CASE NARRATIVE

Pacific Commercial Services Inc.
Project Name: Kilo Pier
Project # N/A
Order ID # Q3574
Test Name: VOC-TCLVOA-10,SVOC-PAH,Gasoline Range Organics,TPH GC,Mercury,Metals ICP-TAL,TCLP ICP Metals,TCLP Mercury,Flash Point,pH

A. Number of Samples and Date of Receipt:
3 Water samples were received on 11/07/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10,SVOC-PAH,Gasoline Range Organics,TPH GC,Mercury,Metals ICP-TAL,TCLP ICP Metals,TCLP Mercury,Flash Point,pH. This data package contains results for VOC-TCLVOA-10(8260-Low),SVOC-PAH(8270E),Gasoline Range Organics(8015D),TPH GC(8015D),Mercury(7470A),Metals ICP-TAL(6010D),TCLP ICP Metals(6010D),TCLP Mercury(7470A),Flash Point(1010B),pH(9040C).

C. Analytical Techniques:
VOC-TCLVOA-10 : The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOC-TCLVOA-10 was based on method 8260-Low.

SVOC-PAH : 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-PAH was based on method 8270E and extraction was done based on method 3510.

TPH GC : The analysis were performed on instrument FID_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of TPH GC was based on method 8015D and extraction was done based on method 3510.

Gasoline Range Organics : 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.

Mercury,Metals ICP-TAL : The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of Mercury was based on method 7470A.

TCLP ICP Metals,TCLP Mercury : 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.

Wetchem : The analysis of Flash Point was based on method 1010B and The analysis of pH was based on method 9040C.

D. QA/ QC Samples:
The Holding Times were met for all analysis except following Wetchem : 304641-01 Liquid of pH as sample was receive out of holding time.

The Surrogate recoveries were met for all analysis except following
SVOC-PAH : 304641-01 Liquid [Terphenyl-d14 - 36%], as per method one base surrogate allow to fail therefore no corrective action taken.

The Surrogate recoveries were met for all analysis except following
TPH GC : 304641-01 Liquid [TETRACOSANE-d50 - 1725%]. Due to high concentration of compounds, this sample required dilution. Therefore, sample was reanalyzed with dilution and reported.

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
Mercury,Metals ICP-TAL : The Matrix Spike (SW-3MS) analysis met criteria for all compounds except for Iron, Silver, Thallium and Zinc due to Chemical Interference during Digestion Process.

TCLP ICP Metals,TCLP Mercury : The Matrix Spike (S-2MS) analysis met criteria for all compounds except for Barium due to Chemical Interference during Digestion Process.

The MSD recoveries met the requirements for all compounds except following
Mercury,Metals ICP-TAL : The Matrix Spike Duplicate (SW-1MSD) analysis met criteria for all compounds except for Mercury due to Sample Matrix interference. The Matrix Spike Duplicate (SW-3MSD) analysis met criteria for all compounds except for Antimony, Arsenic, Iron, Silver and Zinc due to Chemical Interference during Digestion Process.

TCLP ICP Metals,TCLP Mercury : The Matrix Spike Duplicate (S-2MSD) analysis met criteria for all compounds except for Barium due to Chemical Interference during Digestion Process.

The RPD recoveries met criteria.
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 Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.
The Duplicate analysis met criteria for all compounds.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

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

TCLP ICP Metals,TCLP Mercury : The Post Digest Spike (S-2A) analysis met criteria for all compounds except for Barium 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.

Mercury,Metals ICP-TAL : The Post Digest Spike (SW-3A) analysis met criteria for all compounds except for Iron, Thallium and Zinc 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.

SVOC-PAH : The not QT review data is reported in the Miscellaneous.

VOC-TCLVOA-10 : 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.

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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_____