# DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Labor	atory Name :	Alliance Technical Group LLC	Client :	G Environmenta	al				
Projec	ct Location:		Project Number :	- Nelson					
Labor	atory Sample IE	O(s): Q1447	Sampling Date(s):	02/23/2025					
List D	KQP Methods l	Jsed (e.g., 8260,8270, et Cetra)	,1030,1311,6010D,7470A,7	471B,8082A,826	60D,82	270E,9	012B	,9034	,9045D,909
1	specified QA/0 explain any cr	ytical method referenced in this lab QC performance criteria followed, ii iteria falling outside of acceptable of Manance stan	ncluding the requirement to guidelines, as specified in the		<b>V</b>	Yes		No	
1A	Were the meth	nod specified handling, preservatio	n, and holding time requirer	nents met?	$\overline{\mathbf{V}}$	Yes		No	
1B		Was the EPH method conducted w f respective DKQ methods)	rithout significant modification	ons (see	$\overline{\mathbf{A}}$	Yes		No	□ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?					Yes		No	
3	Were samples received at an appropriate temperature (4±2° C)?					Yes		No	□ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?					Yes	$\checkmark$	No	
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?				V	Yes		No	
	b)Were these	reporting limits met?			$\overline{\checkmark}$	Yes		No	□ N/A
6	results report	ytical method referenced in this lab ed for all constituents identified in t ne DKQP documents and/or site-sp	he method-specific analyte		<b>V</b>	Yes		No	
7	Are project-sp	ecific matrix spikes and/or laborato	ry duplicates included in thi	s data set?		Yes	$\overline{\checkmark}$	No	

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."



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# **Cover Page**

Order ID:	Q1447			
Project ID :	Nelson			
Client :	G Environmental			
Lab Sampl	le Number	Client Sample	Numbe	er
Q1447-01 Q1447-02		WC1 WC1		
for completeness, for other t	than the conditions detailed a	terms and conditions of the contrabove. Release of the data containager or his designee, as verified	ned in tl	nis hard copy
Signature :			Date:	3/12/2025
NYDOH CERTIFICATION NO	) - 11376		NJDEP	CERTIFICATION NO - 2001

NJDEP CERTIFICATION NO - 20012





G Environmental Project Name: Nelson

Project # N/A

Chemtech Project # Q1447 Test Name: VOC-TCLVOA-10

#### A. Number of Samples and Date of Receipt:

2 Solid samples were received on 02/26/2025.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

#### C. Analytical Techniques:

The analysis performed on instrument MSVOA\_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOC-TCLVOA-10 was based on method 8260D.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank Spike Duplicate met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

#### E. Additional Comments:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

The soil samples results are based on a dry weight basis.

The Sample #WC1 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.



Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

Signature	





G Environmental Project Name: Nelson Project # N/A

**Chemtech Project # Q1447** 

**Test Name: SVOC-TCL BNA -20** 

#### A. Number of Samples and Date of Receipt:

2 Solid samples were received on 02/26/2025.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

#### C. Analytical Techniques:

The samples were analyzed on instrument BNA\_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements except for WC1 which is fail due to the presence of nontargeted hydrocarbons which can be observed by the abnormal chromatogram. Therefore, no corrective action is required also TR-04-02282025MSD has Internal Standards fail due to matrix interference. Therefore, no corrective action is required. The Retention Times were acceptable for all samples.

The MS {Q1475-01MS} with File ID: BF141819.D recoveries met the requirements for all compounds except for 3, 3-Dichlorobenzidine[52%], 4-Chloroaniline[33%], Fluoranthene[64%] and Pyrene[64%]. These compounds did not meet the NJDKQP criteria but met the in-house criteria.

The MSD {Q1475-01MSD} with File ID: BF141820.D recoveries met the acceptable requirements except for 3,3-Dichlorobenzidine[57%] and 4-Chloroaniline[35%]. These compounds did not meet the NJDKQP criteria but met the in-house criteria. The RPD met criteria.



The Blank Spike for {PB166957BS} with File ID: BF141826.D met requirements for all samples except for 3,3-Dichlorobenzidine[53%], 3-Nitroaniline[56%] and 4-Chloroaniline[29%]. These compounds did not meet the NJDKQP criteria but met the inhouse criteria.

The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration (8270-BF022725.M) for 2-Nitrophenol,2-Nitroaniline,2,6-Dinitrotoluene, 3-Nitroaniline, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol these compounds are passing on Linear Regression and 2,4-Dinitrophenol is passing on Quadratic regression.

The Continuous Calibration File ID BF141824.D met the requirements except for 4-Nitroaniline and 4-Nitrophenol. The associate samples have no positive hit for these compounds. Therefore, no corrective action was required. The Tuning criteria met requirements.

#### **E. Additional Comments:**

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

Signature				





G Environmental Project Name: Nelson Project # N/A

**Chemtech Project # Q1447** 

**Test Name: PCB** 

#### A. Number of Samples and Date of Receipt:

2 Solid samples were received on 02/26/2025.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS and VOC-TCLVOA-10. This data package contains results for PCB.

#### C. Analytical Techniques:

The analyses were performed on instrument GCECD\_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25  $\mu$ m; Catalogue # 7HM-G017-11. The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the acceptable requirements.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration File ID PO109533.D met the requirements except for Decachlorobiphenyl is failing in 1st column but passing in 2nd column therefore no corrective action taken.

The Continuous Calibration File ID PO109548.D met the requirements except for Decachlorobiphenyl is failing in 1st column but passing in 2nd column therefore no corrective action taken.



#### **E. Additional Comments:**

The soil samples results are based on a dry weight basis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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Signature			
Signature.	 	 	_



G Environmental Project Name: Nelson Project # N/A

**Chemtech Project # Q1447** 

Test Name: EPH

#### A. Number of Samples and Date of Receipt:

2 Solid samples were received on 02/26/2025.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS and VOC-TCLVOA-10. This data package contains results for EPH.

#### C. Analytical Techniques:

The analysis were performed on instrument FID\_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224. The analyses were performed on instrument FID\_D. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224. The analysis of EPHs was based on method NJEPH and extraction was done based on method 3541.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for WC1DL2 [1-chlorooctadecane (SURR) - 0%], Surrogate was diluted out due to the high dilution. No further corrective action was taken.

The Retention Times were acceptable for all samples.

The MS {Q1421-02} with File ID: FD049142.D recoveries met the requirements for all compounds except for Aromatic C21-C36[151%] due to matrix interference.

The MSD {Q1421-03} with File ID: FD049143.D recoveries met the acceptable requirements except for Aromatic C21-C36[146%] due to matrix interference.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank Spike Duplicate met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.



The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

Samples WC1 and WC1DL were diluted due to high concentrations for Aliphatic compounds and Sample WC1 was diluted due to high concentrations for Aromatic compounds.

#### **E. Additional Comments:**

The soil samples results are based on a dry weight basis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

Signature		
Signature		



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#### **CASE NARRATIVE**

G Environmental Project Name: Nelson

Project # N/A

**Chemtech Project # Q1447** 

**Test Name: Metals ICP-TAL, Mercury** 

#### A. Number of Samples and Date of Receipt:

2 Solid samples were received on 02/26/2025.

#### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS and VOC-TCLVOA-10. This data package contains results for Metals ICP-TAL, Mercury.

#### C. Analytical Techniques:

The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate (WC1DUP) analysis met criteria for all samples except for Calcium, Iron, Nickel, Zinc due to matrix interference.

The Duplicate (WC1MSD) analysis met criteria for all samples except for Calcium, Iron, Lead, Manganese, Zinc due to matrix interference.

The Matrix Spike (WC1MS) analysis met criteria for all samples except for Antimony, Zinc due to matrix interference.

The Matrix Spike Duplicate (WC1MSD) analysis met criteria for all samples except for Antimony, Lead due to matrix interference.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution (WC1L) met criteria for all samples except for Iron, Lead, Manganese due to unknown interference.

#### E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed



above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature	



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#### CASE NARRATIVE

G Environmental Project Name: Nelson

Project # N/A

**Chemtech Project # Q1447** 

**Test Name: TCLP Mercury, TCLP ICP Metals** 

#### A. Number of Samples and Date of Receipt:

2 Solid samples were received on 02/26/2025.

#### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS and VOC-TCLVOA-10. This data package contains results for TCLP Mercury, TCLP ICP Metals.

#### C. Analytical Techniques:

The analysis of TCLP ICP Metals was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate (WC1DUP) analysis met criteria for all samples except for Barium, Lead due to matrix interference.

The Matrix Spike (WC1MS) analysis met criteria for all samples except for Barium due to matrix interference.

The Matrix Spike Duplicate (WC1MSD) analysis met criteria for all samples except for Barium due to matrix interference.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

#### **E. Additional Comments:**

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed



above. The laboratory manager or his designee, as verified by the following signature has	
authorized release of the data contained in this hard copy data package.	

Signature	
	_



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#### **CASE NARRATIVE**

G Environmental Project Name: Nelson

Project # N/A

Chemtech Project # Q1447

Test Name: pH,Paint Filter,Ignitability,Reactive Cyanide,Reactive Sulfide

#### A. Number of Samples and Date of Receipt:

2 Solid samples were received on 02/26/2025.

#### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS and VOC-TCLVOA-10. This data package contains results for pH,Paint Filter,Ignitability,Reactive Cyanide,Reactive Sulfide.

#### C. Analytical Techniques:

The analysis of Ignitability was based on method 1030, The analysis of Reactive Cyanide was based on method 9012B, The analysis of Reactive Sulfide was based on method 9034, The analysis of pH was based on method 9045D and The analysis of Paint Filter was based on method 9095B.

#### D. QA/ QC Samples:

The Holding Times were met for all samples except for WC1 of pH as this sample received out of hold.

The Duplicate analysis met criteria for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

#### E. Additional Comments:

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## DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following "Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers  "P" for ICP instrument  "PM" for ICP when Microwave Digestion is used  "CV" for Manual Cold Vapor AA  "AV" for automated Cold Vapor AA  "CA" for MIDI-Distillation Spectrophotometric  "AS" for Semi – Automated Spectrophotometric  "C" for Manual Spectrophotometric  "T" for Titrimetric  "NR" for analyte not required to be analyzed  Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
Н	Sample Analysis Out Of Hold Time



### DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
В	<ul> <li>Indicates an estimated value. This flag is used:</li> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.</li> <li>Indicates the analyte was found in the blank as well as the sample report as "12 B".</li> </ul>
Е	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements





APPENDIX A

#### **QA REVIEW GENERAL DOCUMENTATION**

Project #: Q1447

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	<b>→</b>
Is the chain of custody signed and complete	<u> </u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u> </u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	<u> </u>
Does the case narrative summarize all QC failure?	<u> </u>
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	<u> </u>

QA Review Signature: SOHIL JODHANI Date: 03/12/2025