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Cover Page

Order ID : Q2820

Project ID : USACE018-44 DOD

Client : First Environment, Inc.

Lab Sample Number	Client Sample Number
Q2820-01	82H-S
Q2820-02	82H-W
Q2820-03	82H-N
Q2820-04	SOIL-DUP-1
Q2820-05	518R-E
Q2820-06	518R-N
Q2820-07	518R-S
Q2820-08	518R-W
Q2820-09	705R-S
Q2820-10	SOIL-DUP-2
Q2820-11	10PC-W
Q2820-12	10PC-S
Q2820-13	10P-W
Q2820-14	10P-E
Q2820-15	10P-S
Q2820-16	10P-N
Q2820-17	88H-E
Q2820-18	88H-N
Q2820-19	88H-W
Q2820-20	88H-S
Q2820-21	22M-N
Q2820-22	22M-W
Q2820-23	22M-E
Q2820-24	22M-S

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

Signature : _____

Date: 8/22/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

First Environment, Inc.
Project Name: USACE018-44 DOD
Project # N/A
Order ID # Q2820
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
24 Solid samples were received on 08/08/2025.
B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_W were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.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 were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82Y081225S.M) for Methylene chloride passing on Linear regression.

The Continuous Calibration File ID VW032080.D met the requirements except for 2-Hexanone,Bromoform and Dibromochloromethane are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
The Sample # 82H-W and 88H-S have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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

Trip Blank was not provided with this set of samples.
The not QT review data is reported in the Miscellaneous.
The soil samples results are based on a dry weight basis.
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.

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CASE NARRATIVE

First Environment, Inc.
Project Name: USACE018-44 DOD
Project # N/A
Order ID # Q2820
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
24 Solid samples were received on 08/08/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-TCL BNA -20. 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 samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. 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 were met for all analysis except for
82H-W [Terphenyl-d14 - 46%],
82H-N [Terphenyl-d14 - 46%],
SOIL-DUP-1 [Terphenyl-d14 - 52%],
518R-E [Terphenyl-d14 - 46%],
705R-S [Terphenyl-d14 - 47%],
10PC-W [Terphenyl-d14 - 50%],
10P-E [Terphenyl-d14 - 51%],
10P-N [Terphenyl-d14 - 45%],
88H-EMS [Terphenyl-d14 - 46%],
88H-EMSD [Terphenyl-d14 - 49%],
88H-N [Terphenyl-d14 - 48%],
22M-E [Terphenyl-d14 - 38%] and
22M-S [Terphenyl-d14 - 38%], as per method one acid and one base surrogate allow to fail therefore no corrective action taken, while for
518R-S [2-Fluorobiphenyl - 43%, Terphenyl-d14 - 38%],
518R-SRE [2-Fluorobiphenyl - 42%, Terphenyl-d14 - 36%],
82H-S [2-Fluorobiphenyl - 43%, Terphenyl-d14 - 42%],
82H-SRE [2-Fluorobiphenyl - 42%, Terphenyl-d14 - 42%],
88H-W [2-Fluorobiphenyl - 41%, Terphenyl-d14 - 41%],

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88H-WRE [2-Fluorobiphenyl - 41%, Terphenyl-d14 - 42%],
88H-S [2,4,6-Tribromophenol - 37%, 2-Fluorobiphenyl - 31%, Nitrobenzene-d5 - 34%, Terphenyl-d14 - 30%],
88H-SRE [2,4,6-Tribromophenol - 38%, 2-Fluorobiphenyl - 30%, Nitrobenzene-d5 - 34%, Terphenyl-d14 - 30%],
22M-N [2-Fluorobiphenyl - 40%, Terphenyl-d14 - 39%],
22M-NRE [2-Fluorobiphenyl - 40%, Terphenyl-d14 - 41%],
22M-W [2-Fluorobiphenyl - 42%, Terphenyl-d14 - 38%], and
22M-WRE [2-Fluorobiphenyl - 41%, Terphenyl-d14 - 40%], samples were reanalyzed to confirm the failure and reported.

The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.
The MS {Q2830-05MS} with File ID: BF143367.D recoveries met the requirements for all compounds except for bis(2-Ethylhexyl)phthalate[140%], Butylbenzylphthalate[150%] and Di-n-butylphthalate[133%] due to matrix interference.

The MSD {Q2830-05MSD} with File ID: BF143368.D recoveries met the requirements for all compounds except for 2,3,4,6-Tetrachlorophenol[133%], 2,6-Dinitrotoluene[125%], 4,6-Dinitro-2-methylphenol[133%], 4-Nitroaniline[125%], bis(2-Ethylhexyl)phthalate[157%], Butylbenzylphthalate[192%], Caprolactam[125%] and Di-n-butylphthalate[142%] due to matrix interference.

The RPD for {Q2830-05MSD} with File ID: BF143368.D met criteria except for 4-Nitroaniline[22%], 4-Nitrophenol[23%], Butylbenzylphthalate[25%], Caprolactam[22%] and Pyrene[31%] due to difference in results of MS and MSD.

The Blank Spike for {PB169242BS} with File ID: BP025489.D met requirements for all compounds except for 1,4-Dioxane[65%] failing biased low therefore no corrective action taken.

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

The %RSD is greater than 20% for certain compounds in the Initial Calibration (Method 8270-BF081225.M) for 2-Nitrophenol, Hexachlorocyclopentadiene, 2-Nitroaniline, 2,6-Dinitrotoluene, 4-Nitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylephenol, Pentachlorophenol, Butylbenzylphthalate, Bis(2-ethylhexylephthalate), Di-n-octyl phthalate these Compounds are passing on Linear Regression while 2,4-Dinitrophenol is passing on Quadratic Regression.

The %RSD is greater than 20% in the Initial Calibration (Method 8270-BF082025.M) for Hexachlorocyclopentadiene, 2,4-Dinitrophenol these Compounds are passing on Linear regression.

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The %RSD is greater than 20% in the Initial Calibration (Method 8270-BP0805.M) for 2-Nitrophenol , 2-Nitroaniline, 2,4-Dinitrotoluene these Compounds are passing on Linear regression, and 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol these compounds are passing on Quadratic regression.

The Continuous Calibration File ID BF143365.D met the requirements except for Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Di-n-octyl phthalate and Pentachlorophenol are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BF143539.D met the requirements except for Pentachlorophenol are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BP025377.D met the requirements except for 2,2-oxybis(1-Chloropropane) is failing marginally low while 2,4-Dinitrophenol,2,6-Dinitrotoluene,2-Nitrophenol,4,6-Dinitro-2-methylphenol,Pentachlorophenol and 2,4,6-Tribromophenol are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BP025422.D met the requirements except for Benzaldehyde is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BP025470.D met the requirements except for 2,4-Dinitrophenol,4,6-Dinitro-2-methylphenol and Hexachlorocyclopentadiene are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BP025485.D met the requirements except for 2,4-Dinitrophenol is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BP025487.D met the requirements except for 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID BP025528.D met the requirements except for Benzaldehyde is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Samples 10P-S was diluted due to dirty matrix.

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

The not QT review data is reported in the Miscellaneous.
The soil samples results are based on a dry weight basis.

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.

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.

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CASE NARRATIVE

First Environment, Inc.
Project Name: USACE018-44 DOD
Project # N/A
Order ID # Q2820
Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:
24 Solid samples were received on 08/08/2025.
B. Parameters
According to the Chain of Custody document, the following analyses were requested: Pesticide-TCL. This data package contains results for Pesticide-TCL.

C. Analytical Techniques:
The analysis was performed on instrument ECD_D. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.The analysis of Pesticide-TCLs was based on method 8081B and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for 705R-S [Decachlorobiphenyl(1)35%, Decachlorobiphenyl(2)43%], 705R-SRE [Decachlorobiphenyl(1)35% and Decachlorobiphenyl(2)43%], All the failure samples in surrogates with both columns were reanalyzed to confirm the results as per method and reported in the data.

The Retention Times were met for all analysis.

The MS recoveries for {Q2819-14MS} with File ID: PD089894.D met requirements for all samples except for [alpha-Chlordane(1)-31% - alpha-Chlordane(2)-15%], [gamma-Chlordane(1)-5% - gamma-Chlordane(2)15%], [Heptachlor epoxide(1)137% - Heptachlor epoxide(2)161%], , [Endosulfan II(2)514%], and [Endrin(2)177%] Due to matrix interference.

The MSD {Q2819-14MSD} with File ID: PD089895.D recoveries met the acceptable requirements except for [alpha-Chlordane(1)-36% - alpha-Chlordane(2)-10%], [gamma-Chlordane(1)-15% - gamma-Chlordane(2)5%], [Heptachlor epoxide(1)148% - Heptachlor epoxide(2)160%],[Endosulfan II(2)520%], and [Endrin(2)176%] Due to matrix interference.

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The RPD for {Q2819-14MSD} with File ID: PD089895.D met criteria except for [Aldrin(1)50%], [gamma-Chlordane(1)100%], [Endosulfan I(2)39%] [Alpha-Chlordane(2)40%] , [Gamma-Chlordane(2)100%] and [4,4-DDD(2)42%]due to difference in results of MS and MSD.

The Blank Spike met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

E. Additional Comments:
The not QT review data is reported in the Miscellaneous.

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.

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.

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CASE NARRATIVE

First Environment, Inc.
Project Name: USACE018-44 DOD
Project # N/A
Order ID # Q2820
Test Name: PCB

A. Number of Samples and Date of Receipt:
24 Solid samples were received on 08/08/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. 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 µm; Catalogue # 7HM-G017-11.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 µm; 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 {Q2832-03MS} with File ID: PP074344.D recoveries met the requirements for all compounds except for [AR1260(1)153% - AR1260(2)359%] Due to matrix interference. due to matrix interference.

The MSD {Q2832-03MSD} with File ID: PP074345.D recoveries met the acceptable requirements except for [AR1260(1)148% - AR1260(2)354%] Due to matrix interference due to matrix interference.

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 .

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The Continuous Calibration File ID PO112850.D met the requirements except for Aroclor-1016(Peak-01),Tetrachloro-m-xylene is failing in 1st column but passing in 2nd column therefore no corrective action taken.

The Continuous Calibration File ID PO112880.D met the requirements except for Aroclor-1016(Peak-01) is failing in 1st column but passing in 2nd column therefore no corrective action taken.

The Continuous Calibration File ID PP074302.D met the requirements except for Aroclor-1016(Peak-02),Tetrachloro-m-xylene is failing in 2nd column but passing in 1st column therefore no corrective action taken.

E. Additional Comments:

The not QT review data is reported in the Miscellaneous.

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

These sample 705R-S have low surrogate recovery , as a corrective action these sample were re-extracted and reanalyzed with new prepbatch(PB169227) and reported new prepbatch run.

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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CASE NARRATIVE

First Environment, Inc.
Project Name: USACE018-44 DOD
Project # N/A
Order ID # Q2820
Test Name: Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:
03 Solid samples were received on 08/08/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for Mercury,Metals ICP-TAL.

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 compounds.
The Duplicate (POWDERMSD) analysis met criteria for all compounds except for Iron and Vanadium due to Chemical Interference during Digestion process.
The Matrix Spike (POWDERMS) analysis met criteria for all compounds except for Antimony, Arsenic, Beryllium, Chromium, Potassium, Selenium, Silver, Thallium and Vanadium due to Chemical Interference during Digestion process.
The Matrix Spike Duplicate (POWDERMSD) analysis met criteria for all compounds except for Antimony, Arsenic, Beryllium, Potassium, Selenium, Silver and Vanadium due to Chemical Interference during Digestion process.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution (POWDERL) met criteria for all compounds except for Aluminum, Calcium, Chromium, Copper, Iron, Manganese and Zinc due to sample matrix interference.

E. Additional Comments:
The Post Digest Spike (POWDERA) analysis met criteria for all compounds except for Antimony, Arsenic, Beryllium, Chromium, Potassium, Selenium, Silver and Vanadium due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

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Alliance TECHNICAL GROUP

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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
OR	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
H	Sample Analysis Out Of Hold Time

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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
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (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.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2820**

	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	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
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	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **SOHIL JODHANI** **Date:** **08/22/2025**