrogen carbonate	mg/l	213 ± 1.3	216 ± 3	4.26	101	0.70
Magnesium	mg/l	14.9 ± 0.135	14.7 ± 0.7	0.598	98.3	-0.42
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	14.5 ± 1	0.672	108	1.58
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.185 ± 0.01	0.0102	95.8	-0.80
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.0441 ± 0.0028	0.0174	40.5	-3.72
pH-value	-	8.07 ± 0.019	8.19 ± 0.04	0.161	101	0.74
Potassium	mg/l	2.18 ± 0.0235	2.1 ± 0.11	0.113	96.3	-0.71
Sodium	mg/l	14.3 ± 0.118	14.7 ± 0.7	0.485	103	0.90
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	34.5 ± 3	0.973	117	5.15
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.04 ± 0.05	0.0694	112	1.65
Total hardness	mmol/l	2.14 ± 0.0185	2.02 ± 0.1	0.0643	94.2	-1.94
Total nitrogen	mg/l	3.42 ± 0.0995	6.58 ± 0.79	0.284	192	11.10

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.02 ± 0.1	0.159	101	0.37
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0695 ± 0.0088	0.00952	87.6	-0.55
Boron	mg/l	0.0747 ± 0.00166	0.0749 ± 0.006	0.00822	100	0.01
Calcium	mg/l	143 ± 1.42	140 ± 7	4.42	98.2	-0.18
Chloride	mg/l	72.1 ± 0.47	73.8 ± 4.7	2.89	102	0.18
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1048 ± 6	13.6	99.8	-0.13
Hydrogen carbonate	mg/l	483 ± 1.82	489 ± 6	9.66	101	0.50
Magnesium	mg/l	35.3 ± 0.274	35.7 ± 1.6	1.41	101	0.14
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	25.6 ± 1.8	1.19	108	0.50
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.28 ± 0.015	0.0153	97.1	-0.28
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<0.015 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.63 ± 0.04	0.154	99.3	-0.67
Potassium	mg/l	5.32 ± 0.0504	5.42 ± 0.27	0.277	102	0.18
Sodium	mg/l	31.6 ± 0.245	32.4 ± 1.6	1.07	102	0.24
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	61.2 ± 5.3	1.78	114	0.69
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.36 ± 0.07	0.0891	114	1.22
Total hardness	mmol/l	5 ± 0.0376	4.97 ± 0.25	0.15	99.3	-0.07
Total nitrogen	mg/l	5.67 ± 0.147	6.3 ± 0.76	0.47	111	0.42

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

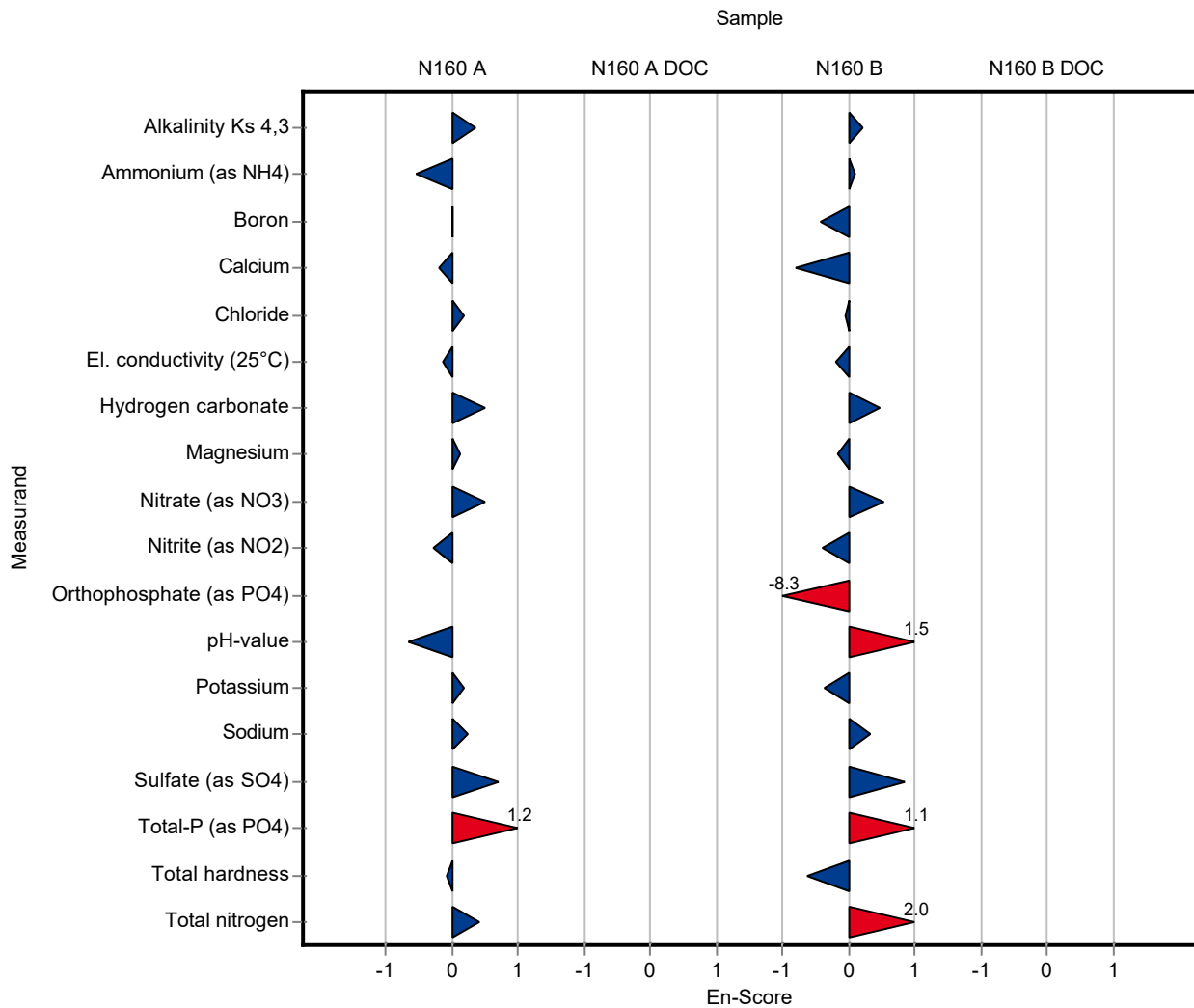
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.54 ± 0.05	0.0704	101	0.22
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.292 ± 0.037	0.0341	103	0.10
Boron	mg/l	0.0149 ± 0.000559	0.0139 ± 0.0011	0.00164	93.3	-0.44

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	56.7 ± 2.8	1.9	92.5	-0.82
Chloride	mg/l	22.3 ± 0.157	22.1 ± 1.4	0.891	99.2	-0.06
El. conductivity (25°C)	µS/cm	474 ± 1.13	473 ± 3	6.16	99.8	-0.19
Hydrogen carbonate	mg/l	213 ± 1.3	216 ± 3	4.26	101	0.48
Magnesium	mg/l	14.9 ± 0.135	14.7 ± 0.7	0.598	98.3	-0.18
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	14.5 ± 1	0.672	108	0.53
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.185 ± 0.01	0.0102	95.8	-0.41
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.0441 ± 0.0028	0.0174	40.5	-8.26
pH-value	-	8.07 ± 0.019	8.19 ± 0.04	0.161	101	1.46
Potassium	mg/l	2.18 ± 0.0235	2.1 ± 0.11	0.113	96.3	-0.36
Sodium	mg/l	14.3 ± 0.118	14.7 ± 0.7	0.485	103	0.31
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	34.5 ± 3	0.973	117	0.83
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.04 ± 0.05	0.0694	112	1.13
Total hardness	mmol/l	2.14 ± 0.0185	2.02 ± 0.1	0.0643	94.2	-0.62
Total nitrogen	mg/l	3.42 ± 0.0995	6.58 ± 0.79	0.284	192	2.00

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.85 ± 0.31	0.159	98.8	-0.60
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.077 ± 0.019	0.00952	97	-0.25
Boron	mg/l	0.0747 ± 0.00166	0.09 ± 0.0054	0.00822	120	1.86
Calcium	mg/l	143 ± 1.42	133 ± 10.64	4.42	93.3	-2.17
Chloride	mg/l	72.1 ± 0.47	70.49 ± 7.05	2.89	97.7	-0.57
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1051 ± 5	13.6	100	0.10
Hydrogen carbonate	mg/l	483 ± 1.82	476 ± 42.8	9.66	98.6	-0.72
Magnesium	mg/l	35.3 ± 0.274	32.8 ± 3.28	1.41	93	-1.74
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.1 ± 2.31	1.19	97.1	-0.57
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.305 ± 0.031	0.0153	106	1.09
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.061 ± 0.006	0.00987	98.9	-0.07
pH-value	-	7.69 ± 0.0265	7.7 ± 0.11	0.154	100	0.09
Potassium	mg/l	5.32 ± 0.0504	5.15 ± 0.515	0.277	96.7	-0.63
Sodium	mg/l	31.6 ± 0.245	30.1 ± 3.612	1.07	95.2	-1.41
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	51.33 ± 5.13	1.78	95.3	-1.42
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.171 ± 0.234	0.0891	98.6	-0.19
Total hardness	mmol/l	5 ± 0.0376	5.05 ± 0.4	0.15	101	0.30
Total nitrogen	mg/l	5.67 ± 0.147	5.44 ± 0.11	0.47	96	-0.48

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.89 ± 0.38	0.208	90.9	-0.91

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.48 ± 0.14	0.0704	98.9	-0.54
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.283 ± 0.071	0.0341	99.5	-0.04
Boron	mg/l	0.0149 ± 0.000559	<0.047 (LOD) ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	56.5 ± 4.52	1.9	92.2	-2.53

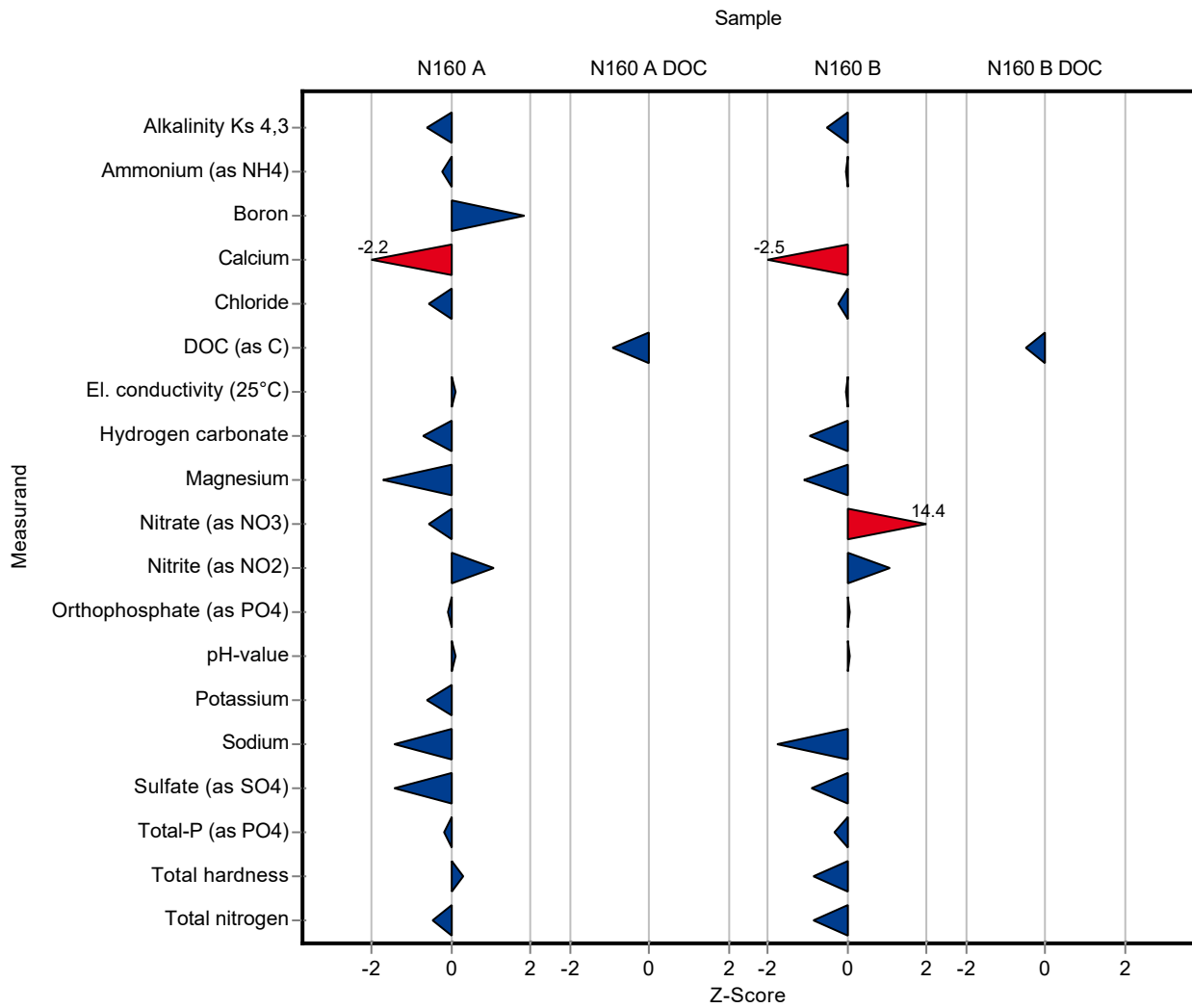
Summary of results Nutrients/Major Ions N160

Labcode: LC0032

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.06 ± 2.21	0.891	99	-0.25
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 5	6.16	100	-0.02
Hydrogen carbonate	mg/l	213 ± 1.3	209 ± 18.8	4.26	98.1	-0.95
Magnesium	mg/l	14.9 ± 0.135	14.3 ± 1.43	0.598	95.7	-1.09
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	23.1 ± 2.31	0.672	172	14.40
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.204 ± 0.02	0.0102	106	1.06
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.11 ± 0.011	0.0174	101	0.06
pH-value	-	8.07 ± 0.019	8.08 ± 0.11	0.161	100	0.06
Potassium	mg/l	2.18 ± 0.0235	<2.46 (LOD) ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	13.4 ± 1.608	0.485	94	-1.78
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.62 ± 2.86	0.973	97.1	-0.89
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.904 ± 0.181	0.0694	97.7	-0.31
Total hardness	mmol/l	2.14 ± 0.0185	2.09 ± 0.17	0.0643	97.4	-0.85
Total nitrogen	mg/l	3.42 ± 0.0995	3.18 ± 0.64	0.284	93	-0.84

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.5 ± 0.5	0.263	95.2	-0.48



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.85 ± 0.31	0.159	98.8	-0.15
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.077 ± 0.019	0.00952	97	-0.06
Boron	mg/l	0.0747 ± 0.00166	0.09 ± 0.0054	0.00822	120	1.40
Calcium	mg/l	143 ± 1.42	133 ± 10.64	4.42	93.3	-0.45
Chloride	mg/l	72.1 ± 0.47	70.49 ± 7.05	2.89	97.7	-0.12
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1051 ± 5	13.6	100	0.13
Hydrogen carbonate	mg/l	483 ± 1.82	476 ± 42.8	9.66	98.6	-0.08
Magnesium	mg/l	35.3 ± 0.274	32.8 ± 3.28	1.41	93	-0.37
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.1 ± 2.31	1.19	97.1	-0.15
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.305 ± 0.031	0.0153	106	0.27
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.061 ± 0.006	0.00987	98.9	-0.05
pH-value	-	7.69 ± 0.0265	7.7 ± 0.11	0.154	100	0.06
Potassium	mg/l	5.32 ± 0.0504	5.15 ± 0.515	0.277	96.7	-0.17
Sodium	mg/l	31.6 ± 0.245	30.1 ± 3.612	1.07	95.2	-0.21
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	51.33 ± 5.13	1.78	95.3	-0.25
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.171 ± 0.234	0.0891	98.6	-0.04
Total hardness	mmol/l	5 ± 0.0376	5.05 ± 0.4	0.15	101	0.06
Total nitrogen	mg/l	5.67 ± 0.147	5.44 ± 0.11	0.47	96	-0.85

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.89 ± 0.38	0.208	90.9	-0.25

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.48 ± 0.14	0.0704	98.9	-0.14
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.283 ± 0.071	0.0341	99.5	-0.01
Boron	mg/l	0.0149 ± 0.000559	<0.047 (LOD) ± -	0.00164	-	-

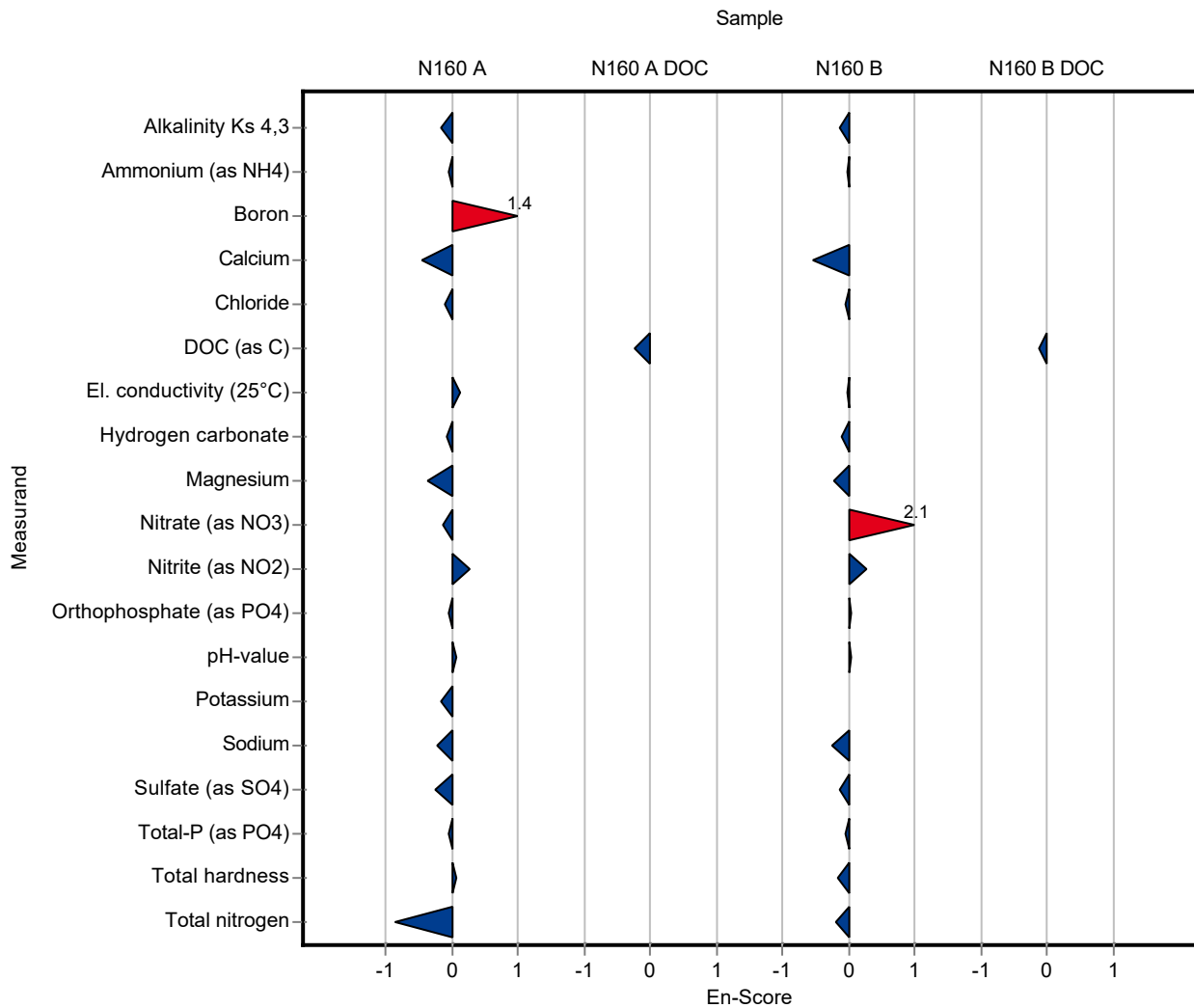
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0032

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	56.5 ± 4.52	1.9	92.2	-0.53
Chloride	mg/l	22.3 ± 0.157	22.06 ± 2.21	0.891	99	-0.05
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 5	6.16	100	-0.01
Hydrogen carbonate	mg/l	213 ± 1.3	209 ± 18.8	4.26	98.1	-0.11
Magnesium	mg/l	14.9 ± 0.135	14.3 ± 1.43	0.598	95.7	-0.23
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	23.1 ± 2.31	0.672	172	2.09
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.204 ± 0.02	0.0102	106	0.27
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.11 ± 0.011	0.0174	101	0.05
pH-value	-	8.07 ± 0.019	8.08 ± 0.11	0.161	100	0.05
Potassium	mg/l	2.18 ± 0.0235	<2.46 (LOD) ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	13.4 ± 1.608	0.485	94	-0.27
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.62 ± 2.86	0.973	97.1	-0.15
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.904 ± 0.181	0.0694	97.7	-0.06
Total hardness	mmol/l	2.14 ± 0.0185	2.09 ± 0.17	0.0643	97.4	-0.16
Total nitrogen	mg/l	3.42 ± 0.0995	3.18 ± 0.64	0.284	93	-0.19

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.5 ± 0.5	0.263	95.2	-0.13



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.95 ± 0.19	0.159	100	0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1090 ± 41	13.6	104	2.96
Hydrogen carbonate	mg/l	483 ± 1.82	480 ± 11	9.66	99.4	-0.30
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.27 ± 0.012	0.0153	93.6	-1.20
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.59 ± 0.27	0.154	98.7	-0.63
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.51 ± 0.08	0.0704	99.8	-0.11
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

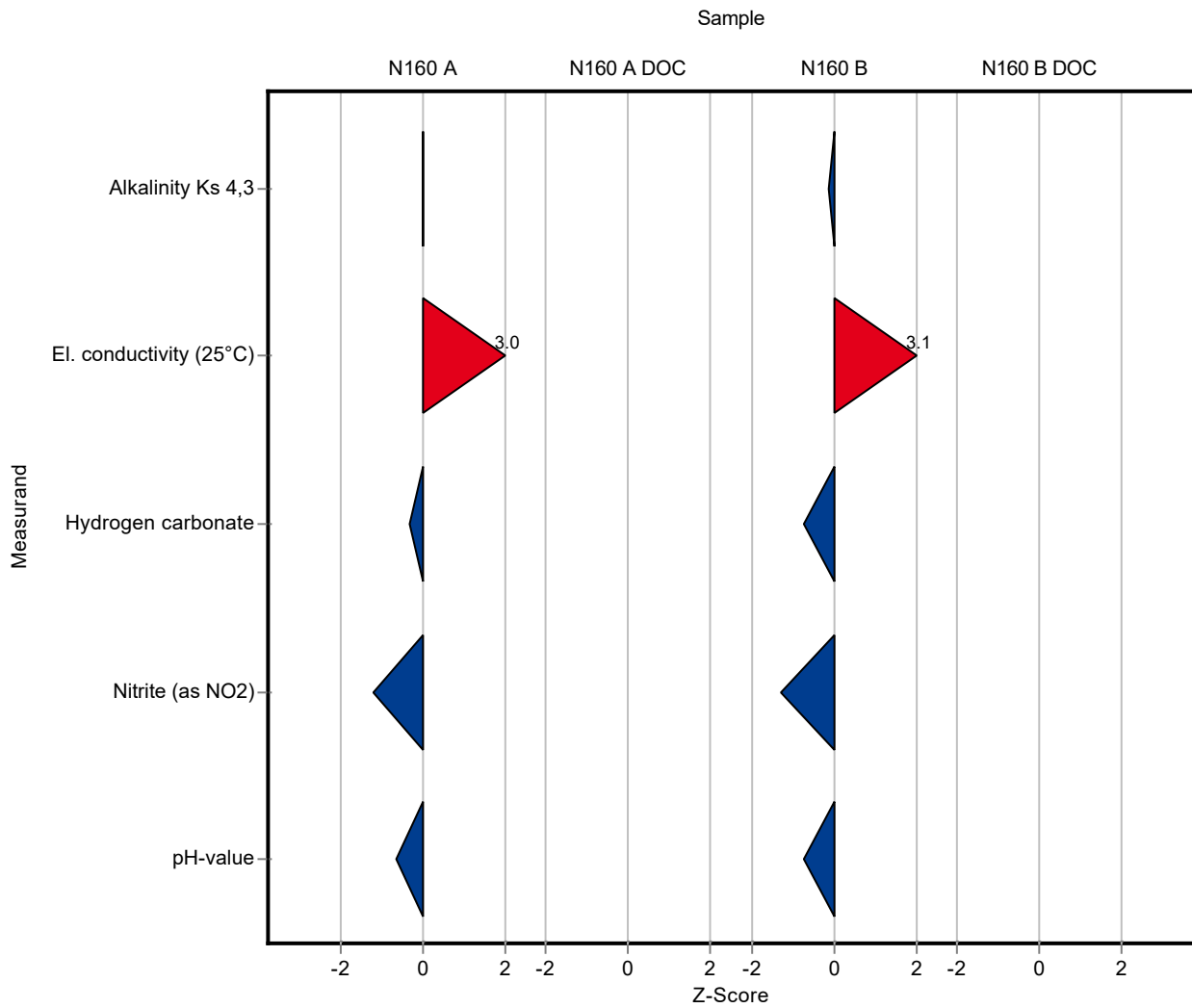
Summary of results Nutrients/Major Ions N160

Labcode: LC0033

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	493 ± 19	6.16	104	3.06
Hydrogen carbonate	mg/l	213 ± 1.3	210 ± 5	4.26	98.6	-0.71
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.18 ± 0.008	0.0102	93.2	-1.29
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	7.95 ± 0.28	0.161	98.5	-0.74
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.95 ± 0.19	0.159	100	0.01
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1090 ± 41	13.6	104	0.49
Hydrogen carbonate	mg/l	483 ± 1.82	480 ± 11	9.66	99.4	-0.13
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.27 ± 0.012	0.0153	93.6	-0.76
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.59 ± 0.27	0.154	98.7	-0.18
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.51 ± 0.08	0.0704	99.8	-0.05
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

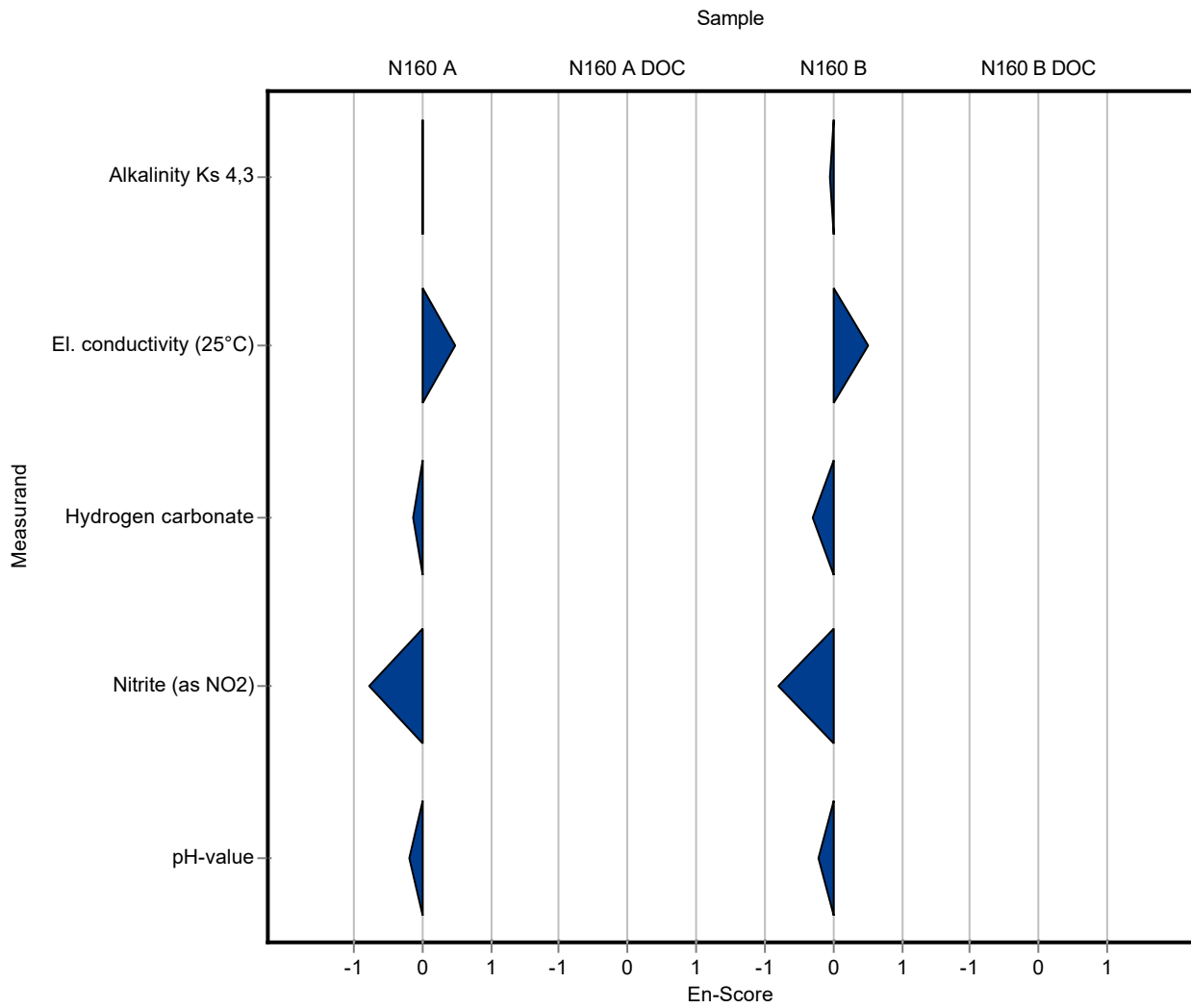
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0033

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	493 ± 19	6.16	104	0.50
Hydrogen carbonate	mg/l	213 ± 1.3	210 ± 5	4.26	98.6	-0.30
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.18 ± 0.008	0.0102	93.2	-0.81
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	7.95 ± 0.28	0.161	98.5	-0.21
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.91 ± 0.24	0.159	99.6	-0.22
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.083 ± 0.021	0.00952	105	0.38
Boron	mg/l	0.0747 ± 0.00166	0.08 ± 0.008	0.00822	107	0.64
Calcium	mg/l	143 ± 1.42	141 ± 14	4.42	98.9	-0.36
Chloride	mg/l	72.1 ± 0.47	74.2 ± 7.4	2.89	103	0.71
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1044 ± 31	13.6	99.5	-0.41
Hydrogen carbonate	mg/l	483 ± 1.82	483 ± 15	9.66	100	0.01
Magnesium	mg/l	35.3 ± 0.274	35.2 ± 3.5	1.41	99.8	-0.04
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.3 ± 2.4	1.19	102	0.44
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.28 ± 0.11	0.0153	97.1	-0.55
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<1 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.79 ± 0.1	0.154	101	0.68
Potassium	mg/l	5.32 ± 0.0504	5.57 ± 0.56	0.277	105	0.89
Sodium	mg/l	31.6 ± 0.245	31.5 ± 3.2	1.07	99.6	-0.11
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	50.5 ± 5.1	1.78	93.8	-1.89
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	4.97 ± 0.5	0.15	99.3	-0.23
Total nitrogen	mg/l	5.67 ± 0.147	<10 (LOQ) ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.57 ± 0.11	0.0704	101	0.74
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.298 ± 0.075	0.0341	105	0.40
Boron	mg/l	0.0149 ± 0.000559	<50 (LOQ) ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	60.9 ± 6.1	1.9	99.3	-0.21

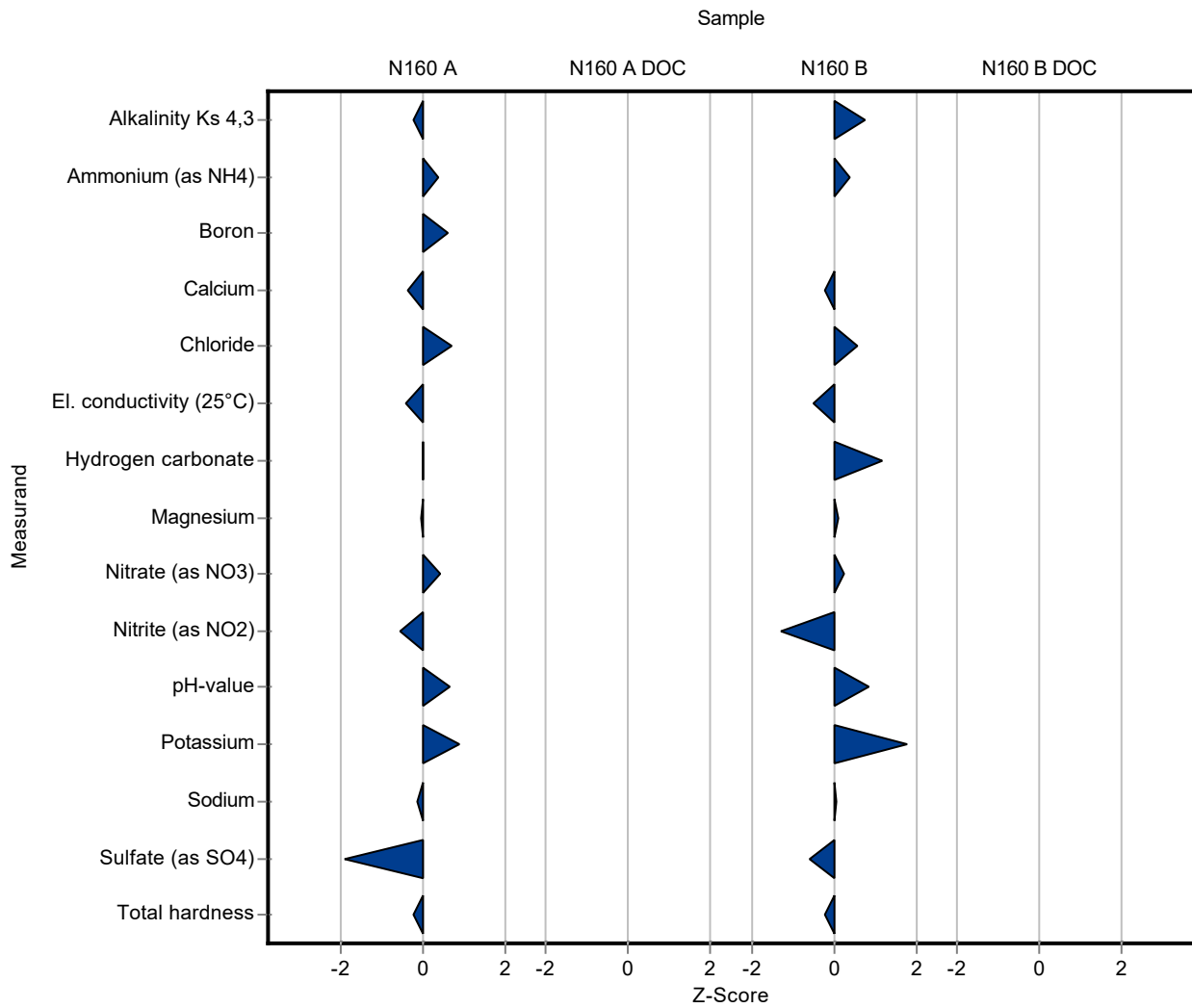
Summary of results Nutrients/Major Ions N160

Labcode: LC0034

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.8 ± 2.3	0.891	102	0.58
El. conductivity (25°C)	µS/cm	474 ± 1.13	471 ± 14	6.16	99.3	-0.51
Hydrogen carbonate	mg/l	213 ± 1.3	218 ± 7	4.26	102	1.17
Magnesium	mg/l	14.9 ± 0.135	15 ± 1.5	0.598	100	0.08
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.6 ± 1.4	0.672	101	0.24
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.18 ± 0.07	0.0102	93.2	-1.29
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	<1 (LOQ) ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.21 ± 0.1	0.161	102	0.87
Potassium	mg/l	2.18 ± 0.0235	2.38 ± 0.24	0.113	109	1.76
Sodium	mg/l	14.3 ± 0.118	14.3 ± 1.4	0.485	100	0.08
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.9 ± 2.9	0.973	98	-0.60
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.13 ± 0.21	0.0643	99.3	-0.23
Total nitrogen	mg/l	3.42 ± 0.0995	<10 (LOQ) ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.91 ± 0.24	0.159	99.6	-0.07
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.083 ± 0.021	0.00952	105	0.09
Boron	mg/l	0.0747 ± 0.00166	0.08 ± 0.008	0.00822	107	0.33
Calcium	mg/l	143 ± 1.42	141 ± 14	4.42	98.9	-0.06
Chloride	mg/l	72.1 ± 0.47	74.2 ± 7.4	2.89	103	0.14
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1044 ± 31	13.6	99.5	-0.09
Hydrogen carbonate	mg/l	483 ± 1.82	483 ± 15	9.66	100	0.00
Magnesium	mg/l	35.3 ± 0.274	35.2 ± 3.5	1.41	99.8	-0.01
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.3 ± 2.4	1.19	102	0.11
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.28 ± 0.11	0.0153	97.1	-0.04
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<1 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.79 ± 0.1	0.154	101	0.52
Potassium	mg/l	5.32 ± 0.0504	5.57 ± 0.56	0.277	105	0.22
Sodium	mg/l	31.6 ± 0.245	31.5 ± 3.2	1.07	99.6	-0.02
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	50.5 ± 5.1	1.78	93.8	-0.33
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	4.97 ± 0.5	0.15	99.3	-0.03
Total nitrogen	mg/l	5.67 ± 0.147	<10 (LOQ) ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

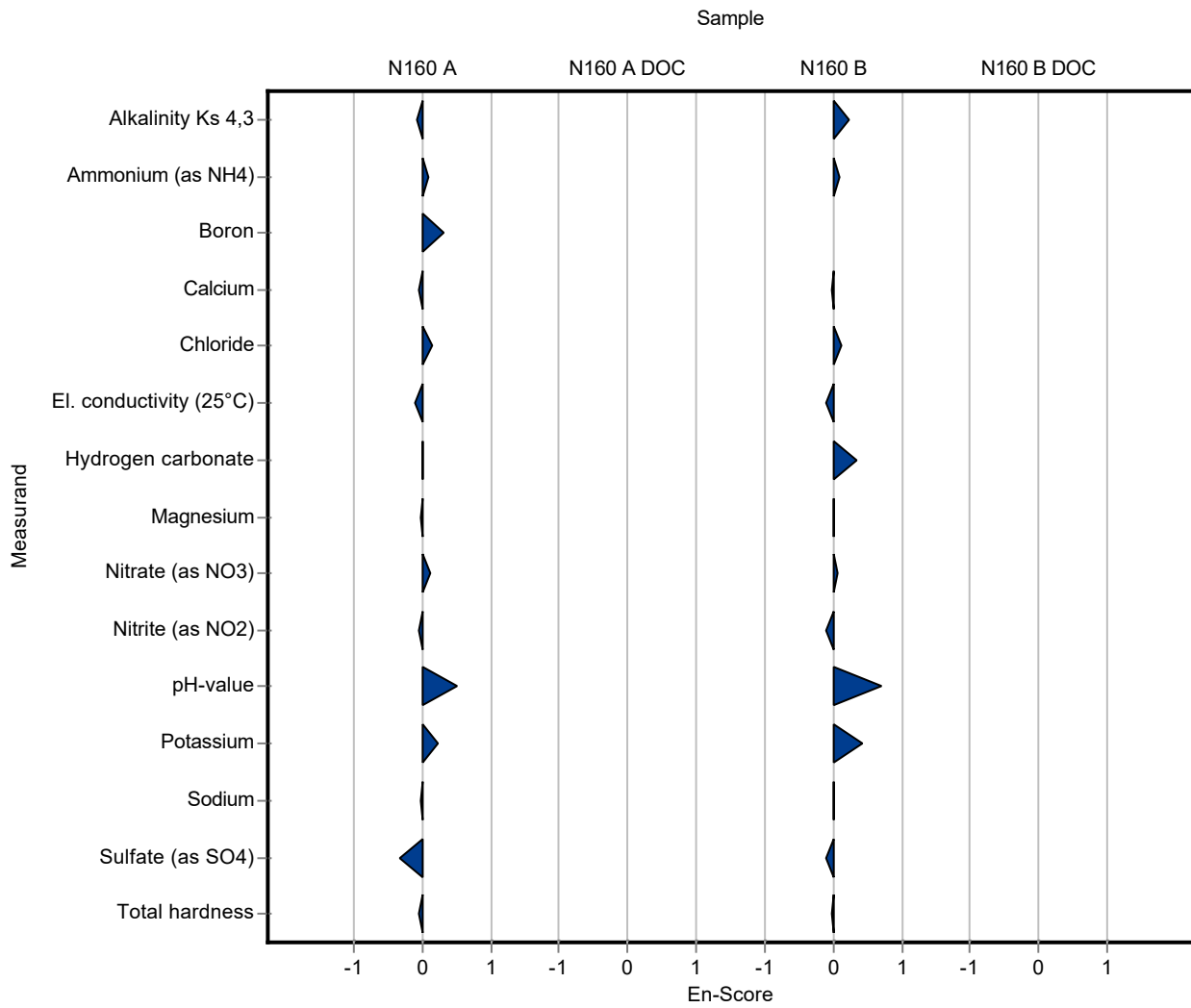
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.57 ± 0.11	0.0704	101	0.24
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.298 ± 0.075	0.0341	105	0.09
Boron	mg/l	0.0149 ± 0.000559	<50 (LOQ) ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	60.9 ± 6.1	1.9	99.3	-0.03
Chloride	mg/l	22.3 ± 0.157	22.8 ± 2.3	0.891	102	0.11
El. conductivity (25°C)	µS/cm	474 ± 1.13	471 ± 14	6.16	99.3	-0.11
Hydrogen carbonate	mg/l	213 ± 1.3	218 ± 7	4.26	102	0.35
Magnesium	mg/l	14.9 ± 0.135	15 ± 1.5	0.598	100	0.02
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.6 ± 1.4	0.672	101	0.06
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.18 ± 0.07	0.0102	93.2	-0.09
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	<1 (LOQ) ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.21 ± 0.1	0.161	102	0.70
Potassium	mg/l	2.18 ± 0.0235	2.38 ± 0.24	0.113	109	0.41
Sodium	mg/l	14.3 ± 0.118	14.3 ± 1.4	0.485	100	0.01
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.9 ± 2.9	0.973	98	-0.10
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.13 ± 0.21	0.0643	99.3	-0.04
Total nitrogen	mg/l	3.42 ± 0.0995	<10 (LOQ) ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8 ± 0.43	0.159	101	0.34
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.075 ± 0.01	0.00952	94.5	-0.46
Boron	mg/l	0.0747 ± 0.00166	0.066 ± 0.012	0.00822	88.3	-1.06
Calcium	mg/l	143 ± 1.42	135.815 ± 15.809	4.42	95.3	-1.53
Chloride	mg/l	72.1 ± 0.47	69.257 ± 6.912	2.89	96	-1.00
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1057 ± 18	13.6	101	0.54
Hydrogen carbonate	mg/l	483 ± 1.82	488.7 ± 26.2	9.66	101	0.60
Magnesium	mg/l	35.3 ± 0.274	34.569 ± 4.255	1.41	98.1	-0.49
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.112 ± 3.118	1.19	97.2	-0.56
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.208 ± 0.033	0.0153	72.1	-5.26
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.67 ± 0.16	0.154	99.8	-0.10
Potassium	mg/l	5.32 ± 0.0504	5.118 ± 0.752	0.277	96.1	-0.74
Sodium	mg/l	31.6 ± 0.245	30.912 ± 3.796	1.07	97.8	-0.65
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.192 ± 5.862	1.78	98.8	-0.38
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.134 ± 0.127	0.0891	95.5	-0.60
Total hardness	mmol/l	5 ± 0.0376	4.8 ± 0.54	0.15	95.9	-1.36
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.04 ± 0.18	0.208	98.1	-0.19

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.19	0.0704	99.5	-0.25
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.244 ± 0.04	0.0341	85.8	-1.19
Boron	mg/l	0.0149 ± 0.000559	0.015 ± 0.003	0.00164	101	0.06
Calcium	mg/l	61.3 ± 0.649	56.185 ± 5.248	1.9	91.6	-2.70

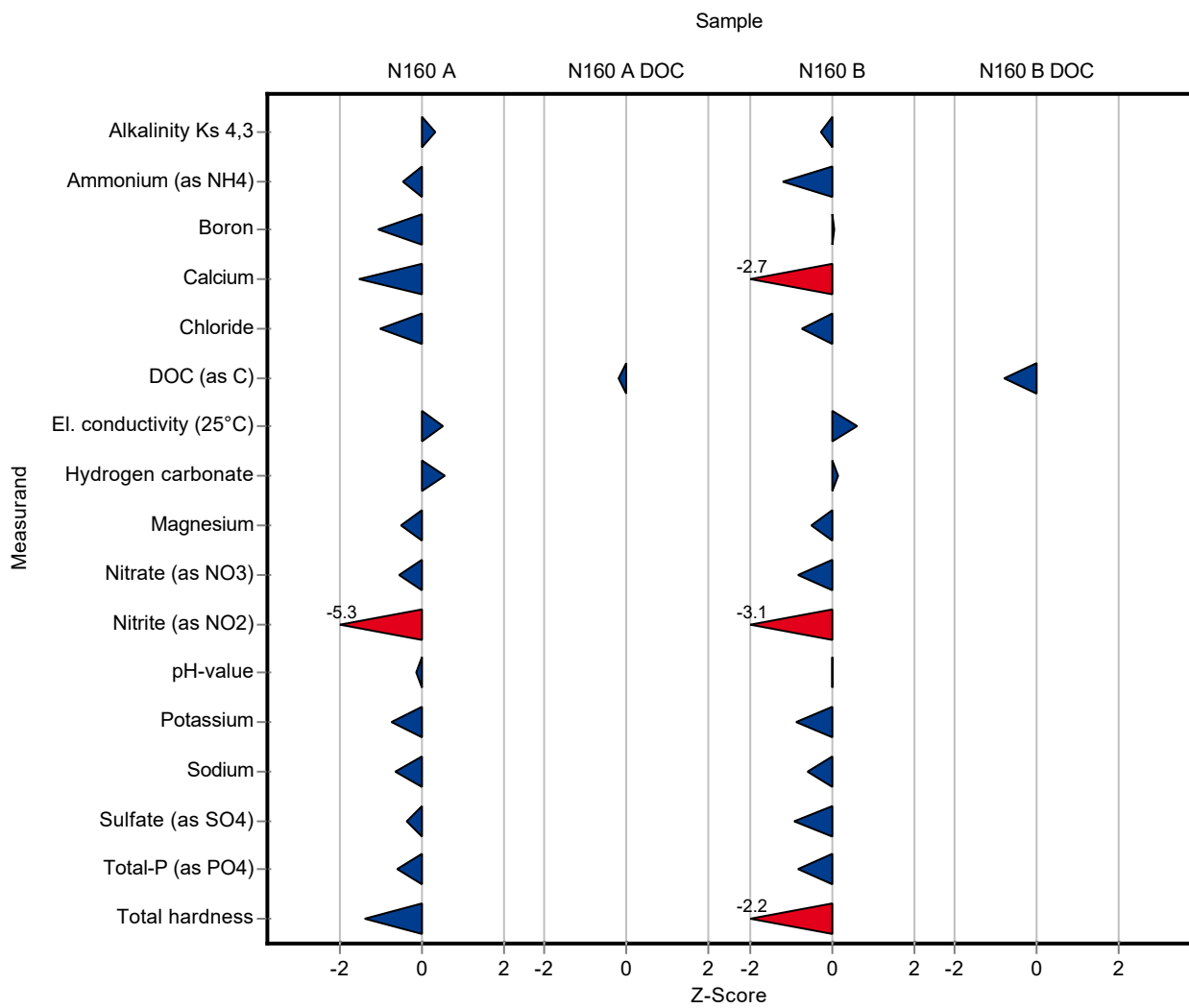
Summary of results Nutrients/Major Ions N160

Labcode: LC0035

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.612 ± 2.157	0.891	97	-0.75
El. conductivity (25°C)	µS/cm	474 ± 1.13	478 ± 8.1	6.16	101	0.63
Hydrogen carbonate	mg/l	213 ± 1.3	213.6 ± 11.43	4.26	100	0.13
Magnesium	mg/l	14.9 ± 0.135	14.655 ± 1.804	0.598	98	-0.49
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.896 ± 1.74	0.672	96	-0.81
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.161 ± 0.025	0.0102	83.3	-3.14
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.07 ± 0.17	0.161	100	0.00
Potassium	mg/l	2.18 ± 0.0235	2.084 ± 0.306	0.113	95.6	-0.85
Sodium	mg/l	14.3 ± 0.118	13.974 ± 1.716	0.485	98	-0.59
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.576 ± 3.149	0.973	96.9	-0.93
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.868 ± 0.097	0.0694	93.8	-0.83
Total hardness	mmol/l	2.14 ± 0.0185	2 ± 0.28	0.0643	93.3	-2.25
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.42 ± 0.21	0.263	92.1	-0.79



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8 ± 0.43	0.159	101	0.06
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.075 ± 0.01	0.00952	94.5	-0.21
Boron	mg/l	0.0747 ± 0.00166	0.066 ± 0.012	0.00822	88.3	-0.36
Calcium	mg/l	143 ± 1.42	135.815 ± 15.809	4.42	95.3	-0.21
Chloride	mg/l	72.1 ± 0.47	69.257 ± 6.912	2.89	96	-0.21
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1057 ± 18	13.6	101	0.20
Hydrogen carbonate	mg/l	483 ± 1.82	488.7 ± 26.2	9.66	101	0.11
Magnesium	mg/l	35.3 ± 0.274	34.569 ± 4.255	1.41	98.1	-0.08
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.112 ± 3.118	1.19	97.2	-0.11
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.208 ± 0.033	0.0153	72.1	-1.22
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.67 ± 0.16	0.154	99.8	-0.05
Potassium	mg/l	5.32 ± 0.0504	5.118 ± 0.752	0.277	96.1	-0.14
Sodium	mg/l	31.6 ± 0.245	30.912 ± 3.796	1.07	97.8	-0.09
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.192 ± 5.862	1.78	98.8	-0.06
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.134 ± 0.127	0.0891	95.5	-0.21
Total hardness	mmol/l	5 ± 0.0376	4.8 ± 0.54	0.15	95.9	-0.19
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.04 ± 0.18	0.208	98.1	-0.11

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.19	0.0704	99.5	-0.05
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.244 ± 0.04	0.0341	85.8	-0.51
Boron	mg/l	0.0149 ± 0.000559	0.015 ± 0.003	0.00164	101	0.02

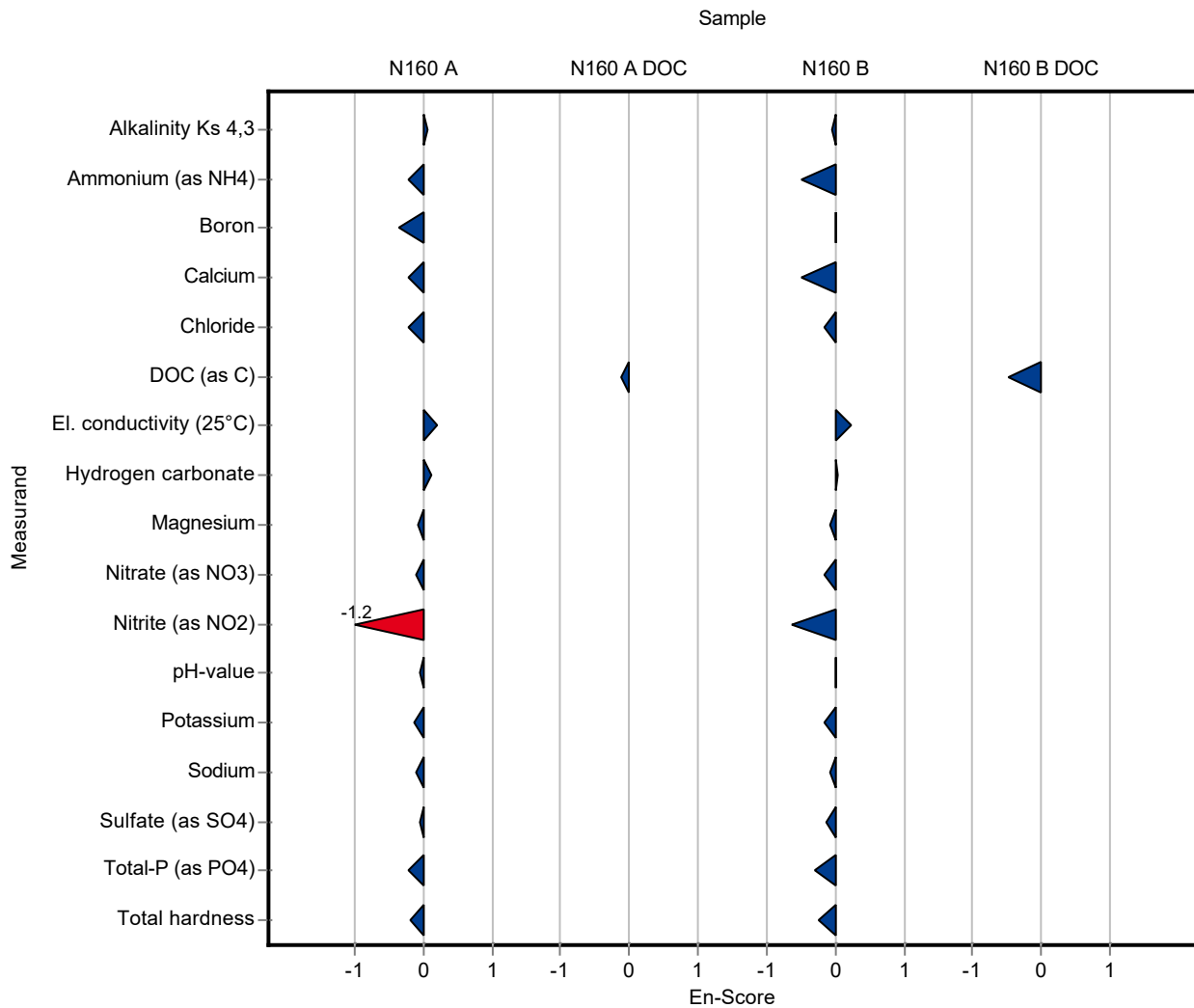
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0035

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	56.185 ± 5.248	1.9	91.6	-0.49
Chloride	mg/l	22.3 ± 0.157	21.612 ± 2.157	0.891	97	-0.15
El. conductivity (25°C)	µS/cm	474 ± 1.13	478 ± 8.1	6.16	101	0.24
Hydrogen carbonate	mg/l	213 ± 1.3	213.6 ± 11.43	4.26	100	0.02
Magnesium	mg/l	14.9 ± 0.135	14.655 ± 1.804	0.598	98	-0.08
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.896 ± 1.74	0.672	96	-0.16
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.161 ± 0.025	0.0102	83.3	-0.64
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.07 ± 0.17	0.161	100	0.00
Potassium	mg/l	2.18 ± 0.0235	2.084 ± 0.306	0.113	95.6	-0.16
Sodium	mg/l	14.3 ± 0.118	13.974 ± 1.716	0.485	98	-0.08
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.576 ± 3.149	0.973	96.9	-0.14
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.868 ± 0.097	0.0694	93.8	-0.29
Total hardness	mmol/l	2.14 ± 0.0185	2 ± 0.28	0.0643	93.3	-0.26
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.42 ± 0.21	0.263	92.1	-0.49



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.9 ± 0.79	0.159	99.4	-0.28
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.078 ± 0.008	0.00952	98.3	-0.14
Boron	mg/l	0.0747 ± 0.00166	0.077 ± 0.0077	0.00822	103	0.28
Calcium	mg/l	143 ± 1.42	135 ± 13	4.42	94.7	-1.71
Chloride	mg/l	72.1 ± 0.47	69.2 ± 6.9	2.89	95.9	-1.02
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1040 ± 100	13.6	99.1	-0.71
Hydrogen carbonate	mg/l	483 ± 1.82	482 ± 48	9.66	99.8	-0.10
Magnesium	mg/l	35.3 ± 0.274	35.5 ± 3.5	1.41	101	0.17
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	25.4 ± 2.5	1.19	107	1.36
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.283 ± 0.028	0.0153	98.1	-0.35
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.068 ± 0.007	0.00987	110	0.64
pH-value	-	7.69 ± 0.0265	7.61 ± 0.2	0.154	99	-0.50
Potassium	mg/l	5.32 ± 0.0504	5.14 ± 0.51	0.277	96.5	-0.66
Sodium	mg/l	31.6 ± 0.245	31 ± 3.1	1.07	98.1	-0.57
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.9 ± 5.5	1.78	102	0.58
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.21 ± 0.24	0.0891	102	0.25
Total hardness	mmol/l	5 ± 0.0376	4.83 ± 0.48	0.15	96.5	-1.16
Total nitrogen	mg/l	5.67 ± 0.147	5.75 ± 0.58	0.47	101	0.18

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.2 ± 0.22	0.208	106	0.58

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.51 ± 0.35	0.0704	99.8	-0.11
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.295 ± 0.029	0.0341	104	0.31
Boron	mg/l	0.0149 ± 0.000559	<0.02 (LOQ) ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	65.5 ± 6.6	1.9	107	2.21

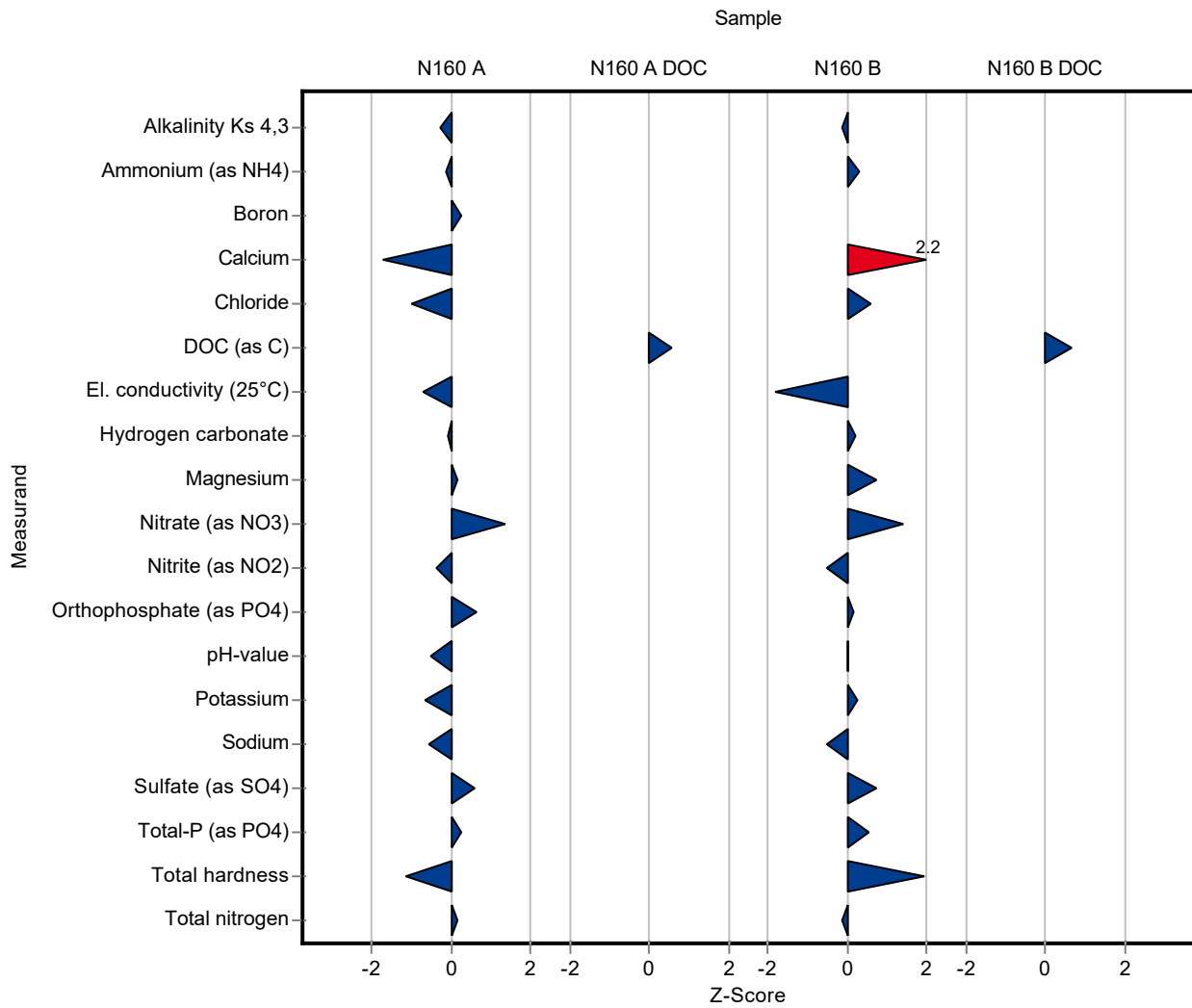
Summary of results Nutrients/Major Ions N160

Labcode: LC0036

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.8 ± 2.3	0.891	102	0.58
El. conductivity (25°C)	µS/cm	474 ± 1.13	463 ± 46	6.16	97.7	-1.81
Hydrogen carbonate	mg/l	213 ± 1.3	214 ± 21	4.26	100	0.23
Magnesium	mg/l	14.9 ± 0.135	15.4 ± 1.5	0.598	103	0.75
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	14.4 ± 1.4	0.672	107	1.43
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.188 ± 0.019	0.0102	97.3	-0.51
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.112 ± 0.011	0.0174	103	0.17
pH-value	-	8.07 ± 0.019	8.07 ± 0.2	0.161	100	0.00
Potassium	mg/l	2.18 ± 0.0235	2.21 ± 0.22	0.113	101	0.26
Sodium	mg/l	14.3 ± 0.118	14 ± 1.4	0.485	98.2	-0.54
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.2 ± 3	0.973	102	0.74
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.963 ± 0.193	0.0694	104	0.54
Total hardness	mmol/l	2.14 ± 0.0185	2.27 ± 0.23	0.0643	106	1.95
Total nitrogen	mg/l	3.42 ± 0.0995	3.38 ± 0.34	0.284	98.9	-0.14

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.8 ± 0.28	0.263	107	0.66



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.9 ± 0.79	0.159	99.4	-0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.078 ± 0.008	0.00952	98.3	-0.08
Boron	mg/l	0.0747 ± 0.00166	0.077 ± 0.0077	0.00822	103	0.15
Calcium	mg/l	143 ± 1.42	135 ± 13	4.42	94.7	-0.29
Chloride	mg/l	72.1 ± 0.47	69.2 ± 6.9	2.89	95.9	-0.21
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1040 ± 100	13.6	99.1	-0.05
Hydrogen carbonate	mg/l	483 ± 1.82	482 ± 48	9.66	99.8	-0.01
Magnesium	mg/l	35.3 ± 0.274	35.5 ± 3.5	1.41	101	0.04
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	25.4 ± 2.5	1.19	107	0.32
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.283 ± 0.028	0.0153	98.1	-0.10
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.068 ± 0.007	0.00987	110	0.44
pH-value	-	7.69 ± 0.0265	7.61 ± 0.2	0.154	99	-0.19
Potassium	mg/l	5.32 ± 0.0504	5.14 ± 0.51	0.277	96.5	-0.18
Sodium	mg/l	31.6 ± 0.245	31 ± 3.1	1.07	98.1	-0.10
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.9 ± 5.5	1.78	102	0.09
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.21 ± 0.24	0.0891	102	0.05
Total hardness	mmol/l	5 ± 0.0376	4.83 ± 0.48	0.15	96.5	-0.18
Total nitrogen	mg/l	5.67 ± 0.147	5.75 ± 0.58	0.47	101	0.07

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.2 ± 0.22	0.208	106	0.27

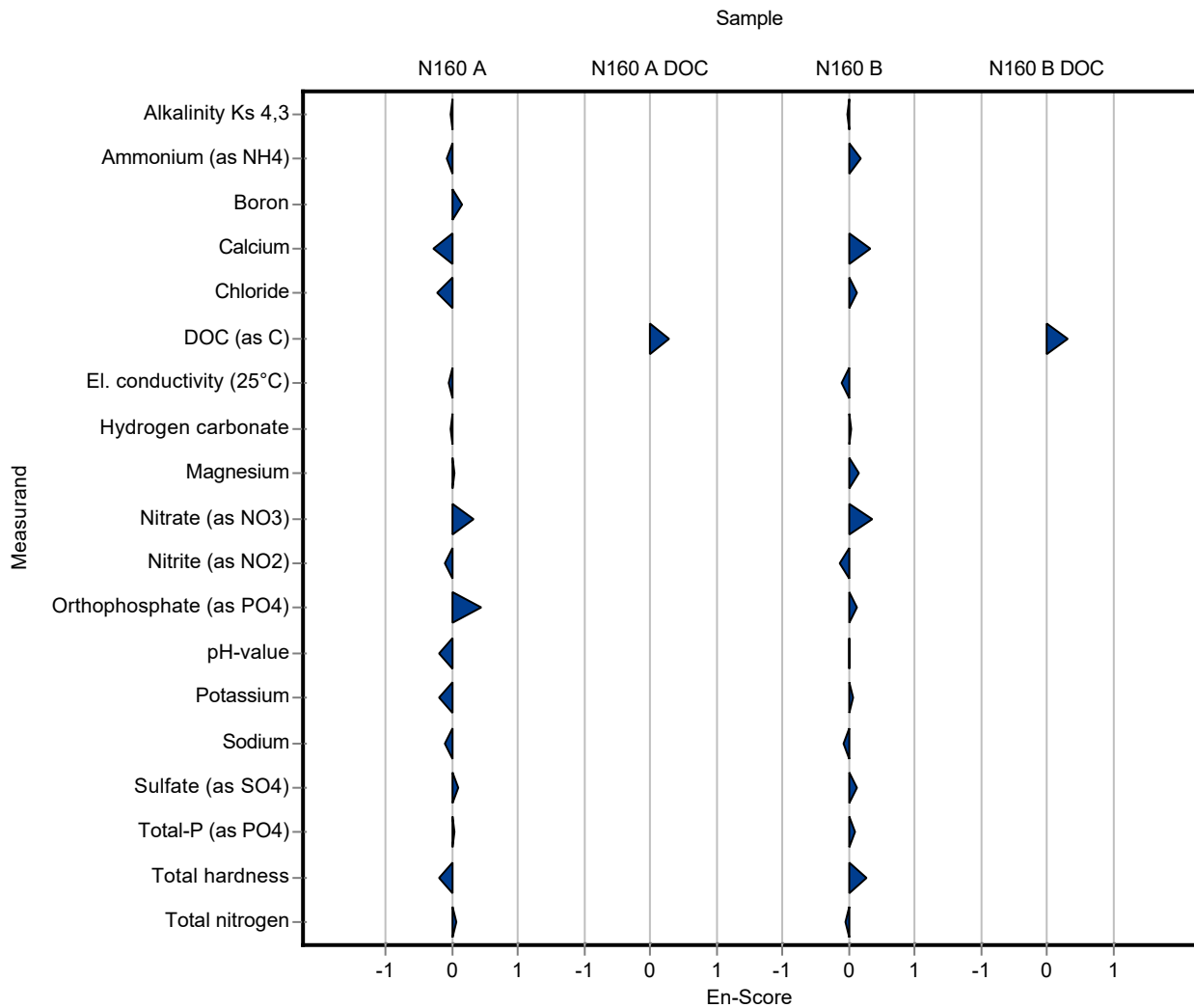
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.51 ± 0.35	0.0704	99.8	-0.01
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.295 ± 0.029	0.0341	104	0.18
Boron	mg/l	0.0149 ± 0.000559	<0.02 (LOQ) ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	65.5 ± 6.6	1.9	107	0.32
Chloride	mg/l	22.3 ± 0.157	22.8 ± 2.3	0.891	102	0.11
El. conductivity (25°C)	µS/cm	474 ± 1.13	463 ± 46	6.16	97.7	-0.12
Hydrogen carbonate	mg/l	213 ± 1.3	214 ± 21	4.26	100	0.02
Magnesium	mg/l	14.9 ± 0.135	15.4 ± 1.5	0.598	103	0.15
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	14.4 ± 1.4	0.672	107	0.34
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.188 ± 0.019	0.0102	97.3	-0.14
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.112 ± 0.011	0.0174	103	0.13
pH-value	-	8.07 ± 0.019	8.07 ± 0.2	0.161	100	0.00
Potassium	mg/l	2.18 ± 0.0235	2.21 ± 0.22	0.113	101	0.07
Sodium	mg/l	14.3 ± 0.118	14 ± 1.4	0.485	98.2	-0.09
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.2 ± 3	0.973	102	0.12
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.963 ± 0.193	0.0694	104	0.10
Total hardness	mmol/l	2.14 ± 0.0185	2.27 ± 0.23	0.0643	106	0.27
Total nitrogen	mg/l	3.42 ± 0.0995	3.38 ± 0.34	0.284	98.9	-0.06

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.8 ± 0.28	0.263	107	0.31



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.118 ± 0.069	0.0891	94.1	-0.78
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

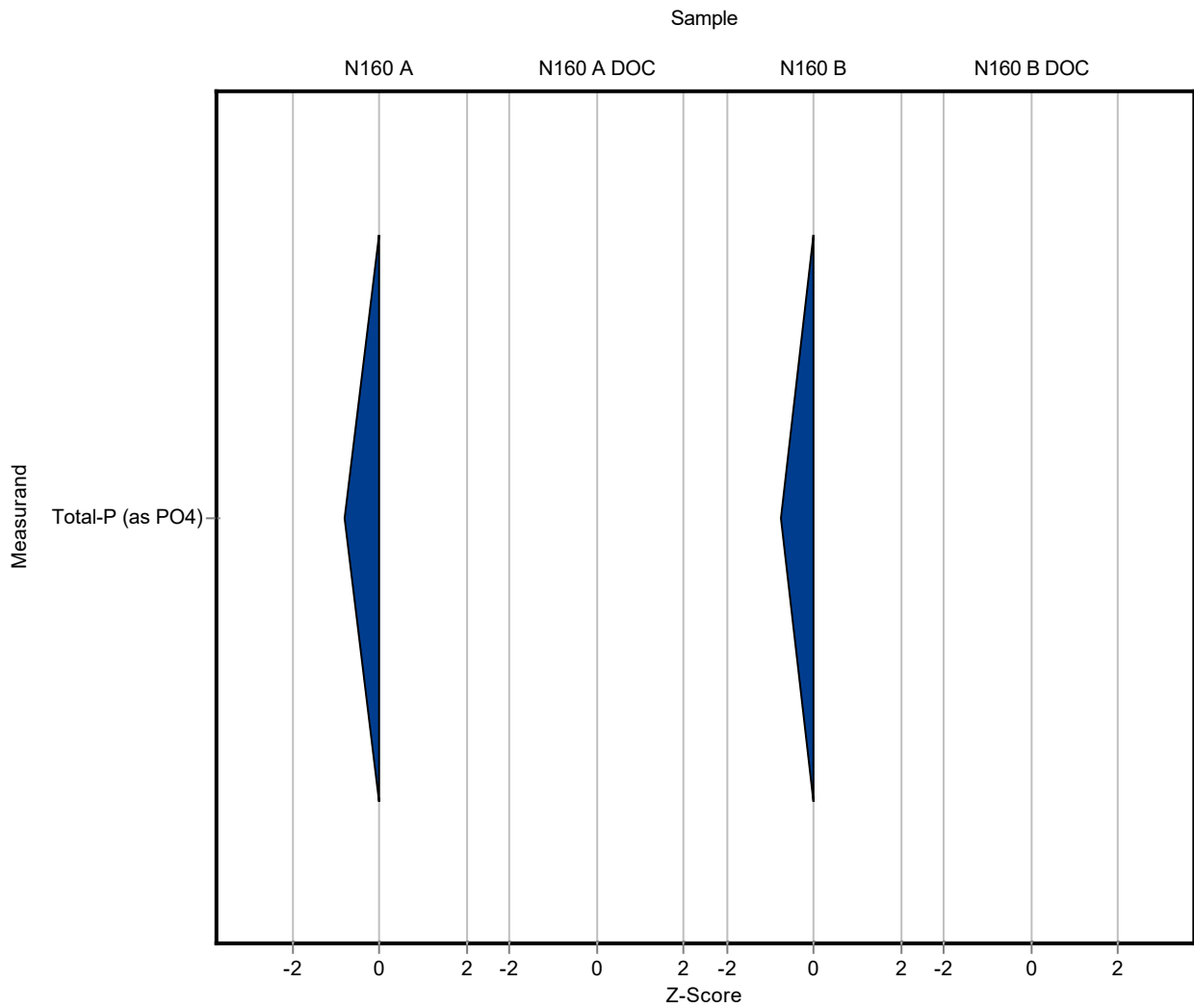
Summary of results Nutrients/Major Ions N160

Labcode: LC0037

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.873 ± 0.053	0.0694	94.3	-0.76
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.118 ± 0.069	0.0891	94.1	-0.50
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

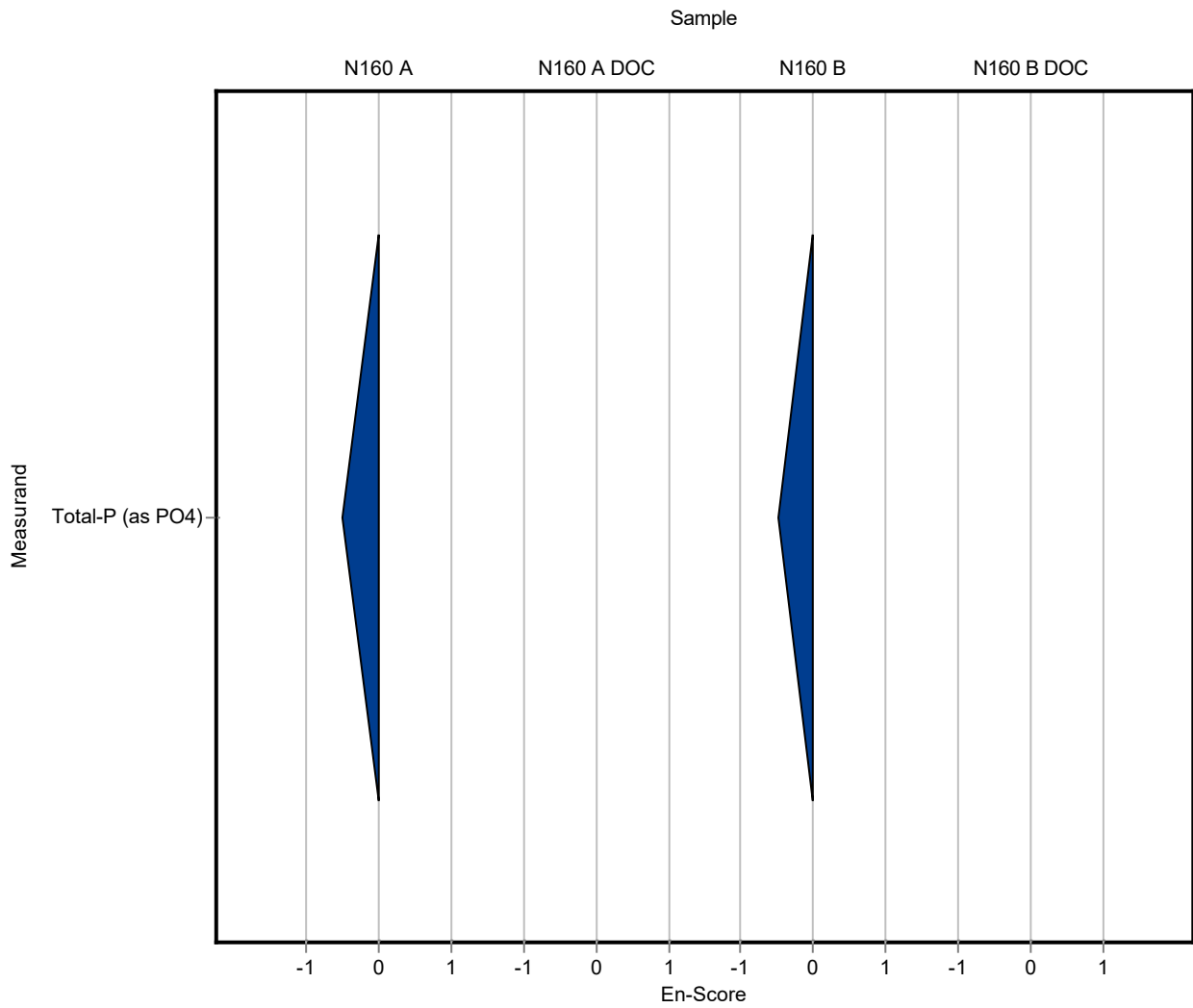
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.873 ± 0.053	0.0694	94.3	-0.49
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0801 ± 0.00336	0.00952	101	0.08
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	147 ± 5	4.42	103	1.00
Chloride	mg/l	72.1 ± 0.47	73.2 ± 4.49	2.89	101	0.36
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1060 ± 26.1	13.6	101	0.76
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	36.7 ± 2.26	1.41	104	1.03
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.9 ± 0.335	1.19	100	0.10
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.288 ± 0.019	0.0153	99.9	-0.03
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0621 ± 0.00472	0.00987	101	0.04
pH-value	-	7.69 ± 0.0265	7.62 ± 0.12	0.154	99.1	-0.43
Potassium	mg/l	5.32 ± 0.0504	5.45 ± 2.59	0.277	102	0.46
Sodium	mg/l	31.6 ± 0.245	31.5 ± 5.76	1.07	99.6	-0.11
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.9 ± 4.69	1.78	102	0.58
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.98 ± 0.178	0.208	95.2	-0.48

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.27 ± 0.0113	0.0341	94.9	-0.42
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	61.5 ± 2.1	1.9	100	0.10

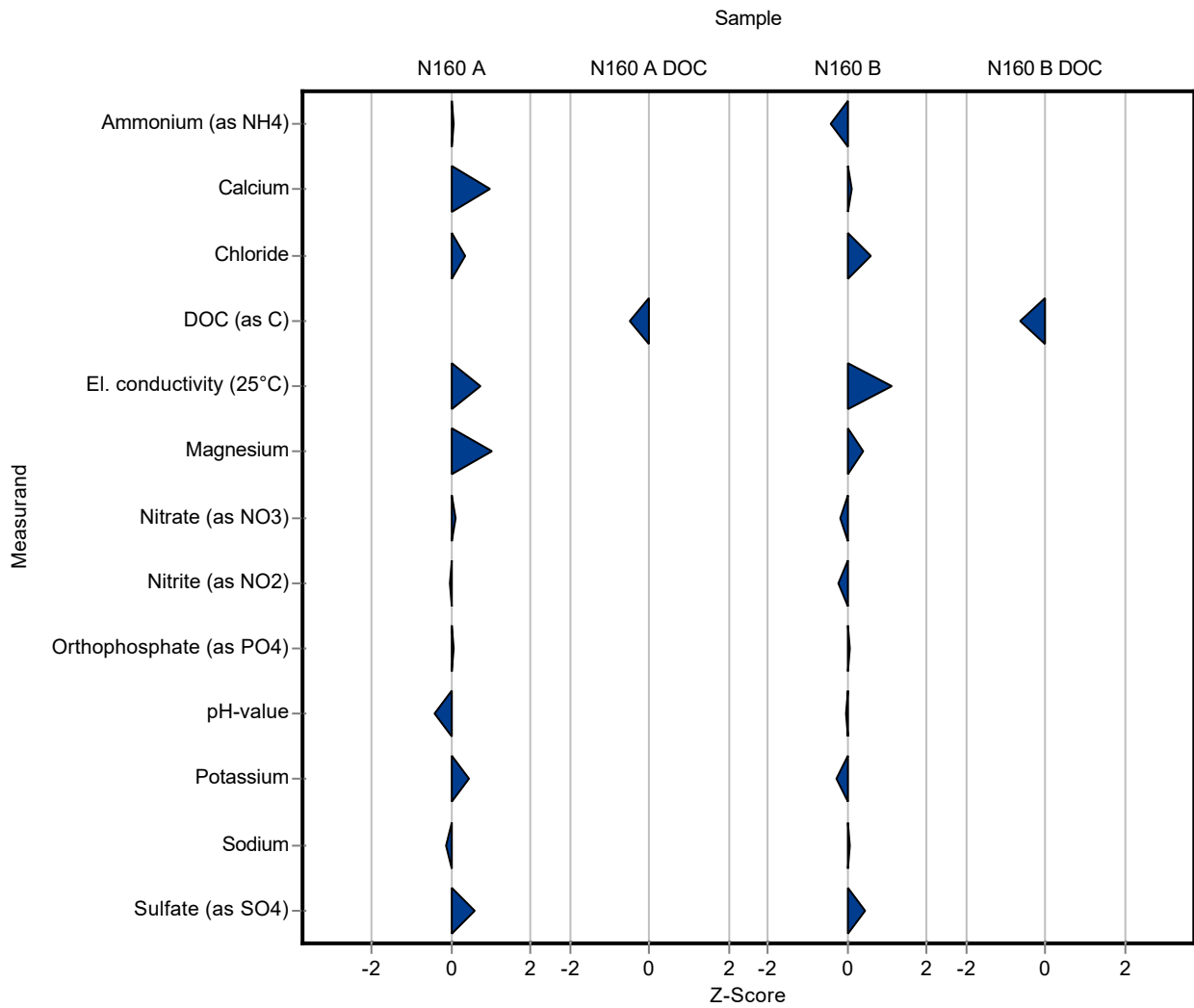
Summary of results Nutrients/Major Ions N160

Labcode: LC0038

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.8 ± 1.4	0.891	102	0.58
El. conductivity (25°C)	µS/cm	474 ± 1.13	481 ± 11.8	6.16	101	1.11
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.2 ± 0.93	0.598	102	0.42
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.3 ± 0.186	0.672	99	-0.20
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.191 ± 0.0126	0.0102	98.9	-0.21
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.11 ± 0.00836	0.0174	101	0.06
pH-value	-	8.07 ± 0.019	8.06 ± 0.12	0.161	99.9	-0.06
Potassium	mg/l	2.18 ± 0.0235	2.15 ± 1.02	0.113	98.6	-0.27
Sodium	mg/l	14.3 ± 0.118	14.3 ± 2.61	0.485	100	0.08
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.9 ± 2.55	0.973	101	0.43
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.46 ± 0.221	0.263	93.7	-0.64



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0801 ± 0.00336	0.00952	101	0.10
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	147 ± 5	4.42	103	0.44
Chloride	mg/l	72.1 ± 0.47	73.2 ± 4.49	2.89	101	0.12
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1060 ± 26.1	13.6	101	0.20
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	36.7 ± 2.26	1.41	104	0.32
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.9 ± 0.335	1.19	100	0.17
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.288 ± 0.019	0.0153	99.9	-0.01
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0621 ± 0.00472	0.00987	101	0.04
pH-value	-	7.69 ± 0.0265	7.62 ± 0.12	0.154	99.1	-0.27
Potassium	mg/l	5.32 ± 0.0504	5.45 ± 2.59	0.277	102	0.02
Sodium	mg/l	31.6 ± 0.245	31.5 ± 5.76	1.07	99.6	-0.01
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.9 ± 4.69	1.78	102	0.11
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.98 ± 0.178	0.208	95.2	-0.28

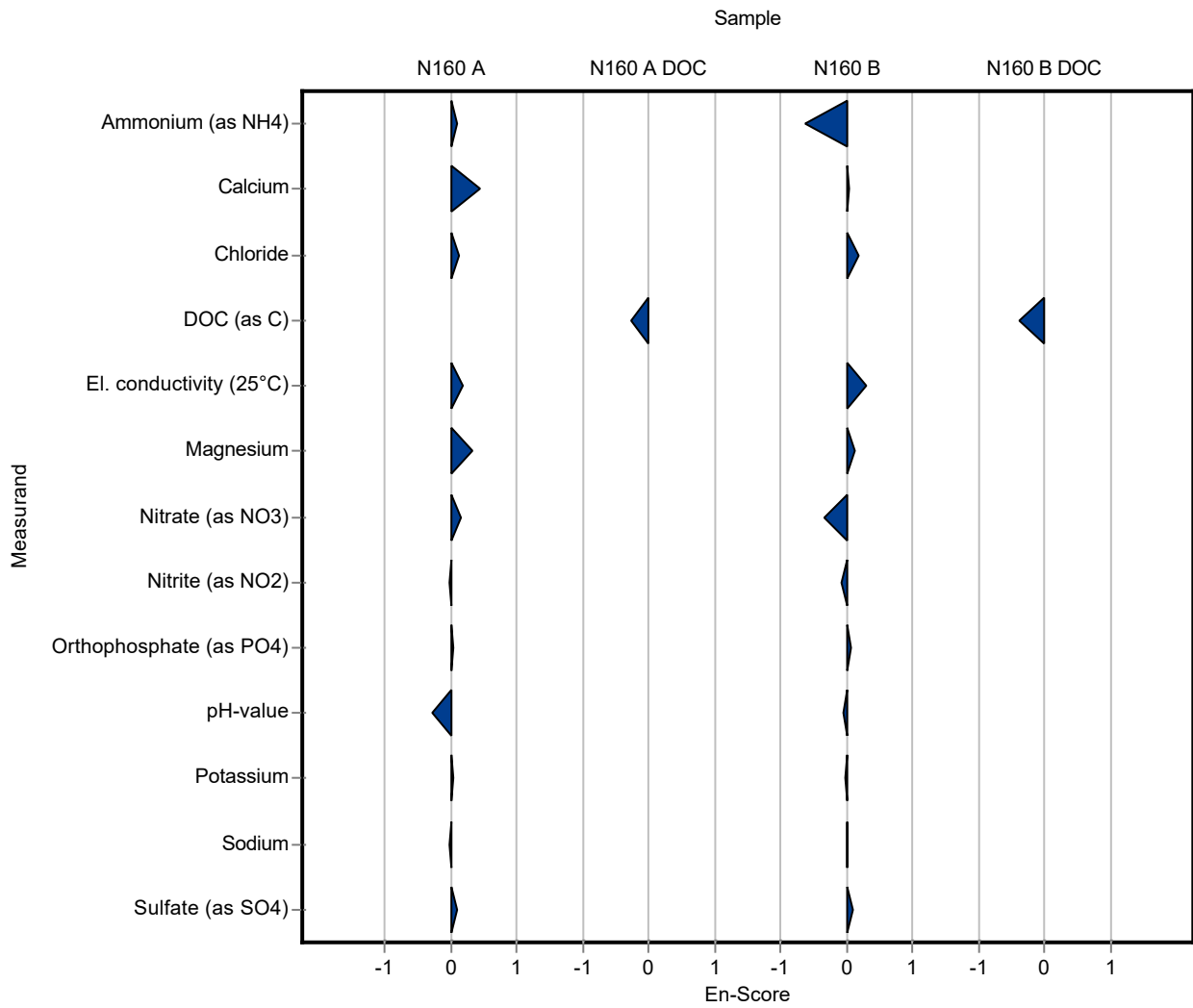
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.27 ± 0.0113	0.0341	94.9	-0.63
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61.5 ± 2.1	1.9	100	0.05
Chloride	mg/l	22.3 ± 0.157	22.8 ± 1.4	0.891	102	0.19
El. conductivity (25°C)	µS/cm	474 ± 1.13	481 ± 11.8	6.16	101	0.29
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.2 ± 0.93	0.598	102	0.13
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.3 ± 0.186	0.672	99	-0.35
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.191 ± 0.0126	0.0102	98.9	-0.09
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.11 ± 0.00836	0.0174	101	0.06
pH-value	-	8.07 ± 0.019	8.06 ± 0.12	0.161	99.9	-0.04
Potassium	mg/l	2.18 ± 0.0235	2.15 ± 1.02	0.113	98.6	-0.01
Sodium	mg/l	14.3 ± 0.118	14.3 ± 2.61	0.485	100	0.01
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.9 ± 2.55	0.973	101	0.08
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.46 ± 0.221	0.263	93.7	-0.37



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.94 ± 0.79	0.159	99.9	-0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0724 ± 0.0039	0.00952	91.2	-0.73
Boron	mg/l	0.0747 ± 0.00166	0.0717 ± 0.02	0.00822	96	-0.37
Calcium	mg/l	143 ± 1.42	137 ± 28	4.42	96.1	-1.26
Chloride	mg/l	72.1 ± 0.47	71.8 ± 7.2	2.89	99.5	-0.12
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1061 ± 10	13.6	101	0.83
Hydrogen carbonate	mg/l	483 ± 1.82	484.5 ± 48	9.66	100	0.16
Magnesium	mg/l	35.3 ± 0.274	35 ± 7	1.41	99.3	-0.18
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.3 ± 2.3	1.19	98	-0.41
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.2755 ± 0.0169	0.0153	95.5	-0.84
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.056 ± 0.004	0.00987	90.8	-0.57
pH-value	-	7.69 ± 0.0265	7.7 ± 0.1	0.154	100	0.09
Potassium	mg/l	5.32 ± 0.0504	5.33 ± 1.1	0.277	100	0.02
Sodium	mg/l	31.6 ± 0.245	31.1 ± 5	1.07	98.4	-0.48
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.3 ± 5.4	1.78	101	0.25
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.163 ± 0.081	0.0891	97.9	-0.28
Total hardness	mmol/l	5 ± 0.0376	4.86 ± 0.5	0.15	97.1	-0.96
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.45 ± 0.25	0.208	118	1.78

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.51 ± 0.35	0.0704	99.8	-0.11
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.2196 ± 0.0119	0.0341	77.2	-1.90
Boron	mg/l	0.0149 ± 0.000559	0.0145 ± 0.004	0.00164	97.3	-0.24
Calcium	mg/l	61.3 ± 0.649	58.9 ± 12	1.9	96.1	-1.27

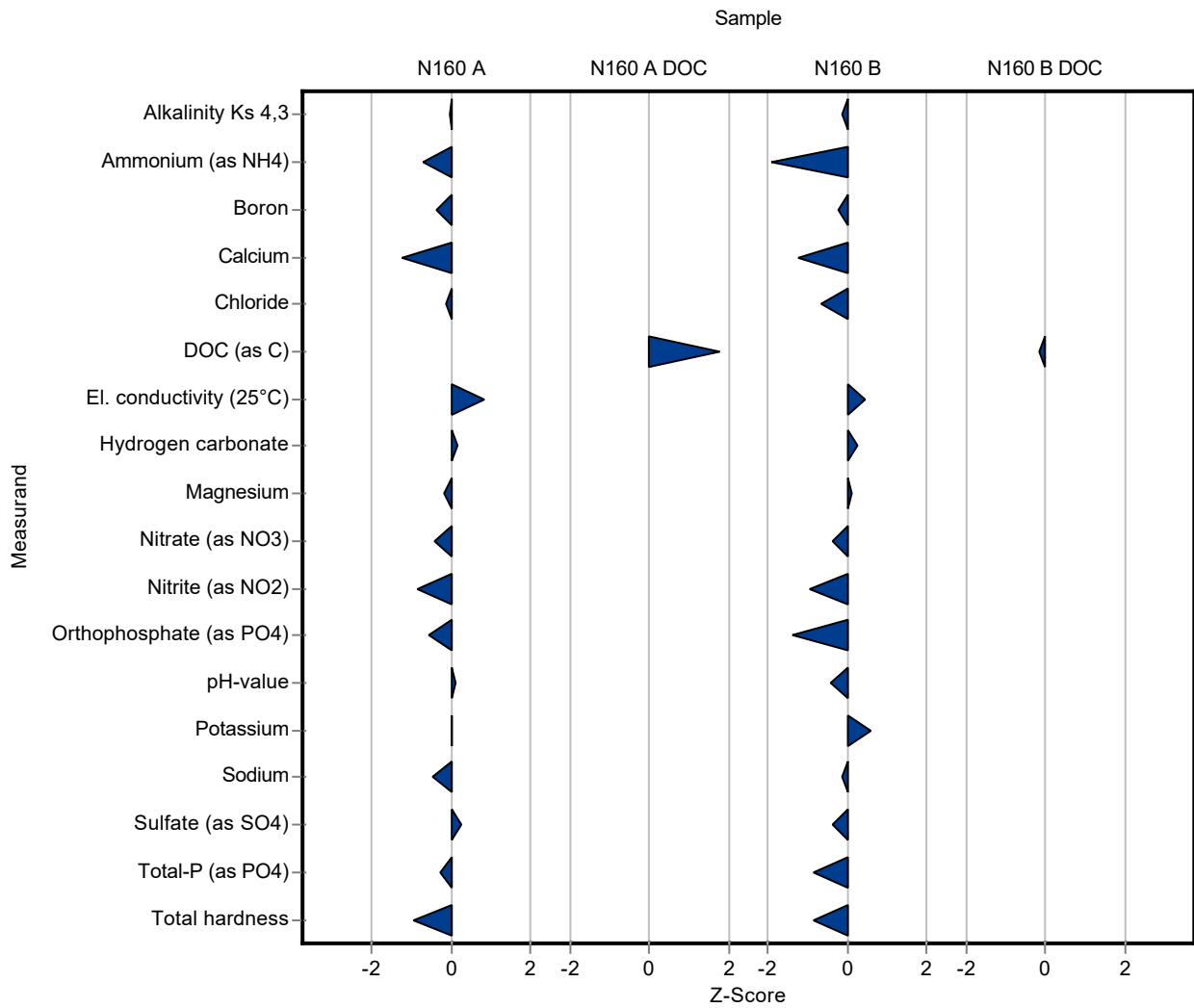
Summary of results Nutrients/Major Ions N160

Labcode: LC0039

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.7 ± 2.2	0.891	97.4	-0.65
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 10	6.16	101	0.47
Hydrogen carbonate	mg/l	213 ± 1.3	214.2 ± 21	4.26	101	0.27
Magnesium	mg/l	14.9 ± 0.135	15 ± 3	0.598	100	0.08
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.2 ± 1.3	0.672	98.2	-0.35
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.1835 ± 0.0112	0.0102	95	-0.94
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.085 ± 0.006	0.0174	78	-1.37
pH-value	-	8.07 ± 0.019	8 ± 0.1	0.161	99.1	-0.43
Potassium	mg/l	2.18 ± 0.0235	2.25 ± 0.5	0.113	103	0.61
Sodium	mg/l	14.3 ± 0.118	14.2 ± 2.2	0.485	99.6	-0.13
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.1 ± 2.9	0.973	98.7	-0.40
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.867 ± 0.06	0.0694	93.7	-0.84
Total hardness	mmol/l	2.14 ± 0.0185	2.09 ± 0.2	0.0643	97.4	-0.85
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.58 ± 0.26	0.263	98.2	-0.18



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.94 ± 0.79	0.159	99.9	0.00
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0724 ± 0.0039	0.00952	91.2	-0.84
Boron	mg/l	0.0747 ± 0.00166	0.0717 ± 0.02	0.00822	96	-0.08
Calcium	mg/l	143 ± 1.42	137 ± 28	4.42	96.1	-0.10
Chloride	mg/l	72.1 ± 0.47	71.8 ± 7.2	2.89	99.5	-0.02
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1061 ± 10	13.6	101	0.56
Hydrogen carbonate	mg/l	483 ± 1.82	484.5 ± 48	9.66	100	0.02
Magnesium	mg/l	35.3 ± 0.274	35 ± 7	1.41	99.3	-0.02
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.3 ± 2.3	1.19	98	-0.10
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.2755 ± 0.0169	0.0153	95.5	-0.38
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.056 ± 0.004	0.00987	90.8	-0.66
pH-value	-	7.69 ± 0.0265	7.7 ± 0.1	0.154	100	0.07
Potassium	mg/l	5.32 ± 0.0504	5.33 ± 1.1	0.277	100	0.00
Sodium	mg/l	31.6 ± 0.245	31.1 ± 5	1.07	98.4	-0.05
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.3 ± 5.4	1.78	101	0.04
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.163 ± 0.081	0.0891	97.9	-0.15
Total hardness	mmol/l	5 ± 0.0376	4.86 ± 0.5	0.15	97.1	-0.14
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.45 ± 0.25	0.208	118	0.73

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.51 ± 0.35	0.0704	99.8	-0.01
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.2196 ± 0.0119	0.0341	77.2	-2.67
Boron	mg/l	0.0149 ± 0.000559	0.0145 ± 0.004	0.00164	97.3	-0.05

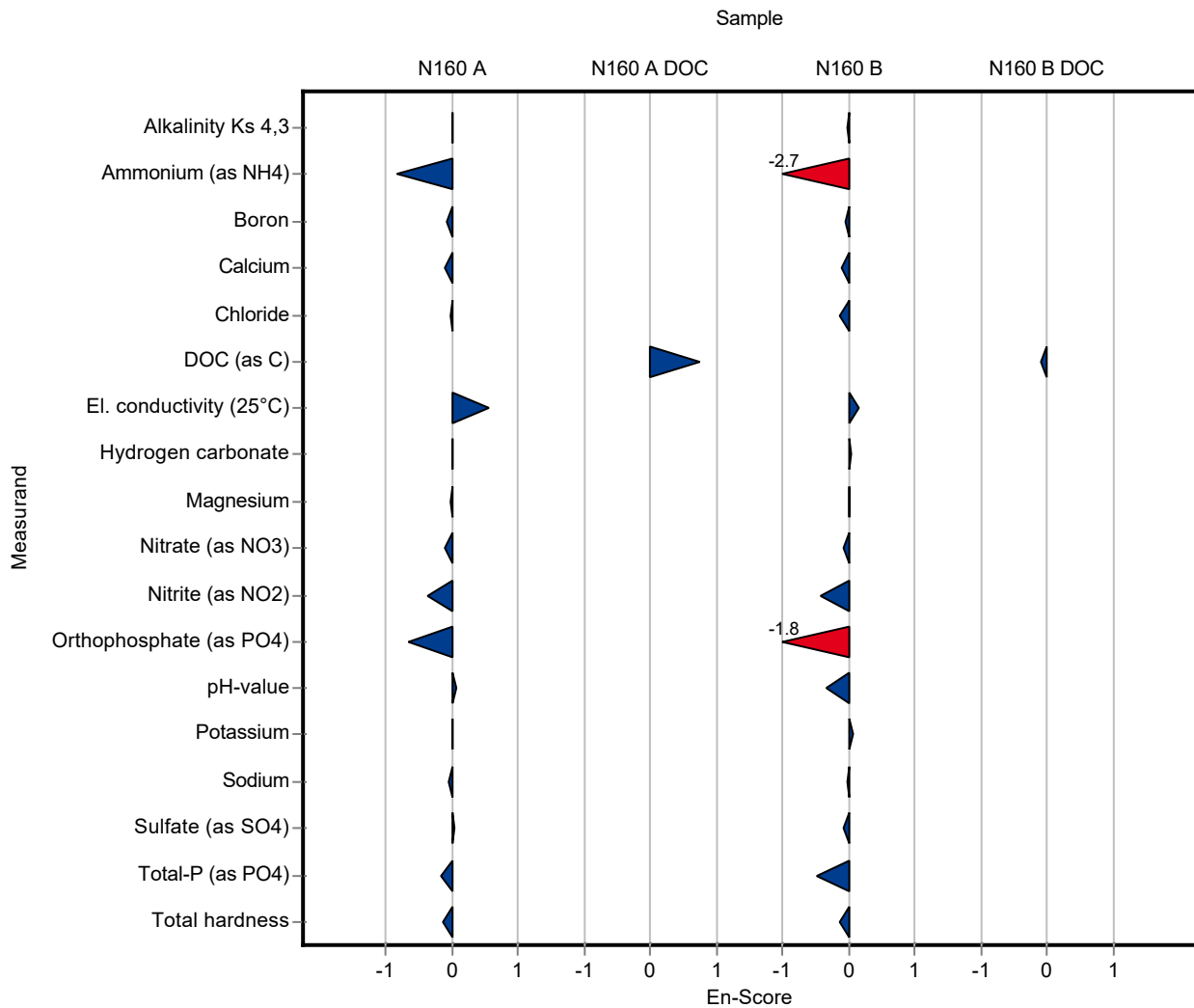
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0039

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	58.9 ± 12	1.9	96.1	-0.10
Chloride	mg/l	22.3 ± 0.157	21.7 ± 2.2	0.891	97.4	-0.13
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 10	6.16	101	0.14
Hydrogen carbonate	mg/l	213 ± 1.3	214.2 ± 21	4.26	101	0.03
Magnesium	mg/l	14.9 ± 0.135	15 ± 3	0.598	100	0.01
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.2 ± 1.3	0.672	98.2	-0.09
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.1835 ± 0.0112	0.0102	95	-0.43
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.085 ± 0.006	0.0174	78	-1.81
pH-value	-	8.07 ± 0.019	8 ± 0.1	0.161	99.1	-0.35
Potassium	mg/l	2.18 ± 0.0235	2.25 ± 0.5	0.113	103	0.07
Sodium	mg/l	14.3 ± 0.118	14.2 ± 2.2	0.485	99.6	-0.01
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.1 ± 2.9	0.973	98.7	-0.07
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.867 ± 0.06	0.0694	93.7	-0.48
Total hardness	mmol/l	2.14 ± 0.0185	2.09 ± 0.2	0.0643	97.4	-0.14
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.58 ± 0.26	0.263	98.2	-0.09



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.04 ± 0.24	0.159	101	0.60
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0715 ± 0.001	0.00952	90.1	-0.82
Boron	mg/l	0.0747 ± 0.00166	0.0745 ± 0.002	0.00822	99.7	-0.03
Calcium	mg/l	143 ± 1.42	147 ± 6.8	4.42	103	1.00
Chloride	mg/l	72.1 ± 0.47	73 ± 0.76	2.89	101	0.29
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1049 ± 13	13.6	99.9	-0.05
Hydrogen carbonate	mg/l	483 ± 1.82	487 ± 0.58	9.66	101	0.42
Magnesium	mg/l	35.3 ± 0.274	35 ± 0.36	1.41	99.3	-0.18
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.9 ± 0.25	1.19	100	0.10
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.296 ± 0.002	0.0153	103	0.50
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0457 ± 0.001	0.00987	74.1	-1.62
pH-value	-	7.69 ± 0.0265	7.85 ± 0.1	0.154	102	1.07
Potassium	mg/l	5.32 ± 0.0504	5.35 ± 0.015	0.277	100	0.09
Sodium	mg/l	31.6 ± 0.245	31.5 ± 0.99	1.07	99.6	-0.11
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.1 ± 0.46	1.78	102	0.70
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.12 ± 0.019	0.0891	94.3	-0.76
Total hardness	mmol/l	5 ± 0.0376	5.12 ± 0.18	0.15	102	0.77
Total nitrogen	mg/l	5.67 ± 0.147	5.34 ± 0.031	0.47	94.3	-0.69

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.22 ± 0.051	0.208	107	0.67

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.57 ± 0.11	0.0704	101	0.74
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.269 ± 0.004	0.0341	94.5	-0.45
Boron	mg/l	0.0149 ± 0.000559	0.0163 ± 0.001	0.00164	109	0.85
Calcium	mg/l	61.3 ± 0.649	62.9 ± 0.7	1.9	103	0.84

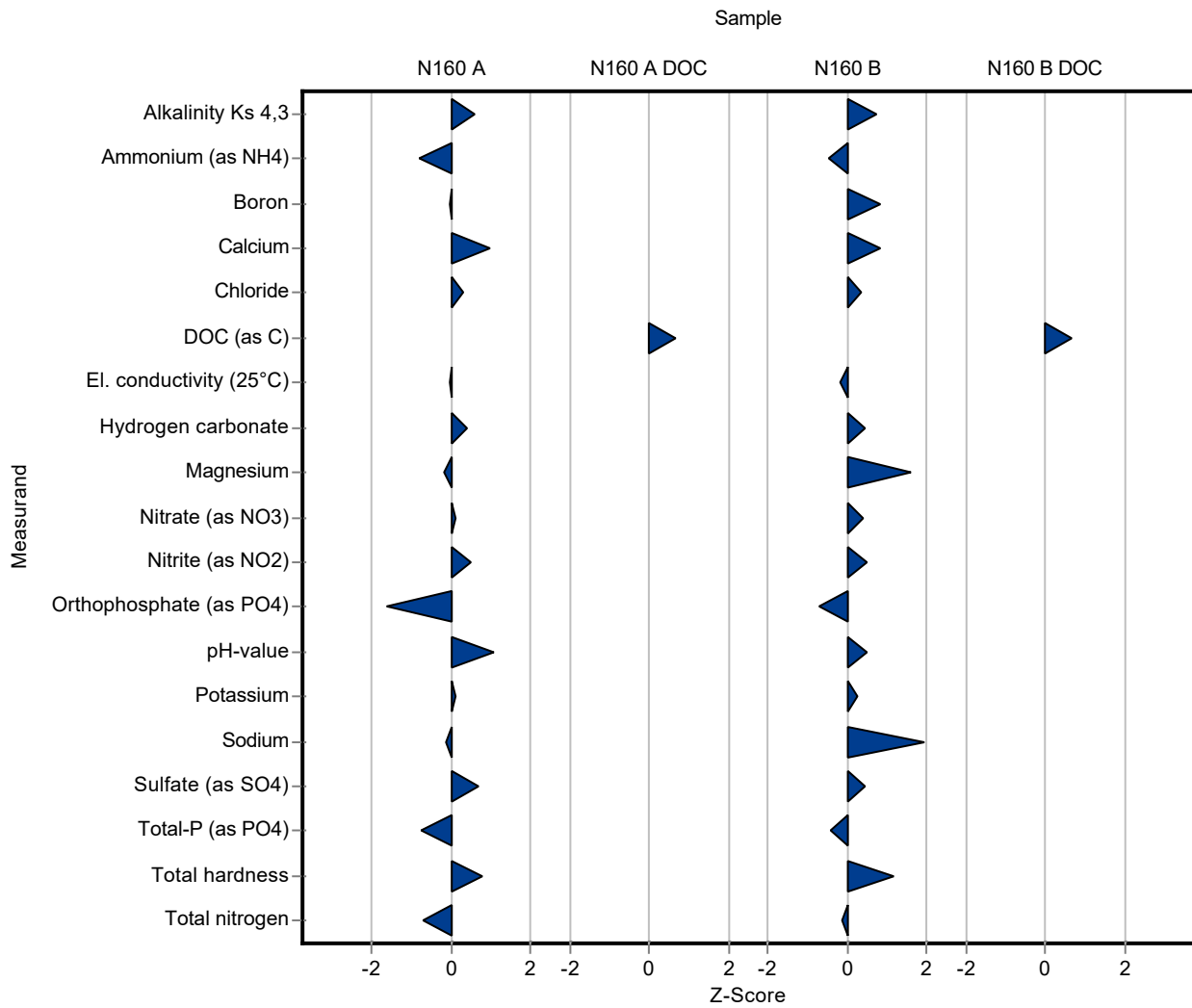
Summary of results Nutrients/Major Ions N160

Labcode: LC0040

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.6 ± 0.23	0.891	101	0.36
El. conductivity (25°C)	µS/cm	474 ± 1.13	473 ± 6	6.16	99.8	-0.18
Hydrogen carbonate	mg/l	213 ± 1.3	215 ± 8	4.26	101	0.46
Magnesium	mg/l	14.9 ± 0.135	15.9 ± 0.3	0.598	106	1.59
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.7 ± 0.35	0.672	102	0.39
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.198 ± 0.001	0.0102	103	0.47
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.0966 ± 0.001	0.0174	88.7	-0.71
pH-value	-	8.07 ± 0.019	8.15 ± 0.1	0.161	101	0.50
Potassium	mg/l	2.18 ± 0.0235	2.21 ± 0.006	0.113	101	0.26
Sodium	mg/l	14.3 ± 0.118	15.2 ± 0.53	0.485	107	1.94
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.9 ± 0.3	0.973	101	0.43
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.897 ± 0.033	0.0694	96.9	-0.41
Total hardness	mmol/l	2.14 ± 0.0185	2.22 ± 0.021	0.0643	104	1.17
Total nitrogen	mg/l	3.42 ± 0.0995	3.38 ± 0.061	0.284	98.9	-0.14

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.8 ± 0.046	0.263	107	0.66



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.04 ± 0.24	0.159	101	0.20
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0715 ± 0.001	0.00952	90.1	-2.36
Boron	mg/l	0.0747 ± 0.00166	0.0745 ± 0.002	0.00822	99.7	-0.05
Calcium	mg/l	143 ± 1.42	147 ± 6.8	4.42	103	0.32
Chloride	mg/l	72.1 ± 0.47	73 ± 0.76	2.89	101	0.54
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1049 ± 13	13.6	99.9	-0.03
Hydrogen carbonate	mg/l	483 ± 1.82	487 ± 0.58	9.66	101	1.88
Magnesium	mg/l	35.3 ± 0.274	35 ± 0.36	1.41	99.3	-0.33
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.9 ± 0.25	1.19	100	0.21
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.296 ± 0.002	0.0153	103	1.41
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0457 ± 0.001	0.00987	74.1	-4.19
pH-value	-	7.69 ± 0.0265	7.85 ± 0.1	0.154	102	0.81
Potassium	mg/l	5.32 ± 0.0504	5.35 ± 0.015	0.277	100	0.45
Sodium	mg/l	31.6 ± 0.245	31.5 ± 0.99	1.07	99.6	-0.06
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.1 ± 0.46	1.78	102	1.23
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.12 ± 0.019	0.0891	94.3	-1.61
Total hardness	mmol/l	5 ± 0.0376	5.12 ± 0.18	0.15	102	0.32
Total nitrogen	mg/l	5.67 ± 0.147	5.34 ± 0.031	0.47	94.3	-2.03

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.22 ± 0.051	0.208	107	1.19

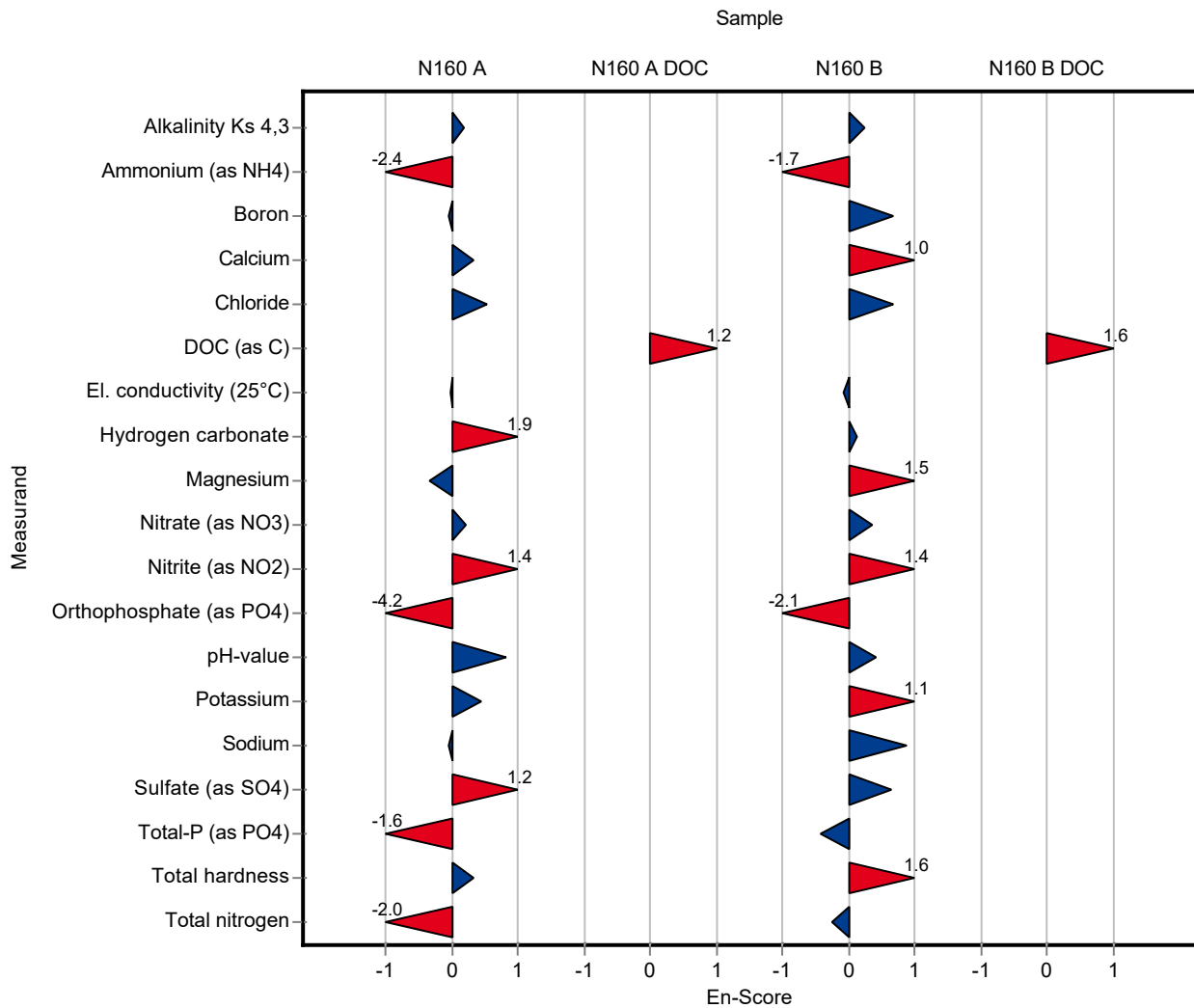
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.57 ± 0.11	0.0704	101	0.24
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.269 ± 0.004	0.0341	94.5	-1.66
Boron	mg/l	0.0149 ± 0.000559	0.0163 ± 0.001	0.00164	109	0.67

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	62.9 ± 0.7	1.9	103	1.03
Chloride	mg/l	22.3 ± 0.157	22.6 ± 0.23	0.891	101	0.66
El. conductivity (25°C)	µS/cm	474 ± 1.13	473 ± 6	6.16	99.8	-0.09
Hydrogen carbonate	mg/l	213 ± 1.3	215 ± 8	4.26	101	0.12
Magnesium	mg/l	14.9 ± 0.135	15.9 ± 0.3	0.598	106	1.55
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.7 ± 0.35	0.672	102	0.37
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.198 ± 0.001	0.0102	103	1.43
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.0966 ± 0.001	0.0174	88.7	-2.11
pH-value	-	8.07 ± 0.019	8.15 ± 0.1	0.161	101	0.40
Potassium	mg/l	2.18 ± 0.0235	2.21 ± 0.006	0.113	101	1.12
Sodium	mg/l	14.3 ± 0.118	15.2 ± 0.53	0.485	107	0.88
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.9 ± 0.3	0.973	101	0.66
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.897 ± 0.033	0.0694	96.9	-0.42
Total hardness	mmol/l	2.14 ± 0.0185	2.22 ± 0.021	0.0643	104	1.64
Total nitrogen	mg/l	3.42 ± 0.0995	3.38 ± 0.061	0.284	98.9	-0.25

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.8 ± 0.046	0.263	107	1.56



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.9 ± 0.32	0.159	99.4	-0.28
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.068 ± 0.018	0.00952	85.7	-1.19
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	145 ± 14.2	4.42	102	0.55
Chloride	mg/l	72.1 ± 0.47	73.3 ± 3.5	2.89	102	0.40
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1066 ± 10	13.6	102	1.20
Hydrogen carbonate	mg/l	483 ± 1.82	482 ± 18	9.66	99.8	-0.10
Magnesium	mg/l	35.3 ± 0.274	35.8 ± 3.9	1.41	102	0.39
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.8 ± 1.1	1.19	100	0.01
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.281 ± 0.014	0.0153	97.4	-0.48
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.065 ± 0.003	0.00987	105	0.34
pH-value	-	7.69 ± 0.0265	7.53 ± 0.02	0.154	98	-1.02
Potassium	mg/l	5.32 ± 0.0504	5.39 ± 0.5	0.277	101	0.24
Sodium	mg/l	31.6 ± 0.245	31.8 ± 2.9	1.07	101	0.17
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.4 ± 2.3	1.78	101	0.30
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	5.08 ± 0.51	0.15	102	0.50
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.52 ± 0.14	0.0704	100	0.03
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.27 ± 0.016	0.0341	94.9	-0.42
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	62.2 ± 6.1	1.9	101	0.47

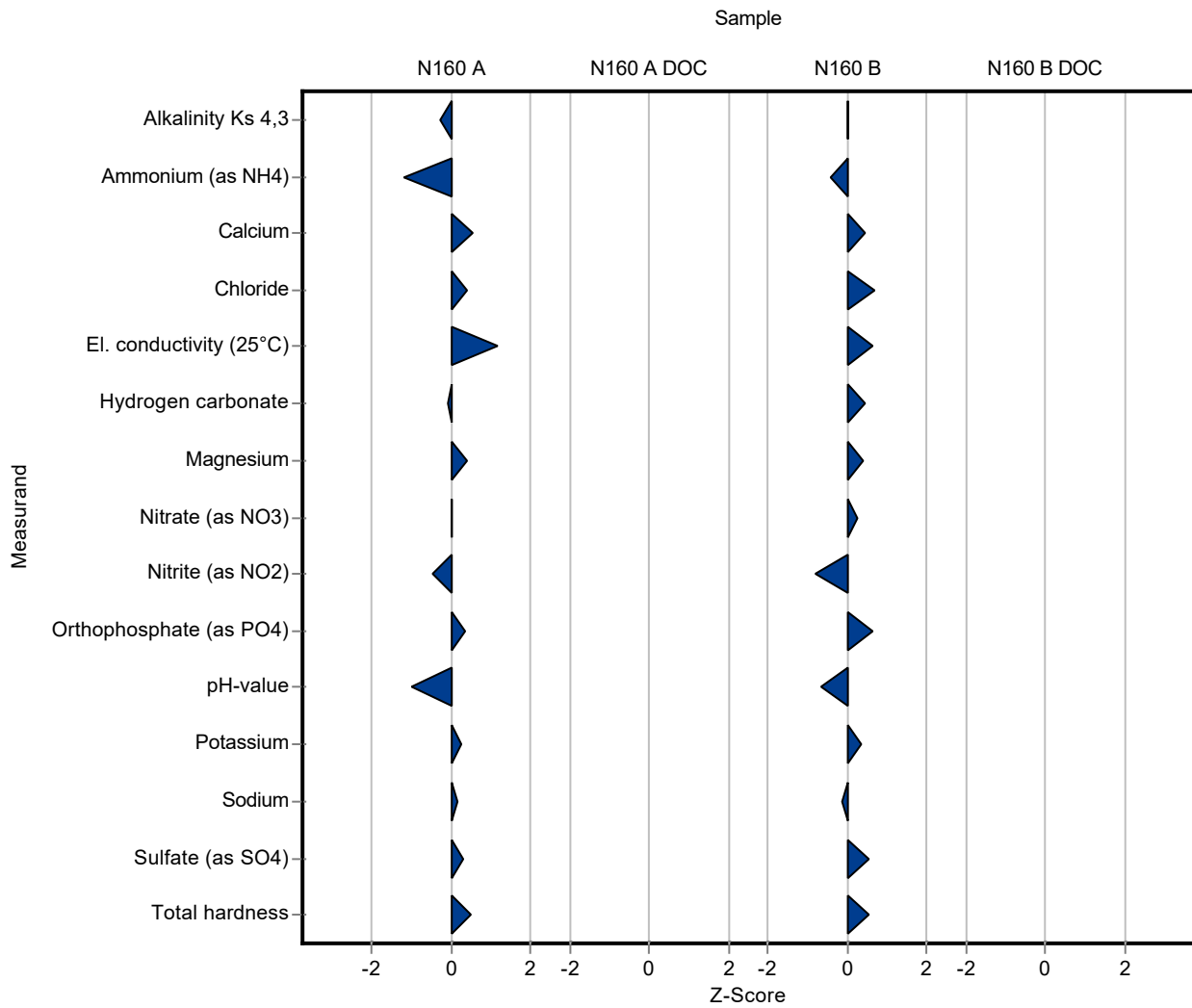
Summary of results Nutrients/Major Ions N160

Labcode: LC0041

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.9 ± 1.1	0.891	103	0.70
El. conductivity (25°C)	µS/cm	474 ± 1.13	478 ± 4	6.16	101	0.63
Hydrogen carbonate	mg/l	213 ± 1.3	215 ± 9	4.26	101	0.46
Magnesium	mg/l	14.9 ± 0.135	15.2 ± 1.7	0.598	102	0.42
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.6 ± 0.6	0.672	101	0.24
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.185 ± 0.009	0.0102	95.8	-0.80
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.12 ± 0.006	0.0174	110	0.63
pH-value	-	8.07 ± 0.019	7.96 ± 0.02	0.161	98.6	-0.68
Potassium	mg/l	2.18 ± 0.0235	2.22 ± 0.21	0.113	102	0.35
Sodium	mg/l	14.3 ± 0.118	14.2 ± 1.3	0.485	99.6	-0.13
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30 ± 1.3	0.973	102	0.53
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.18 ± 0.22	0.0643	102	0.55
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.9 ± 0.32	0.159	99.4	-0.07
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.068 ± 0.018	0.00952	85.7	-0.31
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	145 ± 14.2	4.42	102	0.09
Chloride	mg/l	72.1 ± 0.47	73.3 ± 3.5	2.89	102	0.16
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1066 ± 10	13.6	102	0.80
Hydrogen carbonate	mg/l	483 ± 1.82	482 ± 18	9.66	99.8	-0.03
Magnesium	mg/l	35.3 ± 0.274	35.8 ± 3.9	1.41	102	0.07
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.8 ± 1.1	1.19	100	0.01
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.281 ± 0.014	0.0153	97.4	-0.26
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.065 ± 0.003	0.00987	105	0.49
pH-value	-	7.69 ± 0.0265	7.53 ± 0.02	0.154	98	-3.25
Potassium	mg/l	5.32 ± 0.0504	5.39 ± 0.5	0.277	101	0.07
Sodium	mg/l	31.6 ± 0.245	31.8 ± 2.9	1.07	101	0.03
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.4 ± 2.3	1.78	101	0.12
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	5.08 ± 0.51	0.15	102	0.07
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.52 ± 0.14	0.0704	100	0.01
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.27 ± 0.016	0.0341	94.9	-0.45
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

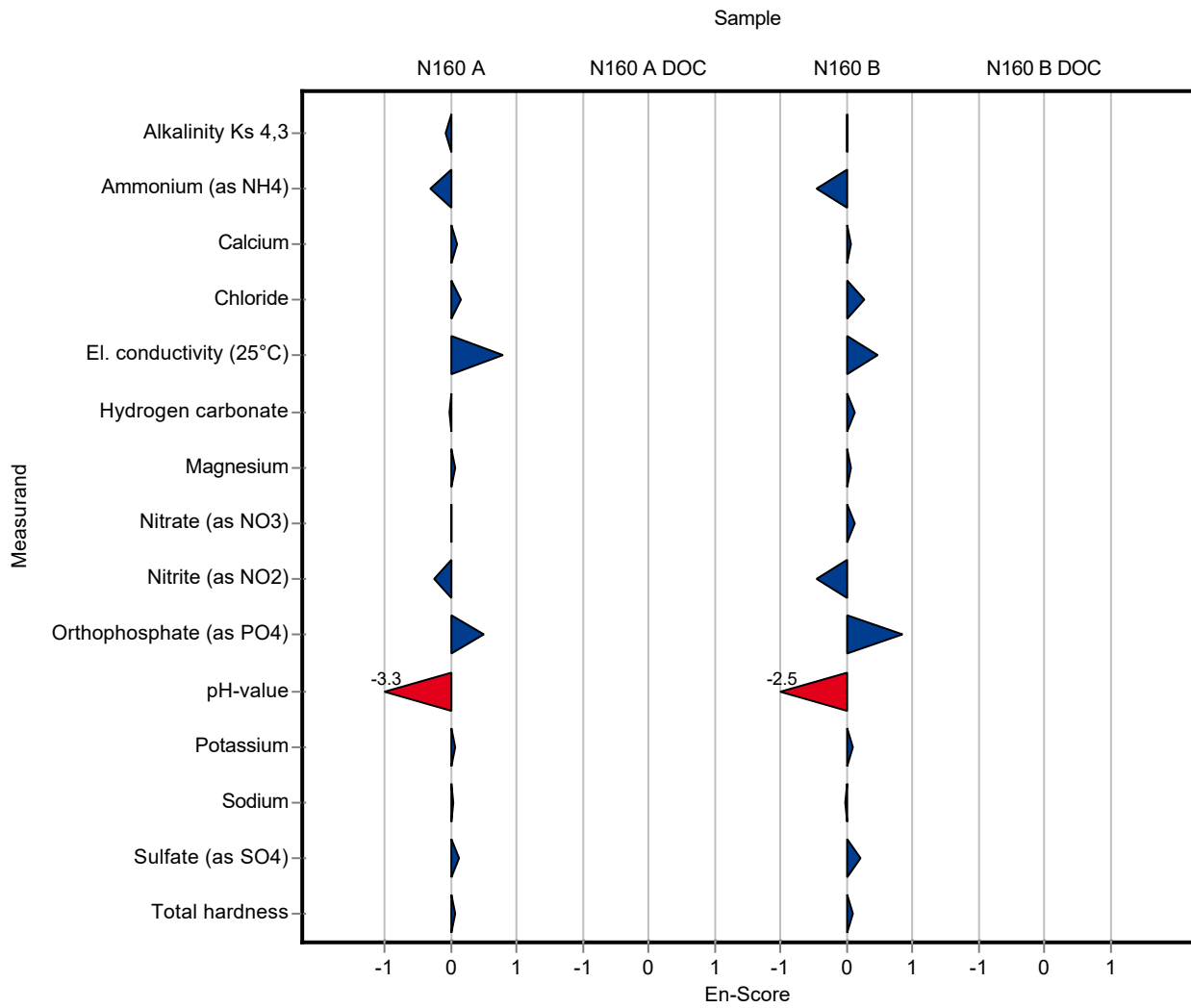
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0041

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	62.2 ± 6.1	1.9	101	0.07
Chloride	mg/l	22.3 ± 0.157	22.9 ± 1.1	0.891	103	0.28
El. conductivity (25°C)	µS/cm	474 ± 1.13	478 ± 4	6.16	101	0.48
Hydrogen carbonate	mg/l	213 ± 1.3	215 ± 9	4.26	101	0.11
Magnesium	mg/l	14.9 ± 0.135	15.2 ± 1.7	0.598	102	0.07
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.6 ± 0.6	0.672	101	0.13
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.185 ± 0.009	0.0102	95.8	-0.45
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.12 ± 0.006	0.0174	110	0.84
pH-value	-	8.07 ± 0.019	7.96 ± 0.02	0.161	98.6	-2.48
Potassium	mg/l	2.18 ± 0.0235	2.22 ± 0.21	0.113	102	0.09
Sodium	mg/l	14.3 ± 0.118	14.2 ± 1.3	0.485	99.6	-0.02
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30 ± 1.3	0.973	102	0.20
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.18 ± 0.22	0.0643	102	0.08
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.91 ± 0.025	0.159	99.6	-0.22
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.08 ± 0.01	0.00952	101	0.07
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	147 ± 2	4.42	103	1.00
Chloride	mg/l	72.1 ± 0.47	83 ± 1	2.89	115	3.76
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1043 ± 14	13.6	99.4	-0.49
Hydrogen carbonate	mg/l	483 ± 1.82	482 ± 10	9.66	99.8	-0.10
Magnesium	mg/l	35.3 ± 0.274	36.45 ± 0.4	1.41	103	0.85
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	26 ± 1	1.19	109	1.87
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.273 ± 0.01	0.0153	94.7	-1.01
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.68 ± 0.04	0.154	99.9	-0.04
Potassium	mg/l	5.32 ± 0.0504	5.22 ± 0.2	0.277	98.1	-0.38
Sodium	mg/l	31.6 ± 0.245	31.6 ± 1	1.07	100	-0.01
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	56.8 ± 1.5	1.78	105	1.65
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.36 ± 0.03	0.0891	114	1.93
Total hardness	mmol/l	5 ± 0.0376	4.884 ± 0.025	0.15	97.6	-0.80
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.52 ± 0.025	0.0704	100	0.03
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.26 ± 0.01	0.0341	91.4	-0.72
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	63.05 ± 2	1.9	103	0.92

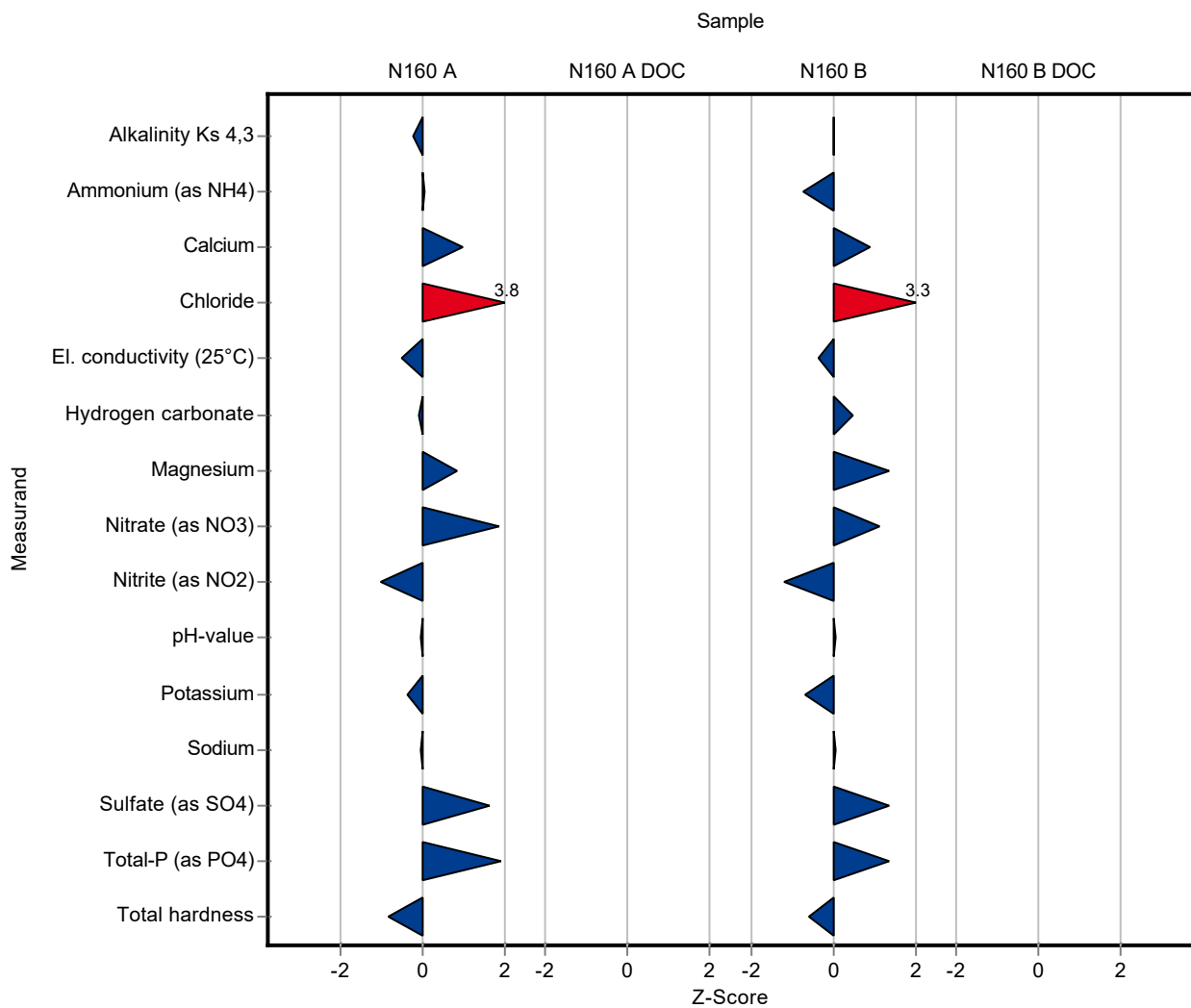
Summary of results Nutrients/Major Ions N160

Labcode: LC0042

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	25.2 ± 1	0.891	113	3.28
El. conductivity (25°C)	µS/cm	474 ± 1.13	472 ± 14	6.16	99.5	-0.35
Hydrogen carbonate	mg/l	213 ± 1.3	215 ± 10	4.26	101	0.46
Magnesium	mg/l	14.9 ± 0.135	15.75 ± 0.4	0.598	105	1.34
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	14.2 ± 1	0.672	106	1.13
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.181 ± 0.01	0.0102	93.7	-1.19
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.08 ± 0.04	0.161	100	0.06
Potassium	mg/l	2.18 ± 0.0235	2.1 ± 0.2	0.113	96.3	-0.71
Sodium	mg/l	14.3 ± 0.118	14.3 ± 1	0.485	100	0.08
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.8 ± 1.5	0.973	104	1.35
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.02 ± 0.03	0.0694	110	1.36
Total hardness	mmol/l	2.14 ± 0.0185	2.107 ± 0.025	0.0643	98.2	-0.59
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.91 ± 0.025	0.159	99.6	-0.62
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.08 ± 0.01	0.00952	101	0.03
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	147 ± 2	4.42	103	1.04
Chloride	mg/l	72.1 ± 0.47	83 ± 1	2.89	115	5.28
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1043 ± 14	13.6	99.4	-0.24
Hydrogen carbonate	mg/l	483 ± 1.82	482 ± 10	9.66	99.8	-0.05
Magnesium	mg/l	35.3 ± 0.274	36.45 ± 0.4	1.41	103	1.41
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	26 ± 1	1.19	109	1.10
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.273 ± 0.01	0.0153	94.7	-0.76
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.68 ± 0.04	0.154	99.9	-0.07
Potassium	mg/l	5.32 ± 0.0504	5.22 ± 0.2	0.277	98.1	-0.26
Sodium	mg/l	31.6 ± 0.245	31.6 ± 1	1.07	100	-0.01
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	56.8 ± 1.5	1.78	105	0.97
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.36 ± 0.03	0.0891	114	2.74
Total hardness	mmol/l	5 ± 0.0376	4.884 ± 0.025	0.15	97.6	-1.92
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.52 ± 0.025	0.0704	100	0.04
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.26 ± 0.01	0.0341	91.4	-1.19
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

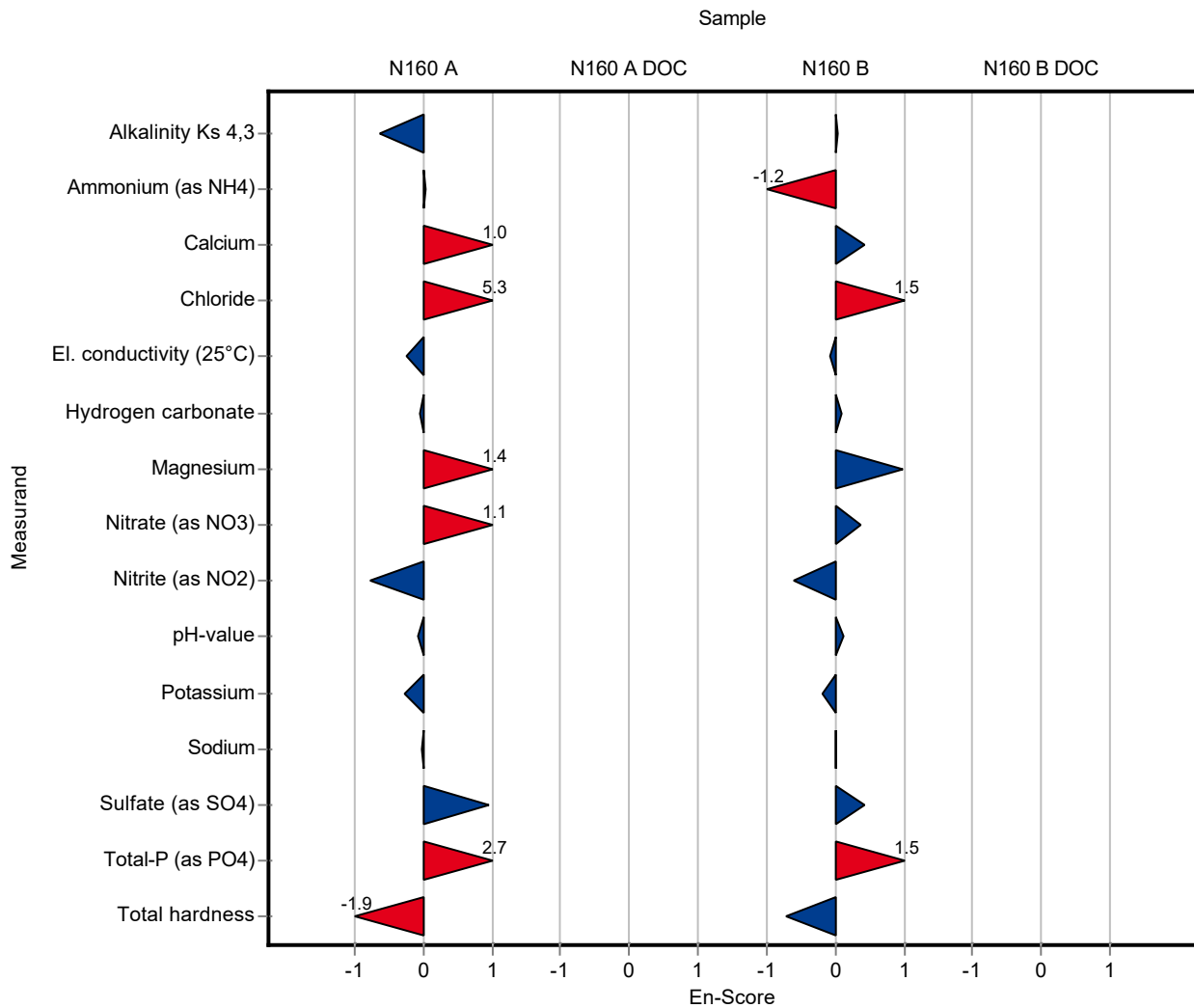
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0042

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	63.05 ± 2	1.9	103	0.43
Chloride	mg/l	22.3 ± 0.157	25.2 ± 1	0.891	113	1.46
El. conductivity (25°C)	µS/cm	474 ± 1.13	472 ± 14	6.16	99.5	-0.08
Hydrogen carbonate	mg/l	213 ± 1.3	215 ± 10	4.26	101	0.10
Magnesium	mg/l	14.9 ± 0.135	15.75 ± 0.4	0.598	105	0.99
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	14.2 ± 1	0.672	106	0.38
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.181 ± 0.01	0.0102	93.7	-0.60
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.08 ± 0.04	0.161	100	0.12
Potassium	mg/l	2.18 ± 0.0235	2.1 ± 0.2	0.113	96.3	-0.20
Sodium	mg/l	14.3 ± 0.118	14.3 ± 1	0.485	100	0.02
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.8 ± 1.5	0.973	104	0.44
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.02 ± 0.03	0.0694	110	1.53
Total hardness	mmol/l	2.14 ± 0.0185	2.107 ± 0.025	0.0643	98.2	-0.71
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.867 ± 0.36	0.159	99	-0.49
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1063 ± 14.35	13.6	101	0.98
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.69 ± 0.01	0.154	100	0.02
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.479 ± 0.159	0.0704	98.9	-0.55
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

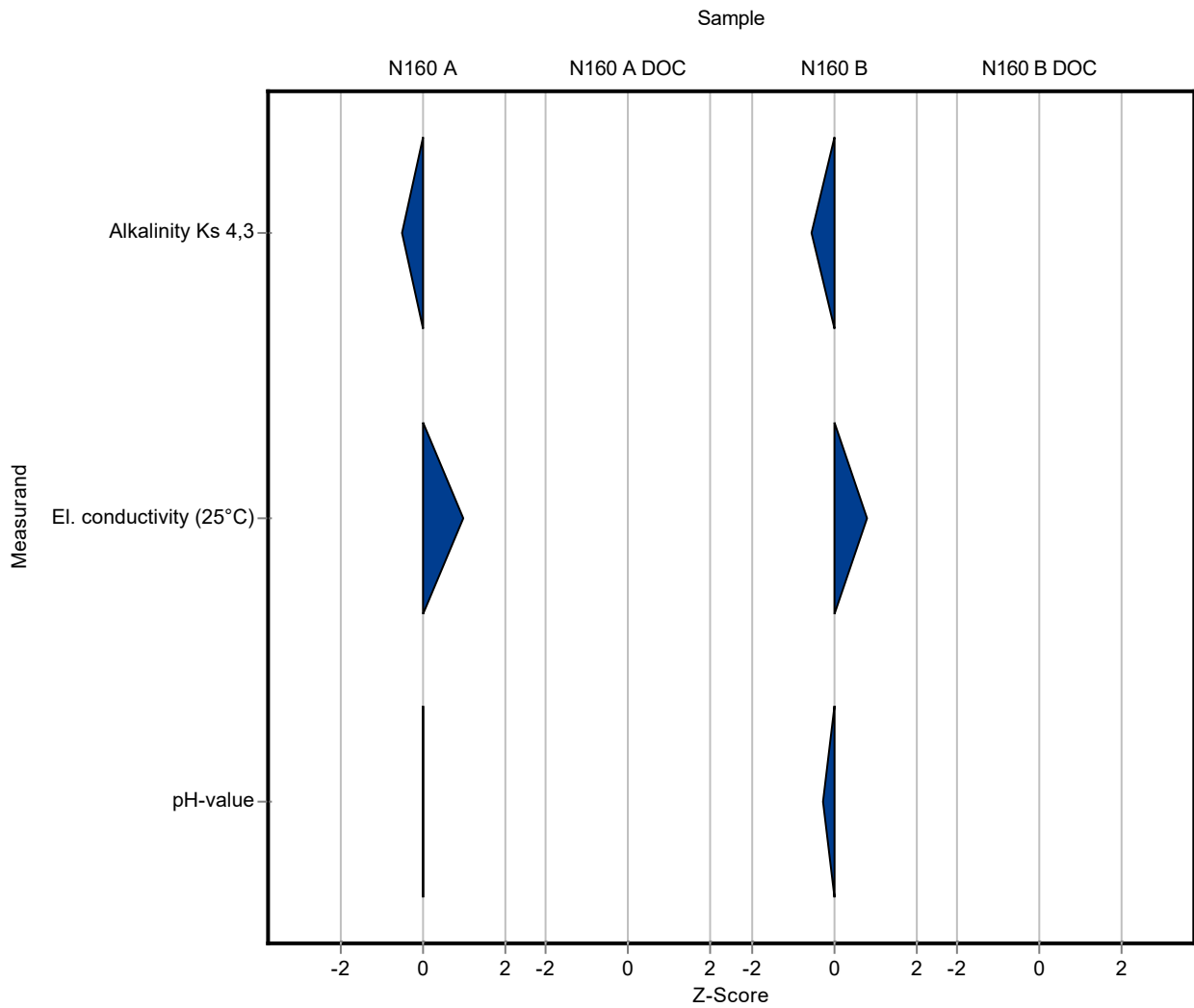
Summary of results Nutrients/Major Ions N160

Labcode: LC0043

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	479 ± 6.47	6.16	101	0.79
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.03 ± 0.01	0.161	99.5	-0.25
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.867 ± 0.36	0.159	99	-0.11
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1063 ± 14.35	13.6	101	0.46
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.69 ± 0.01	0.154	100	0.12
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

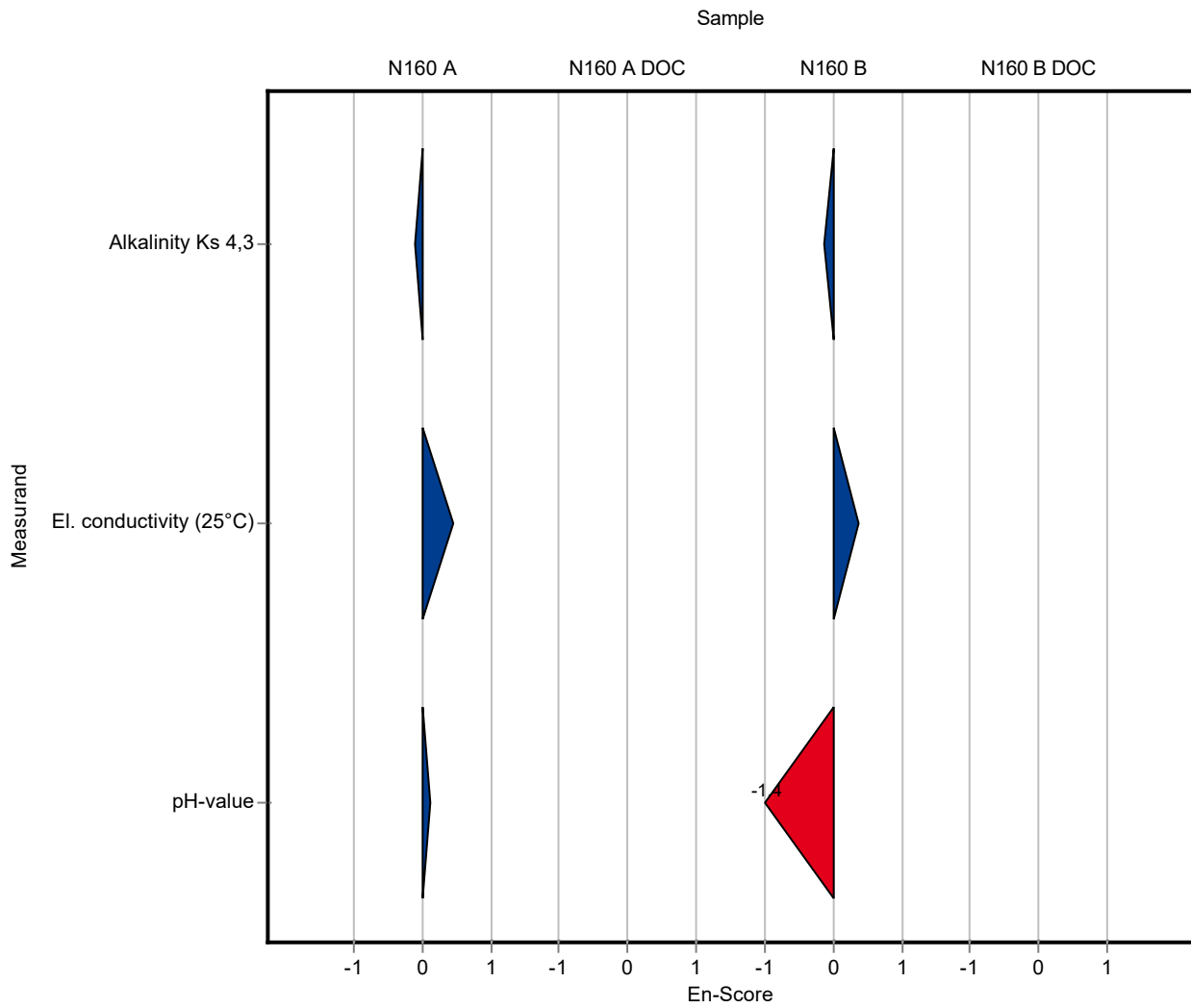
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.479 ± 0.159	0.0704	98.9	-0.12
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	479 ± 6.47	6.16	101	0.38
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.03 ± 0.01	0.161	99.5	-1.45
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8 ± 0.8	0.159	101	0.34
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.087 ± 0.008	0.00952	110	0.80
Boron	mg/l	0.0747 ± 0.00166	0.075 ± 0.007	0.00822	100	0.03
Calcium	mg/l	143 ± 1.42	132.81 ± 13	4.42	93.2	-2.21
Chloride	mg/l	72.1 ± 0.47	67.377 ± 6.5	2.89	93.4	-1.65
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1058 ± 4.51	13.6	101	0.61
Hydrogen carbonate	mg/l	483 ± 1.82	485.02 ± 10	9.66	100	0.21
Magnesium	mg/l	35.3 ± 0.274	35.199 ± 3.4	1.41	99.8	-0.04
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.839 ± 2.4	1.19	100	0.05
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.287 ± 0.027	0.0153	99.5	-0.09
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0676 ± 0.007	0.00987	110	0.60
pH-value	-	7.69 ± 0.0265	7.65 ± 0.1	0.154	99.5	-0.23
Potassium	mg/l	5.32 ± 0.0504	5.214 ± 0.51	0.277	97.9	-0.40
Sodium	mg/l	31.6 ± 0.245	32.015 ± 3.2	1.07	101	0.37
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.538 ± 5.3	1.78	99.4	-0.18
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.1872 ± 0.03	0.0891	99.9	-0.01
Total hardness	mmol/l	5 ± 0.0376	4.76 ± 0.4	0.15	95.1	-1.63
Total nitrogen	mg/l	5.67 ± 0.147	5.88 ± 0.5	0.47	104	0.46

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.08 ± 0.2	0.208	100	0.00

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.53 ± 0.35	0.0704	100	0.17
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.299 ± 0.03	0.0341	105	0.42
Boron	mg/l	0.0149 ± 0.000559	0.0154 ± 0.0015	0.00164	103	0.30
Calcium	mg/l	61.3 ± 0.649	60.402 ± 6	1.9	98.5	-0.48

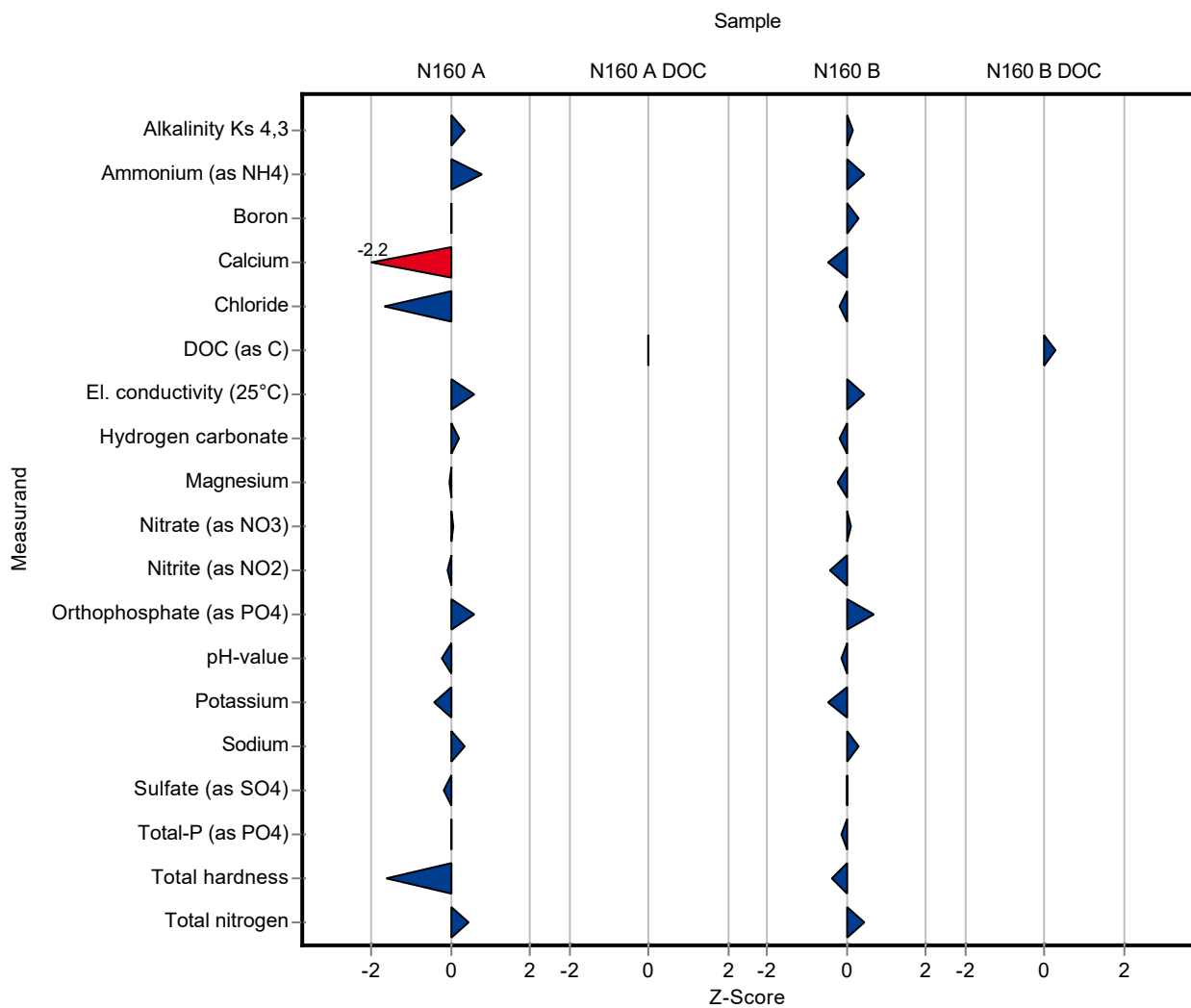
Summary of results Nutrients/Major Ions N160

Labcode: LC0044

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.114 ± 2.2	0.891	99.3	-0.18
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 4.51	6.16	101	0.47
Hydrogen carbonate	mg/l	213 ± 1.3	212.31 ± 10	4.26	99.7	-0.17
Magnesium	mg/l	14.9 ± 0.135	14.816 ± 1.4	0.598	99.1	-0.22
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.497 ± 1.3	0.672	100	0.09
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.1887 ± 0.019	0.0102	97.7	-0.44
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.1213 ± 0.012	0.0174	111	0.71
pH-value	-	8.07 ± 0.019	8.05 ± 0.1	0.161	99.8	-0.12
Potassium	mg/l	2.18 ± 0.0235	2.129 ± 0.21	0.113	97.6	-0.45
Sodium	mg/l	14.3 ± 0.118	14.398 ± 1.4	0.485	101	0.28
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.509 ± 2.9	0.973	100	0.03
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.9149 ± 0.09	0.0694	98.9	-0.15
Total hardness	mmol/l	2.14 ± 0.0185	2.12 ± 0.2	0.0643	98.8	-0.38
Total nitrogen	mg/l	3.42 ± 0.0995	3.55 ± 0.3	0.284	104	0.46

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.7 ± 0.25	0.263	103	0.28



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8 ± 0.8	0.159	101	0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.087 ± 0.008	0.00952	110	0.47
Boron	mg/l	0.0747 ± 0.00166	0.075 ± 0.007	0.00822	100	0.02
Calcium	mg/l	143 ± 1.42	132.81 ± 13	4.42	93.2	-0.38
Chloride	mg/l	72.1 ± 0.47	67.377 ± 6.5	2.89	93.4	-0.37
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1058 ± 4.51	13.6	101	0.86
Hydrogen carbonate	mg/l	483 ± 1.82	485.02 ± 10	9.66	100	0.10
Magnesium	mg/l	35.3 ± 0.274	35.199 ± 3.4	1.41	99.8	-0.01
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.839 ± 2.4	1.19	100	0.01
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.287 ± 0.027	0.0153	99.5	-0.03
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0676 ± 0.007	0.00987	110	0.41
pH-value	-	7.69 ± 0.0265	7.65 ± 0.1	0.154	99.5	-0.18
Potassium	mg/l	5.32 ± 0.0504	5.214 ± 0.51	0.277	97.9	-0.11
Sodium	mg/l	31.6 ± 0.245	32.015 ± 3.2	1.07	101	0.06
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.538 ± 5.3	1.78	99.4	-0.03
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.1872 ± 0.03	0.0891	99.9	-0.01
Total hardness	mmol/l	5 ± 0.0376	4.76 ± 0.4	0.15	95.1	-0.30
Total nitrogen	mg/l	5.67 ± 0.147	5.88 ± 0.5	0.47	104	0.21

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.08 ± 0.2	0.208	100	0.00

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.53 ± 0.35	0.0704	100	0.02
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.299 ± 0.03	0.0341	105	0.24
Boron	mg/l	0.0149 ± 0.000559	0.0154 ± 0.0015	0.00164	103	0.16

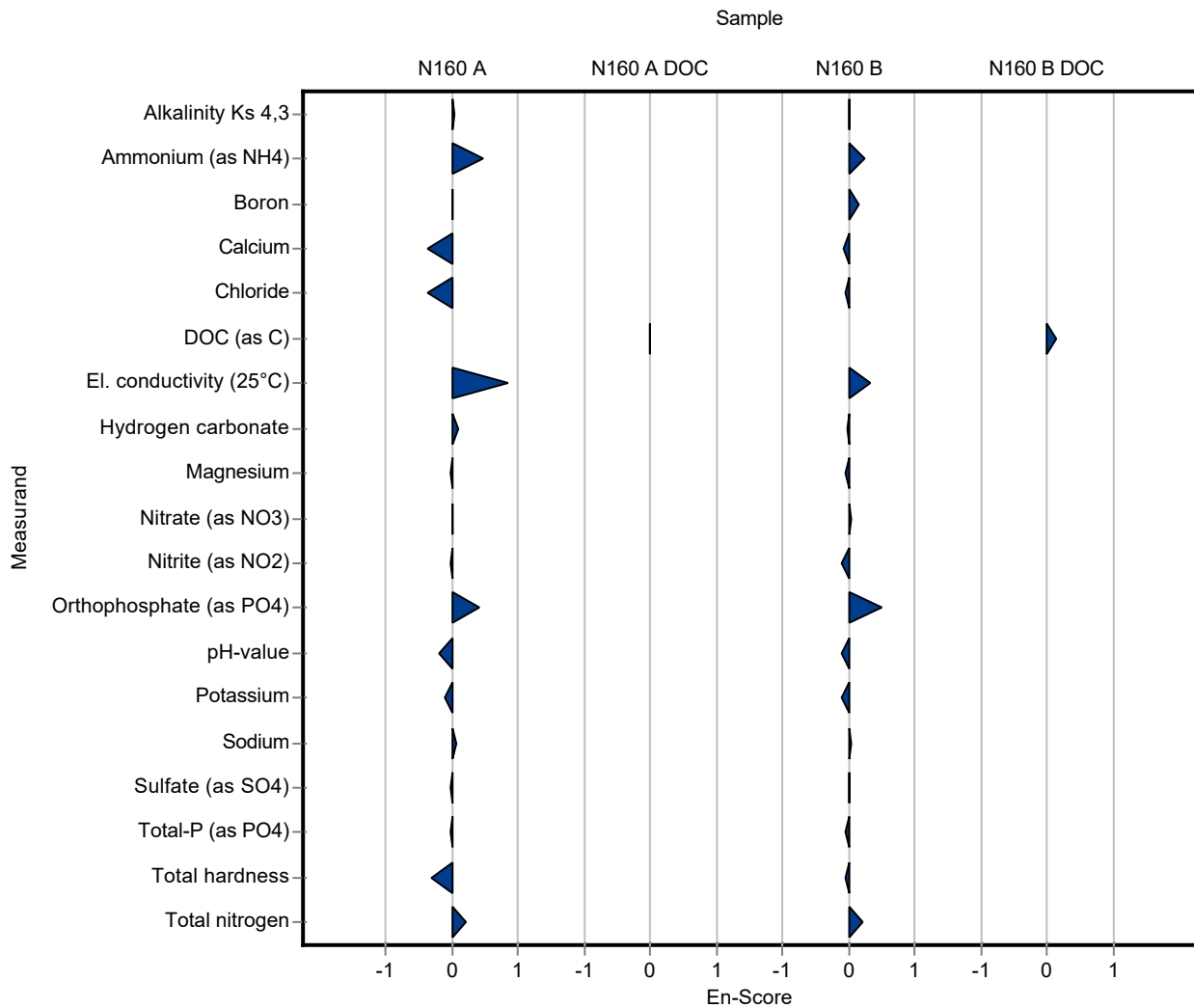
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0044

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	60.402 ± 6	1.9	98.5	-0.08
Chloride	mg/l	22.3 ± 0.157	22.114 ± 2.2	0.891	99.3	-0.04
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 4.51	6.16	101	0.32
Hydrogen carbonate	mg/l	213 ± 1.3	212.31 ± 10	4.26	99.7	-0.04
Magnesium	mg/l	14.9 ± 0.135	14.816 ± 1.4	0.598	99.1	-0.05
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.497 ± 1.3	0.672	100	0.02
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.1887 ± 0.019	0.0102	97.7	-0.12
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.1213 ± 0.012	0.0174	111	0.50
pH-value	-	8.07 ± 0.019	8.05 ± 0.1	0.161	99.8	-0.10
Potassium	mg/l	2.18 ± 0.0235	2.129 ± 0.21	0.113	97.6	-0.12
Sodium	mg/l	14.3 ± 0.118	14.398 ± 1.4	0.485	101	0.05
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.509 ± 2.9	0.973	100	0.00
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.9149 ± 0.09	0.0694	98.9	-0.06
Total hardness	mmol/l	2.14 ± 0.0185	2.12 ± 0.2	0.0643	98.8	-0.06
Total nitrogen	mg/l	3.42 ± 0.0995	3.55 ± 0.3	0.284	104	0.21

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.7 ± 0.25	0.263	103	0.15



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.196 ± 0.4098	0.159	103	1.58
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.081 ± 0.008	0.00952	102	0.17
Boron	mg/l	0.0747 ± 0.00166	0.072 ± 0.0072	0.00822	96.4	-0.33
Calcium	mg/l	143 ± 1.42	138.4 ± 13.8	4.42	97.1	-0.94
Chloride	mg/l	72.1 ± 0.47	71.84 ± 2.08	2.89	99.6	-0.11
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1048 ± 57.6	13.6	99.8	-0.12
Hydrogen carbonate	mg/l	483 ± 1.82	498 ± 24.85	9.66	103	1.56
Magnesium	mg/l	35.3 ± 0.274	34.75 ± 3.5	1.41	98.6	-0.36
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.06 ± 1.64	1.19	97	-0.61
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.287 ± 0.029	0.0153	99.5	-0.09
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.065 ± 0.007	0.00987	105	0.34
pH-value	-	7.69 ± 0.0265	7.8 ± 0.2	0.154	101	0.74
Potassium	mg/l	5.32 ± 0.0504	5.422 ± 0.54	0.277	102	0.35
Sodium	mg/l	31.6 ± 0.245	31.7 ± 3.17	1.07	100	0.08
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.07 ± 2.65	1.78	98.5	-0.45
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.221 ± 0.122	0.0891	103	0.37
Total hardness	mmol/l	5 ± 0.0376	4.88 ± 0.48	0.15	97.5	-0.83
Total nitrogen	mg/l	5.67 ± 0.147	5.89 ± 0.589	0.47	104	0.48

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.046 ± 0.17	0.208	98.4	-0.16

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.645 ± 0.182	0.0704	104	1.81
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.284 ± 0.028	0.0341	99.8	-0.02
Boron	mg/l	0.0149 ± 0.000559	<0.02 (LOQ) ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	59.3 ± 5.9	1.9	96.7	-1.06

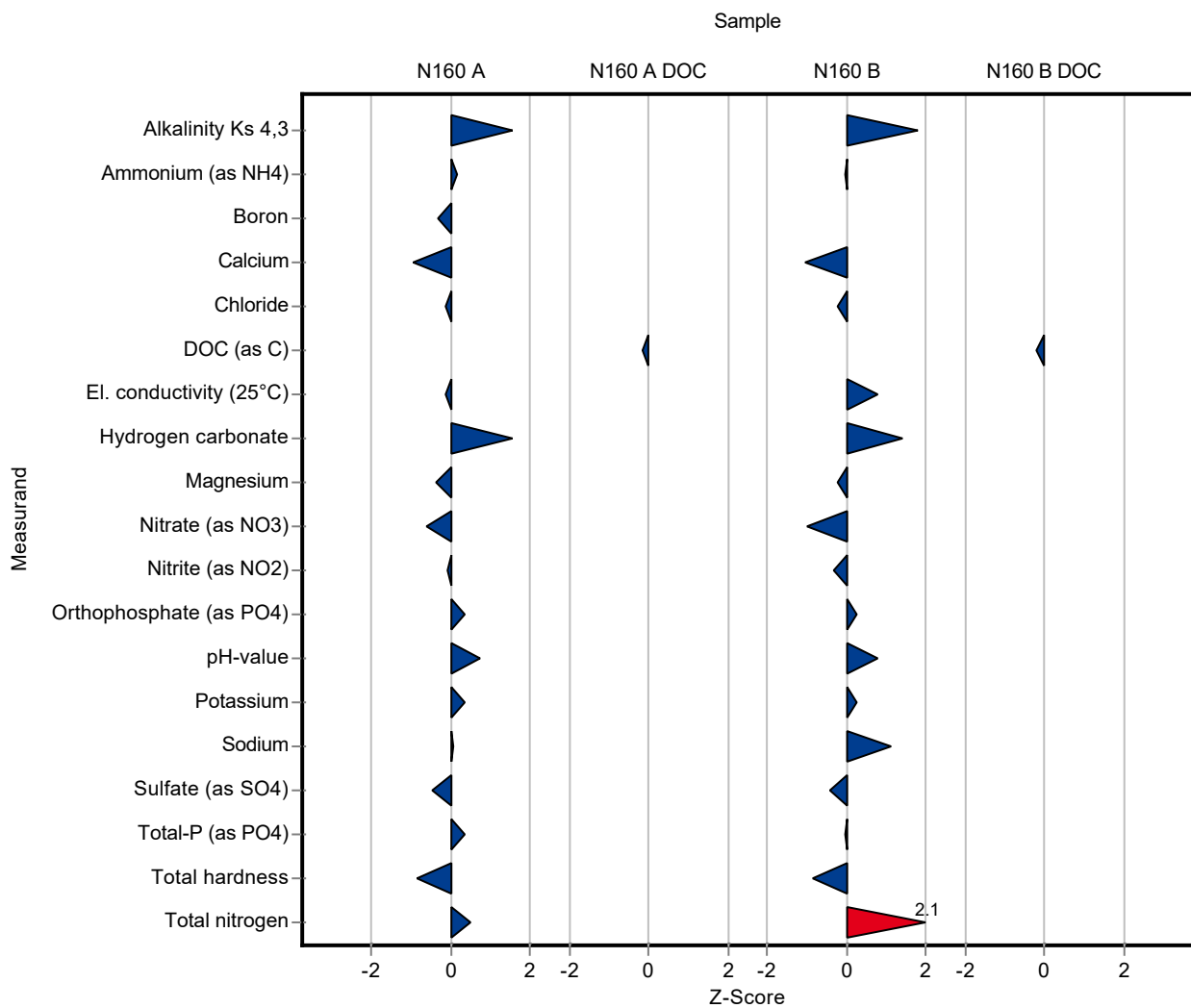
Summary of results Nutrients/Major Ions N160

Labcode: LC0045

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.08 ± 0.64	0.891	99.1	-0.22
El. conductivity (25°C)	µS/cm	474 ± 1.13	479 ± 26.3	6.16	101	0.79
Hydrogen carbonate	mg/l	213 ± 1.3	219 ± 10.95	4.26	103	1.40
Magnesium	mg/l	14.9 ± 0.135	14.8 ± 1.48	0.598	99	-0.25
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.75 ± 0.91	0.672	94.9	-1.02
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.19 ± 0.019	0.0102	98.4	-0.31
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.113 ± 0.011	0.0174	104	0.23
pH-value	-	8.07 ± 0.019	8.2 ± 0.2	0.161	102	0.81
Potassium	mg/l	2.18 ± 0.0235	2.21 ± 0.22	0.113	101	0.26
Sodium	mg/l	14.3 ± 0.118	14.8 ± 1.5	0.485	104	1.11
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.09 ± 1.46	0.973	98.7	-0.41
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.923 ± 0.093	0.0694	99.7	-0.04
Total hardness	mmol/l	2.14 ± 0.0185	2.09 ± 0.21	0.0643	97.4	-0.85
Total nitrogen	mg/l	3.42 ± 0.0995	4.02 ± 0.402	0.284	118	2.12

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.573 ± 0.21	0.263	98	-0.20



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.196 ± 0.4098	0.159	103	0.31
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.081 ± 0.008	0.00952	102	0.10
Boron	mg/l	0.0747 ± 0.00166	0.072 ± 0.0072	0.00822	96.4	-0.19
Calcium	mg/l	143 ± 1.42	138.4 ± 13.8	4.42	97.1	-0.15
Chloride	mg/l	72.1 ± 0.47	71.84 ± 2.08	2.89	99.6	-0.07
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1048 ± 57.6	13.6	99.8	-0.01
Hydrogen carbonate	mg/l	483 ± 1.82	498 ± 24.85	9.66	103	0.30
Magnesium	mg/l	35.3 ± 0.274	34.75 ± 3.5	1.41	98.6	-0.07
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.06 ± 1.64	1.19	97	-0.22
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.287 ± 0.029	0.0153	99.5	-0.02
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.065 ± 0.007	0.00987	105	0.23
pH-value	-	7.69 ± 0.0265	7.8 ± 0.2	0.154	101	0.28
Potassium	mg/l	5.32 ± 0.0504	5.422 ± 0.54	0.277	102	0.09
Sodium	mg/l	31.6 ± 0.245	31.7 ± 3.17	1.07	100	0.01
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.07 ± 2.65	1.78	98.5	-0.15
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.221 ± 0.122	0.0891	103	0.14
Total hardness	mmol/l	5 ± 0.0376	4.88 ± 0.48	0.15	97.5	-0.13
Total nitrogen	mg/l	5.67 ± 0.147	5.89 ± 0.589	0.47	104	0.19

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.046 ± 0.17	0.208	98.4	-0.10

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.645 ± 0.182	0.0704	104	0.35
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.284 ± 0.028	0.0341	99.8	-0.01
Boron	mg/l	0.0149 ± 0.000559	<0.02 (LOQ) ± -	0.00164	-	-

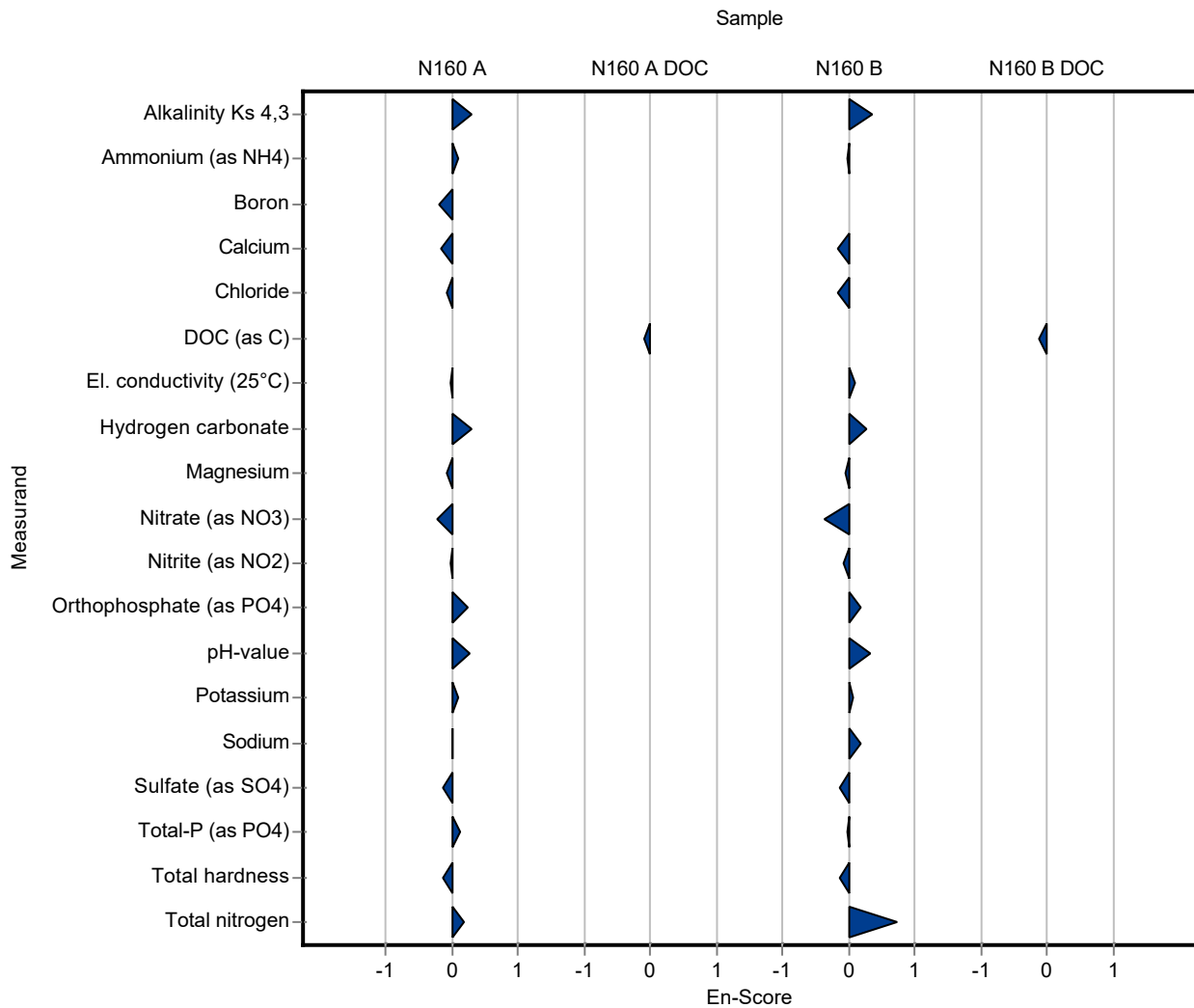
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0045

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	59.3 ± 5.9	1.9	96.7	-0.17
Chloride	mg/l	22.3 ± 0.157	22.08 ± 0.64	0.891	99.1	-0.15
El. conductivity (25°C)	µS/cm	474 ± 1.13	479 ± 26.3	6.16	101	0.09
Hydrogen carbonate	mg/l	213 ± 1.3	219 ± 10.95	4.26	103	0.27
Magnesium	mg/l	14.9 ± 0.135	14.8 ± 1.48	0.598	99	-0.05
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.75 ± 0.91	0.672	94.9	-0.38
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.19 ± 0.019	0.0102	98.4	-0.08
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.113 ± 0.011	0.0174	104	0.18
pH-value	-	8.07 ± 0.019	8.2 ± 0.2	0.161	102	0.33
Potassium	mg/l	2.18 ± 0.0235	2.21 ± 0.22	0.113	101	0.07
Sodium	mg/l	14.3 ± 0.118	14.8 ± 1.5	0.485	104	0.18
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.09 ± 1.46	0.973	98.7	-0.14
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.923 ± 0.093	0.0694	99.7	-0.01
Total hardness	mmol/l	2.14 ± 0.0185	2.09 ± 0.21	0.0643	97.4	-0.13
Total nitrogen	mg/l	3.42 ± 0.0995	4.02 ± 0.402	0.284	118	0.74

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.573 ± 0.21	0.263	98	-0.13



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.85 ± 0.79	0.159	98.8	-0.60
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.067 ± 0.0067	0.00952	84.4	-1.30
Boron	mg/l	0.0747 ± 0.00166	0.105 ± 0.0105	0.00822	141	3.68
Calcium	mg/l	143 ± 1.42	113 ± 11.3	4.42	79.3	-6.69
Chloride	mg/l	72.1 ± 0.47	73.5 ± 7.35	2.89	102	0.47
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1040 ± 104	13.6	99.1	-0.71
Hydrogen carbonate	mg/l	483 ± 1.82	476 ± 47.6	9.66	98.6	-0.72
Magnesium	mg/l	35.3 ± 0.274	35.1 ± 3.51	1.41	99.6	-0.11
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	21.8 ± 2.18	1.19	91.7	-1.67
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.245 ± 0.0245	0.0153	84.9	-2.84
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.064 ± 0.0064	0.00987	104	0.24
pH-value	-	7.69 ± 0.0265	7.94 ± 0.79	0.154	103	1.65
Potassium	mg/l	5.32 ± 0.0504	2.45 ± 0.245	0.277	46	-10.40
Sodium	mg/l	31.6 ± 0.245	32.3 ± 3.23	1.07	102	0.64
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	52.3 ± 5.23	1.78	97.1	-0.88
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.25 ± 0.125	0.0891	105	0.70
Total hardness	mmol/l	5 ± 0.0376	3.78 ± 0.378	0.15	75.5	-8.16
Total nitrogen	mg/l	5.67 ± 0.147	5.05 ± 0.505	0.47	89.1	-1.31

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.97 ± 0.197	0.208	94.7	-0.53

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.35	0.0704	99.5	-0.25
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.26 ± 0.026	0.0341	91.4	-0.72
Boron	mg/l	0.0149 ± 0.000559	0.035 ± 0.0035	0.00164	235	12.30
Calcium	mg/l	61.3 ± 0.649	48.4 ± 4.84	1.9	78.9	-6.79

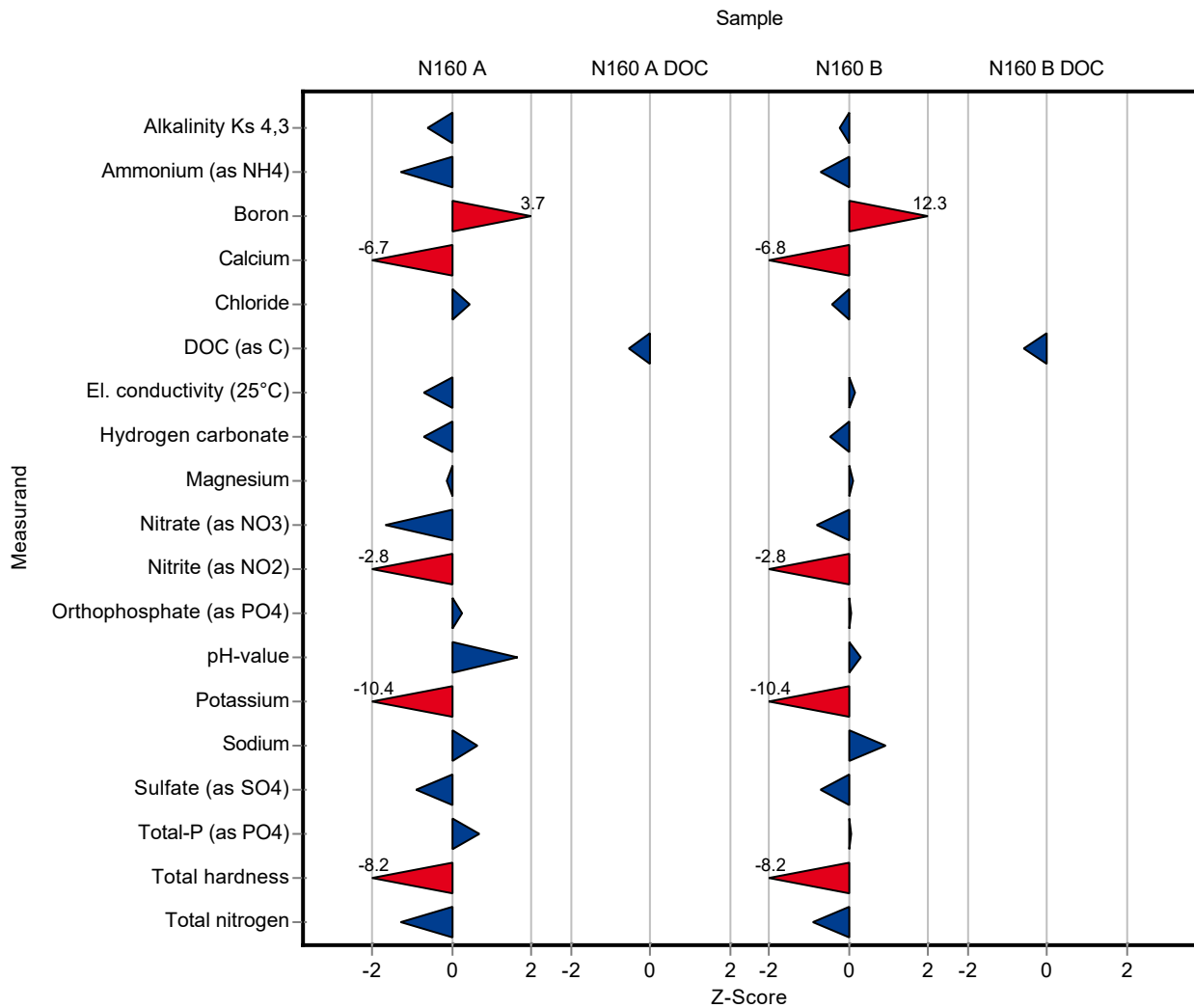
Summary of results Nutrients/Major Ions N160

Labcode: LC0046

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.9 ± 2.19	0.891	98.3	-0.43
El. conductivity (25°C)	µS/cm	474 ± 1.13	475 ± 47.5	6.16	100	0.14
Hydrogen carbonate	mg/l	213 ± 1.3	211 ± 21.1	4.26	99	-0.48
Magnesium	mg/l	14.9 ± 0.135	15 ± 1.5	0.598	100	0.08
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.9 ± 1.29	0.672	96	-0.80
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.165 ± 0.0165	0.0102	85.4	-2.75
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.11 ± 0.011	0.0174	101	0.06
pH-value	-	8.07 ± 0.019	8.12 ± 0.81	0.161	101	0.31
Potassium	mg/l	2.18 ± 0.0235	1 ± 0.1	0.113	45.9	-10.40
Sodium	mg/l	14.3 ± 0.118	14.7 ± 1.47	0.485	103	0.90
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.8 ± 2.88	0.973	97.7	-0.70
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.93 ± 0.093	0.0694	100	0.07
Total hardness	mmol/l	2.14 ± 0.0185	1.62 ± 0.162	0.0643	75.5	-8.16
Total nitrogen	mg/l	3.42 ± 0.0995	3.16 ± 0.32	0.284	92.4	-0.91

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.47 ± 0.247	0.263	94	-0.60



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.85 ± 0.79	0.159	98.8	-0.06
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.067 ± 0.0067	0.00952	84.4	-0.90
Boron	mg/l	0.0747 ± 0.00166	0.105 ± 0.0105	0.00822	141	1.44
Calcium	mg/l	143 ± 1.42	113 ± 11.3	4.42	79.3	-1.31
Chloride	mg/l	72.1 ± 0.47	73.5 ± 7.35	2.89	102	0.09
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1040 ± 104	13.6	99.1	-0.05
Hydrogen carbonate	mg/l	483 ± 1.82	476 ± 47.6	9.66	98.6	-0.07
Magnesium	mg/l	35.3 ± 0.274	35.1 ± 3.51	1.41	99.6	-0.02
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	21.8 ± 2.18	1.19	91.7	-0.45
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.245 ± 0.0245	0.0153	84.9	-0.88
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.064 ± 0.0064	0.00987	104	0.18
pH-value	-	7.69 ± 0.0265	7.94 ± 0.79	0.154	103	0.16
Potassium	mg/l	5.32 ± 0.0504	2.45 ± 0.245	0.277	46	-5.83
Sodium	mg/l	31.6 ± 0.245	32.3 ± 3.23	1.07	102	0.11
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	52.3 ± 5.23	1.78	97.1	-0.15
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.25 ± 0.125	0.0891	105	0.25
Total hardness	mmol/l	5 ± 0.0376	3.78 ± 0.378	0.15	75.5	-1.62
Total nitrogen	mg/l	5.67 ± 0.147	5.05 ± 0.505	0.47	89.1	-0.60

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.97 ± 0.197	0.208	94.7	-0.28

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.35	0.0704	99.5	-0.03
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.26 ± 0.026	0.0341	91.4	-0.47
Boron	mg/l	0.0149 ± 0.000559	0.035 ± 0.0035	0.00164	235	2.86

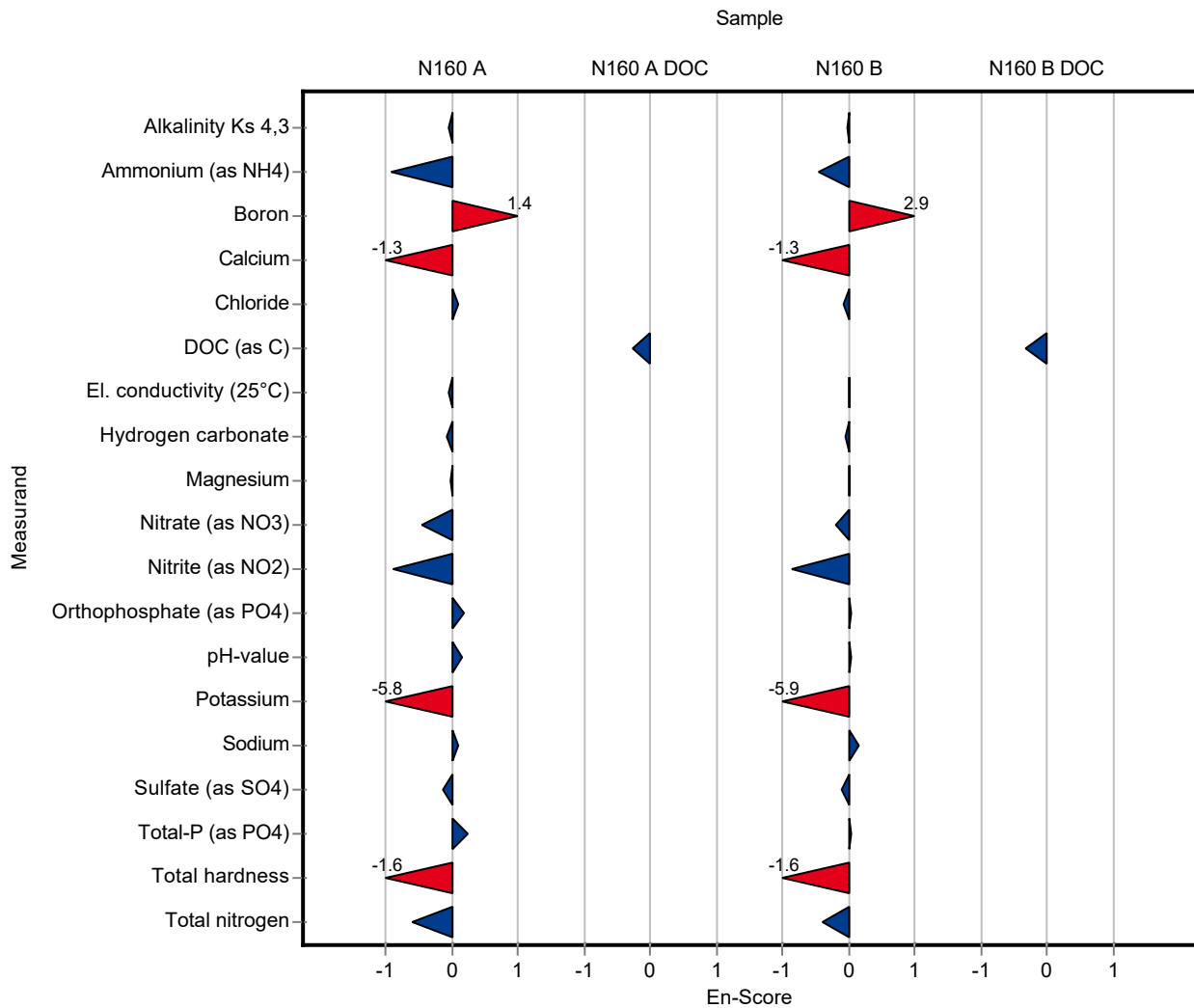
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0046

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	48.4 ± 4.84	1.9	78.9	-1.33
Chloride	mg/l	22.3 ± 0.157	21.9 ± 2.19	0.891	98.3	-0.09
El. conductivity (25°C)	µS/cm	474 ± 1.13	475 ± 47.5	6.16	100	0.01
Hydrogen carbonate	mg/l	213 ± 1.3	211 ± 21.1	4.26	99	-0.05
Magnesium	mg/l	14.9 ± 0.135	15 ± 1.5	0.598	100	0.02
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.9 ± 1.29	0.672	96	-0.21
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.165 ± 0.0165	0.0102	85.4	-0.85
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.11 ± 0.011	0.0174	101	0.05
pH-value	-	8.07 ± 0.019	8.12 ± 0.81	0.161	101	0.03
Potassium	mg/l	2.18 ± 0.0235	1 ± 0.1	0.113	45.9	-5.86
Sodium	mg/l	14.3 ± 0.118	14.7 ± 1.47	0.485	103	0.15
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.8 ± 2.88	0.973	97.7	-0.12
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.93 ± 0.093	0.0694	100	0.02
Total hardness	mmol/l	2.14 ± 0.0185	1.62 ± 0.162	0.0643	75.5	-1.62
Total nitrogen	mg/l	3.42 ± 0.0995	3.16 ± 0.32	0.284	92.4	-0.40

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.47 ± 0.247	0.263	94	-0.32



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.98 ± 0.15	0.159	100	0.22
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.064 ± 0.002	0.00952	80.7	-1.61
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	146 ± 4.4	4.42	102	0.78
Chloride	mg/l	72.1 ± 0.47	71.5 ± 4.3	2.89	99.1	-0.22
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1049 ± 11	13.6	99.9	-0.05
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	37.2 ± 1.3	1.41	106	1.38
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.1 ± 2	1.19	101	0.27
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<0.15 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.6 ± 0.08	0.154	98.9	-0.56
Potassium	mg/l	5.32 ± 0.0504	5.67 ± 0.29	0.277	107	1.25
Sodium	mg/l	31.6 ± 0.245	31.7 ± 1.6	1.07	100	0.08
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54 ± 3.9	1.78	100	0.08
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.95 ± 0.05	0.0891	80	-2.67
Total hardness	mmol/l	5 ± 0.0376	5.06 ± 0.12	0.15	101	0.37
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.49 ± 0.07	0.0704	99.2	-0.40
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.268 ± 0.009	0.0341	94.2	-0.48
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	60.4 ± 1.8	1.9	98.5	-0.48

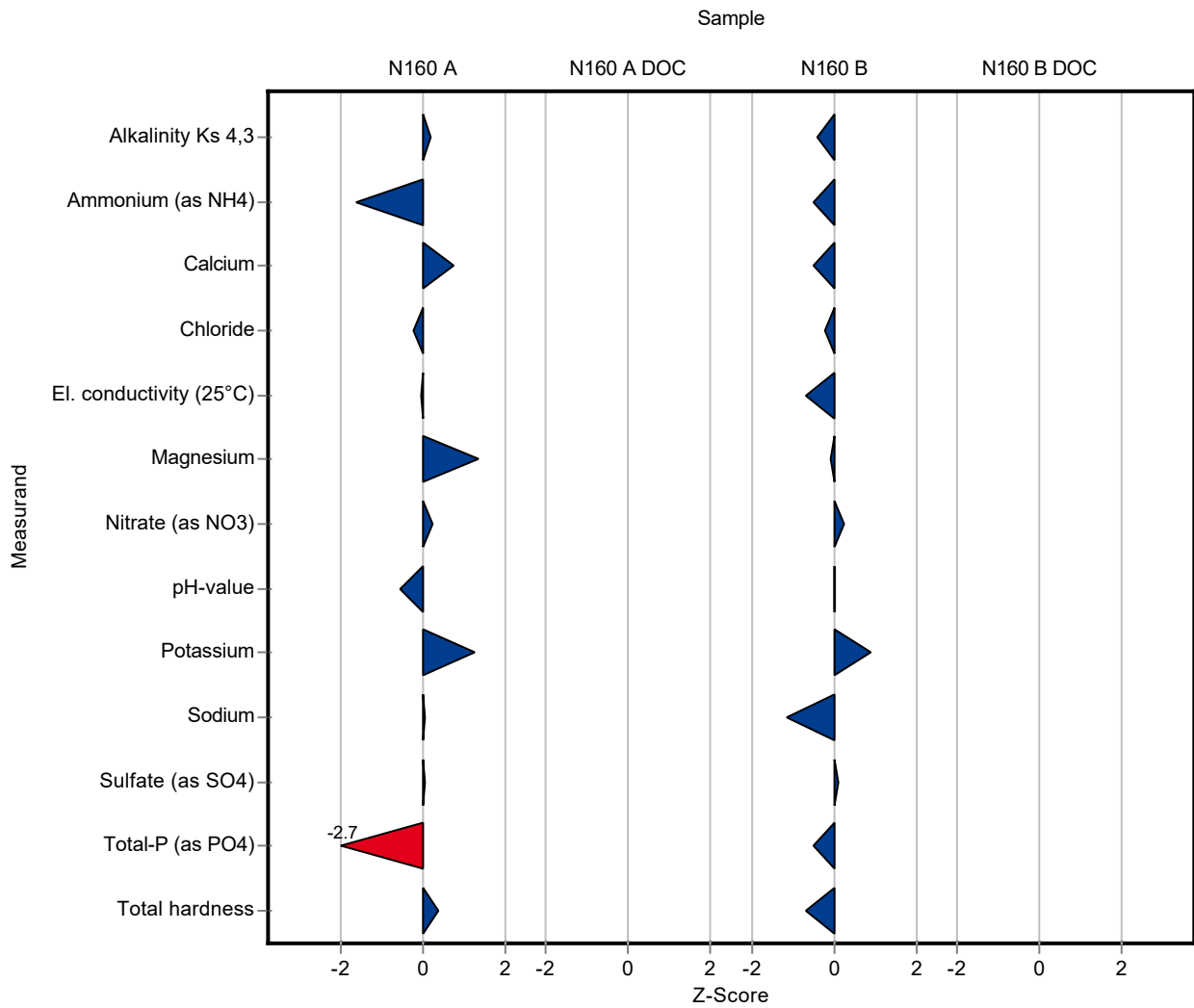
Summary of results Nutrients/Major Ions N160

Labcode: LC0047

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.1 ± 1.4	0.891	99.2	-0.20
El. conductivity (25°C)	µS/cm	474 ± 1.13	470 ± 4.7	6.16	99.1	-0.67
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.9 ± 0.5	0.598	99.7	-0.08
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.6 ± 1.2	0.672	101	0.24
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	<0.15 (LOQ) ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.07 ± 0.08	0.161	100	0.00
Potassium	mg/l	2.18 ± 0.0235	2.28 ± 0.12	0.113	105	0.88
Sodium	mg/l	14.3 ± 0.118	13.7 ± 0.7	0.485	96.1	-1.16
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.6 ± 2.1	0.973	100	0.12
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.89 ± 0.04	0.0694	96.2	-0.51
Total hardness	mmol/l	2.14 ± 0.0185	2.1 ± 0.05	0.0643	97.9	-0.69
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.98 ± 0.15	0.159	100	0.12
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.064 ± 0.002	0.00952	80.7	-3.19
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	146 ± 4.4	4.42	102	0.39
Chloride	mg/l	72.1 ± 0.47	71.5 ± 4.3	2.89	99.1	-0.08
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1049 ± 11	13.6	99.9	-0.03
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	37.2 ± 1.3	1.41	106	0.74
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.1 ± 2	1.19	101	0.08
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<0.15 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.6 ± 0.08	0.154	98.9	-0.53
Potassium	mg/l	5.32 ± 0.0504	5.67 ± 0.29	0.277	107	0.59
Sodium	mg/l	31.6 ± 0.245	31.7 ± 1.6	1.07	100	0.03
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54 ± 3.9	1.78	100	0.02
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.95 ± 0.05	0.0891	80	-2.34
Total hardness	mmol/l	5 ± 0.0376	5.06 ± 0.12	0.15	101	0.23
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.49 ± 0.07	0.0704	99.2	-0.20
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.268 ± 0.009	0.0341	94.2	-0.89
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

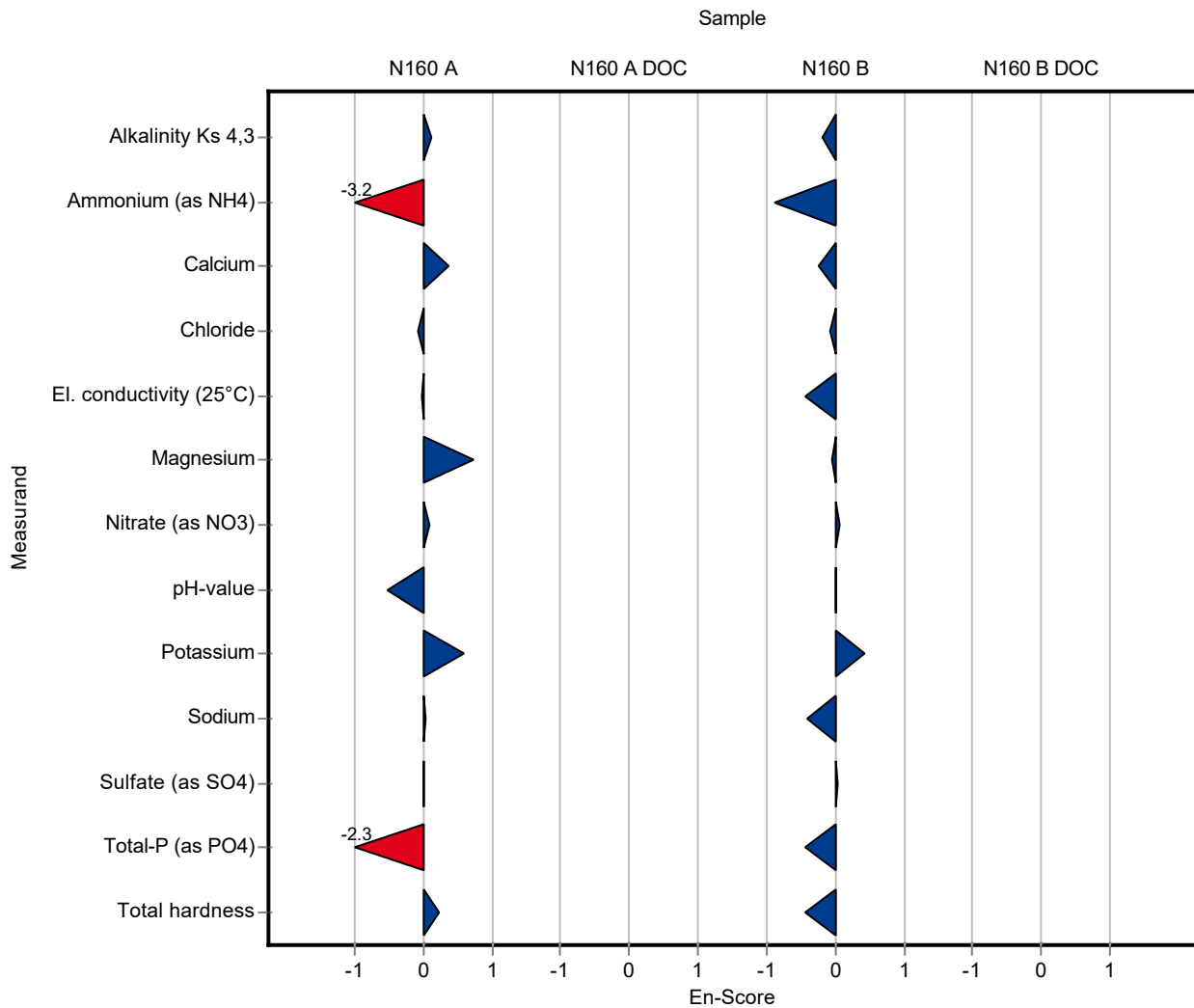
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0047

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	60.4 ± 1.8	1.9	98.5	-0.25
Chloride	mg/l	22.3 ± 0.157	22.1 ± 1.4	0.891	99.2	-0.06
El. conductivity (25°C)	µS/cm	474 ± 1.13	470 ± 4.7	6.16	99.1	-0.44
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.9 ± 0.5	0.598	99.7	-0.05
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.6 ± 1.2	0.672	101	0.07
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	<0.15 (LOQ) ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.07 ± 0.08	0.161	100	0.00
Potassium	mg/l	2.18 ± 0.0235	2.28 ± 0.12	0.113	105	0.41
Sodium	mg/l	14.3 ± 0.118	13.7 ± 0.7	0.485	96.1	-0.40
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.6 ± 2.1	0.973	100	0.03
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.89 ± 0.04	0.0694	96.2	-0.44
Total hardness	mmol/l	2.14 ± 0.0185	2.1 ± 0.05	0.0643	97.9	-0.44
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.286 ± 0.045	0.0153	99.2	-0.16
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.07 ± 0.01	0.00987	114	0.85
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.197 ± 0.1	0.0891	101	0.10
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.76 ± 0.2	0.208	84.6	-1.54

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

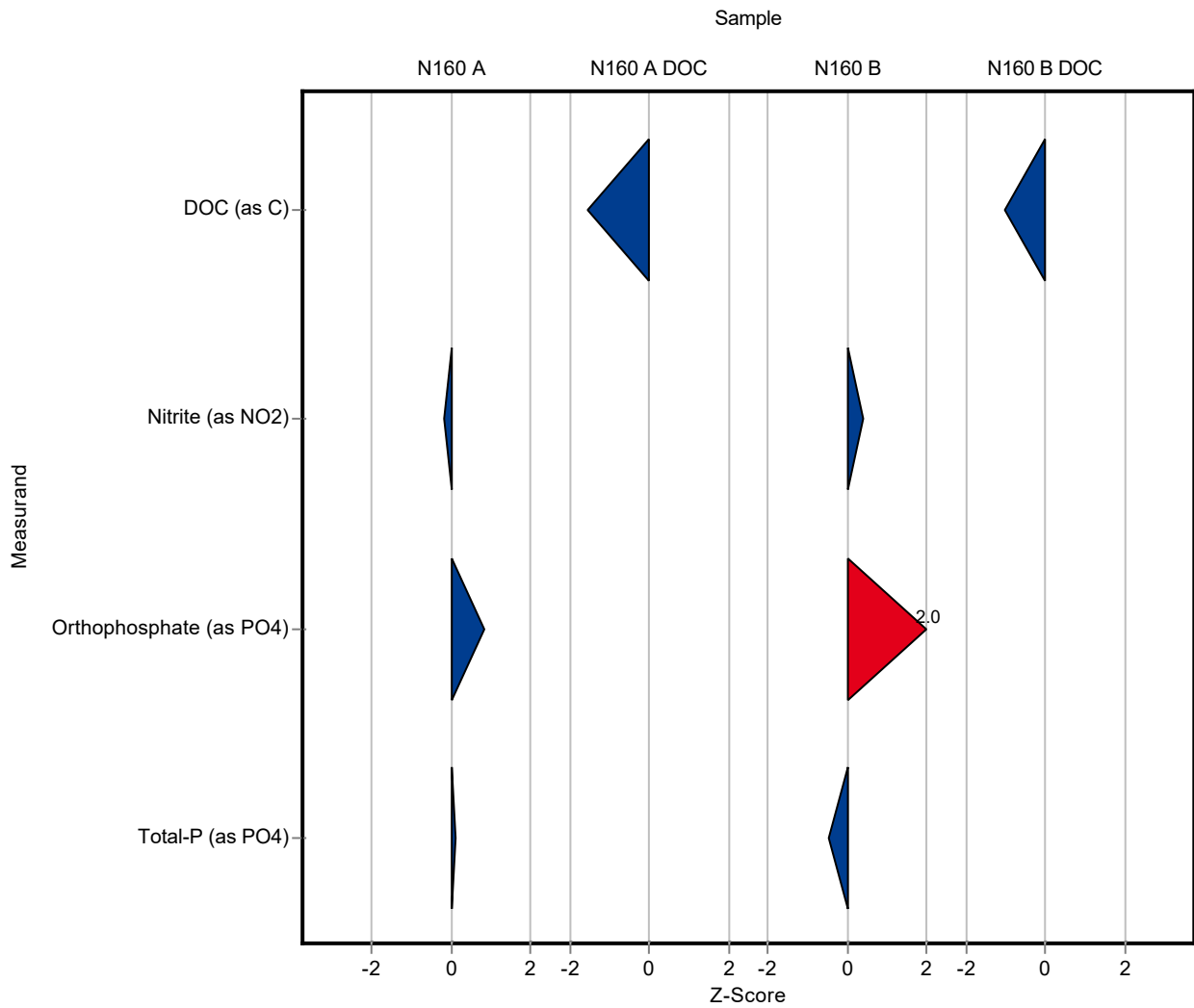
Summary of results Nutrients/Major Ions N160

Labcode: LC0048

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.197 ± 0.03	0.0102	102	0.37
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.144 ± 0.02	0.0174	132	2.01
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.893 ± 0.08	0.0694	96.5	-0.47
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.36 ± 0.28	0.263	89.8	-1.02



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.286 ± 0.045	0.0153	99.2	-0.03
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.07 ± 0.01	0.00987	114	0.41
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.197 ± 0.1	0.0891	101	0.05
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.76 ± 0.2	0.208	84.6	-0.79

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

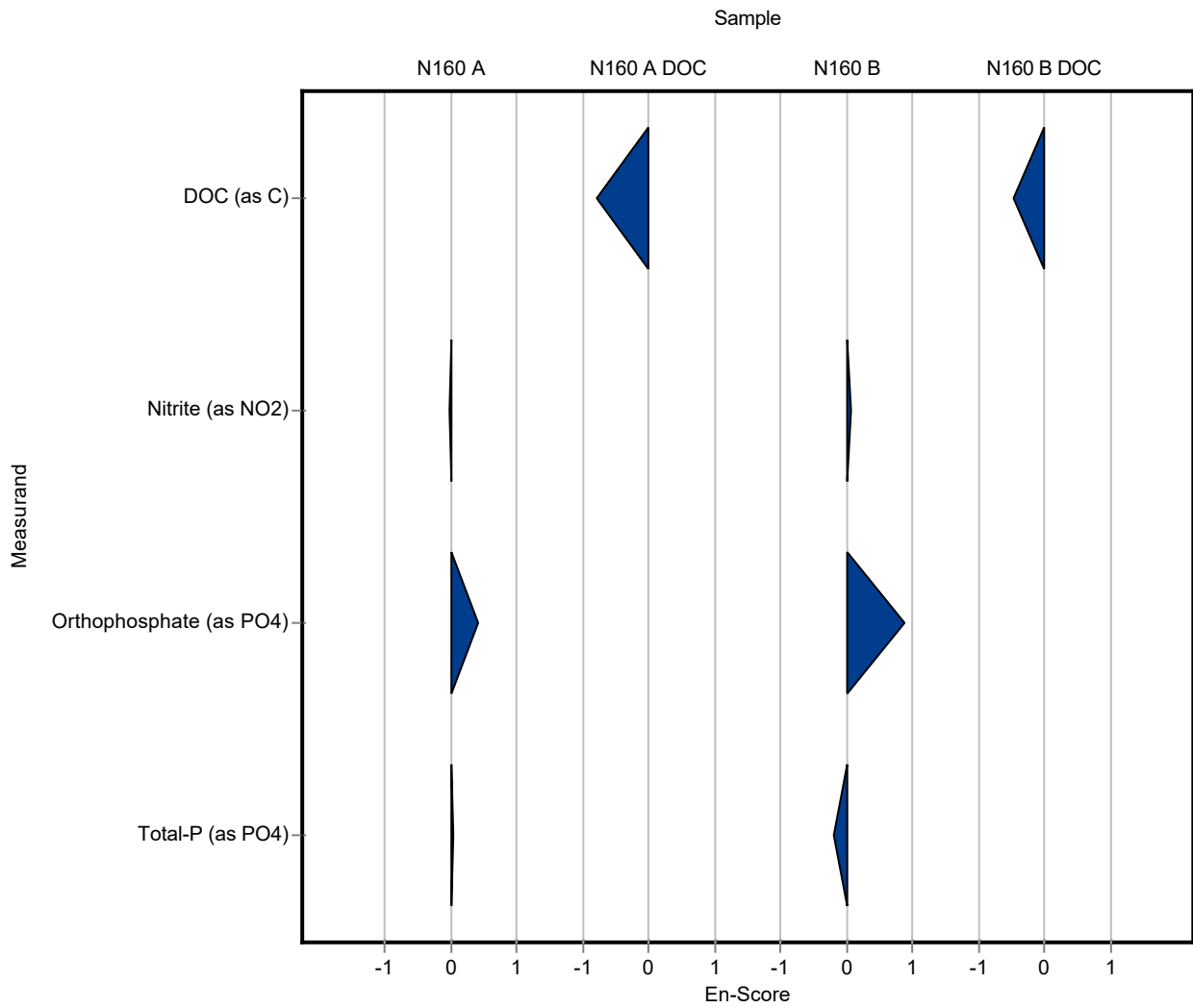
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0048

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.197 ± 0.03	0.0102	102	0.06
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.144 ± 0.02	0.0174	132	0.87
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.893 ± 0.08	0.0694	96.5	-0.20
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.36 ± 0.28	0.263	89.8	-0.47



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.86 ± 0.107	0.159	98.9	-0.54
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	0.0776 ± 0.0039	0.00822	104	0.35
Calcium	mg/l	143 ± 1.42	143.2 ± 7.16	4.42	100	0.14
Chloride	mg/l	72.1 ± 0.47	71.62 ± 1.91	2.89	99.3	-0.18
El. conductivity (25°C)	µS/cm	1050 ± 3.6	967 ± 4	13.6	92.1	-6.06
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.31 ± 1.77	1.41	100	0.04
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.8 ± 0.744	1.19	100	0.01
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.314 ± 0.0112	0.0153	109	1.67
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.79 ± 0.03	0.154	101	0.68
Potassium	mg/l	5.32 ± 0.0504	5.06 ± 0.253	0.277	95	-0.95
Sodium	mg/l	31.6 ± 0.245	32.29 ± 1.62	1.07	102	0.63
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.91 ± 1.4	1.78	100	0.03
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.149 ± 0.0545	0.0891	96.7	-0.44
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	5.44 ± 0.406	0.47	96	-0.48

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.054 ± 0.121	0.208	98.8	-0.12

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.48 ± 0.0475	0.0704	98.9	-0.54
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.292 ± 0.0151	0.0341	103	0.22
Boron	mg/l	0.0149 ± 0.000559	0.0167 ± 0.000834	0.00164	112	1.10
Calcium	mg/l	61.3 ± 0.649	60.69 ± 3.04	1.9	99	-0.33

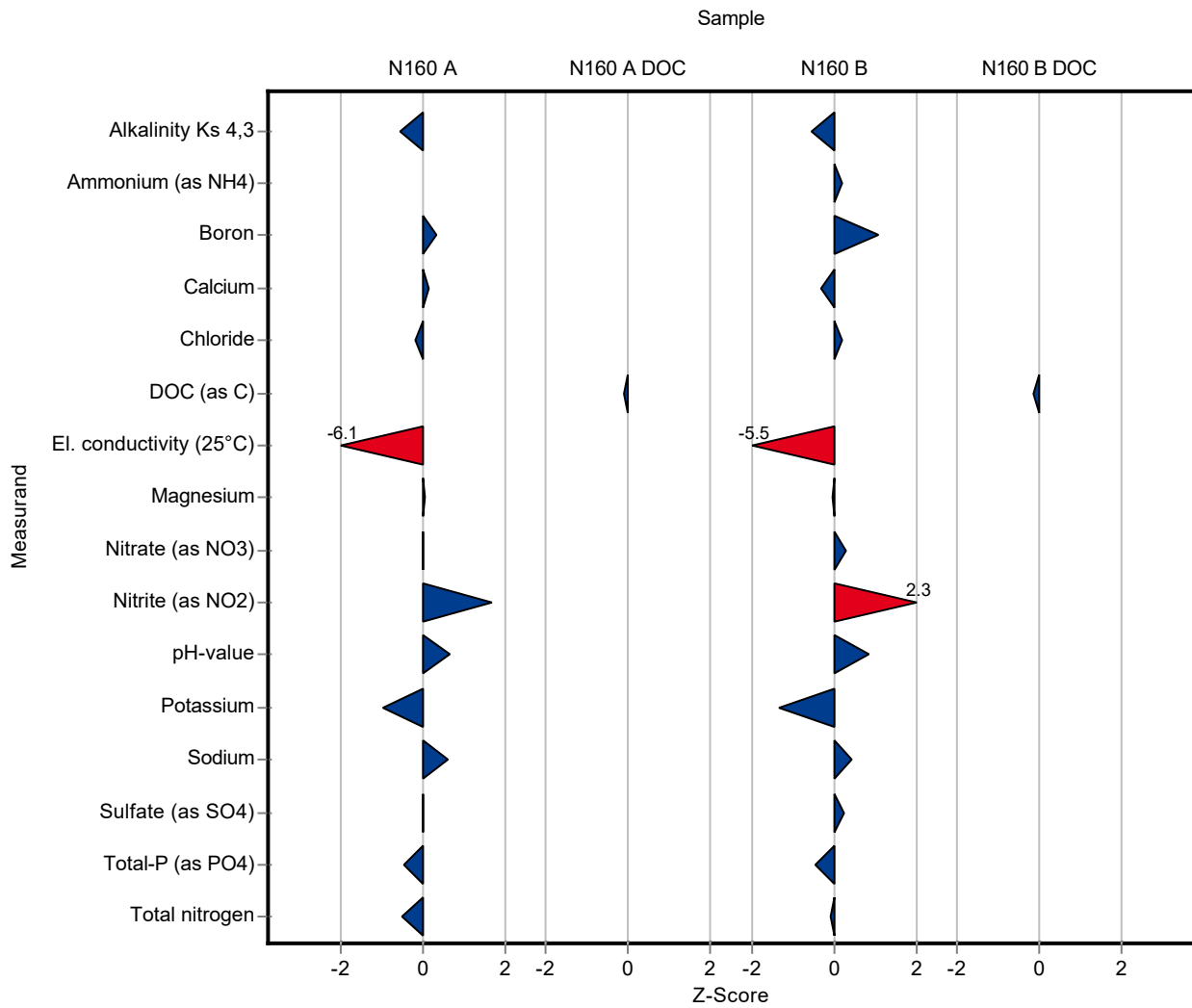
Summary of results Nutrients/Major Ions N160

Labcode: LC0049

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.45 ± 0.599	0.891	101	0.19
El. conductivity (25°C)	µS/cm	474 ± 1.13	440 ± 2	6.16	92.8	-5.54
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.93 ± 0.747	0.598	99.9	-0.03
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.64 ± 0.426	0.672	102	0.30
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.2168 ± 0.00775	0.0102	112	2.31
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.21 ± 0.03	0.161	102	0.87
Potassium	mg/l	2.18 ± 0.0235	2.03 ± 0.102	0.113	93.1	-1.33
Sodium	mg/l	14.3 ± 0.118	14.46 ± 0.723	0.485	101	0.41
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.71 ± 0.771	0.973	101	0.23
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.8933 ± 0.0424	0.0694	96.5	-0.46
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.393 ± 0.253	0.284	99.2	-0.09

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.59 ± 0.153	0.263	98.6	-0.14



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.86 ± 0.107	0.159	98.9	-0.40
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	0.0776 ± 0.0039	0.00822	104	0.36
Calcium	mg/l	143 ± 1.42	143.2 ± 7.16	4.42	100	0.04
Chloride	mg/l	72.1 ± 0.47	71.62 ± 1.91	2.89	99.3	-0.14
El. conductivity (25°C)	µS/cm	1050 ± 3.6	967 ± 4	13.6	92.1	-9.43
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.31 ± 1.77	1.41	100	0.02
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.8 ± 0.744	1.19	100	0.01
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.314 ± 0.0112	0.0153	109	1.13
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.79 ± 0.03	0.154	101	1.58
Potassium	mg/l	5.32 ± 0.0504	5.06 ± 0.253	0.277	95	-0.52
Sodium	mg/l	31.6 ± 0.245	32.29 ± 1.62	1.07	102	0.21
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.91 ± 1.4	1.78	100	0.02
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.149 ± 0.0545	0.0891	96.7	-0.35
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	5.44 ± 0.406	0.47	96	-0.27

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.054 ± 0.121	0.208	98.8	-0.10

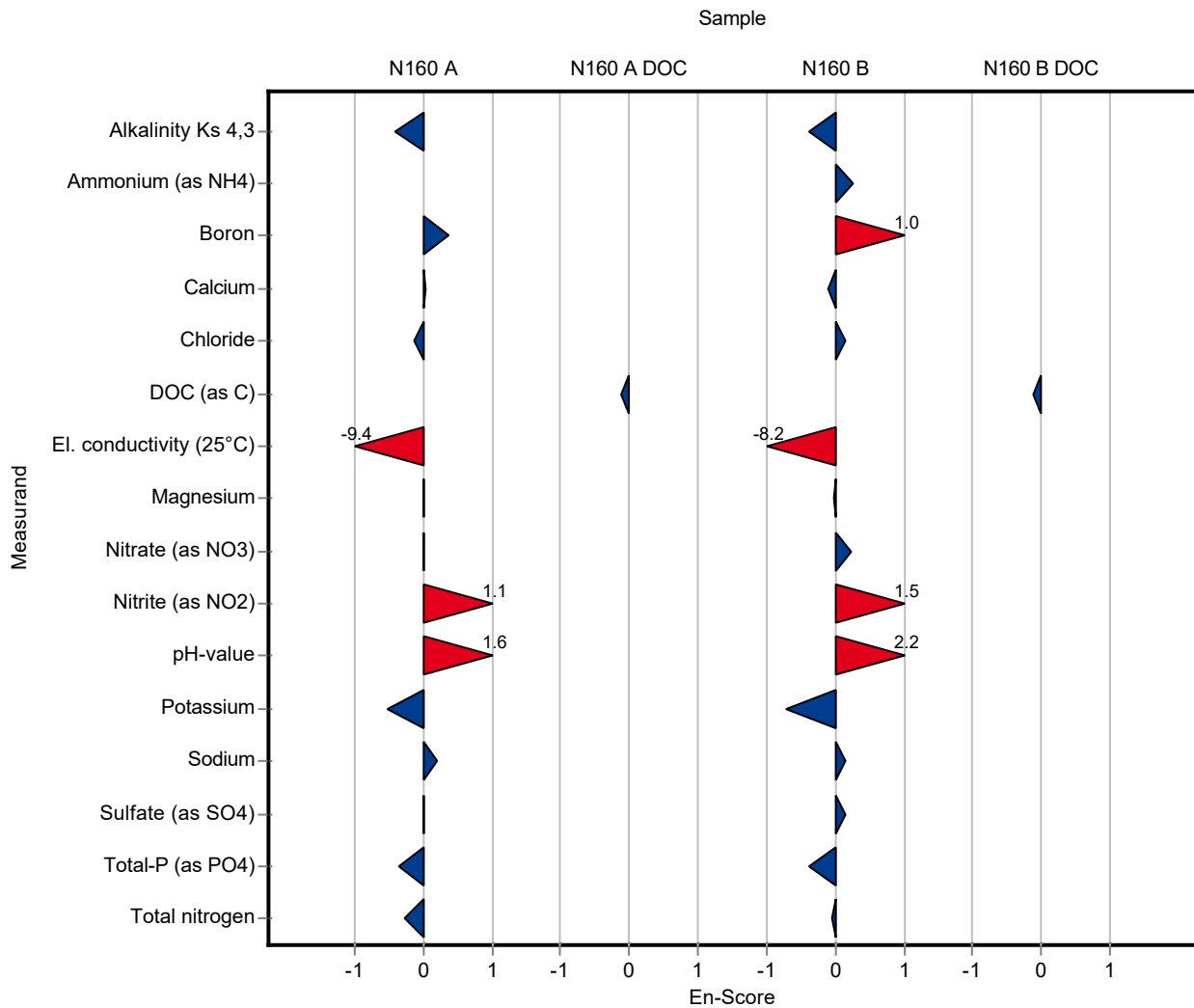
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.48 ± 0.0475	0.0704	98.9	-0.39
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.292 ± 0.0151	0.0341	103	0.24
Boron	mg/l	0.0149 ± 0.000559	0.0167 ± 0.000834	0.00164	112	1.02

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	60.69 ± 3.04	1.9	99	-0.10
Chloride	mg/l	22.3 ± 0.157	22.45 ± 0.599	0.891	101	0.14
El. conductivity (25°C)	µS/cm	474 ± 1.13	440 ± 2	6.16	92.8	-8.21
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.93 ± 0.747	0.598	99.9	-0.01
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.64 ± 0.426	0.672	102	0.23
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.2168 ± 0.00775	0.0102	112	1.50
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.21 ± 0.03	0.161	102	2.23
Potassium	mg/l	2.18 ± 0.0235	2.03 ± 0.102	0.113	93.1	-0.73
Sodium	mg/l	14.3 ± 0.118	14.46 ± 0.723	0.485	101	0.14
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.71 ± 0.771	0.973	101	0.14
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.8933 ± 0.0424	0.0694	96.5	-0.37
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	3.393 ± 0.253	0.284	99.2	-0.05

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.59 ± 0.153	0.263	98.6	-0.12



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.05 ± 0.01	0.159	101	0.66
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.03 ± 0.003	0.00952	37.8	-5.18
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	138.9 ± 5.5	4.42	97.4	-0.83
Chloride	mg/l	72.1 ± 0.47	73.79 ± 1.9	2.89	102	0.57
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1062 ± 53.1	13.6	101	0.90
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	34.88 ± 1.8	1.41	98.9	-0.27
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.1 ± 0.7	1.19	97.1	-0.57
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.32 ± 0.01	0.0153	111	2.07
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.02 ± 0.0013	0.00987	32.4	-4.22
pH-value	-	7.69 ± 0.0265	7.52 ± 0.03	0.154	97.8	-1.08
Potassium	mg/l	5.32 ± 0.0504	5.38 ± 0.31	0.277	101	0.20
Sodium	mg/l	31.6 ± 0.245	32.01 ± 0.58	1.07	101	0.37
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.69 ± 1.01	1.78	99.7	-0.10
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.99 ± 0.02	0.0891	83.3	-2.22
Total hardness	mmol/l	5 ± 0.0376	4.9 ± 0.21	0.15	97.9	-0.70
Total nitrogen	mg/l	5.67 ± 0.147	5.89 ± 0.03	0.47	104	0.48

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.79 ± 0.31	0.208	86.1	-1.39

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.13	0.0704	99.5	-0.25
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.17 ± 0.003	0.0341	59.8	-3.35
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	59.66 ± 1.98	1.9	97.3	-0.87

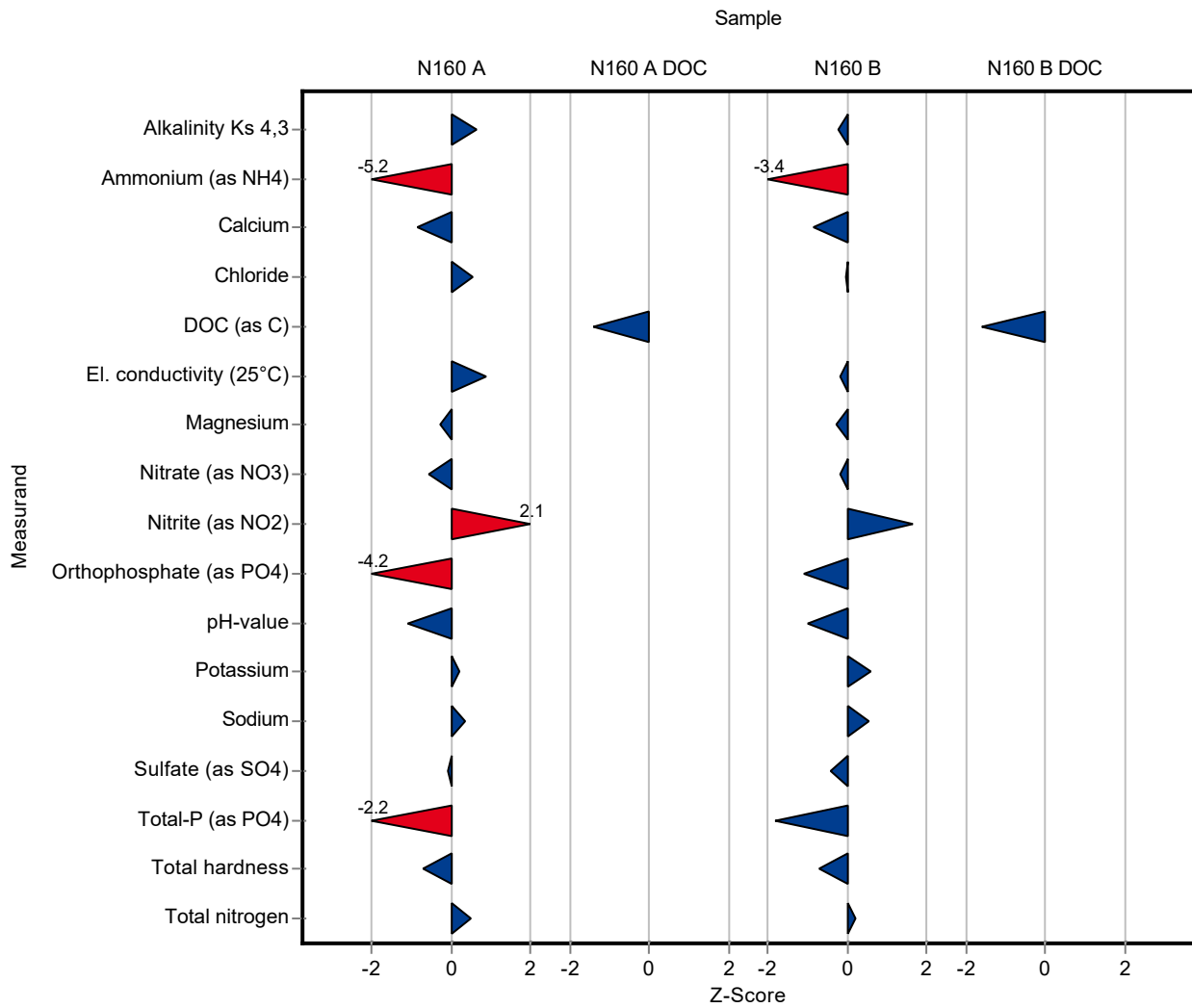
Summary of results Nutrients/Major Ions N160

Labcode: LC0050

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.25 ± 0.09	0.891	99.9	-0.03
El. conductivity (25°C)	µS/cm	474 ± 1.13	473 ± 23.65	6.16	99.8	-0.18
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.77 ± 0.31	0.598	98.8	-0.30
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.31 ± 0.25	0.672	99	-0.19
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.21 ± 0.01	0.0102	109	1.64
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.09 ± 0.006	0.0174	82.6	-1.09
pH-value	-	8.07 ± 0.019	7.91 ± 0.04	0.161	98	-0.99
Potassium	mg/l	2.18 ± 0.0235	2.25 ± 0.16	0.113	103	0.61
Sodium	mg/l	14.3 ± 0.118	14.52 ± 0.12	0.485	102	0.53
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.06 ± 0.09	0.973	98.6	-0.44
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.8 ± 0.02	0.0694	86.4	-1.81
Total hardness	mmol/l	2.14 ± 0.0185	2.1 ± 0.06	0.0643	97.9	-0.69
Total nitrogen	mg/l	3.42 ± 0.0995	3.48 ± 0.01	0.284	102	0.21

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.2 ± 0.22	0.263	83.8	-1.62



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.05 ± 0.01	0.159	101	3.17
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.03 ± 0.003	0.00952	37.8	-7.52
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	138.9 ± 5.5	4.42	97.4	-0.33
Chloride	mg/l	72.1 ± 0.47	73.79 ± 1.9	2.89	102	0.43
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1062 ± 53.1	13.6	101	0.12
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	34.88 ± 1.8	1.41	98.9	-0.10
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.1 ± 0.7	1.19	97.1	-0.48
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.32 ± 0.01	0.0153	111	1.55
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.02 ± 0.0013	0.00987	32.4	-10.00
pH-value	-	7.69 ± 0.0265	7.52 ± 0.03	0.154	97.8	-2.53
Potassium	mg/l	5.32 ± 0.0504	5.38 ± 0.31	0.277	101	0.09
Sodium	mg/l	31.6 ± 0.245	32.01 ± 0.58	1.07	101	0.33
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.69 ± 1.01	1.78	99.7	-0.08
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.99 ± 0.02	0.0891	83.3	-4.49
Total hardness	mmol/l	5 ± 0.0376	4.9 ± 0.21	0.15	97.9	-0.25
Total nitrogen	mg/l	5.67 ± 0.147	5.89 ± 0.03	0.47	104	1.41

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.79 ± 0.31	0.208	86.1	-0.47

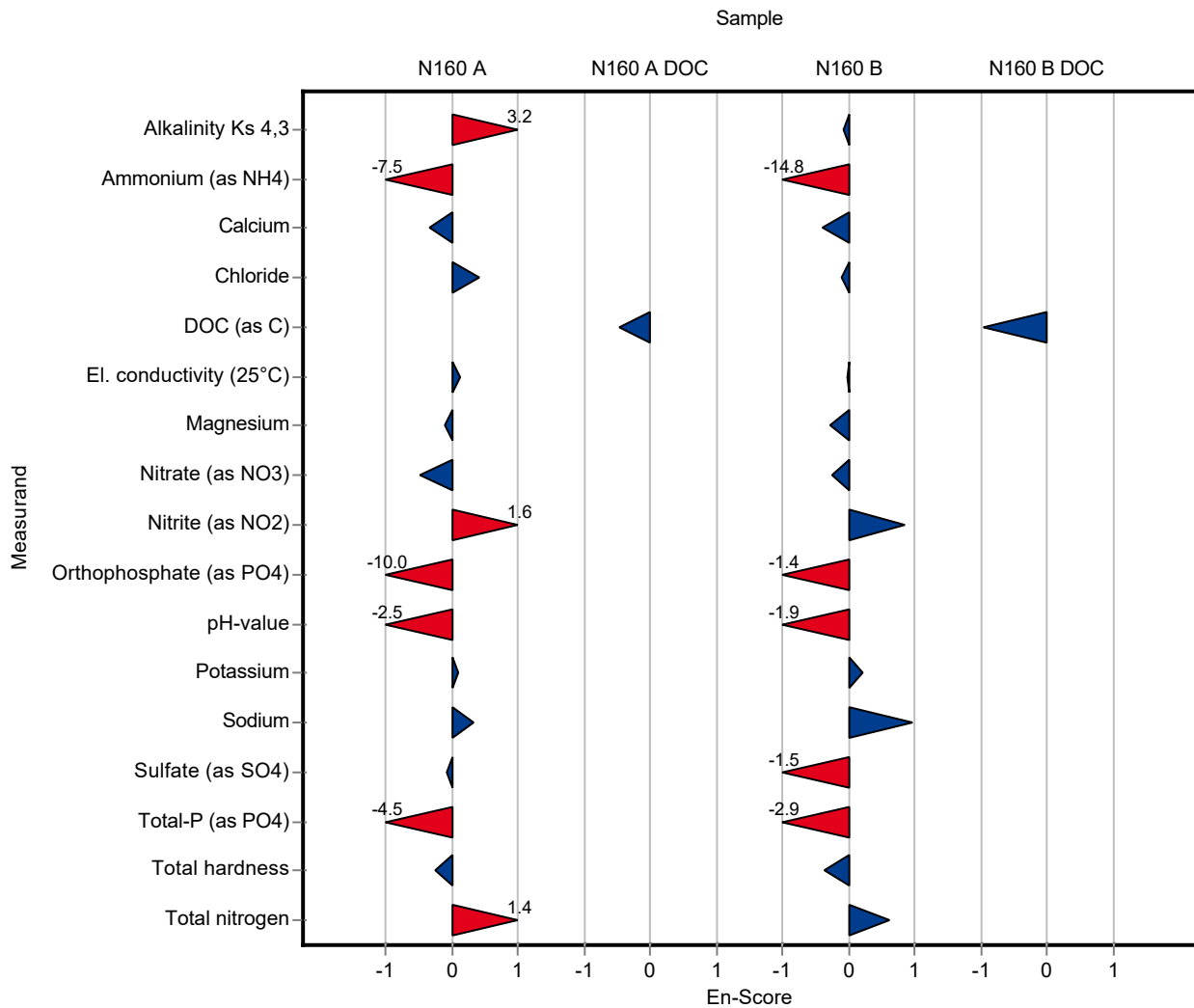
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.13	0.0704	99.5	-0.07
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.17 ± 0.003	0.0341	59.8	-14.80
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	59.66 ± 1.98	1.9	97.3	-0.41
Chloride	mg/l	22.3 ± 0.157	22.25 ± 0.09	0.891	99.9	-0.12
El. conductivity (25°C)	µS/cm	474 ± 1.13	473 ± 23.65	6.16	99.8	-0.02
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.77 ± 0.31	0.598	98.8	-0.28
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.31 ± 0.25	0.672	99	-0.25
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.21 ± 0.01	0.0102	109	0.83
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.09 ± 0.006	0.0174	82.6	-1.44
pH-value	-	8.07 ± 0.019	7.91 ± 0.04	0.161	98	-1.94
Potassium	mg/l	2.18 ± 0.0235	2.25 ± 0.16	0.113	103	0.22
Sodium	mg/l	14.3 ± 0.118	14.52 ± 0.12	0.485	102	0.97
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.06 ± 0.09	0.973	98.6	-1.55
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.8 ± 0.02	0.0694	86.4	-2.94
Total hardness	mmol/l	2.14 ± 0.0185	2.1 ± 0.06	0.0643	97.9	-0.37
Total nitrogen	mg/l	3.42 ± 0.0995	3.48 ± 0.01	0.284	102	0.60

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.2 ± 0.22	0.263	83.8	-0.96



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.65 ± 0.8	0.159	96.3	-1.86
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.078 ± 0.02	0.00952	98.3	-0.14
Boron	mg/l	0.0747 ± 0.00166	0.072 ± 0.02	0.00822	96.4	-0.33
Calcium	mg/l	143 ± 1.42	140 ± 28	4.42	98.2	-0.58
Chloride	mg/l	72.1 ± 0.47	68.3 ± 10	2.89	94.7	-1.33
El. conductivity (25°C)	µS/cm	1050 ± 3.6	986 ± 49	13.6	93.9	-4.67
Hydrogen carbonate	mg/l	483 ± 1.82	465 ± 47	9.66	96.3	-1.86
Magnesium	mg/l	35.3 ± 0.274	36.3 ± 7	1.41	103	0.74
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.8 ± 4	1.19	100	0.01
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	<0.005 (LOQ) ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<0.1 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.75 ± 0.4	0.154	101	0.41
Potassium	mg/l	5.32 ± 0.0504	5.75 ± 1	0.277	108	1.54
Sodium	mg/l	31.6 ± 0.245	31.8 ± 6	1.07	101	0.17
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	48.3 ± 7	1.78	89.7	-3.13
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.29 ± 0.3	0.0891	109	1.15
Total hardness	mmol/l	5 ± 0.0376	5.1 ± 1	0.15	102	0.64
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.9 ± 0.4	0.208	91.4	-0.86

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.35 ± 0.3	0.0704	95.2	-2.39
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.27 ± 0.05	0.0341	94.9	-0.42
Boron	mg/l	0.0149 ± 0.000559	0.014 ± 0.003	0.00164	94	-0.55
Calcium	mg/l	61.3 ± 0.649	61 ± 12	1.9	99.5	-0.16

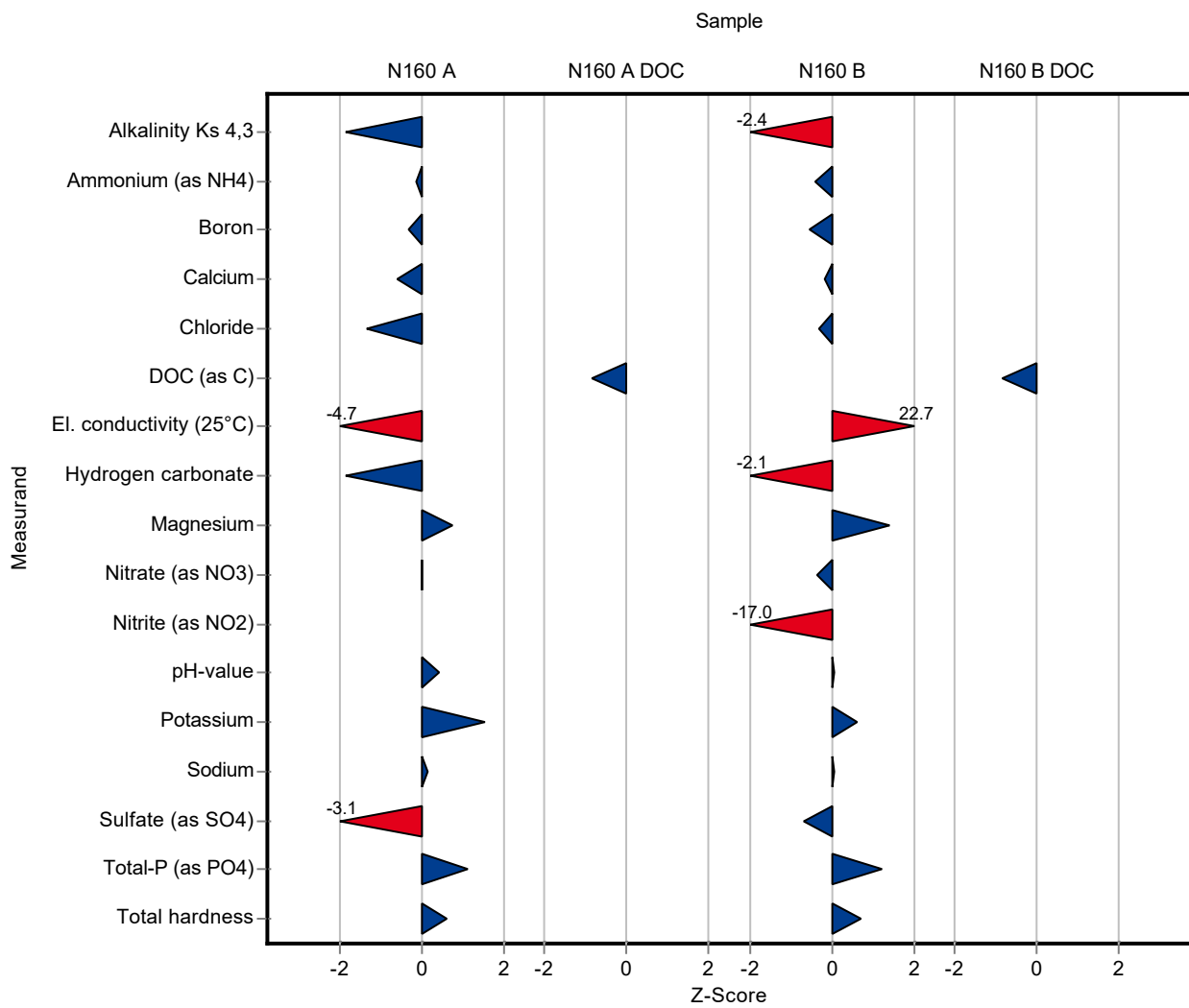
Summary of results Nutrients/Major Ions N160

Labcode: LC0051

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22 ± 3	0.891	98.7	-0.31
El. conductivity (25°C)	µS/cm	474 ± 1.13	614 ± 31	6.16	129	22.70
Hydrogen carbonate	mg/l	213 ± 1.3	204 ± 20	4.26	95.8	-2.12
Magnesium	mg/l	14.9 ± 0.135	15.8 ± 3	0.598	106	1.42
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.2 ± 2	0.672	98.2	-0.35
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.019 ± 0.003	0.0102	9.84	-17.00
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	<0.1 (LOQ) ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.08 ± 0.4	0.161	100	0.06
Potassium	mg/l	2.18 ± 0.0235	2.25 ± 0.5	0.113	103	0.61
Sodium	mg/l	14.3 ± 0.118	14.3 ± 3	0.485	100	0.08
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.8 ± 4	0.973	97.7	-0.70
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.01 ± 0.2	0.0694	109	1.22
Total hardness	mmol/l	2.14 ± 0.0185	2.19 ± 0.4	0.0643	102	0.70
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.4 ± 0.5	0.263	91.4	-0.86



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.65 ± 0.8	0.159	96.3	-0.18
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.078 ± 0.02	0.00952	98.3	-0.03
Boron	mg/l	0.0747 ± 0.00166	0.072 ± 0.02	0.00822	96.4	-0.07
Calcium	mg/l	143 ± 1.42	140 ± 28	4.42	98.2	-0.05
Chloride	mg/l	72.1 ± 0.47	68.3 ± 10	2.89	94.7	-0.19
El. conductivity (25°C)	µS/cm	1050 ± 3.6	986 ± 49	13.6	93.9	-0.65
Hydrogen carbonate	mg/l	483 ± 1.82	465 ± 47	9.66	96.3	-0.19
Magnesium	mg/l	35.3 ± 0.274	36.3 ± 7	1.41	103	0.07
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.8 ± 4	1.19	100	0.00
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	<0.005 (LOQ) ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<0.1 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.75 ± 0.4	0.154	101	0.08
Potassium	mg/l	5.32 ± 0.0504	5.75 ± 1	0.277	108	0.21
Sodium	mg/l	31.6 ± 0.245	31.8 ± 6	1.07	101	0.02
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	48.3 ± 7	1.78	89.7	-0.40
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.29 ± 0.3	0.0891	109	0.17
Total hardness	mmol/l	5 ± 0.0376	5.1 ± 1	0.15	102	0.05
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.9 ± 0.4	0.208	91.4	-0.22

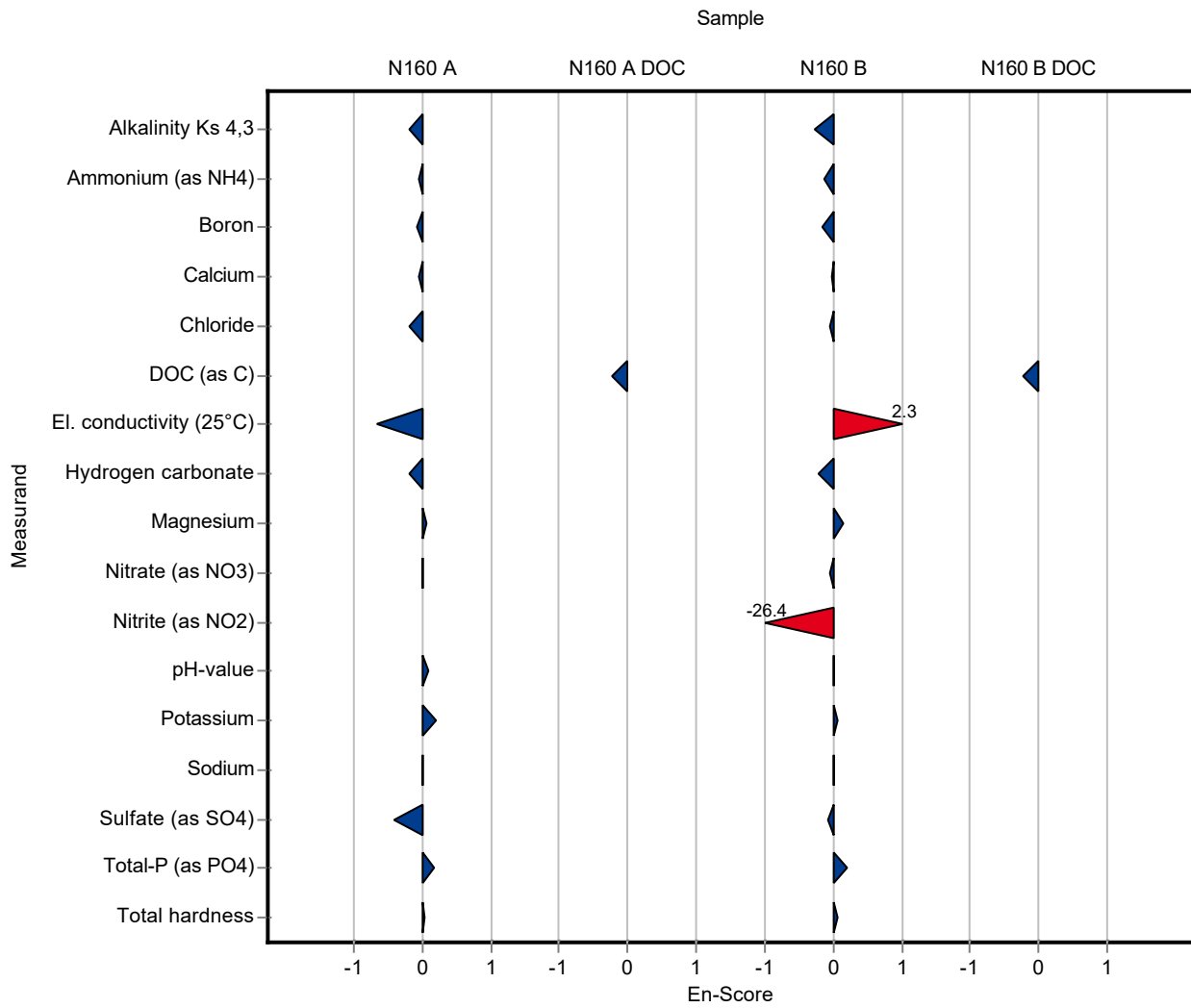
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.35 ± 0.3	0.0704	95.2	-0.28
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.27 ± 0.05	0.0341	94.9	-0.14
Boron	mg/l	0.0149 ± 0.000559	0.014 ± 0.003	0.00164	94	-0.15

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61 ± 12	1.9	99.5	-0.01
Chloride	mg/l	22.3 ± 0.157	22 ± 3	0.891	98.7	-0.05
El. conductivity (25°C)	µS/cm	474 ± 1.13	614 ± 31	6.16	129	2.26
Hydrogen carbonate	mg/l	213 ± 1.3	204 ± 20	4.26	95.8	-0.23
Magnesium	mg/l	14.9 ± 0.135	15.8 ± 3	0.598	106	0.14
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.2 ± 2	0.672	98.2	-0.06
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.019 ± 0.003	0.0102	9.84	-26.40
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	<0.1 (LOQ) ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.08 ± 0.4	0.161	100	0.01
Potassium	mg/l	2.18 ± 0.0235	2.25 ± 0.5	0.113	103	0.07
Sodium	mg/l	14.3 ± 0.118	14.3 ± 3	0.485	100	0.01
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.8 ± 4	0.973	97.7	-0.09
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.01 ± 0.2	0.0694	109	0.21
Total hardness	mmol/l	2.14 ± 0.0185	2.19 ± 0.4	0.0643	102	0.06
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.4 ± 0.5	0.263	91.4	-0.23



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.92 ± 1.8	0.159	99.7	-0.16
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.082 ± 0.016	0.00952	103	0.28
Boron	mg/l	0.0747 ± 0.00166	0.07 ± 0.011	0.00822	93.7	-0.57
Calcium	mg/l	143 ± 1.42	147 ± 10	4.42	103	1.00
Chloride	mg/l	72.1 ± 0.47	73.6 ± 3.7	2.89	102	0.50
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1015 ± 91.3	13.6	96.7	-2.54
Hydrogen carbonate	mg/l	483 ± 1.82	483 ± 61	9.66	100	0.01
Magnesium	mg/l	35.3 ± 0.274	35.3 ± 2.8	1.41	100	0.03
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.7 ± 1.7	1.19	104	0.77
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.312 ± 0.05	0.0153	108	1.54
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.05 ± 0.03	0.00987	81.1	-1.18
pH-value	-	7.69 ± 0.0265	7.6 ± 0.1	0.154	98.9	-0.56
Potassium	mg/l	5.32 ± 0.0504	5.35 ± 0.8	0.277	100	0.09
Sodium	mg/l	31.6 ± 0.245	32.3 ± 3.6	1.07	102	0.64
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.2 ± 3.3	1.78	102	0.75
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.21 ± 0.38	0.0891	102	0.25
Total hardness	mmol/l	5 ± 0.0376	5.14 ± 0.41	0.15	103	0.90
Total nitrogen	mg/l	5.67 ± 0.147	5.4 ± 1.26	0.47	95.3	-0.56

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.99 ± 0.2	0.208	95.7	-0.43

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.72 ± 0.97	0.0704	106	2.87
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.3 ± 0.06	0.0341	105	0.45
Boron	mg/l	0.0149 ± 0.000559	<0.02 (LOQ) ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	63.3 ± 4.4	1.9	103	1.05

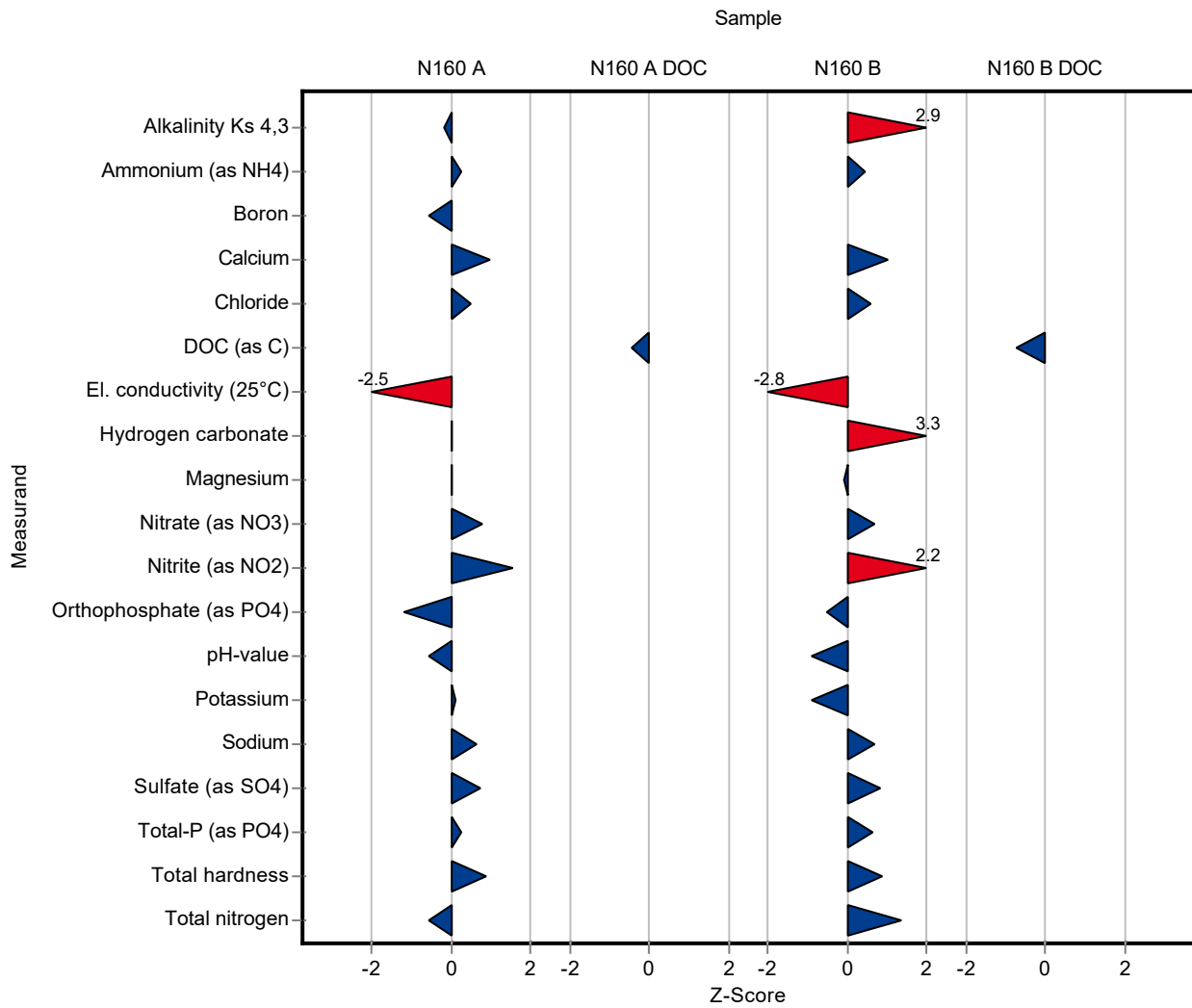
Summary of results Nutrients/Major Ions N160

Labcode: LC0052

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.8 ± 1.1	0.891	102	0.58
El. conductivity (25°C)	µS/cm	474 ± 1.13	457 ± 41.3	6.16	96.4	-2.78
Hydrogen carbonate	mg/l	213 ± 1.3	227 ± 32	4.26	107	3.28
Magnesium	mg/l	14.9 ± 0.135	14.9 ± 1.2	0.598	99.7	-0.08
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.9 ± 1	0.672	103	0.69
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.216 ± 0.034	0.0102	112	2.23
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.1 ± 0.05	0.0174	91.8	-0.51
pH-value	-	8.07 ± 0.019	7.92 ± 0.1	0.161	98.1	-0.93
Potassium	mg/l	2.18 ± 0.0235	2.08 ± 0.3	0.113	95.4	-0.89
Sodium	mg/l	14.3 ± 0.118	14.6 ± 1.6	0.485	102	0.70
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.3 ± 1.8	0.973	103	0.84
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.97 ± 0.31	0.0694	105	0.64
Total hardness	mmol/l	2.14 ± 0.0185	2.2 ± 0.18	0.0643	103	0.86
Total nitrogen	mg/l	3.42 ± 0.0995	3.81 ± 0.99	0.284	111	1.38

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.43 ± 0.24	0.263	92.5	-0.75



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.92 ± 1.8	0.159	99.7	-0.01
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.082 ± 0.016	0.00952	103	0.08
Boron	mg/l	0.0747 ± 0.00166	0.07 ± 0.011	0.00822	93.7	-0.21
Calcium	mg/l	143 ± 1.42	147 ± 10	4.42	103	0.22
Chloride	mg/l	72.1 ± 0.47	73.6 ± 3.7	2.89	102	0.20
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1015 ± 91.3	13.6	96.7	-0.19
Hydrogen carbonate	mg/l	483 ± 1.82	483 ± 61	9.66	100	0.00
Magnesium	mg/l	35.3 ± 0.274	35.3 ± 2.8	1.41	100	0.01
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.7 ± 1.7	1.19	104	0.27
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.312 ± 0.05	0.0153	108	0.24
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.05 ± 0.03	0.00987	81.1	-0.19
pH-value	-	7.69 ± 0.0265	7.6 ± 0.1	0.154	98.9	-0.43
Potassium	mg/l	5.32 ± 0.0504	5.35 ± 0.8	0.277	100	0.02
Sodium	mg/l	31.6 ± 0.245	32.3 ± 3.6	1.07	102	0.10
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.2 ± 3.3	1.78	102	0.20
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.21 ± 0.38	0.0891	102	0.03
Total hardness	mmol/l	5 ± 0.0376	5.14 ± 0.41	0.15	103	0.17
Total nitrogen	mg/l	5.67 ± 0.147	5.4 ± 1.26	0.47	95.3	-0.10

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.99 ± 0.2	0.208	95.7	-0.22

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.72 ± 0.97	0.0704	106	0.10
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.3 ± 0.06	0.0341	105	0.13
Boron	mg/l	0.0149 ± 0.000559	<0.02 (LOQ) ± -	0.00164	-	-

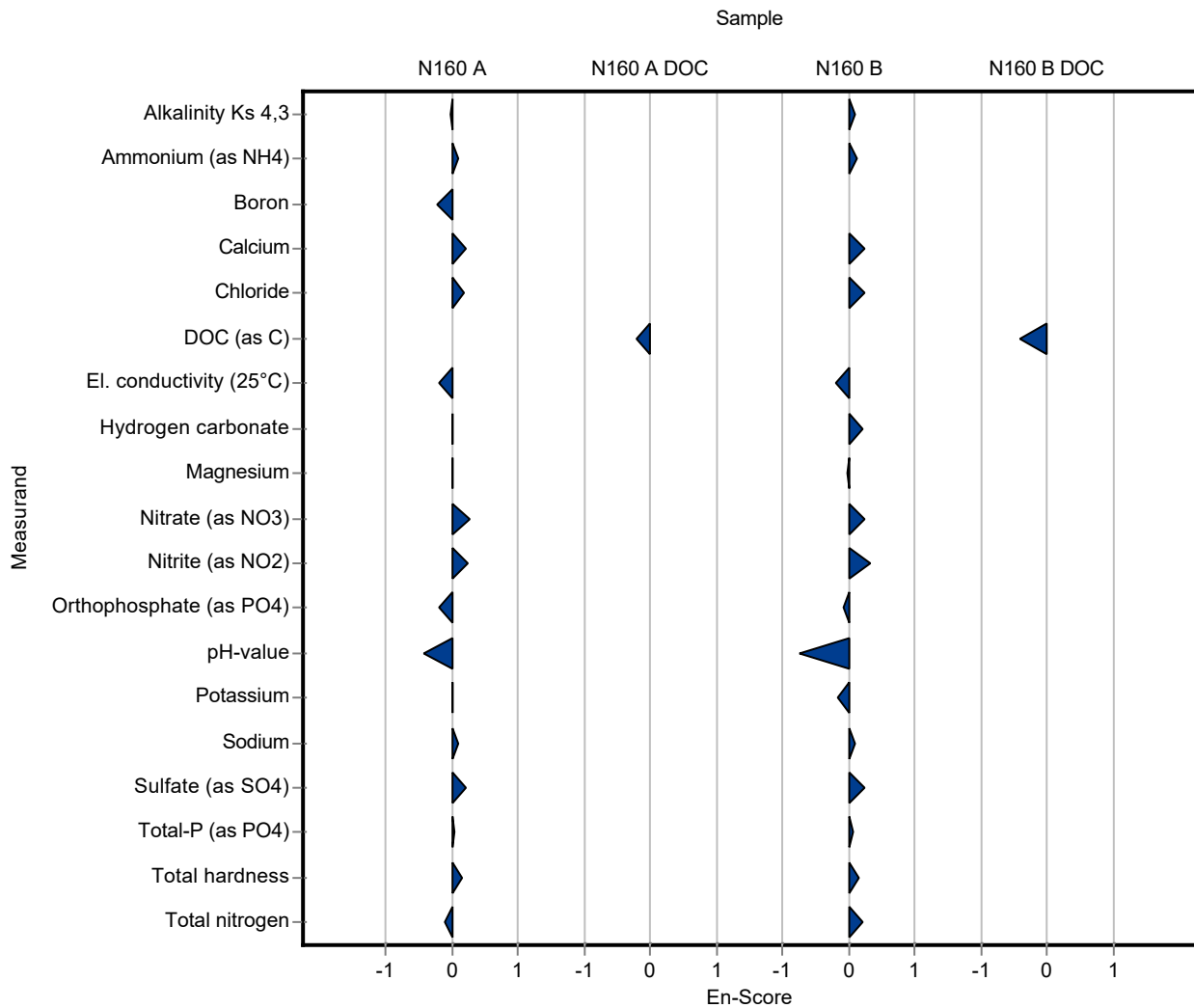
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0052

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	63.3 ± 4.4	1.9	103	0.23
Chloride	mg/l	22.3 ± 0.157	22.8 ± 1.1	0.891	102	0.24
El. conductivity (25°C)	µS/cm	474 ± 1.13	457 ± 41.3	6.16	96.4	-0.21
Hydrogen carbonate	mg/l	213 ± 1.3	227 ± 32	4.26	107	0.22
Magnesium	mg/l	14.9 ± 0.135	14.9 ± 1.2	0.598	99.7	-0.02
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.9 ± 1	0.672	103	0.23
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.216 ± 0.034	0.0102	112	0.34
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.1 ± 0.05	0.0174	91.8	-0.09
pH-value	-	8.07 ± 0.019	7.92 ± 0.1	0.161	98.1	-0.75
Potassium	mg/l	2.18 ± 0.0235	2.08 ± 0.3	0.113	95.4	-0.17
Sodium	mg/l	14.3 ± 0.118	14.6 ± 1.6	0.485	102	0.11
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.3 ± 1.8	0.973	103	0.23
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.97 ± 0.31	0.0694	105	0.07
Total hardness	mmol/l	2.14 ± 0.0185	2.2 ± 0.18	0.0643	103	0.15
Total nitrogen	mg/l	3.42 ± 0.0995	3.81 ± 0.99	0.284	111	0.20

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.43 ± 0.24	0.263	92.5	-0.41



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.724 ± 0.066	0.159	97.2	-1.39
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0834 ± 0.0043	0.00952	105	0.43
Boron	mg/l	0.0747 ± 0.00166	0.07559 ± 0.0132	0.00822	101	0.11
Calcium	mg/l	143 ± 1.42	143.67 ± 11.8	4.42	101	0.25
Chloride	mg/l	72.1 ± 0.47	70.12 ± 5.86	2.89	97.2	-0.70
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1050 ± 12.6	13.6	100	0.02
Hydrogen carbonate	mg/l	483 ± 1.82	471.2 ± 4.71	9.66	97.6	-1.22
Magnesium	mg/l	35.3 ± 0.274	35.03 ± 3.02	1.41	99.4	-0.16
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.36 ± 2.64	1.19	98.2	-0.35
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.283 ± 0.01	0.0153	98.1	-0.35
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0531 ± 0.0053	0.00987	86.1	-0.87
pH-value	-	7.69 ± 0.0265	7.626 ± 0.03	0.154	99.2	-0.39
Potassium	mg/l	5.32 ± 0.0504	5.3 ± 0.472	0.277	99.6	-0.09
Sodium	mg/l	31.6 ± 0.245	30.93 ± 2.42	1.07	97.8	-0.64
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.01 ± 5.56	1.78	100	0.08
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.332 ± 0.085	0.0891	112	1.62
Total hardness	mmol/l	5 ± 0.0376	5.03 ± 0.32	0.15	101	0.17
Total nitrogen	mg/l	5.67 ± 0.147	5.27 ± 0.524	0.47	93	-0.84

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.71 ± 0.302	0.208	130	3.03

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.376 ± 0.029	0.0704	96	-2.02
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.2976 ± 0.0156	0.0341	105	0.38
Boron	mg/l	0.0149 ± 0.000559	0.0147 ± 0.0026	0.00164	98.7	-0.12
Calcium	mg/l	61.3 ± 0.649	61.13 ± 5.02	1.9	99.7	-0.09

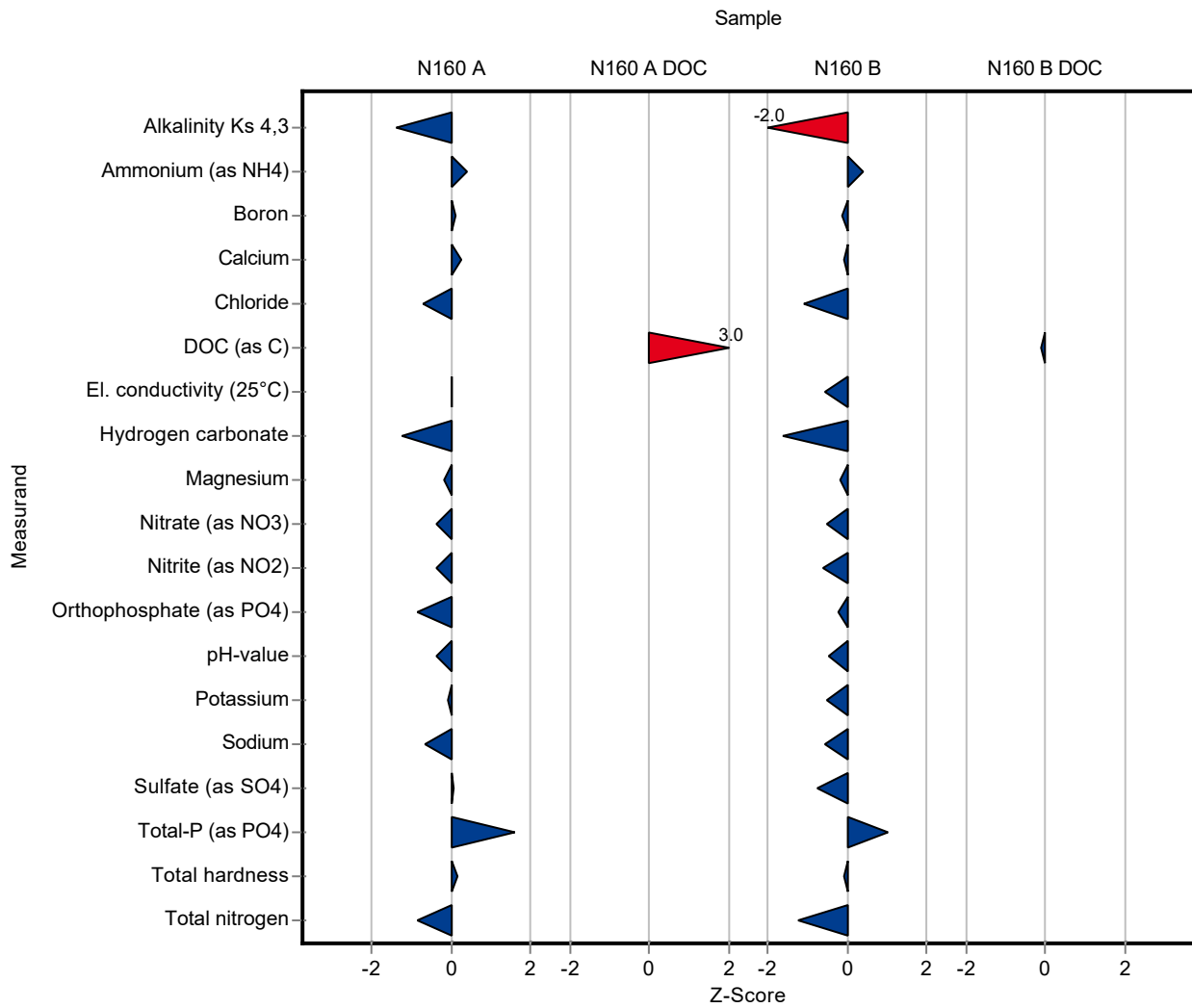
Summary of results Nutrients/Major Ions N160

Labcode: LC0053

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.3 ± 1.77	0.891	95.6	-1.10
El. conductivity (25°C)	µS/cm	474 ± 1.13	470.5 ± 5.65	6.16	99.2	-0.59
Hydrogen carbonate	mg/l	213 ± 1.3	206 ± 2.06	4.26	96.7	-1.65
Magnesium	mg/l	14.9 ± 0.135	14.84 ± 1.28	0.598	99.3	-0.18
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.09 ± 1.48	0.672	97.4	-0.52
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.187 ± 0.006	0.0102	96.8	-0.60
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.1048 ± 0.0105	0.0174	96.2	-0.24
pH-value	-	8.07 ± 0.019	7.995 ± 0.03	0.161	99.1	-0.46
Potassium	mg/l	2.18 ± 0.0235	2.12 ± 0.189	0.113	97.2	-0.53
Sodium	mg/l	14.3 ± 0.118	13.99 ± 1.09	0.485	98.1	-0.56
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.75 ± 2.96	0.973	97.5	-0.76
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.996 ± 0.0635	0.0694	108	1.02
Total hardness	mmol/l	2.14 ± 0.0185	2.14 ± 0.136	0.0643	99.8	-0.07
Total nitrogen	mg/l	3.42 ± 0.0995	3.06 ± 0.304	0.284	89.5	-1.27

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.6 ± 0.289	0.263	99	-0.10



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.724 ± 0.066	0.159	97.2	-1.64
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0834 ± 0.0043	0.00952	105	0.45
Boron	mg/l	0.0747 ± 0.00166	0.07559 ± 0.0132	0.00822	101	0.03
Calcium	mg/l	143 ± 1.42	143.67 ± 11.8	4.42	101	0.05
Chloride	mg/l	72.1 ± 0.47	70.12 ± 5.86	2.89	97.2	-0.17
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1050 ± 12.6	13.6	100	0.01
Hydrogen carbonate	mg/l	483 ± 1.82	471.2 ± 4.71	9.66	97.6	-1.22
Magnesium	mg/l	35.3 ± 0.274	35.03 ± 3.02	1.41	99.4	-0.04
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.36 ± 2.64	1.19	98.2	-0.08
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.283 ± 0.01	0.0153	98.1	-0.27
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0531 ± 0.0053	0.00987	86.1	-0.77
pH-value	-	7.69 ± 0.0265	7.626 ± 0.03	0.154	99.2	-0.92
Potassium	mg/l	5.32 ± 0.0504	5.3 ± 0.472	0.277	99.6	-0.03
Sodium	mg/l	31.6 ± 0.245	30.93 ± 2.42	1.07	97.8	-0.14
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.01 ± 5.56	1.78	100	0.01
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.332 ± 0.085	0.0891	112	0.84
Total hardness	mmol/l	5 ± 0.0376	5.03 ± 0.32	0.15	101	0.04
Total nitrogen	mg/l	5.67 ± 0.147	5.27 ± 0.524	0.47	93	-0.37

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.71 ± 0.302	0.208	130	1.04

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.376 ± 0.029	0.0704	96	-2.38
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.2976 ± 0.0156	0.0341	105	0.41
Boron	mg/l	0.0149 ± 0.000559	0.0147 ± 0.0026	0.00164	98.7	-0.04

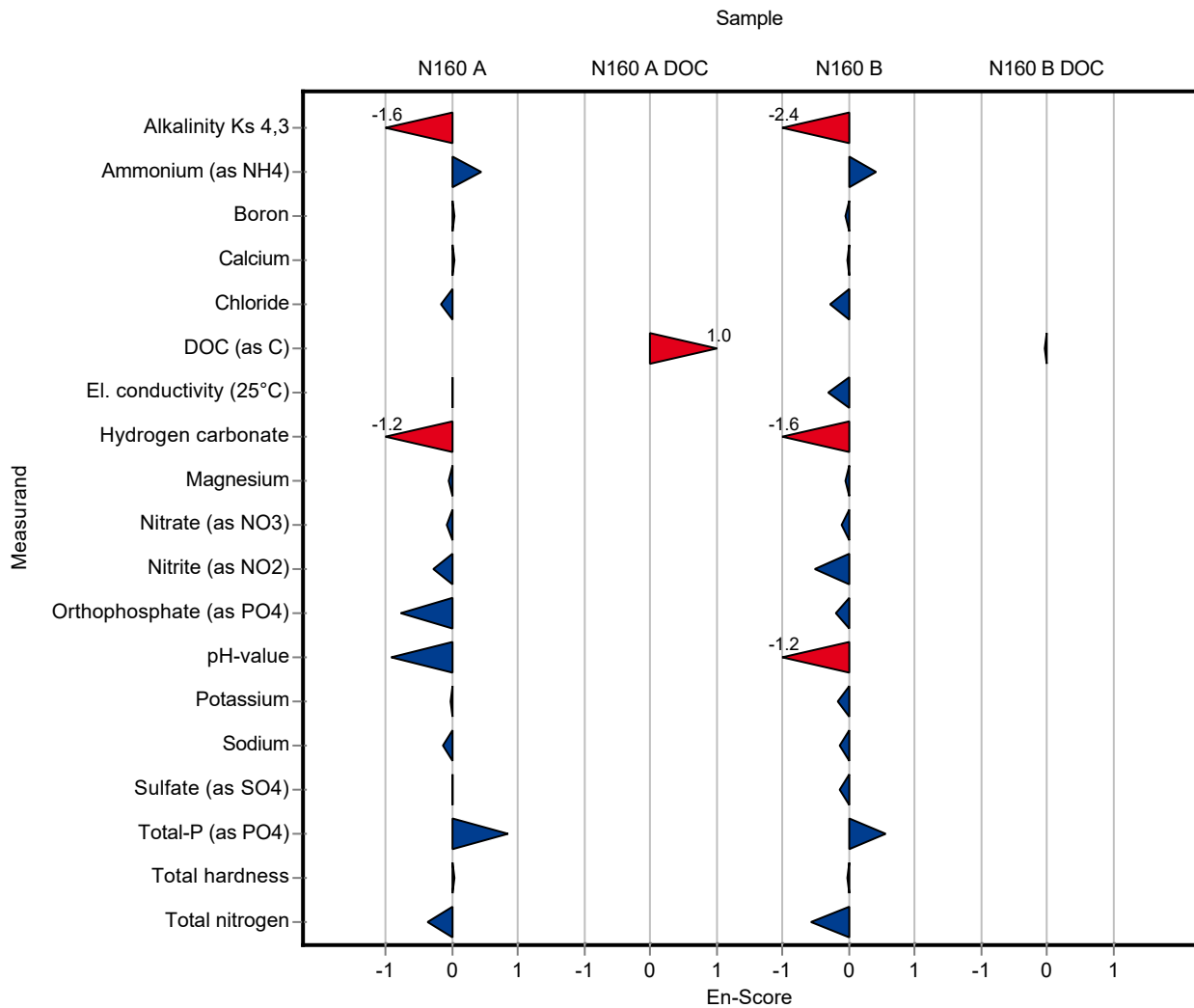
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0053

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61.13 ± 5.02	1.9	99.7	-0.02
Chloride	mg/l	22.3 ± 0.157	21.3 ± 1.77	0.891	95.6	-0.28
El. conductivity (25°C)	µS/cm	474 ± 1.13	470.5 ± 5.65	6.16	99.2	-0.32
Hydrogen carbonate	mg/l	213 ± 1.3	206 ± 2.06	4.26	96.7	-1.63
Magnesium	mg/l	14.9 ± 0.135	14.84 ± 1.28	0.598	99.3	-0.04
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.09 ± 1.48	0.672	97.4	-0.12
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.187 ± 0.006	0.0102	96.8	-0.50
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.1048 ± 0.0105	0.0174	96.2	-0.19
pH-value	-	8.07 ± 0.019	7.995 ± 0.03	0.161	99.1	-1.19
Potassium	mg/l	2.18 ± 0.0235	2.12 ± 0.189	0.113	97.2	-0.16
Sodium	mg/l	14.3 ± 0.118	13.99 ± 1.09	0.485	98.1	-0.12
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.75 ± 2.96	0.973	97.5	-0.12
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.996 ± 0.0635	0.0694	108	0.55
Total hardness	mmol/l	2.14 ± 0.0185	2.14 ± 0.136	0.0643	99.8	-0.02
Total nitrogen	mg/l	3.42 ± 0.0995	3.06 ± 0.304	0.284	89.5	-0.58

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.6 ± 0.289	0.263	99	-0.05



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.01 ± 0.216	0.159	101	0.41
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	147.4 ± 7.58	4.42	103	1.09
Chloride	mg/l	72.1 ± 0.47	73.6 ± 7.95	2.89	102	0.50
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1054 ± 13.07	13.6	100	0.32
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	33.37 ± 3.811	1.41	94.7	-1.34
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.83 ± 2.57	1.19	100	0.04
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.65 ± 0.077	0.154	99.5	-0.23
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.11 ± 2.13	1.78	102	0.70
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	5.051 ± 0.575	0.15	101	0.31
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.54 ± 0.0956	0.0704	101	0.32
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	62.83 ± 3.236	1.9	102	0.80

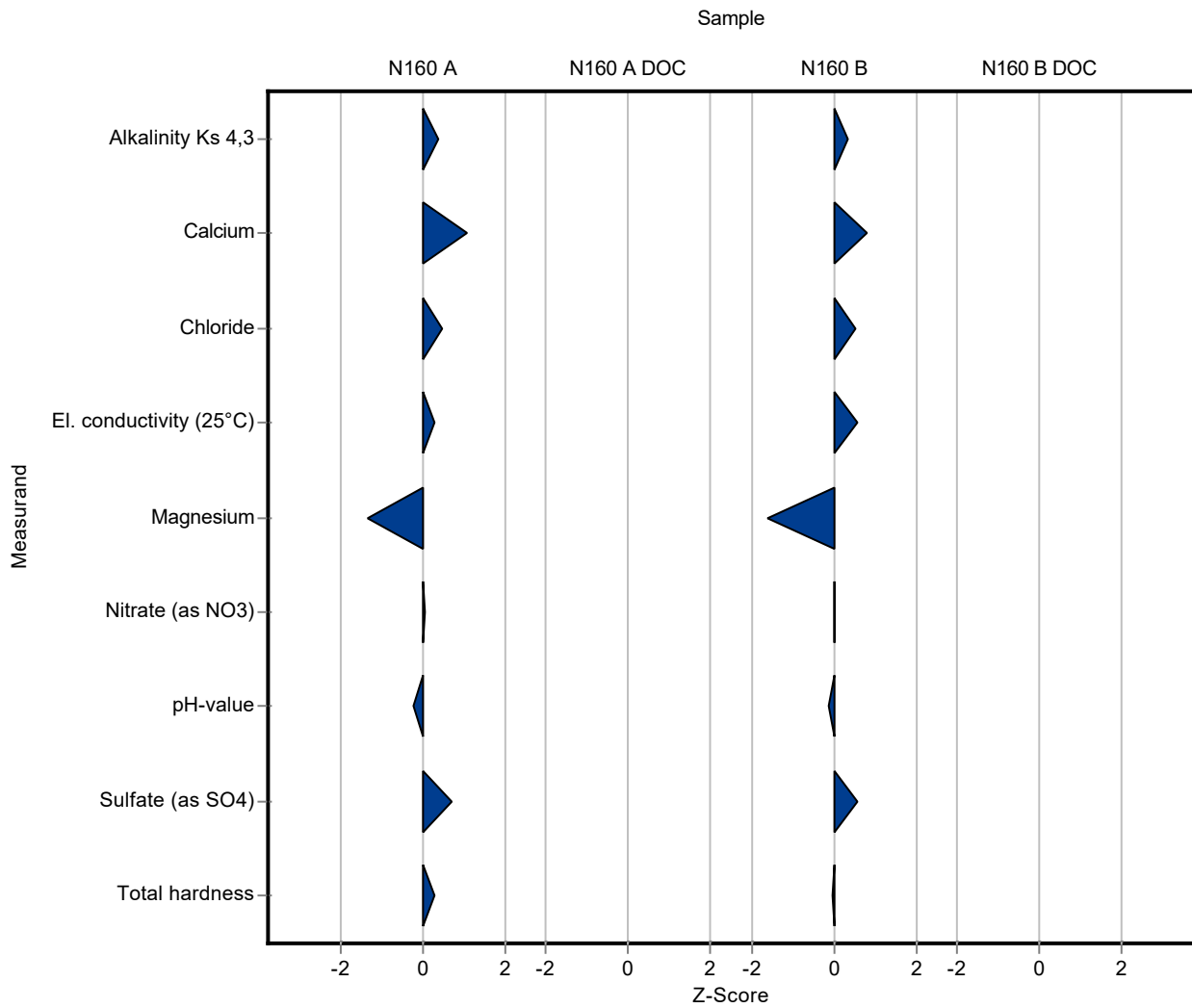
Summary of results Nutrients/Major Ions N160

Labcode: LC0054

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.74 ± 2.485	0.891	102	0.52
El. conductivity (25°C)	µS/cm	474 ± 1.13	477.5 ± 5.921	6.16	101	0.55
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	13.98 ± 1.59	0.598	93.5	-1.62
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.46 ± 0.627	0.672	100	0.03
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.05 ± 0.085	0.161	99.8	-0.12
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.04 ± 1.175	0.973	102	0.57
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.143 ± 0.2437	0.0643	99.9	-0.03
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.01 ± 0.216	0.159	101	0.15
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	147.4 ± 7.58	4.42	103	0.32
Chloride	mg/l	72.1 ± 0.47	73.6 ± 7.95	2.89	102	0.09
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1054 ± 13.07	13.6	100	0.16
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	33.37 ± 3.811	1.41	94.7	-0.25
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.83 ± 2.57	1.19	100	0.01
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.65 ± 0.077	0.154	99.5	-0.23
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.11 ± 2.13	1.78	102	0.29
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	5.051 ± 0.575	0.15	101	0.04
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

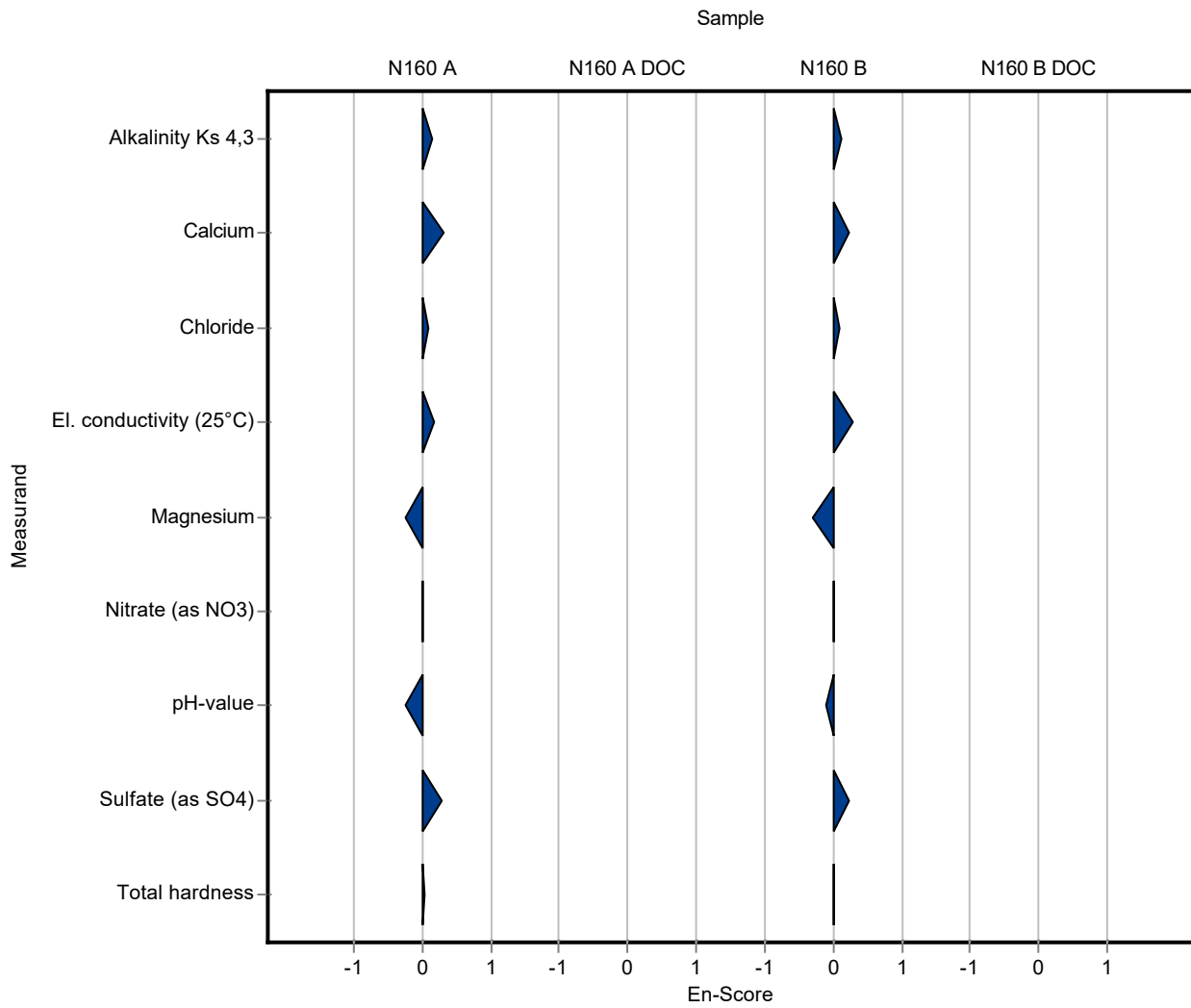
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.54 ± 0.0956	0.0704	101	0.12
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	62.83 ± 3.236	1.9	102	0.23
Chloride	mg/l	22.3 ± 0.157	22.74 ± 2.485	0.891	102	0.09
El. conductivity (25°C)	µS/cm	474 ± 1.13	477.5 ± 5.921	6.16	101	0.28
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	13.98 ± 1.59	0.598	93.5	-0.30
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.46 ± 0.627	0.672	100	0.02
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.05 ± 0.085	0.161	99.8	-0.12
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.04 ± 1.175	0.973	102	0.24
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.143 ± 0.2437	0.0643	99.9	0.00
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	154.605 ± 1.14	4.42	108	2.72
Chloride	mg/l	72.1 ± 0.47	63.834 ± 0.4	2.89	88.5	-2.88
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	34.521 ± 0.74	1.41	97.9	-0.52
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	21.215 ± 0.22	1.19	89.2	-2.16
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	5.05 ± 0.46	0.277	94.9	-0.99
Sodium	mg/l	31.6 ± 0.245	33.219 ± 0.12	1.07	105	1.49
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	50.351 ± 0.97	1.78	93.5	-1.98
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.2 ± 0.2	0.208	106	0.58

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	67.04 ± 0.86	1.9	109	3.02

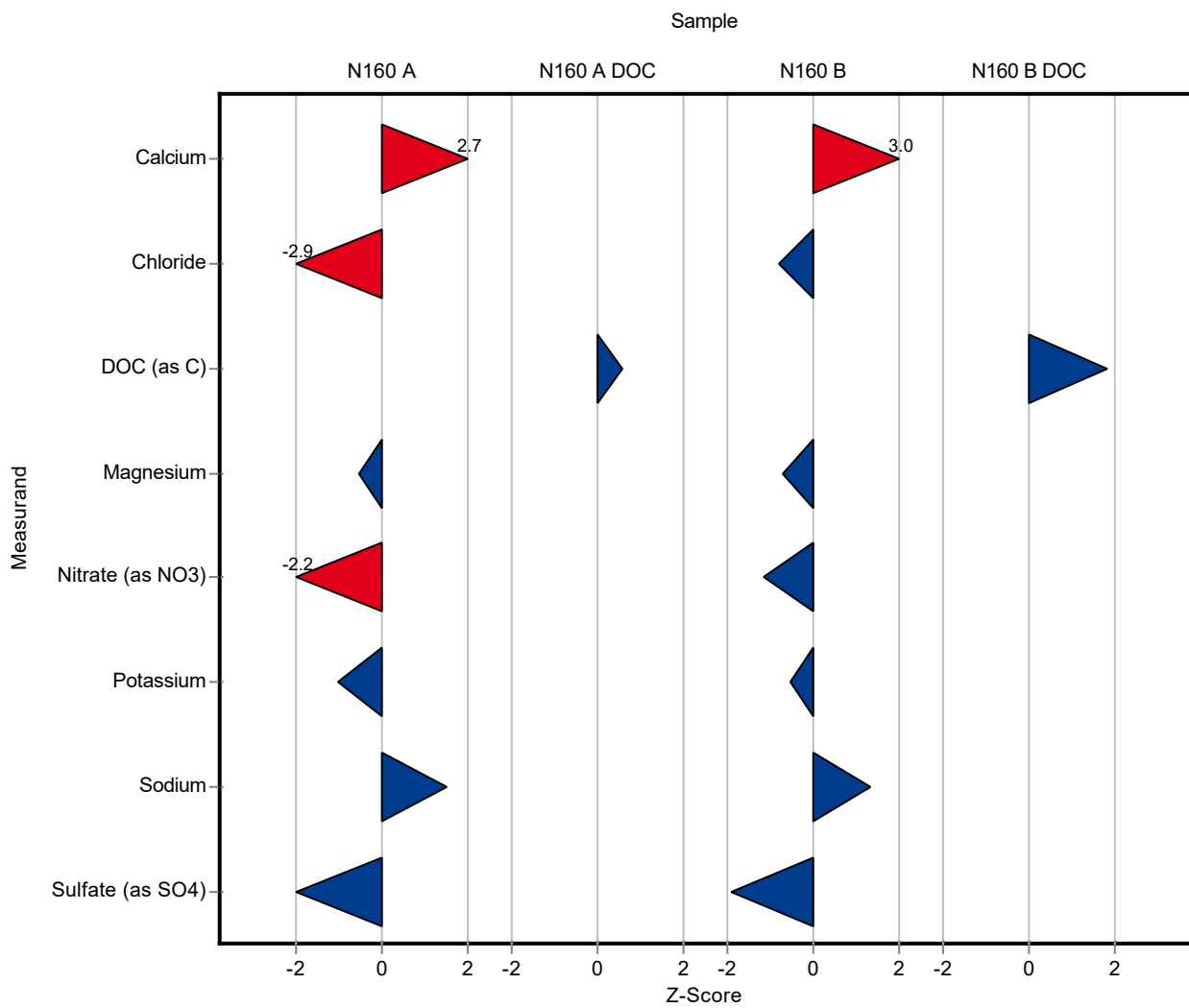
Summary of results Nutrients/Major Ions N160

Labcode: LC0055

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.58 ± 0.16	0.891	96.9	-0.79
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.535 ± 0.34	0.598	97.2	-0.69
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.668 ± 0.2	0.672	94.3	-1.15
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	2.118 ± 0.18	0.113	97.1	-0.55
Sodium	mg/l	14.3 ± 0.118	14.898 ± 0.18	0.485	104	1.31
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	27.635 ± 0.69	0.973	93.7	-1.90
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	3.1 ± 0.2	0.263	118	1.80



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	154.605 ± 1.14	4.42	108	4.48
Chloride	mg/l	72.1 ± 0.47	63.834 ± 0.4	2.89	88.5	-8.96
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	34.521 ± 0.74	1.41	97.9	-0.49
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	21.215 ± 0.22	1.19	89.2	-5.16
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	5.05 ± 0.46	0.277	94.9	-0.30
Sodium	mg/l	31.6 ± 0.245	33.219 ± 0.12	1.07	105	4.68
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	50.351 ± 0.97	1.78	93.5	-1.77
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.2 ± 0.2	0.208	106	0.30

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

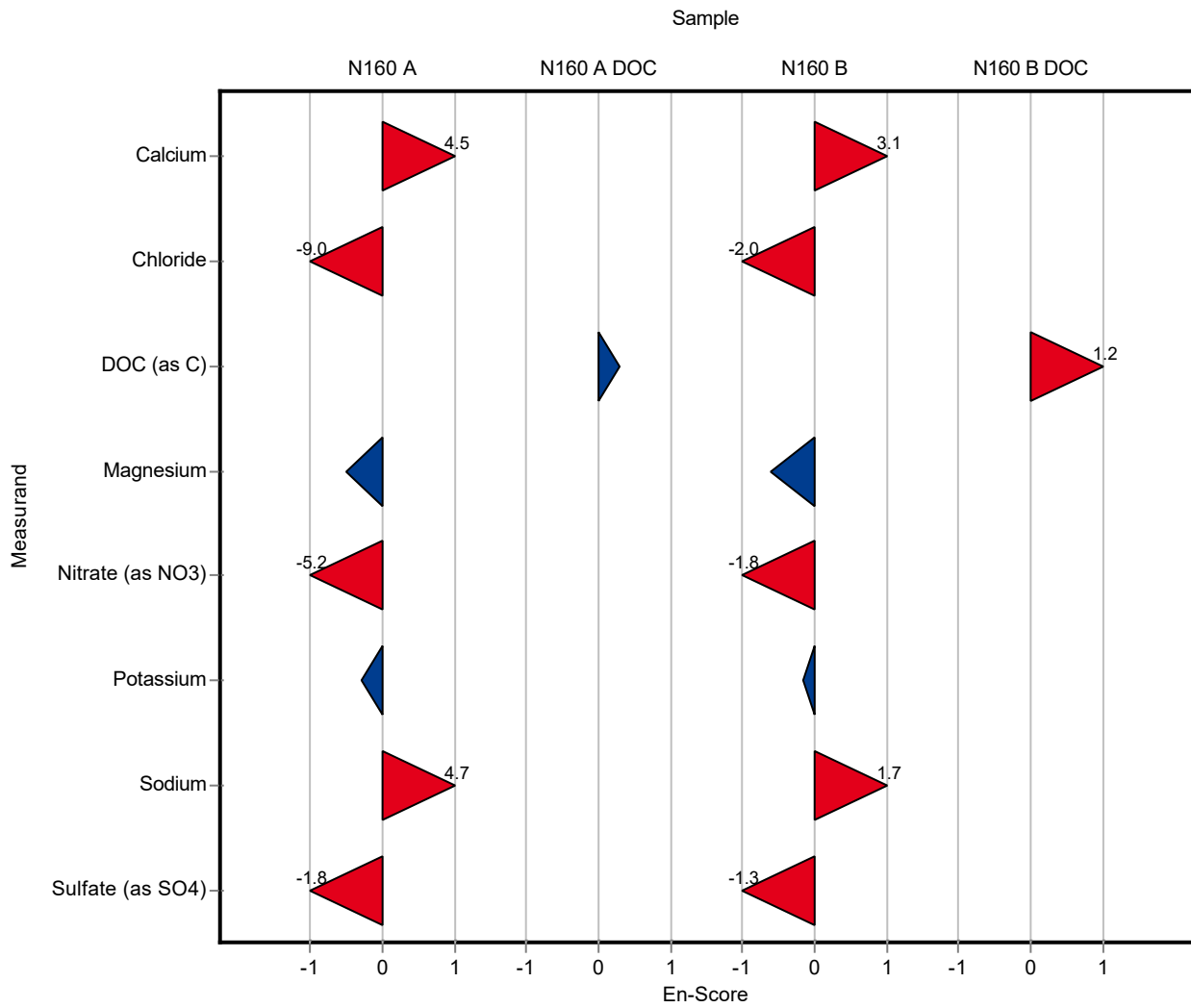
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0055

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	67.04 ± 0.86	1.9	109	3.12
Chloride	mg/l	22.3 ± 0.157	21.58 ± 0.16	0.891	96.9	-1.96
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.535 ± 0.34	0.598	97.2	-0.60
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.668 ± 0.2	0.672	94.3	-1.83
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	2.118 ± 0.18	0.113	97.1	-0.17
Sodium	mg/l	14.3 ± 0.118	14.898 ± 0.18	0.485	104	1.68
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	27.635 ± 0.69	0.973	93.7	-1.33
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	3.1 ± 0.2	0.263	118	1.17



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.93 ± 0.11	0.159	99.8	-0.10
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.079 ± 0.055	0.00952	99.6	-0.04
Boron	mg/l	0.0747 ± 0.00166	0.068 ± 0.018	0.00822	91	-0.82
Calcium	mg/l	143 ± 1.42	135 ± 5	4.42	94.7	-1.71
Chloride	mg/l	72.1 ± 0.47	72.4 ± 5.2	2.89	100	0.09
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1023 ± 8	13.6	97.5	-1.95
Hydrogen carbonate	mg/l	483 ± 1.82	484 ± 6.7	9.66	100	0.11
Magnesium	mg/l	35.3 ± 0.274	32.6 ± 1	1.41	92.5	-1.88
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.7 ± 1.1	1.19	99.7	-0.07
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.284 ± 0.013	0.0153	98.5	-0.29
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.053 ± 0.06	0.00987	86	-0.88
pH-value	-	7.69 ± 0.0265	8.38 ± 0.2	0.154	109	4.51
Potassium	mg/l	5.32 ± 0.0504	1.94 ± 0.1	0.277	36.4	-12.20
Sodium	mg/l	31.6 ± 0.245	11.6 ± 0.01	1.07	36.7	-18.60
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.7 ± 2	1.78	102	0.47
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.09 ± 0.02	0.0891	91.8	-1.10
Total hardness	mmol/l	5 ± 0.0376	4.72 ± 0.22	0.15	94.3	-1.89
Total nitrogen	mg/l	5.67 ± 0.147	5.43 ± 0.8	0.47	95.9	-0.50

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.45 ± 0.3	0.208	118	1.78

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.6 ± 0.11	0.0704	102	1.17
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.276 ± 0.055	0.0341	97	-0.25
Boron	mg/l	0.0149 ± 0.000559	0.14 ± 0.018	0.00164	940	76.30
Calcium	mg/l	61.3 ± 0.649	58.6 ± 5	1.9	95.6	-1.43

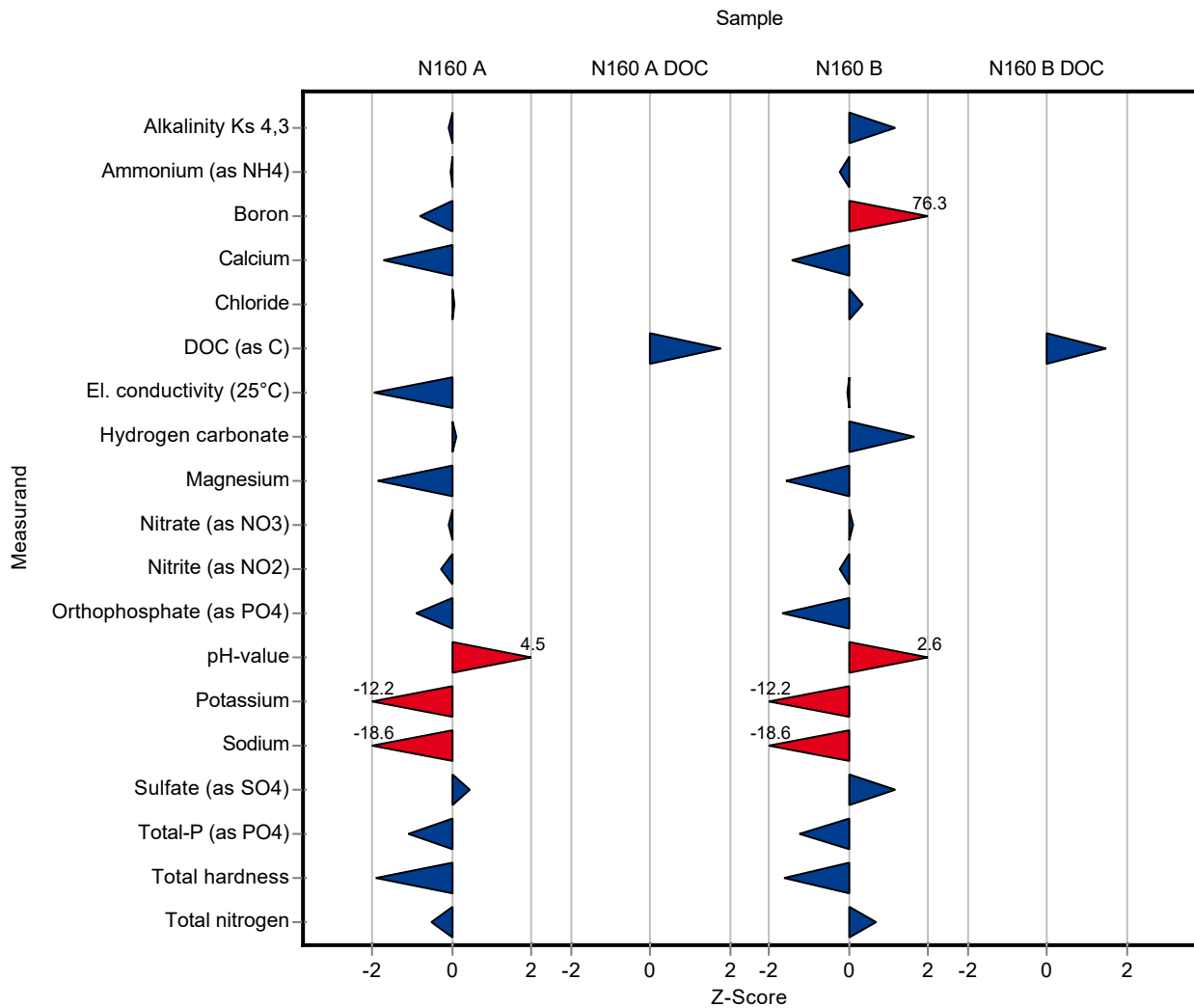
Summary of results Nutrients/Major Ions N160

Labcode: LC0056

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.6 ± 5.2	0.891	101	0.36
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 8	6.16	100	-0.02
Hydrogen carbonate	mg/l	213 ± 1.3	220 ± 6.7	4.26	103	1.64
Magnesium	mg/l	14.9 ± 0.135	14 ± 1	0.598	93.6	-1.59
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.5 ± 1.1	0.672	100	0.09
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.191 ± 0.013	0.0102	98.9	-0.21
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.08 ± 0.06	0.0174	73.4	-1.66
pH-value	-	8.07 ± 0.019	8.49 ± 0.2	0.161	105	2.60
Potassium	mg/l	2.18 ± 0.0235	0.792 ± 0.1	0.113	36.3	-12.20
Sodium	mg/l	14.3 ± 0.118	5.24 ± 0.01	0.485	36.7	-18.60
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.6 ± 2	0.973	104	1.15
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.839 ± 0.02	0.0694	90.7	-1.25
Total hardness	mmol/l	2.14 ± 0.0185	2.04 ± 0.22	0.0643	95.1	-1.63
Total nitrogen	mg/l	3.42 ± 0.0995	3.62 ± 0.8	0.284	106	0.71

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	3.02 ± 0.3	0.263	115	1.50



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.93 ± 0.11	0.159	99.8	-0.07
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.079 ± 0.055	0.00952	99.6	0.00
Boron	mg/l	0.0747 ± 0.00166	0.068 ± 0.018	0.00822	91	-0.19
Calcium	mg/l	143 ± 1.42	135 ± 5	4.42	94.7	-0.75
Chloride	mg/l	72.1 ± 0.47	72.4 ± 5.2	2.89	100	0.02
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1023 ± 8	13.6	97.5	-1.63
Hydrogen carbonate	mg/l	483 ± 1.82	484 ± 6.7	9.66	100	0.08
Magnesium	mg/l	35.3 ± 0.274	32.6 ± 1	1.41	92.5	-1.31
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.7 ± 1.1	1.19	99.7	-0.04
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.284 ± 0.013	0.0153	98.5	-0.17
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.053 ± 0.06	0.00987	86	-0.07
pH-value	-	7.69 ± 0.0265	8.38 ± 0.2	0.154	109	1.73
Potassium	mg/l	5.32 ± 0.0504	1.94 ± 0.1	0.277	36.4	-16.40
Sodium	mg/l	31.6 ± 0.245	11.6 ± 0.01	1.07	36.7	-81.50
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.7 ± 2	1.78	102	0.21
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.09 ± 0.02	0.0891	91.8	-2.22
Total hardness	mmol/l	5 ± 0.0376	4.72 ± 0.22	0.15	94.3	-0.64
Total nitrogen	mg/l	5.67 ± 0.147	5.43 ± 0.8	0.47	95.9	-0.15

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.45 ± 0.3	0.208	118	0.61

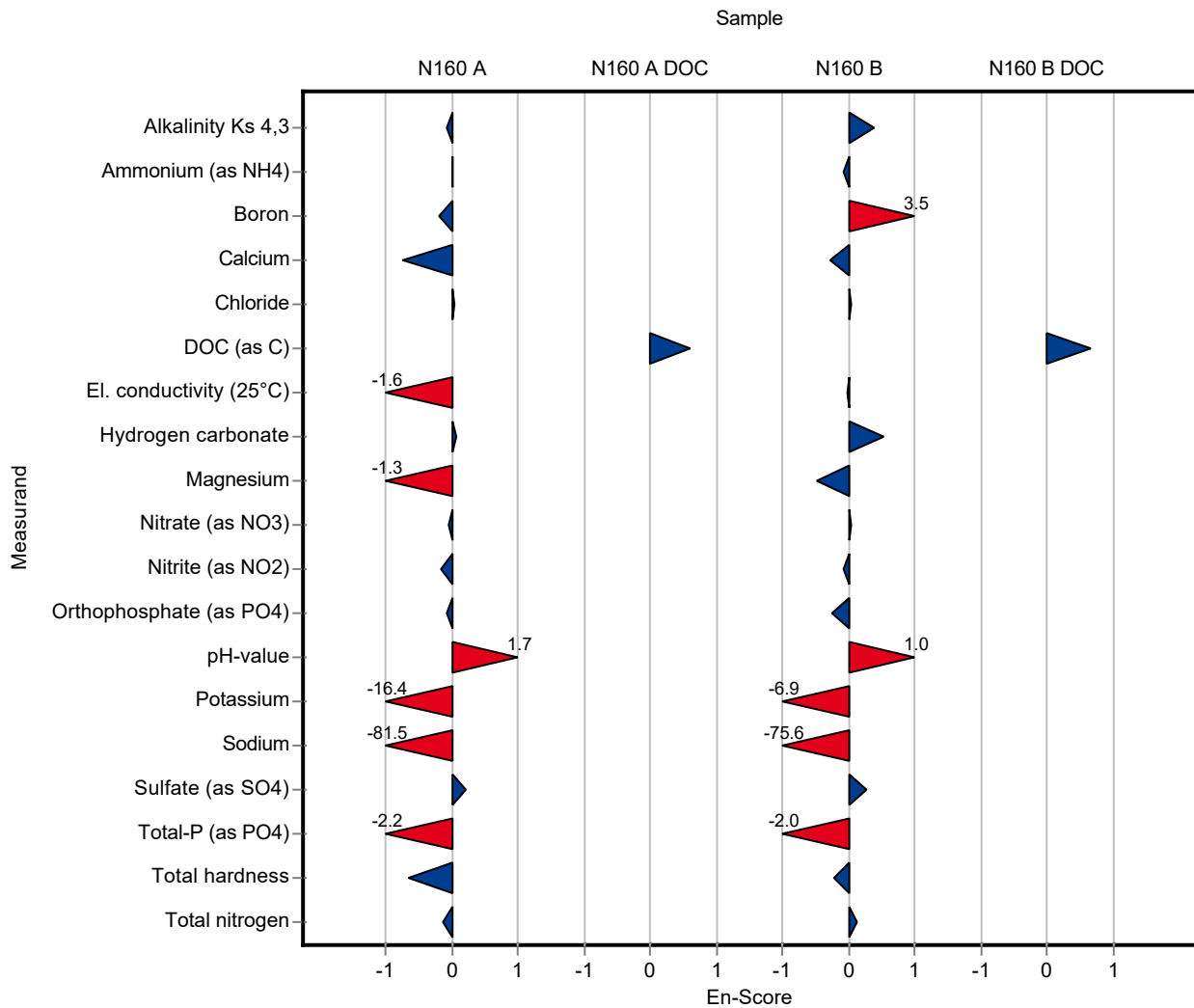
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.6 ± 0.11	0.0704	102	0.37
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.276 ± 0.055	0.0341	97	-0.08
Boron	mg/l	0.0149 ± 0.000559	0.14 ± 0.018	0.00164	940	3.47

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	58.6 ± 5	1.9	95.6	-0.27
Chloride	mg/l	22.3 ± 0.157	22.6 ± 5.2	0.891	101	0.03
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 8	6.16	100	-0.01
Hydrogen carbonate	mg/l	213 ± 1.3	220 ± 6.7	4.26	103	0.52
Magnesium	mg/l	14.9 ± 0.135	14 ± 1	0.598	93.6	-0.47
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.5 ± 1.1	0.672	100	0.03
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.191 ± 0.013	0.0102	98.9	-0.08
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.08 ± 0.06	0.0174	73.4	-0.24
pH-value	-	8.07 ± 0.019	8.49 ± 0.2	0.161	105	1.05
Potassium	mg/l	2.18 ± 0.0235	0.792 ± 0.1	0.113	36.3	-6.89
Sodium	mg/l	14.3 ± 0.118	5.24 ± 0.01	0.485	36.7	-75.60
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.6 ± 2	0.973	104	0.28
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.839 ± 0.02	0.0694	90.7	-2.03
Total hardness	mmol/l	2.14 ± 0.0185	2.04 ± 0.22	0.0643	95.1	-0.24
Total nitrogen	mg/l	3.42 ± 0.0995	3.62 ± 0.8	0.284	106	0.13

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	3.02 ± 0.3	0.263	115	0.65



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	129.04 ± 7	4.42	90.5	-3.06
Chloride	mg/l	72.1 ± 0.47	70 ± 4	2.89	97	-0.74
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.6 ± 1.8	1.41	101	0.24
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.1 ± 1.3	1.19	101	0.27
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	5.2 ± 0.3	0.277	97.7	-0.45
Sodium	mg/l	31.6 ± 0.245	32.4 ± 1.7	1.07	102	0.73
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53 ± 3	1.78	98.4	-0.48
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	4.7 ± 0.2	0.15	93.9	-2.03
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	61 ± 3	1.9	99.5	-0.16

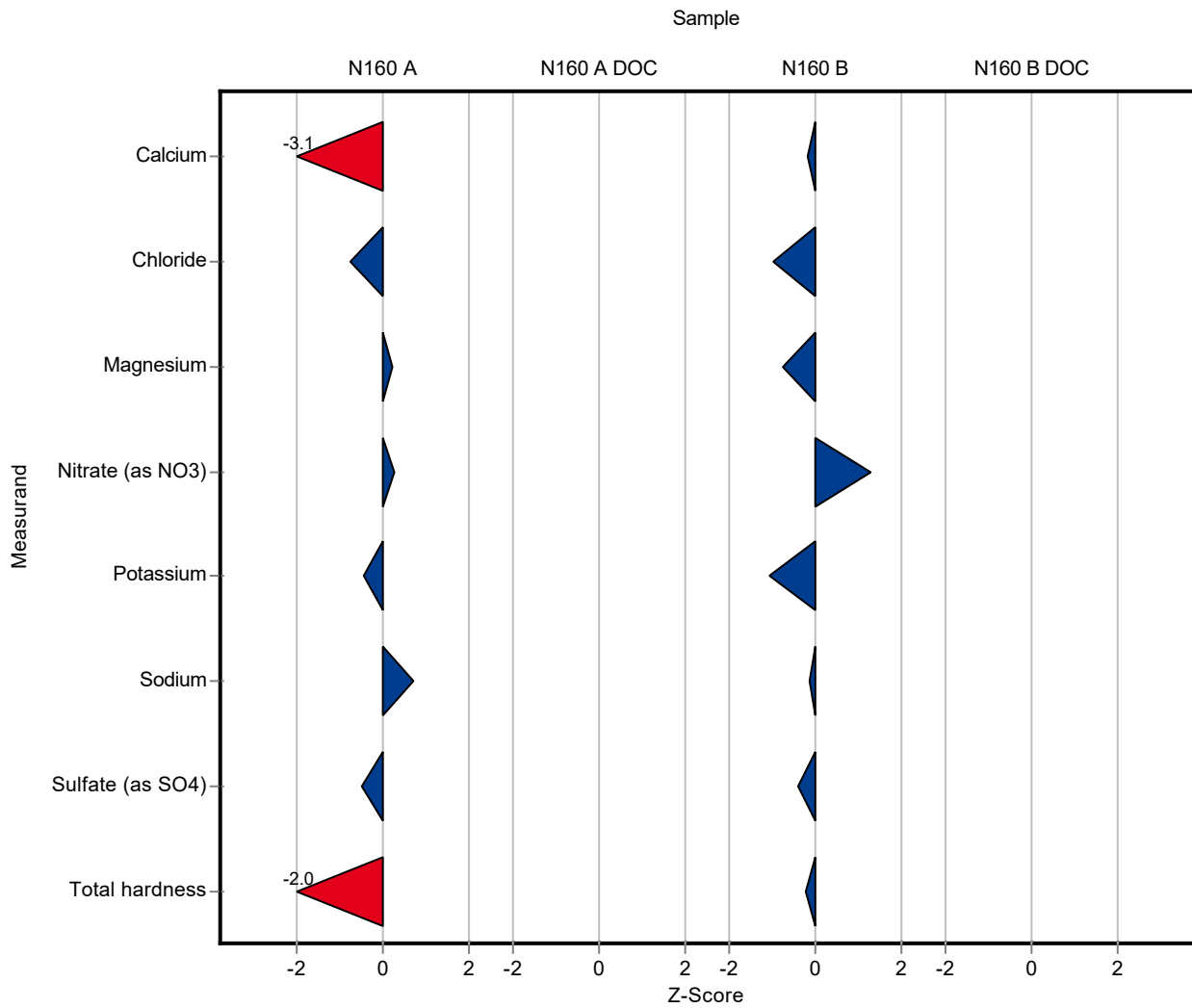
Summary of results Nutrients/Major Ions N160

Labcode: LC0057

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.4 ± 1.1	0.891	96.1	-0.99
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.5 ± 0.8	0.598	97	-0.75
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	14.3 ± 0.8	0.672	106	1.28
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	2.06 ± 0.15	0.113	94.5	-1.06
Sodium	mg/l	14.3 ± 0.118	14.2 ± 0.8	0.485	99.6	-0.13
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.1 ± 1.6	0.973	98.7	-0.40
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.13 ± 0.11	0.0643	99.3	-0.23
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	129.04 ± 7	4.42	90.5	-0.96
Chloride	mg/l	72.1 ± 0.47	70 ± 4	2.89	97	-0.27
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.6 ± 1.8	1.41	101	0.10
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.1 ± 1.3	1.19	101	0.12
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	5.2 ± 0.3	0.277	97.7	-0.21
Sodium	mg/l	31.6 ± 0.245	32.4 ± 1.7	1.07	102	0.23
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53 ± 3	1.78	98.4	-0.14
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	4.7 ± 0.2	0.15	93.9	-0.76
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

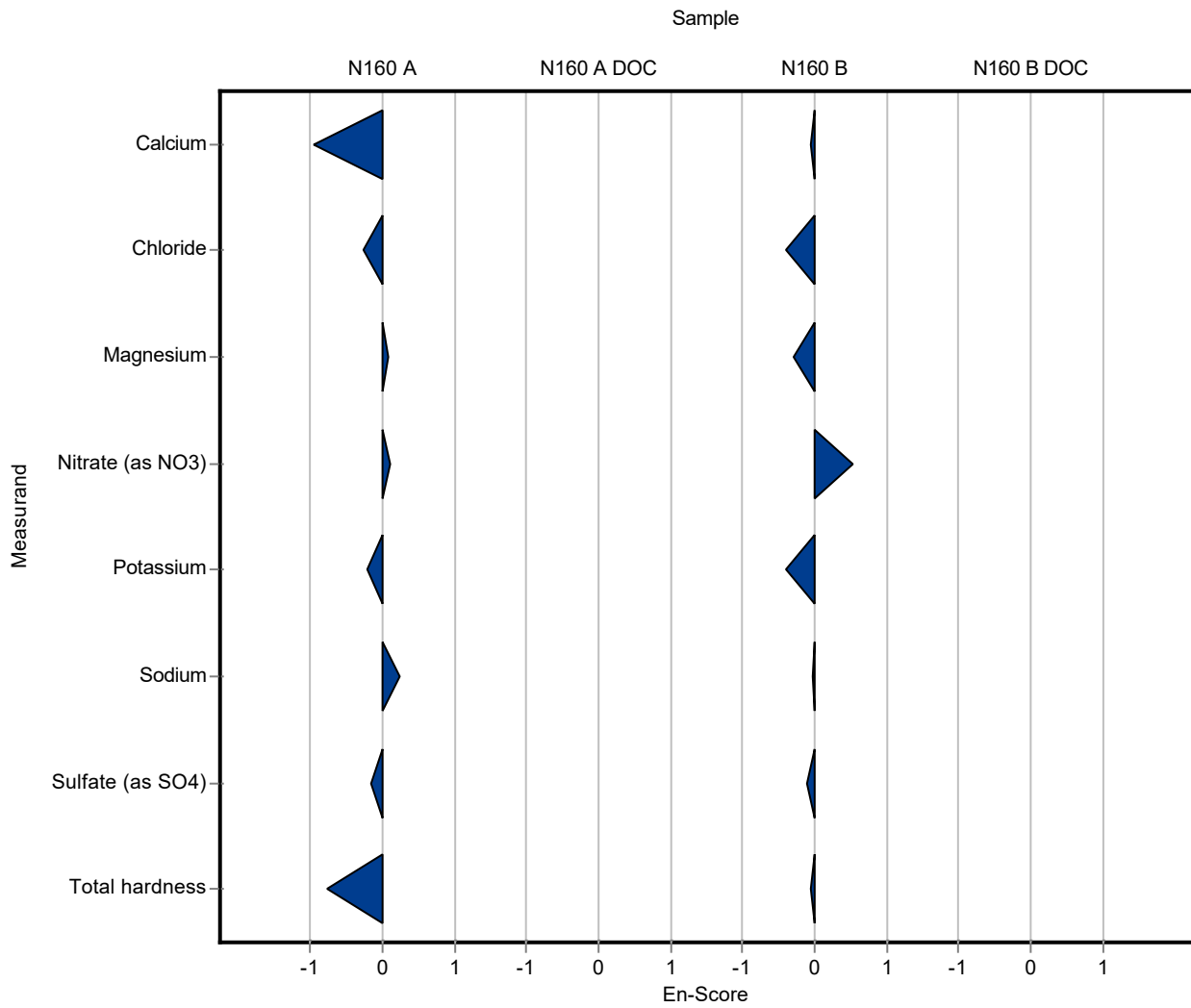
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0057

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61 ± 3	1.9	99.5	-0.05
Chloride	mg/l	22.3 ± 0.157	21.4 ± 1.1	0.891	96.1	-0.40
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.5 ± 0.8	0.598	97	-0.28
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	14.3 ± 0.8	0.672	106	0.54
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	2.06 ± 0.15	0.113	94.5	-0.40
Sodium	mg/l	14.3 ± 0.118	14.2 ± 0.8	0.485	99.6	-0.04
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.1 ± 1.6	0.973	98.7	-0.12
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.13 ± 0.11	0.0643	99.3	-0.07
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.017 ± 0.817	0.159	101	0.45
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.08 ± 0.02	0.00952	101	0.07
Boron	mg/l	0.0747 ± 0.00166	0.019 ± 0.002	0.00822	25.4	-6.78
Calcium	mg/l	143 ± 1.42	148.3 ± 19.8	4.42	104	1.30
Chloride	mg/l	72.1 ± 0.47	70.4 ± 5.87	2.89	97.6	-0.61
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1072 ± 60.7	13.6	102	1.64
Hydrogen carbonate	mg/l	483 ± 1.82	486.1 ± 48.6	9.66	101	0.33
Magnesium	mg/l	35.3 ± 0.274	35 ± 4.63	1.41	99.3	-0.18
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.5 ± 2.07	1.19	103	0.60
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.3 ± 0.032	0.0153	104	0.76
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.067 ± 0.018	0.00987	109	0.54
pH-value	-	7.69 ± 0.0265	7.7 ± 0.1	0.154	100	0.09
Potassium	mg/l	5.32 ± 0.0504	5.2 ± 0.86	0.277	97.7	-0.45
Sodium	mg/l	31.6 ± 0.245	31.8 ± 5.63	1.07	101	0.17
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	50.8 ± 3.28	1.78	94.3	-1.72
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.19574 ± 0.19	0.0891	101	0.09
Total hardness	mmol/l	5 ± 0.0376	5.136 ± 0.683	0.15	103	0.88
Total nitrogen	mg/l	5.67 ± 0.147	5.1 ± 0.51	0.47	90	-1.20

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.9 ± 0.36	0.208	91.4	-0.86

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.553 ± 0.3553	0.0704	101	0.50
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.33 ± 0.33	0.0341	116	1.33
Boron	mg/l	0.0149 ± 0.000559	<0.017 (LOQ) ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	62.4 ± 8.32	1.9	102	0.57

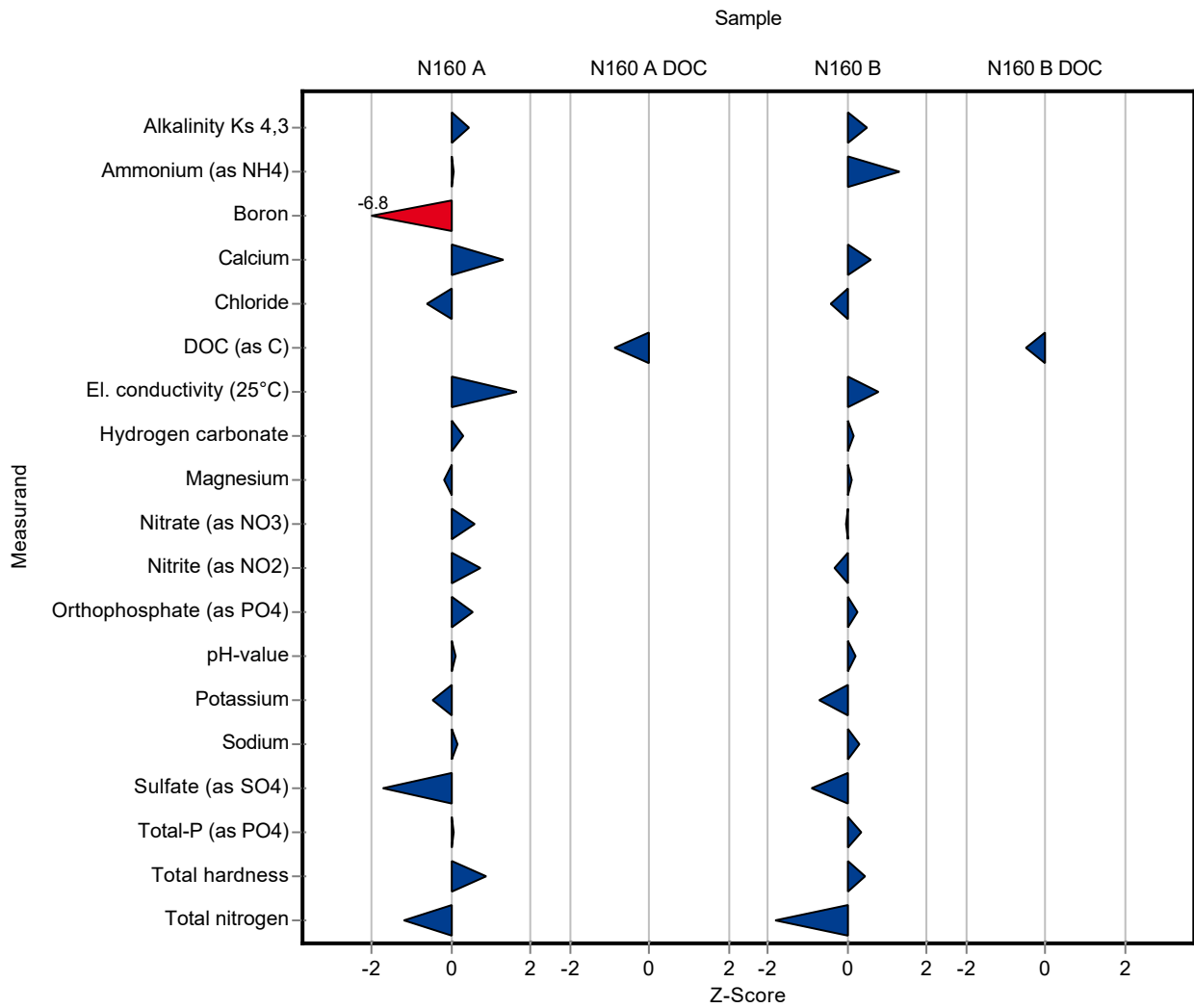
Summary of results Nutrients/Major Ions N160

Labcode: LC0058

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.9 ± 1.83	0.891	98.3	-0.43
El. conductivity (25°C)	µS/cm	474 ± 1.13	479 ± 27.1	6.16	101	0.79
Hydrogen carbonate	mg/l	213 ± 1.3	213.7 ± 21.4	4.26	100	0.16
Magnesium	mg/l	14.9 ± 0.135	15 ± 1.98	0.598	100	0.08
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.4 ± 1.13	0.672	99.7	-0.06
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.19 ± 0.02	0.0102	98.4	-0.31
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.113 ± 0.031	0.0174	104	0.23
pH-value	-	8.07 ± 0.019	8.1 ± 0.1	0.161	100	0.19
Potassium	mg/l	2.18 ± 0.0235	2.1 ± 0.35	0.113	96.3	-0.71
Sodium	mg/l	14.3 ± 0.118	14.4 ± 2.55	0.485	101	0.28
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.6 ± 1.84	0.973	97	-0.91
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.95 ± 0.15	0.0694	103	0.35
Total hardness	mmol/l	2.14 ± 0.0185	2.172 ± 0.289	0.0643	101	0.42
Total nitrogen	mg/l	3.42 ± 0.0995	2.9 ± 0.29	0.284	84.8	-1.83

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.5 ± 0.47	0.263	95.2	-0.48



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.017 ± 0.817	0.159	101	0.04
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.08 ± 0.02	0.00952	101	0.02
Boron	mg/l	0.0747 ± 0.00166	0.019 ± 0.002	0.00822	25.4	-12.90
Calcium	mg/l	143 ± 1.42	148.3 ± 19.8	4.42	104	0.14
Chloride	mg/l	72.1 ± 0.47	70.4 ± 5.87	2.89	97.6	-0.15
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1072 ± 60.7	13.6	102	0.18
Hydrogen carbonate	mg/l	483 ± 1.82	486.1 ± 48.6	9.66	101	0.03
Magnesium	mg/l	35.3 ± 0.274	35 ± 4.63	1.41	99.3	-0.03
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.5 ± 2.07	1.19	103	0.17
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.3 ± 0.032	0.0153	104	0.18
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.067 ± 0.018	0.00987	109	0.15
pH-value	-	7.69 ± 0.0265	7.7 ± 0.1	0.154	100	0.07
Potassium	mg/l	5.32 ± 0.0504	5.2 ± 0.86	0.277	97.7	-0.07
Sodium	mg/l	31.6 ± 0.245	31.8 ± 5.63	1.07	101	0.02
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	50.8 ± 3.28	1.78	94.3	-0.47
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.19574 ± 0.19	0.0891	101	0.02
Total hardness	mmol/l	5 ± 0.0376	5.136 ± 0.683	0.15	103	0.10
Total nitrogen	mg/l	5.67 ± 0.147	5.1 ± 0.51	0.47	90	-0.55

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.9 ± 0.36	0.208	91.4	-0.25

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.553 ± 0.3553	0.0704	101	0.05
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.33 ± 0.33	0.0341	116	0.07
Boron	mg/l	0.0149 ± 0.000559	<0.017 (LOQ) ± -	0.00164	-	-

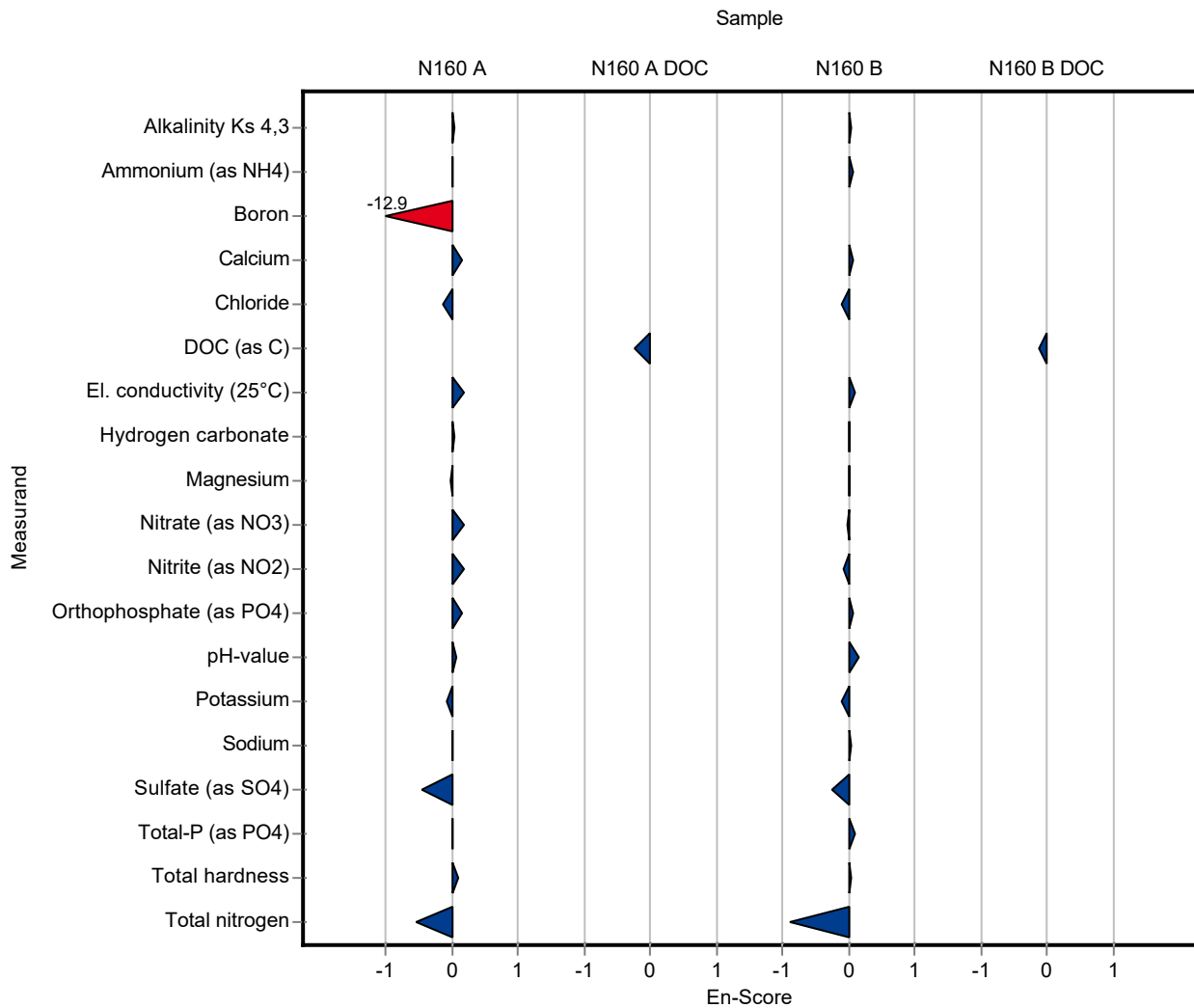
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0058

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	62.4 ± 8.32	1.9	102	0.07
Chloride	mg/l	22.3 ± 0.157	21.9 ± 1.83	0.891	98.3	-0.10
El. conductivity (25°C)	µS/cm	474 ± 1.13	479 ± 27.1	6.16	101	0.09
Hydrogen carbonate	mg/l	213 ± 1.3	213.7 ± 21.4	4.26	100	0.02
Magnesium	mg/l	14.9 ± 0.135	15 ± 1.98	0.598	100	0.01
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.4 ± 1.13	0.672	99.7	-0.02
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.19 ± 0.02	0.0102	98.4	-0.08
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.113 ± 0.031	0.0174	104	0.07
pH-value	-	8.07 ± 0.019	8.1 ± 0.1	0.161	100	0.15
Potassium	mg/l	2.18 ± 0.0235	2.1 ± 0.35	0.113	96.3	-0.12
Sodium	mg/l	14.3 ± 0.118	14.4 ± 2.55	0.485	101	0.03
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.6 ± 1.84	0.973	97	-0.24
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.95 ± 0.15	0.0694	103	0.08
Total hardness	mmol/l	2.14 ± 0.0185	2.172 ± 0.289	0.0643	101	0.05
Total nitrogen	mg/l	3.42 ± 0.0995	2.9 ± 0.29	0.284	84.8	-0.88

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.5 ± 0.47	0.263	95.2	-0.13



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.98 ± 0.41	0.159	100	0.22
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.087 ± 0.023	0.00952	110	0.80
Boron	mg/l	0.0747 ± 0.00166	0.074 ± 0.013	0.00822	99	-0.09
Calcium	mg/l	143 ± 1.42	150 ± 6	4.42	105	1.68
Chloride	mg/l	72.1 ± 0.47	71.4 ± 5.7	2.89	99	-0.26
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1030 ± 21	13.6	98.1	-1.44
Hydrogen carbonate	mg/l	483 ± 1.82	487 ± 39	9.66	101	0.42
Magnesium	mg/l	35.3 ± 0.274	36.3 ± 1.5	1.41	103	0.74
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.2 ± 1.9	1.19	102	0.35
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.294 ± 0.035	0.0153	102	0.37
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.06 ± 0.005	0.00987	97.3	-0.17
pH-value	-	7.69 ± 0.0265	7.7 ± 0.3	0.154	100	0.09
Potassium	mg/l	5.32 ± 0.0504	5.3 ± 0.6	0.277	99.6	-0.09
Sodium	mg/l	31.6 ± 0.245	31.4 ± 1.9	1.07	99.3	-0.20
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.1 ± 3.3	1.78	102	0.70
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.17 ± 0.11	0.0891	98.5	-0.20
Total hardness	mmol/l	5 ± 0.0376	5.1 ± 0.3	0.15	102	0.64
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2 ± 0.66	0.208	96.2	-0.38

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.52 ± 0.18	0.0704	100	0.03
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.314 ± 0.072	0.0341	110	0.86
Boron	mg/l	0.0149 ± 0.000559	0.0144 ± 0.002	0.00164	96.6	-0.30
Calcium	mg/l	61.3 ± 0.649	63 ± 5	1.9	103	0.89

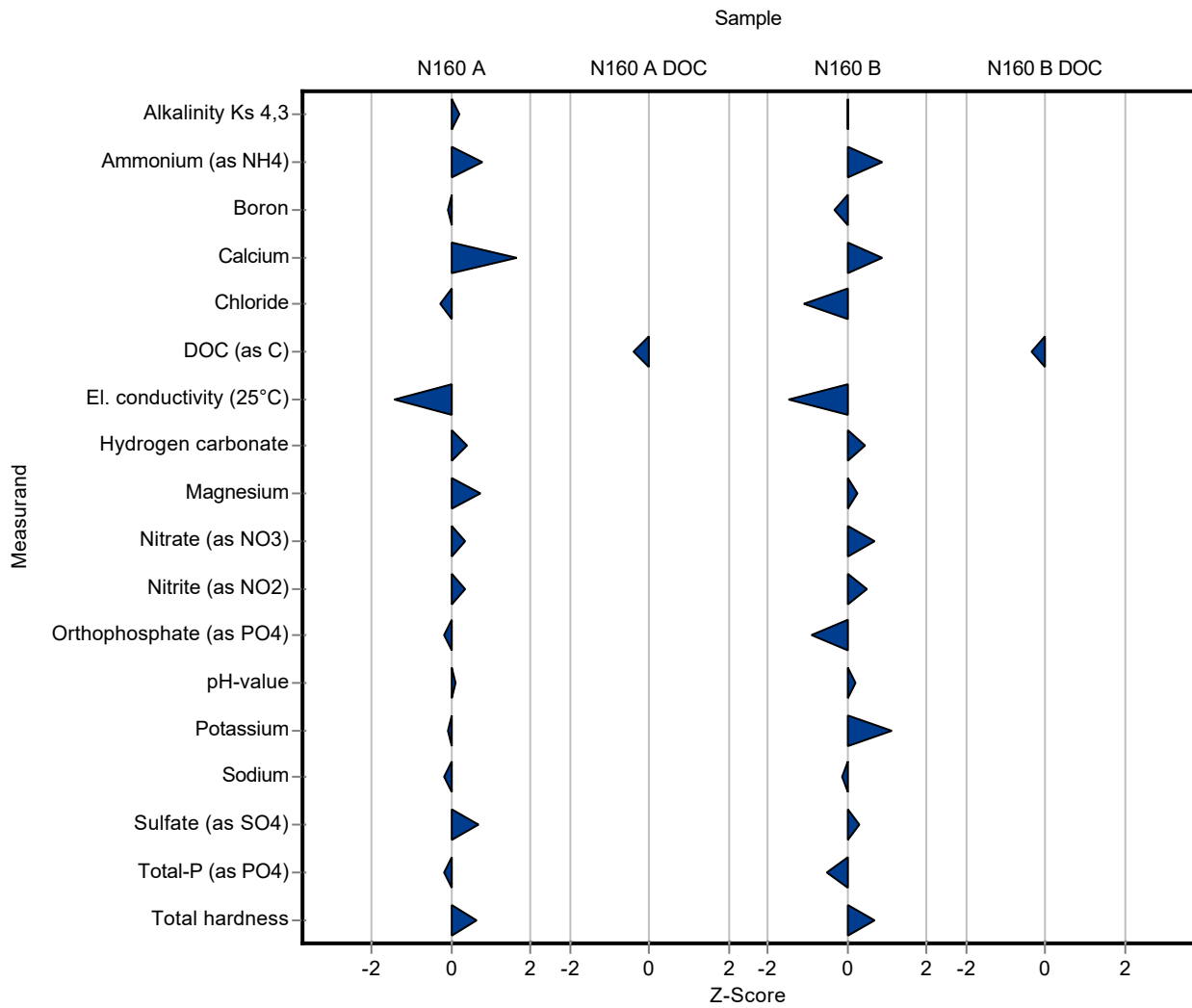
Summary of results Nutrients/Major Ions N160

Labcode: LC0059

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.3 ± 1.7	0.891	95.6	-1.10
El. conductivity (25°C)	µS/cm	474 ± 1.13	465 ± 9	6.16	98.1	-1.48
Hydrogen carbonate	mg/l	213 ± 1.3	215 ± 17	4.26	101	0.46
Magnesium	mg/l	14.9 ± 0.135	15.1 ± 1.2	0.598	101	0.25
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.9 ± 1.1	0.672	103	0.69
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.198 ± 0.024	0.0102	103	0.47
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.093 ± 0.008	0.0174	85.4	-0.92
pH-value	-	8.07 ± 0.019	8.1 ± 0.3	0.161	100	0.19
Potassium	mg/l	2.18 ± 0.0235	2.31 ± 0.25	0.113	106	1.14
Sodium	mg/l	14.3 ± 0.118	14.2 ± 1.7	0.485	99.6	-0.13
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.8 ± 1.8	0.973	101	0.32
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.89 ± 0.08	0.0694	96.2	-0.51
Total hardness	mmol/l	2.14 ± 0.0185	2.19 ± 0.1	0.0643	102	0.70
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.53 ± 0.3	0.263	96.3	-0.37



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.98 ± 0.41	0.159	100	0.04
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.087 ± 0.023	0.00952	110	0.17
Boron	mg/l	0.0747 ± 0.00166	0.074 ± 0.013	0.00822	99	-0.03
Calcium	mg/l	143 ± 1.42	150 ± 6	4.42	105	0.61
Chloride	mg/l	72.1 ± 0.47	71.4 ± 5.7	2.89	99	-0.07
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1030 ± 21	13.6	98.1	-0.47
Hydrogen carbonate	mg/l	483 ± 1.82	487 ± 39	9.66	101	0.05
Magnesium	mg/l	35.3 ± 0.274	36.3 ± 1.5	1.41	103	0.35
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.2 ± 1.9	1.19	102	0.11
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.294 ± 0.035	0.0153	102	0.08
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.06 ± 0.005	0.00987	97.3	-0.16
pH-value	-	7.69 ± 0.0265	7.7 ± 0.3	0.154	100	0.02
Potassium	mg/l	5.32 ± 0.0504	5.3 ± 0.6	0.277	99.6	-0.02
Sodium	mg/l	31.6 ± 0.245	31.4 ± 1.9	1.07	99.3	-0.06
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.1 ± 3.3	1.78	102	0.19
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.17 ± 0.11	0.0891	98.5	-0.08
Total hardness	mmol/l	5 ± 0.0376	5.1 ± 0.3	0.15	102	0.16
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2 ± 0.66	0.208	96.2	-0.06

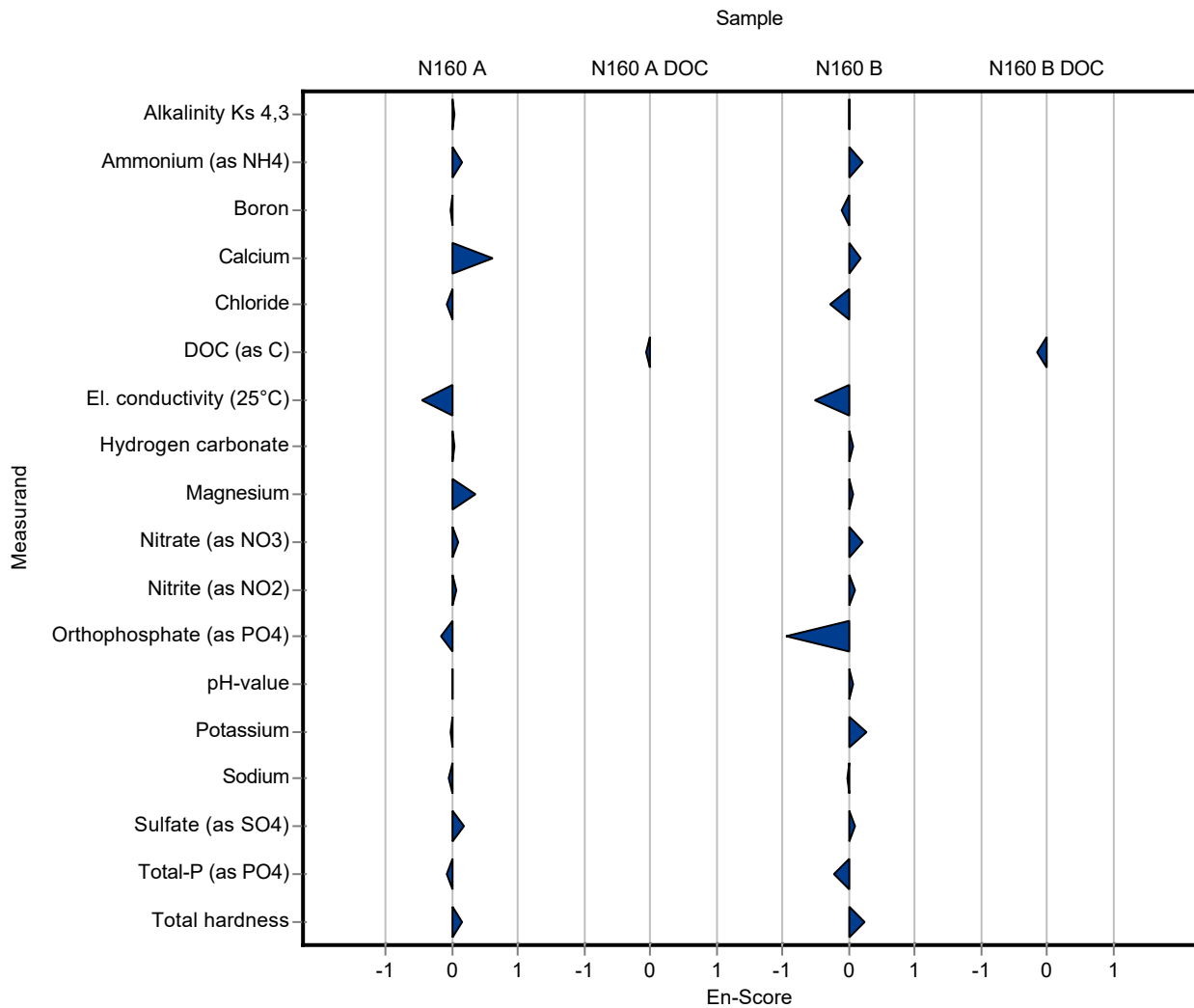
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.52 ± 0.18	0.0704	100	0.01
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.314 ± 0.072	0.0341	110	0.20
Boron	mg/l	0.0149 ± 0.000559	0.0144 ± 0.002	0.00164	96.6	-0.12

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	63 ± 5	1.9	103	0.17
Chloride	mg/l	22.3 ± 0.157	21.3 ± 1.7	0.891	95.6	-0.29
El. conductivity (25°C)	µS/cm	474 ± 1.13	465 ± 9	6.16	98.1	-0.51
Hydrogen carbonate	mg/l	213 ± 1.3	215 ± 17	4.26	101	0.06
Magnesium	mg/l	14.9 ± 0.135	15.1 ± 1.2	0.598	101	0.06
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.9 ± 1.1	0.672	103	0.21
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.198 ± 0.024	0.0102	103	0.10
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.093 ± 0.008	0.0174	85.4	-0.94
pH-value	-	8.07 ± 0.019	8.1 ± 0.3	0.161	100	0.05
Potassium	mg/l	2.18 ± 0.0235	2.31 ± 0.25	0.113	106	0.26
Sodium	mg/l	14.3 ± 0.118	14.2 ± 1.7	0.485	99.6	-0.02
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.8 ± 1.8	0.973	101	0.09
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.89 ± 0.08	0.0694	96.2	-0.22
Total hardness	mmol/l	2.14 ± 0.0185	2.19 ± 0.1	0.0643	102	0.23
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.53 ± 0.3	0.263	96.3	-0.16



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.99 ± 0.2	0.159	101	0.28
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.079 ± 0.002	0.00952	99.6	-0.04
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	144 ± 3	4.42	101	0.32
Chloride	mg/l	72.1 ± 0.47	73.1 ± 1.5	2.89	101	0.33
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1055 ± 22	13.6	101	0.39
Hydrogen carbonate	mg/l	483 ± 1.82	484 ± 10	9.66	100	0.11
Magnesium	mg/l	35.3 ± 0.274	34.9 ± 1	1.41	99	-0.25
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.7 ± 0.5	1.19	99.7	-0.07
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.292 ± 0.01	0.0153	101	0.23
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.066 ± 0.0015	0.00987	107	0.44
pH-value	-	7.69 ± 0.0265	7.65 ± 0.2	0.154	99.5	-0.23
Potassium	mg/l	5.32 ± 0.0504	5.15 ± 0.15	0.277	96.7	-0.63
Sodium	mg/l	31.6 ± 0.245	31.2 ± 1	1.07	98.7	-0.39
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.4 ± 1.5	1.78	101	0.30
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.2 ± 0.05	0.0891	101	0.14
Total hardness	mmol/l	5 ± 0.0376	5.04 ± 0.15	0.15	101	0.24
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.22 ± 0.05	0.208	107	0.67

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.51 ± 0.1	0.0704	99.8	-0.11
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.276 ± 0.01	0.0341	97	-0.25
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	61 ± 2	1.9	99.5	-0.16

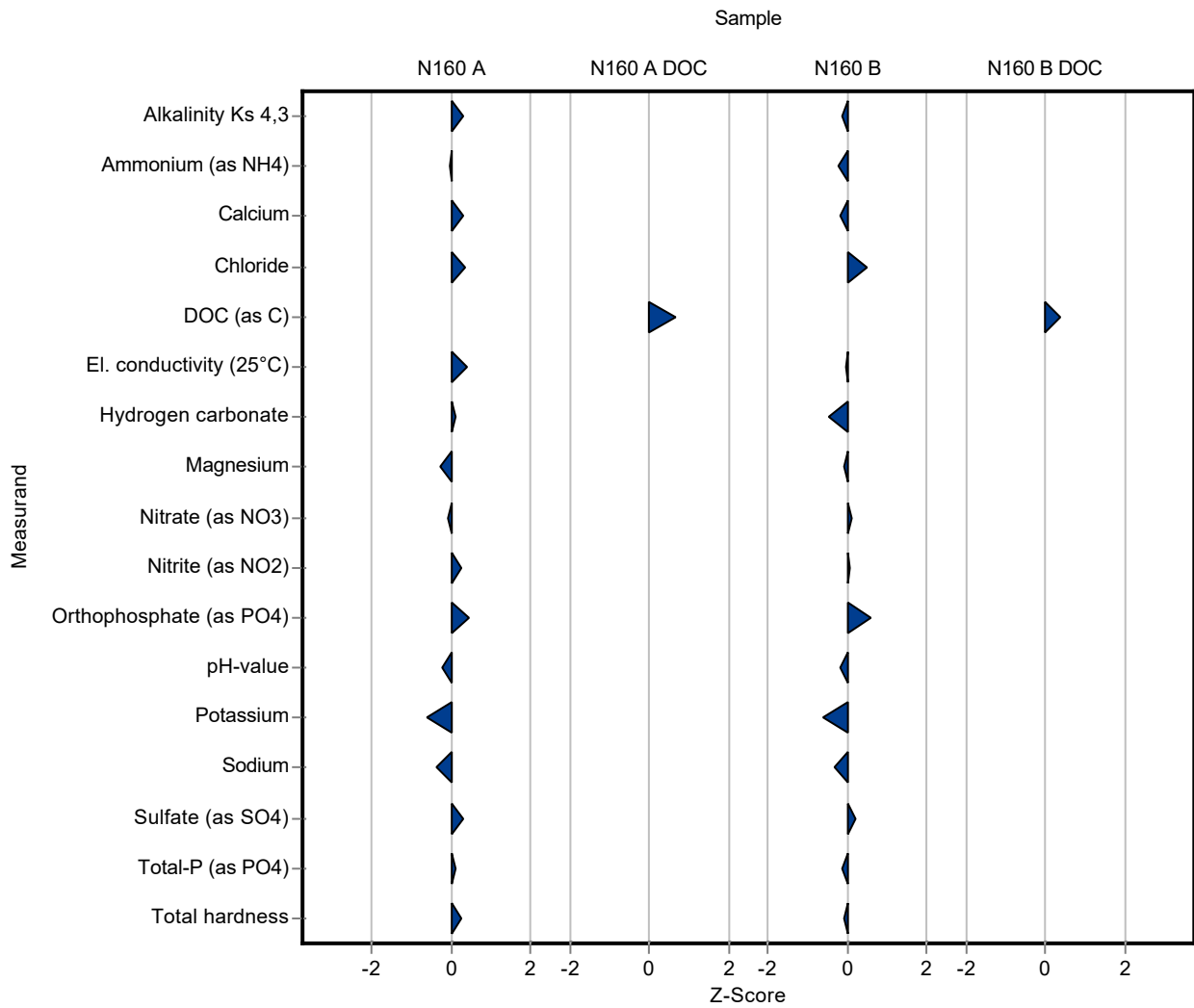
Summary of results Nutrients/Major Ions N160

Labcode: LC0060

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.7 ± 1	0.891	102	0.47
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 10	6.16	100	-0.02
Hydrogen carbonate	mg/l	213 ± 1.3	211 ± 5	4.26	99	-0.48
Magnesium	mg/l	14.9 ± 0.135	14.9 ± 0.3	0.598	99.7	-0.08
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.5 ± 0.3	0.672	100	0.09
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.194 ± 0.005	0.0102	100	0.08
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.119 ± 0.005	0.0174	109	0.58
pH-value	-	8.07 ± 0.019	8.04 ± 0.2	0.161	99.6	-0.18
Potassium	mg/l	2.18 ± 0.0235	2.11 ± 0.05	0.113	96.8	-0.62
Sodium	mg/l	14.3 ± 0.118	14.1 ± 0.3	0.485	98.9	-0.33
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.7 ± 1	0.973	101	0.22
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.916 ± 0.02	0.0694	99	-0.14
Total hardness	mmol/l	2.14 ± 0.0185	2.14 ± 0.05	0.0643	99.8	-0.07
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.73 ± 0.1	0.263	104	0.39



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.99 ± 0.2	0.159	101	0.11
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.079 ± 0.002	0.00952	99.6	-0.07
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	144 ± 3	4.42	101	0.23
Chloride	mg/l	72.1 ± 0.47	73.1 ± 1.5	2.89	101	0.31
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1055 ± 22	13.6	101	0.12
Hydrogen carbonate	mg/l	483 ± 1.82	484 ± 10	9.66	100	0.05
Magnesium	mg/l	35.3 ± 0.274	34.9 ± 1	1.41	99	-0.17
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.7 ± 0.5	1.19	99.7	-0.08
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.292 ± 0.01	0.0153	101	0.18
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.066 ± 0.0015	0.00987	107	0.98
pH-value	-	7.69 ± 0.0265	7.65 ± 0.2	0.154	99.5	-0.09
Potassium	mg/l	5.32 ± 0.0504	5.15 ± 0.15	0.277	96.7	-0.57
Sodium	mg/l	31.6 ± 0.245	31.2 ± 1	1.07	98.7	-0.21
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.4 ± 1.5	1.78	101	0.18
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.2 ± 0.05	0.0891	101	0.12
Total hardness	mmol/l	5 ± 0.0376	5.04 ± 0.15	0.15	101	0.12
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.22 ± 0.05	0.208	107	1.21

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.51 ± 0.1	0.0704	99.8	-0.04
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.276 ± 0.01	0.0341	97	-0.41
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

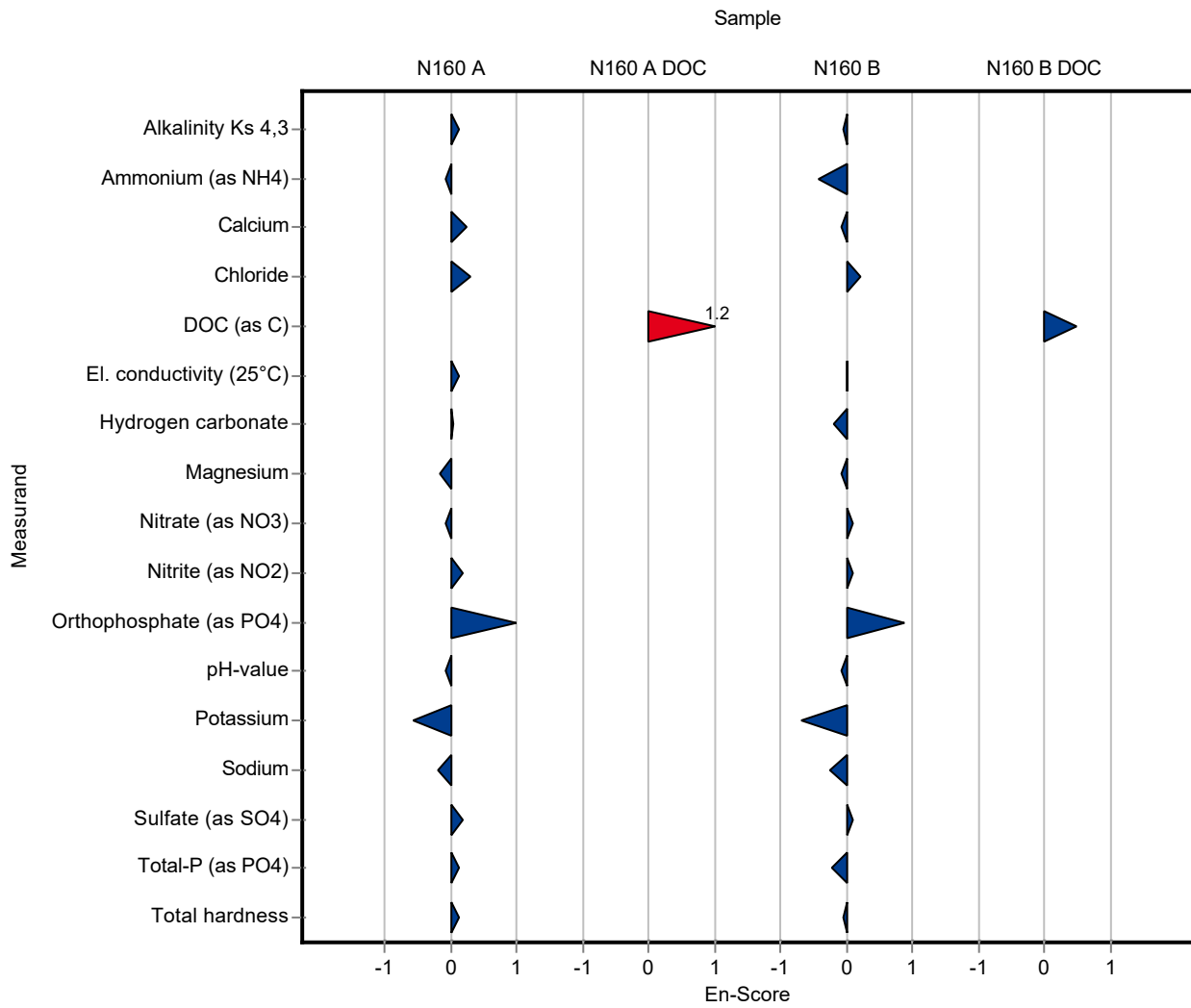
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0060

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61 ± 2	1.9	99.5	-0.08
Chloride	mg/l	22.3 ± 0.157	22.7 ± 1	0.891	102	0.21
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 10	6.16	100	-0.01
Hydrogen carbonate	mg/l	213 ± 1.3	211 ± 5	4.26	99	-0.20
Magnesium	mg/l	14.9 ± 0.135	14.9 ± 0.3	0.598	99.7	-0.08
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.5 ± 0.3	0.672	100	0.10
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.194 ± 0.005	0.0102	100	0.08
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.119 ± 0.005	0.0174	109	0.88
pH-value	-	8.07 ± 0.019	8.04 ± 0.2	0.161	99.6	-0.07
Potassium	mg/l	2.18 ± 0.0235	2.11 ± 0.05	0.113	96.8	-0.69
Sodium	mg/l	14.3 ± 0.118	14.1 ± 0.3	0.485	98.9	-0.26
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.7 ± 1	0.973	101	0.11
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.916 ± 0.02	0.0694	99	-0.22
Total hardness	mmol/l	2.14 ± 0.0185	2.14 ± 0.05	0.0643	99.8	-0.05
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.73 ± 0.1	0.263	104	0.49



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.89 ± 1.184	0.159	99.3	-0.35
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.072 ± 0.0072	0.00952	90.7	-0.77
Boron	mg/l	0.0747 ± 0.00166	0.088 ± 0.0106	0.00822	118	1.62
Calcium	mg/l	143 ± 1.42	141.35 ± 14.135	4.42	99.1	-0.28
Chloride	mg/l	72.1 ± 0.47	73.24 ± 3.662	2.89	102	0.38
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1052 ± 42.1	13.6	100	0.17
Hydrogen carbonate	mg/l	483 ± 1.82	481.4 ± 72.21	9.66	99.7	-0.16
Magnesium	mg/l	35.3 ± 0.274	34.59 ± 3.459	1.41	98.1	-0.47
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.887 ± 0.9555	1.19	100	0.09
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.292 ± 0.0234	0.0153	101	0.23
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.064 ± 0.0077	0.00987	104	0.24
pH-value	-	7.69 ± 0.0265	7.6 ± 0.46	0.154	98.9	-0.56
Potassium	mg/l	5.32 ± 0.0504	5.23 ± 0.523	0.277	98.2	-0.34
Sodium	mg/l	31.6 ± 0.245	31 ± 3.1	1.07	98.1	-0.57
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	56.92 ± 2.846	1.78	106	1.72
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.205 ± 0.1809	0.0891	101	0.19
Total hardness	mmol/l	5 ± 0.0376	4.95 ± 0.495	0.15	98.9	-0.36
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2 ± 0.16	0.208	96.2	-0.38

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.55 ± 0.533	0.0704	101	0.46
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.286 ± 0.0286	0.0341	101	0.04
Boron	mg/l	0.0149 ± 0.000559	0.016 ± 0.0019	0.00164	107	0.67
Calcium	mg/l	61.3 ± 0.649	60.26 ± 6.026	1.9	98.3	-0.55

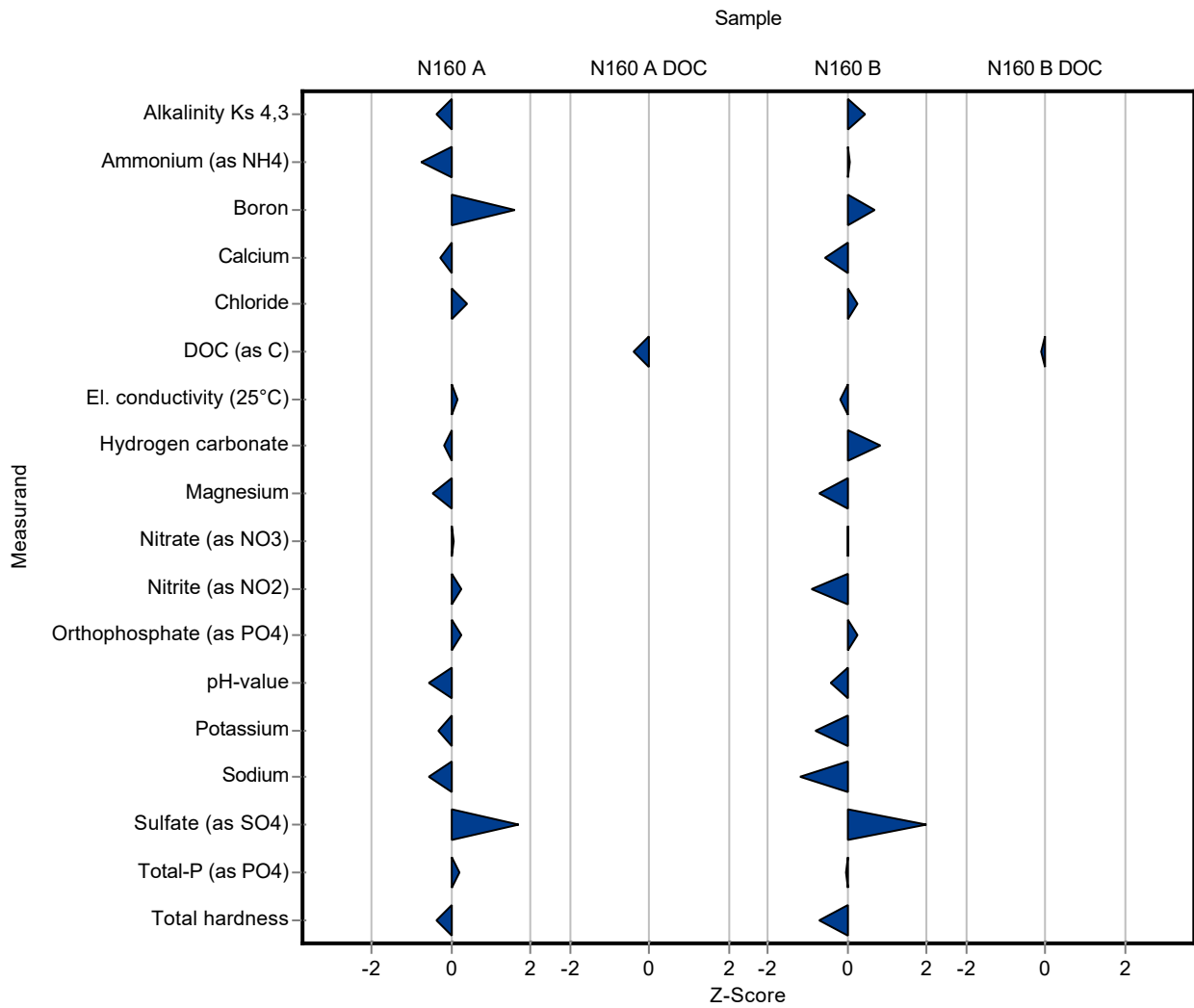
Summary of results Nutrients/Major Ions N160

Labcode: LC0061

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.51 ± 1.126	0.891	101	0.26
El. conductivity (25°C)	µS/cm	474 ± 1.13	473 ± 18.9	6.16	99.8	-0.18
Hydrogen carbonate	mg/l	213 ± 1.3	216.6 ± 32.49	4.26	102	0.84
Magnesium	mg/l	14.9 ± 0.135	14.53 ± 1.453	0.598	97.2	-0.70
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.457 ± 0.5383	0.672	100	0.03
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.184 ± 0.0147	0.0102	95.3	-0.90
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.113 ± 0.0136	0.0174	104	0.23
pH-value	-	8.07 ± 0.019	8 ± 0.48	0.161	99.1	-0.43
Potassium	mg/l	2.18 ± 0.0235	2.09 ± 0.209	0.113	95.9	-0.80
Sodium	mg/l	14.3 ± 0.118	13.67 ± 1.367	0.485	95.9	-1.22
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	31.4 ± 1.57	0.973	106	1.97
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.923 ± 0.1386	0.0694	99.7	-0.04
Total hardness	mmol/l	2.14 ± 0.0185	2.1 ± 0.21	0.0643	97.9	-0.69
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.6 ± 0.21	0.263	99	-0.10



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.89 ± 1.184	0.159	99.3	-0.02
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.072 ± 0.0072	0.00952	90.7	-0.50
Boron	mg/l	0.0747 ± 0.00166	0.088 ± 0.0106	0.00822	118	0.62
Calcium	mg/l	143 ± 1.42	141.35 ± 14.135	4.42	99.1	-0.04
Chloride	mg/l	72.1 ± 0.47	73.24 ± 3.662	2.89	102	0.15
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1052 ± 42.1	13.6	100	0.03
Hydrogen carbonate	mg/l	483 ± 1.82	481.4 ± 72.21	9.66	99.7	-0.01
Magnesium	mg/l	35.3 ± 0.274	34.59 ± 3.459	1.41	98.1	-0.10
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.887 ± 0.9555	1.19	100	0.05
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.292 ± 0.0234	0.0153	101	0.08
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.064 ± 0.0077	0.00987	104	0.15
pH-value	-	7.69 ± 0.0265	7.6 ± 0.46	0.154	98.9	-0.09
Potassium	mg/l	5.32 ± 0.0504	5.23 ± 0.523	0.277	98.2	-0.09
Sodium	mg/l	31.6 ± 0.245	31 ± 3.1	1.07	98.1	-0.10
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	56.92 ± 2.846	1.78	106	0.54
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.205 ± 0.1809	0.0891	101	0.05
Total hardness	mmol/l	5 ± 0.0376	4.95 ± 0.495	0.15	98.9	-0.06
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2 ± 0.16	0.208	96.2	-0.25

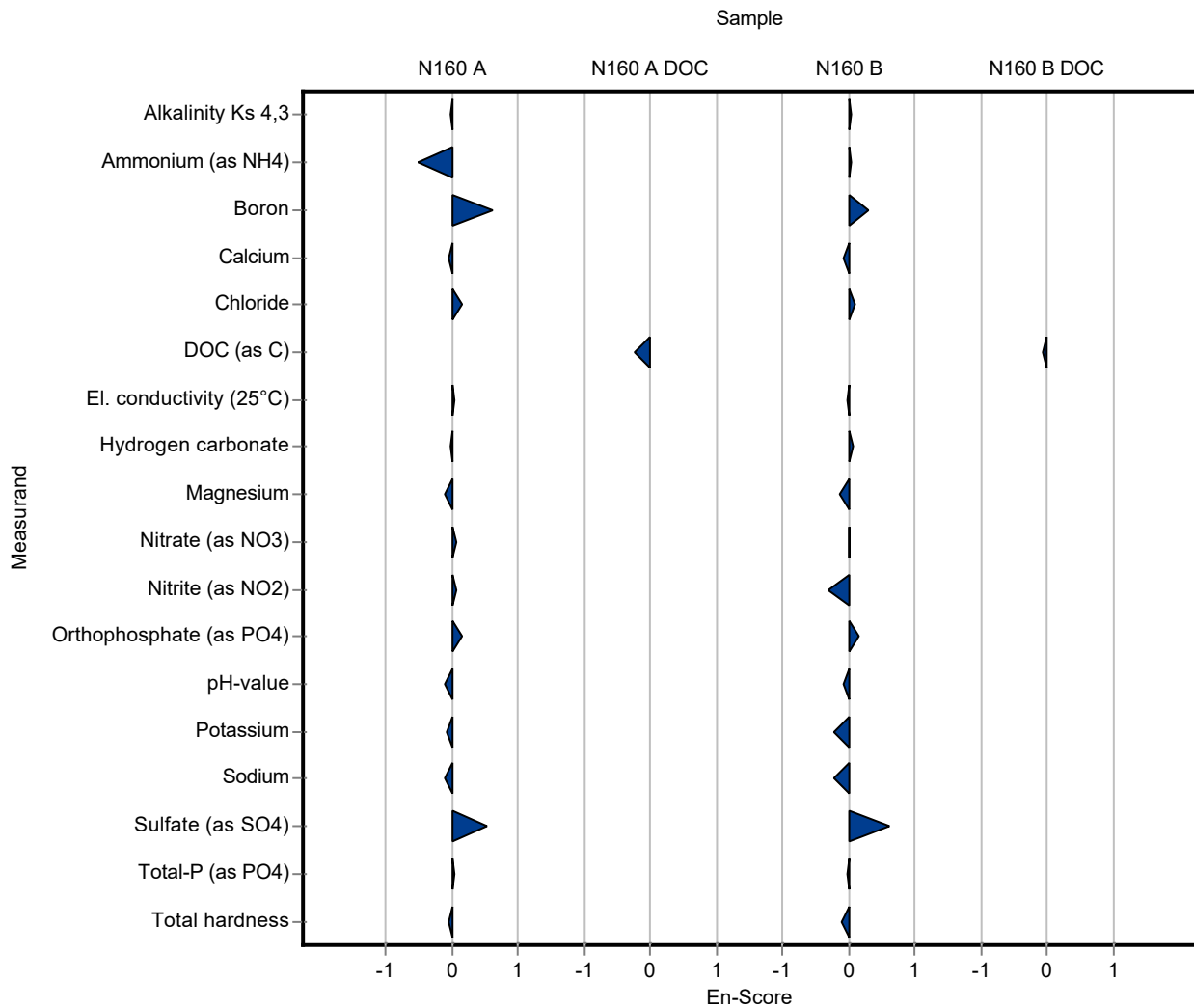
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.55 ± 0.533	0.0704	101	0.03
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.286 ± 0.0286	0.0341	101	0.03
Boron	mg/l	0.0149 ± 0.000559	0.016 ± 0.0019	0.00164	107	0.29

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	60.26 ± 6.026	1.9	98.3	-0.09
Chloride	mg/l	22.3 ± 0.157	22.51 ± 1.126	0.891	101	0.10
El. conductivity (25°C)	µS/cm	474 ± 1.13	473 ± 18.9	6.16	99.8	-0.03
Hydrogen carbonate	mg/l	213 ± 1.3	216.6 ± 32.49	4.26	102	0.05
Magnesium	mg/l	14.9 ± 0.135	14.53 ± 1.453	0.598	97.2	-0.14
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.457 ± 0.5383	0.672	100	0.02
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.184 ± 0.0147	0.0102	95.3	-0.31
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.113 ± 0.0136	0.0174	104	0.15
pH-value	-	8.07 ± 0.019	8 ± 0.48	0.161	99.1	-0.07
Potassium	mg/l	2.18 ± 0.0235	2.09 ± 0.209	0.113	95.9	-0.22
Sodium	mg/l	14.3 ± 0.118	13.67 ± 1.367	0.485	95.9	-0.22
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	31.4 ± 1.57	0.973	106	0.61
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.923 ± 0.1386	0.0694	99.7	-0.01
Total hardness	mmol/l	2.14 ± 0.0185	2.1 ± 0.21	0.0643	97.9	-0.11
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.6 ± 0.21	0.263	99	-0.06



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0535 ± 0.008	0.00952	67.4	-2.71
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	121 ± 12	4.42	84.9	-4.88
Chloride	mg/l	72.1 ± 0.47	73.5 ± 4.7	2.89	102	0.47
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1060 ± 11	13.6	101	0.76
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	33.5 ± 3.4	1.41	95	-1.24
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	20.3 ± 0.71	1.19	85.4	-2.93
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.291 ± 0.027	0.0153	101	0.17
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.063 ± 0.00075	0.00987	102	0.14
pH-value	-	7.69 ± 0.0265	7.67 ± 0.046	0.154	99.8	-0.10
Potassium	mg/l	5.32 ± 0.0504	5.45 ± 0.55	0.277	102	0.46
Sodium	mg/l	31.6 ± 0.245	31.9 ± 1.6	1.07	101	0.27
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	4.43 ± 0.44	0.15	88.5	-3.83
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.212 ± 0.032	0.0341	74.5	-2.12
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	61.6 ± 6.2	1.9	100	0.15

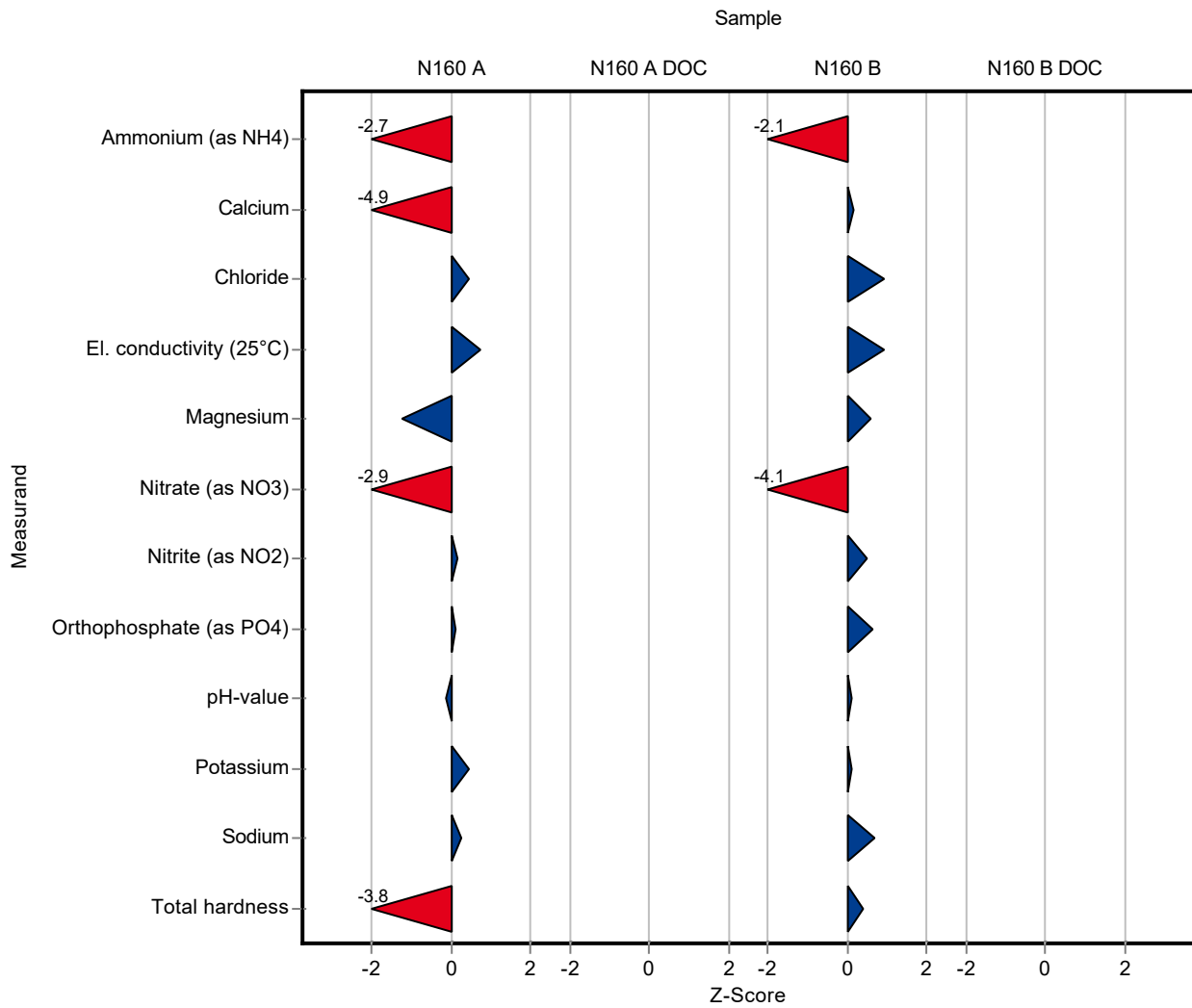
Summary of results Nutrients/Major Ions N160

Labcode: LC0062

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	23.1 ± 1.5	0.891	104	0.92
El. conductivity (25°C)	µS/cm	474 ± 1.13	480 ± 5	6.16	101	0.95
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.3 ± 1.5	0.598	102	0.58
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	10.7 ± 0.38	0.672	79.6	-4.07
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.198 ± 0.019	0.0102	103	0.47
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.12 ± 0.014	0.0174	110	0.63
pH-value	-	8.07 ± 0.019	8.09 ± 0.048	0.161	100	0.13
Potassium	mg/l	2.18 ± 0.0235	2.19 ± 0.22	0.113	100	0.08
Sodium	mg/l	14.3 ± 0.118	14.6 ± 8	0.485	102	0.70
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.17 ± 0.22	0.0643	101	0.39
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0535 ± 0.008	0.00952	67.4	-1.59
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	121 ± 12	4.42	84.9	-0.90
Chloride	mg/l	72.1 ± 0.47	73.5 ± 4.7	2.89	102	0.14
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1060 ± 11	13.6	101	0.46
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	33.5 ± 3.4	1.41	95	-0.26
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	20.3 ± 0.71	1.19	85.4	-2.42
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.291 ± 0.027	0.0153	101	0.05
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.063 ± 0.00075	0.00987	102	0.38
pH-value	-	7.69 ± 0.0265	7.67 ± 0.046	0.154	99.8	-0.17
Potassium	mg/l	5.32 ± 0.0504	5.45 ± 0.55	0.277	102	0.12
Sodium	mg/l	31.6 ± 0.245	31.9 ± 1.6	1.07	101	0.09
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	4.43 ± 0.44	0.15	88.5	-0.65
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.212 ± 0.032	0.0341	74.5	-1.13
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

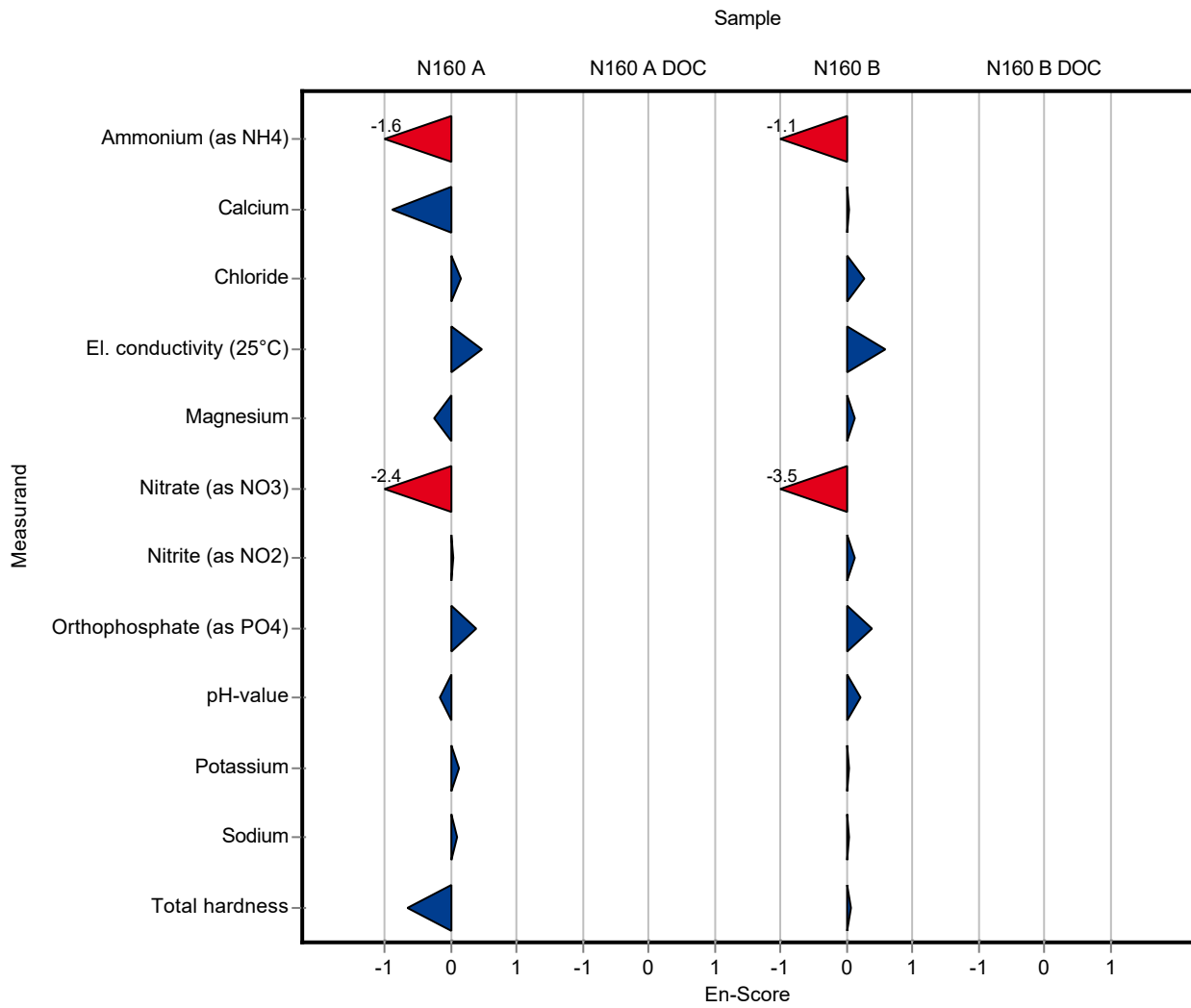
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0062

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61.6 ± 6.2	1.9	100	0.02
Chloride	mg/l	22.3 ± 0.157	23.1 ± 1.5	0.891	104	0.27
El. conductivity (25°C)	µS/cm	474 ± 1.13	480 ± 5	6.16	101	0.58
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.3 ± 1.5	0.598	102	0.12
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	10.7 ± 0.38	0.672	79.6	-3.55
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.198 ± 0.019	0.0102	103	0.13
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.12 ± 0.014	0.0174	110	0.39
pH-value	-	8.07 ± 0.019	8.09 ± 0.048	0.161	100	0.21
Potassium	mg/l	2.18 ± 0.0235	2.19 ± 0.22	0.113	100	0.02
Sodium	mg/l	14.3 ± 0.118	14.6 ± 8	0.485	102	0.02
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.17 ± 0.22	0.0643	101	0.06
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	3.94 ± 0.02	0.159	49.6	-25.20
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0526 ± 0.002	0.00952	66.3	-2.81
Boron	mg/l	0.0747 ± 0.00166	0.0683 ± 0.005	0.00822	91.4	-0.78
Calcium	mg/l	143 ± 1.42	144.9 ± 2.1	4.42	102	0.53
Chloride	mg/l	72.1 ± 0.47	66.08 ± 1.1	2.89	91.6	-2.10
El. conductivity (25°C)	µS/cm	1050 ± 3.6	992.5 ± 2	13.6	94.6	-4.19
Hydrogen carbonate	mg/l	483 ± 1.82	479.9 ± 0.04	9.66	99.4	-0.32
Magnesium	mg/l	35.3 ± 0.274	35.2 ± 0.3	1.41	99.8	-0.04
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.5 ± 0.4	1.19	94.6	-1.08
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.279 ± 0.001	0.0153	96.7	-0.61
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<0.4 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.67 ± 0.15	0.154	99.8	-0.10
Potassium	mg/l	5.32 ± 0.0504	4.95 ± 0.3	0.277	93	-1.35
Sodium	mg/l	31.6 ± 0.245	30.3 ± 0.6	1.07	95.8	-1.22
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	51 ± 2.2	1.78	94.7	-1.61
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.2 ± 0.03	0.0891	101	0.14
Total hardness	mmol/l	5 ± 0.0376	4.95 ± 0.04	0.15	98.9	-0.36
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	1.73 ± 0.01	0.0704	49.2	-25.40
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.253 ± 0.01	0.0341	88.9	-0.92
Boron	mg/l	0.0149 ± 0.000559	0.0141 ± 0.01	0.00164	94.6	-0.49
Calcium	mg/l	61.3 ± 0.649	61.4 ± 1.9	1.9	100	0.05

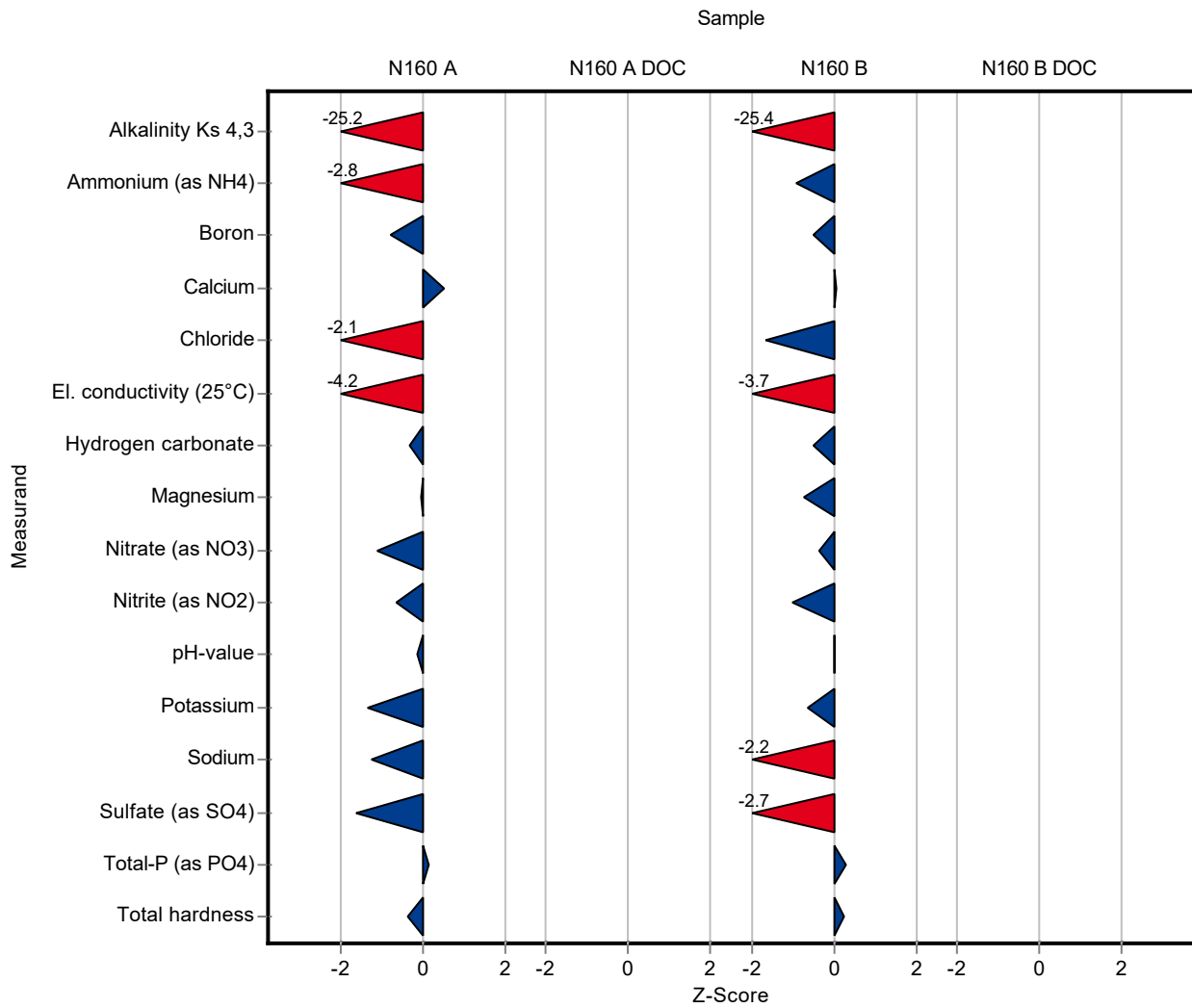
Summary of results Nutrients/Major Ions N160

Labcode: LC0063

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	20.8 ± 0.6	0.891	93.4	-1.66
El. conductivity (25°C)	µS/cm	474 ± 1.13	451.3 ± 2	6.16	95.2	-3.70
Hydrogen carbonate	mg/l	213 ± 1.3	210.8 ± 0.02	4.26	99	-0.52
Magnesium	mg/l	14.9 ± 0.135	14.5 ± 0.3	0.598	97	-0.75
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.2 ± 0.4	0.672	98.2	-0.35
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.183 ± 0.02	0.0102	94.7	-0.99
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	<0.4 (LOQ) ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.07 ± 0.15	0.161	100	0.00
Potassium	mg/l	2.18 ± 0.0235	2.11 ± 0.5	0.113	96.8	-0.62
Sodium	mg/l	14.3 ± 0.118	13.2 ± 1.3	0.485	92.6	-2.19
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	26.9 ± 1.5	0.973	91.2	-2.66
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.946 ± 0.004	0.0694	102	0.30
Total hardness	mmol/l	2.14 ± 0.0185	2.16 ± 0.01	0.0643	101	0.24
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	3.94 ± 0.02	0.159	49.6	-83.60
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0526 ± 0.002	0.00952	66.3	-5.57
Boron	mg/l	0.0747 ± 0.00166	0.0683 ± 0.005	0.00822	91.4	-0.63
Calcium	mg/l	143 ± 1.42	144.9 ± 2.1	4.42	102	0.53
Chloride	mg/l	72.1 ± 0.47	66.08 ± 1.1	2.89	91.6	-2.70
El. conductivity (25°C)	µS/cm	1050 ± 3.6	992.5 ± 2	13.6	94.6	-10.60
Hydrogen carbonate	mg/l	483 ± 1.82	479.9 ± 0.04	9.66	99.4	-1.68
Magnesium	mg/l	35.3 ± 0.274	35.2 ± 0.3	1.41	99.8	-0.08
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.5 ± 0.4	1.19	94.6	-1.54
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.279 ± 0.001	0.0153	96.7	-2.29
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<0.4 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.67 ± 0.15	0.154	99.8	-0.05
Potassium	mg/l	5.32 ± 0.0504	4.95 ± 0.3	0.277	93	-0.62
Sodium	mg/l	31.6 ± 0.245	30.3 ± 0.6	1.07	95.8	-1.07
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	51 ± 2.2	1.78	94.7	-0.65
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.2 ± 0.03	0.0891	101	0.19
Total hardness	mmol/l	5 ± 0.0376	4.95 ± 0.04	0.15	98.9	-0.62
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	1.73 ± 0.01	0.0704	49.2	-73.20
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.253 ± 0.01	0.0341	88.9	-1.53
Boron	mg/l	0.0149 ± 0.000559	0.0141 ± 0.01	0.00164	94.6	-0.04

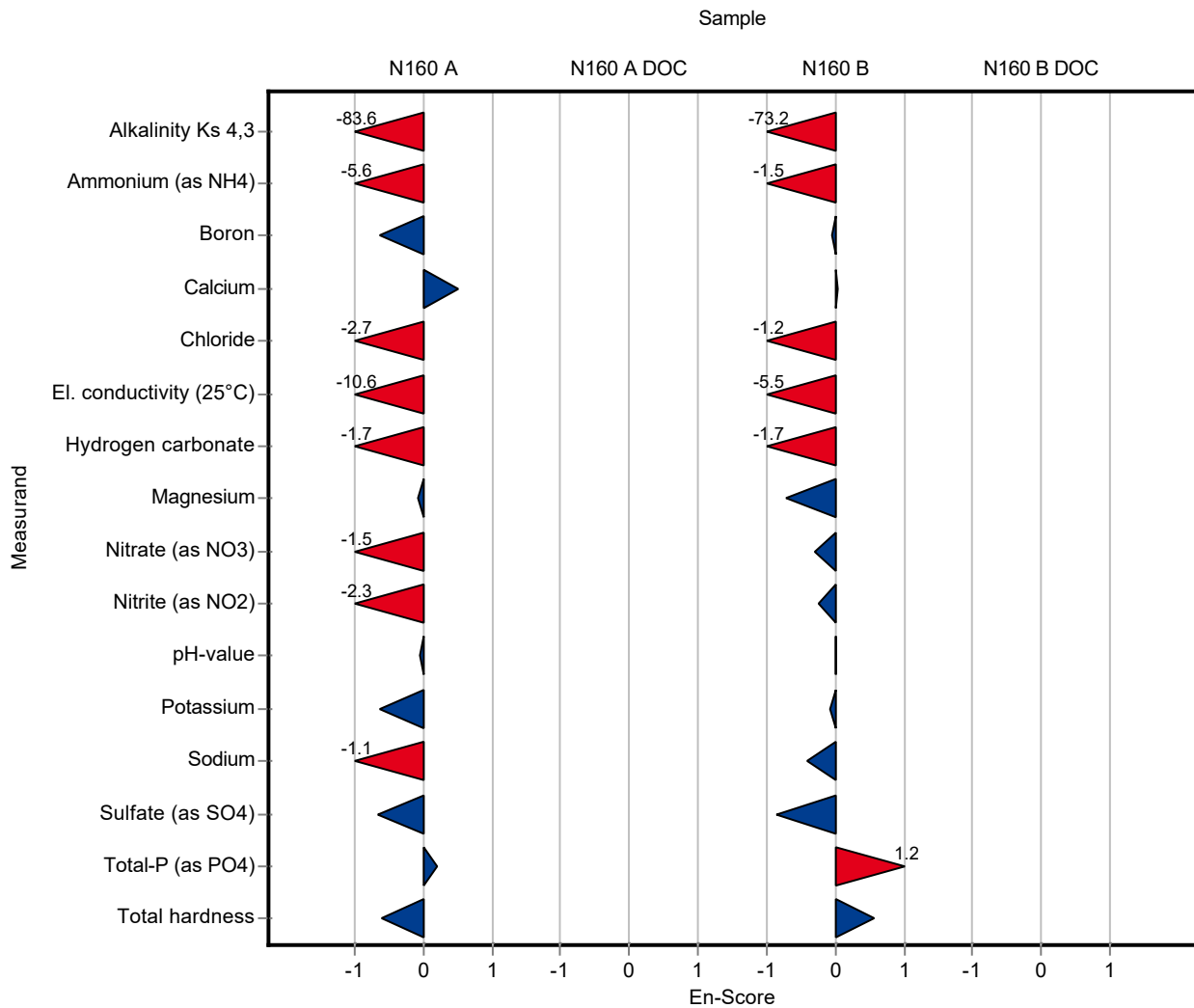
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0063

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61.4 ± 1.9	1.9	100	0.02
Chloride	mg/l	22.3 ± 0.157	20.8 ± 0.6	0.891	93.4	-1.22
El. conductivity (25°C)	µS/cm	474 ± 1.13	451.3 ± 2	6.16	95.2	-5.49
Hydrogen carbonate	mg/l	213 ± 1.3	210.8 ± 0.02	4.26	99	-1.72
Magnesium	mg/l	14.9 ± 0.135	14.5 ± 0.3	0.598	97	-0.73
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.2 ± 0.4	0.672	98.2	-0.29
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.183 ± 0.02	0.0102	94.7	-0.25
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	<0.4 (LOQ) ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.07 ± 0.15	0.161	100	0.00
Potassium	mg/l	2.18 ± 0.0235	2.11 ± 0.5	0.113	96.8	-0.07
Sodium	mg/l	14.3 ± 0.118	13.2 ± 1.3	0.485	92.6	-0.41
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	26.9 ± 1.5	0.973	91.2	-0.86
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.946 ± 0.004	0.0694	102	1.22
Total hardness	mmol/l	2.14 ± 0.0185	2.16 ± 0.01	0.0643	101	0.56
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.94 ± 0.08	0.159	99.9	-0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	72.7 ± 1.69	2.89	101	0.19
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1043 ± 18.7	13.6	99.4	-0.49
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	26.8 ± 2	1.19	113	2.54
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	<0.5 (LOD) ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.7 ± 0.2	0.154	100	0.09
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	5 ± 0.48	0.15	99.9	-0.03
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.04	0.0704	99.5	-0.25
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

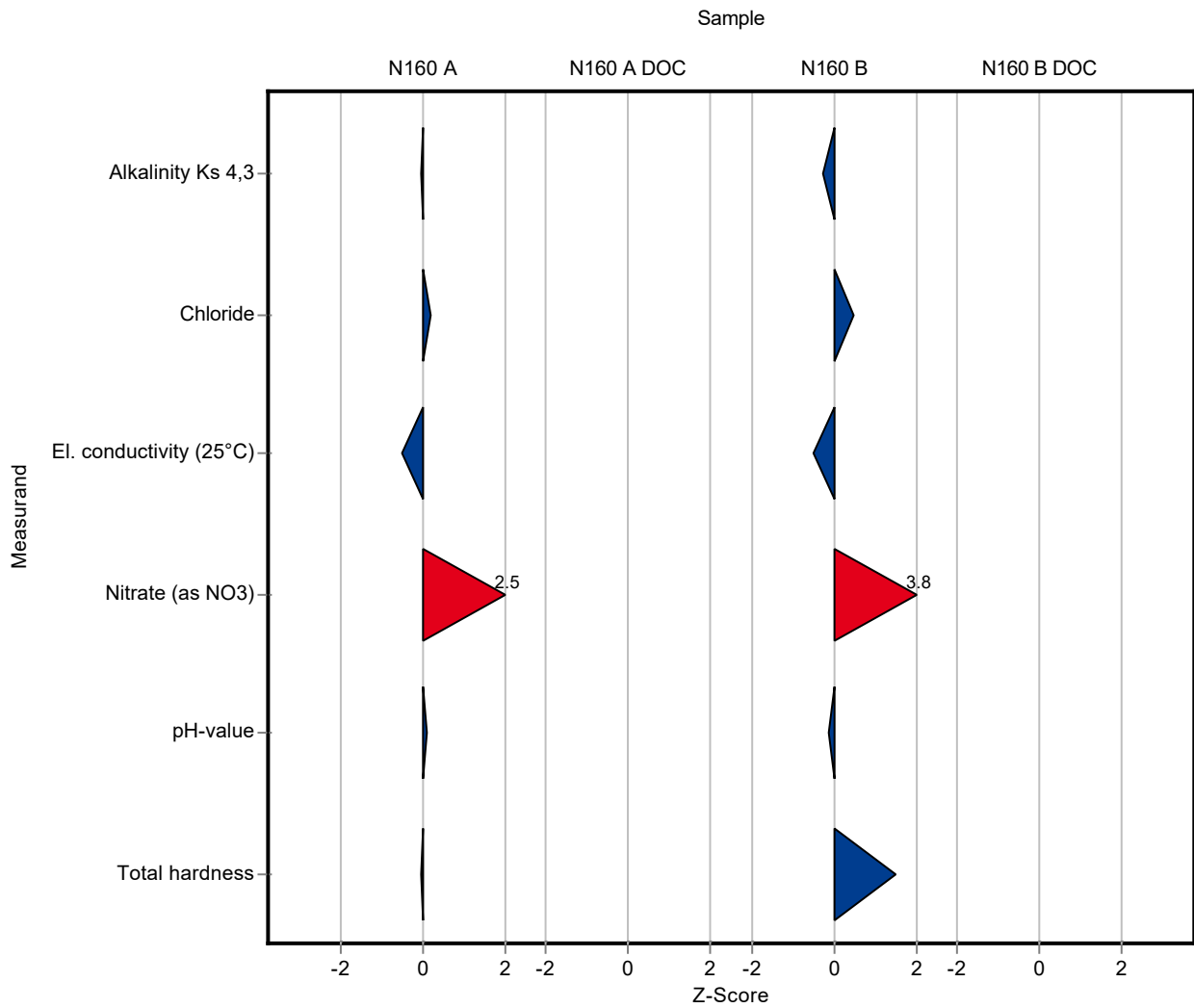
Summary of results Nutrients/Major Ions N160

Labcode: LC0064

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.7 ± 1.65	0.891	102	0.47
El. conductivity (25°C)	µS/cm	474 ± 1.13	471 ± 23.7	6.16	99.3	-0.51
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	16 ± 2	0.672	119	3.81
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	<0.5 (LOD) ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.05 ± 0.2	0.161	99.8	-0.12
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.24 ± 0.48	0.0643	104	1.48
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.94 ± 0.08	0.159	99.9	-0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	72.7 ± 1.69	2.89	101	0.16
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1043 ± 18.7	13.6	99.4	-0.18
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	26.8 ± 2	1.19	113	0.75
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	<0.5 (LOD) ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.7 ± 0.2	0.154	100	0.03
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	5 ± 0.48	0.15	99.9	0.00
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

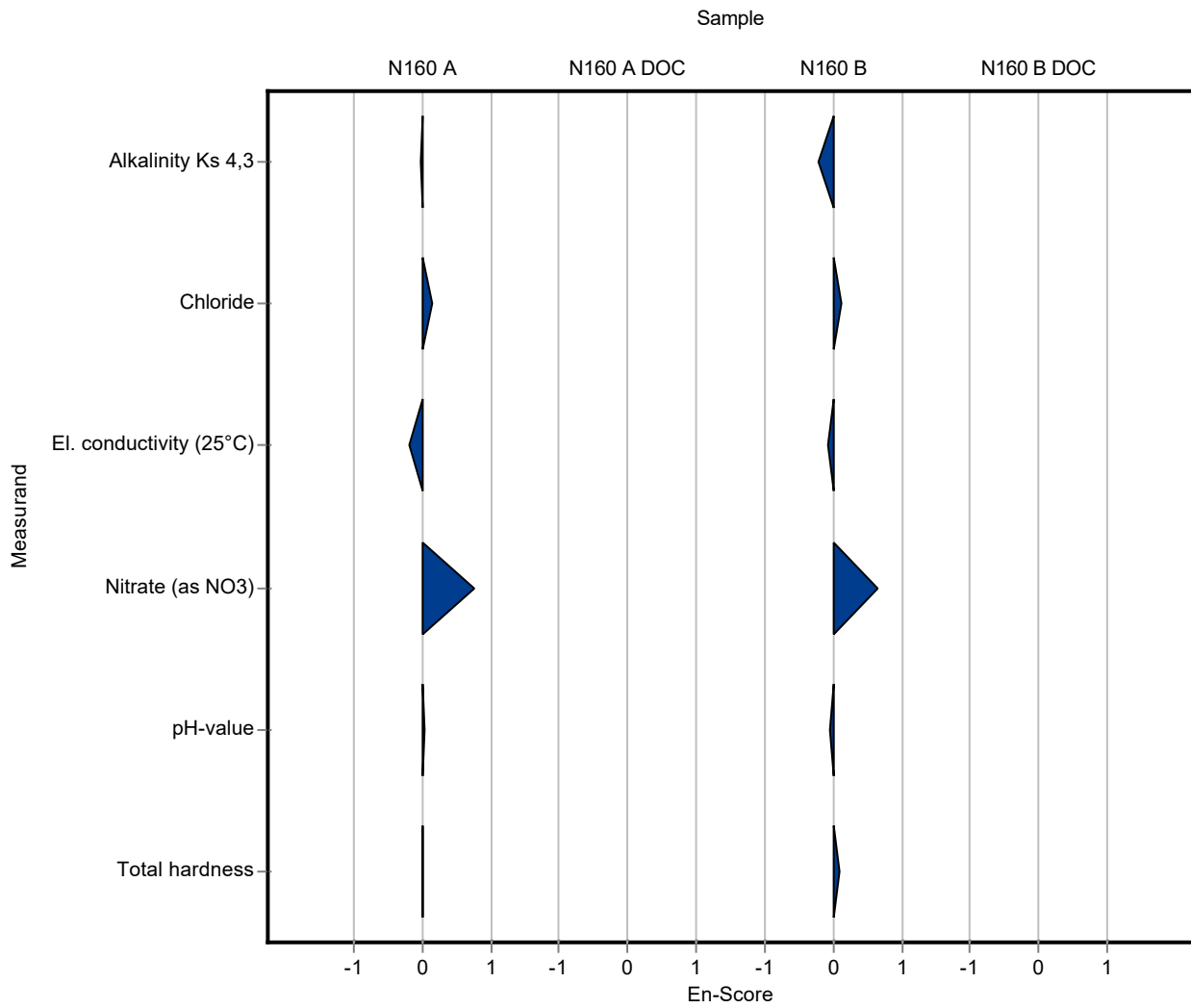
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.5 ± 0.04	0.0704	99.5	-0.22
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	22.7 ± 1.65	0.891	102	0.13
El. conductivity (25°C)	µS/cm	474 ± 1.13	471 ± 23.7	6.16	99.3	-0.07
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	16 ± 2	0.672	119	0.64
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	<0.5 (LOD) ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.05 ± 0.2	0.161	99.8	-0.05
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	2.24 ± 0.48	0.0643	104	0.10
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.84 ± 0.58	0.159	98.7	-0.66
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.088 ± 0.009	0.00952	111	0.91
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	151 ± 8.7	4.42	106	1.91
Chloride	mg/l	72.1 ± 0.47	72.91 ± 4.1	2.89	101	0.26
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1053 ± 30.5	13.6	100	0.24
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.83 ± 2.6	1.41	102	0.41
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.09 ± 2.7	1.19	101	0.26
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.283 ± 0.025	0.0153	98.1	-0.35
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.64 ± 0.2	0.154	99.4	-0.30
Potassium	mg/l	5.32 ± 0.0504	5.47 ± 0.43	0.277	103	0.53
Sodium	mg/l	31.6 ± 0.245	31.37 ± 4.3	1.07	99.2	-0.23
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.58 ± 5.3	1.78	101	0.40
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.14 ± 0.09	0.0891	96	-0.54
Total hardness	mmol/l	5 ± 0.0376	5.04 ± 0.29	0.15	101	0.24
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.47 ± 0.26	0.0704	98.6	-0.68
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.319 ± 0.04	0.0341	112	1.01
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	63.89 ± 3.7	1.9	104	1.36

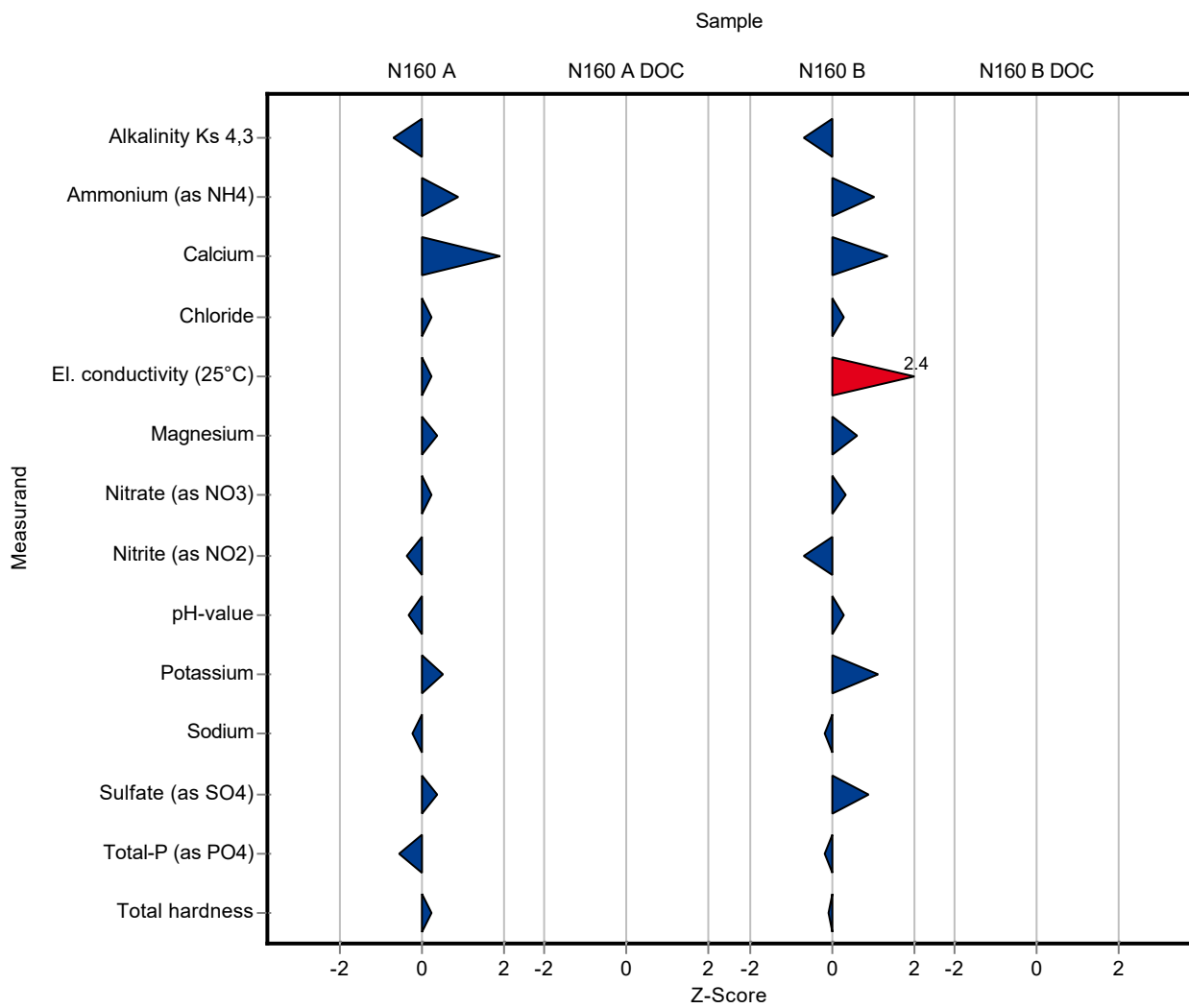
Summary of results Nutrients/Major Ions N160

Labcode: LC0065

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.54 ± 1.3	0.891	101	0.29
El. conductivity (25°C)	µS/cm	474 ± 1.13	489 ± 14.2	6.16	103	2.41
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.31 ± 1.1	0.598	102	0.60
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.66 ± 1.47	0.672	102	0.33
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.186 ± 0.017	0.0102	96.3	-0.70
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.12 ± 0.2	0.161	101	0.31
Potassium	mg/l	2.18 ± 0.0235	2.31 ± 0.18	0.113	106	1.14
Sodium	mg/l	14.3 ± 0.118	14.17 ± 1.93	0.485	99.4	-0.19
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.34 ± 3	0.973	103	0.88
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.912 ± 0.07	0.0694	98.5	-0.19
Total hardness	mmol/l	2.14 ± 0.0185	2.14 ± 0.12	0.0643	99.8	-0.07
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.84 ± 0.58	0.159	98.7	-0.09
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.088 ± 0.009	0.00952	111	0.48
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	151 ± 8.7	4.42	106	0.48
Chloride	mg/l	72.1 ± 0.47	72.91 ± 4.1	2.89	101	0.09
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1053 ± 30.5	13.6	100	0.05
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.83 ± 2.6	1.41	102	0.11
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.09 ± 2.7	1.19	101	0.06
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.283 ± 0.025	0.0153	98.1	-0.11
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.64 ± 0.2	0.154	99.4	-0.12
Potassium	mg/l	5.32 ± 0.0504	5.47 ± 0.43	0.277	103	0.17
Sodium	mg/l	31.6 ± 0.245	31.37 ± 4.3	1.07	99.2	-0.03
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.58 ± 5.3	1.78	101	0.07
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.14 ± 0.09	0.0891	96	-0.27
Total hardness	mmol/l	5 ± 0.0376	5.04 ± 0.29	0.15	101	0.06
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.47 ± 0.26	0.0704	98.6	-0.09
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.319 ± 0.04	0.0341	112	0.43
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

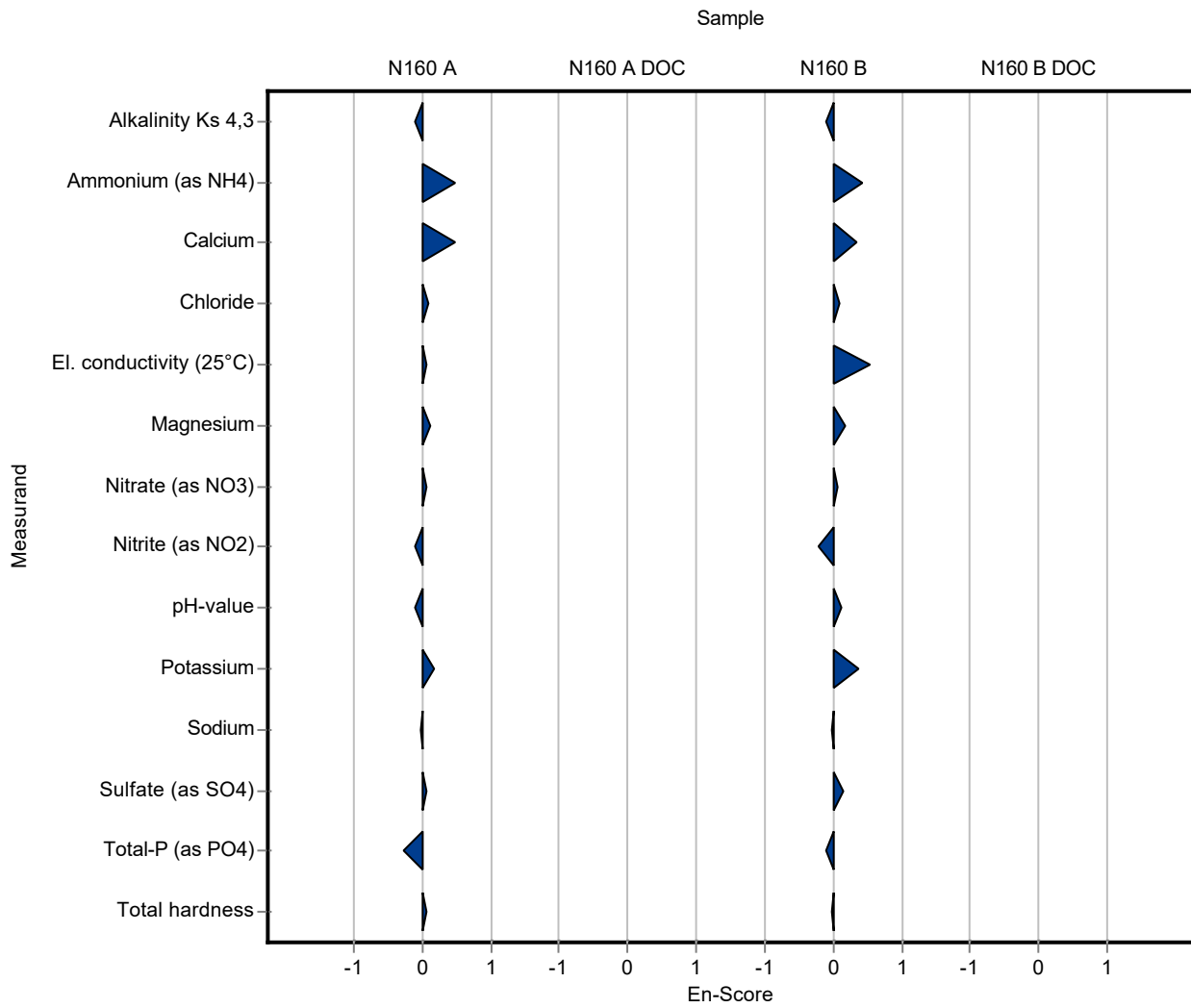
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0065

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	63.89 ± 3.7	1.9	104	0.35
Chloride	mg/l	22.3 ± 0.157	22.54 ± 1.3	0.891	101	0.10
El. conductivity (25°C)	µS/cm	474 ± 1.13	489 ± 14.2	6.16	103	0.52
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.31 ± 1.1	0.598	102	0.16
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.66 ± 1.47	0.672	102	0.08
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.186 ± 0.017	0.0102	96.3	-0.21
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.12 ± 0.2	0.161	101	0.13
Potassium	mg/l	2.18 ± 0.0235	2.31 ± 0.18	0.113	106	0.36
Sodium	mg/l	14.3 ± 0.118	14.17 ± 1.93	0.485	99.4	-0.02
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.34 ± 3	0.973	103	0.14
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.912 ± 0.07	0.0694	98.5	-0.10
Total hardness	mmol/l	2.14 ± 0.0185	2.14 ± 0.12	0.0643	99.8	-0.02
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.92 ± 0.52	0.159	99.7	-0.16
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.101 ± 0.016	0.00952	127	2.27
Boron	mg/l	0.0747 ± 0.00166	0.0757 ± 0.0077	0.00822	101	0.12
Calcium	mg/l	143 ± 1.42	144 ± 7	4.42	101	0.32
Chloride	mg/l	72.1 ± 0.47	70.9 ± 5.5	2.89	98.3	-0.43
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1042 ± 41	13.6	99.3	-0.56
Hydrogen carbonate	mg/l	483 ± 1.82	479.9 ± 31.8	9.66	99.4	-0.32
Magnesium	mg/l	35.3 ± 0.274	34.8 ± 2.2	1.41	98.7	-0.32
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.2 ± 1.4	1.19	93.3	-1.33
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.274 ± 0.021	0.0153	95	-0.94
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.059 ± 0.008	0.00987	95.7	-0.27
pH-value	-	7.69 ± 0.0265	7.5 ± 0.2	0.154	97.6	-1.21
Potassium	mg/l	5.32 ± 0.0504	5.4 ± 0.2	0.277	101	0.28
Sodium	mg/l	31.6 ± 0.245	31.1 ± 1.6	1.07	98.4	-0.48
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.9 ± 5	1.78	100	0.02
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.17 ± 0.17	0.0891	98.5	-0.20
Total hardness	mmol/l	5 ± 0.0376	5.04 ± 0.26	0.15	101	0.24
Total nitrogen	mg/l	5.67 ± 0.147	6 ± 0.8	0.47	106	0.71

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.9 ± 0.4	0.208	91.4	-0.86

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.47 ± 0.24	0.0704	98.6	-0.68
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.271 ± 0.039	0.0341	95.2	-0.40
Boron	mg/l	0.0149 ± 0.000559	0.0156 ± 0.0023	0.00164	105	0.43
Calcium	mg/l	61.3 ± 0.649	62.1 ± 3	1.9	101	0.42

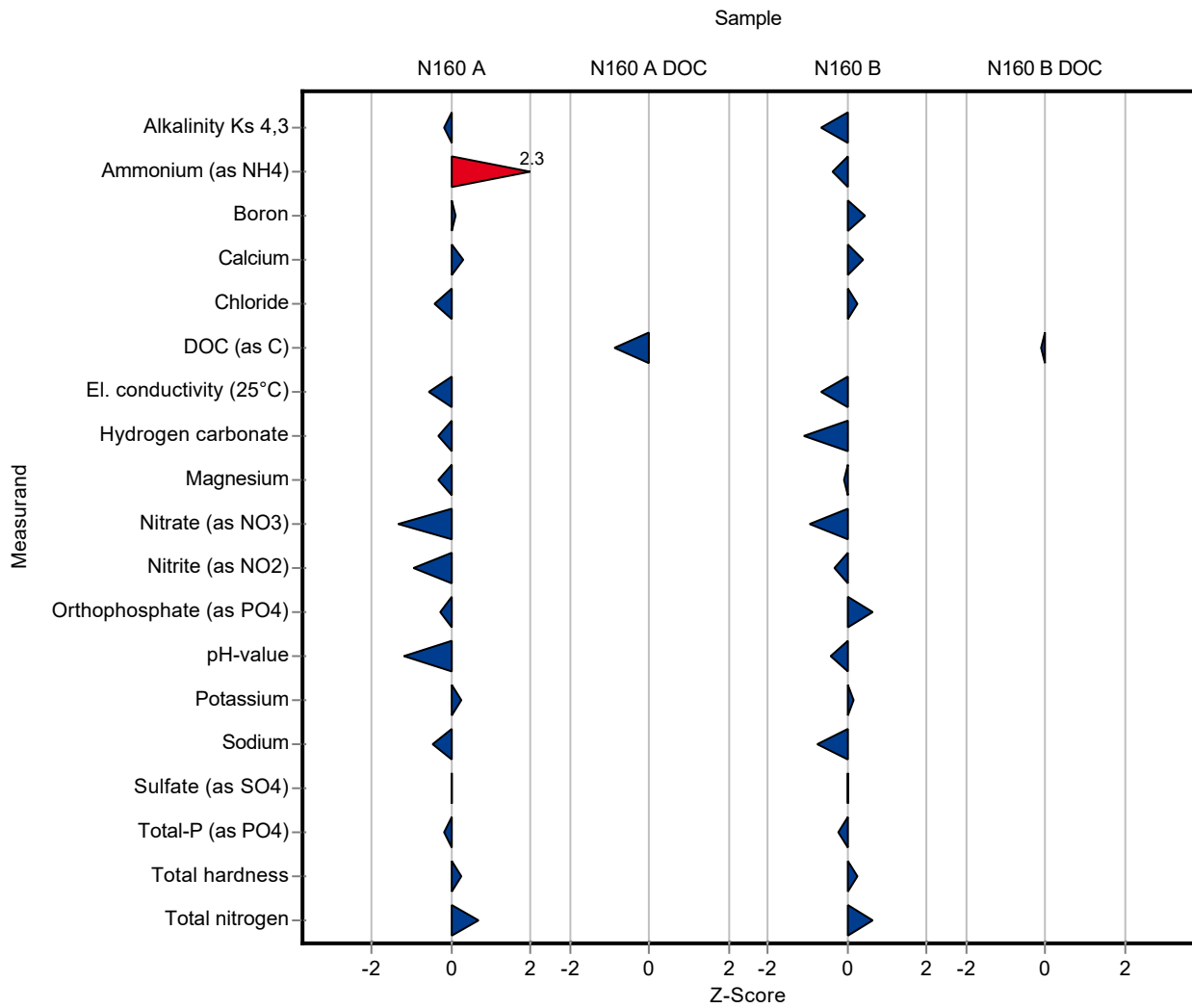
Summary of results Nutrients/Major Ions N160

Labcode: LC0066

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.5 ± 1.9	0.891	101	0.25
El. conductivity (25°C)	µS/cm	474 ± 1.13	470 ± 19	6.16	99.1	-0.67
Hydrogen carbonate	mg/l	213 ± 1.3	208.4 ± 14.9	4.26	97.8	-1.09
Magnesium	mg/l	14.9 ± 0.135	14.9 ± 1	0.598	99.7	-0.08
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.8 ± 0.8	0.672	95.3	-0.95
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.19 ± 0.015	0.0102	98.4	-0.31
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.12 ± 0.016	0.0174	110	0.63
pH-value	-	8.07 ± 0.019	8 ± 0.2	0.161	99.1	-0.43
Potassium	mg/l	2.18 ± 0.0235	2.2 ± 0.1	0.113	101	0.17
Sodium	mg/l	14.3 ± 0.118	13.9 ± 0.7	0.485	97.5	-0.75
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.5 ± 2.8	0.973	100	0.02
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.908 ± 0.13	0.0694	98.1	-0.25
Total hardness	mmol/l	2.14 ± 0.0185	2.16 ± 0.11	0.0643	101	0.24
Total nitrogen	mg/l	3.42 ± 0.0995	3.6 ± 0.5	0.284	105	0.64

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.6 ± 0.6	0.263	99	-0.10



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.92 ± 0.52	0.159	99.7	-0.02
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.101 ± 0.016	0.00952	127	0.67
Boron	mg/l	0.0747 ± 0.00166	0.0757 ± 0.0077	0.00822	101	0.06
Calcium	mg/l	143 ± 1.42	144 ± 7	4.42	101	0.10
Chloride	mg/l	72.1 ± 0.47	70.9 ± 5.5	2.89	98.3	-0.11
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1042 ± 41	13.6	99.3	-0.09
Hydrogen carbonate	mg/l	483 ± 1.82	479.9 ± 31.8	9.66	99.4	-0.05
Magnesium	mg/l	35.3 ± 0.274	34.8 ± 2.2	1.41	98.7	-0.10
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.2 ± 1.4	1.19	93.3	-0.56
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.274 ± 0.021	0.0153	95	-0.34
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.059 ± 0.008	0.00987	95.7	-0.16
pH-value	-	7.69 ± 0.0265	7.5 ± 0.2	0.154	97.6	-0.46
Potassium	mg/l	5.32 ± 0.0504	5.4 ± 0.2	0.277	101	0.19
Sodium	mg/l	31.6 ± 0.245	31.1 ± 1.6	1.07	98.4	-0.16
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.9 ± 5	1.78	100	0.00
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.17 ± 0.17	0.0891	98.5	-0.05
Total hardness	mmol/l	5 ± 0.0376	5.04 ± 0.26	0.15	101	0.07
Total nitrogen	mg/l	5.67 ± 0.147	6 ± 0.8	0.47	106	0.21

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.9 ± 0.4	0.208	91.4	-0.22

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.47 ± 0.24	0.0704	98.6	-0.10
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.271 ± 0.039	0.0341	95.2	-0.17
Boron	mg/l	0.0149 ± 0.000559	0.0156 ± 0.0023	0.00164	105	0.15

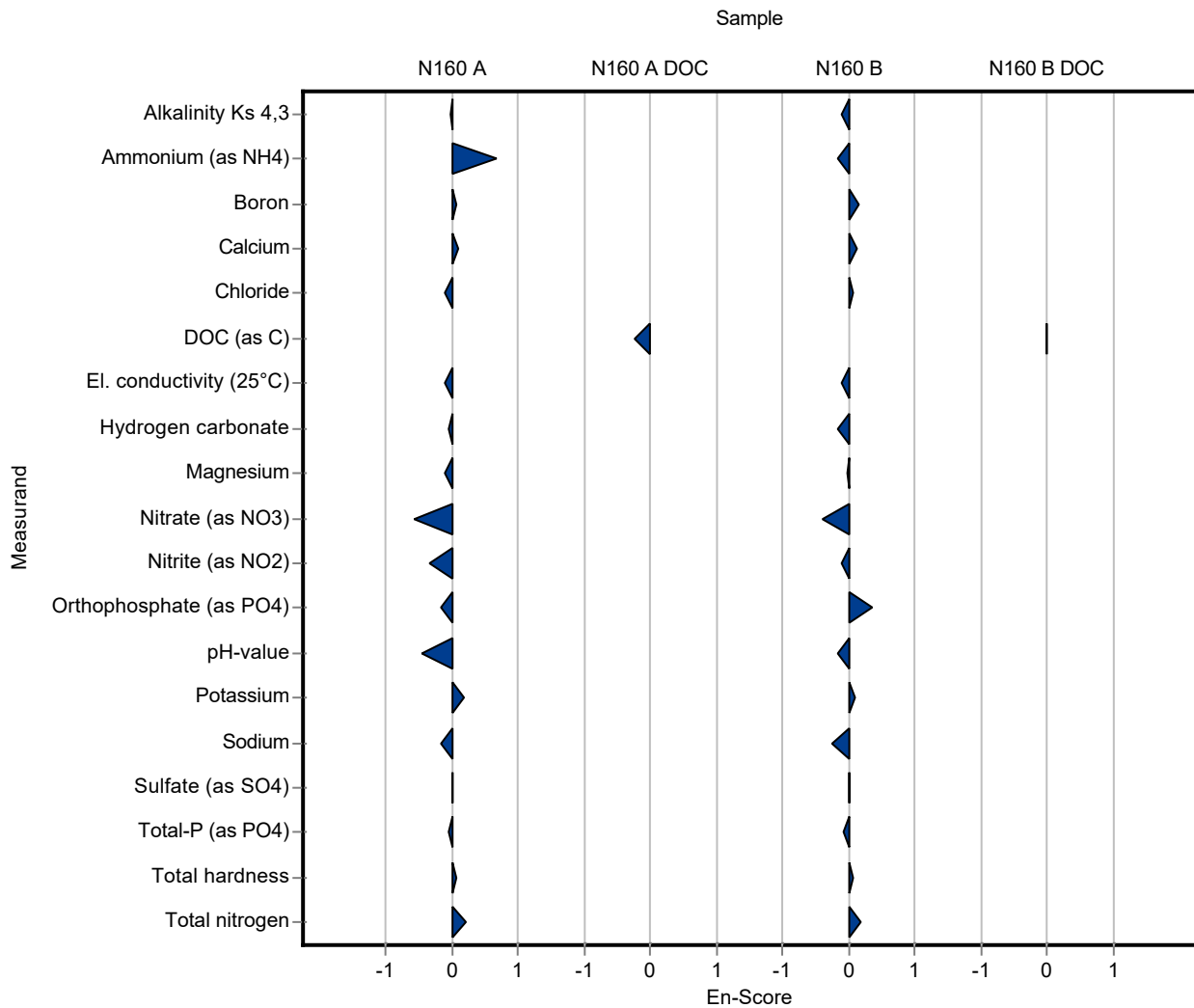
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0066

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	62.1 ± 3	1.9	101	0.13
Chloride	mg/l	22.3 ± 0.157	22.5 ± 1.9	0.891	101	0.06
El. conductivity (25°C)	µS/cm	474 ± 1.13	470 ± 19	6.16	99.1	-0.11
Hydrogen carbonate	mg/l	213 ± 1.3	208.4 ± 14.9	4.26	97.8	-0.15
Magnesium	mg/l	14.9 ± 0.135	14.9 ± 1	0.598	99.7	-0.02
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.8 ± 0.8	0.672	95.3	-0.40
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.19 ± 0.015	0.0102	98.4	-0.10
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.12 ± 0.016	0.0174	110	0.34
pH-value	-	8.07 ± 0.019	8 ± 0.2	0.161	99.1	-0.17
Potassium	mg/l	2.18 ± 0.0235	2.2 ± 0.1	0.113	101	0.10
Sodium	mg/l	14.3 ± 0.118	13.9 ± 0.7	0.485	97.5	-0.26
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.5 ± 2.8	0.973	100	0.00
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.908 ± 0.13	0.0694	98.1	-0.07
Total hardness	mmol/l	2.14 ± 0.0185	2.16 ± 0.11	0.0643	101	0.07
Total nitrogen	mg/l	3.42 ± 0.0995	3.6 ± 0.5	0.284	105	0.18

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.6 ± 0.6	0.263	99	-0.02



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.53 ± 0.48	0.159	94.8	-2.61
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.09 ± 0.02	0.00952	113	1.12
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	142.1 ± 14.2	4.42	99.7	-0.11
Chloride	mg/l	72.1 ± 0.47	70.9 ± 4.9	2.89	98.3	-0.43
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1013 ± 13	13.6	96.5	-2.69
Hydrogen carbonate	mg/l	483 ± 1.82	459.4 ± 29.2	9.66	95.1	-2.44
Magnesium	mg/l	35.3 ± 0.274	34.4 ± 3.4	1.41	97.6	-0.61
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24 ± 1.7	1.19	101	0.18
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.291 ± 0.058	0.0153	101	0.17
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<0.15 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.52 ± 0.08	0.154	97.8	-1.08
Potassium	mg/l	5.32 ± 0.0504	5.2 ± 0.5	0.277	97.7	-0.45
Sodium	mg/l	31.6 ± 0.245	31.4 ± 6.3	1.07	99.3	-0.20
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.3 ± 3.8	1.78	101	0.25
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.23 ± 0.11	0.0891	104	0.47
Total hardness	mmol/l	5 ± 0.0376	4.96 ± 0.31	0.15	99.1	-0.30
Total nitrogen	mg/l	5.67 ± 0.147	6.1 ± 0.67	0.47	108	0.93

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	3.85 ± 0.5	0.208	185	8.51

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.31 ± 0.24	0.0704	94.1	-2.95
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.29 ± 0.06	0.0341	102	0.16
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	61.4 ± 6.1	1.9	100	0.05

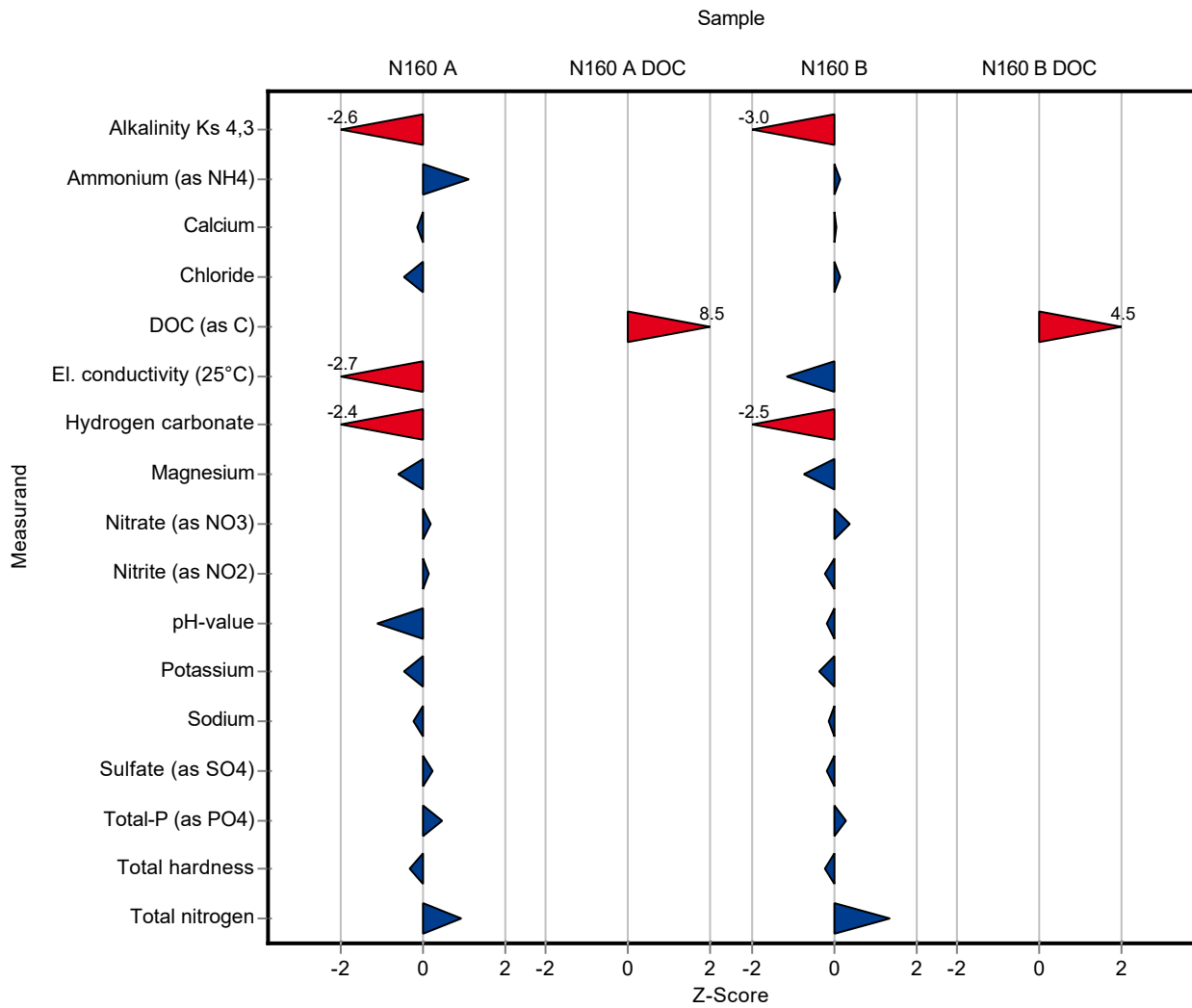
Summary of results Nutrients/Major Ions N160

Labcode: LC0067

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.4 ± 1.6	0.891	101	0.14
El. conductivity (25°C)	µS/cm	474 ± 1.13	467 ± 6	6.16	98.5	-1.16
Hydrogen carbonate	mg/l	213 ± 1.3	202.2 ± 14	4.26	94.9	-2.54
Magnesium	mg/l	14.9 ± 0.135	14.5 ± 1.4	0.598	97	-0.75
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.7 ± 1	0.672	102	0.39
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.191 ± 0.038	0.0102	98.9	-0.21
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	<0.15 (LOQ) ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.04 ± 0.08	0.161	99.6	-0.18
Potassium	mg/l	2.18 ± 0.0235	2.14 ± 0.21	0.113	98.1	-0.36
Sodium	mg/l	14.3 ± 0.118	14.2 ± 1.4	0.485	99.6	-0.13
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.3 ± 2.1	0.973	99.4	-0.19
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.945 ± 0.085	0.0694	102	0.28
Total hardness	mmol/l	2.14 ± 0.0185	2.13 ± 0.15	0.0643	99.3	-0.23
Total nitrogen	mg/l	3.42 ± 0.0995	3.81 ± 0.42	0.284	111	1.38

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	3.81 ± 0.49	0.263	145	4.51



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.53 ± 0.48	0.159	94.8	-0.43
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.09 ± 0.02	0.00952	113	0.27
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	142.1 ± 14.2	4.42	99.7	-0.02
Chloride	mg/l	72.1 ± 0.47	70.9 ± 4.9	2.89	98.3	-0.13
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1013 ± 13	13.6	96.5	-1.40
Hydrogen carbonate	mg/l	483 ± 1.82	459.4 ± 29.2	9.66	95.1	-0.40
Magnesium	mg/l	35.3 ± 0.274	34.4 ± 3.4	1.41	97.6	-0.13
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24 ± 1.7	1.19	101	0.06
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.291 ± 0.058	0.0153	101	0.02
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<0.15 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.52 ± 0.08	0.154	97.8	-1.02
Potassium	mg/l	5.32 ± 0.0504	5.2 ± 0.5	0.277	97.7	-0.12
Sodium	mg/l	31.6 ± 0.245	31.4 ± 6.3	1.07	99.3	-0.02
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	54.3 ± 3.8	1.78	101	0.06
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.23 ± 0.11	0.0891	104	0.19
Total hardness	mmol/l	5 ± 0.0376	4.96 ± 0.31	0.15	99.1	-0.07
Total nitrogen	mg/l	5.67 ± 0.147	6.1 ± 0.67	0.47	108	0.32

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	3.85 ± 0.5	0.208	185	1.77

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.31 ± 0.24	0.0704	94.1	-0.43
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.29 ± 0.06	0.0341	102	0.05
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

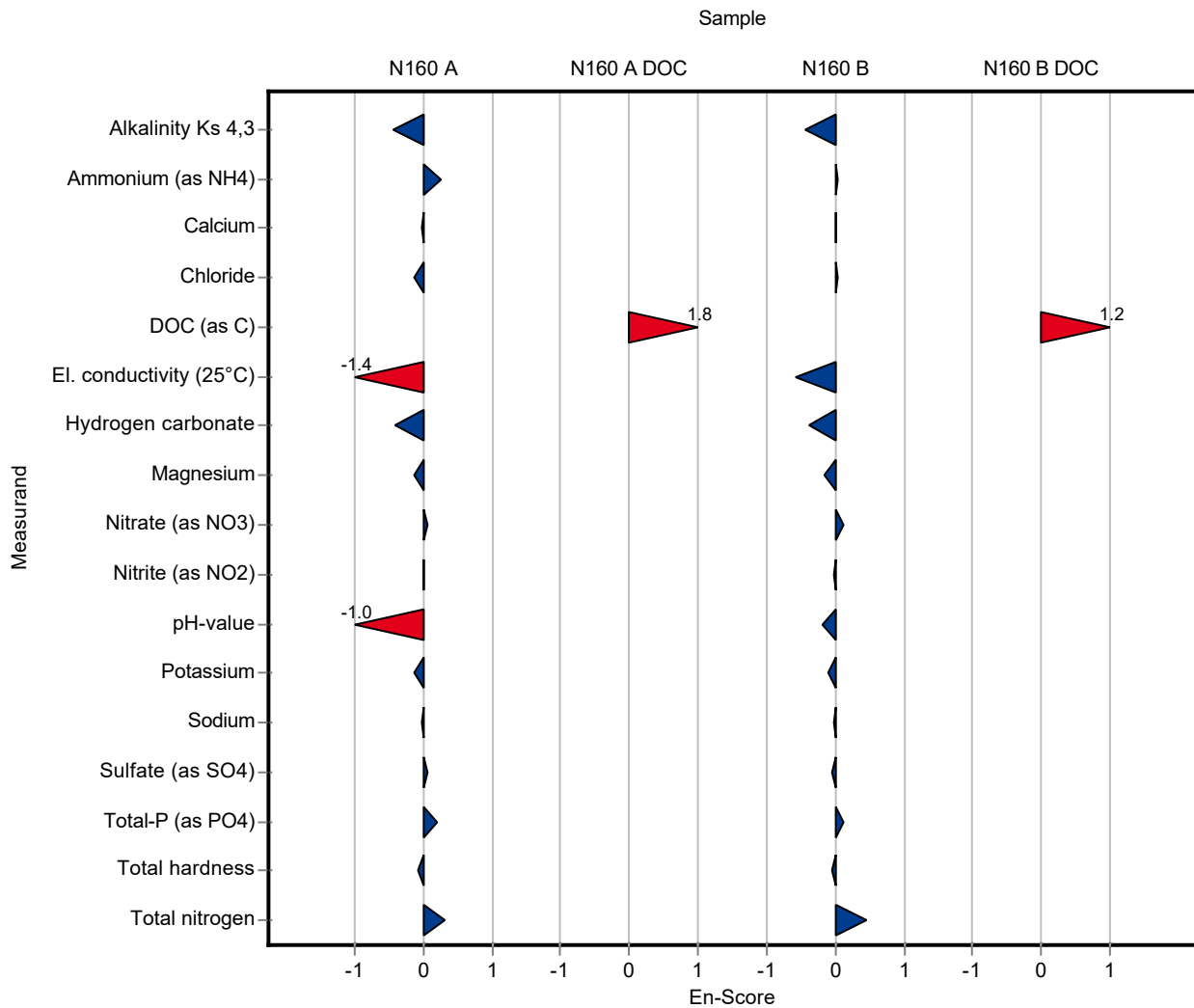
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0067

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61.4 ± 6.1	1.9	100	0.01
Chloride	mg/l	22.3 ± 0.157	22.4 ± 1.6	0.891	101	0.04
El. conductivity (25°C)	µS/cm	474 ± 1.13	467 ± 6	6.16	98.5	-0.59
Hydrogen carbonate	mg/l	213 ± 1.3	202.2 ± 14	4.26	94.9	-0.39
Magnesium	mg/l	14.9 ± 0.135	14.5 ± 1.4	0.598	97	-0.16
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.7 ± 1	0.672	102	0.13
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.191 ± 0.038	0.0102	98.9	-0.03
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	<0.15 (LOQ) ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.04 ± 0.08	0.161	99.6	-0.18
Potassium	mg/l	2.18 ± 0.0235	2.14 ± 0.21	0.113	98.1	-0.10
Sodium	mg/l	14.3 ± 0.118	14.2 ± 1.4	0.485	99.6	-0.02
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.3 ± 2.1	0.973	99.4	-0.04
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.945 ± 0.085	0.0694	102	0.12
Total hardness	mmol/l	2.14 ± 0.0185	2.13 ± 0.15	0.0643	99.3	-0.05
Total nitrogen	mg/l	3.42 ± 0.0995	3.81 ± 0.42	0.284	111	0.46

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	3.81 ± 0.49	0.263	145	1.21



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.1 ± 0.4	0.159	102	0.97
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.075 ± 0.006	0.00952	94.5	-0.46
Boron	mg/l	0.0747 ± 0.00166	0.074 ± 0.008	0.00822	99	-0.09
Calcium	mg/l	143 ± 1.42	142 ± 6.4	4.42	99.6	-0.13
Chloride	mg/l	72.1 ± 0.47	72.1 ± 5.1	2.89	99.9	-0.02
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1053 ± 28	13.6	100	0.24
Hydrogen carbonate	mg/l	483 ± 1.82	494 ± 25	9.66	102	1.14
Magnesium	mg/l	35.3 ± 0.274	34.6 ± 1.4	1.41	98.1	-0.46
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24 ± 1.8	1.19	101	0.18
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.292 ± 0.029	0.0153	101	0.23
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.051 ± 0.007	0.00987	82.7	-1.08
pH-value	-	7.69 ± 0.0265	7.6 ± 0.44	0.154	98.9	-0.56
Potassium	mg/l	5.32 ± 0.0504	5.21 ± 0.67	0.277	97.9	-0.41
Sodium	mg/l	31.6 ± 0.245	30.2 ± 2	1.07	95.5	-1.32
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.9 ± 3.5	1.78	100	0.02
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.42 ± 0.16	0.0891	120	2.61
Total hardness	mmol/l	5 ± 0.0376	4.9 ± 0.2	0.15	97.9	-0.70
Total nitrogen	mg/l	5.67 ± 0.147	5.89 ± 1.6	0.47	104	0.48

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.09 ± 0.3	0.208	100	0.05

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.6 ± 0.2	0.0704	102	1.17
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.29 ± 0.02	0.0341	102	0.16
Boron	mg/l	0.0149 ± 0.000559	0.014 ± 0.002	0.00164	94	-0.55
Calcium	mg/l	61.3 ± 0.649	60.3 ± 2.7	1.9	98.4	-0.53

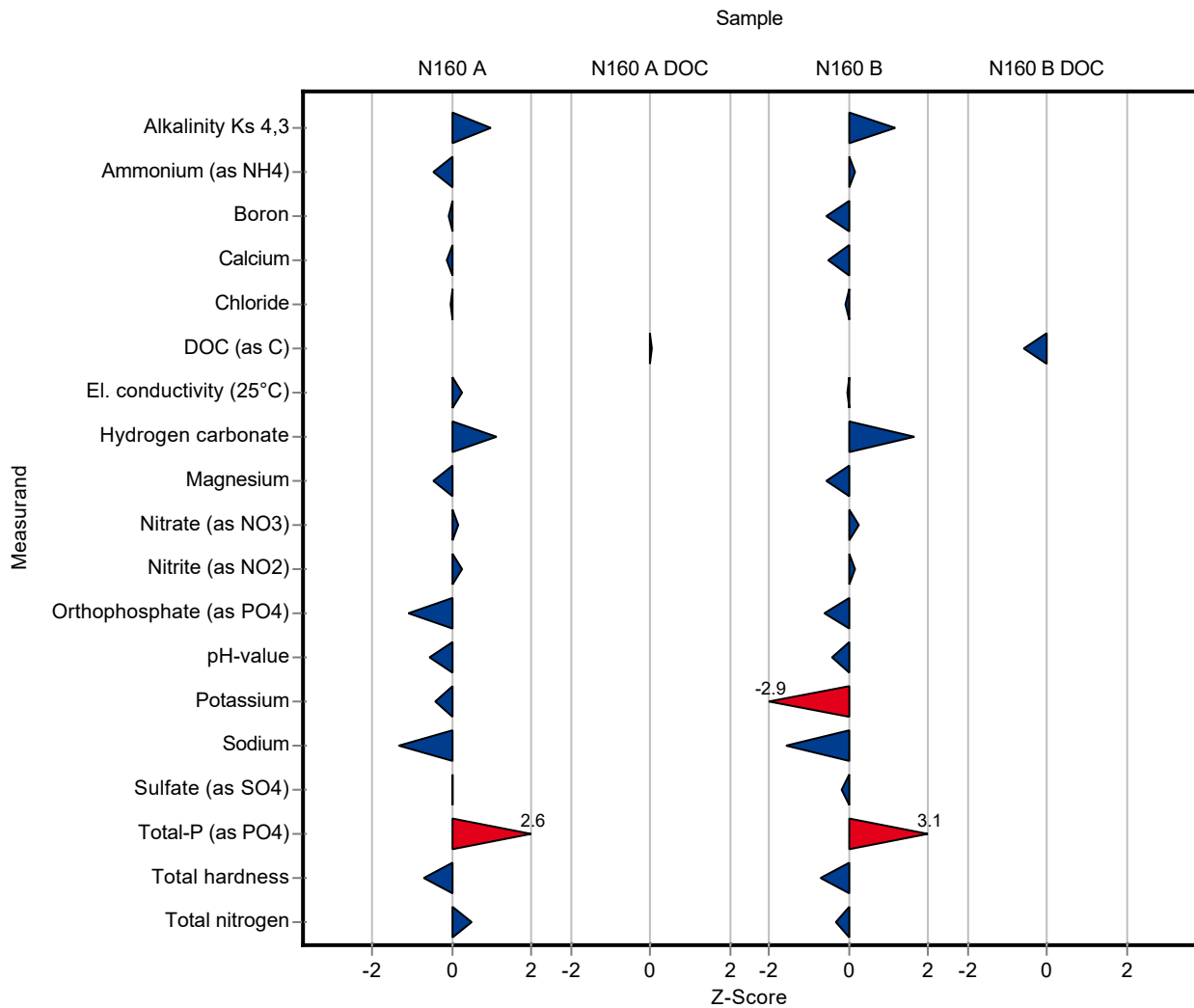
Summary of results Nutrients/Major Ions N160

Labcode: LC0068

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.2 ± 1.6	0.891	99.6	-0.09
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 13	6.16	100	-0.02
Hydrogen carbonate	mg/l	213 ± 1.3	220 ± 11	4.26	103	1.64
Magnesium	mg/l	14.9 ± 0.135	14.6 ± 0.61	0.598	97.7	-0.58
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.6 ± 1	0.672	101	0.24
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.195 ± 0.02	0.0102	101	0.18
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.098 ± 0.013	0.0174	89.9	-0.63
pH-value	-	8.07 ± 0.019	8 ± 0.46	0.161	99.1	-0.43
Potassium	mg/l	2.18 ± 0.0235	1.85 ± 0.24	0.113	84.8	-2.91
Sodium	mg/l	14.3 ± 0.118	13.5 ± 0.88	0.485	94.7	-1.57
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.3 ± 1.9	0.973	99.4	-0.19
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.14 ± 0.13	0.0694	123	3.09
Total hardness	mmol/l	2.14 ± 0.0185	2.1 ± 0.1	0.0643	97.9	-0.69
Total nitrogen	mg/l	3.42 ± 0.0995	3.33 ± 0.91	0.284	97.4	-0.31

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.47 ± 0.35	0.263	94	-0.60



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8.1 ± 0.4	0.159	102	0.19
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.075 ± 0.006	0.00952	94.5	-0.35
Boron	mg/l	0.0747 ± 0.00166	0.074 ± 0.008	0.00822	99	-0.04
Calcium	mg/l	143 ± 1.42	142 ± 6.4	4.42	99.6	-0.04
Chloride	mg/l	72.1 ± 0.47	72.1 ± 5.1	2.89	99.9	0.00
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1053 ± 28	13.6	100	0.06
Hydrogen carbonate	mg/l	483 ± 1.82	494 ± 25	9.66	102	0.22
Magnesium	mg/l	35.3 ± 0.274	34.6 ± 1.4	1.41	98.1	-0.23
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24 ± 1.8	1.19	101	0.06
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.292 ± 0.029	0.0153	101	0.06
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.051 ± 0.007	0.00987	82.7	-0.74
pH-value	-	7.69 ± 0.0265	7.6 ± 0.44	0.154	98.9	-0.10
Potassium	mg/l	5.32 ± 0.0504	5.21 ± 0.67	0.277	97.9	-0.08
Sodium	mg/l	31.6 ± 0.245	30.2 ± 2	1.07	95.5	-0.35
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.9 ± 3.5	1.78	100	0.01
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.42 ± 0.16	0.0891	120	0.72
Total hardness	mmol/l	5 ± 0.0376	4.9 ± 0.2	0.15	97.9	-0.26
Total nitrogen	mg/l	5.67 ± 0.147	5.89 ± 1.6	0.47	104	0.07

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.09 ± 0.3	0.208	100	0.02

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.6 ± 0.2	0.0704	102	0.20
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.29 ± 0.02	0.0341	102	0.14
Boron	mg/l	0.0149 ± 0.000559	0.014 ± 0.002	0.00164	94	-0.22

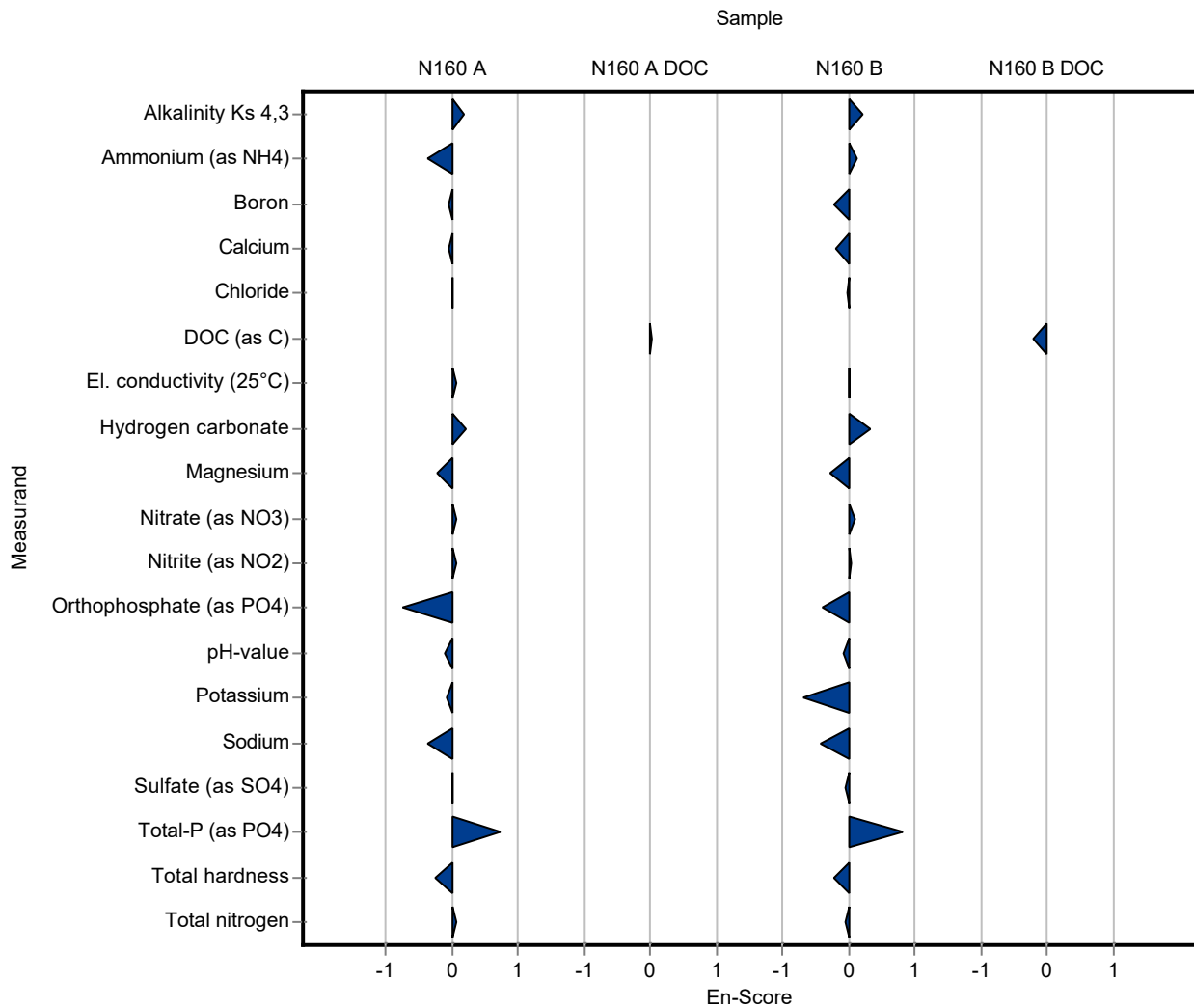
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0068

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	60.3 ± 2.7	1.9	98.4	-0.18
Chloride	mg/l	22.3 ± 0.157	22.2 ± 1.6	0.891	99.6	-0.02
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 13	6.16	100	-0.01
Hydrogen carbonate	mg/l	213 ± 1.3	220 ± 11	4.26	103	0.32
Magnesium	mg/l	14.9 ± 0.135	14.6 ± 0.61	0.598	97.7	-0.28
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.6 ± 1	0.672	101	0.08
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.195 ± 0.02	0.0102	101	0.05
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.098 ± 0.013	0.0174	89.9	-0.41
pH-value	-	8.07 ± 0.019	8 ± 0.46	0.161	99.1	-0.08
Potassium	mg/l	2.18 ± 0.0235	1.85 ± 0.24	0.113	84.8	-0.69
Sodium	mg/l	14.3 ± 0.118	13.5 ± 0.88	0.485	94.7	-0.43
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.3 ± 1.9	0.973	99.4	-0.05
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.14 ± 0.13	0.0694	123	0.82
Total hardness	mmol/l	2.14 ± 0.0185	2.1 ± 0.1	0.0643	97.9	-0.22
Total nitrogen	mg/l	3.42 ± 0.0995	3.33 ± 0.91	0.284	97.4	-0.05

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.47 ± 0.35	0.263	94	-0.22



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.078 ± 0.01	0.00952	98.3	-0.14
Boron	mg/l	0.0747 ± 0.00166	<0.2 (LOQ) ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	61 ± 9.5	4.42	42.8	-18.50
Chloride	mg/l	72.1 ± 0.47	72 ± 2.9	2.89	99.8	-0.05
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1050 ± 53	13.6	100	0.02
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.5 ± 5.2	1.41	101	0.17
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.1 ± 1.9	1.19	97.1	-0.57
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.286 ± 0.03	0.0153	99.2	-0.16
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.093 ± 0.01	0.00987	151	3.18
pH-value	-	7.69 ± 0.0265	7.49 ± 0.2	0.154	97.4	-1.28
Potassium	mg/l	5.32 ± 0.0504	5.26 ± 0.94	0.277	98.8	-0.23
Sodium	mg/l	31.6 ± 0.245	32.5 ± 3.79	1.07	103	0.82
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	52.3 ± 3.2	1.78	97.1	-0.88
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.23 ± 0.1	0.0891	104	0.47
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.289 ± 0.03	0.0341	102	0.13
Boron	mg/l	0.0149 ± 0.000559	<0.2 (LOQ) ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	143 ± 22	1.9	233	43.00

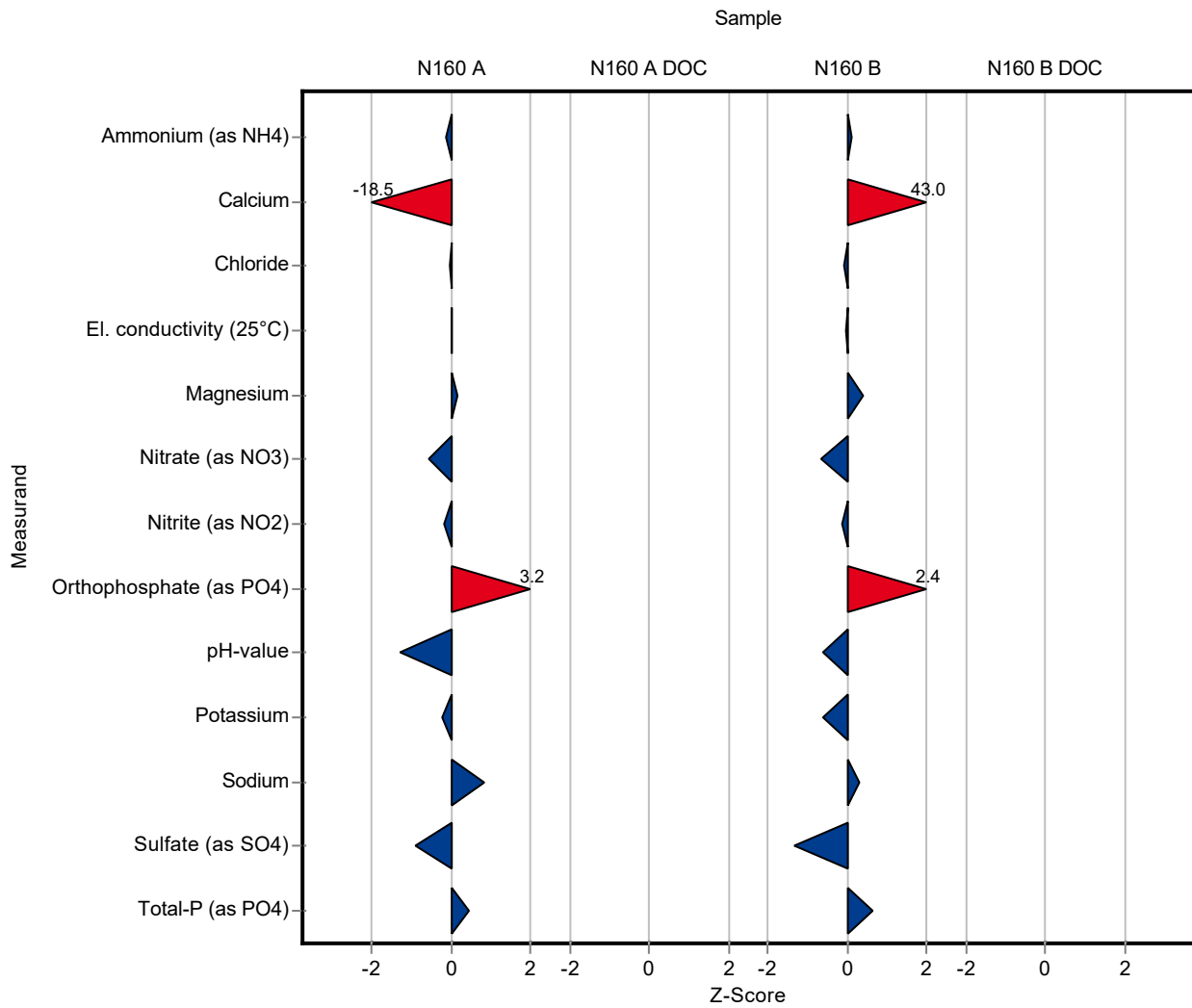
Summary of results Nutrients/Major Ions N160

Labcode: LC0069

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22.2 ± 0.9	0.891	99.6	-0.09
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 24	6.16	100	-0.02
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.2 ± 2.2	0.598	102	0.42
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13 ± 1.1	0.672	96.7	-0.65
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.192 ± 0.02	0.0102	99.4	-0.11
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.15 ± 0.01	0.0174	138	2.35
pH-value	-	8.07 ± 0.019	7.97 ± 0.2	0.161	98.8	-0.62
Potassium	mg/l	2.18 ± 0.0235	2.11 ± 0.38	0.113	96.8	-0.62
Sodium	mg/l	14.3 ± 0.118	14.4 ± 1.7	0.485	101	0.28
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.2 ± 1.8	0.973	95.6	-1.32
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.971 ± 0.08	0.0694	105	0.66
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.078 ± 0.01	0.00952	98.3	-0.07
Boron	mg/l	0.0747 ± 0.00166	<0.2 (LOQ) ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	61 ± 9.5	4.42	42.8	-4.28
Chloride	mg/l	72.1 ± 0.47	72 ± 2.9	2.89	99.8	-0.03
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1050 ± 53	13.6	100	0.00
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.5 ± 5.2	1.41	101	0.02
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.1 ± 1.9	1.19	97.1	-0.18
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.286 ± 0.03	0.0153	99.2	-0.04
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.093 ± 0.01	0.00987	151	1.55
pH-value	-	7.69 ± 0.0265	7.49 ± 0.2	0.154	97.4	-0.49
Potassium	mg/l	5.32 ± 0.0504	5.26 ± 0.94	0.277	98.8	-0.03
Sodium	mg/l	31.6 ± 0.245	32.5 ± 3.79	1.07	103	0.12
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	52.3 ± 3.2	1.78	97.1	-0.24
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.23 ± 0.1	0.0891	104	0.21
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.289 ± 0.03	0.0341	102	0.07
Boron	mg/l	0.0149 ± 0.000559	<0.2 (LOQ) ± -	0.00164	-	-

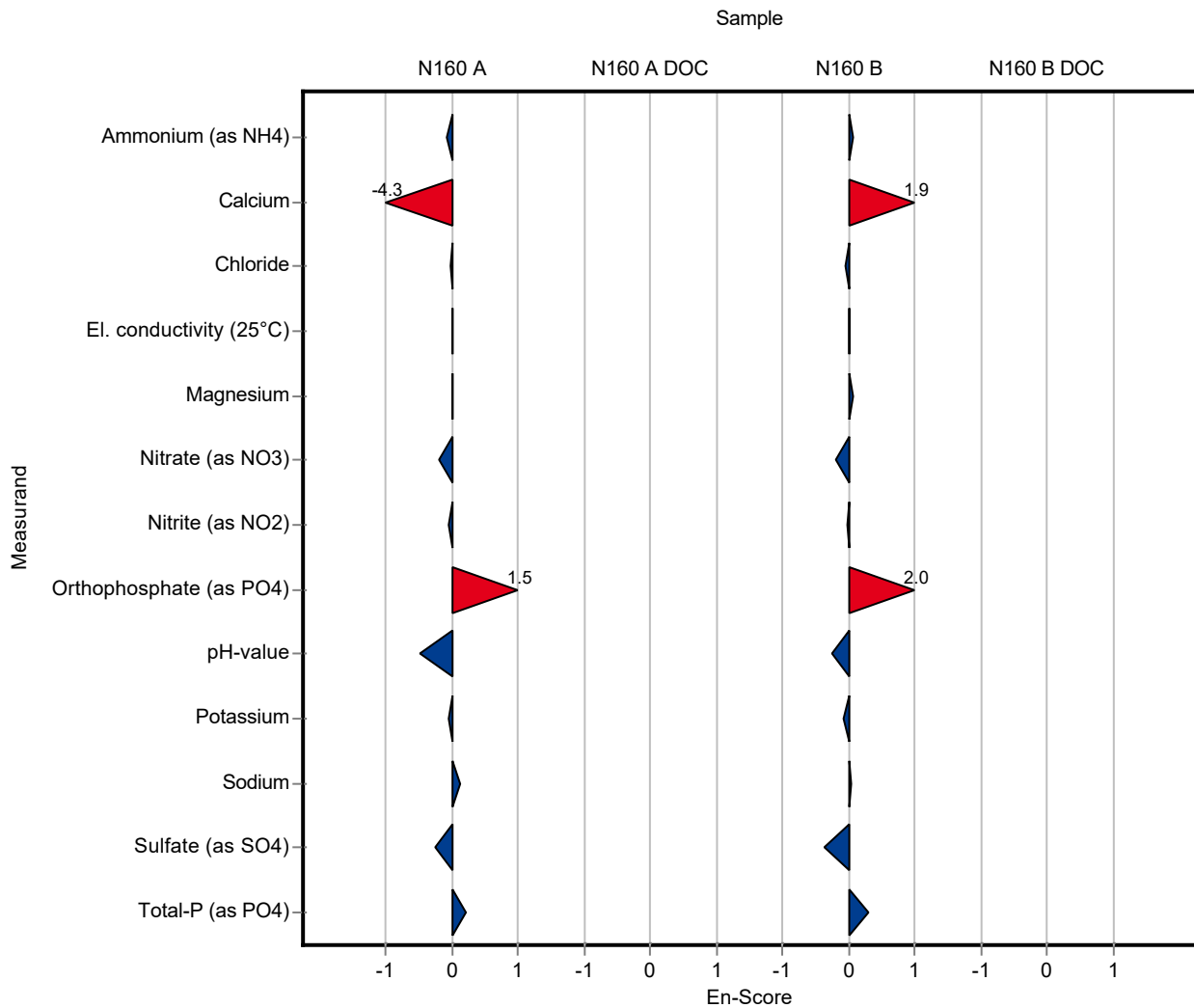
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0069

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	143 ± 22	1.9	233	1.86
Chloride	mg/l	22.3 ± 0.157	22.2 ± 0.9	0.891	99.6	-0.04
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 24	6.16	100	0.00
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.2 ± 2.2	0.598	102	0.06
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13 ± 1.1	0.672	96.7	-0.20
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.192 ± 0.02	0.0102	99.4	-0.03
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.15 ± 0.01	0.0174	138	1.98
pH-value	-	8.07 ± 0.019	7.97 ± 0.2	0.161	98.8	-0.25
Potassium	mg/l	2.18 ± 0.0235	2.11 ± 0.38	0.113	96.8	-0.09
Sodium	mg/l	14.3 ± 0.118	14.4 ± 1.7	0.485	101	0.04
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.2 ± 1.8	0.973	95.6	-0.36
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.971 ± 0.08	0.0694	105	0.28
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.9 ± 0.36	0.159	99.4	-0.28
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.085 ± 0.01	0.00952	107	0.59
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1051 ± 14.12	13.6	100	0.10
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.065 ± 0.0065	0.00987	105	0.34
pH-value	-	7.69 ± 0.0265	7.8 ± 0.01	0.154	101	0.74
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.196 ± 0.179	0.0891	101	0.09
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.56 ± 0.162	0.0704	101	0.60
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.287 ± 0.034	0.0341	101	0.07
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

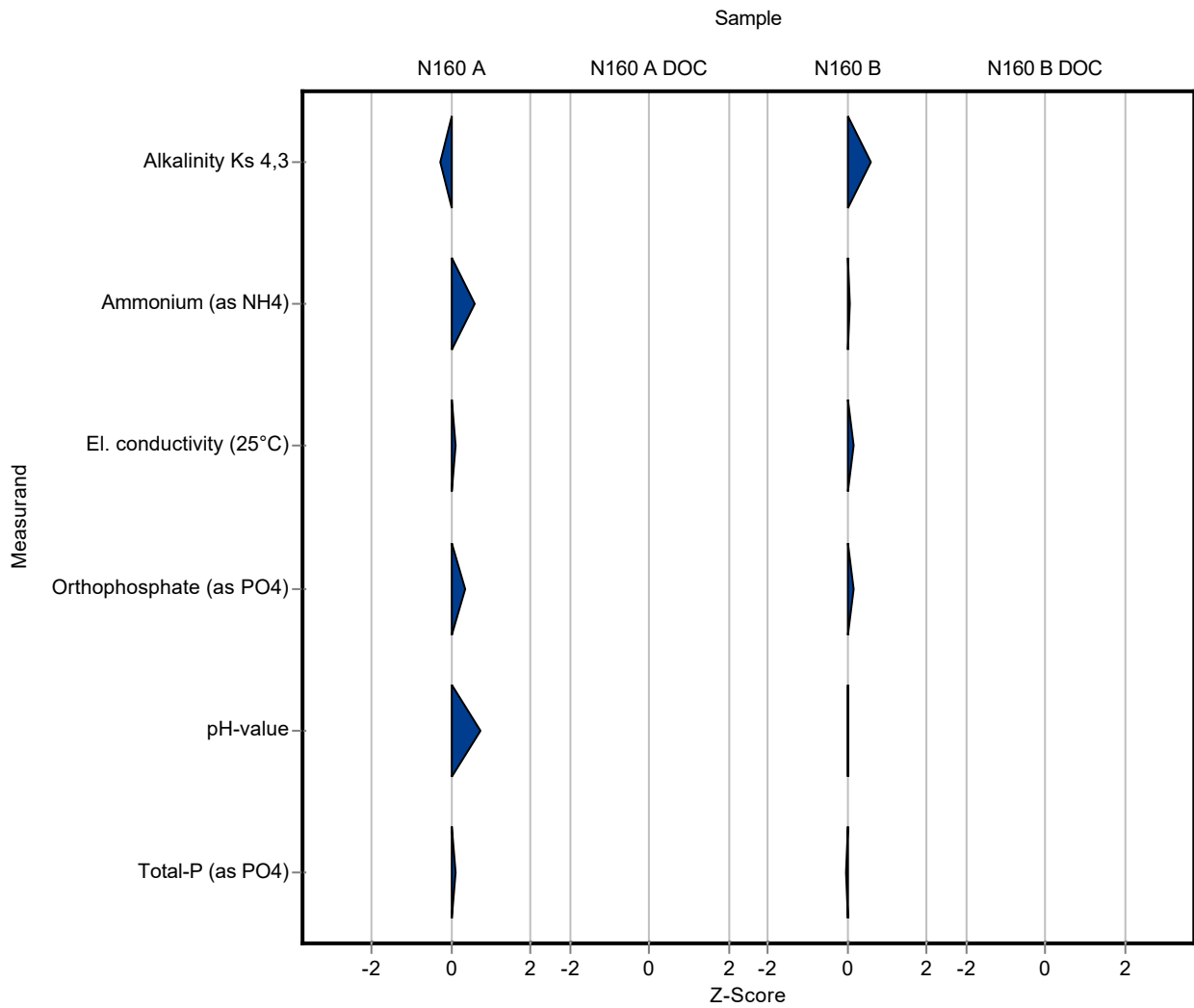
Summary of results Nutrients/Major Ions N160

Labcode: LC0070

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	475 ± 6.41	6.16	100	0.14
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.112 ± 0.0112	0.0174	103	0.17
pH-value	-	8.07 ± 0.019	8.07 ± 0.01	0.161	100	0.00
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.923 ± 0.138	0.0694	99.7	-0.04
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.9 ± 0.36	0.159	99.4	-0.06
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.085 ± 0.01	0.00952	107	0.28
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1051 ± 14.12	13.6	100	0.05
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.065 ± 0.0065	0.00987	105	0.25
pH-value	-	7.69 ± 0.0265	7.8 ± 0.01	0.154	101	3.42
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.196 ± 0.179	0.0891	101	0.02
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

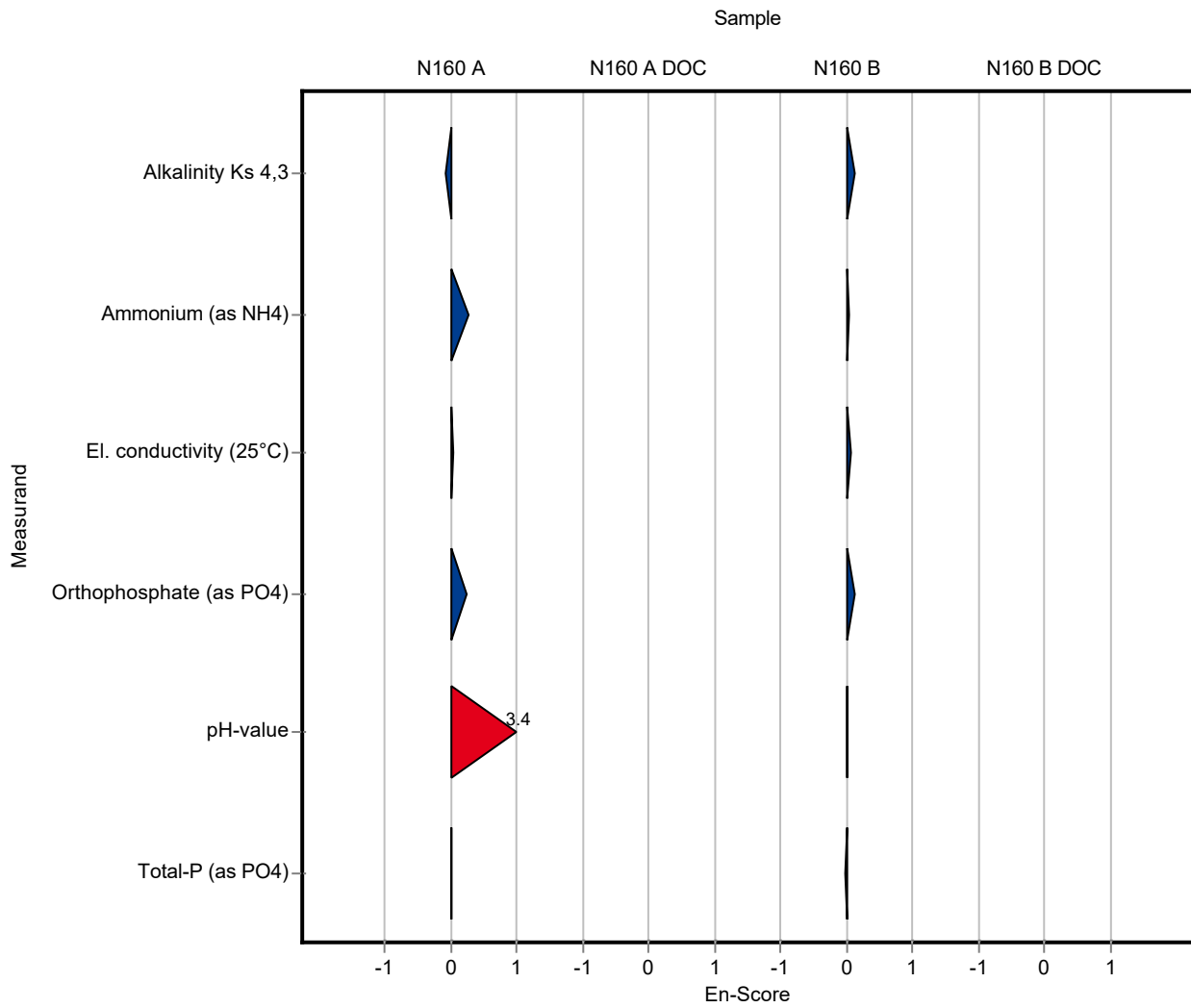
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.56 ± 0.162	0.0704	101	0.13
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.287 ± 0.034	0.0341	101	0.04
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	475 ± 6.41	6.16	100	0.07
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.112 ± 0.0112	0.0174	103	0.13
pH-value	-	8.07 ± 0.019	8.07 ± 0.01	0.161	100	0.00
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.923 ± 0.138	0.0694	99.7	-0.01
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	0.0735 ± 0.0094	0.00822	98.4	-0.15
Calcium	mg/l	143 ± 1.42	143.58 ± 4.97	4.42	101	0.23
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1059 ± 9.5	13.6	101	0.68
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.518 ± 1.51	1.41	101	0.19
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.75 ± 0.061	0.154	101	0.41
Potassium	mg/l	5.32 ± 0.0504	5.359 ± 0.24	0.277	101	0.13
Sodium	mg/l	31.6 ± 0.245	31.703 ± 1.36	1.07	100	0.08
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.19 ± 0.03	0.0891	100	0.02
Total hardness	mmol/l	5 ± 0.0376	5.05 ± 0.079	0.15	101	0.30
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.05 ± 0.23	0.208	98.6	-0.14

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	0.016 ± 0.0069	0.00164	107	0.67
Calcium	mg/l	61.3 ± 0.649	61.105 ± 2.26	1.9	99.7	-0.11

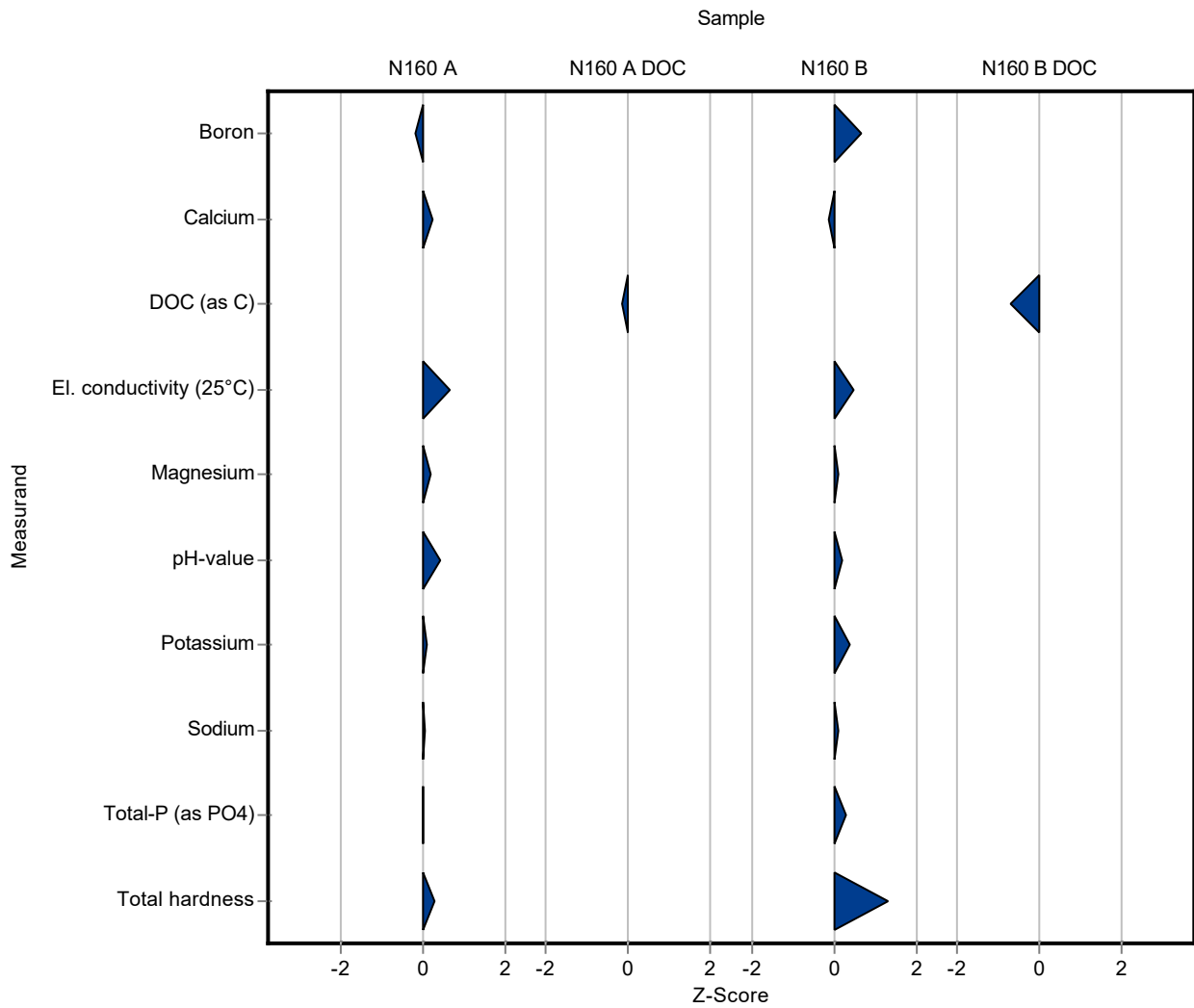
Summary of results Nutrients/Major Ions N160

Labcode: LC0071

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 2.95	6.16	101	0.47
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.005 ± 0.703	0.598	100	0.09
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.105 ± 0.061	0.161	100	0.22
Potassium	mg/l	2.18 ± 0.0235	2.225 ± 0.16	0.113	102	0.39
Sodium	mg/l	14.3 ± 0.118	14.306 ± 1.8	0.485	100	0.09
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.945 ± 0.018	0.0694	102	0.28
Total hardness	mmol/l	2.14 ± 0.0185	2.23 ± 0.019	0.0643	104	1.33
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.44 ± 0.05	0.263	92.9	-0.71



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	0.0735 ± 0.0094	0.00822	98.4	-0.06
Calcium	mg/l	143 ± 1.42	143.58 ± 4.97	4.42	101	0.10
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1059 ± 9.5	13.6	101	0.48
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.518 ± 1.51	1.41	101	0.09
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.75 ± 0.061	0.154	101	0.51
Potassium	mg/l	5.32 ± 0.0504	5.359 ± 0.24	0.277	101	0.07
Sodium	mg/l	31.6 ± 0.245	31.703 ± 1.36	1.07	100	0.03
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.19 ± 0.03	0.0891	100	0.03
Total hardness	mmol/l	5 ± 0.0376	5.05 ± 0.079	0.15	101	0.28
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.05 ± 0.23	0.208	98.6	-0.06

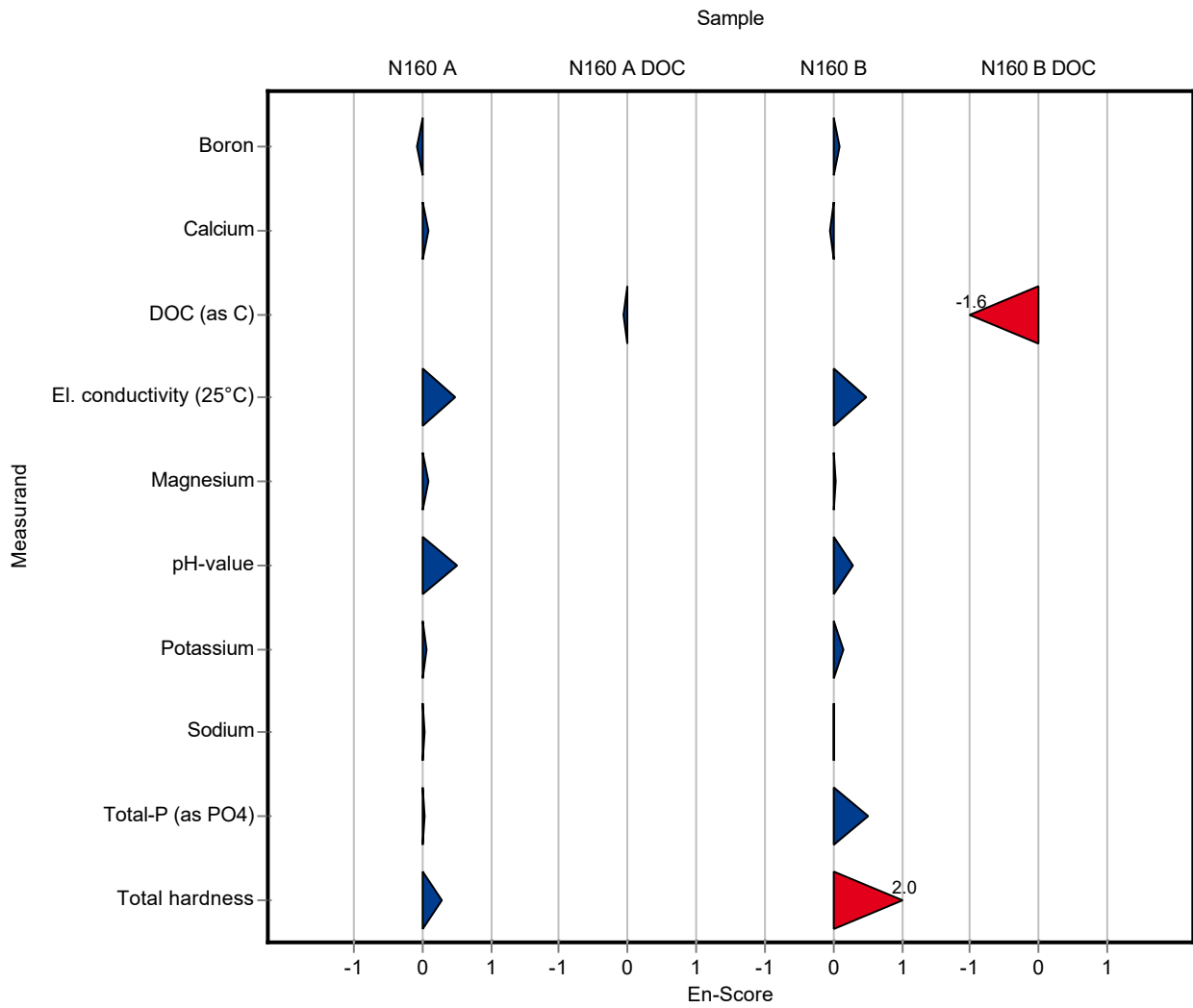
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	0.016 ± 0.0069	0.00164	107	0.08

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61.105 ± 2.26	1.9	99.7	-0.04
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 2.95	6.16	101	0.48
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.005 ± 0.703	0.598	100	0.04
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.105 ± 0.061	0.161	100	0.28
Potassium	mg/l	2.18 ± 0.0235	2.225 ± 0.16	0.113	102	0.14
Sodium	mg/l	14.3 ± 0.118	14.306 ± 1.8	0.485	100	0.01
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.945 ± 0.018	0.0694	102	0.50
Total hardness	mmol/l	2.14 ± 0.0185	2.23 ± 0.019	0.0643	104	2.02
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.44 ± 0.05	0.263	92.9	-1.59



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.99 ± 0.088	0.159	101	0.28
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0807 ± 0.0035	0.00952	102	0.14
Boron	mg/l	0.0747 ± 0.00166	0.0761 ± 0.0024	0.00822	102	0.17
Calcium	mg/l	143 ± 1.42	147 ± 4.26	4.42	103	1.00
Chloride	mg/l	72.1 ± 0.47	72.5 ± 6.74	2.89	100	0.12
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1070 ± 0.482	13.6	102	1.49
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	37 ± 0.178	1.41	105	1.24
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.6 ± 2.37	1.19	95	-0.99
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.289 ± 0.0162	0.0153	100	0.04
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0469 ± 0.00025	0.00987	76.1	-1.50
pH-value	-	7.69 ± 0.0265	7.74 ± 0.017	0.154	101	0.35
Potassium	mg/l	5.32 ± 0.0504	5.75 ± 0.351	0.277	108	1.54
Sodium	mg/l	31.6 ± 0.245	30 ± 1.98	1.07	94.9	-1.50
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	51.8 ± 5.34	1.78	96.2	-1.16
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.17 ± 0.0063	0.0891	98.5	-0.20
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.81 ± 0.0135	0.208	135	3.51

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.49 ± 0.038	0.0704	99.2	-0.40
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.29 ± 0.0125	0.0341	102	0.16
Boron	mg/l	0.0149 ± 0.000559	0.0142 ± 0.00044	0.00164	95.3	-0.43
Calcium	mg/l	61.3 ± 0.649	59.5 ± 1.73	1.9	97.1	-0.95

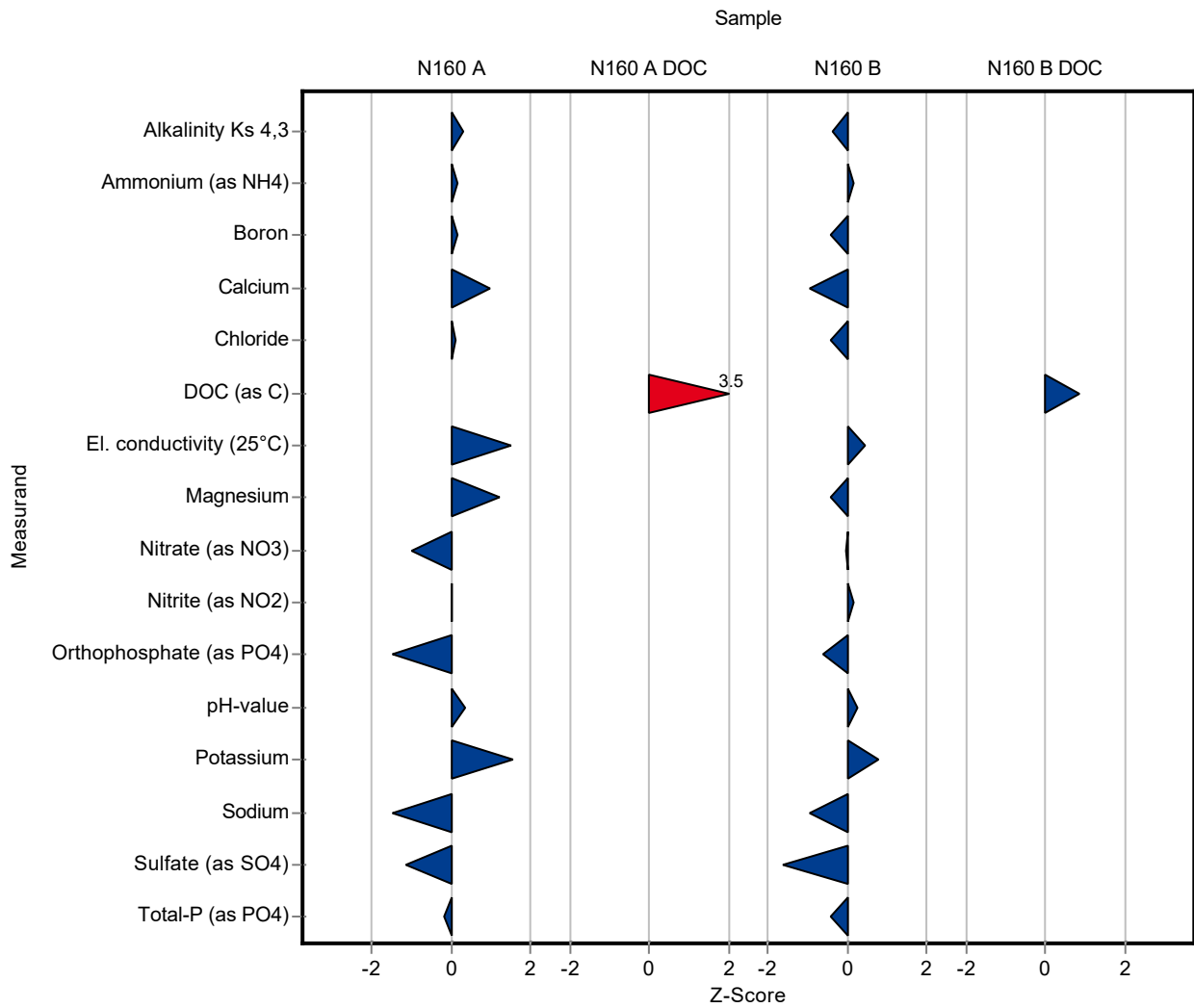
Summary of results Nutrients/Major Ions N160

Labcode: LC0072

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.9 ± 2.04	0.891	98.3	-0.43
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 0.215	6.16	101	0.47
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.7 ± 0.0706	0.598	98.3	-0.42
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.4 ± 1.41	0.672	99.7	-0.06
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.195 ± 0.0109	0.0102	101	0.18
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.0981 ± 0.00052	0.0174	90	-0.62
pH-value	-	8.07 ± 0.019	8.11 ± 0.018	0.161	100	0.25
Potassium	mg/l	2.18 ± 0.0235	2.27 ± 0.138	0.113	104	0.79
Sodium	mg/l	14.3 ± 0.118	13.8 ± 0.911	0.485	96.8	-0.95
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	27.9 ± 2.87	0.973	94.6	-1.63
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.897 ± 0.0048	0.0694	96.9	-0.41
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.85 ± 0.0137	0.263	109	0.85



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.99 ± 0.088	0.159	101	0.25
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0807 ± 0.0035	0.00952	102	0.18
Boron	mg/l	0.0747 ± 0.00166	0.0761 ± 0.0024	0.00822	102	0.27
Calcium	mg/l	143 ± 1.42	147 ± 4.26	4.42	103	0.51
Chloride	mg/l	72.1 ± 0.47	72.5 ± 6.74	2.89	100	0.03
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1070 ± 0.482	13.6	102	5.46
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	37 ± 0.178	1.41	105	3.89
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.6 ± 2.37	1.19	95	-0.25
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.289 ± 0.0162	0.0153	100	0.02
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0469 ± 0.00025	0.00987	76.1	-4.50
pH-value	-	7.69 ± 0.0265	7.74 ± 0.017	0.154	101	1.25
Potassium	mg/l	5.32 ± 0.0504	5.75 ± 0.351	0.277	108	0.61
Sodium	mg/l	31.6 ± 0.245	30 ± 1.98	1.07	94.9	-0.41
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	51.8 ± 5.34	1.78	96.2	-0.19
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.17 ± 0.0063	0.0891	98.5	-0.80
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.81 ± 0.0135	0.208	135	11.30

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.49 ± 0.038	0.0704	99.2	-0.36
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.29 ± 0.0125	0.0341	102	0.21
Boron	mg/l	0.0149 ± 0.000559	0.0142 ± 0.00044	0.00164	95.3	-0.67

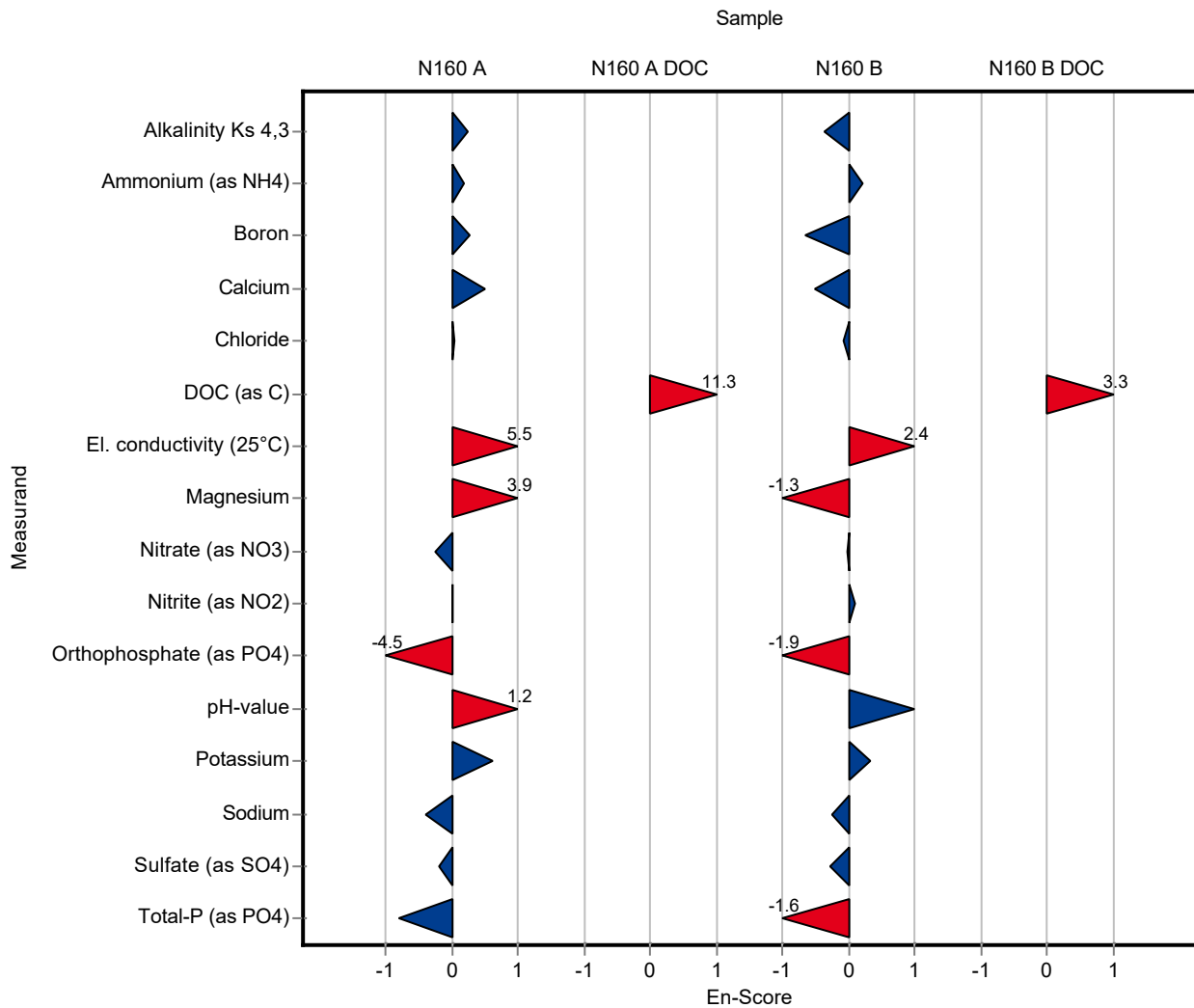
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0072

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	59.5 ± 1.73	1.9	97.1	-0.51
Chloride	mg/l	22.3 ± 0.157	21.9 ± 2.04	0.891	98.3	-0.09
El. conductivity (25°C)	µS/cm	474 ± 1.13	477 ± 0.215	6.16	101	2.37
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.7 ± 0.0706	0.598	98.3	-1.28
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.4 ± 1.41	0.672	99.7	-0.01
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.195 ± 0.0109	0.0102	101	0.08
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.0981 ± 0.00052	0.0174	90	-1.94
pH-value	-	8.07 ± 0.019	8.11 ± 0.018	0.161	100	0.99
Potassium	mg/l	2.18 ± 0.0235	2.27 ± 0.138	0.113	104	0.32
Sodium	mg/l	14.3 ± 0.118	13.8 ± 0.911	0.485	96.8	-0.25
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	27.9 ± 2.87	0.973	94.6	-0.28
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.897 ± 0.0048	0.0694	96.9	-1.61
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.85 ± 0.0137	0.263	109	3.30



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.99 ± 0.209	0.159	101	0.28
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0916 ± 0.0012	0.00952	115	1.29
Boron	mg/l	0.0747 ± 0.00166	0.0772 ± 0.000608	0.00822	103	0.30
Calcium	mg/l	143 ± 1.42	147 ± 1.34	4.42	103	1.00
Chloride	mg/l	72.1 ± 0.47	75.1 ± 1.31	2.89	104	1.02
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1045 ± 0.283	13.6	99.6	-0.34
Hydrogen carbonate	mg/l	483 ± 1.82	484 ± 9.69	9.66	100	0.11
Magnesium	mg/l	35.3 ± 0.274	33.8 ± 0.18	1.41	95.9	-1.03
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.3 ± 0.444	1.19	102	0.44
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.27 ± 0.00692	0.0153	93.6	-1.20
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0678 ± 0.0017	0.00987	110	0.62
pH-value	-	7.69 ± 0.0265	7.73 ± 0.0773	0.154	101	0.28
Potassium	mg/l	5.32 ± 0.0504	5.44 ± 0.247	0.277	102	0.42
Sodium	mg/l	31.6 ± 0.245	32.2 ± 0.35	1.07	102	0.55
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.1 ± 0.788	1.78	102	0.70
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.13 ± 0.0277	0.0891	95.1	-0.65
Total hardness	mmol/l	5 ± 0.0376	5.06 ± 0.0342	0.15	101	0.37
Total nitrogen	mg/l	5.67 ± 0.147	6.44 ± 0.0753	0.47	114	1.65

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.88 ± 0.037	0.208	90.4	-0.96

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.52 ± 0.119	0.0704	100	0.03
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.291 ± 0.0057	0.0341	102	0.19
Boron	mg/l	0.0149 ± 0.000559	<0.02 (LOQ) ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	65 ± 0.664	1.9	106	1.94

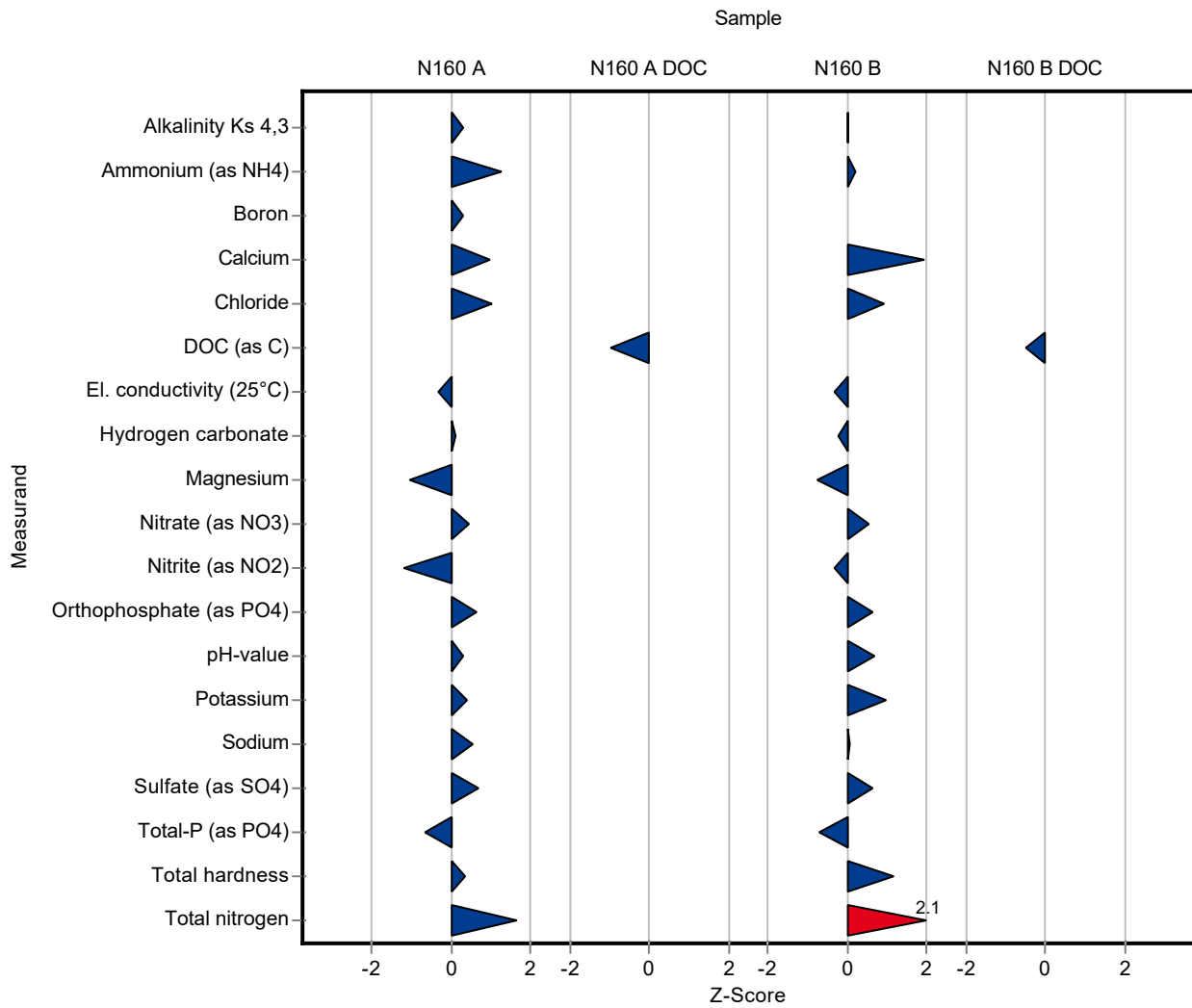
Summary of results Nutrients/Major Ions N160

Labcode: LC0073

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	23.1 ± 0.652	0.891	104	0.92
El. conductivity (25°C)	µS/cm	474 ± 1.13	472 ± 0.262	6.16	99.5	-0.35
Hydrogen carbonate	mg/l	213 ± 1.3	212 ± 4.23	4.26	99.5	-0.24
Magnesium	mg/l	14.9 ± 0.135	14.5 ± 0.204	0.598	97	-0.75
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.8 ± 0.508	0.672	103	0.54
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.19 ± 0.00152	0.0102	98.4	-0.31
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.12 ± 0.00178	0.0174	110	0.63
pH-value	-	8.07 ± 0.019	8.18 ± 0.0818	0.161	101	0.68
Potassium	mg/l	2.18 ± 0.0235	2.29 ± 0.0306	0.113	105	0.97
Sodium	mg/l	14.3 ± 0.118	14.3 ± 0.295	0.485	100	0.08
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.1 ± 0.397	0.973	102	0.63
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.876 ± 0.0276	0.0694	94.7	-0.71
Total hardness	mmol/l	2.14 ± 0.0185	2.22 ± 0.0185	0.0643	104	1.17
Total nitrogen	mg/l	3.42 ± 0.0995	4.02 ± 0.0755	0.284	118	2.12

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.49 ± 0.0365	0.263	94.8	-0.52



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.99 ± 0.209	0.159	101	0.11
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0916 ± 0.0012	0.00952	115	3.42
Boron	mg/l	0.0747 ± 0.00166	0.0772 ± 0.000608	0.00822	103	1.20
Calcium	mg/l	143 ± 1.42	147 ± 1.34	4.42	103	1.46
Chloride	mg/l	72.1 ± 0.47	75.1 ± 1.31	2.89	104	1.11
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1045 ± 0.283	13.6	99.6	-1.28
Hydrogen carbonate	mg/l	483 ± 1.82	484 ± 9.69	9.66	100	0.05
Magnesium	mg/l	35.3 ± 0.274	33.8 ± 0.18	1.41	95.9	-3.22
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	24.3 ± 0.444	1.19	102	0.56
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.27 ± 0.00692	0.0153	93.6	-1.29
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0678 ± 0.0017	0.00987	110	1.31
pH-value	-	7.69 ± 0.0265	7.73 ± 0.0773	0.154	101	0.28
Potassium	mg/l	5.32 ± 0.0504	5.44 ± 0.247	0.277	102	0.23
Sodium	mg/l	31.6 ± 0.245	32.2 ± 0.35	1.07	102	0.79
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.1 ± 0.788	1.78	102	0.76
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.13 ± 0.0277	0.0891	95.1	-0.99
Total hardness	mmol/l	5 ± 0.0376	5.06 ± 0.0342	0.15	101	0.71
Total nitrogen	mg/l	5.67 ± 0.147	6.44 ± 0.0753	0.47	114	3.68

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.88 ± 0.037	0.208	90.4	-2.12

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.52 ± 0.119	0.0704	100	0.01
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.291 ± 0.0057	0.0341	102	0.52
Boron	mg/l	0.0149 ± 0.000559	<0.02 (LOQ) ± -	0.00164	-	-

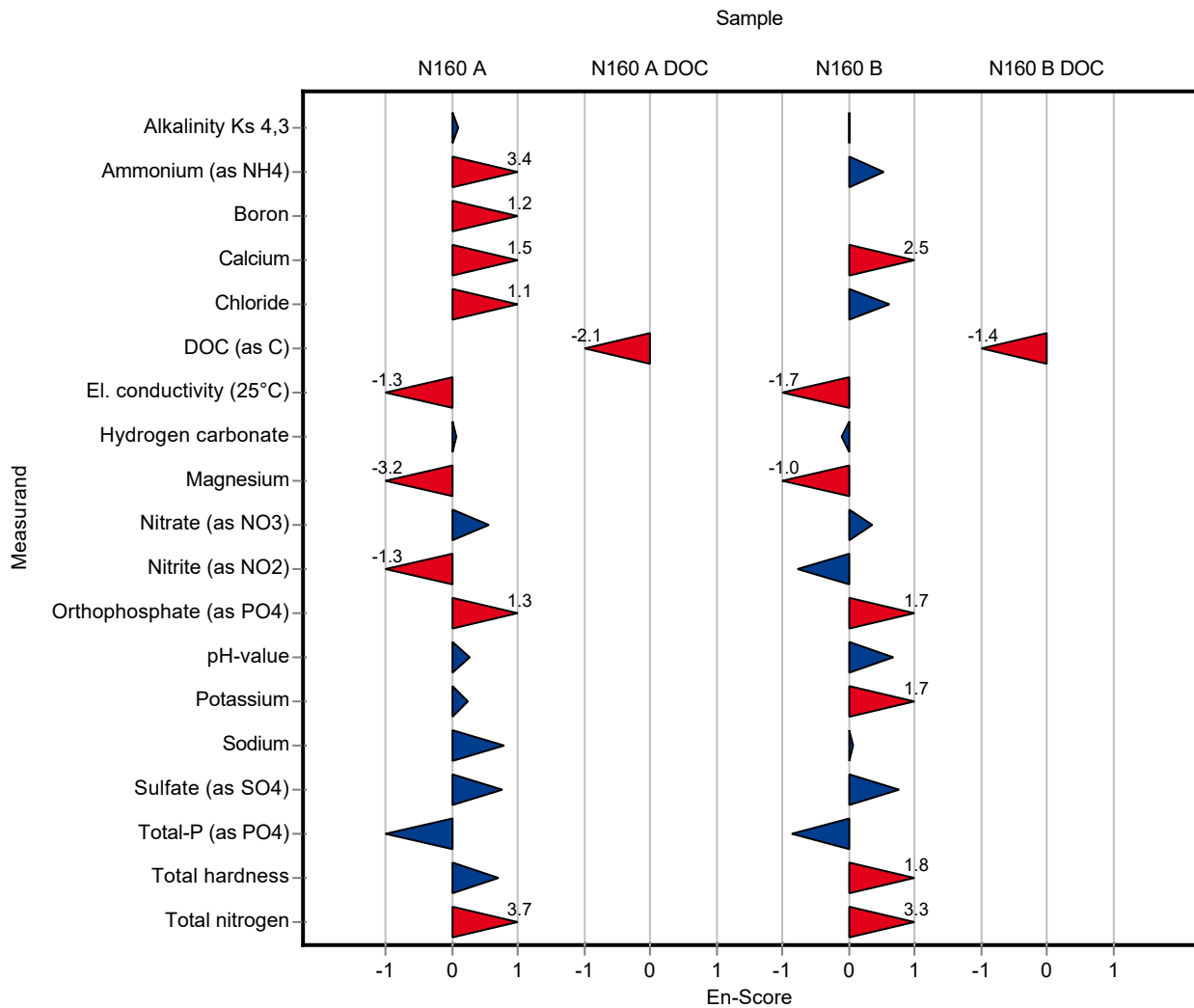
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0073

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	65 ± 0.664	1.9	106	2.50
Chloride	mg/l	22.3 ± 0.157	23.1 ± 0.652	0.891	104	0.63
El. conductivity (25°C)	µS/cm	474 ± 1.13	472 ± 0.262	6.16	99.5	-1.71
Hydrogen carbonate	mg/l	213 ± 1.3	212 ± 4.23	4.26	99.5	-0.12
Magnesium	mg/l	14.9 ± 0.135	14.5 ± 0.204	0.598	97	-1.05
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.8 ± 0.508	0.672	103	0.35
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.19 ± 0.00152	0.0102	98.4	-0.78
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.12 ± 0.00178	0.0174	110	1.69
pH-value	-	8.07 ± 0.019	8.18 ± 0.0818	0.161	101	0.67
Potassium	mg/l	2.18 ± 0.0235	2.29 ± 0.0306	0.113	105	1.67
Sodium	mg/l	14.3 ± 0.118	14.3 ± 0.295	0.485	100	0.06
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	30.1 ± 0.397	0.973	102	0.75
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.876 ± 0.0276	0.0694	94.7	-0.86
Total hardness	mmol/l	2.14 ± 0.0185	2.22 ± 0.0185	0.0643	104	1.82
Total nitrogen	mg/l	3.42 ± 0.0995	4.02 ± 0.0755	0.284	118	3.32

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.49 ± 0.0365	0.263	94.8	-1.43



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.066 ± 0.003	0.00987	107	0.44
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.1975 ± 0.068	0.0891	101	0.11
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

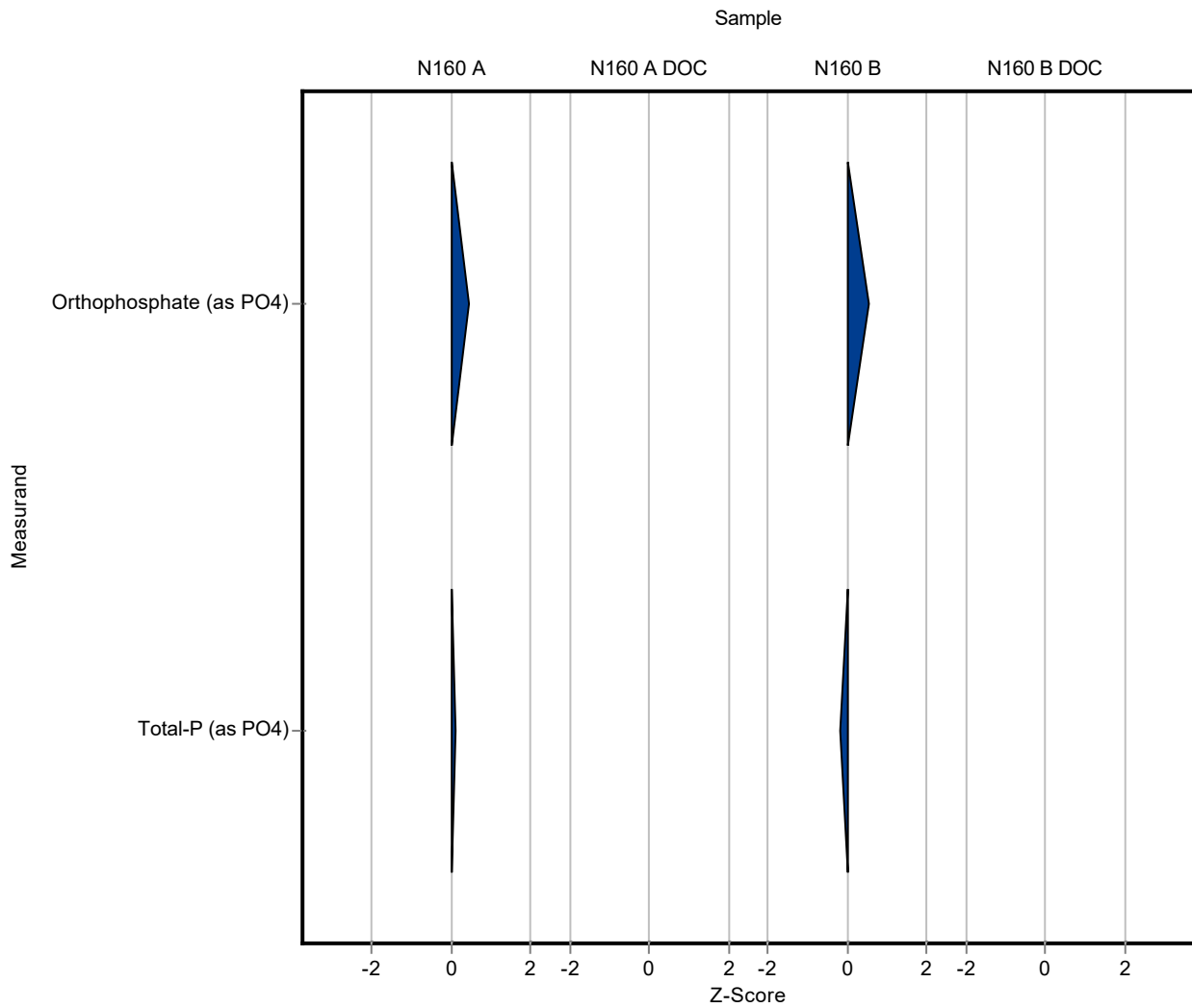
Summary of results Nutrients/Major Ions N160

Labcode: LC0074

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.1185 ± 0.005	0.0174	109	0.55
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.91366 ± 0.052	0.0694	98.7	-0.17
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.066 ± 0.003	0.00987	107	0.64
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.1975 ± 0.068	0.0891	101	0.07
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

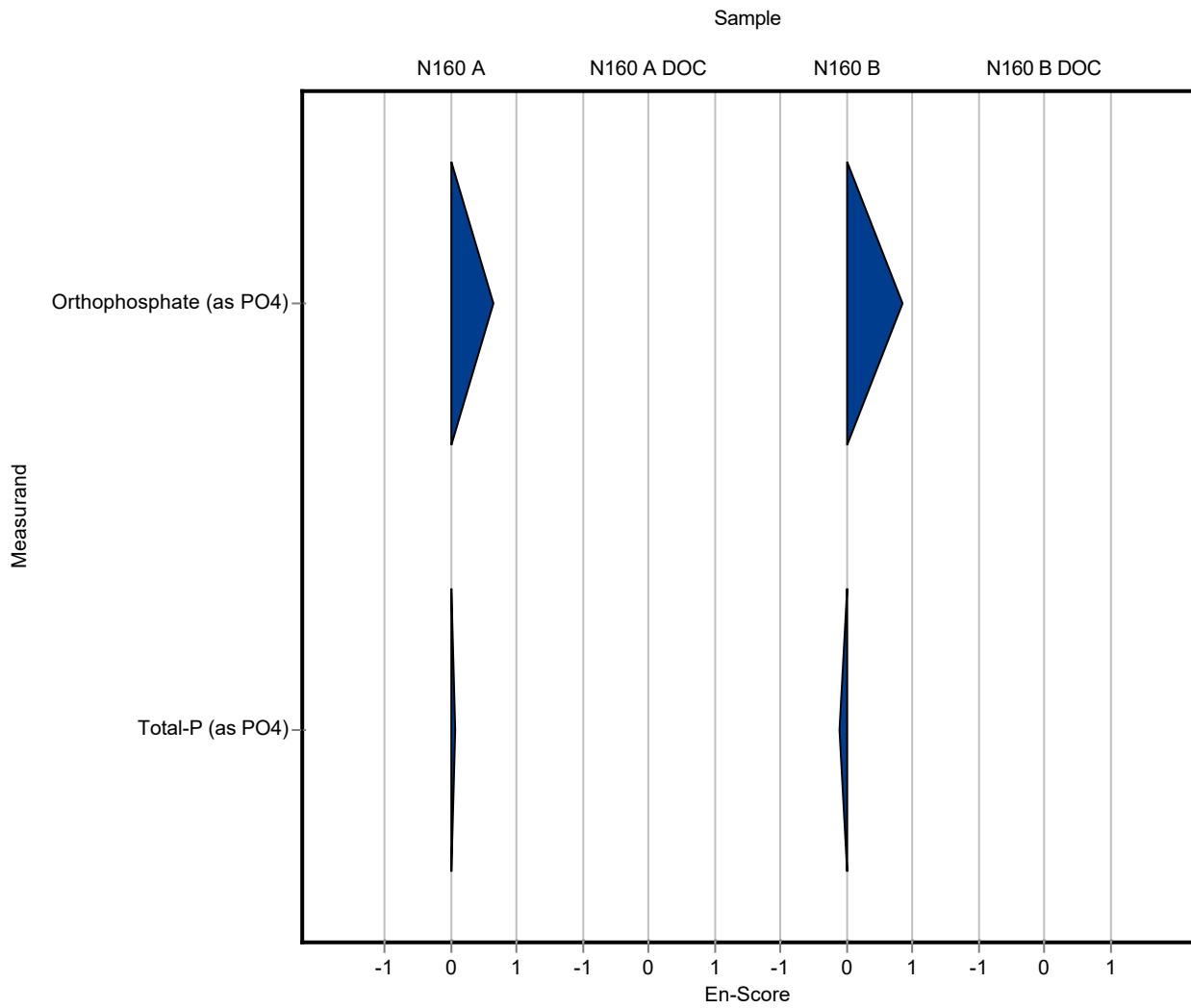
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.1185 ± 0.005	0.0174	109	0.84
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.91366 ± 0.052	0.0694	98.7	-0.11
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8 ± 0.099	0.159	101	0.34
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0765 ± 0.014	0.00952	96.4	-0.30
Boron	mg/l	0.0747 ± 0.00166	0.0833 ± 0.011	0.00822	111	1.04
Calcium	mg/l	143 ± 1.42	146.87 ± 9.55	4.42	103	0.97
Chloride	mg/l	72.1 ± 0.47	71.12 ± 7.82	2.89	98.6	-0.36
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1047 ± 104.7	13.6	99.7	-0.20
Hydrogen carbonate	mg/l	483 ± 1.82	488.13 ± 21.4	9.66	101	0.54
Magnesium	mg/l	35.3 ± 0.274	35.83 ± 2.62	1.41	102	0.41
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.92 ± 3.21	1.19	96.4	-0.72
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.2985 ± 0.057	0.0153	104	0.66
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<0.2 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.835 ± 0.08	0.154	102	0.97
Potassium	mg/l	5.32 ± 0.0504	5.4 ± 0.45	0.277	101	0.28
Sodium	mg/l	31.6 ± 0.245	31.6 ± 4.11	1.07	100	-0.01
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.47 ± 5.88	1.78	99.3	-0.22
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.568 ± 0.15	0.0891	132	4.27
Total hardness	mmol/l	5 ± 0.0376	5.14 ± 0.35	0.15	103	0.90
Total nitrogen	mg/l	5.67 ± 0.147	7.911 ± 1	0.47	140	4.78

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.11 ± 0.42	0.208	101	0.14

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.529 ± 0.044	0.0704	100	0.16
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.269 ± 0.051	0.0341	94.5	-0.45
Boron	mg/l	0.0149 ± 0.000559	0.0177 ± 0.0024	0.00164	119	1.71
Calcium	mg/l	61.3 ± 0.649	64.24 ± 4.18	1.9	105	1.54

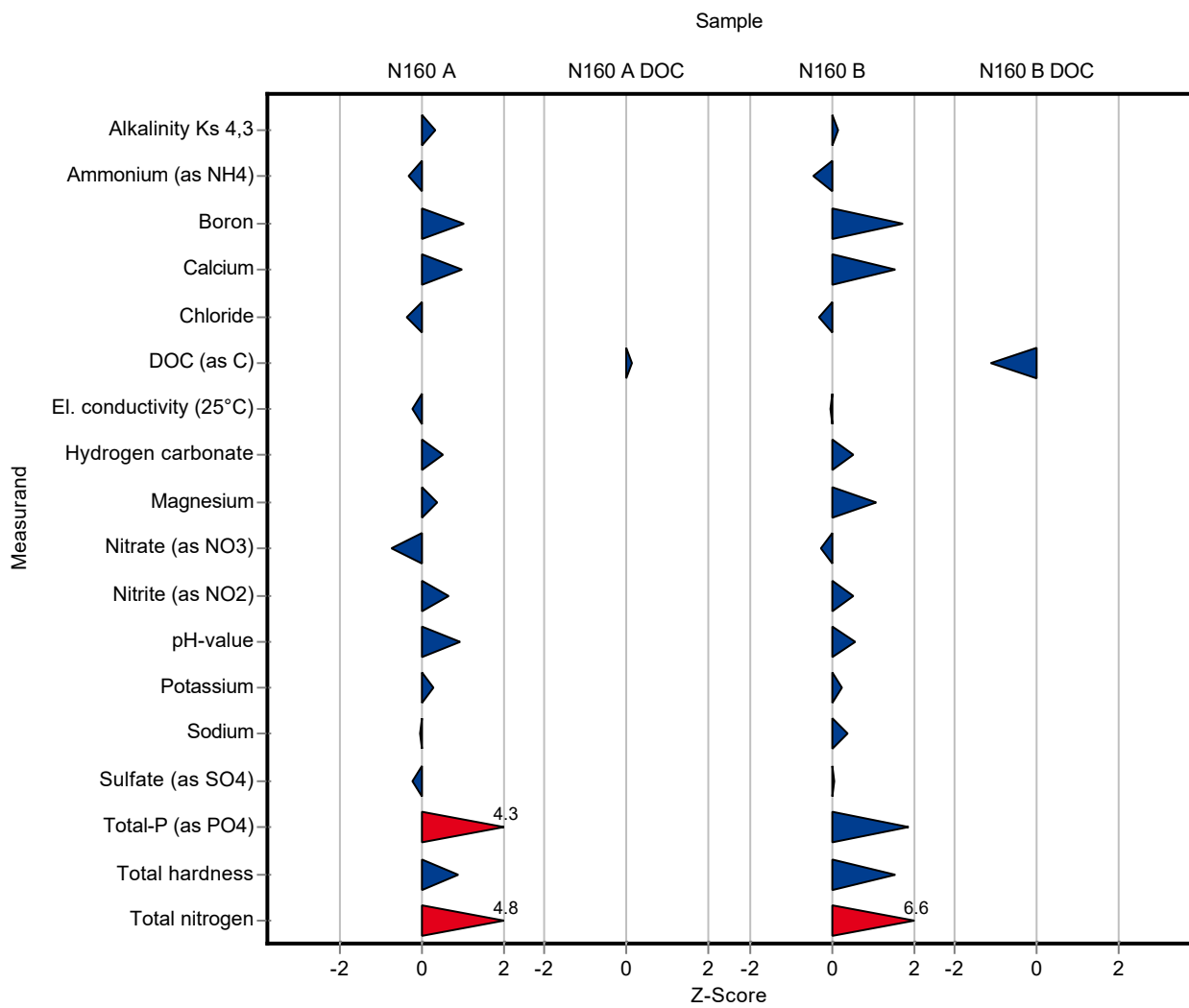
Summary of results Nutrients/Major Ions N160

Labcode: LC0075

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	22 ± 2.42	0.891	98.7	-0.31
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 47.4	6.16	100	-0.02
Hydrogen carbonate	mg/l	213 ± 1.3	215.34 ± 6.45	4.26	101	0.54
Magnesium	mg/l	14.9 ± 0.135	15.6 ± 1.14	0.598	104	1.09
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.27 ± 1.86	0.672	98.8	-0.25
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.1985 ± 0.032	0.0102	103	0.52
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	<0.2 (LOQ) ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.165 ± 0.08	0.161	101	0.59
Potassium	mg/l	2.18 ± 0.0235	2.21 ± 0.18	0.113	101	0.26
Sodium	mg/l	14.3 ± 0.118	14.45 ± 1.87	0.485	101	0.39
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.52 ± 3.24	0.973	100	0.04
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.056 ± 0.101	0.0694	114	1.88
Total hardness	mmol/l	2.14 ± 0.0185	2.244 ± 0.15	0.0643	105	1.54
Total nitrogen	mg/l	3.42 ± 0.0995	5.296 ± 0.67	0.284	155	6.61

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.33 ± 0.46	0.263	88.7	-1.13



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8 ± 0.099	0.159	101	0.27
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.0765 ± 0.014	0.00952	96.4	-0.10
Boron	mg/l	0.0747 ± 0.00166	0.0833 ± 0.011	0.00822	111	0.39
Calcium	mg/l	143 ± 1.42	146.87 ± 9.55	4.42	103	0.22
Chloride	mg/l	72.1 ± 0.47	71.12 ± 7.82	2.89	98.6	-0.07
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1047 ± 104.7	13.6	99.7	-0.01
Hydrogen carbonate	mg/l	483 ± 1.82	488.13 ± 21.4	9.66	101	0.12
Magnesium	mg/l	35.3 ± 0.274	35.83 ± 2.62	1.41	102	0.11
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.92 ± 3.21	1.19	96.4	-0.13
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.2985 ± 0.057	0.0153	104	0.09
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	<0.2 (LOQ) ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.835 ± 0.08	0.154	102	0.92
Potassium	mg/l	5.32 ± 0.0504	5.4 ± 0.45	0.277	101	0.08
Sodium	mg/l	31.6 ± 0.245	31.6 ± 4.11	1.07	100	0.00
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.47 ± 5.88	1.78	99.3	-0.03
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.568 ± 0.15	0.0891	132	1.26
Total hardness	mmol/l	5 ± 0.0376	5.14 ± 0.35	0.15	103	0.19
Total nitrogen	mg/l	5.67 ± 0.147	7.911 ± 1	0.47	140	1.12

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	2.11 ± 0.42	0.208	101	0.04

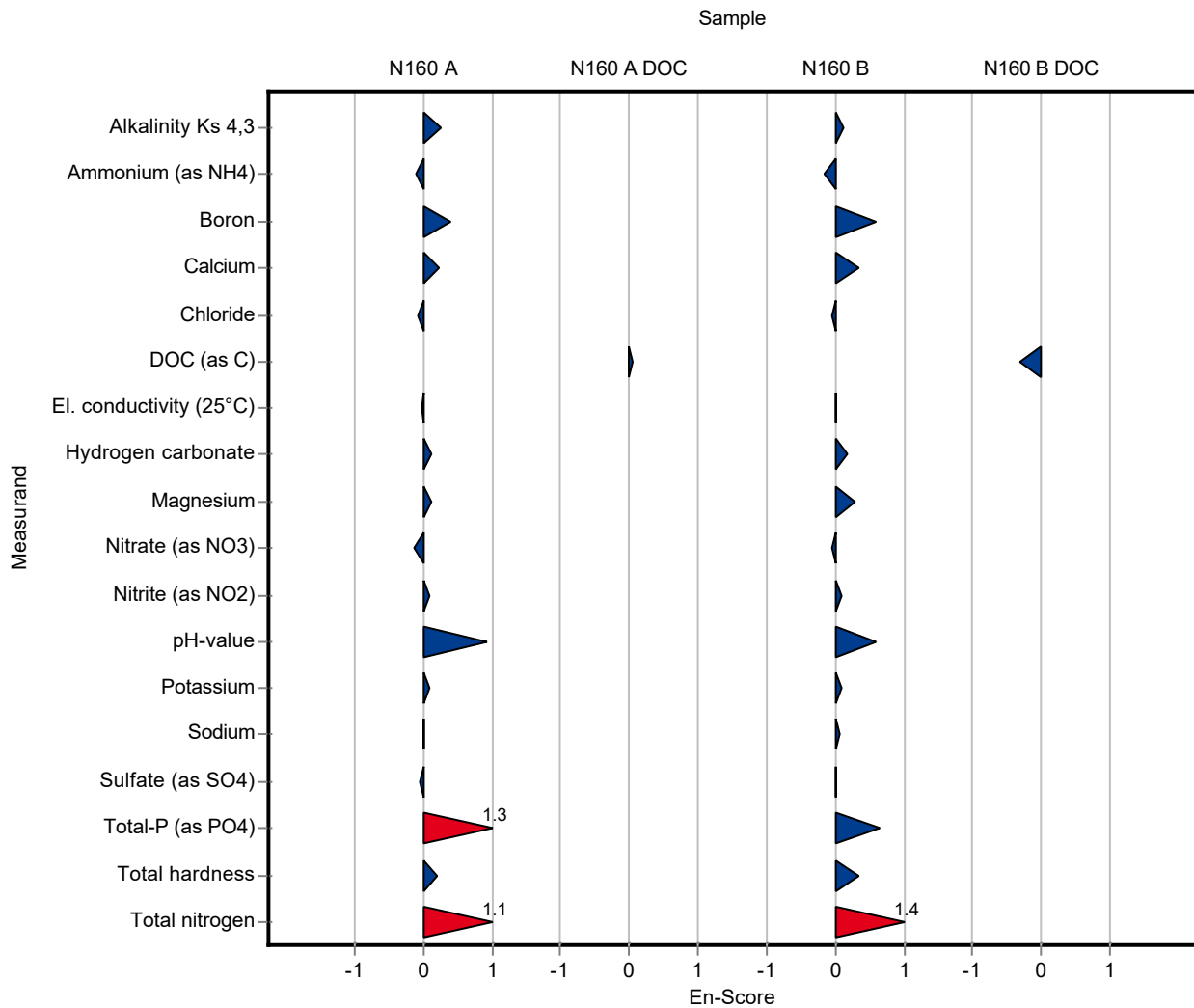
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.529 ± 0.044	0.0704	100	0.13
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.269 ± 0.051	0.0341	94.5	-0.15
Boron	mg/l	0.0149 ± 0.000559	0.0177 ± 0.0024	0.00164	119	0.58

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	64.24 ± 4.18	1.9	105	0.35
Chloride	mg/l	22.3 ± 0.157	22 ± 2.42	0.891	98.7	-0.06
El. conductivity (25°C)	µS/cm	474 ± 1.13	474 ± 47.4	6.16	100	0.00
Hydrogen carbonate	mg/l	213 ± 1.3	215.34 ± 6.45	4.26	101	0.18
Magnesium	mg/l	14.9 ± 0.135	15.6 ± 1.14	0.598	104	0.28
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.27 ± 1.86	0.672	98.8	-0.05
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.1985 ± 0.032	0.0102	103	0.08
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	<0.2 (LOQ) ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.165 ± 0.08	0.161	101	0.59
Potassium	mg/l	2.18 ± 0.0235	2.21 ± 0.18	0.113	101	0.08
Sodium	mg/l	14.3 ± 0.118	14.45 ± 1.87	0.485	101	0.05
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.52 ± 3.24	0.973	100	0.01
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.056 ± 0.101	0.0694	114	0.64
Total hardness	mmol/l	2.14 ± 0.0185	2.244 ± 0.15	0.0643	105	0.33
Total nitrogen	mg/l	3.42 ± 0.0995	5.296 ± 0.67	0.284	155	1.40

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.33 ± 0.46	0.263	88.7	-0.32



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8 ± 0.8	0.159	101	0.34
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.07 ± 0.01	0.00952	88.2	-0.98
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	145.364 ± 14.54	4.42	102	0.63
Chloride	mg/l	72.1 ± 0.47	70.52 ± 17.63	2.89	97.7	-0.56
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1046.7 ± 100.67	13.6	99.7	-0.22
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	36.005 ± 0.36	1.41	102	0.53
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.37 ± 5.84	1.19	98.3	-0.35
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.3089 ± 0.031	0.0153	107	1.34
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.7 ± 0.15	0.154	100	0.09
Potassium	mg/l	5.32 ± 0.0504	5.338 ± 0.54	0.277	100	0.05
Sodium	mg/l	31.6 ± 0.245	32.086 ± 0.321	1.07	101	0.44
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.3 ± 13.33	1.78	99	-0.32
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.205 ± 0.301	0.0891	101	0.19
Total hardness	mmol/l	5 ± 0.0376	5.1 ± 1	0.15	102	0.64
Total nitrogen	mg/l	5.67 ± 0.147	5.3 ± 1.1	0.47	93.6	-0.78

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.55 ± 0.355	0.0704	101	0.46
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.26 ± 0.065	0.0341	91.4	-0.72
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	59.486 ± 0.6	1.9	97	-0.96

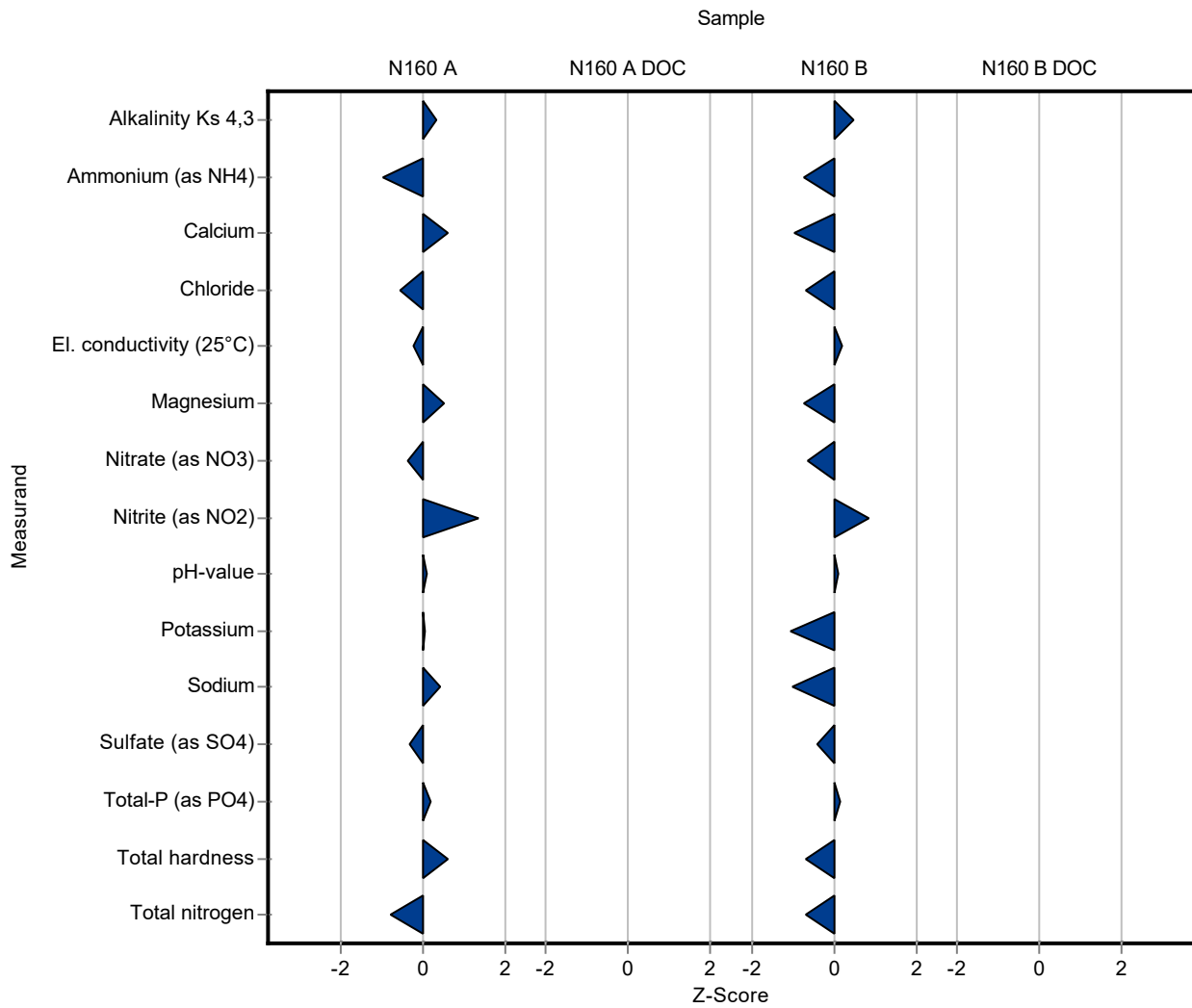
Summary of results Nutrients/Major Ions N160

Labcode: LC0076

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	21.68 ± 5.42	0.891	97.3	-0.67
El. conductivity (25°C)	µS/cm	474 ± 1.13	475.35 ± 47.54	6.16	100	0.20
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.513 ± 0.15	0.598	97.1	-0.73
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.02 ± 3.3	0.672	96.9	-0.62
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.202 ± 0.02	0.0102	105	0.86
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.09 ± 0.15	0.161	100	0.13
Potassium	mg/l	2.18 ± 0.0235	2.062 ± 0.21	0.113	94.6	-1.04
Sodium	mg/l	14.3 ± 0.118	13.769 ± 0.14	0.485	96.5	-1.02
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.09 ± 7.27	0.973	98.7	-0.41
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.935 ± 0.24	0.0694	101	0.14
Total hardness	mmol/l	2.14 ± 0.0185	2.1 ± 0.4	0.0643	97.9	-0.69
Total nitrogen	mg/l	3.42 ± 0.0995	3.23 ± 0.7	0.284	94.5	-0.67

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	8 ± 0.8	0.159	101	0.03
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.07 ± 0.01	0.00952	88.2	-0.46
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	145.364 ± 14.54	4.42	102	0.10
Chloride	mg/l	72.1 ± 0.47	70.52 ± 17.63	2.89	97.7	-0.05
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1046.7 ± 100.67	13.6	99.7	-0.01
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	36.005 ± 0.36	1.41	102	0.97
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.37 ± 5.84	1.19	98.3	-0.04
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.3089 ± 0.031	0.0153	107	0.33
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.7 ± 0.15	0.154	100	0.05
Potassium	mg/l	5.32 ± 0.0504	5.338 ± 0.54	0.277	100	0.01
Sodium	mg/l	31.6 ± 0.245	32.086 ± 0.321	1.07	101	0.69
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.3 ± 13.33	1.78	99	-0.02
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.205 ± 0.301	0.0891	101	0.03
Total hardness	mmol/l	5 ± 0.0376	5.1 ± 1	0.15	102	0.05
Total nitrogen	mg/l	5.67 ± 0.147	5.3 ± 1.1	0.47	93.6	-0.17

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

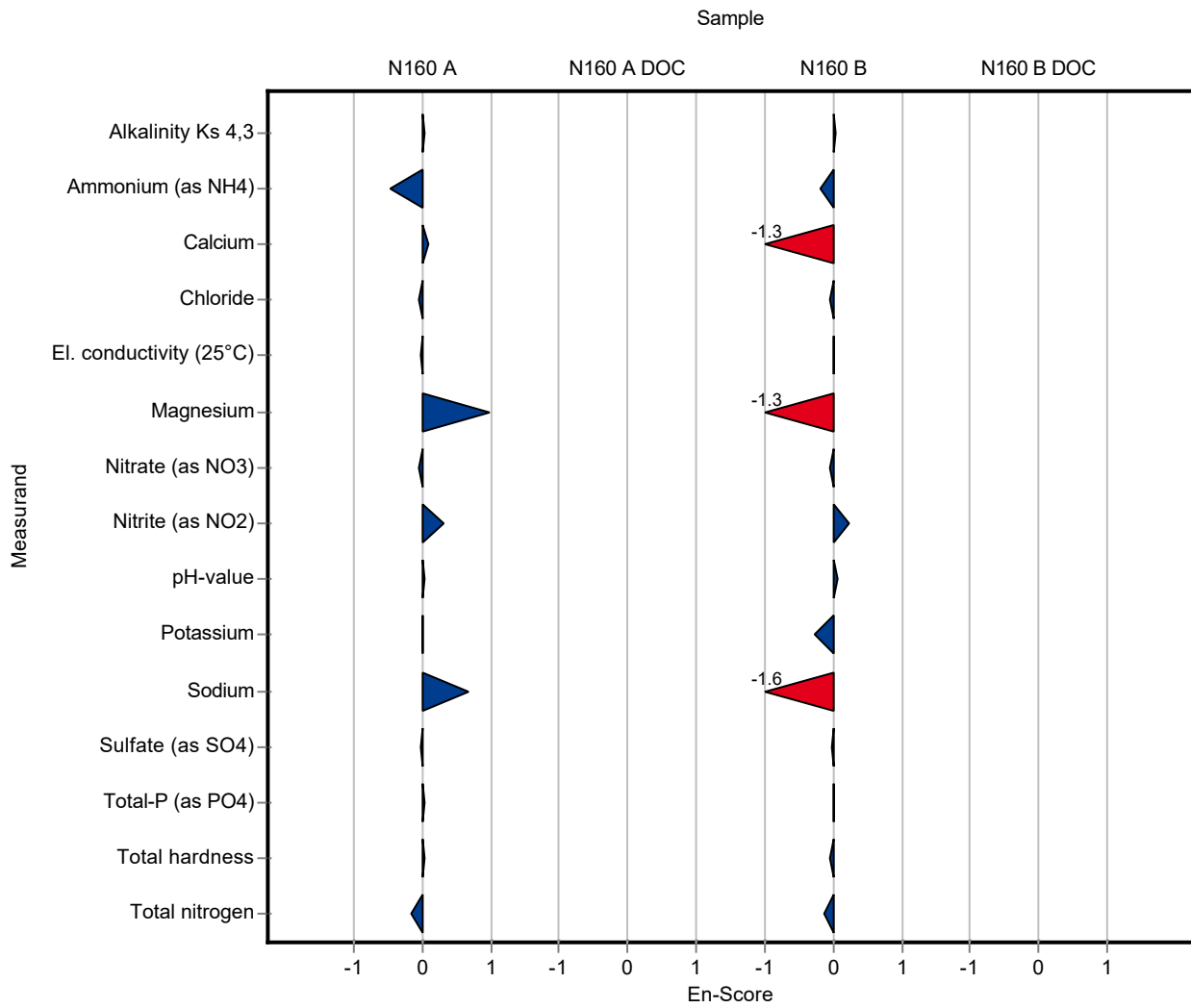
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.55 ± 0.355	0.0704	101	0.05
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.26 ± 0.065	0.0341	91.4	-0.19
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	59.486 ± 0.6	1.9	97	-1.34
Chloride	mg/l	22.3 ± 0.157	21.68 ± 5.42	0.891	97.3	-0.06
El. conductivity (25°C)	µS/cm	474 ± 1.13	475.35 ± 47.54	6.16	100	0.01
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	14.513 ± 0.15	0.598	97.1	-1.33
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.02 ± 3.3	0.672	96.9	-0.06
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.202 ± 0.02	0.0102	105	0.22
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.09 ± 0.15	0.161	100	0.07
Potassium	mg/l	2.18 ± 0.0235	2.062 ± 0.21	0.113	94.6	-0.28
Sodium	mg/l	14.3 ± 0.118	13.769 ± 0.14	0.485	96.5	-1.62
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.09 ± 7.27	0.973	98.7	-0.03
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.935 ± 0.24	0.0694	101	0.02
Total hardness	mmol/l	2.14 ± 0.0185	2.1 ± 0.4	0.0643	97.9	-0.06
Total nitrogen	mg/l	3.42 ± 0.0995	3.23 ± 0.7	0.284	94.5	-0.14

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.4 ± 2.814	1.41	100	0.10
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	5.5 ± 0.5434	0.277	103	0.64
Sodium	mg/l	31.6 ± 0.245	32.5 ± 4.297	1.07	103	0.82
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	65.3 ± 3.409	1.9	107	2.10

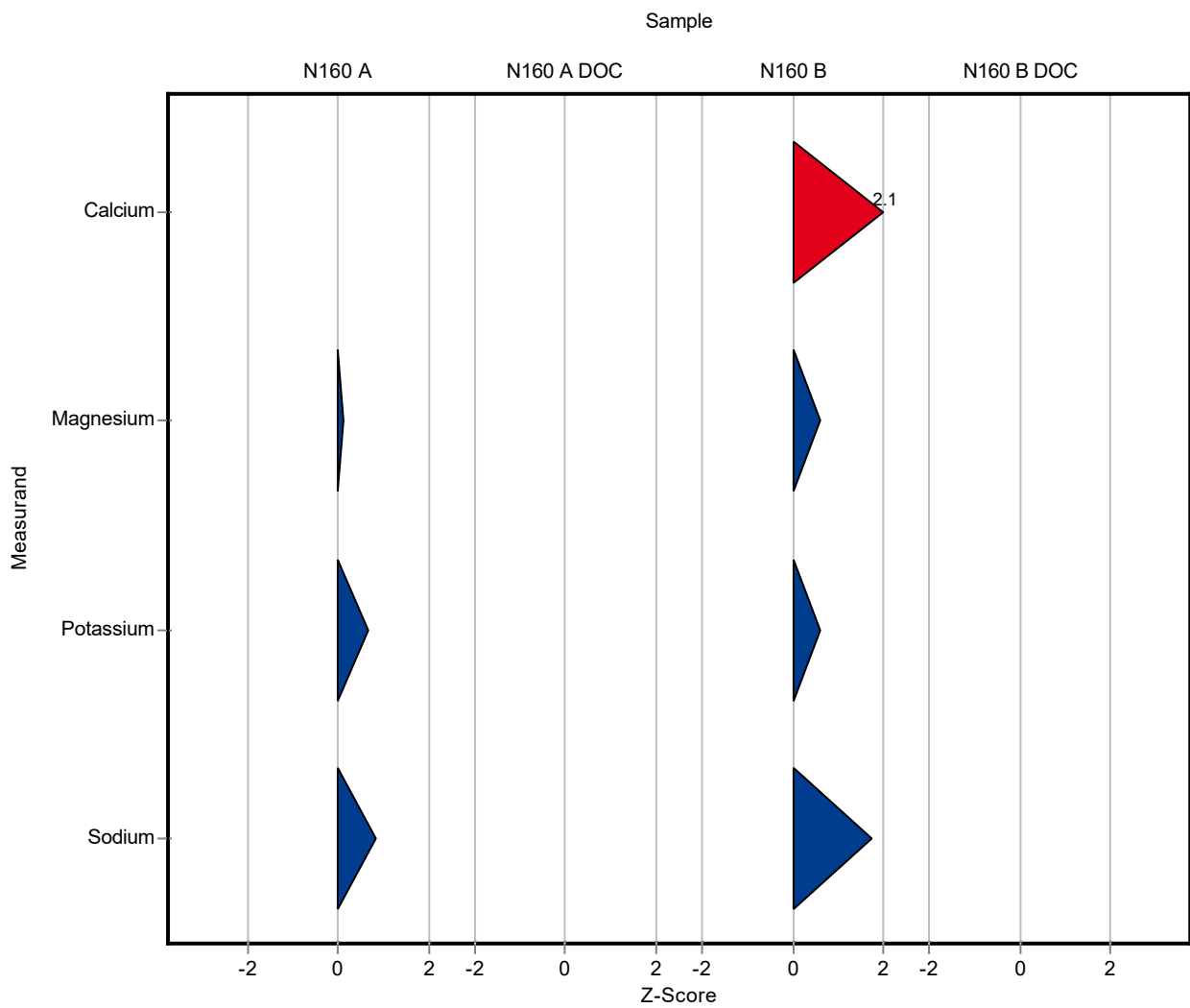
Summary of results Nutrients/Major Ions N160

Labcode: LC0077

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.3 ± 1.216	0.598	102	0.58
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	2.25 ± 0.2223	0.113	103	0.61
Sodium	mg/l	14.3 ± 0.118	15.1 ± 1.996	0.485	106	1.73
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	35.4 ± 2.814	1.41	100	0.03
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	5.5 ± 0.5434	0.277	103	0.16
Sodium	mg/l	31.6 ± 0.245	32.5 ± 4.297	1.07	103	0.10
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

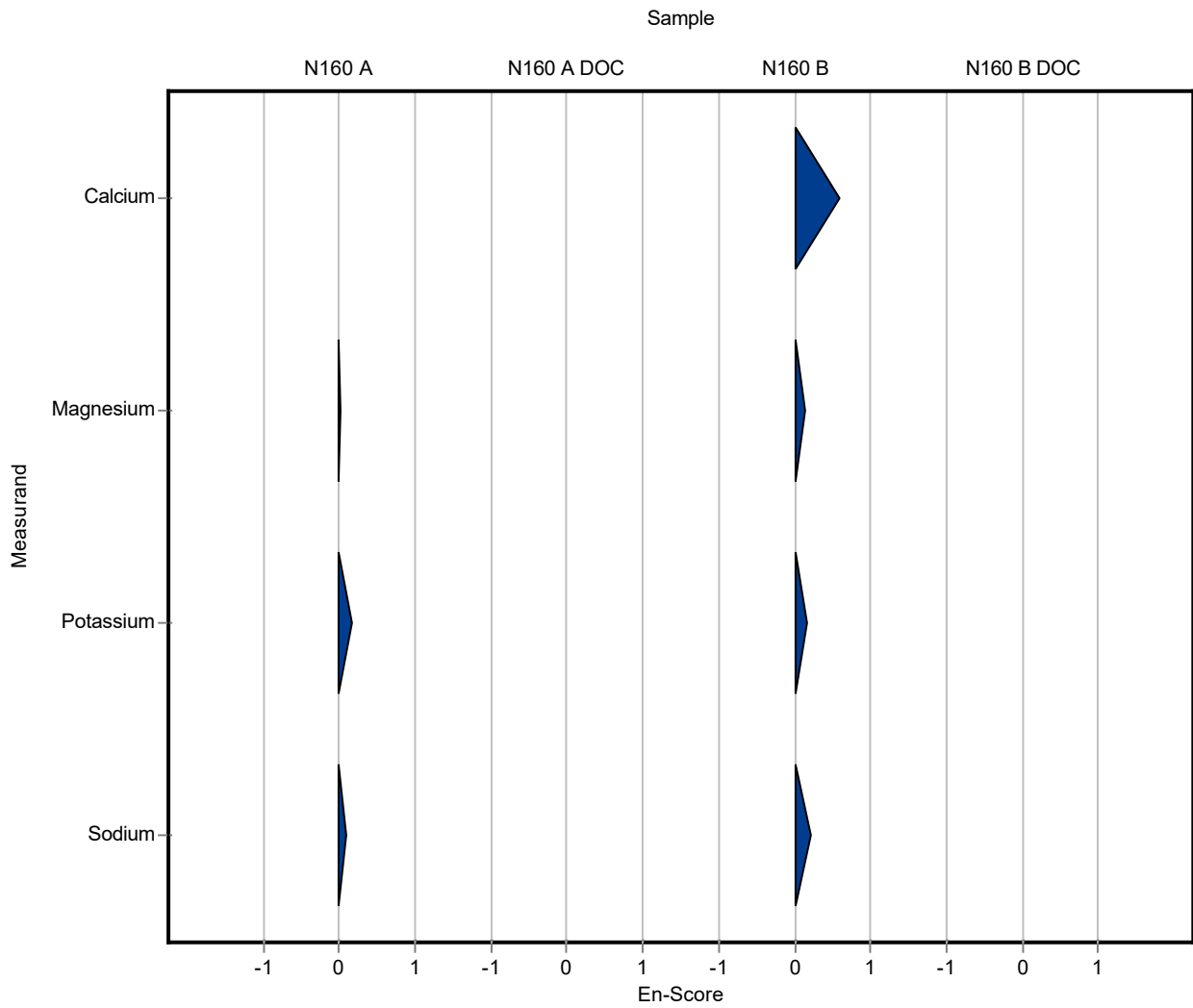
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0077

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	65.3 ± 3.409	1.9	107	0.58
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	15.3 ± 1.216	0.598	102	0.14
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	2.25 ± 0.2223	0.113	103	0.16
Sodium	mg/l	14.3 ± 0.118	15.1 ± 1.996	0.485	106	0.21
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1050 ± 30	13.6	100	0.02
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.67 ± 0.2	0.154	99.8	-0.10
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

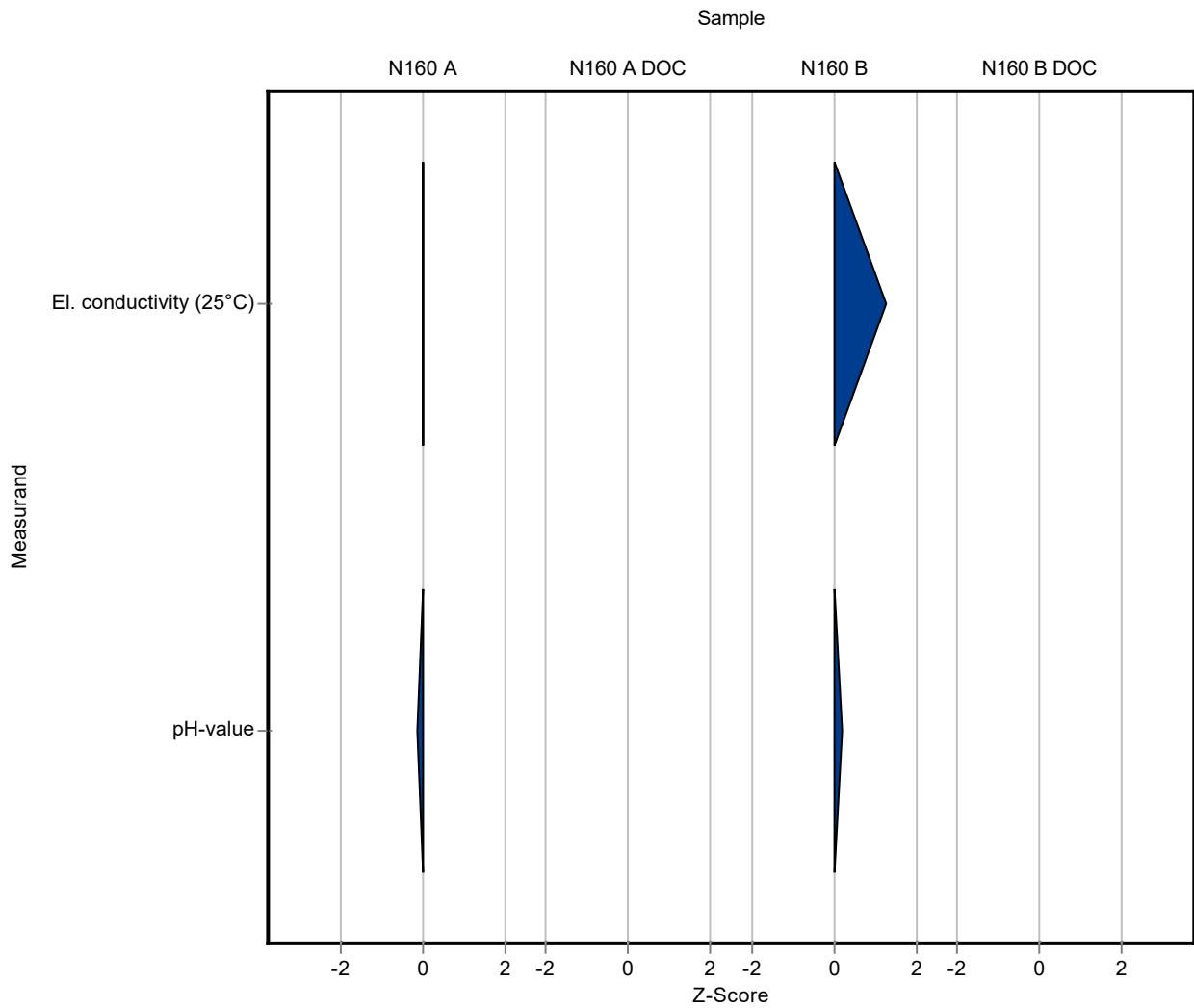
Summary of results Nutrients/Major Ions N160

Labcode: LC0078

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	482 ± 15	6.16	102	1.28
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.1 ± 0.2	0.161	100	0.19
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1050 ± 30	13.6	100	0.01
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	7.67 ± 0.2	0.154	99.8	-0.04
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

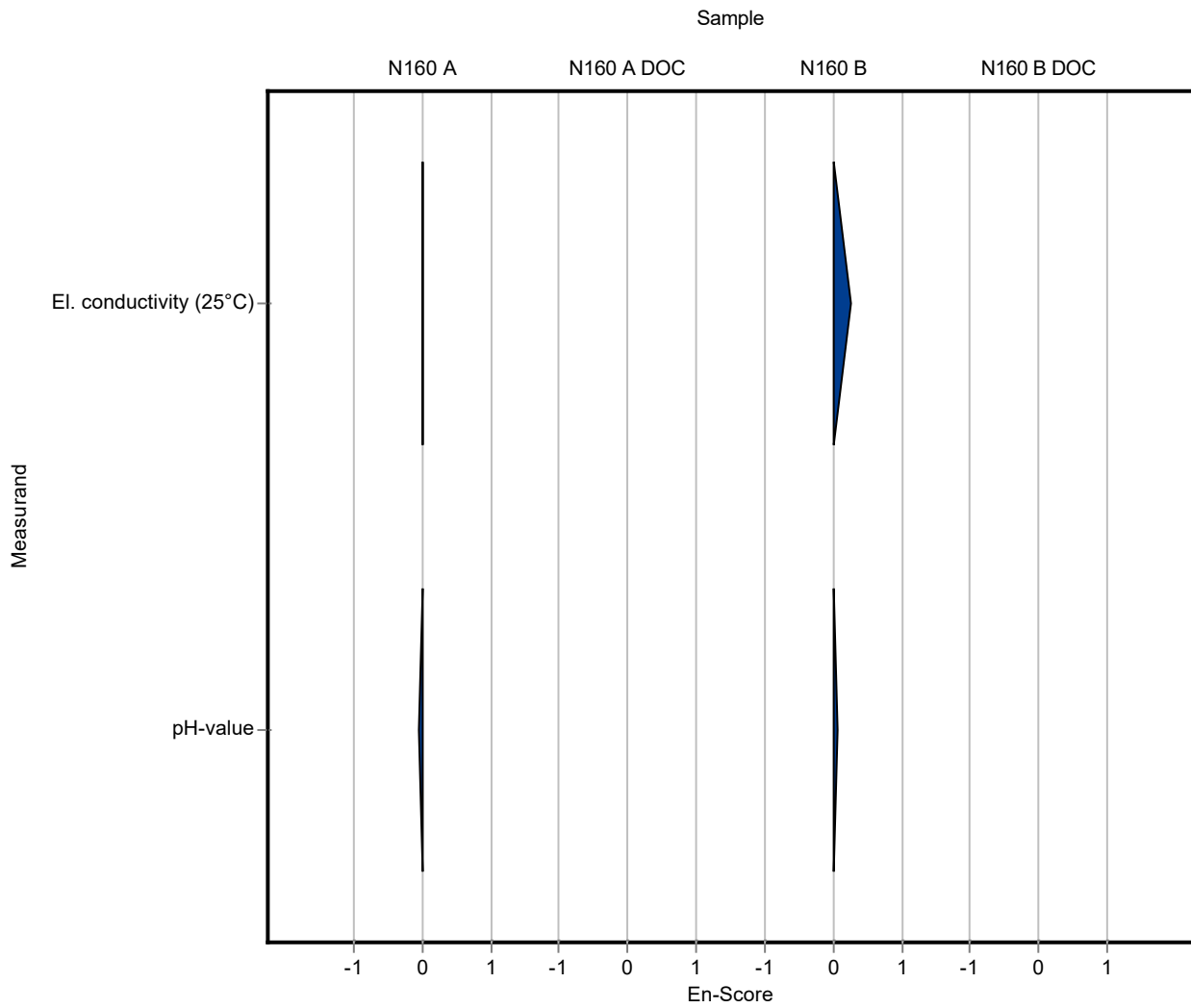
Summary of results Nutrients/Major Ions N160 - En-Score

Labcode: LC0078

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	482 ± 15	6.16	102	0.26
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	8.1 ± 0.2	0.161	100	0.08
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.23 ± 0.723	0.159	91	-4.50
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.08 ± 0.008	0.00952	101	0.07
Boron	mg/l	0.0747 ± 0.00166	0.079 ± 0.01	0.00822	106	0.52
Calcium	mg/l	143 ± 1.42	138 ± 20.7	4.42	96.8	-1.03
Chloride	mg/l	72.1 ± 0.47	74.4 ± 7.44	2.89	103	0.78
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1070 ± 0.03	13.6	102	1.49
Hydrogen carbonate	mg/l	483 ± 1.82	441 ± 44.1	9.66	91.3	-4.34
Magnesium	mg/l	35.3 ± 0.274	35.5 ± 5.33	1.41	101	0.17
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.9 ± 2.29	1.19	96.3	-0.74
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.31 ± 0.03	0.0153	107	1.41
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.12 ± 0.012	0.00987	195	5.91
pH-value	-	7.69 ± 0.0265	7.55 ± 0.23	0.154	98.2	-0.89
Potassium	mg/l	5.32 ± 0.0504	9.11 ± 1.37	0.277	171	13.70
Sodium	mg/l	31.6 ± 0.245	30.4 ± 4.56	1.07	96.2	-1.13
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.15 ± 5.31	1.78	98.7	-0.40
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.039 ± 0.004	0.0891	3.28	-12.90
Total hardness	mmol/l	5 ± 0.0376	9.81 ± 0.98	0.15	196	32.00
Total nitrogen	mg/l	5.67 ± 0.147	5.32 ± 0.53	0.47	93.9	-0.73

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.09 ± 0.11	0.208	52.4	-4.76

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.29 ± 0.33	0.0704	93.5	-3.24
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.29 ± 0.03	0.0341	102	0.16
Boron	mg/l	0.0149 ± 0.000559	0.015 ± 0.002	0.00164	101	0.06
Calcium	mg/l	61.3 ± 0.649	61.2 ± 9.18	1.9	99.8	-0.06

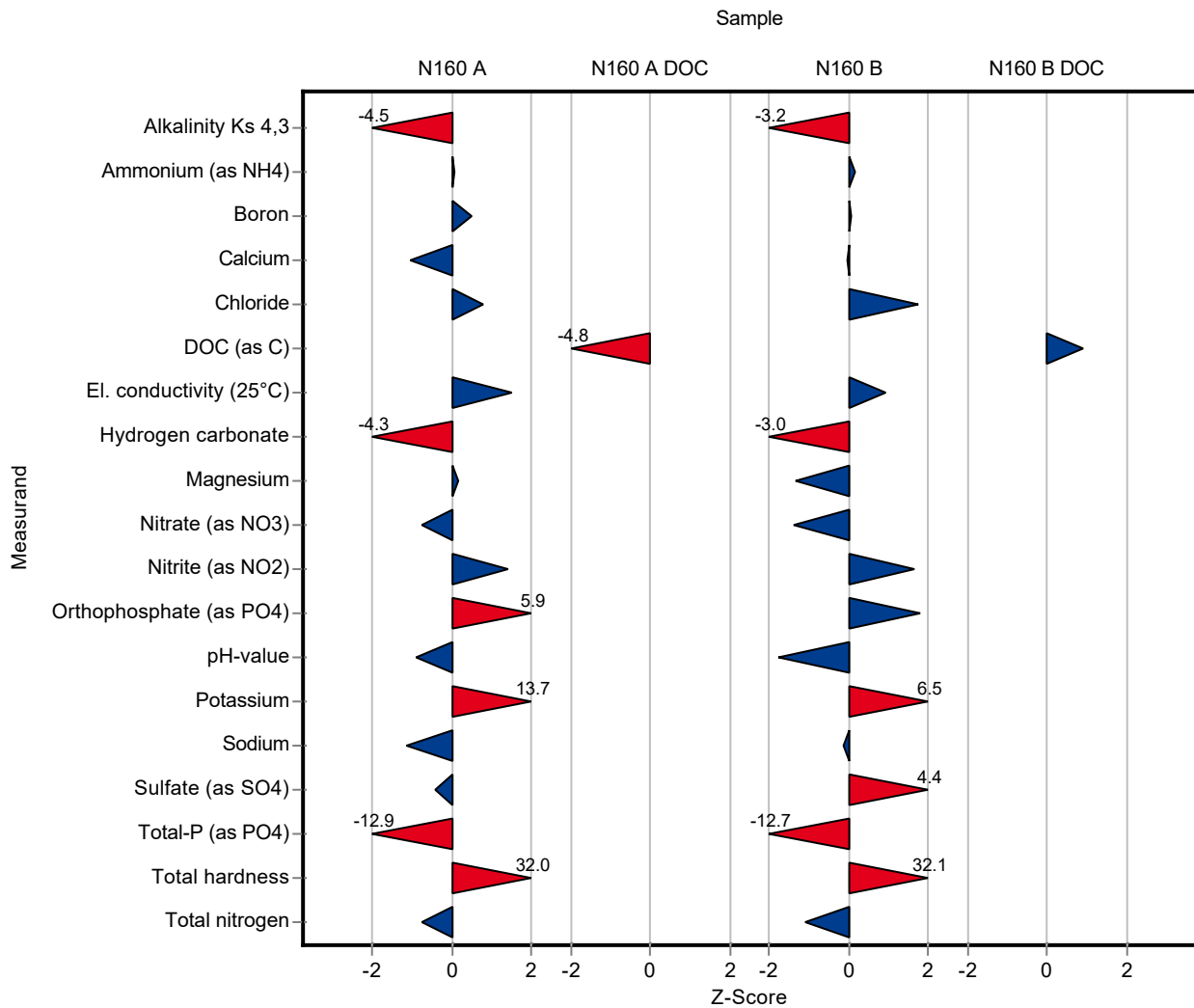
Summary of results Nutrients/Major Ions N160

Labcode: LC0079

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	23.85 ± 2.38	0.891	107	1.76
El. conductivity (25°C)	µS/cm	474 ± 1.13	480 ± 0.015	6.16	101	0.95
Hydrogen carbonate	mg/l	213 ± 1.3	200.1 ± 20.01	4.26	93.9	-3.04
Magnesium	mg/l	14.9 ± 0.135	14.16 ± 2.12	0.598	94.7	-1.32
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.5 ± 1.25	0.672	93	-1.40
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.21 ± 0.02	0.0102	109	1.64
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.14 ± 0.014	0.0174	128	1.78
pH-value	-	8.07 ± 0.019	7.78 ± 0.23	0.161	96.4	-1.80
Potassium	mg/l	2.18 ± 0.0235	2.92 ± 0.44	0.113	134	6.52
Sodium	mg/l	14.3 ± 0.118	14.2 ± 2.13	0.485	99.6	-0.13
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	33.8 ± 3.38	0.973	115	4.44
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.045 ± 0.005	0.0694	4.86	-12.70
Total hardness	mmol/l	2.14 ± 0.0185	4.21 ± 0.42	0.0643	196	32.10
Total nitrogen	mg/l	3.42 ± 0.0995	3.11 ± 0.31	0.284	91	-1.09

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.86 ± 0.29	0.263	109	0.89



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	7.23 ± 0.723	0.159	91	-0.49
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.08 ± 0.008	0.00952	101	0.04
Boron	mg/l	0.0747 ± 0.00166	0.079 ± 0.01	0.00822	106	0.21
Calcium	mg/l	143 ± 1.42	138 ± 20.7	4.42	96.8	-0.11
Chloride	mg/l	72.1 ± 0.47	74.4 ± 7.44	2.89	103	0.15
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1070 ± 0.03	13.6	102	5.65
Hydrogen carbonate	mg/l	483 ± 1.82	441 ± 44.1	9.66	91.3	-0.47
Magnesium	mg/l	35.3 ± 0.274	35.5 ± 5.33	1.41	101	0.02
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	22.9 ± 2.29	1.19	96.3	-0.19
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.31 ± 0.03	0.0153	107	0.36
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.12 ± 0.012	0.00987	195	2.41
pH-value	-	7.69 ± 0.0265	7.55 ± 0.23	0.154	98.2	-0.30
Potassium	mg/l	5.32 ± 0.0504	9.11 ± 1.37	0.277	171	1.38
Sodium	mg/l	31.6 ± 0.245	30.4 ± 4.56	1.07	96.2	-0.13
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	53.15 ± 5.31	1.78	98.7	-0.07
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	0.039 ± 0.004	0.0891	3.28	-57.20
Total hardness	mmol/l	5 ± 0.0376	9.81 ± 0.98	0.15	196	2.45
Total nitrogen	mg/l	5.67 ± 0.147	5.32 ± 0.53	0.47	93.9	-0.32

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	1.09 ± 0.11	0.208	52.4	-4.35

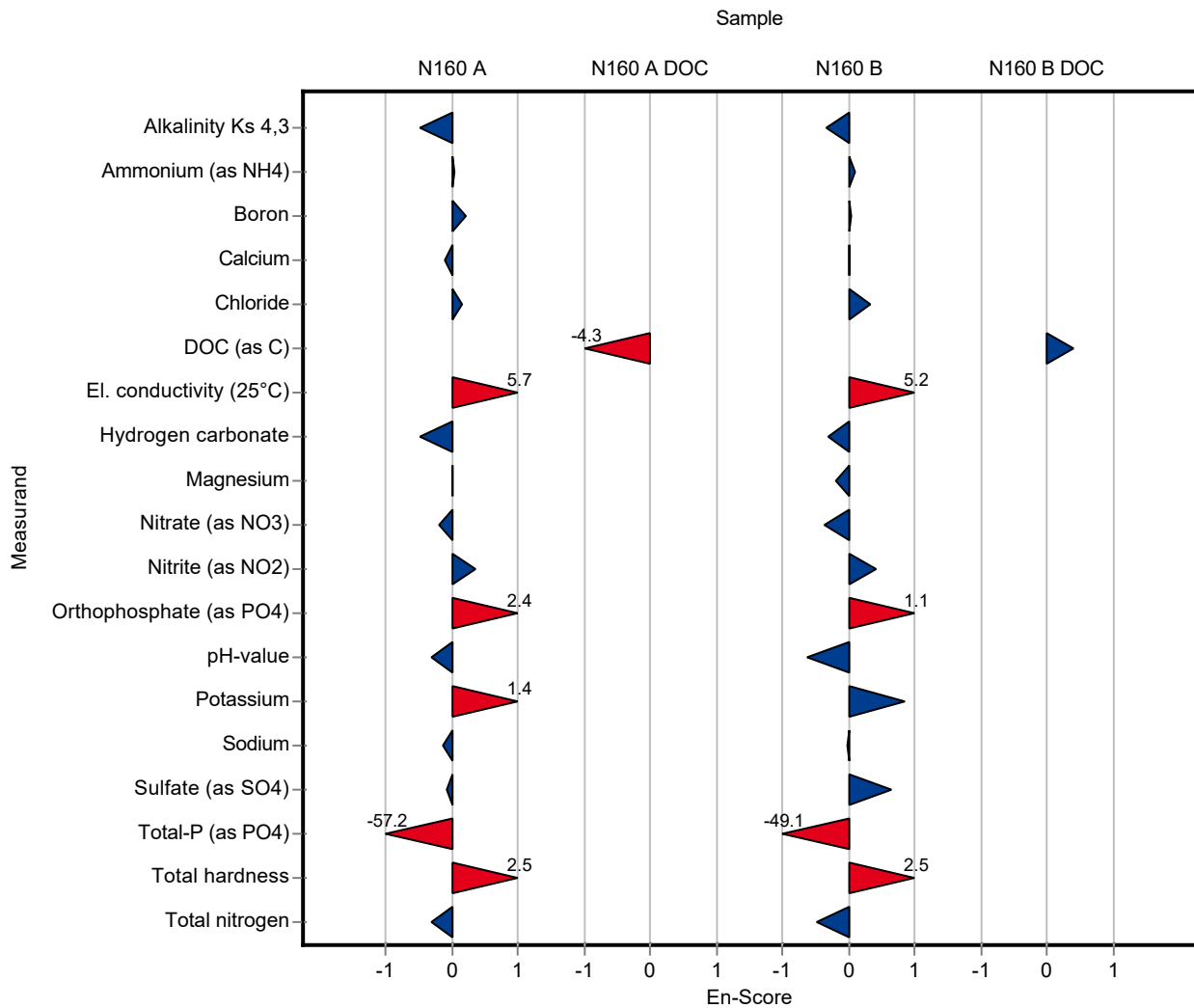
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	3.29 ± 0.33	0.0704	93.5	-0.34
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.29 ± 0.03	0.0341	102	0.09
Boron	mg/l	0.0149 ± 0.000559	0.015 ± 0.002	0.00164	101	0.02

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61.2 ± 9.18	1.9	99.8	-0.01
Chloride	mg/l	22.3 ± 0.157	23.85 ± 2.38	0.891	107	0.33
El. conductivity (25°C)	µS/cm	474 ± 1.13	480 ± 0.015	6.16	101	5.19
Hydrogen carbonate	mg/l	213 ± 1.3	200.1 ± 20.01	4.26	93.9	-0.32
Magnesium	mg/l	14.9 ± 0.135	14.16 ± 2.12	0.598	94.7	-0.19
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	12.5 ± 1.25	0.672	93	-0.38
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.21 ± 0.02	0.0102	109	0.42
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.14 ± 0.014	0.0174	128	1.09
pH-value	-	8.07 ± 0.019	7.78 ± 0.23	0.161	96.4	-0.63
Potassium	mg/l	2.18 ± 0.0235	2.92 ± 0.44	0.113	134	0.84
Sodium	mg/l	14.3 ± 0.118	14.2 ± 2.13	0.485	99.6	-0.01
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	33.8 ± 3.38	0.973	115	0.64
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	0.045 ± 0.005	0.0694	4.86	-49.10
Total hardness	mmol/l	2.14 ± 0.0185	4.21 ± 0.42	0.0643	196	2.46
Total nitrogen	mg/l	3.42 ± 0.0995	3.11 ± 0.31	0.284	91	-0.49

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	2.86 ± 0.29	0.263	109	0.40



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.453 ± 0.0104	0.00952	571	39.20
Boron	mg/l	0.0747 ± 0.00166	0.0741 ± 0.002	0.00822	99.2	-0.08
Calcium	mg/l	143 ± 1.42	135.5 ± 0.773	4.42	95	-1.60
Chloride	mg/l	72.1 ± 0.47	68.604 ± 0.136	2.89	95.1	-1.23
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1038 ± 0.5	13.6	98.9	-0.85
Hydrogen carbonate	mg/l	483 ± 1.82	469.85 ± 47.29	9.66	97.3	-1.36
Magnesium	mg/l	35.3 ± 0.274	34.393 ± 0.3	1.41	97.6	-0.61
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.597 ± 0.133	1.19	99.2	-0.16
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.254 ± 0.0005	0.0153	88.1	-2.25
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0429 ± 0.0005	0.00987	69.6	-1.90
pH-value	-	7.69 ± 0.0265	7.61 ± 0.05	0.154	99	-0.50
Potassium	mg/l	5.32 ± 0.0504	5.205 ± 0.022	0.277	97.8	-0.43
Sodium	mg/l	31.6 ± 0.245	29.773 ± 0.171	1.07	94.2	-1.71
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.813 ± 0.091	1.78	104	1.10
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.611 ± 0.0388	0.0891	136	4.75
Total hardness	mmol/l	5 ± 0.0376	0.0964 ± 0.0033	0.15	1.93	-32.70
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.684 ± 0.0026	0.0341	240	11.70
Boron	mg/l	0.0149 ± 0.000559	0.0103 ± 0.0005	0.00164	69.1	-2.81
Calcium	mg/l	61.3 ± 0.649	61.23 ± 0.178	1.9	99.9	-0.04

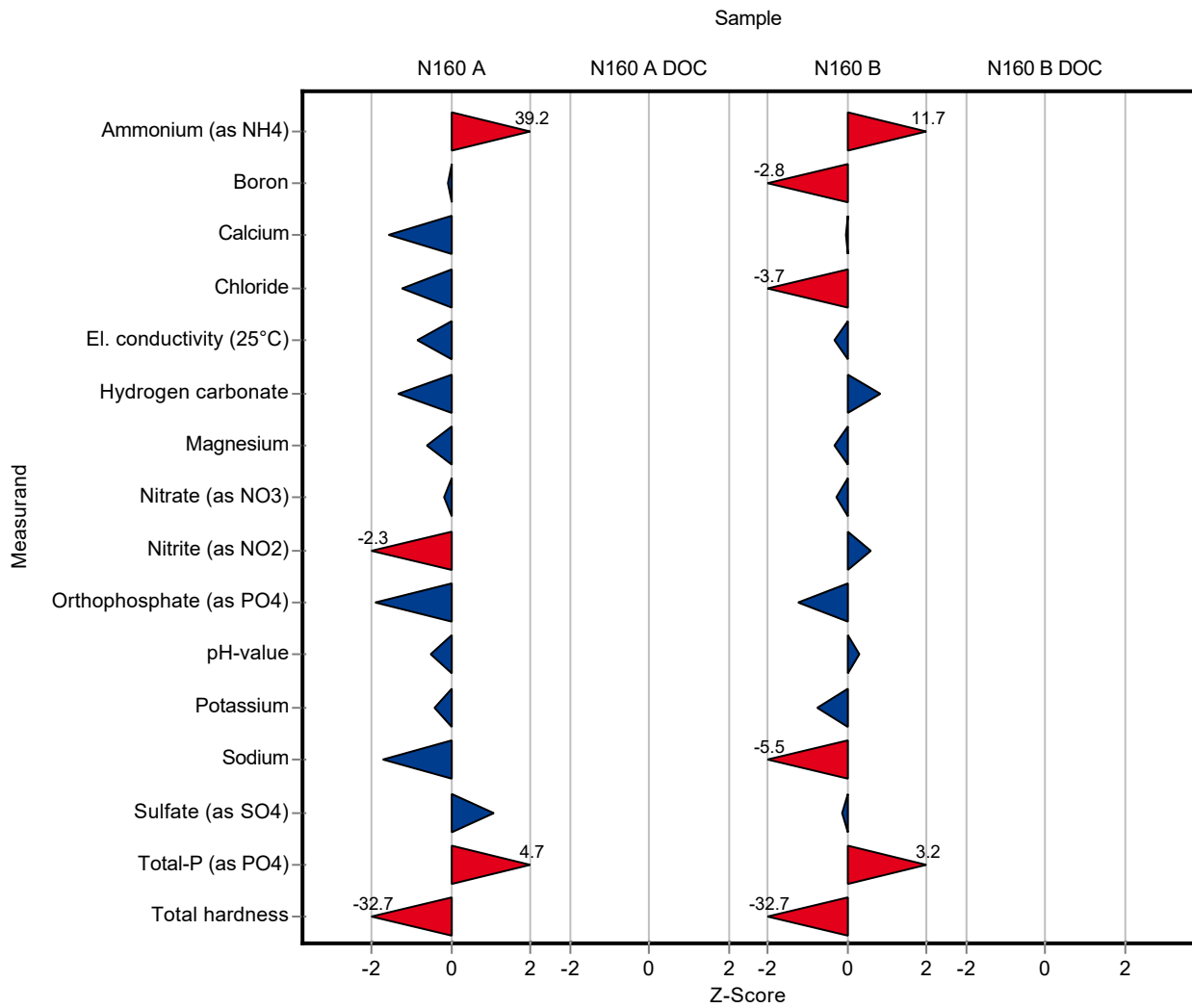
Summary of results Nutrients/Major Ions N160

Labcode: LC0080

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	18.955 ± 0.05	0.891	85.1	-3.73
El. conductivity (25°C)	µS/cm	474 ± 1.13	472 ± 0.5	6.16	99.5	-0.35
Hydrogen carbonate	mg/l	213 ± 1.3	216.62 ± 4.577	4.26	102	0.84
Magnesium	mg/l	14.9 ± 0.135	14.741 ± 0.506	0.598	98.6	-0.35
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.243 ± 0.0375	0.672	98.6	-0.29
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.199 ± 0.0004	0.0102	103	0.57
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.087 ± 0.0005	0.0174	79.9	-1.26
pH-value	-	8.07 ± 0.019	8.12 ± 0.02	0.161	101	0.31
Potassium	mg/l	2.18 ± 0.0235	2.092 ± 0.0499	0.113	95.9	-0.78
Sodium	mg/l	14.3 ± 0.118	11.618 ± 0.348	0.485	81.5	-5.45
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.373 ± 0.0469	0.973	99.6	-0.11
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.151 ± 0.0055	0.0694	124	3.25
Total hardness	mmol/l	2.14 ± 0.0185	0.0429 ± 0.0027	0.0643	2	-32.70
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.453 ± 0.0104	0.00952	571	17.80
Boron	mg/l	0.0747 ± 0.00166	0.0741 ± 0.002	0.00822	99.2	-0.14
Calcium	mg/l	143 ± 1.42	135.5 ± 0.773	4.42	95	-3.37
Chloride	mg/l	72.1 ± 0.47	68.604 ± 0.136	2.89	95.1	-6.53
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1038 ± 0.5	13.6	98.9	-3.13
Hydrogen carbonate	mg/l	483 ± 1.82	469.85 ± 47.29	9.66	97.3	-0.14
Magnesium	mg/l	35.3 ± 0.274	34.393 ± 0.3	1.41	97.6	-1.31
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	23.597 ± 0.133	1.19	99.2	-0.52
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.254 ± 0.0005	0.0153	88.1	-9.23
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.0429 ± 0.0005	0.00987	69.6	-5.53
pH-value	-	7.69 ± 0.0265	7.61 ± 0.05	0.154	99	-0.74
Potassium	mg/l	5.32 ± 0.0504	5.205 ± 0.022	0.277	97.8	-1.77
Sodium	mg/l	31.6 ± 0.245	29.773 ± 0.171	1.07	94.2	-4.38
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	55.813 ± 0.091	1.78	104	4.29
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.611 ± 0.0388	0.0891	136	5.31
Total hardness	mmol/l	5 ± 0.0376	0.0964 ± 0.0033	0.15	1.93	-128.00
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

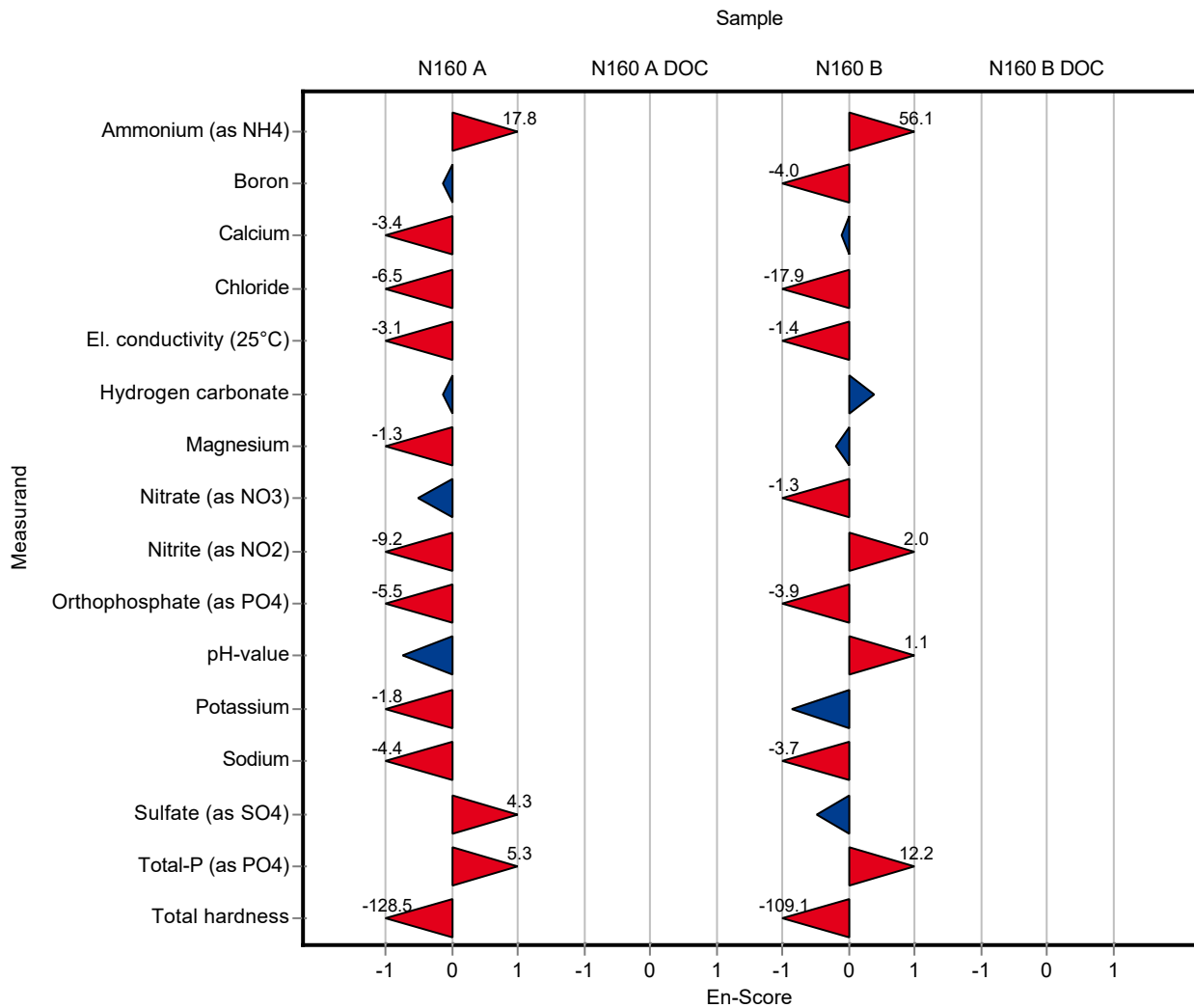
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.684 ± 0.0026	0.0341	240	56.10
Boron	mg/l	0.0149 ± 0.000559	0.0103 ± 0.0005	0.00164	69.1	-4.02

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	61.23 ± 0.178	1.9	99.9	-0.11
Chloride	mg/l	22.3 ± 0.157	18.955 ± 0.05	0.891	85.1	-17.90
El. conductivity (25°C)	µS/cm	474 ± 1.13	472 ± 0.5	6.16	99.5	-1.41
Hydrogen carbonate	mg/l	213 ± 1.3	216.62 ± 4.577	4.26	102	0.39
Magnesium	mg/l	14.9 ± 0.135	14.741 ± 0.506	0.598	98.6	-0.20
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	13.243 ± 0.0375	0.672	98.6	-1.28
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.199 ± 0.0004	0.0102	103	2.05
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.087 ± 0.0005	0.0174	79.9	-3.93
pH-value	-	8.07 ± 0.019	8.12 ± 0.02	0.161	101	1.13
Potassium	mg/l	2.18 ± 0.0235	2.092 ± 0.0499	0.113	95.9	-0.86
Sodium	mg/l	14.3 ± 0.118	11.618 ± 0.348	0.485	81.5	-3.75
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	29.373 ± 0.0469	0.973	99.6	-0.49
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.151 ± 0.0055	0.0694	124	12.20
Total hardness	mmol/l	2.14 ± 0.0185	0.0429 ± 0.0027	0.0643	2	-109.00
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.042 ± 0.003	0.00952	52.9	-3.92
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	137.47 ± 8.86	4.42	96.4	-1.15
Chloride	mg/l	72.1 ± 0.47	72.35 ± 3.57	2.89	100	0.07
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1394 ± 3	13.6	133	25.20
Hydrogen carbonate	mg/l	483 ± 1.82	466 ± 4.63	9.66	96.5	-1.75
Magnesium	mg/l	35.3 ± 0.274	38.18 ± 0.53	1.41	108	2.08
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	3.06 ± 0.177	1.19	12.9	-17.40
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.252 ± 0.037	0.0153	87.4	-2.38
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.04 ± 0.006	0.00987	64.9	-2.20
pH-value	-	7.69 ± 0.0265	7.49 ± 0.1	0.154	97.4	-1.28
Potassium	mg/l	5.32 ± 0.0504	12.3 ± 1	0.277	231	25.20
Sodium	mg/l	31.6 ± 0.245	29.2 ± 2	1.07	92.4	-2.25
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	49.57 ± 6.05	1.78	92	-2.41
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.264 ± 0.026	0.0891	106	0.85
Total hardness	mmol/l	5 ± 0.0376	5 ± 0.24	0.15	99.9	-0.03
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.129 ± 0.009	0.0341	45.3	-4.55
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	58.92 ± 3.91	1.9	96.1	-1.26

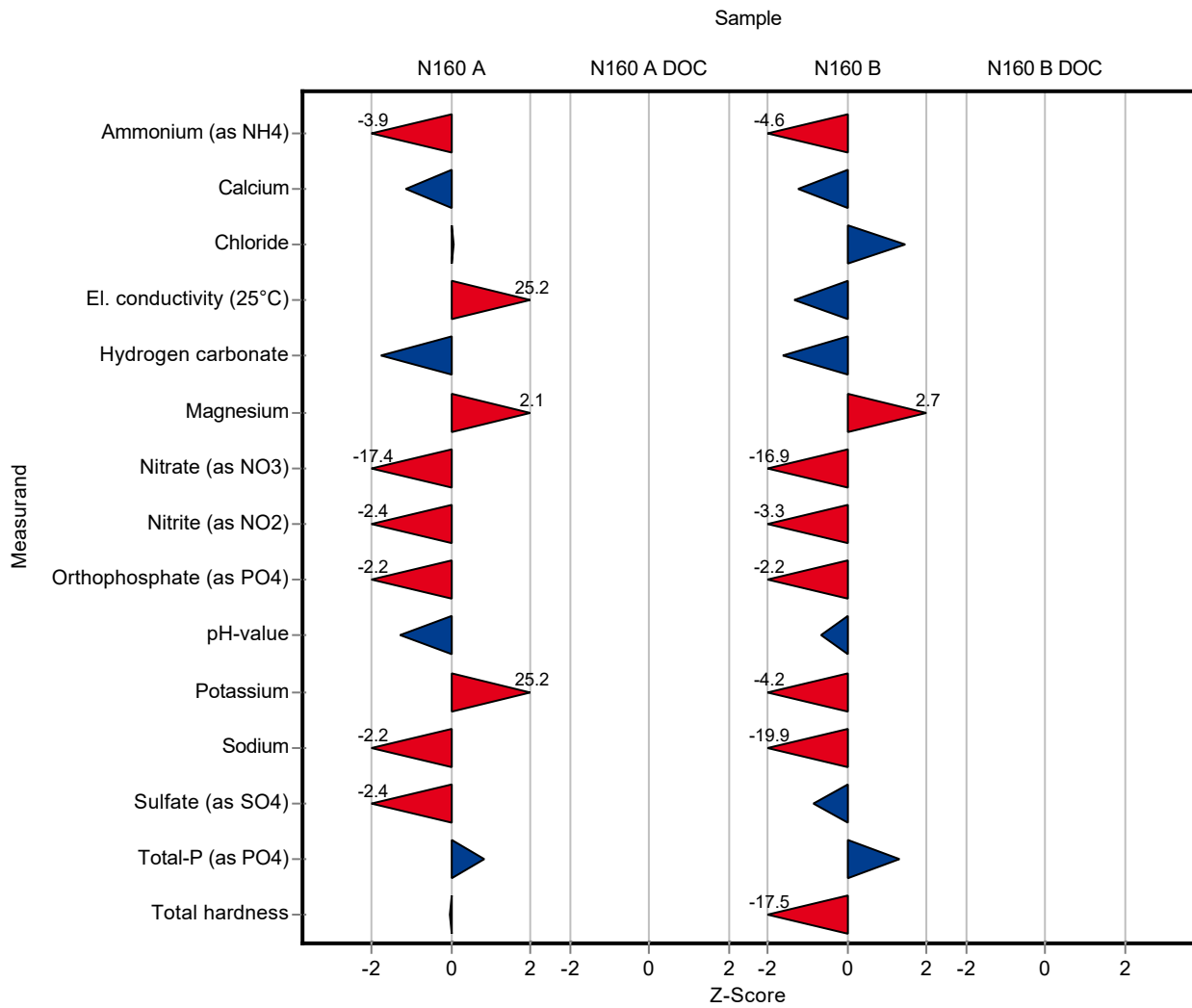
Summary of results Nutrients/Major Ions N160

Labcode: LC0081

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	23.58 ± 2.11	0.891	106	1.46
El. conductivity (25°C)	µS/cm	474 ± 1.13	466 ± 3	6.16	98.3	-1.32
Hydrogen carbonate	mg/l	213 ± 1.3	206 ± 3.33	4.26	96.7	-1.65
Magnesium	mg/l	14.9 ± 0.135	16.54 ± 0.23	0.598	111	2.66
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	2.05 ± 0.119	0.672	15.3	-16.90
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.159 ± 0.025	0.0102	82.3	-3.34
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.071 ± 0.009	0.0174	65.2	-2.18
pH-value	-	8.07 ± 0.019	7.96 ± 0.1	0.161	98.6	-0.68
Potassium	mg/l	2.18 ± 0.0235	1.7 ± 0.3	0.113	78	-4.24
Sodium	mg/l	14.3 ± 0.118	4.6 ± 0.3	0.485	32.3	-19.90
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.66 ± 3.54	0.973	97.2	-0.85
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.017 ± 0.021	0.0694	110	1.32
Total hardness	mmol/l	2.14 ± 0.0185	1.017 ± 0.02	0.0643	47.4	-17.50
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	0.042 ± 0.003	0.00952	52.9	-5.69
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	137.47 ± 8.86	4.42	96.4	-0.29
Chloride	mg/l	72.1 ± 0.47	72.35 ± 3.57	2.89	100	0.03
El. conductivity (25°C)	µS/cm	1050 ± 3.6	1394 ± 3	13.6	133	49.20
Hydrogen carbonate	mg/l	483 ± 1.82	466 ± 4.63	9.66	96.5	-1.80
Magnesium	mg/l	35.3 ± 0.274	38.18 ± 0.53	1.41	108	2.67
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	3.06 ± 0.177	1.19	12.9	-48.90
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	0.252 ± 0.037	0.0153	87.4	-0.49
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	0.04 ± 0.006	0.00987	64.9	-1.74
pH-value	-	7.69 ± 0.0265	7.49 ± 0.1	0.154	97.4	-0.97
Potassium	mg/l	5.32 ± 0.0504	12.3 ± 1	0.277	231	3.49
Sodium	mg/l	31.6 ± 0.245	29.2 ± 2	1.07	92.4	-0.60
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	49.57 ± 6.05	1.78	92	-0.35
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	1.264 ± 0.026	0.0891	106	1.38
Total hardness	mmol/l	5 ± 0.0376	5 ± 0.24	0.15	99.9	-0.01
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

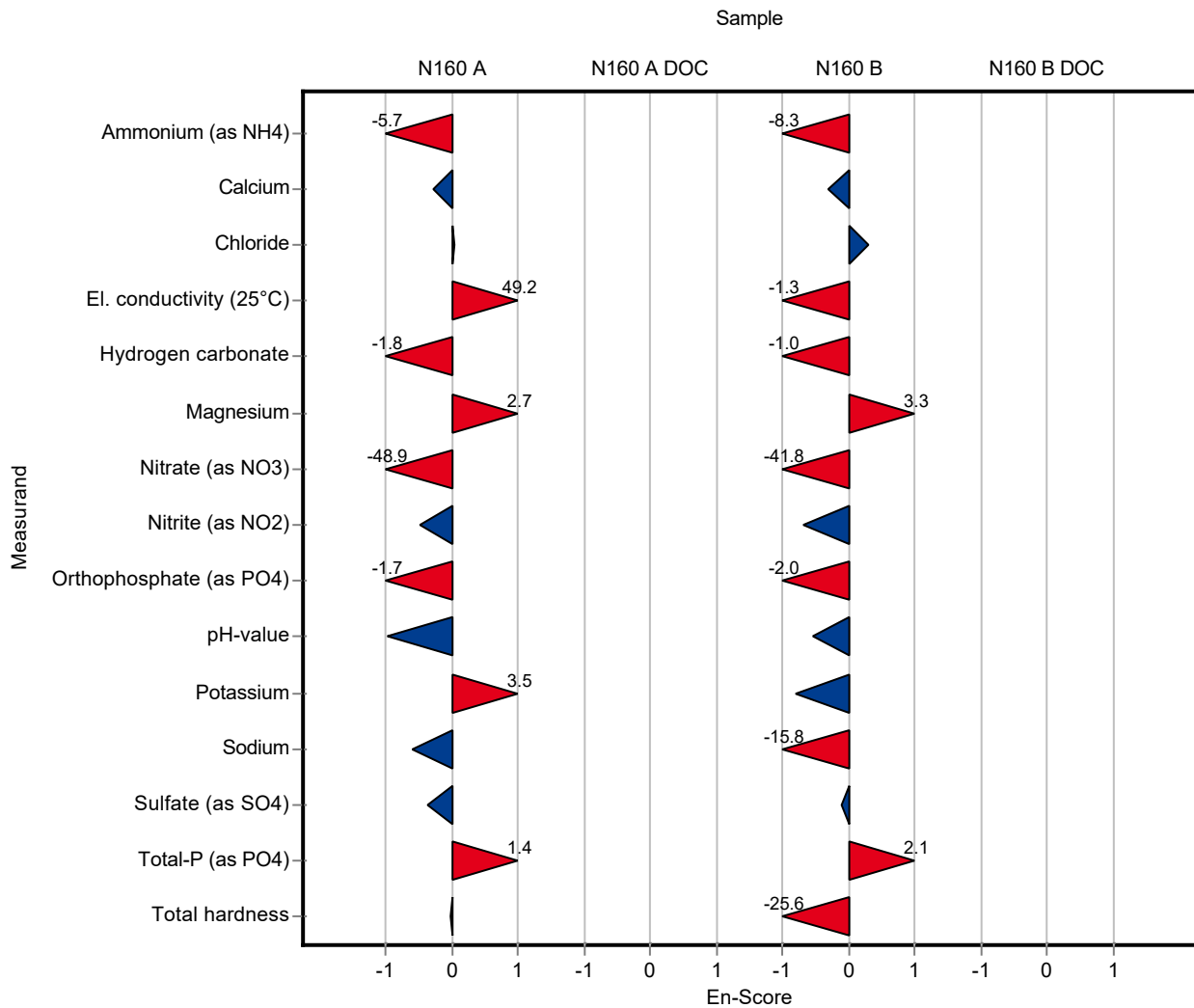
Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	0.129 ± 0.009	0.0341	45.3	-8.34
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	58.92 ± 3.91	1.9	96.1	-0.30
Chloride	mg/l	22.3 ± 0.157	23.58 ± 2.11	0.891	106	0.31
El. conductivity (25°C)	µS/cm	474 ± 1.13	466 ± 3	6.16	98.3	-1.33
Hydrogen carbonate	mg/l	213 ± 1.3	206 ± 3.33	4.26	96.7	-1.04
Magnesium	mg/l	14.9 ± 0.135	16.54 ± 0.23	0.598	111	3.32
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	2.05 ± 0.119	0.672	15.3	-41.80
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	0.159 ± 0.025	0.0102	82.3	-0.68
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	0.071 ± 0.009	0.0174	65.2	-2.02
pH-value	-	8.07 ± 0.019	7.96 ± 0.1	0.161	98.6	-0.55
Potassium	mg/l	2.18 ± 0.0235	1.7 ± 0.3	0.113	78	-0.80
Sodium	mg/l	14.3 ± 0.118	4.6 ± 0.3	0.485	32.3	-15.80
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	28.66 ± 3.54	0.973	97.2	-0.12
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	1.017 ± 0.021	0.0694	110	2.05
Total hardness	mmol/l	2.14 ± 0.0185	1.017 ± 0.02	0.0643	47.4	-25.60
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-



Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-

Summary of results Nutrients/Major Ions N160

Labcode: LC0082

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	z-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-

Sample: N160A

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	7.95 ± 0.0264	- ± -	0.159	-	-
Ammonium (as NH ₄)	mg/l	0.0793 ± 0.00266	- ± -	0.00952	-	-
Boron	mg/l	0.0747 ± 0.00166	- ± -	0.00822	-	-
Calcium	mg/l	143 ± 1.42	- ± -	4.42	-	-
Chloride	mg/l	72.1 ± 0.47	- ± -	2.89	-	-
El. conductivity (25°C)	µS/cm	1050 ± 3.6	- ± -	13.6	-	-
Hydrogen carbonate	mg/l	483 ± 1.82	- ± -	9.66	-	-
Magnesium	mg/l	35.3 ± 0.274	- ± -	1.41	-	-
Nitrate (as NO ₃)	mg/l	23.8 ± 0.233	- ± -	1.19	-	-
Nitrite (as NO ₂)	mg/l	0.288 ± 0.00359	- ± -	0.0153	-	-
Orthophosphate (as PO ₄)	mg/l	0.0617 ± 0.00324	- ± -	0.00987	-	-
pH-value	-	7.69 ± 0.0265	- ± -	0.154	-	-
Potassium	mg/l	5.32 ± 0.0504	- ± -	0.277	-	-
Sodium	mg/l	31.6 ± 0.245	- ± -	1.07	-	-
Sulfate (as SO ₄)	mg/l	53.9 ± 0.416	- ± -	1.78	-	-
Total-P (as PO ₄)	mg/l	1.19 ± 0.0184	- ± -	0.0891	-	-
Total hardness	mmol/l	5 ± 0.0376	- ± -	0.15	-	-
Total nitrogen	mg/l	5.67 ± 0.147	- ± -	0.47	-	-

Sample: N160ADOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.08 ± 0.0585	- ± -	0.208	-	-

Sample: N160B

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Alkalinity Ks 4,3	mmol/l	3.52 ± 0.014	- ± -	0.0704	-	-
Ammonium (as NH ₄)	mg/l	0.285 ± 0.00486	- ± -	0.0341	-	-
Boron	mg/l	0.0149 ± 0.000559	- ± -	0.00164	-	-

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
Calcium	mg/l	61.3 ± 0.649	- ± -	1.9	-	-
Chloride	mg/l	22.3 ± 0.157	- ± -	0.891	-	-
El. conductivity (25°C)	µS/cm	474 ± 1.13	- ± -	6.16	-	-
Hydrogen carbonate	mg/l	213 ± 1.3	- ± -	4.26	-	-
Magnesium	mg/l	14.9 ± 0.135	- ± -	0.598	-	-
Nitrate (as NO ₃)	mg/l	13.4 ± 0.132	- ± -	0.672	-	-
Nitrite (as NO ₂)	mg/l	0.193 ± 0.00273	- ± -	0.0102	-	-
Orthophosphate (as PO ₄)	mg/l	0.109 ± 0.0055	- ± -	0.0174	-	-
pH-value	-	8.07 ± 0.019	- ± -	0.161	-	-
Potassium	mg/l	2.18 ± 0.0235	- ± -	0.113	-	-
Sodium	mg/l	14.3 ± 0.118	- ± -	0.485	-	-
Sulfate (as SO ₄)	mg/l	29.5 ± 0.207	- ± -	0.973	-	-
Total-P (as PO ₄)	mg/l	0.925 ± 0.0149	- ± -	0.0694	-	-
Total hardness	mmol/l	2.14 ± 0.0185	- ± -	0.0643	-	-
Total nitrogen	mg/l	3.42 ± 0.0995	- ± -	0.284	-	-

Sample: N160BDOC

Parameter	Unit	Assigned value ± U (k=2)	Result ± U	Criterion	Recovery [%]	En-Score
DOC (as C)	mg/l	2.63 ± 0.0618	- ± -	0.263	-	-

E9. Methodenübersicht / Overview of methods

LabCode	Sample	Alkalinity Ks 4,3	Boron	Calcium	Chloride	Total-P (as PO4)	Total hardness	Hydrogen carbonate
LC0001	N160A				EN ISO 10304-1; D20; IC	FIA (Oxisolv);		
LC0002	N160A	DIN 38409-7;		EN ISO 14911; IC; UV	EN ISO 10304-1; IC; UV	EN ISO 6878 (µW-dig.); microwave assisted digestion (µW-dig.); oxidising decomposition reagent	EN ISO 14911;	DIN 38409-7;
LC0003	N160A	EN ISO 10523; C5						
LC0004	N160A							
LC0005	N160A	titration; standard methods (water and wastewater 2320B)		EN ISO 11885;	EN ISO 10304-1;		calculated; standard methods (water and wastewater 2340B)	titration; standard methods (water and wastewater 2320B)
LC0006	N160A	DIN 38409-7;	EN ISO 11885; E22	EN ISO 11885; E22	EN ISO 10304-1;	EN ISO 6878;	DIN 38409-6;	DIN 38409-7; DEV D8
LC0007	N160A	DIN 38409-7;			EN ISO 10304-1;			
LC0008	N160A							
LC0009	N160A	DIN 38409-7;	EN ISO 11885;	EN ISO 11885;	EN ISO 10304;	ISO 15923-1;	calculated;	DIN 38409-7;
LC0010	N160A							
LC0011	N160A							
LC0012	N160A			photometry; Hach Lange	photometry; Hach Lange		photometry; Hach Lange	
LC0013	N160A					EN ISO 6878;		
LC0014	N160A	DIN 38409-7;		EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878;	DIN 38409;	DIN 38409-7;
LC0015	N160A	titrimetry;			titrimetry;	UV-VIS;		titrimetry;
LC0016	N160A				IC;	photometry;		
LC0017	N160A		DIN 38405-17; ÖN M6606	DIN 38406-3; (ÖN B 6261); ÖN M6268	EN ISO 10304-1;		DIN 38409-6; H6	
LC0018	N160A	titration; APAT CNR IRSA 2010 B	EN ISO 17294-2;	IC; APAT CNR IRSA 3030	IC; APAT CNR IRSA 4020	photometry (oxidation); APAT CNR IRSA 4060	titrimetry; ISS.BEC.031	titration; APAT CNR IRSA 2010 B
LC0019	N160A	DIN 38409-7;		EN ISO 11885;	EN ISO 10304-1;	EN ISO 6878;		DIN 38409-7;
LC0020	N160A	EN ISO 9963-1; titration	EN ISO 11885; ICP-OES	EN ISO 11885; ICP-OES	EN ISO 10304-1; IC	EN ISO 6878; digestion with peroxodisulphate and photometry		
LC0021	N160A	DIN 38409-7; H7	EN ISO 17294-2; E29	EN ISO 17294-2; E29	ISO 15923-1; D49	EN ISO 6878; D11	calculated;	calculated;

LabCode	Sample	Alkalinity Ks 4,3	Boron	Calcium	Chloride	Total-P (as PO4)	Total hardness	Hydrogen carbonate
LC0022	N160A	DIN 38409-7; H7				EN ISO 6878; D11		
LC0023	N160A	titration; SOP5306		titration; SOP5005	IC; SOP5166	spectrophotometric; SOP5097	titration; SOP5307	titration;
LC0024	N160A	DIN 38409-7; H7	EN ISO 11885;	EN ISO 11885;	EN ISO 10304-1;	EN ISO 11885;	DIN 38409-6;	
LC0025	N160A	DIN 38409-7;	EN ISO 17294-2;	EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878;	DIN 38409-6; H6	DIN 38409-7;
LC0026	N160A	EN ISO 9963-1;		EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878;	DIN 38409;	EN ISO 9963-1;
LC0027	N160A	DIN 38409-7; H7; titration				EN ISO 6878; photometry		DIN 38409-7; H7; calculated
LC0028	N160A			IC;	IC;	spectrophotometric;		titration;
LC0029	N160A				ISO 9297;	EN ISO 6878; UV-VIS;		
LC0030	N160A	DIN 38409-7;	EN ISO 17294-1;	EN ISO 17294-1;	ISO 15923-1;	EN ISO 6878;	calculated;	calculated;
LC0031	N160A	DIN 38409;	EN ISO 11885;	EN ISO 11885;	EN ISO 10304-1;	EN ISO 11885;	DIN 38409-6;	DIN 38409;
LC0032	N160A	Titration;	ICP-OES;	ICP-OES;	IC;	FIA; photometry	Titration;	Titration;
LC0033	N160A	DIN 38409-7;						calculated;
LC0034	N160A	DIN 38409-7;	EN ISO 17294-2;	EN ISO 17294-2;	EN ISO 10304-1;		DIN 38409-6; H6	DIN 38409-7;
LC0035	N160A	DIN 38409-7; H7	EN ISO 17294-2; E29	EN ISO 17294-2; E29	EN ISO 10304-1; D20	ICP-MS;	calculated;	calculated;
LC0036	N160A	DIN 38409-7;	EN ISO 11885;	EN ISO 14911;	EN ISO 10304-1;	EN ISO 15681-2;	EN ISO 14911;	DIN 38409-7;
LC0037	N160A					EN 1189 (D11);		
LC0038	N160A			EN ISO 11885;	EN ISO 15682;			
LC0039	N160A	EN ISO 9963-1;	EN ISO 17294-1;	EN ISO 17294-1;	EN ISO 10304-1;	EN ISO 6878;	calculated;	calculated;
LC0040	N160A	EN ISO 9963-1; titration	EN ISO 17294-2; ICP-MS	EN ISO 17294-2; ICP-MS	EN ISO 10304-1; IC	EN ISO 15681-2; CFA	EN ISO 17294-2; ICP-MS	EN ISO 9963-1; titration
LC0041	N160A	EN ISO 9963-1; modified, titrimetry		EN ISO 14911; modified; IC	EN ISO 10304-1; modified; IC		IC;	EN ISO 9963-1; titrimetry

LabCode	Sample	Alkalinity Ks 4,3	Boron	Calcium	Chloride	Total-P (as PO4)	Total hardness	Hydrogen carbonate
LC0042	N160A	titrimetry;		ICP-OES;	ICP-OES;	ICP-OES;	titrimetry;	titrimetry;
LC0043	N160A	DIN 38409-7;						
LC0044	N160A	EN ISO 9963-1;	EN ISO 17294-2;	EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878;	EN ISO 14911;	EN ISO 9963-1;
LC0045	N160A	DIN 38409-7;	EN ISO 17294-2;	EN ISO 17294-2;	EN ISO 10304-1;	EN ISO 15681-2;	EN ISO 17294-2;	DIN 38409-7;
LC0046	N160A	DIN 38409-7; H7	EN ISO 17294;	EN ISO 17294;	DIN 38405-1; D1	EN ISO 17294;	DIN 38409-6; H6	DIN 38409-7; H7
LC0047	N160A	DIN 38409-7; H7		EN ISO 11885;	EN ISO 10304-1; D20	EN ISO 11885;	DEV E3 ; (DIN 38405-3)	
LC0048	N160A					EN ISO 6878;		
LC0049	N160A	DIN 38409-7; titrimetry	EN ISO 11885; ICP-OES	EN ISO 11885; ICP-OES	EN ISO 10304-1; IC	EN ISO 15681-2; CFA		
LC0050	N160A	titrimetry;		IC;	IC;	photometry;	calculated; (Ca+Mg)	
LC0051	N160A	DIN 38409-7; H7	EN ISO 17294-2;	EN ISO 17294-2;	ISO 10304;	EN ISO 17294-2;	DIN 38409-6; H6	DEV D8; (DIN 38405)
LC0052	N160A	titration; APAT CNR IRSA 2010 B	EN ISO 11885;	IC; APAT CNR IRSA 3030	IC; APAT CNR IRSA 3030	photometry (oxidation); APAT CNR IRSA 4060	calculated; APAT CNR IRSA 2040 A; APAT CNR IRSA 3030 (IC)	titration; APAT CNR IRSA 2010 B
LC0053	N160A	DIN 38409-7; H7	EN ISO 17294-2; E29	EN ISO 14911;	EN ISO 10304-1;	EN ISO 11885; E22	EN ISO 14911;	DIN 38409-7; H7
LC0054	N160A	DIN 38409-7; H7		DIN 38406-3; E3	EN ISO 10304-1; D20		DIN 38406-3; E3	
LC0055	N160A			IC;	IC;			
LC0056	N160A	DIN 38409-7; H7	EN ISO 11885; E22	EN ISO 11885; E22	EN ISO 10304-1; D20	EN ISO 11885; E22	DIN 38409-6; H6	DIN 38409-7; H7
LC0057	N160A			EN ISO 14911;	EN ISO 10304-1;		EN ISO 14911;	
LC0058	N160A	DIN 38409-7;	EN ISO 17294-2;	EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878;	calculated;	calculated;
LC0059	N160A	DIN 38409-6; H6	EN ISO 11885; ICP-OES	EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878;	DIN 38409-6; H6	DIN 38409-6; H6
LC0060	N160A	EN ISO 9963-1; volumetry		EN ISO 14911; IC	EN ISO 10304-1; IC	EN ISO 6878; UV, oxidising digestion	DIN 38409-6; H6	EN ISO 9963-1; calculated from volumetry
LC0061	N160A	DIN 38409-7;	EN ISO 17294-2;	EN ISO 10304-1; EN ISO 14911	EN ISO 10304-1; EN ISO 14911	EN ISO 6878;	calculated;	calculated;
LC0062	N160A			EN ISO 11885; ICP-OES	ISO 9297; mohr's method		DIN 38409-6; calculated	

LabCode	Sample	Alkalinity Ks 4,3	Boron	Calcium	Chloride	Total-P (as PO4)	Total hardness	Hydrogen carbonate
LC0063	N160A	DIN 38409-7; H7	EN ISO 11885; E22	EN ISO 11885; E22	EN ISO 10304-1; D20	EN ISO 11885; E22	DIN 38409-7; H7	DIN 38409-7; H7
LC0064	N160A	EN ISO 9963-1;			DIN 38405-1;		DIN 38406-3;	
LC0065	N160A	DIN 38409-7;		DIN 38406-3;	DIN 38405-1;	LCK 349; Hach	DIN 38406-3;	
LC0066	N160A	DIN 38409-7;	EN ISO 17294-2;	EN ISO 17294-2;	EN ISO 10304-1;	EN ISO 6878;	EN ISO 17294-2;	DIN 38409-7;
LC0067	N160A	calculated;		IC; APAT CNR IRSA 3030	IC; APAT CNR IRSA 4020	photometry; APAT CNR IRSA 4110 A2	calculated; APAT CNR IRSA 2040 A	titration; APAT CNR IRSA 2010 B
LC0068	N160A	DIN 38409-7; H7	EN ISO 17294-1;	EN ISO 11885;	EN ISO 10304-1;	EN ISO 11885;	DIN 38409-6; H6	DIN 38409-7; H7
LC0069	N160A		EN ISO 11885; ICP-OES	EN ISO 11885; ICP-OES	EN ISO 10304-1; IC	EN ISO 6878; photometry		
LC0070	N160A	DIN 38409 H7;				EN ISO 15681-2;		
LC0071	N160A		EN ISO 11885;	EN ISO 11885;		EN ISO 6878;	housemethod; QVA-Z09-20-00	
LC0072	N160A	DIN 38409-7; H7	EN ISO 11885; E22	EN ISO 11885; E22	EN ISO 10304-1; D20	EN ISO 6878; D11		
LC0073	N160A	DIN 38409-7; H7	EN ISO 11885;	EN ISO 11885;	EN ISO 10304-1;	EN ISO 6878;	DIN 38409-6; H6	DIN 38409-7; H7
LC0074	N160A					EN ISO 6878; D11		
LC0075	N160A	DIN 38409-7; H7	EN ISO 11885;	EN ISO 11885;	EN ISO 10304-1; D20	EN ISO 11885;	calculated;	calculated;
LC0076	N160A	DIN 38409-7; H7		EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878; section 4	EN ISO 14911; IC	
LC0077	N160A							
LC0078	N160A							
LC0079	N160A	EN ISO 9963-1;	EN ISO 11885;	ISO 6058;	ISO 9297;	EN ISO 6878;	ISO 6059;	EN ISO 9963-1;
LC0080	N160A		EN ISO 17294;	EN ISO 17294;	EN ISO 10304-1;	EN ISO 17294;	EN ISO 17294;	EN ISO 9963-1;
LC0081	N160A			titrimetry; Guide chem. surface water analysis (Trilon B)	ISO 9297;	EN ISO 6878;	titrimetry; Guide chem. surface water analysis (Trilon B)	titration; Guide chem. surface water analysis (titration with HCl)
LC0082	N160A							

LabCode	Sample	Potassium	El. conductivity (25°C)	Magnesium	Sodium	Ammonium (as NH4)	Nitrite (as NO2)
LC0001	N160A		DIN 38404 C8; conductometry			EN ISO 11732; E23; FIA	EN ISO 13395; FIA; D28
LC0002	N160A	EN ISO 14911; IC; UV	EN 27888;	EN ISO 14911; IC; UV	EN ISO 14911; IC; UV	DIN 38406-5;	EN ISO 10304-1; IC; UV
LC0003	N160A		EN 27888; C8				
LC0004	N160A						
LC0005	N160A	EN ISO 14911;	EN 27888;	EN ISO 11885;	EN ISO 14911;	EN ISO 14911;	EN ISO 10304-1;
LC0006	N160A	EN ISO 11885; E22	EN 27888;	EN ISO 11885; E22	EN ISO 11885; E22	ISO 7150-1;	EN ISO 13395;
LC0007	N160A		EN 27888;			EN ISO 11732;	EN ISO 11732;
LC0008	N160A		EN 27888;				
LC0009	N160A	EN ISO 11885;	EN 27888;	EN ISO 11885;	EN ISO 11885;	ISO 15923-1;	ISO 15923-1;
LC0010	N160A						
LC0011	N160A						
LC0012	N160A		conductometry ;	photometry; Hach Lange			
LC0013	N160A					ISO 7150-1;	
LC0014	N160A	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	DIN 38406;	EN 26777;
LC0015	N160A		conductometry;			UV-VIS;	UV-VIS;
LC0016	N160A		physically;			photometry;	photometry;
LC0017	N160A		EN 27888;	DIN 38406-3; ÖN M6261; ÖN M 6268		DIN 38406-5; ISO 7150-1	EN 26777;
LC0018	N160A	IC; APAT CNR IRSA 3030	conductivity ; ISS.BDA.022	IC; APAT CNR IRSA 3030	IC; APAT CNR IRSA 3030	photometry; APAT CNR IRSA 4030 A1	photometry; APAT CNR IRSA 4050
LC0019	N160A	EN ISO 11885;	EN 27888;	DIN 38409-7;	EN ISO 11885;	DIN 38406-5;	EN 26777;
LC0020	N160A	EN ISO 11885; ICP-OES	EN 27888; conductometry	EN ISO 11885; ICP-OES	EN ISO 11885; ICP-OES		EN ISO 10304-1; IC
LC0021	N160A	EN ISO 17294-2; E29	EN 27888; C8	EN ISO 17294-2; E29	EN ISO 17294-2; E29	ISO 15923-1; D49	ISO 15923-1; D49

LabCode	Sample	Potassium	El. conductivity (25°C)	Magnesium	Sodium	Ammonium (as NH ₄)	Nitrite (as NO ₂)
LC0022	N160A		EN 27888; C8			DIN 38406-5; E5	EN 26777;
LC0023	N160A	IC; SOP5003	Potentiometry; SOP5015	titration; SOP5005	IC; SOP5003	photometry; SOP5009	photometry; SOP5010
LC0024	N160A	EN ISO 14911;	EN 27888;	EN ISO 11885;	EN ISO 14911;	ISO 15923-1;	EN ISO 10304-1;
LC0025	N160A	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	EN ISO 11732;	EN ISO 13395;
LC0026	N160A	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	DIN 38406-5; E5	EN 26777;
LC0027	N160A		EN 27888; C8			DIN 38406-5; E5; photometry (cuvette test)	EN 26777; D10; photometry (cuvette test)
LC0028	N160A	IC;	pH meter;	IC;	IC;	IC;	IC;
LC0029	N160A		EN 27888;				
LC0030	N160A	EN ISO 17294-1;	EN 27888;	EN ISO 17294-1;	EN ISO 17294-1;	ISO 15923-1;	ISO 15923-1;
LC0031	N160A	EN ISO 11885;	EN 27888;	EN ISO 11885;	EN ISO 11885;	EN ISO 13395;	EN 26777;
LC0032	N160A	ICP-OES;	EN 27888; conductivity measuring cell	ICP-OES;	ICP-OES;	FIA; photometry	FIA; photometry
LC0033	N160A		EN 27888;				EN 26777;
LC0034	N160A	EN ISO 17294-2;	EN 27888;	EN ISO 17294-2;	EN ISO 17294-2;	DIN 38406-5;	EN ISO 10304-1;
LC0035	N160A	EN ISO 14911; E34	EN 27888; C8	EN ISO 14911; E34	EN ISO 14911; E34	EN ISO 14911; E34	EN ISO 10304-1; D20
LC0036	N160A	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	EN ISO 11732;	EN ISO 13395;
LC0037	N160A						
LC0038	N160A	ISO 9964-3;	EN 27888;	EN ISO 11885;	ISO 9964-3;	EN ISO 11732;	EN ISO 13395;
LC0039	N160A	EN ISO 17294-1;	EN 27888;	EN ISO 17294-1;	EN ISO 17294-1;	ISO 7150-1;	EN 26777;
LC0040	N160A	EN ISO 17294-2; ICP-MS	EN 27888;	EN ISO 17294-2; ICP-MS	EN ISO 17294-2; ICP-MS	EN ISO 11732; CFA	EN ISO 13395; CFA
LC0041	N160A	EN ISO 14911; modified; IC	ISO 7888; conductometry	EN ISO 14911; modified; IC	EN ISO 14911; modified; IC	ISO 7150-1; modified; photometry	ISO 6777; modified, photometry

LabCode	Sample	Potassium	El. conductivity (25°C)	Magnesium	Sodium	Ammonium (as NH4)	Nitrite (as NO2)
LC0042	N160A	ICP-OES;	conductometry ;	ICP-OES;	ICP-OES;	UV-VIS;	UV-VIS;
LC0043	N160A		EN 27888; C8				
LC0044	N160A	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	DIN 38406-5;	EN 26777;
LC0045	N160A	EN ISO 17294-2;	EN 27888;	EN ISO 17294-2;	EN ISO 17294-2;	EN ISO 11732;	EN ISO 13395;
LC0046	N160A	EN ISO 17294;	EN 27888;	EN ISO 17294;	EN ISO 17294;	DIN 38406-5; E5	EN 26777;
LC0047	N160A	EN ISO 11885;	EN 27888; C8	EN ISO 11885;	EN ISO 11885;	cuvette test; Hach	
LC0048	N160A						EN 26777;
LC0049	N160A	EN ISO 11885; ICP-OES	EN 27888; conductometry	EN ISO 11885; ICP-OES	EN ISO 11885; ICP-OES		EN ISO 13395; CFA
LC0050	N160A	IC;	conductometry;	IC;	IC;	photometry;	photometry;
LC0051	N160A	EN ISO 17294-2;	EN 27888;	EN ISO 17294-2;	EN ISO 17294-2;	DIN 38406-5; E5-1	ISO 10304;
LC0052	N160A	IC; APAT CNR IRSA 3030	EPA 120.1;	IC; APAT CNR IRSA 3030	IC; APAT CNR IRSA 3030	ISO 15923;	ISO 15923;
LC0053	N160A	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	ISO 15923-1;	ISO 15923;
LC0054	N160A		EN 27888; C8	DIN 38406-3; E3			
LC0055	N160A	IC;		IC;	IC;		
LC0056	N160A	EN ISO 11885; E22	EN 27888; C8	EN ISO 11885; E22	EN ISO 11885; E22	DIN 38406-5; E5	EN 26777; D10
LC0057	N160A	EN ISO 14911;		EN ISO 14911;	EN ISO 14911;		
LC0058	N160A	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	ISO 7150-1;	EN 26777;
LC0059	N160A	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	DIN 38406-5;	EN 26777;
LC0060	N160A	EN ISO 14911; IC	EN 27888;	EN ISO 14911; IC	EN ISO 14911; IC	ISO 7150-1; UV	EN 26777; UV
LC0061	N160A	EN ISO 10304-1; EN ISO 14911	EN 27888; M6616	EN ISO 10304-1; EN ISO 14911	EN ISO 10304-1; EN ISO 14911	ISO 7150-1;	EN 26777;
LC0062	N160A	ICP-OES; (EN 480)	EN 27888;	EN ISO 11885; ICP-OES	ICP-OES; (EN 480)	ISO 7150-1; photometry	EN 26777; photometry

LabCode	Sample	Potassium	El. conductivity (25°C)	Magnesium	Sodium	Ammonium (as NH4)	Nitrite (as NO2)
LC0063	N160A	EN ISO 11885; E22	EN 27888; C8	EN ISO 11885; E22	EN ISO 11885; E22	DIN 38406-5; E5	EN 26777; DEV D10
LC0064	N160A		EN 27888;				reflectoquant;
LC0065	N160A	ISO 9964-3;	EN 27888;	DIN 38406-3;	ISO 9964-3;	DIN 38406-5; (chapter 1)	EN 26777;
LC0066	N160A	EN ISO 17294-2;	EN 27888;	EN ISO 17294-2;	EN ISO 17294-2;	ISO 7150-1;	EN 26777;
LC0067	N160A	IC; APAT CNR IRSA 3030	conductivity ; ISS.BDA.022	IC; APAT CNR IRSA 3030	IC; APAT CNR IRSA 3030	ISO 15923;	photometry; APAT CNR IRSA 4050
LC0068	N160A	EN ISO 11885;	EN 27888;	EN ISO 11885;	EN ISO 11885;	cuvette test; LCK 304	EN ISO 10304-1;
LC0069	N160A	EN ISO 11885; ICP-OES	EN 27888;	EN ISO 11885; ICP-OES	EN ISO 11885; ICP-OES	DIN 38406-5; E5-1 (photometry)	EN 26777; photometry
LC0070	N160A		EN 27888; C8			ISO 15923-1;	
LC0071	N160A	EN ISO 11885;	EN 27888;	EN ISO 11885;	EN ISO 11885;		
LC0072	N160A	EN ISO 11885; E22	EN 27888; C8	EN ISO 11885; E22	EN ISO 11885; E22	DIN 38406-5; E5	EN 26777; D10
LC0073	N160A	EN ISO 11885;	EN 27888;	EN ISO 11885;	EN ISO 11885;	EN ISO 11732;	EN ISO 13395;
LC0074	N160A						
LC0075	N160A	EN ISO 11885;	EN 27888; C8	EN ISO 11885;	EN ISO 11885;	DIN 38406-5; (chapter 1)	EN ISO 10304-1; D20
LC0076	N160A	EN ISO 14911;	EN 27888; C8	EN ISO 14911;	EN ISO 14911;	EN ISO 11732;	EN 26777;
LC0077	N160A	AAS; HM-AAS-001		AAS; HM-AAS-001	AAS; HM-AAS-001		
LC0078	N160A		housemethod (SOP); SOP pH and conductivity				
LC0079	N160A	EN ISO 11885;	ISO 7888;	ISO 6058;	EN ISO 11885;	ISO 5664;	ISO 6777;
LC0080	N160A	EN ISO 17294;	ISO 7888;	EN ISO 17294;	EN ISO 17294;	ISO 7150-1;	ISO 6777;
LC0081	N160A	photometry; Guide chem. surface water analysis (flame photometer)	conductivity ; Guide chem. surface water analysis	calculated; Guide chem. surface water analysis (difference total hardness and Ca)	photometry; Guide chem. surface water analysis (flame photometer)	ISO 7150-1;	spectrophotometric; Guide chem. surface water analysis (spectrophotometric analysis using Griess reagent)
LC0082	N160A						

LabCode	Sample	Nitrate (as NO3)	Orthophosphate (as PO4)	Sulfate (as SO4)	pH-value	Total nitrogen	DOC (as C) (Sample N160ADOC)
LC0001	N160A	EN ISO 10304-1; D20; IC	EN ISO 15681-1; D45; FIA	EN ISO 10304-1; D20; IC	DIN 38404 C5; potentiometry	IC (Oxisolv);	EN 1484; H3; catalytic combustion; NDIR
LC0002	N160A	EN ISO 10304-1; IC; UV	EN ISO 6878;	EN ISO 10304-1; IC; UV	EN ISO 10523;		
LC0003	N160A				EN ISO 10523; C5		EN 1484; H3; TOC
LC0004	N160A					EN 12260;	
LC0005	N160A	EN ISO 10304-1;		EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0006	N160A	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;	EN ISO 11905-1; H36	EN 1484;
LC0007	N160A	EN ISO 10304-1;	EN ISO 11732;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0008	N160A				EN ISO 10523;		
LC0009	N160A	EN ISO 10304;	ISO 15923-1;	EN ISO 10304;	EN ISO 10523;	EN ISO 11905;	EN 1484;
LC0010	N160A						
LC0011	N160A					EN 12260;	EN 1484;
LC0012	N160A	photometry; Hach Lange		photometry; Hach Lange	EN ISO 10523; potentiometry		
LC0013	N160A		EN ISO 6878;				
LC0014	N160A	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	DIN 38404;	EN ISO 11905-1;	EN 1484;
LC0015	N160A	UV-VIS;	UV-VIS;		potentiometry;		
LC0016	N160A	photometry;	photometry;	IC;	physically;	photometry;	EN 1484;
LC0017	N160A	EN ISO 10304-1;	EN ISO 6878; section 4	EN ISO 10304-1;	EN ISO 10523; DIN 19268		
LC0018	N160A	IC; APAT CNR IRSA 4020	EN ISO 6878;	IC; APAT CNR IRSA 4020	potentiometry; APAT CNR IRSA 2060	photometry (oxidation); APAT CNR IRSA 4060	EN 1484;
LC0019	N160A		EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;		EN 1484;
LC0020	N160A	EN ISO 10304-1; IC	EN ISO 15681-2; CFA	EN ISO 10304-1; IC	ISO 10390;	EN 12260;	EN 1484;
LC0021	N160A	ISO 15923-1; D49	ISO 15923-1; D49	ISO 15923-1; D49	EN ISO 10523; C5		EN 1484; H3

LabCode	Sample	Nitrate (as NO ₃)	Orthophosphate (as PO ₄)	Sulfate (as SO ₄)	pH-value	Total nitrogen	DOC (as C) (Sample N160ADOC)
LC0022	N160A	DIN 38405-29; D29	EN ISO 6878; D11		EN ISO 10523; C5		EN 1484; H3
LC0023	N160A	IC; SOP5166	spectrophotometric; SOP5011	IC; SOP5166	Potentiometry; SOP5007		NPOC; SOP5013
LC0024	N160A	EN ISO 10304-1;	ISO 15923-1;	EN ISO 10304-1;	EN ISO 10523;		EN 1484;
LC0025	N160A	EN ISO 10304-1;	EN ISO 15681-2;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0026	N160A	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;	oxidation (CLD);	EN 1484;
LC0027	N160A	DIN 38405-9; D9; photometry (cuvette test)	EN ISO 6878; photometry		EN ISO 10523; C5		EN 1484; H3
LC0028	N160A	IC;	IC;	IC;	pH meter;		multi N/C;
LC0029	N160A				EN ISO 10523;		
LC0030	N160A	ISO 15923-1;	ISO 15923-1;	ISO 15923-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0031	N160A	EN ISO 13395;	EN ISO 15681-1;	EN ISO 10304-1;	DIN 38404;	ISO 11261;	
LC0032	N160A	IC;	FIA; photometry	IC;	EN ISO 10523; potentiometric	Combustion; chemoluminescence	Combustion; CO ₂ -detection
LC0033	N160A				EN ISO 10523;		
LC0034	N160A	EN ISO 10304-1;	EN ISO 10304-1;	EN ISO 10304-1;	EN ISO 10523;	ISO 5663;	
LC0035	N160A	EN ISO 10304-1; D20		EN ISO 10304-1; D20	EN ISO 10523; C5		EN 1484; H3
LC0036	N160A	EN ISO 10304-1;	EN ISO 15681-2;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0037	N160A						
LC0038	N160A	EN ISO 13395;	EN ISO 15681-2;	ISO 22743;	EN ISO 10523;		EN 1484;
LC0039	N160A	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;		EN 1484;
LC0040	N160A	EN ISO 10304-1; IC	EN ISO 15681-2; CFA	EN ISO 10304-1; IC	EN ISO 10523;	EN 12260;	EN 1484;
LC0041	N160A	EN ISO 10304-1; modified; IC	EN ISO 6878; modified, photometry	EN ISO 10304-1; modified; IC	EN ISO 10523; pH meter		

LabCode	Sample	Nitrate (as NO3)	Orthophosphate (as PO4)	Sulfate (as SO4)	pH-value	Total nitrogen	DOC (as C) (Sample N160ADOC)
LC0042	N160A	IC;		IC;	potentiometry;		
LC0043	N160A				EN ISO 10523; C5		
LC0044	N160A	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0045	N160A	EN ISO 10304-1;	EN ISO 15681-2;	EN ISO 10304-1;	EN ISO 10523;	EN ISO 11905-1;	EN 1484;
LC0046	N160A	DIN 38405-9; D9	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;	DEV H12;	EN 1484;
LC0047	N160A	EN ISO 10304-1; D20	cuvette test; Hach	EN ISO 10304-1; D20	EN ISO 10523; C5		
LC0048	N160A		EN ISO 6878;				EN 1484;
LC0049	N160A	EN ISO 10304-1; IC		EN ISO 10304-1; IC	EN ISO 10523; electrochemical method	EN 12260;	EN 1484;
LC0050	N160A	IC;	photometry;	IC;	potentiometry;	TOC-TN-analyzer;	TOC-TN-analyzer;
LC0051	N160A	ISO 10304;	ISO 10304;	ISO 10304;	DIN 38404-5;		EN 1484;
LC0052	N160A	IC; APAT CNR IRSA 4020	FIA ; FIA Flow injection Analysis; APHA Standard Methods 23rd 4500-P G	IC; APAT CNR IRSA 3030	potentiometry; APAT CNR IRSA 2060	photometry (oxidation); APAT CNR IRSA 4060	HTO/IR; APAT CNR IRSA 2040 A; APAT CNR IRSA 5040 (HTO high-temperature oxidation; IR)
LC0053	N160A	EN ISO 10304-1;	ISO 15923;	EN ISO 10304-1;	EN ISO 10523;	EN 12260; H34	EN 1484; H3
LC0054	N160A	EN ISO 10304-1; D20		EN ISO 10304-1; D20	EN ISO 10523; C5		
LC0055	N160A	EN ISO 10304-1; D20		EN ISO 10304-1; D20			EN 1484; H3
LC0056	N160A	EN ISO 10304-1; D20	EN ISO 10304-1; D20	EN ISO 10304-1; D20	EN ISO 10523; C5	EN 12260;	EN 1484;
LC0057	N160A	EN ISO 10304-1;		EN ISO 10304-1;			
LC0058	N160A	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0059	N160A	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	DIN 38409-6; H6		EN 1484;
LC0060	N160A	EN ISO 10304-1; IC	EN ISO 6878; UV	EN ISO 10304-1; IC	EN ISO 10523;		EN 1484;
LC0061	N160A	EN ISO 10304-1; EN ISO 14911	EN ISO 6878;	EN ISO 10304-1; EN ISO 14911	EN ISO 10523;		EN 1484;
LC0062	N160A	photometry; Spectroquant	EN ISO 6878; photometry		EN ISO 10523;		

LabCode	Sample	Nitrate (as NO3)	Orthophosphate (as PO4)	Sulfate (as SO4)	pH-value	Total nitrogen	DOC (as C) (Sample N160ADOC)
LC0063	N160A	EN ISO 10304-1; D20	EN ISO 10304-1; D20	EN ISO 10304-1; D20	EN ISO 10523; C5		
LC0064	N160A	reflectoquant;			DIN 51369;		
LC0065	N160A	DIN 38405-9;		DIN 38405-5;	EN ISO 10523;		
LC0066	N160A	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484; thermal catalytic oxidation
LC0067	N160A	IC; APAT CNR IRSA 4020	photometry; APAT CNR IRSA 4110 A1	IC; APAT CNR IRSA 4020	potentiometry; ISS.BCA.023	EN 12260;	EN 1484;
LC0068	N160A	EN ISO 10304-1;	cuvette test; LCK 349	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0069	N160A	EN ISO 10304-1; IC	EN ISO 6878; photometry	EN ISO 10304-1; IC	EN ISO 10523;		
LC0070	N160A		ISO 15923-1;		EN ISO 10523;		
LC0071	N160A				EN ISO 10523;		EN 1484;
LC0072	N160A	EN ISO 10304-1; D20	EN ISO 6878; D11	EN ISO 10304-1; D20	EN 27888; C8		EN 1484; H3
LC0073	N160A	EN ISO 10304-1;	EN ISO 15681-2;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0074	N160A		EN ISO 6878; D11				
LC0075	N160A	EN ISO 10304-1; D20	EN ISO 10304-1; D20	EN ISO 10304-1; D20	EN ISO 10523;	DIN 38409-28;	EN 1484; H3
LC0076	N160A	EN ISO 10304-1;		EN ISO 10304-1;	EN ISO 10523;	EN 12260;	
LC0077	N160A						
LC0078	N160A				housemethod (SOP); SOP pH and conductivity		
LC0079	N160A	ISO 7890-3;	EN ISO 6878;	ISO 9280;	EN ISO 10523;	calculated;	EPA 415.3;
LC0080	N160A	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;		
LC0081	N160A	ISO 7890-3;	EN ISO 6878;	turbidimetry; Guide chem. surface water analysis (BaCl2)	EN ISO 10523;		
LC0082	N160A						

LabCode	Sample	Alkalinity Ks 4,3	Boron	Calcium	Chloride	Total-P (as PO4)	Total hardness	Hydrogen carbonate
LC0001	N160B				EN ISO 10304-1; D20; IC	FIA (Oxisolv);		
LC0002	N160B	DIN 38409-7;		EN ISO 14911; IC; UV	EN ISO 10304-1; IC; UV	EN ISO 6878 (µW-dig.); microwave assisted digestion (µW-dig.); oxidising decomposition reagent	EN ISO 14911;	DIN 38409-7;
LC0003	N160B	EN ISO 10523; C5						
LC0004	N160B							
LC0005	N160B	titration; standard methods (water and wastewater 2320B)		EN ISO 11885;	EN ISO 10304-1;		calculated; standard methods (water and wastewater 2340B)	titration; standard methods (water and wastewater 2320B)
LC0006	N160B	DIN 38409-7;	EN ISO 11885; E22	EN ISO 11885; E22	EN ISO 10304-1;	EN ISO 6878;	DIN 38409-6;	DIN 38409-7; DEV D8
LC0007	N160B	DIN 38409-7;			EN ISO 10304-1;			
LC0008	N160B							
LC0009	N160B	DIN 38409-7;	EN ISO 11885;	EN ISO 11885;	EN ISO 10304;	ISO 15923-1;	calculated;	DIN 38409-7;
LC0010	N160B							
LC0011	N160B							
LC0012	N160B			photometry; Hach Lange	photometry; Hach Lange		photometry; Hach Lange	
LC0013	N160B					EN ISO 6878;		
LC0014	N160B	DIN 38409-7;		EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878;	DIN 38409;	DIN 38409-7;
LC0015	N160B	titrimetry;			titrimetry;	UV-VIS;		titrimetry;
LC0016	N160B				IC;	photometry;		
LC0017	N160B		DIN 38405-17; ÖN M6606	DIN 38406-3; (ÖN B 6261); ÖN M6268	EN ISO 10304-1;		DIN 38409-6; H6	
LC0018	N160B	titration; APAT CNR IRSA 2010 B	EN ISO 17294-2;	IC; APAT CNR IRSA 3030	IC; APAT CNR IRSA 4020	photometry (oxidation); APAT CNR IRSA 4060	titrimetry; ISS.BEC.031	titration; APAT CNR IRSA 2010 B
LC0019	N160B	DIN 38409-7;		EN ISO 11885;	EN ISO 10304-1;	EN ISO 6878;		DIN 38409-7;
LC0020	N160B	EN ISO 9963-1; titration	EN ISO 11885; ICP-OES	EN ISO 11885; ICP-OES	EN ISO 10304-1; IC	EN ISO 6878; digestion with peroxodisulphate and photometry		
LC0021	N160B	DIN 38409-7; H7	EN ISO 17294-2; E29	EN ISO 17294-2; E29	ISO 15923-1; D49	EN ISO 6878; D11	calculated;	calculated;

LabCode	Sample	Alkalinity Ks 4,3	Boron	Calcium	Chloride	Total-P (as PO4)	Total hardness	Hydrogen carbonate
LC0022	N160B	DIN 38409-7; H7				EN ISO 6878; D11		
LC0023	N160B	titration; SOP5306		titration; SOP5005	IC; SOP5166	spectrophotometric; SOP5097	titration; SOP5307	titration;
LC0024	N160B	DIN 38409-7; H7	EN ISO 11885;	EN ISO 11885;	EN ISO 10304-1;	EN ISO 11885;	DIN 38409-6;	
LC0025	N160B	DIN 38409-7;	EN ISO 17294-2;	EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878;	DIN 38409-6; H6	DIN 38409-7;
LC0026	N160B	EN ISO 9963-1;		EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878;	DIN 38409;	EN ISO 9963-1;
LC0027	N160B	DIN 38409-7; H7; titration				EN ISO 6878; photometry		DIN 38409-7; H7; calculated
LC0028	N160B			IC;	IC;	spectrophotometric;		titration;
LC0029	N160B				ISO 9297;	EN ISO 6878; UV-VIS;		
LC0030	N160B	DIN 38409-7;	EN ISO 17294-1;	EN ISO 17294-1;	ISO 15923-1;	EN ISO 6878;	calculated;	calculated;
LC0031	N160B	DIN 38409;	EN ISO 11885;	EN ISO 11885;	EN ISO 10304-1;	EN ISO 11885;	DIN 38409-6;	DIN 38409;
LC0032	N160B	Titration;	ICP-OES;	ICP-OES;	IC;	FIA; photometry	Titration;	Titration;
LC0033	N160B	DIN 38409-7;						calculated;
LC0034	N160B	DIN 38409-7;	EN ISO 17294-2;	EN ISO 17294-2;	EN ISO 10304-1;		DIN 38409-6; H6	DIN 38409-7;
LC0035	N160B	DIN 38409-7; H7	EN ISO 17294-2; E29	EN ISO 14911; E34	EN ISO 10304-1; D20	ICP-MS;	calculated;	calculated;
LC0036	N160B	DIN 38409-7;	EN ISO 11885;	EN ISO 14911;	EN ISO 10304-1;	EN ISO 15681-2;	EN ISO 14911;	DIN 38409-7;
LC0037	N160B					EN 1189 (D11);		
LC0038	N160B			EN ISO 11885;	EN ISO 15682;			
LC0039	N160B	EN ISO 9963-1;	EN ISO 17294-1;	EN ISO 17294-1;	EN ISO 10304-1;	EN ISO 6878;	calculated;	calculated;
LC0040	N160B	EN ISO 9963-1; titration	EN ISO 17294-2; ICP-MS	EN ISO 17294-2; ICP-MS	EN ISO 10304-1; IC	EN ISO 15681-2; CFA	EN ISO 17294-2; ICP-MS	EN ISO 9963-1; titration
LC0041	N160B	EN ISO 9963-1; modified, titrimetry		EN ISO 14911; modified; IC	EN ISO 10304-1; modified; IC		IC;	EN ISO 9963-1; titrimetry

LabCode	Sample	Alkalinity Ks 4,3	Boron	Calcium	Chloride	Total-P (as PO4)	Total hardness	Hydrogen carbonate
LC0042	N160B	titrimetry;		ICP-OES;	IC;	ICP-OES;	titrimetry;	titrimetry;
LC0043	N160B	DIN 38409-7;						
LC0044	N160B	EN ISO 9963-1;	EN ISO 17294-2;	EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878;	EN ISO 14911;	EN ISO 9963-1;
LC0045	N160B	DIN 38409-7;	EN ISO 17294-2;	EN ISO 17294-2;	EN ISO 10304-1;	EN ISO 15681-2;	EN ISO 17294-2;	DIN 38409-7;
LC0046	N160B	DIN 38409-7; H7	EN ISO 17294;	EN ISO 17294;	DIN 38405-1; D1	EN ISO 17294;	DIN 38409-6; H6	DIN 38409-7; H7
LC0047	N160B	DIN 38409-7; H7		EN ISO 11885;	EN ISO 10304-1; D20	EN ISO 11885;	DEV E3 ; (DIN 38405-3)	
LC0048	N160B					EN ISO 6878;		
LC0049	N160B	DIN 38409-7; titrimetry	EN ISO 11885; ICP-OES	EN ISO 11885; ICP-OES	EN ISO 10304-1; IC	EN ISO 15681-2; CFA		
LC0050	N160B	titrimetry;		IC;	IC;	photometry;	calculated; (Ca+Mg)	
LC0051	N160B	DIN 38409-7; H7	EN ISO 17294-2;	EN ISO 17294-2;	ISO 10304;	EN ISO 17294-2;	DIN 38409-6; H6	DEV D8; (DIN 38405)
LC0052	N160B	titration; APAT CNR IRSA 2010 B	EN ISO 11885;	IC; APAT CNR IRSA 3030	IC; APAT CNR IRSA 3030	photometry (oxidation); APAT CNR IRSA 4060	calculated; APAT CNR IRSA 2040 A; APAT CNR IRSA 3030 (IC)	titration; APAT CNR IRSA 2010 B
LC0053	N160B	DIN 38409-7; H7	EN ISO 17294-2; E29	EN ISO 14911;	EN ISO 10304-1;	EN ISO 11885; E22	EN ISO 14911;	DIN 38409-7; H7
LC0054	N160B	DIN 38409-7; H7		DIN 38406-3; E3	EN ISO 10304-1; D20		DIN 38406-3; E3	
LC0055	N160B			IC;	IC;			
LC0056	N160B	DIN 38409-7; H7	EN ISO 11885; E22	EN ISO 11885; E22	EN ISO 10304-1; D20	EN ISO 11885; E22	DIN 38409-6; H6	DIN 38409-7; H7
LC0057	N160B			EN ISO 14911;	EN ISO 10304-1;		EN ISO 14911;	
LC0058	N160B	DIN 38409-7;	EN ISO 17294-2;	EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878;	calculated;	calculated;
LC0059	N160B	DIN 38409-6; H6	EN ISO 11885; ICP-OES	EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878;	DIN 38409-6; H6	DIN 38409-6; H6
LC0060	N160B	EN ISO 9963-1; volumetry		EN ISO 14911; IC	EN ISO 10304-1; IC	EN ISO 6878; UV, oxidising digestion	DIN 38409-6; H6	EN ISO 9963-1; calculated from volumetry
LC0061	N160B	DIN 38409-7;	EN ISO 17294-2;	EN ISO 10304-1; EN ISO 14911	EN ISO 10304-1; EN ISO 14911	EN ISO 6878;	calculated;	calculated;
LC0062	N160B			EN ISO 11885; ICP-OES	ISO 9297; mohr's method		DIN 38409-6; calculated	

LabCode	Sample	Alkalinity Ks 4,3	Boron	Calcium	Chloride	Total-P (as PO4)	Total hardness	Hydrogen carbonate
LC0063	N160B	DIN 38409-7; H7	EN ISO 11885; E22	EN ISO 11885; E22	EN ISO 10304-1; D20	EN ISO 11885; E22	DIN 38409-7; H7	DIN 38409-7; H7
LC0064	N160B	EN ISO 9963-1;			DIN 38405-1;		DIN 38406-3;	
LC0065	N160B	DIN 38409-7;		DIN 38406-3;	DIN 38405-1;	LCK 349; Hach	DIN 38406-3;	
LC0066	N160B	DIN 38409-7;	EN ISO 17294-2;	EN ISO 17294-2;	EN ISO 10304-1;	EN ISO 6878;	EN ISO 17294-2;	DIN 38409-7;
LC0067	N160B	calculated;		IC; APAT CNR IRSA 3030	IC; APAT CNR IRSA 4020	photometry; APAT CNR IRSA 4110 A2	calculated; APAT CNR IRSA 2040 A	titration; APAT CNR IRSA 2010 B
LC0068	N160B	DIN 38409-7; H7	EN ISO 17294-1;	EN ISO 11885;	EN ISO 10304-1;	EN ISO 11885;	DIN 38409-6; H6	DIN 38409-7; H7
LC0069	N160B		EN ISO 11885; ICP-OES	EN ISO 11885; ICP-OES	EN ISO 10304-1; IC	EN ISO 6878; photometry		
LC0070	N160B	DIN 38409 H7;				EN ISO 15681-2;		
LC0071	N160B		EN ISO 11885;	EN ISO 11885;		EN ISO 6878;	housemethod; QVA-Z09-20-00	
LC0072	N160B	DIN 38409-7; H7	EN ISO 11885; E22	EN ISO 11885; E22	EN ISO 10304-1; D20	EN ISO 6878; D11		
LC0073	N160B	DIN 38409-7; H7	EN ISO 11885;	EN ISO 11885;	EN ISO 10304-1;	EN ISO 6878;	DIN 38409-6; H6	DIN 38409-7; H7
LC0074	N160B					EN ISO 6878; D11		
LC0075	N160B	DIN 38409-7; H7	EN ISO 11885;	EN ISO 11885;	EN ISO 10304-1; D20	EN ISO 11885;	calculated;	calculated;
LC0076	N160B	DIN 38409-7; H7		EN ISO 14911;	EN ISO 10304-1;	EN ISO 6878; section 4	EN ISO 14911; IC	
LC0077	N160B			AAS; HM-AAS-001				
LC0078	N160B							
LC0079	N160B	EN ISO 9963-1;	EN ISO 11885;	ISO 6058;	ISO 9297;	EN ISO 6878;	ISO 6059;	EN ISO 9963-1;
LC0080	N160B		EN ISO 17294;	EN ISO 17294;	EN ISO 10304-1;	EN ISO 17294;	EN ISO 17294;	EN ISO 9963-1;
LC0081	N160B			titrimetry; Guide chem. surface water analysis (Trilon B)	ISO 9297;	EN ISO 6878;	titrimetry; Guide chem. surface water analysis (Trilon B)	titration; Guide chem. surface water analysis (titration with HCl)
LC0082	N160B							

LabCode	Sample	Potassium	El. conductivity (25°C)	Magnesium	Sodium	Ammonium (as NH4)	Nitrite (as NO2)
LC0001	N160B		DIN 38404 C8; conductometry			EN ISO 11732; E23; FIA	EN ISO 13395; FIA; D28
LC0002	N160B	EN ISO 14911; IC; UV	EN 27888;	EN ISO 14911; IC; UV	EN ISO 14911; IC; UV	DIN 38406-5;	EN ISO 10304-1; IC; UV
LC0003	N160B		EN 27888; C8				
LC0004	N160B						
LC0005	N160B	EN ISO 14911;	EN 27888;	EN ISO 11885;	EN ISO 14911;	EN ISO 14911;	EN ISO 10304-1;
LC0006	N160B	EN ISO 11885; E22	EN 27888;	EN ISO 11885; E22	EN ISO 11885; E22	ISO 7150-1;	EN ISO 13395;
LC0007	N160B		EN 27888;			EN ISO 11732;	EN ISO 11732;
LC0008	N160B		EN 27888;				
LC0009	N160B	EN ISO 11885;	EN 27888;	EN ISO 11885;	EN ISO 11885;	ISO 15923-1;	ISO 15923-1;
LC0010	N160B						
LC0011	N160B						
LC0012	N160B		conductometry ;	photometry; Hach Lange			
LC0013	N160B					ISO 7150-1;	
LC0014	N160B	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	DIN 38406;	EN 26777;
LC0015	N160B		conductometry;			UV-VIS;	UV-VIS;
LC0016	N160B		physically;			photometry;	photometry;
LC0017	N160B		EN 27888;	DIN 38406-3; (ÖN B 6261); ÖN M6268		DIN 38406-5; ISO 7150-1	EN 26777;
LC0018	N160B	IC; APAT CNR IRSA 3030	conductivity ; ISS.BDA.022	IC; APAT CNR IRSA 3030	IC; APAT CNR IRSA 3030	photometry; APAT CNR IRSA 4030 A1	photometry; APAT CNR IRSA 4050
LC0019	N160B	EN ISO 11885;	EN 27888;	EN ISO 11885;	EN ISO 11885;	DIN 38406-5;	EN 26777;
LC0020	N160B	EN ISO 11885; ICP-OES	EN 27888; conductometry	EN ISO 11885; ICP-OES	EN ISO 11885; ICP-OES		EN ISO 10304-1; IC
LC0021	N160B	EN ISO 17294-2; E29	EN 27888; C8	EN ISO 17294-2; E29	EN ISO 17294-2; E29	ISO 15923-1; D49	ISO 15923-1; D49

LabCode	Sample	Potassium	El. conductivity (25°C)	Magnesium	Sodium	Ammonium (as NH ₄)	Nitrite (as NO ₂)
LC0022	N160B		EN 27888; C8			DIN 38406-5; E5	EN 26777;
LC0023	N160B	IC; SOP5003	Potentiometry; SOP5015	titration; SOP5005	IC; SOP5003	photometry; SOP5009	photometry; SOP5010
LC0024	N160B	EN ISO 14911;	EN 27888;	EN ISO 11885;	EN ISO 14911;	ISO 15923-1;	EN ISO 10304-1;
LC0025	N160B	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	EN ISO 11732;	EN ISO 13395;
LC0026	N160B	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	DIN 38406-5; E5	EN 26777;
LC0027	N160B		EN 27888; C8			DIN 38406-5; E5; photometry (cuvette test)	EN 26777; D10; photometry (cuvette test)
LC0028	N160B	IC;	pH meter;	IC;	IC;	IC;	IC;
LC0029	N160B		EN 27888;				
LC0030	N160B	EN ISO 17294-1;	EN 27888;	EN ISO 17294-1;	EN ISO 17294-1;	ISO 15923-1;	ISO 15923-1;
LC0031	N160B	EN ISO 11885;	EN 27888;	EN ISO 11885;	EN ISO 11885;	EN ISO 13395;	EN 26777;
LC0032	N160B	ICP-OES;	EN 27888; conductivity measuring cell	ICP-OES;	ICP-OES;	FIA; photometry	FIA; photometry
LC0033	N160B		EN 27888;				EN 26777;
LC0034	N160B	EN ISO 17294-2;	EN 27888;	EN ISO 17294-2;	EN ISO 17294-2;	DIN 38406-5;	EN ISO 10304-1;
LC0035	N160B	EN ISO 14911; E34	EN 27888; C8	EN ISO 14911; E34	EN ISO 14911; E34	EN ISO 14911; E34	EN ISO 10304-1; D20
LC0036	N160B	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	EN ISO 11732;	EN ISO 13395;
LC0037	N160B						
LC0038	N160B	ISO 9964-3;	EN 27888;	EN ISO 11885;	ISO 9964-3;	EN ISO 11732;	EN ISO 13395;
LC0039	N160B	EN ISO 17294-1;	EN 27888;	EN ISO 17294-1;	EN ISO 17294-1;	ISO 7150-1;	EN 26777;
LC0040	N160B	EN ISO 17294-2; ICP-MS	EN 27888;	EN ISO 17294-2; ICP-MS	EN ISO 17294-2; ICP-MS	EN ISO 11732; CFA	EN ISO 13395; CFA
LC0041	N160B	EN ISO 14911; modified; IC	ISO 7888; conductometry	EN ISO 14911; modified; IC	EN ISO 14911; modified; IC	ISO 7150-1; modified; photometry	ISO 6777; modified, photometry

LabCode	Sample	Potassium	El. conductivity (25°C)	Magnesium	Sodium	Ammonium (as NH4)	Nitrite (as NO2)
LC0042	N160B	ICP-OES;	conductometry ;	ICP-OES;	ICP-OES;	UV-VIS;	UV-VIS;
LC0043	N160B		EN 27888; C8				
LC0044	N160B	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	DIN 38406-5;	EN 26777;
LC0045	N160B	EN ISO 17294-2;	EN 27888;	EN ISO 17294-2;	EN ISO 17294-2;	EN ISO 11732;	EN ISO 13395;
LC0046	N160B	EN ISO 17294;	EN 27888;	EN ISO 17294;	EN ISO 17294;	DIN 38406-5; E5	EN 26777;
LC0047	N160B	EN ISO 11885;	EN 27888; C8	EN ISO 11885;	EN ISO 11885;	cuvette test; Hach	
LC0048	N160B						EN 26777;
LC0049	N160B	EN ISO 11885; ICP-OES	EN 27888; conductometry	EN ISO 11885; ICP-OES	EN ISO 11885; ICP-OES	EN ISO 11732; CFA	EN ISO 13395; CFA
LC0050	N160B	IC;	conductometry;	IC;	IC;	photometry;	photometry;
LC0051	N160B	EN ISO 17294-2;	EN 27888;	EN ISO 17294-2;	EN ISO 17294-2;	DIN 38406-5; E5-1	ISO 10304;
LC0052	N160B	IC; APAT CNR IRSA 3030	EPA 120.1;	IC; APAT CNR IRSA 3030	IC; APAT CNR IRSA 3030	ISO 15923;	ISO 15923;
LC0053	N160B	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	ISO 15923;	ISO 15923;
LC0054	N160B		EN 27888; C8	DIN 38406-3; E3			
LC0055	N160B	IC;		IC;	IC;		
LC0056	N160B	EN ISO 11885; E22	EN 27888; C8	EN ISO 11885; E22	EN ISO 11885; E22	DIN 38406-5; E5	EN 26777; D10
LC0057	N160B	EN ISO 14911;		EN ISO 14911;	EN ISO 14911;		
LC0058	N160B	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	ISO 7150-1;	EN 26777;
LC0059	N160B	EN ISO 14911;	EN 27888;	EN ISO 14911;	EN ISO 14911;	DIN 38406-5;	EN 26777;
LC0060	N160B	EN ISO 14911; IC	EN 27888;	EN ISO 14911; IC	EN ISO 14911; IC	ISO 7150-1; UV	EN 26777; UV
LC0061	N160B	EN ISO 10304-1; EN ISO 14911	EN 27888; M6616	EN ISO 10304-1; EN ISO 14911	EN ISO 10304-1; EN ISO 14911	ISO 7150-1;	EN 26777;
LC0062	N160B	ICP-OES; (EN 480)	EN 27888;	EN ISO 11885; ICP-OES	ICP-OES; (EN 480)	ISO 7150-1; photometry	EN 26777; photometry

LabCode	Sample	Potassium	El. conductivity (25°C)	Magnesium	Sodium	Ammonium (as NH ₄)	Nitrite (as NO ₂)
LC0063	N160B	EN ISO 11885; E22	EN 27888; C8	EN ISO 11885; E22	EN ISO 11885; E22	DIN 38406-5; E5	EN 26777; DEV D10
LC0064	N160B		EN 27888;				reflectoquant;
LC0065	N160B	ISO 9964-3;	EN 27888;	DIN 38406-3;	ISO 9964-3;	DIN 38406-5; (chapter 1)	EN 26777;
LC0066	N160B	EN ISO 17294-2;	EN 27888;	EN ISO 17294-2;	EN ISO 17294-2;	ISO 7150-1;	EN 26777;
LC0067	N160B	IC; APAT CNR IRSA 3030	conductivity ; ISS.BDA.022	IC; APAT CNR IRSA 3030	IC; APAT CNR IRSA 3030	ISO 15923;	photometry; APAT CNR IRSA 4050
LC0068	N160B	EN ISO 11885;	EN 27888;	EN ISO 11885;	EN ISO 11885;	cuvette test; LCK 304	EN ISO 10304-1;
LC0069	N160B	EN ISO 11885; ICP-OES	EN 27888;	EN ISO 11885; ICP-OES	EN ISO 11885; ICP-OES	DIN 38406-5; E5-1 (photometry)	EN 26777; photometry
LC0070	N160B		EN 27888; C8			ISO 15923-1;	
LC0071	N160B	EN ISO 11885;	EN 27888;	EN ISO 11885;	EN ISO 11885;		
LC0072	N160B	EN ISO 11885; E22	EN 27888; C8	EN ISO 11885; E22	EN ISO 11885; E22	DIN 38406-5; E5	EN 26777; D10
LC0073	N160B	EN ISO 11885;	EN 27888;	EN ISO 11885;	EN ISO 11885;	EN ISO 11732;	EN ISO 13395;
LC0074	N160B						
LC0075	N160B	EN ISO 11885;	EN 27888; C8	EN ISO 11885;	EN ISO 11885;	DIN 38406-5; (chapter 1)	EN ISO 10304-1; D20
LC0076	N160B	EN ISO 14911;	EN 27888; C8	EN ISO 14911;	EN ISO 14911;	EN ISO 11732;	EN 26777;
LC0077	N160B	AAS; HM-AAS-001		AAS; HM-AAS-001	AAS; HM-AAS-001		
LC0078	N160B		housemethod (SOP); SOP pH and conductivity				
LC0079	N160B	EN ISO 11885;	ISO 7888;	ISO 6058;	EN ISO 11885;	ISO 5664;	ISO 6777;
LC0080	N160B	EN ISO 17294;	ISO 7888;	EN ISO 17294;	EN ISO 17294;	ISO 7150-1;	ISO 6777;
LC0081	N160B	photometry; Guide chem. surface water analysis (flame photometer)	conductivity ; Guide chem. surface water analysis	calculated; Guide chem. surface water analysis (difference total hardness and Ca)	photometry; Guide chem. surface water analysis (flame photometer)	ISO 7150-1;	spectrophotometric; Guide chem. surface water analysis (spectrophotometric analysis using Griess reagent)
LC0082	N160B						

LabCode	Sample	Nitrate (as NO3)	Orthophosphate (as PO4)	Sulfate (as SO4)	pH-value	Total nitrogen	DOC (as C) (Sample N160BDOC)
LC0001	N160B	EN ISO 10304-1; D20; IC	EN ISO 15681-1; D45; FIA	EN ISO 10304-1; D20; IC	DIN 38404 C5; potentiometry	IC (Oxisolv);	EN 1484; H3; catalytic combustion; NDIR
LC0002	N160B	EN ISO 10304-1; IC; UV	EN ISO 6878;	EN ISO 10304-1; IC; UV	EN ISO 10523;		
LC0003	N160B				EN ISO 10523; C5		EN 1484; H3; TOC
LC0004	N160B					EN 12260;	
LC0005	N160B	EN ISO 10304-1;		EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0006	N160B	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;	EN ISO 11905-1; H36	EN 1484;
LC0007	N160B	EN ISO 10304-1;	EN ISO 11732;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0008	N160B				EN ISO 10523;		
LC0009	N160B	EN ISO 10304;	ISO 15923-1;	EN ISO 10304;	EN ISO 10523;	EN ISO 11905;	EN 1484;
LC0010	N160B						
LC0011	N160B					EN 12260;	EN 1484;
LC0012	N160B	photometry; Hach Lange		photometry; Hach Lange	EN ISO 10523; potentiometry		
LC0013	N160B		EN ISO 6878;				
LC0014	N160B	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	DIN 38404;	EN ISO 11905-1;	EN 1484;
LC0015	N160B	UV-VIS;	UV-VIS;		potentiometry;		
LC0016	N160B	photometry;	photometry;	IC;	physically;	photometry;	EN 1484;
LC0017	N160B	EN ISO 10304-1;	EN ISO 6878; section 4	EN ISO 10304-1;	EN ISO 10523; DIN 19268		
LC0018	N160B	IC; APAT CNR IRSA 4020	EN ISO 6878;	IC; APAT CNR IRSA 4020	titration; APAT CNR IRSA 2010 B	photometry (oxidation); APAT CNR IRSA 4060	EN 1484;
LC0019	N160B		EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;		EN 1484;
LC0020	N160B	EN ISO 10304-1; IC	EN ISO 15681-2; CFA	EN ISO 10304-1; IC	ISO 10390;	EN 12260;	EN 1484;
LC0021	N160B	ISO 15923-1; D49	ISO 15923-1; D49	ISO 15923-1; D49	EN ISO 10523; C5		EN 1484; H3

LabCode	Sample	Nitrate (as NO3)	Orthophosphate (as PO4)	Sulfate (as SO4)	pH-value	Total nitrogen	DOC (as C) (Sample N160BDOC)
LC0022	N160B	DIN 38405-29; D29	EN ISO 6878; D11		EN ISO 10523; C5		EN 1484; H3
LC0023	N160B	IC; SOP5166	spectrophotometric; SOP5011	IC; SOP5166	Potentiometry; SOP5007		NPOC; SOP5013
LC0024	N160B	EN ISO 10304-1;	ISO 15923-1;	EN ISO 10304-1;	EN ISO 10523;		EN 1484;
LC0025	N160B	EN ISO 10304-1;	EN ISO 15681-2;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0026	N160B	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;	oxidation (CLD);	EN 1484;
LC0027	N160B	DIN 38405-9; D9; photometry (cuvette test)	EN ISO 6878; photometry		EN ISO 10523; C5		EN 1484; H3
LC0028	N160B	IC;	IC;	IC;	pH meter;		multi N/C;
LC0029	N160B				EN ISO 10523;		
LC0030	N160B	ISO 15923-1;	ISO 15923-1;	ISO 15923-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0031	N160B	EN ISO 13395;	EN ISO 15681-1;	EN ISO 10304-1;	DIN 38404;	ISO 11261;	
LC0032	N160B	IC;	FIA; photometry	IC;	EN ISO 10523; potentiometric	Combustion; chemoluminescence	Combustion; CO2- detection
LC0033	N160B				EN ISO 10523;		
LC0034	N160B	EN ISO 10304-1;	EN ISO 10304-1;	EN ISO 10304-1;	EN ISO 10523;	ISO 5663;	
LC0035	N160B	EN ISO 10304-1; D20		EN ISO 10304-1; D20	EN ISO 10523; C5		EN 1484; H3
LC0036	N160B	EN ISO 10304-1;	EN ISO 15681-2;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0037	N160B						
LC0038	N160B	EN ISO 13395;	EN ISO 15681-2;	ISO 22743;	EN ISO 10523;		EN 1484;
LC0039	N160B	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;		EN 1484;
LC0040	N160B	EN ISO 10304-1; IC	EN ISO 15681-2; CFA	EN ISO 10304-1; IC	EN ISO 10523;	EN 12260;	EN 1484;
LC0041	N160B	EN ISO 10304-1; modified; IC	EN ISO 6878; modified, photometry	EN ISO 10304-1; modified; IC	EN ISO 10523; pH meter		

LabCode	Sample	Nitrate (as NO3)	Orthophosphate (as PO4)	Sulfate (as SO4)	pH-value	Total nitrogen	DOC (as C) (Sample N160BDOC)
LC0042	N160B	IC;		IC;	potentiometry;		
LC0043	N160B				EN ISO 10523; C5		
LC0044	N160B	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0045	N160B	EN ISO 10304-1;	EN ISO 15681-2;	EN ISO 10304-1;	EN ISO 10523;	EN ISO 11905-1;	EN 1484;
LC0046	N160B	DIN 38405-9; D9	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;	DEV H12;	EN 1484;
LC0047	N160B	EN ISO 10304-1; D20	cuvette test; Hach	EN ISO 10304-1; D20	EN ISO 10523; C5		
LC0048	N160B		EN ISO 6878;				EN 1484;
LC0049	N160B	EN ISO 10304-1; IC		EN ISO 10304-1; IC	EN ISO 10523; electrochemical method	EN 12260;	EN 1484;
LC0050	N160B	IC;	photometry;	IC;	potentiometry;	TOC-TN-analyzer;	TOC-TN-analyzer;
LC0051	N160B	ISO 10304;	ISO 10304;	ISO 10304;	DIN 38404-5;		EN 1484;
LC0052	N160B	IC; APAT CNR IRSA 3030	FIA ; FIA Flow injection Analysis; APHA Standard Methods 23rd 4500-P G	IC; APAT CNR IRSA 3030	potentiometry; APAT CNR IRSA 2060	photometry (oxidation); APAT CNR IRSA 4060	HTO/IR; APAT CNR IRSA 2040 A; APAT CNR IRSA 5040 (HTO high-temperature oxidation; IR)
LC0053	N160B	EN ISO 10304-1;	ISO 15923;	EN ISO 10304-1;	EN ISO 10523;	EN 12260; H34	EN 1484; H3
LC0054	N160B	EN ISO 10304-1; D20		EN ISO 10304-1; D20	EN ISO 10523; C5		
LC0055	N160B	EN ISO 10304-1; D20		EN ISO 10304-1; D20			EN 1484; H3
LC0056	N160B	EN ISO 10304-1; D20	EN ISO 10304-1; D20	EN ISO 10304-1; D20	EN ISO 10523; C5	EN 12260;	EN 1484;
LC0057	N160B	EN ISO 10304-1;		EN ISO 10304-1;			
LC0058	N160B	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0059	N160B	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	DIN 38409-6; H6		EN 1484;
LC0060	N160B	EN ISO 10304-1; IC	EN ISO 6878; UV	EN ISO 10304-1; IC	EN ISO 10523;		EN 1484;
LC0061	N160B	EN ISO 10304-1; EN ISO 14911	EN ISO 6878;	EN ISO 10304-1; EN ISO 14911	EN ISO 10523;		EN 1484;
LC0062	N160B	photometry; Spectroquant	EN ISO 6878; photometry		EN ISO 10523;		

LabCode	Sample	Nitrate (as NO3)	Orthophosphate (as PO4)	Sulfate (as SO4)	pH-value	Total nitrogen	DOC (as C) (Sample N160BDOC)
LC0063	N160B	EN ISO 10304-1; D20	EN ISO 10304-1; D20	EN ISO 10304-1; D20	EN ISO 10523; C5		
LC0064	N160B	reflectoquant;			DIN 51369;		
LC0065	N160B	DIN 38405-9;		DIN 38405-5;	EN ISO 10523;		
LC0066	N160B	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484; thermal catalytic oxidation
LC0067	N160B	IC; APAT CNR IRSA 4020	photometry; APAT CNR IRSA 4110 A1	IC; APAT CNR IRSA 4020	potentiometry; ISS.BCA.023	EN 12260;	EN 1484;
LC0068	N160B	EN ISO 10304-1;	cuvette test; LCK 349	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0069	N160B	EN ISO 10304-1; IC	EN ISO 6878; photometry	EN ISO 10304-1; IC	EN ISO 10523;		
LC0070	N160B		ISO 15923-1;		EN ISO 10523;		
LC0071	N160B				EN ISO 10523;		EN 1484;
LC0072	N160B	EN ISO 10304-1; D20	EN ISO 6878; D11	EN ISO 10304-1; D20	EN 27888; C8		EN 1484; H3
LC0073	N160B	EN ISO 10304-1;	EN ISO 15681-2;	EN ISO 10304-1;	EN ISO 10523;	EN 12260;	EN 1484;
LC0074	N160B		EN ISO 6878; D11				
LC0075	N160B	EN ISO 10304-1; D20	EN ISO 10304-1; D20	EN ISO 10304-1; D20	EN ISO 10523;	DIN 38409-28;	EN 1484; H3
LC0076	N160B	EN ISO 10304-1;		EN ISO 10304-1;	EN ISO 10523;	EN 12260;	
LC0077	N160B						
LC0078	N160B				housemethod (SOP); SOP pH and conductivity		
LC0079	N160B	ISO 7890-3;	EN ISO 6878;	ISO 9280;	EN ISO 10523;	calculated;	EPA 415.3;
LC0080	N160B	EN ISO 10304-1;	EN ISO 6878;	EN ISO 10304-1;	EN ISO 10523;		
LC0081	N160B	ISO 7890-3;	EN ISO 6878;	turbidimetry; Guide chem. surface water analysis (BaCl2)	EN ISO 10523;		
LC0082	N160B						