

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : CHEMTECH Client : ENTACT
 Project Location : North Point Project Number : _____
 Laboratory Sample ID(s) : P4518 Sampling Date(s) : 10/23/2024
 List DKQP Methods Used (e.g., 8260,8270, et Cetra) **8015D,NJEPH**

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified handling, preservation, and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (4±2° C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b)Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.”

Cover Page

Order ID : P4518

Project ID : North Point

Client : ENTACT

Lab Sample Number

P4518-01
P4518-02
P4518-03
P4518-04
P4518-05

Client Sample Number

EX-5-TPH-1
EX-5-TPH-2
EX-5-TPH-3
EX-5-TPH-4
EX-5-TPH-5

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: 11/6/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



284 Sheffield Street, Mountainside, NJ 07092
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CASE NARRATIVE

ENTACT

Project Name: North Point

Project # N/A

Chemtech Project # P4518

Test Name: Gasoline Range Organics

A. Number of Samples and Date of Receipt:

5 Solid samples were received on 10/23/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, EPH, Gasoline Range Organics, TPH and TPH GC. This data package contains results for Gasoline Range Organics.

C. Analytical Techniques:

The analysis performed on instrument FID_B were done using GC column RTX502.2 which is 60 meters, 0.53mm ID, 3.0 um df, cat#10909. The analysis of Gasoline Range Organics was based on method 8015D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for EX-5-TPH-1 [Alpha,Alpha,Alpha-Trifluorotoluene - 363%], EX-5-TPH-3 [Alpha,Alpha,Alpha-Trifluorotoluene - 279%], EX-5-TPH-4 [Alpha,Alpha,Alpha-Trifluorotoluene - 277%], EX-5-TPH-5 [Alpha,Alpha and Alpha-Trifluorotoluene - 167%] due to bad matrix.

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 .

For samples # EX-5-TPH-1, EX-5-TPH-2, EX-5-TPH-3, EX-5-TPH-4 and EX-5-TPH-5 both soil vial did not purge therefore analyzed directly in methanol.

E. Additional Comments:

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



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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

ENTACT

Project Name: North Point

Project # N/A

Chemtech Project # P4518

Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:

5 Solid samples were received on 10/23/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, EPH, Gasoline Range Organics, TPH and TPH GC. This data package contains results for Diesel Range Organics.

C. Analytical Techniques:

The analysis of Diesel Range Organics was based on method 8015D 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 EX-5-TPH-1 [Tetracosane-d50 - 0%], EX-5-TPH-2 [Tetracosane-d50 - 0%], EX-5-TPH-4 [Tetracosane-d50 - 0%] and EX-5-TPH-5 [Tetracosane-d50 - 0%], Surrogates were diluted out due to the high dilution. No further corrective action was taken.

The Retention Times were acceptable for all samples.

The MS {P4518-01MS} with File ID: FF014766.D recoveries met the requirements for all compounds except for DRO[-4978%] due to matrix interference.

The MSD {P4518-01MSD} with File ID: FF014767.D recoveries met the acceptable requirements except for DRO[-5575%] 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 .

The Continuous Calibration met the requirements .

Samples EX-5-TPH-1, EX-5-TPH-2, EX-5-TPH-3, EX-5-TPH-4 and EX-5-TPH-5 were diluted due to bad matrices.



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E. Additional Comments:

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

F. Manual Integration Comments:

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CASE NARRATIVE

ENTACT

Project Name: North Point

Project # N/A

Chemtech Project # P4518

Test Name: EPH

A. Number of Samples and Date of Receipt:

5 Solid samples were received on 10/23/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, EPH, Gasoline Range Organics, TPH and TPH GC. 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
EX-5-TPH-1DL [2-Bromonaphthalene (SURR) - 156%],
EX-5-TPH-2 [1-chlorooctadecane (SURR) - 37%],
EX-5-TPH-2DL [1-chlorooctadecane (SURR) - 34%],
EX-5-TPH-2DL2 [1-chlorooctadecane (SURR) - 38%],
EX-5-TPH-2DL2 [2-Bromonaphthalene (SURR) - 141%],
EX-5-TPH-4 [2-Fluorobiphenyl (SURR) - 144%],
EX-5-TPH-4DL [2-Bromonaphthalene (SURR) - 154%] and
EX-5-TPH-4DL2 [2-Bromonaphthalene (SURR) - 164%] due to high concentration,
samples required dilution therefore samples were reanalyzed with dilution and reported.

The Retention Times were acceptable for all samples.

The MS {P4518-05MS} with File ID: FC067546.D recoveries met the requirements for all compounds except for Aliphatic C9-C12[145%], Aliphatic C12-C16[921%], Aliphatic C16-C21[762%], Aliphatic C21-C28[377%] and Aliphatic C28-C40[321%] due to sample matrix interference.



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The MS {P4518-05MS} with File ID: FD048607.D recoveries met the requirements for all compounds except for Aromatic C12-C16[223%], Aromatic C16-C21[281%] due to sample matrix interference.

The MSD {P4518-05MSD} with File ID: FC067547.D recoveries met the acceptable requirements except for Aliphatic C9-C12[140%], Aliphatic C12-C16[856%], Aliphatic C16-C21[748%], Aliphatic C21-C28[350%] and Aliphatic C28-C40[307%] due to sample matrix interference.

The MSD {P4518-05MSD} with File ID: FD048608.D recoveries met the acceptable requirements except for Aromatic C12-C16[180%], Aromatic C16-C21[277%] due to sample 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 EX-5-TPH-1, EX-5-TPH-1DL, EX-5-TPH-2, EX-5-TPH-2DL, EX-5-TPH-3, EX-5-TPH-3DL, EX-5-TPH-4, EX-5-TPH-4DL, EX-5-TPH-5 and EX-5-TPH-5DL were diluted due to high concentrations.

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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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 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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4518

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 Custody

✓

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: 11/06/2024