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Cover Page

Order ID : Q3725

Project ID : AQUA Woolwich Pump Station 22-531

Client : Roman E&G Corp

Lab Sample Number	Client Sample Number
Q3725-04	STOCKPILE-SAMPLES

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: 12/9/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Roman E&G Corp
Project Name: AQUA Woolwich Pump Station 22-531
Project # N/A
Order ID # Q3725
Test Name: VOCGCMS NJ CleanGroup New,SVOCMS NJ CleanGroup New,EPH_NF,PCB,PESTICIDE NJCLEAN Group New,Mercury,Metals NJClean Group New,Cyanide

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 11/25/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOCGCMS NJ CleanGroup New,SVOCMS NJ CleanGroup New,EPH_NF,PCB,PESTICIDE NJCLEAN Group New,Mercury,Metals NJClean Group New,Cyanide. This data package contains results for VOCGCMS NJ CleanGroup New(8260D),SVOCMS NJ CleanGroup New(8270E),EPH_NF(NJEPH),PCB(8082A),PESTICIDE NJCLEAN Group New(8081B),Mercury(7471B),Metals NJClean Group New(6010D),Cyanide(9012).

C. Analytical Techniques:
VOCGCMS NJ CleanGroup New : 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 VOCGCMS NJ CleanGroup New was based on method 8260D.

SVOCMS NJ CleanGroup New : 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 SVOCMS NJ CleanGroup New was based on method 8270E and extraction was done based on method 3541.

PCB : 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.

EPH_NF : The analysis were performed on instrument FID_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis of EPH_NFs was based on method NJEPH and extraction was done based on method 3541.

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PESTICIDE NJCLEAN Group New : 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 NJCLEAN Group News was based on method 8081B and extraction was done based on method 3541.

Mercury,Metals NJClean Group New : The analysis of Metals NJClean Group New was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

Wetchem : The analysis of Cyanide was based on method 9012B and extraction was done based on method 9014.

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

The Surrogate recoveries were met for all analysis except following
VOCGCMS NJ CleanGroup New : STOCKPILE-SAMPLES [4-Bromofluorobenzene - 67%] this compound did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds except following
SVOCMS NJ CleanGroup New : The MS {Q3735-01MS} with File ID: BF144392.D recoveries met the requirements for all compounds except for 3,3-Dichlorobenzidine[63%] and 4,6-Dinitro-2-methylphenol[52%]. These compounds did not meet the NJDKQP criteria but met the in-house criteria.

Mercury,MetalsNJClean GroupNew : The Matrix Spike (WC1MS) analysis met criteria for all compounds except for Antimony and Vanadium due to Chemical Interference during Digestion Process.

The MSD recoveries met the requirements for all compounds except following
SVOCMS NJ CleanGroup New : The MSD {Q3735-01MSD} with File ID: BF144393.D recoveries met the requirements for all compounds except for 3,3-Dichlorobenzidine[68%] and 4,6-Dinitro-2-methylphenol[43%]. These compounds did not meet the NJDKQP criteria but met the in-house criteria.

Mercury,MetalsNJClean GroupNew : The Matrix Spike Duplicate (WC1MSD) analysis met criteria for all compounds except for Antimony due to Chemical Interference during Digestion Process.

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The RPD were met for all analysis except following
SVOCMS NJ CleanGroup New : The RPD for {Q3735-01MSD} with File ID: BF144393.D met criteria except for 2,4-Dinitrophenol[38%], Hexachlorocyclopentadiene[21%]. Due to difference in MS and MSD concentrations.

The Blank Spike met requirements for all compounds except following
SVOCMS NJ CleanGroup New : The Blank Spike for {PB170763BS} with File ID: BF144386.D met requirements for all compounds except for Benzidine[19%]. This compound did not meet the NJDKQP criteria but met the in-house criteria.

The Blank Spike Duplicate met requirements for all compounds
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements except following
SVOCMS NJ CleanGroup New : The %RSD is greater than 20% in the Method 8270-BF110525.M for Hexachlorocyclopentadiene, this compound is passing on Quadratic regression.

The Continuous Calibration met the requirements except following
SVOCMS NJ CleanGroup New : The Continuous Calibration File ID BF144382.D met the requirements except for Benzaldehyde and Benzidine. But associated samples have no positive hit therefore no corrective action was taken.

PCB : The Continuous Calibration File ID PO115479.D met the requirements except for Aroclor-1260(Peak-02) is failing in 2nd column, however it is passed in 1st column therefore no corrective action was taken.

The Continuous Calibration File ID PO115493.D met the requirements except for Aroclor-1016(Peak-04) is failing in 2nd column, however it is passed in 1st column therefore no corrective action was taken.

The Tuning criteria met requirements.

Mercury,Metals NJClean Group New :
The Duplicate analysis met criteria for all samples.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
The soil samples results are based on a dry weight basis.
The temperature of the samples at the time of receipt was 16.1°C.

Mercury,Metals NJClean Group New : The Post Digest Spike (WC1A) analysis met criteria for all compounds except for Antimony 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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Sample Q3725-04 has unknown interferences from the soil which can suppress the actual concentration without dilution and also can effect the path of sample probe and tubes and the nebulizer can be blocked to make the small orifice and hence can effect QC failure. So straight 5X dilution was necessary for analyze sample.

VOCGCMS NJ CleanGroup New : 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.

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.

Signature_____

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 #: **Q3725**

	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: **PRADIP PRAJAPATI** **Date:** **12/09/2025**