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CASE NARRATIVE

Earth Engineering Inc.

Project Name: Reserve Turgyan Farms

Project # N/A

Order ID # Q2818

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

4 Solid samples were received on 08/11/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH_NF, Hexavalent Chromium, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, SPLP Extraction, SPLP Mercury, SPLP MetalGroup3, SVOC-TCL BNA -20, TCL+30/TAL 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 samples were analyzed on instrument BNA_P using GC Column ZB-Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GG. 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.

The Retention Times were acceptable for all samples.

The MS {Q2830-05MS} with File ID: BF143367.D recoveries met the requirements for all compounds except for Butylbenzylphthalate[150%], Di-n-butylphthalate[133%], due to matrix interference, therefore no corrective action is required .

The MSD {Q2830-05MSD} with File ID: BF143368.D recoveries met the acceptable requirements except for Butylbenzylphthalate[192%], Di-n-butylphthalate[142%], due to matrix interference, therefore no corrective action is required .

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 {PB169210BS} with File ID: BP025402.D met requirements for all samples except for 2,4,5-Trichlorophenol[100%], is Failing high but The associated samples have no positive hit of these compounds, therefore no corrective action was 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-methylphenol, Pentachlorophenol, Butylbenzylphthalate, Bis(2-ethylhexylephthalate), Di-n-octyl phthalate. These Compounds are passing on Linear Regression, 2,4-Dinitrophenol is passing on Quadratic Regression.

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 but The associated samples have no positive hit of these compounds, therefore no corrective action was taken .

The Continuous Calibration File ID BP025360.D met the requirements except for 2,4-Dinitrophenol, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol and 2,4,6-Tribromophenol, The associated samples have no positive hit of these compounds, therefore no corrective action was taken .

The Continuous Calibration File ID BP025377.D met the requirements except for 2,2-oxybis(1-Chloropropane), 2,4-Dinitrophenol, 2,6-Dinitrotoluene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, 2-Nitroaniline and 2,4,6-Tribromophenol, The associated samples have no positive hit of these compounds, therefore no corrective action was taken .

The Tuning criteria met requirements.

E. Additional Comments:

The temperature of the samples at the time of receipt was 6.1°C

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

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



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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.

Signature_____