



Resource Technologies, Inc.

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October 24, 2025

Mr. Jay Shearer
MDEQ-PTCS
P. O. Box 200901
Helena, MT 59620-0901

Subject: Remedial Investigation Workplan and Budget, Revision 1; Air Controls Billings property, 2109 1st Ave North, Billings, Yellowstone County, Montana; Facility ID 00-32601 (TID 32601), Petroleum Release 6739, Work Plan 35073

Responsible Party: Air Controls, Inc
2115 2nd Avenue North
Billings, MT 59101
Contact: Chris Schaff
(406) 690-3513
chris@aircontrols.com

Dear Mr. Shearer:

On behalf of Chris Schaff, Resource Technologies, Inc. (RTI) is submitting the following Work Plan (WP) and budget for Remedial Investigation at the former Air Controls, Inc. property located at 2109 1st Ave North, Billings, Montana. Proposed activities are intended to provide data to aid in assessing potential soil and groundwater impacts associated with Release 6739 that was discovered when three underground storage tanks (USTs) were found on site during construction activities. This WP was prepared pursuant to the Montana Department of Environmental Quality-Petroleum Tank Cleanup Section (MDEQ-PTS) letter to Chris Schaff dated July 25, 2025.

BACKGROUND

The former Air Controls, Inc., located at 2109 1st Ave North, Billings, Montana (the Facility, Figure 1), has a history of commercial and industrial use, as documented in the Phase I and II Environmental Site Assessments (ESAs) conducted by NewFields (2015) and GEM (2023). In 1912, the property was used as a lumber yard associated with the

property to the west. Around 1948, the property was developed as a gasoline service station. Historical aerial imagery indicates that the gasoline service station operated through at least 1975, with six aboveground storage tanks (ASTs), three underground storage tanks (USTs) documented along the southeast and northeast property lines, and a small station building located on the central portion of the site (Figure 2). The ESAs did not confirm the presence of USTs but noted the potential for their presence.

Release 6739:

Release 6739 was discovered on July 9, 2025, when petroleum-stained soil was observed at the edge of an underground storage tank (UST) found during construction at the Facility. On July 10, 2025, a test pit was excavated adjacent to the found tank and a soil sample (AC-1-7) was collected at a depth of seven feet below ground surface. The sample was submitted to Energy laboratories of Billings and was analyzed for Volatile petroleum Hydrocarbons (VPH) and Extractable Petroleum Hydrocarbons (EPH). The sample exhibited detectable concentrations of ethylbenzene, VPH aliphatic and aromatic compounds, and Total Extractable Hydrocarbons (TEH).

Release 6739 was confirmed by the reported concentrations of C9-C10 aromatics, C5-C8 aliphatics, and C9-C12 aliphatics that exceeded the Montana Department of Environmental Quality (DEQ) Petroleum-Release Confirmation Risked-Based Screening Levels (RBSLs) for soil (Table 1 in Montana Risk-Based Corrective Action Guidance for Petroleum Releases, February, 2024).

RTI visited the Facility on July 17, 2025, to investigate the area where a new loading dock was being installed and to collect soil samples. The construction area for the loading dock was located on the west end of the southern edge of the warehouse building located along the northern margin of the Facility, and was approximately 150 feet away from the nearest found tank (UST #1). One five-point composite sample and one discrete sample was collected from the base of the excavated area at a depth of approximately 4 feet bgs. The composite sample exhibited a TEH concentration of 219 mg/kg and fraction results that were well below Tier 1 RBSLs. The discrete sample, submitted for Volatile Petroleum Hydrocarbon (VPH) analysis, did not exhibit any detections of target analytes.

On July 21, 2025, Marketing Specialties, Inc. removed the three found USTs and collected confirmation soil samples beneath each end of each UST (six samples total). Several samples exhibited RBSL exceedances (leaching to groundwater 0-10 feet) for ethylbenzene, naphthalene, C5-C8 aliphatics, C9-C10 aromatics, and C11-C22 aromatics. Soil sampling results are included in Table 1 and laboratory analytical reports are attached.

SCOPE OF WORK

The objectives of the Remedial Investigation are to assess the extent and magnitude of petroleum impacts to soil and groundwater associated with Release 6739. Proposed work tasks include:

- Review Phase I and II ESAs to identify potential areas of potential environmental concern on site;
- Complete 16 soil borings to 25 feet, on a 20-foot grid pattern starting in the southeast corner of the property to assess former UST and AST areas;
- Based on potential areas of interest identified in ESAs and observations made during installation of initial 16 soil borings, complete additional four soil borings at locations to be determined to ensure site is thoroughly assessed;
- Complete four soil borings as groundwater monitoring wells;
- Collect soil samples from soil and monitoring well boreholes and analyze for Volatile Petroleum Hydrocarbons (VPH) and Extractable Petroleum Hydrocarbons (EPH);
- Develop and survey monitoring wells;
- Collect groundwater samples on a semi-annual basis for one year from monitoring wells using low-flow sampling methods;
- Submit all samples for volatile petroleum hydrocarbons (VPH), extractable petroleum hydrocarbon screen (EPH Screen) analyses;
- Submit water samples from first sampling event for 1,2 dichloroethane (1,2 DCA) and ethylene dibromide analyses;
- Validate analytical data using DEQ Data Validation Summary Form;
- After first sampling event, submit a Remedial Investigation Report;
- After second sampling event, prepare Release Closure Plan (RCP) if necessary;
- After second sampling event, Prepare Groundwater Monitoring Report;

Work tasks are described in the following sections.

Project Management

RTI will manage and coordinate all aspects of the project including planning, collection of samples, analysis of data, and reporting. Work plan tasks and laboratory reports will be discussed with DEQ's project manager; agreed upon work plan modifications will be submitted in writing as required to complete the work plan objectives.

RTI will prepare a site-specific Health & Safety Plan for the planned field activities. A work zone will be established around work areas and support vehicles during boring and sampling activities to reroute traffic and provide pedestrian control.

Soil Borings

Soil borings will be completed with direct-push methods and soil samples will be collected continuously in 5-foot acetate sleeves inserted in a core barrel. Soil borehole depths are anticipated to be a maximum of 25 feet. The boreholes will be advanced to the soil-groundwater interface if no impacts are encountered and will be advanced to greater depths if soil impacts are encountered that extend vertically below the soil-groundwater interface until the vertical limit of impacts is reached. Monitoring-well borehole depths are expected to be 25 feet. Soil borehole and monitoring-well locations are shown in Figure 3.

Soil characteristics (including color, texture, moisture content, etc.) in each borehole will be documented by the RTI scientist supervising drilling activities using Unified Soil Classification System on a soil borehole log.

Soil samples will be field screened for the presence of organic vapors using a photoionization detector (PID) and standard headspace methods. In each borehole, the soil sample from the vadose zone exhibiting the highest PID reading, the sample collected at the soil groundwater interface, and the sample representing the lower vertical limit of soil impacts will be submitted for laboratory analysis. If numerous discrete strata with soil impacts are encountered, soil samples representing the worst case (highest PID reading), and lower vertical limit of each discrete impacted interval will be submitted for laboratory analysis. If soil exhibiting elevated PID readings is not encountered, only the samples from the soil-groundwater interface and the bottom depth will be submitted for laboratory analysis.

All downhole drilling and sampling equipment will be pressure washed with hot water prior to initiating the investigation and between locations to prevent possible cross-contamination.

Laboratory Analysis. Soil samples will be placed on ice and transported under chain-of-custody procedures to the Energy Laboratories for VPH and EPH analyses within the specified holding times.

Monitoring Well Installation

The monitoring wells will be constructed using two-inch schedule 40 PVC casing and 0.020-inch pre-pack well screen. Screen length will be 15-feet and will be positioned to intercept the water table allowing for seasonal fluctuations. Well depths are expected to be 25 feet and screened from 25 feet to 10 feet bgs. The remainder of the borehole will be completed with schedule 40 PVC solid riser pipe to grade. A filter pack composed of

8/12 silica sand will be placed in the borehole annulus to a depth of no less than two feet above the screen. A bentonite seal will be placed above the sand filter pack. The well will be fitted with a locking expandable well cap, and the wellhead will be completed in a traffic-rated flush-mount manhole set in concrete.

Well Development. The newly installed monitoring wells will be developed by surging and pumping to remove sediment. Pumping will continue until either the water becomes clear or until the visual turbidity of the groundwater no longer improves. The wells will be allowed to equilibrate for at least 24 hours prior to sampling.

Well Surveying and Mapping. The new and existing wells will be surveyed by a licensed Public Land Surveyor. Vertical control based on a USGS benchmark and elevation will be reported to the nearest 0.01 feet. Locations (horizontal control) of the monitoring wells will be measured relative to site features (buildings, road boundaries, utilities, etc.).

Groundwater Sampling

Groundwater samples will be collected from new monitoring wells on a semi-annual basis for one year. Samples will be collected at low groundwater (fall 2025 to spring 2026) and high groundwater (late spring to summer 2026).

Before purging, depth to water measurements will be collected from all site monitoring wells with an electronic water level sounder to facilitate determination of groundwater flow direction and gradient.

Groundwater samples will be collected using low flow collection methodologies. Monitoring wells will be purged and sampled with a 2-inch variable-speed, stainless steel submersible sampling pump and clean high-density polyethylene tubing. The pump intake will be situated three to four feet below the measured water level within the screened interval. Prior to sampling, each well will be purged at the lowest sustainable pumping rate. Purge water will be discharged to a flow cell where water quality parameters; including temperature, pH, conductivity, dissolved oxygen (DO), oxidation/reduction potential (ORP), and turbidity will be monitored and recorded after every liter purged (every two to four minutes) on a sampling log. An electronic water level sounder will be inserted in the well and suspended just above the static water level to facilitate water level monitoring throughout purging. Purge volume will be measured in a graduated cylinder. When water quality parameters stabilize for three successive readings of the water quality field parameters, the sample line will be severed at the flow cell inlet for sample collection into laboratory provided containers.

Groundwater samples will be submitted to Energy Laboratories of Billings for VPH and EPH Screen analysis. Samples exhibiting a total extractable hydrocarbon (TEH) concentration greater than 1,000 micrograms per liter ($\mu\text{g/L}$) will be further analyzed for EPH aliphatic and aromatic fractions. During the first sampling event, samples will also be analyzed for the lead scavengers 1,2 DCA and ethylene dibromide. If no lead

scavengers are detected during the first sampling event, analysis for those compounds may be discontinued during the second sampling event.

Purge water will be handled in accordance with the Options for Discharge of Hydrocarbon Contaminated Wastewater Technical Guidance Document. Disposable vinyl tubing and latex gloves will be disposed of in an onsite dumpster.

Decontamination

After each water level measurement, the probes will be decontaminated using a detergent wash followed by a distilled water rinse. Following sample collection at each location, sampling pumps, and cables, will be decontaminated by cycling the pump in a detergent wash, tap water rinse and distilled water final rinse.

Investigation Derived Waste Management

Drill cuttings exhibiting evidence of petroleum impacts (strong odors, elevated PID readings) will be placed in 55-gallon drums pending characterization and proper disposal. Clean drill cuttings will be spread on the ground surface on site.

Purge water will be handled and disposed of in accordance with the MDEQ Purgewater Disposal Flow Chart.

Solid waste including gloves, pump tubing, paper towels, etc. will be disposed of in a municipal solid waste receptacle.

Data Validation

All laboratory data generated under this workplan will be validated using the DEQ Data Validation Summary Form (DVSFs). DVSFs will be appended to reports.

Release Closure Plan

Based on historic and newly collected data, RTI will prepare a Release Closure Plan (RCP) using the DEQ RCP format if site conditions indicate additional monitoring or corrective action is necessary. RTI will discuss the findings of the RCP with the DEQ case manager to facilitate identifying the preferred corrective action for mitigating residual groundwater impacts at the site.

Evaluation and Reporting

Upon completion of soil boring/monitoring well installation and the first of two semi-annual groundwater sampling events, and receipt of analytical data, RTI will prepare and submit a Remedial Investigation Report that will incorporate data generated under this work plan. The report will include the following:

- Facility map(s) showing site layout, utilities, locations of monitoring wells, potentiometric surface, dissolved contaminant distribution, and dissolved contaminant plumes;
- Borehole logs and well construction details;
- Tabulated summaries of soil analytical data (including soil results collected to date) and new and cumulative groundwater sampling data (laboratory analytical results and data validation checklists will be appended to the report);
- Recommendations for additional remediation work required to resolve the Releases.

Following the second semi-annual groundwater sampling event, RTI will prepare a Groundwater Monitoring Report that will include:

- Tabulated groundwater analytical and elevation data including cumulative data,
- Potentiometric surface maps,
- Contaminant distribution maps, and,
- Field data sheets, laboratory analytical reports, and data validation summary forms,
- RCP will be summarized in the report, and a copy of the RCP will be appended to the report.

Electronic copies of the reports will be submitted to MDEQ and the responsible party.

SCHEDULE

Soil boring/monitoring well installation and the first groundwater sampling will be scheduled for fall 2025 or spring 2026 (low groundwater). The second groundwater sampling event will be scheduled for late spring to summer 2026 (high groundwater).

BUDGET

A breakdown of costs associated with RI activities is attached. Bids for soil boring and well installation services were obtained from three direct-push boring contractors. WCEC of Billings provided the low bid. Subcontractor bids are attached. Costs associated with groundwater sampling are provided on a unit cost basis and are included in the attached Groundwater Monitoring Tool worksheet. The total cost for RI and groundwater sampling activities is \$71,464.83. If you have any questions or comments regarding this workplan, please do not hesitate to call.

Respectfully Submitted,
Resource Technologies, Inc.



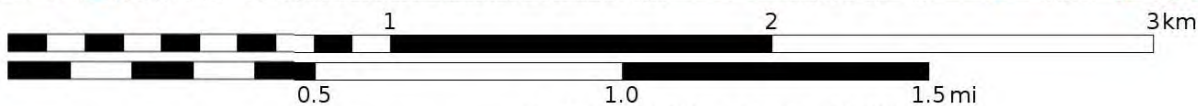
Joe Laudon
Hydrogeologist

Attachments

cc: Chris Schaff



Mercator Projection
WGS84
UTM Zone 12T



Scale **1:18943** 1 inch = 1579 feet *Map Scale holds true if printed on A portrait (8.5" x 11") sheet.

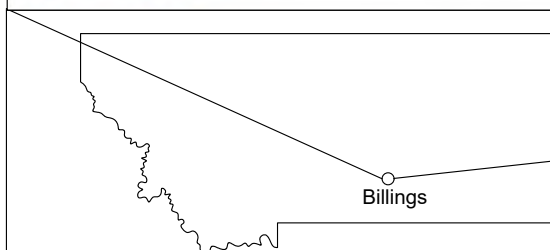
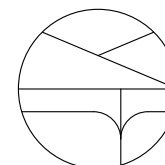
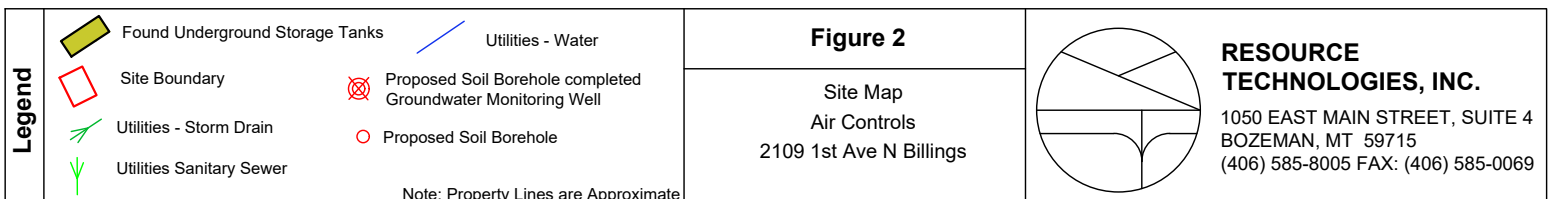
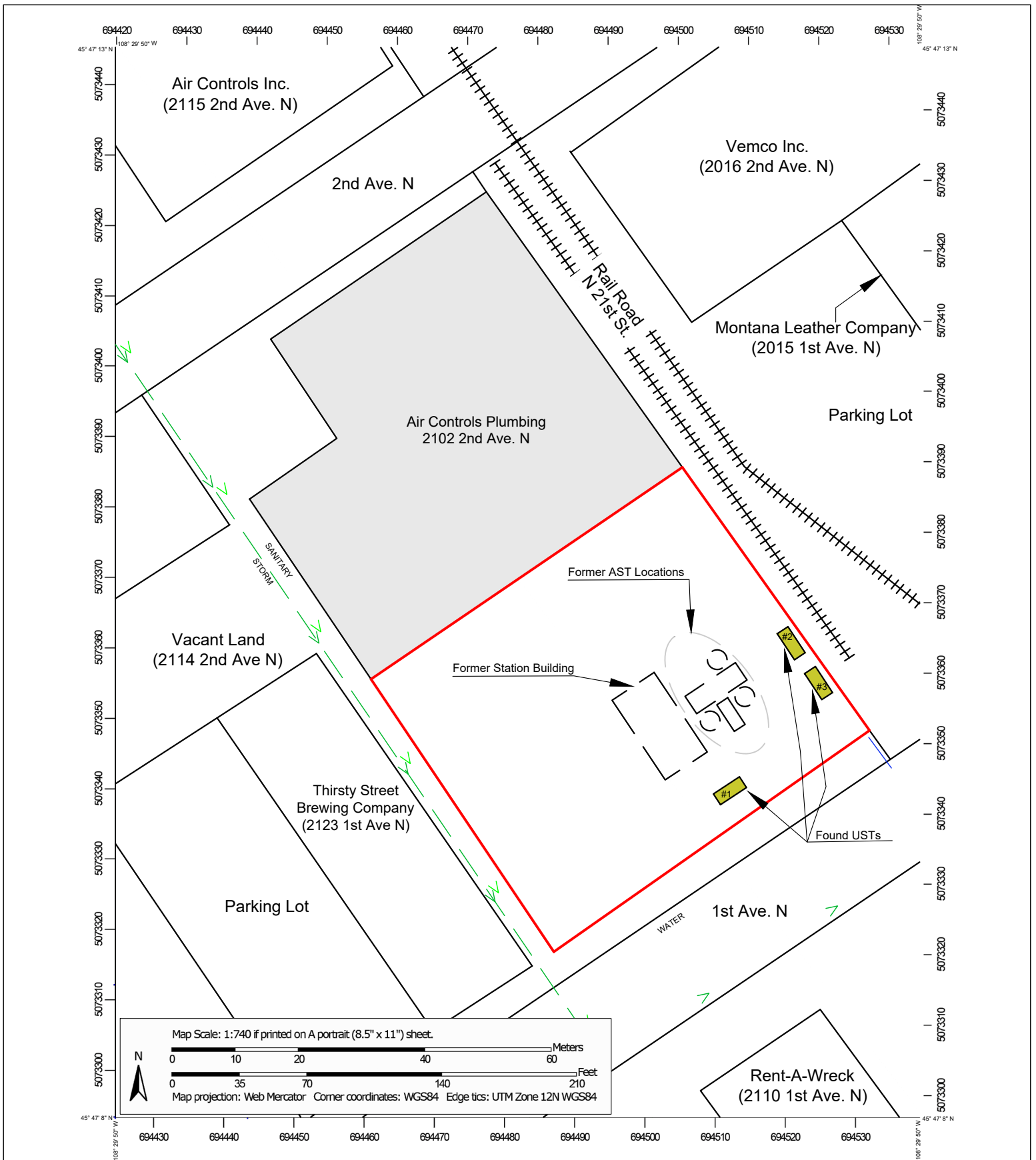


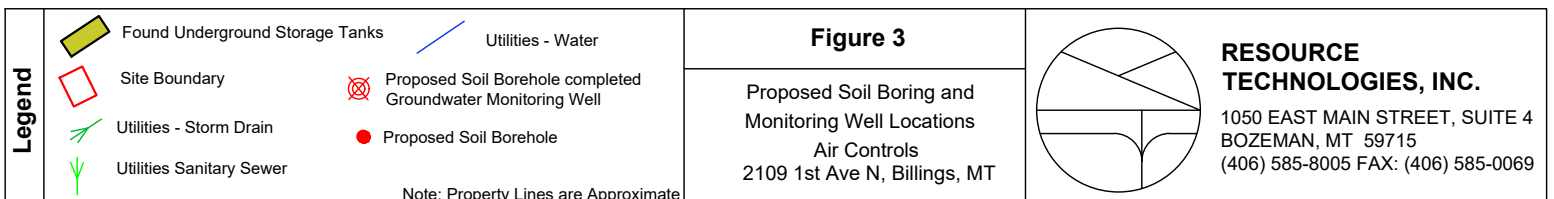
Figure 1

Air Controls UST Release
Site Location Map
Release ID #32601
Facility ID #009-32601
2109 1st Ave N Billings, MT



**RESOURCE
TECHNOLOGIES, INC.**
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Cost Estimate and Groundwater Monitoring Tool

Laboratory Analytical Reports



ANALYTICAL SUMMARY REPORT

July 14, 2025

Resource Technologies Inc
1050 E Main St Ste 4
Bozeman, MT 59715-3823

Work Order: B25070892
Project Name: Not Indicated

Energy Laboratories Inc Billings MT received the following 1 sample for Resource Technologies Inc on 7/10/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25070892-001	AC-1-7	07/10/25 15:30	07/10/25	Soil	EPH-Ultrasonic Extraction SW3550C Methanol Extraction for Volatiles SW5035 Hydrocarbons, Extractable Petroleum-Scrn Volatile Petroleum Hydrocarbons Percent Moisture

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Resource Technologies Inc
Project: Not Indicated
Lab ID: B25070892-001
Client Sample ID: AC-1-7

Report Date: 07/14/25
Collection Date: 07/10/25 15:30
Date Received: 07/10/25
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	20.2	wt%		0.2		D2974	07/11/25 13:21 / jph
PETROLEUM HYDROCARBONS-VOLATILE (VPH)							
Methyl tert-butyl ether (MTBE)	ND	mg/kg-dry	D	1.3	0.078	MA-VPH	07/11/25 13:01 / jp
Benzene	ND	mg/kg-dry	D	0.63	0.07	MA-VPH	07/11/25 13:01 / jp
Toluene	ND	mg/kg-dry	D	0.70	21	MA-VPH	07/11/25 13:01 / jp
Ethylbenzene	7.6	mg/kg-dry	*	0.63	6.4	MA-VPH	07/11/25 13:01 / jp
m+p-Xylenes	ND	mg/kg-dry	D	1.0		MA-VPH	07/11/25 13:01 / jp
o-Xylene	ND	mg/kg-dry	D	0.65		MA-VPH	07/11/25 13:01 / jp
Xylenes, Total	ND	mg/kg-dry	D	0.65	72	MA-VPH	07/11/25 13:01 / jp
Naphthalene	ND	mg/kg-dry	D	1.3	2.2	MA-VPH	07/11/25 13:01 / jp
C9 to C10 Aromatics	228	mg/kg-dry	*	25	130	MA-VPH	07/11/25 13:01 / jp
C5 to C8 Aliphatics	133	mg/kg-dry	*	25	52	MA-VPH	07/11/25 13:01 / jp
C9 to C12 Aliphatics	390	mg/kg-dry	*	25	77	MA-VPH	07/11/25 13:01 / jp
Total Purgeable Hydrocarbons	567	mg/kg-dry		25		MA-VPH	07/11/25 13:01 / jp
Surr: VPH Aromatics Surrogate	171	%REC	S	70-130		MA-VPH	07/11/25 13:01 / jp
Surr: VPH Aliphatics Surrogate	229	%REC	S	70-130		MA-VPH	07/11/25 13:01 / jp
- Note 1: The C5 to C8 Aliphatics value is corrected for aromatic constituents Benzene and Toluene. - Note 2: The C9 to C12 Aliphatics value is corrected for aromatic constituents Ethylbenzene, m+p-Xylenes, o-Xylene and C9 to C10 Aromatics. - * = The reported value exceeds the Maximum Contaminant Limit (MCL). The MCLs listed for target analyte and hydrocarbon range values are the most conservative Montana DEQ RBSLs. These limits may not apply to your samples. - S = The Surrogate recovery was outside QC advisory limits due to positive sample matrix interference.							

EXTRACTABLE PETROLEUM HYDROCARBONS-SCREEN

Total Extractable Hydrocarbons	83	mg/kg-dry		12	200	SW8015M	07/12/25 17:15 / jlb
Surr: o-Terphenyl	79.0	%REC		40-140		SW8015M	07/12/25 17:15 / jlb
- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.							

Report Definitions:
 RL - Analyte Reporting Limit
 QCL - Quality Control Limit
 * - The result exceeds the Maximum Contaminant Level (MCL)
 S - Spike recovery outside of advisory limits

MCL - Maximum Contaminant Level
 ND - Not detected at the Reporting Limit (RL)
 D - Reporting Limit (RL) increased due to sample matrix

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25070892

Report Date: 07/14/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8015M										Batch: 201352
Lab ID: MB-201352	2	Method Blank						Run: GCFID-HP3-B_250711A		07/11/25 18:26
Total Extractable Hydrocarbons		ND	mg/kg	10						
Surr: o-Terphenyl				0.067	85	40	140			
Lab ID: LCS-201352	2	Laboratory Control Sample						Run: GCFID-HP3-B_250711A		07/11/25 19:10
Total Extractable Hydrocarbons		189	mg/kg	10	89	60	140			
Surr: o-Terphenyl				0.067	85	40	140			
Lab ID: LCSD-201352	2	Laboratory Control Sample Duplicate						Run: GCFID-HP3-B_250711A		07/11/25 19:54
Total Extractable Hydrocarbons		187	mg/kg	10	88	60	140	1.1	20	
Surr: o-Terphenyl				0.067	84	40	140			
Lab ID: B25070724-002BMS	2	Sample Matrix Spike						Run: GCFID-HP3-B_250711A		07/11/25 21:23
Total Extractable Hydrocarbons		230	mg/kg-dry	11	87	60	140			
Surr: o-Terphenyl				0.073	85	40	140			
Lab ID: B25070724-002BMSD	2	Sample Matrix Spike Duplicate						Run: GCFID-HP3-B_250711A		07/11/25 22:07
Total Extractable Hydrocarbons		233	mg/kg-dry	11	89	60	140	1.3	20	
Surr: o-Terphenyl				0.073	84	40	140			
Method: SW8015M										Analytical Run: R445776
Lab ID: CCV_0711HP335r-S	15	Continuing Calibration Verification Standard								07/12/25 13:34
n-Nonane		7.12	mg/kg		107	75	125			
n-Decane		7.02	mg/kg		105	75	125			
n-Dodecane		6.90	mg/kg		104	75	125			
n-Tetradecane		6.86	mg/kg		103	75	125			
n-Hexadecane		6.81	mg/kg		102	75	125			
n-Octadecane		6.87	mg/kg		103	75	125			
n-Nonadecane		6.86	mg/kg		103	75	125			
n-Eicosane		6.89	mg/kg		103	75	125			
n-Docosane		6.88	mg/kg		103	75	125			
n-Tetracosane		6.90	mg/kg		103	75	125			
n-Hexacosane		6.90	mg/kg		103	75	125			
n-Octacosane		6.89	mg/kg		103	75	125			
n-Triacontane		6.86	mg/kg		103	75	125			
n-Hexatriacontane		6.87	mg/kg		103	75	125			
Surr: o-Terphenyl				0.067	101	75	125			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25070892

Report Date: 07/11/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-VPH										Batch: 201368
Lab ID: LCS-201368	16	Laboratory Control Sample				Run: AT1_250711A			07/11/25 09:38	
1,2,4-Trimethylbenzene		2.49	mg/kg	0.10	99	70	130			
2,2,4-Trimethylpentane		2.41	mg/kg	0.10	96	70	130			
2-Methylpentane		2.42	mg/kg	0.10	97	70	130			
n-Butylcyclohexane		2.38	mg/kg	0.10	95	70	130			
n-Decane		2.13	mg/kg	0.10	85	70	130			
n-Pentane		2.14	mg/kg	0.10	86	70	130			
Methyl tert-butyl ether (MTBE)		2.70	mg/kg	0.10	108	70	130			
Benzene		2.43	mg/kg	0.050	97	70	130			
Toluene		2.42	mg/kg	0.050	97	70	130			
Ethylbenzene		2.46	mg/kg	0.050	98	70	130			
m+p-Xylenes		5.01	mg/kg	0.050	100	70	130			
o-Xylene		2.49	mg/kg	0.050	100	70	130			
Naphthalene		2.62	mg/kg	0.10	105	70	130			
Total Purgeable Hydrocarbons		35.5	mg/kg	2.0	95	70	130			
Surr: VPH Aromatics Surrogate				0.10	104	70	130			
Surr: VPH Aliphatics Surrogate				0.10	104	70	130			
Lab ID: MB-201368	14	Method Blank				Run: AT1_250711A			07/11/25 10:41	
Methyl tert-butyl ether (MTBE)		ND	mg/kg	0.10						
Benzene		ND	mg/kg	0.050						
Toluene		ND	mg/kg	0.050						
Ethylbenzene		ND	mg/kg	0.050						
m+p-Xylenes		ND	mg/kg	0.050						
o-Xylene		ND	mg/kg	0.050						
Xylenes, Total		ND	mg/kg	0.050						
Naphthalene		ND	mg/kg	0.10						
C9 to C10 Aromatics		ND	mg/kg	2.0						
C5 to C8 Aliphatics		ND	mg/kg	2.0						
C9 to C12 Aliphatics		ND	mg/kg	2.0						
Total Purgeable Hydrocarbons		ND	mg/kg	2.0						
Surr: VPH Aromatics Surrogate				0.10	106	70	130			
Surr: VPH Aliphatics Surrogate				0.10	106	70	130			
Lab ID: B25070892-001AMS	10	Sample Matrix Spike				Run: AT1_250711A			07/11/25 13:33	
Methyl tert-butyl ether (MTBE)		2.97	mg/kg-dry	1.3	95	70	130			
Benzene		2.81	mg/kg-dry	0.63	90	70	130			
Toluene		3.66	mg/kg-dry	0.63	117	70	130			
Ethylbenzene		10.6	mg/kg-dry	0.63	96	70	130			
m+p-Xylenes		6.85	mg/kg-dry	0.63	109	70	130			
o-Xylene		4.06	mg/kg-dry	0.63	129	70	130			
Naphthalene		2.98	mg/kg-dry	1.3	95	70	130			
Total Purgeable Hydrocarbons		632	mg/kg-dry	25	138	70	130			S
Surr: VPH Aromatics Surrogate				1.3	184	70	130			S
Surr: VPH Aliphatics Surrogate				1.3	258	70	130			S

- S=The Surrogate recovery was outside QC advisory limits due to positive sample matrix interference.

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25070892

Report Date: 07/11/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-VPH										Batch: 201368
Lab ID: B25070892-001AMSD	10	Sample Matrix Spike Duplicate				Run: AT1_250711A				07/11/25 14:05
Methyl tert-butyl ether (MTBE)		4.03	mg/kg-dry	1.3	127	70	130	30	20	R
Benzene		3.72	mg/kg-dry	0.63	118	70	130	28	20	R
Toluene		4.29	mg/kg-dry	0.63	135	70	130	16	20	S
Ethylbenzene		9.15	mg/kg-dry	0.63	50	70	130	15	20	S
m+p-Xylenes		8.42	mg/kg-dry	0.63	133	70	130	21	20	SR
o-Xylene		4.55	mg/kg-dry	0.63	144	70	130	11	20	S
Naphthalene		4.21	mg/kg-dry	1.3	133	70	130	34	20	SR
Total Purgeable Hydrocarbons		510	mg/kg-dry	25	-119	70	130	21	20	SR
Surr: VPH Aromatics Surrogate				1.3	153	70	130			S
Surr: VPH Aliphatics Surrogate				1.3	201	70	130			S
- S=The Surrogate recovery was outside QC advisory limits due to positive sample matrix interference.										

Method: MA-VPH							Analytical Run: R445745		
Lab ID:	CCV_0711AT105r-S	15 Continuing Calibration Verification Standard					07/11/25 09:06		
1,2,4-Trimethylbenzene		2.47	mg/kg	0.10	99	75	125		
2,2,4-Trimethylpentane		2.36	mg/kg	0.10	95	75	125		
2-Methylpentane		2.30	mg/kg	0.10	92	75	125		
n-Butylcyclohexane		2.32	mg/kg	0.10	93	75	125		
n-Decane		2.08	mg/kg	0.10	83	75	125		
n-Pentane		2.06	mg/kg	0.10	82	75	125		
Methyl tert-butyl ether (MTBE)		2.69	mg/kg	0.10	108	75	125		
Benzene		2.44	mg/kg	0.050	98	75	125		
Toluene		2.44	mg/kg	0.050	98	75	125		
Ethylbenzene		2.49	mg/kg	0.050	99	75	125		
m+p-Xylenes		4.97	mg/kg	0.050	99	75	125		
o-Xylene		2.48	mg/kg	0.050	99	75	125		
Naphthalene		2.57	mg/kg	0.10	103	75	125		
Surr: VPH Aromatics Surrogate				0.10	96	75	125		
Surr: VPH Aliphatics Surrogate				0.10	97	75	125		

Qualifiers:

RL - Analyte Reporting Limit

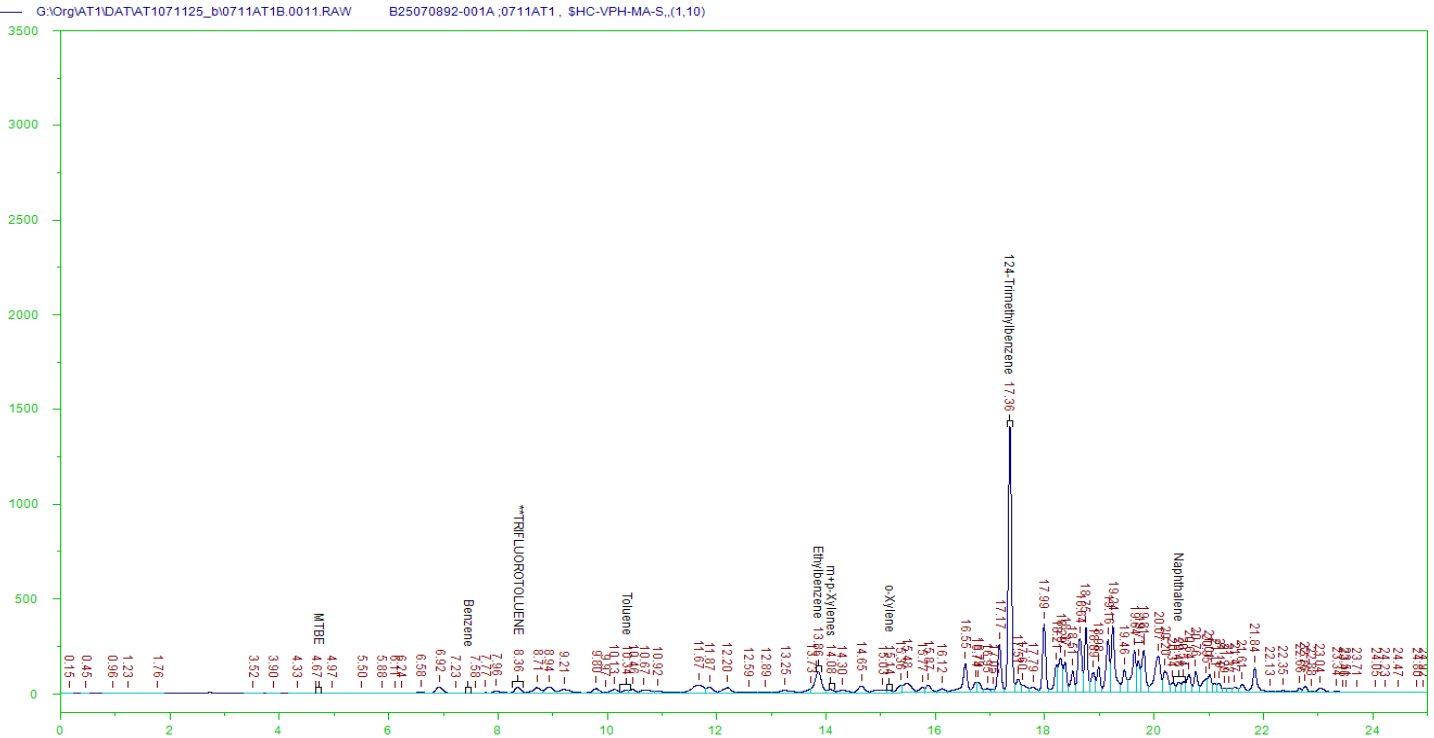
R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

B25070892 - B25070892-001A

Batch ID: 201368



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25070892-001A ;0711AT1 , \$HC-VPH-MA-S,,(1,10)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\AT1\DAT\AT1071125_B\0711AT1B.0011.RAW
Date & Time Acquired: 7/11/2025 1:01:24 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\AT1\METHODS\250522V892-1B%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\AT1\CALS\250522VPH_MAB.CAL
Sample Weight: 50 Dilution: 10 S.A.: 1

Mean RF for C9 to C10 Aromatic Hydrocarbons: 31412.287

Rt range for C9 to C10 Aromatics: 15.206 to 20.362999

Aromatic Hydrocarbon Range Area and Quantitation:

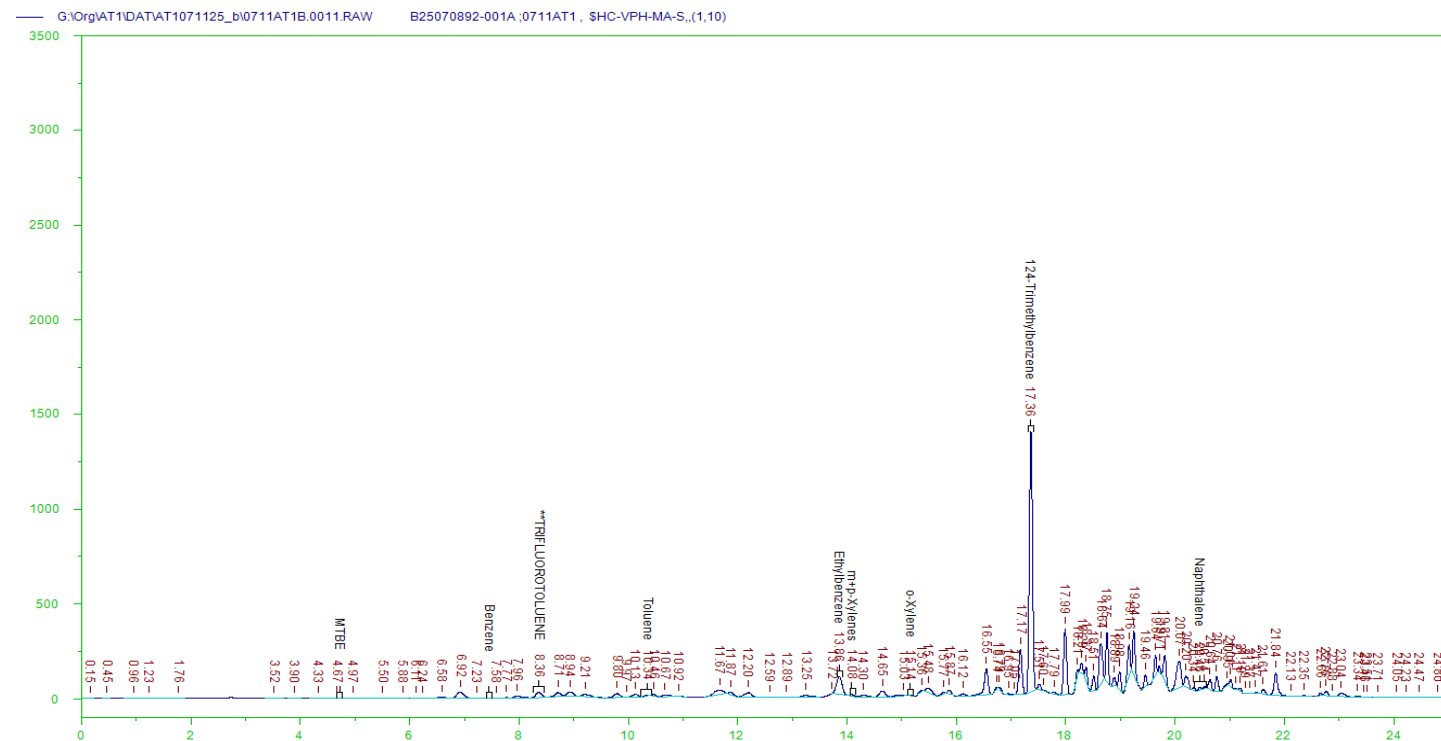
C9-C10 Aromatics Area: 28518384 C9-C10 Aromatics Amount: 181.5747

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	0.000	0.000	0.000	0	1.000	U
Benzene	0.000	0.000	0.000	0	0.500	U
Toluene	10.341	-1.964	-1.985	95801	0.532	< 0.70 jmp 7/11/25
Ethylbenzene	13.857	-5.519	-5.501	967536	6.054	
m+p-Xylenes	14.078	-5.751	-5.722	139173	0.765	< 1.0 jmp 7/11/25
o-Xylene	15.142	-6.802	-6.786	78245	0.511	< 0.65 jmp 7/11/25
124-Trimethylbenzene	17.362	-9.011	-9.006	5827068	36.172	
Naphthalene	20.455	-12.109	-12.099	274780	2.541	No jmp 7/11/25

SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.356	2.500	259883	4.261	170.43	70-130

B25070892 - B25070892-001A

Batch ID: 201368



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25070892-001A ;0711AT1 , \$HC-VPH-MA-S,,(1,10)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\AT1\DAT\AT1071125_B\0711AT1B.0011.RAW
Date & Time Acquired: 7/11/2025 1:01:24 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\AT1\METHODS\250522V892-1NB%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\AT1\CALS\250522VPH_MAB.CAL
Sample Weight: 50 Dilution: 10 S.A.: 1

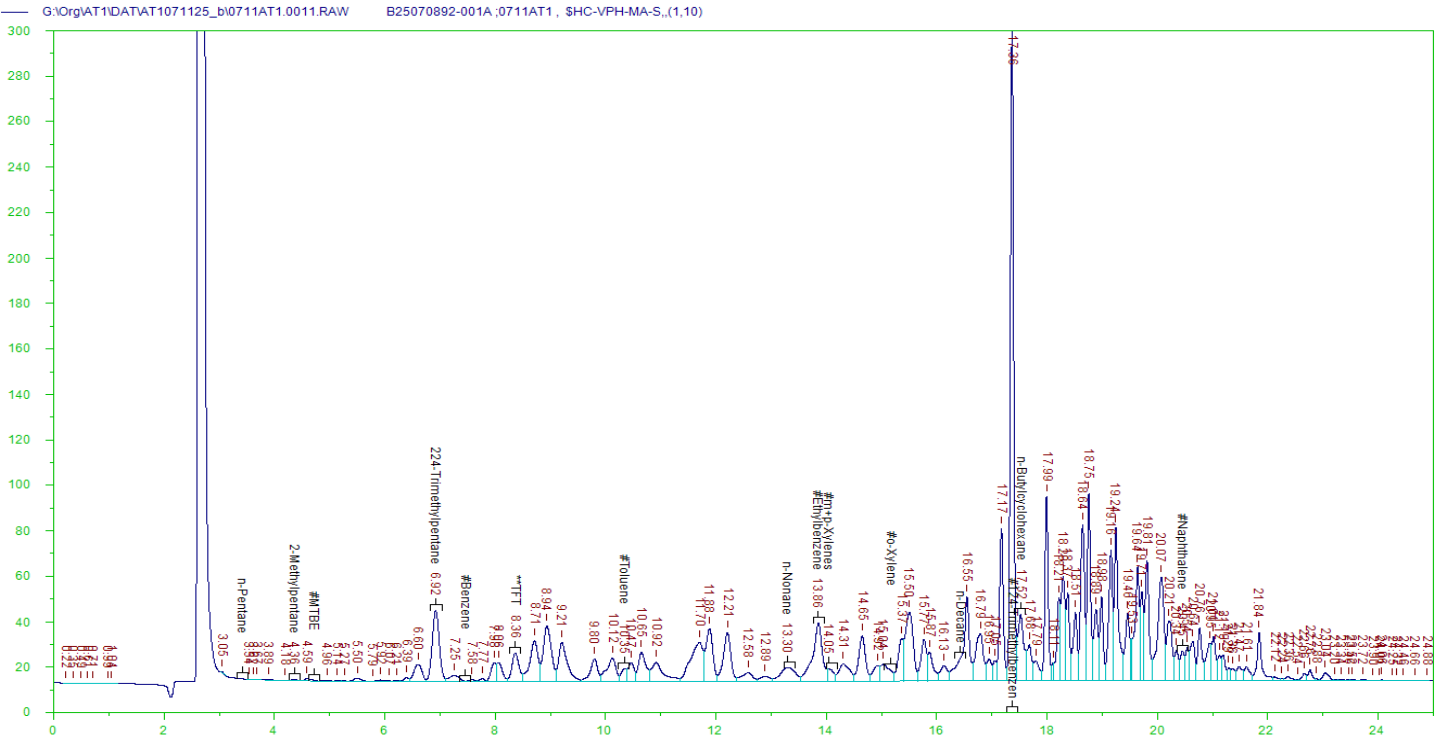
Mean RF for C9 to C10 Aromatic Hydrocarbons: 31412.287
Rt range for C9 to C10 Aromatics: 15.206 to 20.362999
Aromatic Hydrocarbon Range Area and Quantitation:
C9-C10 Aromatics Area: 15553604 C9-C10 Aromatics Amount: 99.028786

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	0.000	0.000	0.000	0	1.000	U
Benzene	0.000	0.000	0.000	0	0.500	U
Toluene	10.341	10.341	10.341	14810	0.500	U
Ethylbenzene	13.857	5.519	5.501	673859	4.216	
m,p Xylenes	14.078	14.078	14.078	42527	1.000	U
o-Xylene	15.142	15.142	15.142	6424	0.500	U
124-Trimethylbenzene	17.362	9.011	9.006	5487744	34.066	
Naphthalene	20.455	20.455	20.455	43899	1.000	U

SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.356	2.500	200256	3.283	131.33	70-130

B25070892 - B25070892-001A

Batch ID: 201368

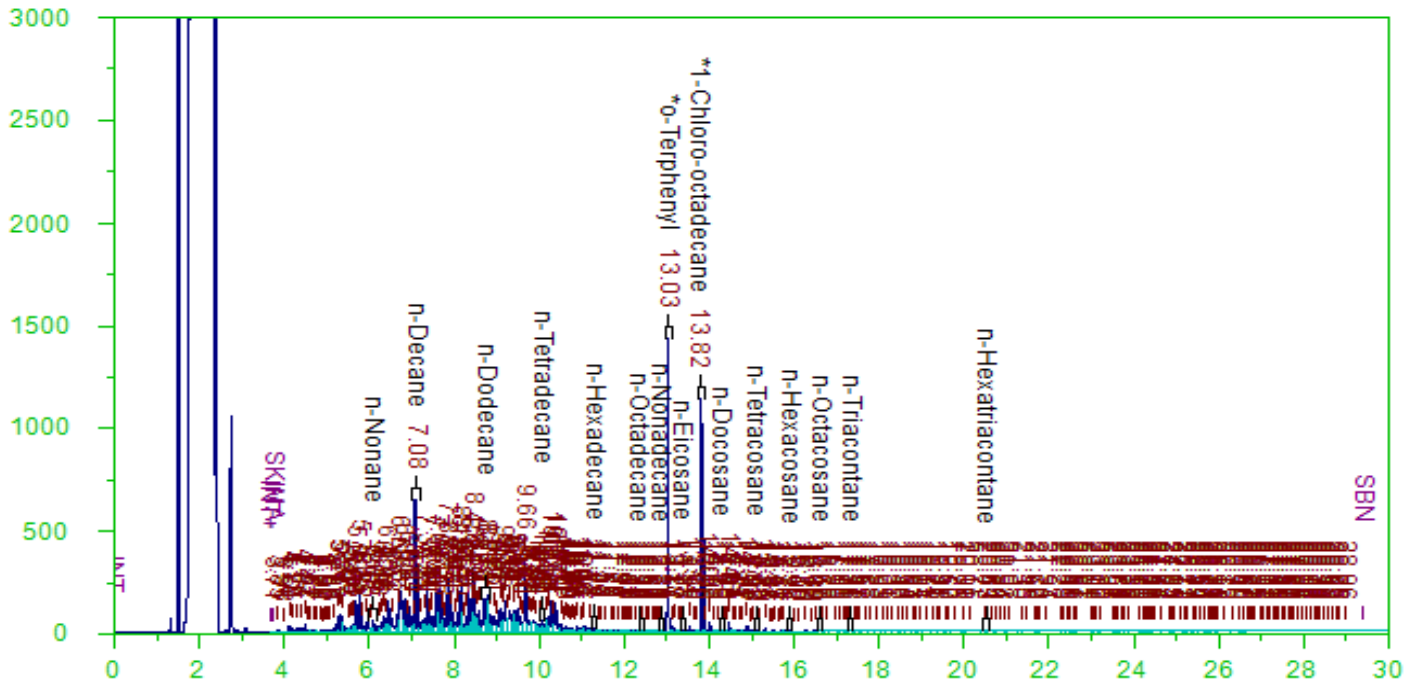


B25070892 - B25070892-001A

Batch ID: 201352

G:\org\HP3\DAT\HP3071125_b\0711HP3.0040.RAW

B25070892-001A ;0711HP3 , \$HC-EPH-SCRN-S,



EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) SCREENING ANALYSIS CHROMATOGRAM

Sample Name: B25070892-001A ;0711HP3 , \$HC-EPH-SCRN-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP3\DAT\HP3071125_B\0711HP3.0040.RAW
Date & Time Acquired: 7/12/2025 5:15:54 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP3\METHODS\S3_SCN-071140-LB-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP3\CALS\8015M_SC250702LB.CAL
Sample Weight: 30.09 Dilution: 2 S.A.: 1

Mean RF for C9 to C18 hydrocarbons: 25279.6200
Mean RF for C19 to C36 Hydrocarbons: 25723.5100
Mean RF for Total Extractable Hydrocarbons: 25501.5700
Rt range for Diesel Range Organics: 6.99 to 17.36
Rt range for C9 to C18 Hydrocarbons: 6.00 to 12.97
Rt range for C19 to C36 Hydrocarbons: 13.01 to 20.62

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*o-Terphenyl	13.031	2365550	6.647	5.359	80.63	-
*1-Chloro-octadecane	13.816	1998594	6.647	5.774	86.86	-

TEH Area: 25269924 TEH Amount: 65.86351
C9-C18 Area: 19686578 C9-C18 Amount: 51.76157
C19-C36 Area: 2164732 C19-C36 Amount: 5.5934744



Work Order Receipt Checklist

Resource Technologies Inc

B25070892

Login completed by: Danielle N. Harris

Date Received: 7/10/2025

Reviewed by: cindy

Received by: DNH

Reviewed Date: 7/11/2025

Carrier name: Hand Deliver

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☒	Not Applicable ☐
Container/Temp Blank temperature:	15.9°C On Ice - From Field		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☒

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

RUSH ASAP per drop off with Mark Johnson. DNH 07/10/25

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT  	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY 	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090



www.energylab.com

Page 1 of 1

Report Information (if different than Account Information)

Company/Name _____
 Contact _____
 Phone _____
 Mailing Address _____
 City, State, Zip _____
 Email _____
 Receive Report ☐ Hard Copy ☐ Email
 Special Report/Formats:
☐ LEVEL IV ☐ NELAC ☐ EDD/EDT (contact laboratory) ☐ Other _____

Analysis Requested

Matrix Codes

A - Air
W - Water
S - Soils/ Solids
V - Vegetation
B - Bioassay
O - Other
DW - Drinking Water

All turnaround times are standard unless marked as RUSH.

[illegible]

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
LABORATORY USE ONLY						
Shipped By	Cooler ID(s)	Custody Seals	Intact	Receipt Temp °C	Temp Blank	On Ice
		Y N C B	Y N		Y N	Y N
					Payment Type	Amount
					CC Cash Check	\$
						Receipt Number (cash/check only)

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.



ANALYTICAL SUMMARY REPORT

August 01, 2025

Resource Technologies Inc
1050 E Main St Ste 4
Bozeman, MT 59715-3823

Work Order: B25071531

Project Name: Air Controls

Energy Laboratories Inc Billings MT received the following 2 samples for Resource Technologies Inc on 7/17/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25071531-001	AC-Loading Dock - Comp	07/17/25 14:30	07/17/25	Solid	EPH-Ultrasonic Extraction SW3550C EPH Fractionation Hydrocarbons, Aliphatic Extractable Petroleum Hydrocarbons, Aromatic Extractable Petroleum Hydrocarbons, Extractable Petroleum-Scrn Percent Moisture
B25071531-002	AC-Loading Dock - Grab	07/17/25 14:32	07/17/25	Soil	Methanol Extraction for Volatiles SW5035 Volatile Petroleum Hydrocarbons Percent Moisture

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.



CLIENT: Resource Technologies Inc
Project: Air Controls
Work Order: B25071531

Revised Date: 08/01/25

Report Date: 07/25/25

CASE NARRATIVE

Revised Date: 08/01/2025

This work order was revised to add fractionation without PAHs to the following sample(s) per client request on 07/25/25. The report has been revised and replaces the previously issued report dated 07/25/2025 in its entirety.

B25071531-001A AC-Loading Dock - Comp



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Resource Technologies Inc
Project: Air Controls
Lab ID: B25071531-001
Client Sample ID: AC-Loading Dock - Comp

Revised Date: 08/01/25
Report Date: 07/25/25
Collection Date: 07/17/25 14:30
Date Received: 07/17/25
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	6.0	wt%		0.2		D2974	07/18/25 07:41 / rlk
EXTRACTABLE PETROLEUM HYDROCARBONS-SCREEN							
Total Extractable Hydrocarbons	219	mg/kg-dry	*	53	200	SW8015M	07/25/25 08:40 / jph
Surr: o-Terphenyl	94.0	%REC		40-140		SW8015M	07/25/25 08:40 / jph
- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.							
EXTRACTABLE PETROLEUM HYDROCARBONS - ALIPHATICS							
C9 to C18 Aliphatics	ND	mg/kg-dry		11	110	MA-EPH	07/29/25 11:55 / jph
C19 to C36 Aliphatics	29	mg/kg-dry		11	24000	MA-EPH	07/29/25 11:55 / jph
Surr: 1-Chloro-octadecane	82.0	%REC		40-140		MA-EPH	07/29/25 11:55 / jph
EXTRACTABLE PETROLEUM HYDROCARBONS - AROMATICS							
C11 to C22 Aromatics	38	mg/kg-dry		11	370	MA-EPH	07/29/25 12:40 / jph
Total Extractable Hydrocarbons	108	mg/kg-dry		11		MA-EPH	07/29/25 12:40 / jph
Surr: 2-Bromonaphthalene	99.0	%REC		40-140		MA-EPH	07/29/25 12:40 / jph
Surr: 2-Fluorobiphenyl	104	%REC		40-140		MA-EPH	07/29/25 12:40 / jph
Surr: o-Terphenyl	93.0	%REC		40-140		MA-EPH	07/29/25 12:40 / jph
- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.							
- A significant portion of the hydrocarbons measured in the EPH Screening analysis were not recovered from the silica gel fractionation cartridge. Silica gel can act as a cleanup media for non-petroleum hydrocarbons.							

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
* - The result exceeds the Maximum Contaminant Level (MCL)

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Resource Technologies Inc
Project: Air Controls
Lab ID: B25071531-002
Client Sample ID: AC-Loading Dock - Grab

Revised Date: 08/01/25
Report Date: 07/25/25
Collection Date: 07/17/25 14:32
Date Received: 07/17/25
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	12.5	wt%		0.2		D2974	07/21/25 09:09 / rlk
PETROLEUM HYDROCARBONS-VOLATILE (VPH)							
Methyl tert-butyl ether (MTBE)	ND	mg/kg-dry		0.11	0.078	MA-VPH	07/22/25 12:44 / jp
Benzene	ND	mg/kg-dry		0.057	0.07	MA-VPH	07/22/25 12:44 / jp
Toluene	ND	mg/kg-dry		0.057	21	MA-VPH	07/22/25 12:44 / jp
Ethylbenzene	ND	mg/kg-dry		0.057	6.4	MA-VPH	07/22/25 12:44 / jp
m+p-Xylenes	ND	mg/kg-dry		0.057		MA-VPH	07/22/25 12:44 / jp
o-Xylene	ND	mg/kg-dry		0.057		MA-VPH	07/22/25 12:44 / jp
Xylenes, Total	ND	mg/kg-dry		0.057	72	MA-VPH	07/22/25 12:44 / jp
Naphthalene	ND	mg/kg-dry		0.11	2.2	MA-VPH	07/22/25 12:44 / jp
C9 to C10 Aromatics	ND	mg/kg-dry		2.3	130	MA-VPH	07/22/25 12:44 / jp
C5 to C8 Aliphatics	ND	mg/kg-dry		2.3	52	MA-VPH	07/22/25 12:44 / jp
C9 to C12 Aliphatics	ND	mg/kg-dry		2.3	77	MA-VPH	07/22/25 12:44 / jp
Total Purgeable Hydrocarbons	ND	mg/kg-dry		2.3		MA-VPH	07/22/25 12:44 / jp
Surr: VPH Aromatics Surrogate	93.0	%REC		70-130		MA-VPH	07/22/25 12:44 / jp
Surr: VPH Aliphatics Surrogate	96.0	%REC		70-130		MA-VPH	07/22/25 12:44 / jp

- Note 1: The C5 to C8 Aliphatics value is corrected for aromatic constituents Benzene and Toluene.

- Note 2: The C9 to C12 Aliphatics value is corrected for aromatic constituents Ethylbenzene, m+p-Xylenes, o-Xylene and C9 to C10 Aromatics.

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071531

Report Date: 07/25/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-VPH										Batch: 201623
Lab ID: LCS-201623	16	Laboratory Control Sample				Run: PE 1_250721A			07/21/25 14:12	
1,2,4-Trimethylbenzene		2.23	mg/kg	0.10	89	70	130			
2,2,4-Trimethylpentane		2.38	mg/kg	0.10	95	70	130			
2-Methylpentane		2.48	mg/kg	0.10	99	70	130			
n-Butylcyclohexane		2.15	mg/kg	0.10	86	70	130			
n-Decane		1.89	mg/kg	0.10	76	70	130			
n-Pentane		2.41	mg/kg	0.10	96	70	130			
Methyl tert-butyl ether (MTBE)		2.17	mg/kg	0.10	87	70	130			
Benzene		2.27	mg/kg	0.050	91	70	130			
Toluene		2.22	mg/kg	0.050	89	70	130			
Ethylbenzene		2.19	mg/kg	0.050	88	70	130			
m+p-Xylenes		4.59	mg/kg	0.050	92	70	130			
o-Xylene		2.25	mg/kg	0.050	90	70	130			
Naphthalene		2.22	mg/kg	0.10	89	70	130			
Total Purgeable Hydrocarbons		32.7	mg/kg	2.0	87	70	130			
Surr: VPH Aromatics Surrogate				0.10	99	70	130			
Surr: VPH Aliphatics Surrogate				0.10	101	70	130			
Lab ID: MB-201623	14	Method Blank				Run: PE 1_250721A			07/21/25 15:22	
Methyl tert-butyl ether (MTBE)		ND	mg/kg	0.10						
Benzene		ND	mg/kg	0.050						
Toluene		ND	mg/kg	0.050						
Ethylbenzene		ND	mg/kg	0.050						
m+p-Xylenes		ND	mg/kg	0.050						
o-Xylene		ND	mg/kg	0.050						
Xylenes, Total		ND	mg/kg	0.050						
Naphthalene		ND	mg/kg	0.10						
C9 to C10 Aromatics		ND	mg/kg	2.0						
C5 to C8 Aliphatics		ND	mg/kg	2.0						
C9 to C12 Aliphatics		ND	mg/kg	2.0						
Total Purgeable Hydrocarbons		ND	mg/kg	2.0						
Surr: VPH Aromatics Surrogate				0.10	94	70	130			
Surr: VPH Aliphatics Surrogate				0.10	99	70	130			
Lab ID: B25071533-017AMS	10	Sample Matrix Spike				Run: PE 1_250721A			07/21/25 17:05	
Methyl tert-butyl ether (MTBE)		2.52	mg/kg-dry	0.10	97	70	130			
Benzene		2.63	mg/kg-dry	0.052	101	70	130			
Toluene		2.57	mg/kg-dry	0.052	99	70	130			
Ethylbenzene		2.55	mg/kg-dry	0.052	99	70	130			
m+p-Xylenes		5.34	mg/kg-dry	0.052	103	70	130			
o-Xylene		2.66	mg/kg-dry	0.052	103	70	130			
Naphthalene		2.72	mg/kg-dry	0.10	105	70	130			
Total Purgeable Hydrocarbons		67.6	mg/kg-dry	2.1	63	70	130			S
Surr: VPH Aromatics Surrogate				0.10	110	70	130			
Surr: VPH Aliphatics Surrogate				0.10	109	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071531

Report Date: 07/25/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-VPH										Batch: 201623
Lab ID: B25071533-017AMSD	10	Sample Matrix Spike Duplicate				Run: PE 1_250721A			07/21/25 17:40	
Methyl tert-butyl ether (MTBE)		2.38	mg/kg-dry	0.10	92	70	130	5.6	20	
Benzene		2.48	mg/kg-dry	0.052	97	70	130	5.6	20	
Toluene		2.42	mg/kg-dry	0.052	94	70	130	5.7	20	
Ethylbenzene		2.42	mg/kg-dry	0.052	94	70	130	5.5	20	
m+p-Xylenes		5.04	mg/kg-dry	0.052	98	70	130	5.9	20	
o-Xylene		2.51	mg/kg-dry	0.052	98	70	130	5.6	20	
Naphthalene		2.59	mg/kg-dry	0.10	100	70	130	4.9	20	
Total Purgeable Hydrocarbons		54.6	mg/kg-dry	2.1	30	70	130	21	20	SR
Surr: VPH Aromatics Surrogate				0.10	104	70	130			
Surr: VPH Aliphatics Surrogate				0.10	107	70	130			

Method: MA-VPH										Analytical Run: R446271
Lab ID: CCV_0721PE144r-S	15	Continuing Calibration Verification Standard				07/22/25 11:35				
1,2,4-Trimethylbenzene		2.50	mg/kg	0.10	100	75	125			
2,2,4-Trimethylpentane		2.63	mg/kg	0.10	105	75	125			
2-Methylpentane		2.60	mg/kg	0.10	104	75	125			
n-Butylcyclohexane		2.49	mg/kg	0.10	100	75	125			
n-Decane		2.41	mg/kg	0.10	96	75	125			
n-Pentane		2.74	mg/kg	0.10	110	75	125			
Methyl tert-butyl ether (MTBE)		2.38	mg/kg	0.10	95	75	125			
Benzene		2.56	mg/kg	0.050	102	75	125			
Toluene		2.48	mg/kg	0.050	99	75	125			
Ethylbenzene		2.47	mg/kg	0.050	99	75	125			
m+p-Xylenes		5.09	mg/kg	0.050	102	75	125			
o-Xylene		2.50	mg/kg	0.050	100	75	125			
Naphthalene		2.56	mg/kg	0.10	102	75	125			
Surr: VPH Aromatics Surrogate				0.10	99	75	125			
Surr: VPH Aliphatics Surrogate				0.10	99	75	125			

Qualifiers:

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071531

Report Date: 07/25/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8015M										Batch: 201675
Lab ID: MB-201675	2	Method Blank					Run: GCFID-HP5-B_250724A			07/24/25 12:34
Total Extractable Hydrocarbons		ND	mg/kg	10						
Surr: o-Terphenyl				0.067	103	40	140			
Lab ID: LCS-201675	2	Laboratory Control Sample					Run: GCFID-HP5-B_250724A			07/24/25 13:17
Total Extractable Hydrocarbons		211	mg/kg	10	99	60	140			
Surr: o-Terphenyl				0.067	98	40	140			
Lab ID: LCSD-201675	2	Laboratory Control Sample Duplicate					Run: GCFID-HP5-B_250724A			07/24/25 14:01
Total Extractable Hydrocarbons		218	mg/kg	10	102	60	140	3.0	20	
Surr: o-Terphenyl				0.067	101	40	140			
Lab ID: B25071548-001AMS	2	Sample Matrix Spike					Run: GCFID-HP5-B_250724A			07/24/25 15:28
Total Extractable Hydrocarbons		218	mg/kg-dry	10	98	60	140			
Surr: o-Terphenyl				0.069	96	40	140			
Lab ID: B25071548-001AMSD	2	Sample Matrix Spike Duplicate					Run: GCFID-HP5-B_250724A			07/24/25 16:11
Total Extractable Hydrocarbons		216	mg/kg-dry	10	98	60	140	0.9	20	
Surr: o-Terphenyl				0.069	97	40	140			
Method: SW8015M										Analytical Run: R446445
Lab ID: CCV_0724HP529r-S	15	Continuing Calibration Verification Standard								07/25/25 06:31
n-Nonane		7.23	mg/kg		109	75	125			
n-Decane		7.35	mg/kg		110	75	125			
n-Dodecane		7.11	mg/kg		107	75	125			
n-Tetradecane		7.12	mg/kg		107	75	125			
n-Hexadecane		7.16	mg/kg		107	75	125			
n-Octadecane		7.16	mg/kg		107	75	125			
n-Nonadecane		7.16	mg/kg		107	75	125			
n-Eicosane		7.17	mg/kg		108	75	125			
n-Docosane		7.17	mg/kg		108	75	125			
n-Tetracosane		7.20	mg/kg		108	75	125			
n-Hexacosane		7.22	mg/kg		108	75	125			
n-Octacosane		7.23	mg/kg		108	75	125			
n-Triacontane		7.27	mg/kg		109	75	125			
n-Hexatriacontane		7.29	mg/kg		109	75	125			
Surr: o-Terphenyl				0.067	112	75	125			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Revised Date: 08/01/25

Work Order: B25071531

Report Date: 07/25/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-EPH										Batch: 201909
Lab ID: MB-201909-201675	3	Method Blank				Run: GCFID-HP2-B_250728B				07/29/25 00:04
C9 to C18 Aliphatics		ND	mg/kg	10						
C19 to C36 Aliphatics		ND	mg/kg	10						
Surr: 1-Chloro-octadecane				0.067	92	40	140			
Lab ID: LCS-201909-201675	17	Laboratory Control Sample				Run: GCFID-HP2-B_250728B				07/29/25 01:33
C9 to C18 Aliphatics		26.1	mg/kg	10	65	40	140			
C19 to C36 Aliphatics		51.2	mg/kg	10	96	40	140			
n-Nonane		2.40	mg/kg	0.17	36	30	140			
n-Decane		3.26	mg/kg	0.17	49	40	140			
n-Dodecane		3.93	mg/kg	0.17	59	40	140			
n-Tetradecane		4.65	mg/kg	0.17	70	40	140			
n-Hexadecane		5.36	mg/kg	0.17	80	40	140			
n-Octadecane		5.78	mg/kg	0.17	87	40	140			
n-Nonadecane		6.19	mg/kg	0.17	93	40	140			
n-Eicosane		6.28	mg/kg	0.17	94	40	140			
n-Docosane		6.37	mg/kg	0.17	96	40	140			
n-Tetracosane		6.50	mg/kg	0.17	98	40	140			
n-Hexacosane		6.39	mg/kg	0.17	96	40	140			
n-Octacosane		6.41	mg/kg	0.17	96	40	140			
n-Triacontane		6.46	mg/kg	0.17	97	40	140			
n-Hexatriacontane		6.38	mg/kg	0.17	96	40	140			
Surr: 1-Chloro-octadecane				0.067	87	40	140			
Lab ID: LCSD-201909-201675	17	Laboratory Control Sample Duplicate				Run: GCFID-HP2-B_250728B				07/29/25 03:02
C9 to C18 Aliphatics		29.5	mg/kg	10	74	40	140	12	20	
C19 to C36 Aliphatics		56.9	mg/kg	10	107	40	140	10	20	
n-Nonane		2.84	mg/kg	0.17	43	30	140	17	30	
n-Decane		3.81	mg/kg	0.17	57	40	140	16	20	
n-Dodecane		4.52	mg/kg	0.17	68	40	140	14	20	
n-Tetradecane		5.19	mg/kg	0.17	78	40	140	11	20	
n-Hexadecane		5.86	mg/kg	0.17	88	40	140	9.0	20	
n-Octadecane		6.42	mg/kg	0.17	96	40	140	10	20	
n-Nonadecane		6.89	mg/kg	0.17	103	40	140	11	20	
n-Eicosane		7.00	mg/kg	0.17	105	40	140	11	20	
n-Docosane		7.07	mg/kg	0.17	106	40	140	10	20	
n-Tetracosane		7.22	mg/kg	0.17	108	40	140	10	20	
n-Hexacosane		7.09	mg/kg	0.17	106	40	140	10	20	
n-Octacosane		7.11	mg/kg	0.17	107	40	140	10	20	
n-Triacontane		7.17	mg/kg	0.17	108	40	140	10	20	
n-Hexatriacontane		7.05	mg/kg	0.17	106	40	140	9.9	20	
Surr: 1-Chloro-octadecane				0.067	97	40	140			
Lab ID: B25071548-001AMS	17	Sample Matrix Spike				Run: GCFID-HP2-B_250728B				07/29/25 06:45
C9 to C18 Aliphatics		30.8	mg/kg-dry	10	74	40	140			
C19 to C36 Aliphatics		60.0	mg/kg-dry	10	108	40	140			
n-Nonane		2.80	mg/kg-dry	0.17	40	30	140			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Revised Date: 08/01/25

Work Order: B25071531

Report Date: 07/25/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-EPH										Batch: 201909
Lab ID: B25071548-001AMS	17	Sample Matrix Spike		Run: GCFID-HP2-B_250728B				07/29/25 06:45		
n-Decane		3.81	mg/kg-dry	0.17	55	40	140			
n-Dodecane		4.53	mg/kg-dry	0.17	65	40	140			
n-Tetradecane		5.31	mg/kg-dry	0.17	76	40	140			
n-Hexadecane		6.12	mg/kg-dry	0.17	88	40	140			
n-Octadecane		6.74	mg/kg-dry	0.17	97	40	140			
n-Nonadecane		7.20	mg/kg-dry	0.17	104	40	140			
n-Eicosane		7.36	mg/kg-dry	0.17	106	40	140			
n-Docosane		7.47	mg/kg-dry	0.17	108	40	140			
n-Tetracosane		7.63	mg/kg-dry	0.17	110	40	140			
n-Hexacosane		7.49	mg/kg-dry	0.17	108	40	140			
n-Octacosane		7.51	mg/kg-dry	0.17	108	40	140			
n-Triacontane		7.58	mg/kg-dry	0.17	109	40	140			
n-Hexatriacontane		7.47	mg/kg-dry	0.17	108	40	140			
Surr: 1-Chloro-octadecane				0.069	95	40	140			
Lab ID: B25071548-001AMSD	17	Sample Matrix Spike Duplicate		Run: GCFID-HP2-B_250728B				07/29/25 08:13		
C9 to C18 Aliphatics		30.2	mg/kg-dry	10	73	40	140	2.2	20	
C19 to C36 Aliphatics		57.5	mg/kg-dry	10	105	40	140	4.3	20	
n-Nonane		2.71	mg/kg-dry	0.17	39	30	140	3.3	30	
n-Decane		3.61	mg/kg-dry	0.17	53	40	140	5.5	20	
n-Dodecane		4.24	mg/kg-dry	0.17	62	40	140	6.7	20	
n-Tetradecane		5.02	mg/kg-dry	0.17	73	40	140	5.5	20	
n-Hexadecane		5.90	mg/kg-dry	0.17	86	40	140	3.8	20	
n-Octadecane		6.45	mg/kg-dry	0.17	94	40	140	4.4	20	
n-Nonadecane		6.91	mg/kg-dry	0.17	101	40	140	4.0	20	
n-Eicosane		7.02	mg/kg-dry	0.17	102	40	140	4.7	20	
n-Docosane		7.13	mg/kg-dry	0.17	104	40	140	4.8	20	
n-Tetracosane		7.29	mg/kg-dry	0.17	106	40	140	4.6	20	
n-Hexacosane		7.16	mg/kg-dry	0.17	104	40	140	4.5	20	
n-Octacosane		7.19	mg/kg-dry	0.17	105	40	140	4.4	20	
n-Triacontane		7.26	mg/kg-dry	0.17	106	40	140	4.4	20	
n-Hexatriacontane		7.19	mg/kg-dry	0.17	105	40	140	3.8	20	
Surr: 1-Chloro-octadecane				0.069	93	40	140			
Lab ID: MB-201909-201675	20	Method Blank		Run: GCFID-HP2-B_250728B				07/29/25 00:48		
C11 to C22 Aromatics		ND	mg/kg	10						
Total Extractable Hydrocarbons		ND	mg/kg	10						
Naphthalene		ND	mg/kg	0.17						
2-Methylnaphthalene		ND	mg/kg	0.17						
Acenaphthylene		ND	mg/kg	0.17						
Acenaphthene		ND	mg/kg	0.17						
Fluorene		ND	mg/kg	0.17						
Phenanthrene		ND	mg/kg	0.17						
Anthracene		ND	mg/kg	0.17						
Fluoranthene		ND	mg/kg	0.17						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Revised Date: 08/01/25

Work Order: B25071531

Report Date: 07/25/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-EPH										Batch: 201909
Lab ID: MB-201909-201675	20	Method Blank						Run: GCFID-HP2-B_250728B		07/29/25 00:48
Pyrene		ND	mg/kg	0.17						
Benzo(a)Anthracene		ND	mg/kg	0.17						
Benzo(a)Pyrene		ND	mg/kg	0.17						
Benzo(b)Fluoranthene/Benzo(k)Fluorant		ND	mg/kg	0.17						
Benzo(g,h,i)perylene		ND	mg/kg	0.17						
Chrysene		ND	mg/kg	0.17						
Dibenz(a,h)anthracene/Indeno(1,2,3-cd)		ND	mg/kg	0.17						
Surr: 2-Bromonaphthalene				0.067	114	40	140			
Surr: 2-Fluorobiphenyl				0.067	118	40	140			
Surr: o-Terphenyl				0.067	102	40	140			
Lab ID: LCS-201909-201675	20	Laboratory Control Sample						Run: GCFID-HP2-B_250728B		07/29/25 02:18
C11 to C22 Aromatics		109	mg/kg	10	91	40	140			
Total Extractable Hydrocarbons		187	mg/kg	10	88	40	140			
Naphthalene		3.65	mg/kg	0.17	55	40	140			
2-Methylnaphthalene		4.11	mg/kg	0.17	62	40	140			
Acenaphthylene		4.83	mg/kg	0.17	72	40	140			
Acenaphthene		4.78	mg/kg	0.17	72	40	140			
Fluorene		5.48	mg/kg	0.17	82	40	140			
Phenanthrene		6.18	mg/kg	0.17	93	40	140			
Anthracene		6.52	mg/kg	0.17	98	40	140			
Fluoranthene		6.69	mg/kg	0.17	100	40	140			
Pyrene		6.67	mg/kg	0.17	100	40	140			
Benzo(a)Anthracene		6.77	mg/kg	0.17	102	40	140			
Benzo(a)Pyrene		7.27	mg/kg	0.17	109	40	140			
Benzo(b)Fluoranthene/Benzo(k)Fluorant		13.4	mg/kg	0.17	100	40	140			
Benzo(g,h,i)perylene		6.58	mg/kg	0.17	99	40	140			
Chrysene		7.21	mg/kg	0.17	108	40	140			
Dibenz(a,h)anthracene/Indeno(1,2,3-cd)		13.4	mg/kg	0.17	101	40	140			
Surr: 2-Bromonaphthalene				0.067	108	40	140			
Surr: 2-Fluorobiphenyl				0.067	106	40	140			
Surr: o-Terphenyl				0.067	95	40	140			
Lab ID: LCSD-201909-201675	20	Laboratory Control Sample Duplicate						Run: GCFID-HP2-B_250728B		07/29/25 03:47
C11 to C22 Aromatics		115	mg/kg	10	96	40	140	5.3	20	
Total Extractable Hydrocarbons		202	mg/kg	10	95	40	140	7.7	20	
Naphthalene		4.20	mg/kg	0.17	63	40	140	14	20	
2-Methylnaphthalene		4.66	mg/kg	0.17	70	40	140	13	20	
Acenaphthylene		5.36	mg/kg	0.17	80	40	140	10	20	
Acenaphthene		5.30	mg/kg	0.17	79	40	140	10	20	
Fluorene		5.94	mg/kg	0.17	89	40	140	8.0	20	
Phenanthrene		6.53	mg/kg	0.17	98	40	140	5.5	20	
Anthracene		6.80	mg/kg	0.17	102	40	140	4.1	20	
Fluoranthene		6.94	mg/kg	0.17	104	40	140	3.7	20	
Pyrene		6.91	mg/kg	0.17	104	40	140	3.5	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Revised Date: 08/01/25

Work Order: B25071531

Report Date: 07/25/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-EPH										Batch: 201909
Lab ID: LCSD-201909-201675	20	Laboratory Control Sample Duplicate				Run: GCFID-HP2-B_250728B			07/29/25 03:47	
Benzo(a)Anthracene		6.98	mg/kg	0.17	105	40	140	3.1	20	
Benzo(a)Pyrene		7.50	mg/kg	0.17	112	40	140	3.1	20	
Benzo(b)Fluoranthene/Benzo(k)Fluorant		13.8	mg/kg	0.17	103	40	140	2.9	20	
Benzo(g,h,i)perylene		6.77	mg/kg	0.17	102	40	140	2.8	20	
Chrysene		7.40	mg/kg	0.17	111	40	140	2.7	20	
Dibenz(a,h)anthracene/Indeno(1,2,3-cd)		13.9	mg/kg	0.17	104	40	140	3.2	20	
Surr: 2-Bromonaphthalene				0.067	110	40	140			
Surr: 2-Fluorobiphenyl				0.067	111	40	140			
Surr: o-Terphenyl				0.067	100	40	140			
Lab ID: B25071548-001AMS	20	Sample Matrix Spike				Run: GCFID-HP2-B_250728B			07/29/25 07:29	
C11 to C22 Aromatics		119	mg/kg-dry	10	95	40	140			
Total Extractable Hydrocarbons		211	mg/kg-dry	10	95	40	140			
Naphthalene		4.20	mg/kg-dry	0.17	60	40	140			
2-Methylnaphthalene		4.67	mg/kg-dry	0.17	67	40	140			
Acenaphthylene		5.38	mg/kg-dry	0.17	78	40	140			
Acenaphthene		5.33	mg/kg-dry	0.17	77	40	140			
Fluorene		6.01	mg/kg-dry	0.17	87	40	140			
Phenanthrene		6.68	mg/kg-dry	0.17	96	40	140			
Anthracene		7.01	mg/kg-dry	0.17	101	40	140			
Fluoranthene		7.18	mg/kg-dry	0.17	103	40	140			
Pyrene		7.18	mg/kg-dry	0.17	103	40	140			
Benzo(a)Anthracene		7.36	mg/kg-dry	0.17	106	40	140			
Benzo(a)Pyrene		8.00	mg/kg-dry	0.17	115	40	140			
Benzo(b)Fluoranthene/Benzo(k)Fluorant		14.5	mg/kg-dry	0.17	104	40	140			
Benzo(g,h,i)perylene		7.14	mg/kg-dry	0.17	103	40	140			
Chrysene		7.76	mg/kg-dry	0.17	112	40	140			
Dibenz(a,h)anthracene/Indeno(1,2,3-cd)		14.6	mg/kg-dry	0.17	105	40	140			
Surr: 2-Bromonaphthalene				0.069	90	40	140			
Surr: 2-Fluorobiphenyl				0.069	100	40	140			
Surr: o-Terphenyl				0.069	98	40	140			
Lab ID: B25071548-001AMSD	20	Sample Matrix Spike Duplicate				Run: GCFID-HP2-B_250728B			07/29/25 08:58	
C11 to C22 Aromatics		114	mg/kg-dry	10	93	40	140	4.1	20	
Total Extractable Hydrocarbons		203	mg/kg-dry	10	92	40	140	4.1	20	
Naphthalene		3.74	mg/kg-dry	0.17	54	40	140	12	20	
2-Methylnaphthalene		4.23	mg/kg-dry	0.17	62	40	140	9.9	20	
Acenaphthylene		5.05	mg/kg-dry	0.17	74	40	140	6.4	20	
Acenaphthene		5.00	mg/kg-dry	0.17	73	40	140	6.3	20	
Fluorene		5.81	mg/kg-dry	0.17	85	40	140	3.5	20	
Phenanthrene		6.48	mg/kg-dry	0.17	94	40	140	3.0	20	
Anthracene		6.87	mg/kg-dry	0.17	100	40	140	1.9	20	
Fluoranthene		7.00	mg/kg-dry	0.17	102	40	140	2.5	20	
Pyrene		6.97	mg/kg-dry	0.17	101	40	140	3.0	20	
Benzo(a)Anthracene		7.12	mg/kg-dry	0.17	104	40	140	3.3	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Revised Date: 08/01/25

Work Order: B25071531

Report Date: 07/25/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-EPH										Batch: 201909
Lab ID: B25071548-001AMSD 20 Sample Matrix Spike Duplicate										Run: GCFID-HP2-B_250728B 07/29/25 08:58
Benzo(a)Pyrene		7.76	mg/kg-dry	0.17	113	40	140	3.0	20	
Benzo(b)Fluoranthene/Benzo(k)Fluorant		14.0	mg/kg-dry	0.17	102	40	140	3.3	20	
Benzo(g,h,i)perylene		6.93	mg/kg-dry	0.17	101	40	140	3.0	20	
Chrysene		7.54	mg/kg-dry	0.17	110	40	140	2.9	20	
Dibenz(a,h)anthracene/Indeno(1,2,3-cd)		14.1	mg/kg-dry	0.17	103	40	140	3.1	20	
Surr: 2-Bromonaphthalene				0.069	86	40	140			
Surr: 2-Fluorobiphenyl				0.069	99	40	140			
Surr: o-Terphenyl				0.069	96	40	140			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Revised Date: 08/01/25

Work Order: B25071531

Report Date: 07/25/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-EPH										Analytical Run: R446575
Lab ID: CCV_0728HP225r-S	15 Continuing Calibration Verification Standard									07/29/25 09:42
n-Nonane		7.12	mg/kg	0.17	107	75	125			
n-Decane		7.22	mg/kg	0.17	108	75	125			
n-Dodecane		7.12	mg/kg	0.17	107	75	125			
n-Tetradecane		7.06	mg/kg	0.17	106	75	125			
n-Hexadecane		7.09	mg/kg	0.17	106	75	125			
n-Octadecane		7.11	mg/kg	0.17	107	75	125			
n-Nonadecane		7.09	mg/kg	0.17	106	75	125			
n-Eicosane		7.11	mg/kg	0.17	107	75	125			
n-Docosane		7.09	mg/kg	0.17	106	75	125			
n-Tetracosane		7.12	mg/kg	0.17	107	75	125			
n-Hexacosane		7.11	mg/kg	0.17	107	75	125			
n-Octacosane		7.13	mg/kg	0.17	107	75	125			
n-Triacontane		7.16	mg/kg	0.17	107	75	125			
n-Hexatriacontane		7.23	mg/kg	0.17	108	75	125			
Surr: 1-Chloro-octadecane				0.067	106	75	125			
Lab ID: CCV_0728HP226r-S	18 Continuing Calibration Verification Standard									07/29/25 10:26
Naphthalene		7.33	mg/kg	0.17	110	75	125			
2-Methylnaphthalene		7.46	mg/kg	0.17	112	75	125			
Acenaphthylene		7.30	mg/kg	0.17	110	75	125			
Acenaphthene		7.17	mg/kg	0.17	108	75	125			
Fluorene		7.21	mg/kg	0.17	108	75	125			
Phenanthrene		7.27	mg/kg	0.17	109	75	125			
Anthracene		7.12	mg/kg	0.17	107	75	125			
Fluoranthene		7.24	mg/kg	0.17	109	75	125			
Pyrene		7.22	mg/kg	0.17	108	75	125			
Benzo(a)Anthracene		7.08	mg/kg	0.17	106	75	125			
Benzo(a)Pyrene		6.99	mg/kg	0.17	105	75	125			
Benzo(b)Fluoranthene/Benzo(k)Fluorant		14.0	mg/kg	0.17	105	75	125			
Benzo(g,h,i)perylene		7.17	mg/kg	0.17	107	75	125			
Chrysene		7.13	mg/kg	0.17	107	75	125			
Dibenz(a,h)anthracene/Indeno(1,2,3-cd)		11.5	mg/kg	0.17	87	75	125			
Surr: 2-Bromonaphthalene				0.067	104	75	125			
Surr: 2-Fluorobiphenyl				0.067	105	75	125			
Surr: o-Terphenyl				0.067	104	75	125			

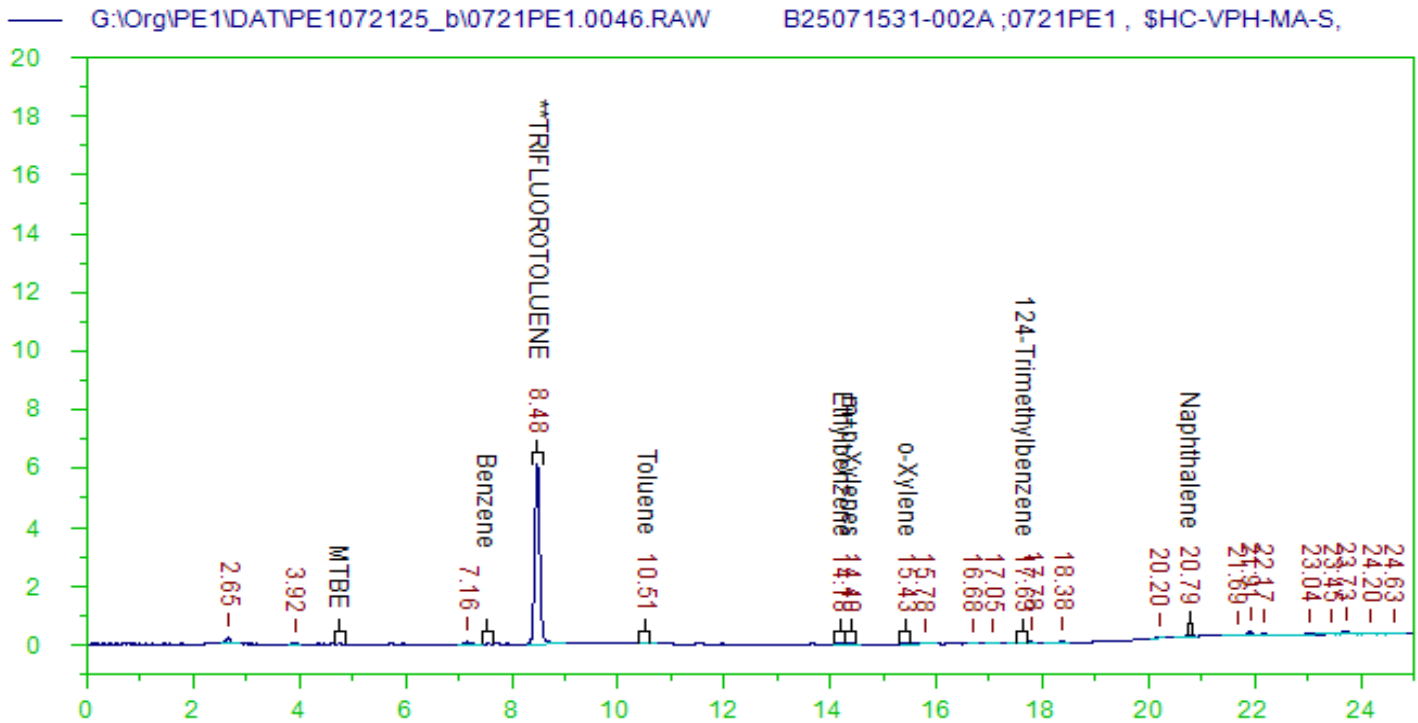
Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

B25071531 - B25071531-002A

Batch ID: 201623



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

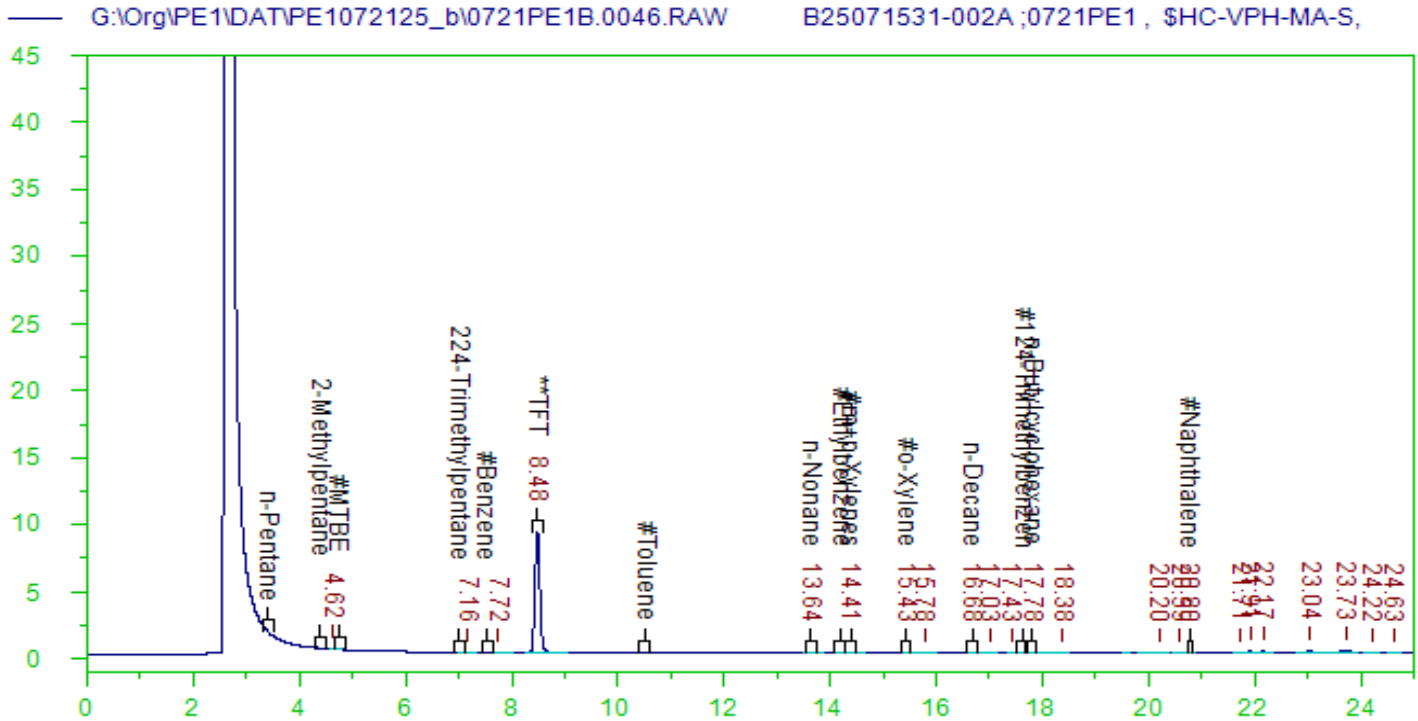
Sample Name: B25071531-002A ;0721PE1 , \$HC-VPH-MA-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072125_B\0721PE1.0046.RAW
Date & Time Acquired: 7/22/2025 12:44:54 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716VPH%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPH.CAL
Sample Weight: 50 Dilution: 1 S.A.: 1

Mean RF for C9 to C10 Aromatic Hydrocarbons: 759.87964
Rt range for C9 to C10 Aromatics: 15.520881 to 20.753365
Aromatic Hydrocarbon Range Area and Quantitation:
C9-C10 Aromatics Area: 1267.8484 C9-C10 Aromatics Amount: 0.033369716

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	0.000	0.000	0.000	0	0.100	U
Benzene	0.000	0.000	0.000	0	0.050	U
Toluene	10.512	10.512	10.512	153	0.050	U
Ethylbenzene	14.178	14.178	14.178	103	0.050	U
m+p-Xylenes	14.404	14.404	14.404	298	0.100	U
o-Xylene	15.433	15.433	15.433	140	0.050	U
124-Trimethylbenzene	17.635	17.635	17.635	159	0.050	U
Naphthalene	20.792	20.792	20.792	452	0.100	U
SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.481	2.500	40880	2.314	92.56	70-130

B25071531 - B25071531-002A

Batch ID: 201623



VPH ALIPHATICS FLAME IONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071531-002A ;0721PE1 , \$HC-VPH-MA-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072125_B\0721PE1B.0046.RAW
Date & Time Acquired: 7/22/2025 12:44:54 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716VPHB%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPHB.CAL
Sample Weight: 50 Dilution: 1 S.A.: 1

Mean RF for C5 to C8 Aliphatic Hydrocarbons: 439.11835
Mean RF for C9 to C12 Aliphatic Hydrocarbons: 353.54797
Mean RF for all calibrated compounds: 543.5327
Rt range for Gasoline Range Organics: 4.2916737 to 16.777027
Rt range for C5 to C8 Aliphatic Hydrocarbons: 3.301616 to 13.532562
Rt range for C9 to C12 Aliphatic Hydrocarbons: 13.582562 to 20.757952

SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC
**TFT	8.483	2.500	59575	2.408	96.32

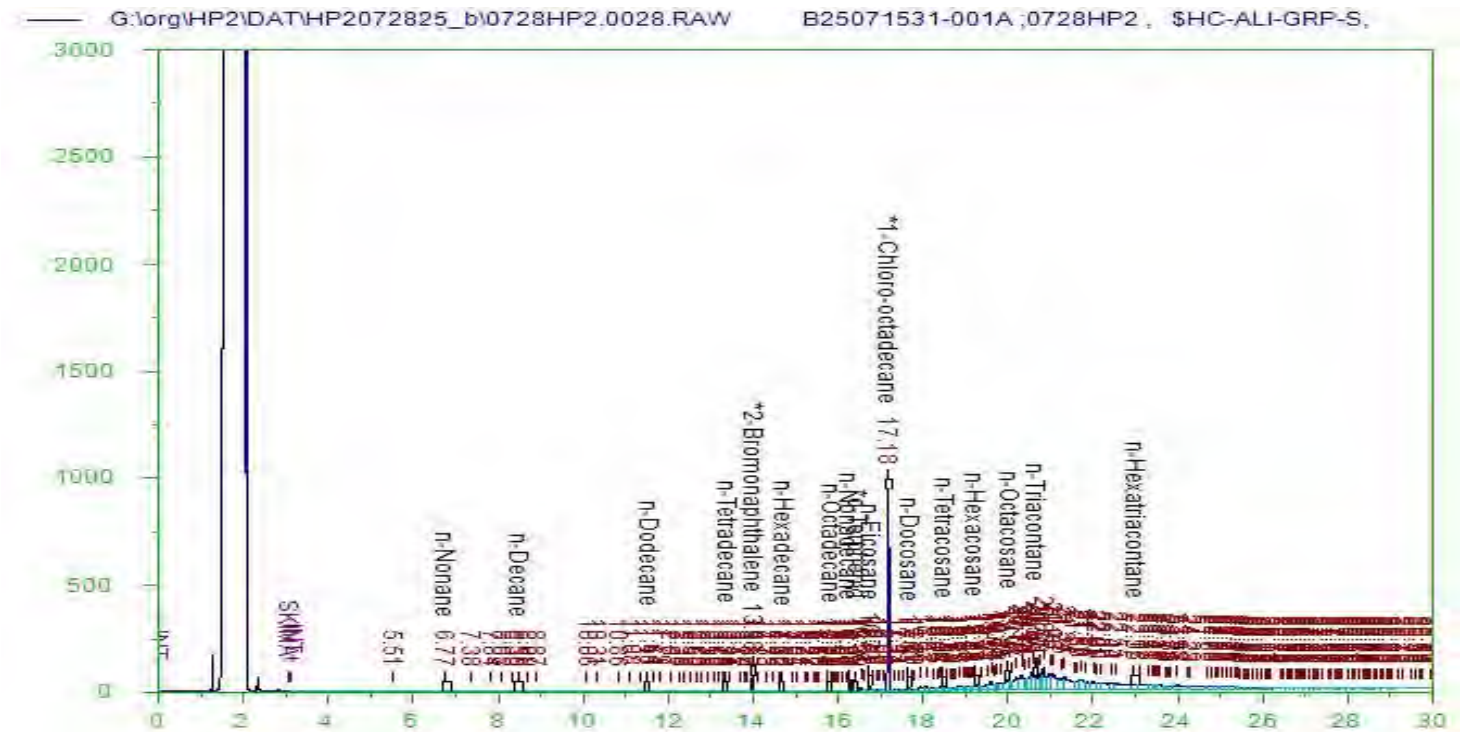
GRO Area: 2172.5352 GRO Amount: 0.07994128
TPH Area: 6746.992 TPH Amount: 0.24826445

Aliphatic Hydrocarbon Areas and Quantitations uncorrected for Aromatics:
C5-C8 Area: 778.71484 C5-C8 Amount: 0.035467196
C9-C12 Area: 2813.3118 C9-C12 Amount: 0.15914738

Batch ID: 201675

B25071531 - B25071531-001A

Batch ID: 201909



EPH ALIPHATICS (FID) ANALYSIS REPORT

Sample Name: B25071531-001A ;0728HP2 , \$HC-ALI-GRP-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2072825_B\0728HP2.0028.RAW
Date & Time Acquired: 7/29/2025 11:55:50 AM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\L3_EPH-UL-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AL250414UL.CAL
Sample Weight: 30.21 Dilution: 2 S.A.: 1

Mean RF for C9 to C18 Aliphatic Hydrocarbons: 26229.834
Mean RF for C19 to C36 Aliphatic Hydrocarbons: 27027.953
Mean RF for Total Extractable Hydrocarbons: 26685.904
Rt range for Diesel Range Organics: 8.405999 to 20.022999
Rt range for C9 to C18 Aliphatic Hydrocarbons: 6.675 to 16.241001
Rt range for C19 to C36 Aliphatic Hydrocarbons: 16.266 to 23.098

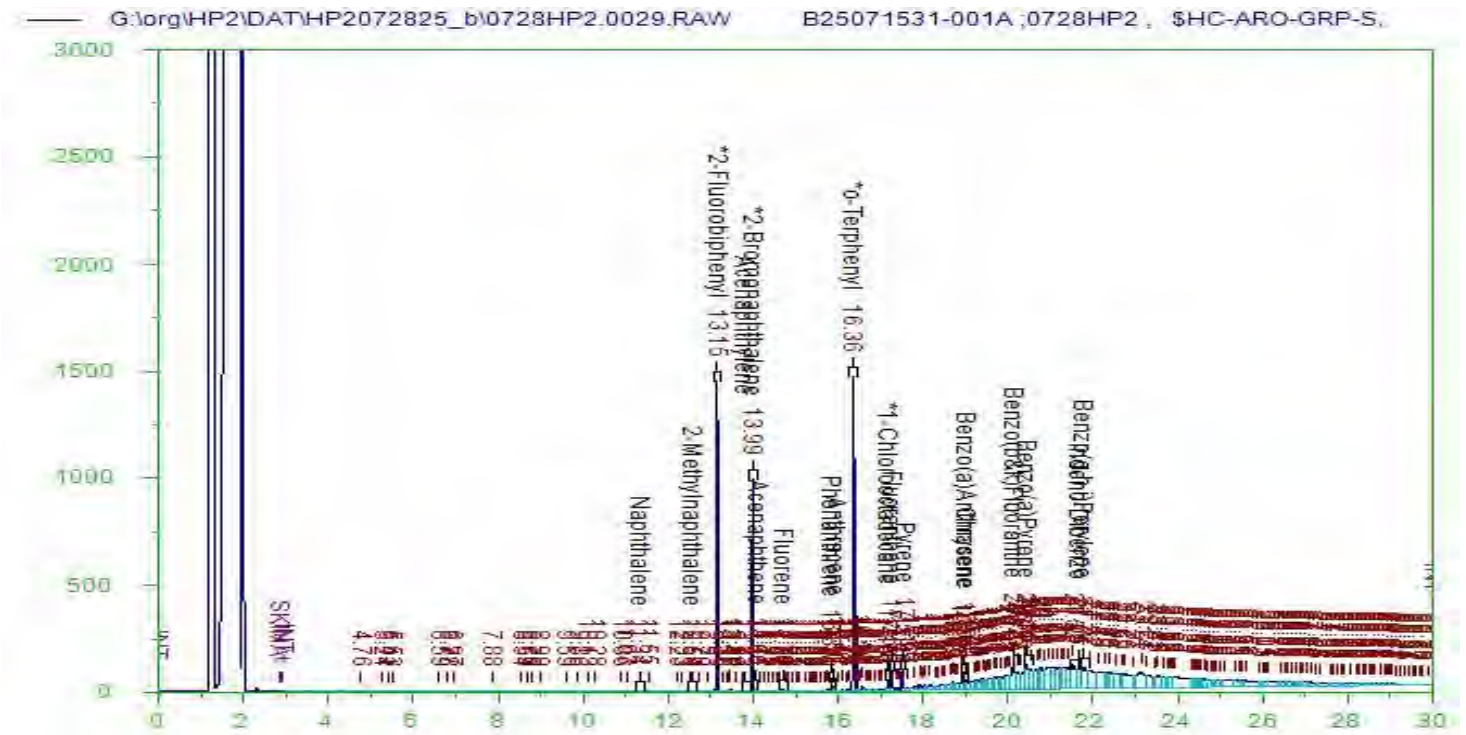
SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*1-Chloro-octadecane	17.176	2084323	6.620	5.590	84.44	-

DRO Area: 3188001 DRO Amount: 7.9088945
TEH Area: 14728963 TEH Amount: 36.54008

Aliphatic Hydrocarbon Areas and Amounts:
C9-C18 Area: 284600.53 C9-C18 Amount: 0.71832246
C19-C36 Area: 10967979 C19-C36 Amount: 26.865366

B25071531 - B25071531-001A

Batch ID: 201909



EPH AROMATICS RANGE VALUES (FID) ANALYSIS REPORT

Sample Name: B25071531-001A ;0728HP2 , \$HC-ARO-GRP-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2072825_B\0728HP2.0029.RAW
Date & Time Acquired: 7/29/2025 12:40:26 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\R3_EPH-UL-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AR250421UL.CAL
Sample Weight: 30.21 Dilution: 2 S.A.: 1

Mean RF EPH Aromatics: 29832.363

Rt range for EPH C11 to C22 Aromatics: 11.247999 to 21.938

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*2-Fluorobiphenyl	13.149	2723612	6.620	6.897	104.17	-
*2-Bromonaphthalene	13.986	1838018	6.620	6.596	99.63	-
*o-Terphenyl	16.362	2897548	6.620	6.160	93.05	-
*1-Chlorooctadecane	17.176	128445	6.620	0.343	5.17	-

C11-C22 Aromatics Area: 16242468

C11-C22 Aromatics Amount: 36.044884

EPH Aromatics total Area: 29443286

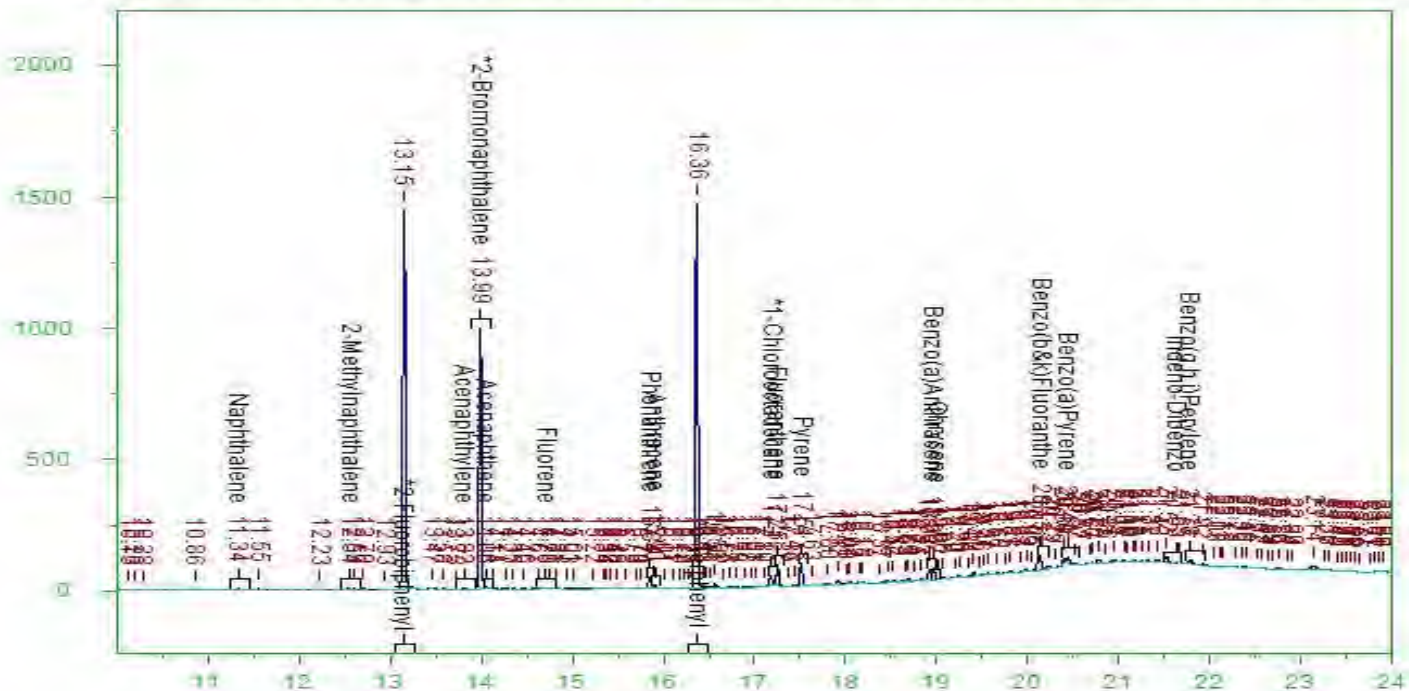
EPH Aromatics Total Amount: 65.33981

B25071531 - B25071531-001A

Batch ID: 201909

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B25071531-001A_0728HP2_\$.HC-ARO-GRP-S.



EPH AROMATICS TARGET VALUES (FID) ANALYSIS REPORT

Sample Name: B25071531-001A ;0728HP2 , \$.HC-ARO-GRP-S,

Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2072825_B\0728HP2.0029.RAW

Date & Time Acquired: 7/29/2025 12:40:26 PM

Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\RT_EPH-UL-L%.MET

Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AR250421UL.CAL

Sample Weight: 30.21

Dilution: 2

S.A.: 1

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
Naphthalene	11.335	11.335	11.335	4396	0.066	U
2-Methylnaphthalene	12.545	12.545	12.545	1854	0.066	U
Acenaphthylene	13.815	13.815	13.815	3551	0.066	U
Acenaphthene	14.059	14.059	14.059	5281	0.066	U
Fluorene	14.699	14.699	14.699	7885	0.066	U
Phenanthrene	15.844	-1.863	-1.859	83577	0.188	
Anthracene	15.898	-1.919	-1.912	25481	0.057	J
Fluoranthene	17.251	-3.274	-3.265	150809	0.331	
Pyrene	17.508	-3.532	-3.522	179163	0.389	
Benzo(a)Anthracene	18.964	-4.948	-4.979	95086	0.205	
Chrysene	19.022	19.022	19.022	4006	0.066	U
Benzo(b&k)Fluoranthene	20.125	-6.175	-6.140	150974	0.320	
Benzo(a)Pyrene	20.440	-6.473	-6.455	44701	0.107	
Indeno-Dibenzo	21.634	21.634	21.634	1245	0.132	U
Benzo(g,h,i)Perylene	21.785	-7.839	-7.799	44861	0.097	
SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	QC LIMITS
*2-Fluorobiphenyl	13.149	2711924	6.620	6.867	103.73	40-140
*2-Bromonaphthalene	13.986	1825265	6.620	6.550	98.94	40-140
*o-Terphenyl	16.362	2893005	6.620	6.150	92.90	40-140
*1-Chlorooctadecane	17.176	80756	6.620	0.215	3.25	40-140

G:\org\HP2\dat\HP2072825_B\Review\029_B25071531-001A_RT_EPH-UL-L%.xls



Work Order Receipt Checklist

Resource Technologies Inc

B25071531

Login completed by: Crystal M. Jones

Date Received: 7/17/2025

Reviewed by: gmccartney

Received by: CMJ

Reviewed Date: 7/18/2025

Carrier name: Hand Deliver

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☒	Not Applicable ☐
Container/Temp Blank temperature:	4.1°C On Ice - From Field		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☒

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT  	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY 	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090



Page _____ of _____

Report Information *(if different than Account Information)*

Company/Name _____

Contact _____

Phone _____

Mailing Address _____

City, State, Zip _____

Email _____

Receive Report ☐ Hard Copy ☐ Email

Special Report/Formats:

☐ LEVEL IV ☐ NELAC ☐ EDD/EDT (contact laboratory) ☐ Other _____

Analysis Requested

Matrix Codes

A - Air
W - Water
S - Soils/ Solids
V - Vegetation
B - Bioassay
O - Other
DW - Drinking Water

See Attached

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.



ANALYTICAL SUMMARY REPORT

August 20, 2025

Marketing Specialties

420 N 16th St

Billings, MT 59101-1547

Work Order: B25071795

Project Name: MT Air Controls

Energy Laboratories Inc Billings MT received the following 7 samples for Marketing Specialties on 7/21/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25071795-001	T1W	07/21/25 10:10	07/21/25	Soil	EPH-Ultrasonic Extraction SW3550C Methanol Extraction for Volatiles SW5035 EPH Fractionation Hydrocarbons, Aliphatic Extractable Petroleum Hydrocarbons, Aromatic Extractable Petroleum Hydrocarbons, Extractable Petroleum-Scrn Volatile Petroleum Hydrocarbons Percent Moisture
B25071795-002	T1E	07/21/25 10:15	07/21/25	Soil	EPH-Ultrasonic Extraction SW3550C Methanol Extraction for Volatiles SW5035 Hydrocarbons, Extractable Petroleum-Scrn Volatile Petroleum Hydrocarbons Percent Moisture
B25071795-003	T2S	07/21/25 9:50	07/21/25	Soil	EPH-Ultrasonic Extraction SW3550C Methanol Extraction for Volatiles SW5035 EPH Fractionation Hydrocarbons, Aliphatic Extractable Petroleum Hydrocarbons, Aromatic Extractable Petroleum Hydrocarbons, Extractable Petroleum-Scrn Volatile Petroleum Hydrocarbons Percent Moisture
B25071795-004	T2N	07/21/25 9:45	07/21/25	Soil	Same As Above
B25071795-005	T3S	07/21/25 10:05	07/21/25	Soil	Same As Above
B25071795-006	T3N	07/21/25 10:05	07/21/25	Soil	Same As Above
B25071795-007	Trip Blank	07/21/25 9:45	07/21/25	Soil	Methanol Extraction for Volatiles SW5035 Volatile Petroleum Hydrocarbons

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.



ANALYTICAL SUMMARY REPORT

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.



CLIENT: Marketing Specialties
Project: MT Air Controls
Work Order: B25071795

Report Date: 08/20/25

CASE NARRATIVE

Fractionation without PAHs was added to the following sample(s) per client's request on 08/01/2025:

B25071795-001 T1W
B25071795-003 TS2
B25071795-004 T2N
B25071795-005 T3S
B25071795-006 T3N



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Marketing Specialties
Project: MT Air Controls
Lab ID: B25071795-001
Client Sample ID: T1W

Report Date: 08/20/25
Collection Date: 07/21/25 10:10
Date Received: 07/21/25
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
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PHYSICAL CHARACTERISTICS

Moisture	19.0	wt%		0.2		D2974	07/22/25 09:11 / rlk
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PETROLEUM HYDROCARBONS-VOLATILE (VPH)

Methyl tert-butyl ether (MTBE)	ND	mg/kg-dry	D	2.4	0.078	MA-VPH	07/30/25 12:11 / jp
Benzene	ND	mg/kg-dry	D	1.2	0.07	MA-VPH	07/30/25 12:11 / jp
Toluene	ND	mg/kg-dry	D	1.2	21	MA-VPH	07/30/25 12:11 / jp
Ethylbenzene	21	mg/kg-dry	*	1.2	6.4	MA-VPH	07/30/25 12:11 / jp
m+p-Xylenes	5.1	mg/kg-dry		1.2		MA-VPH	07/30/25 12:11 / jp
o-Xylene	ND	mg/kg-dry	D	1.2		MA-VPH	07/30/25 12:11 / jp
Xylenes, Total	6.0	mg/kg-dry		1.2	72	MA-VPH	07/30/25 12:11 / jp
Naphthalene	ND	mg/kg-dry	D	2.4	2.2	MA-VPH	07/30/25 12:11 / jp
C9 to C10 Aromatics	481	mg/kg-dry	*	48	130	MA-VPH	07/30/25 12:11 / jp
C5 to C8 Aliphatics	355	mg/kg-dry	*	48	52	MA-VPH	07/30/25 12:11 / jp
C9 to C12 Aliphatics	728	mg/kg-dry	*	48	77	MA-VPH	07/30/25 12:11 / jp
Total Purgeable Hydrocarbons	1180	mg/kg-dry		48		MA-VPH	07/30/25 12:11 / jp
Surr: VPH Aromatics Surrogate	0.00	%REC	1	70-130		MA-VPH	07/30/25 12:11 / jp
Surr: VPH Aliphatics Surrogate	0.00	%REC	1	70-130		MA-VPH	07/30/25 12:11 / jp

- Note 1: The C5 to C8 Aliphatics value is corrected for aromatic constituents Benzene and Toluene.

- Note 2: The C9 to C12 Aliphatics value is corrected for aromatic constituents Ethylbenzene, m+p-Xylenes, o-Xylene and C9 to C10 Aromatics.

- * = The reported value exceeds the Maximum Contaminant Limit (MCL). The MCLs listed for target analyte and hydrocarbon range values are the most conservative Montana DEQ RBSLs. These limits may not apply to your samples.

- 1 = The surrogate was not resolved from a closely eluting peak. Surrogate recovery could not be calculated.

EXTRACTABLE PETROLEUM HYDROCARBONS-SCREEN

Total Extractable Hydrocarbons	267	mg/kg-dry	*	12	200	SW8015M	07/30/25 23:36 / amn
Surr: o-Terphenyl	87.0	%REC		40-140		SW8015M	07/30/25 23:36 / amn

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

EXTRACTABLE PETROLEUM HYDROCARBONS - ALIPHATICS

C9 to C18 Aliphatics	74	mg/kg-dry		12	110	MA-EPH	08/09/25 02:59 / jph
C19 to C36 Aliphatics	9.8	mg/kg-dry	J	12	24000	MA-EPH	08/09/25 02:59 / jph
Surr: 1-Chloro-octadecane	83.0	%REC		40-140		MA-EPH	08/09/25 02:59 / jph

EXTRACTABLE PETROLEUM HYDROCARBONS - AROMATICS

C11 to C22 Aromatics	70	mg/kg-dry		12	370	MA-EPH	08/09/25 03:44 / jph
Total Extractable Hydrocarbons	226	mg/kg-dry		12		MA-EPH	08/09/25 03:44 / jph
Surr: 2-Bromonaphthalene	98.0	%REC		40-140		MA-EPH	08/09/25 03:44 / jph
Surr: 2-Fluorobiphenyl	96.0	%REC		40-140		MA-EPH	08/09/25 03:44 / jph
Surr: o-Terphenyl	87.0	%REC		40-140		MA-EPH	08/09/25 03:44 / jph

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
* - The result exceeds the Maximum Contaminant Level (MCL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
D - Reporting Limit (RL) increased due to sample matrix



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Marketing Specialties
Project: MT Air Controls
Lab ID: B25071795-002
Client Sample ID: T1E

Report Date: 08/20/25
Collection Date: 07/21/25 10:15
Date Received: 07/21/25
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture	19.9	wt%		0.2		D2974	07/22/25 09:11 / rlk
PETROLEUM HYDROCARBONS-VOLATILE (VPH)							
Methyl tert-butyl ether (MTBE)	ND	mg/kg-dry	D	0.58	0.078	MA-VPH	07/29/25 17:57 / jp
Benzene	ND	mg/kg-dry	D	0.29	0.07	MA-VPH	07/29/25 17:57 / jp
Toluene	ND	mg/kg-dry	D	0.80	21	MA-VPH	07/29/25 17:57 / jp
Ethylbenzene	11	mg/kg-dry	*	0.29	6.4	MA-VPH	07/29/25 17:57 / jp
m+p-Xylenes	ND	mg/kg-dry	D	0.80		MA-VPH	07/29/25 17:57 / jp
o-Xylene	ND	mg/kg-dry	D	0.80		MA-VPH	07/29/25 17:57 / jp
Xylenes, Total	ND	mg/kg-dry	D	0.80	72	MA-VPH	07/29/25 17:57 / jp
Naphthalene	ND	mg/kg-dry	D	0.58	2.2	MA-VPH	07/29/25 17:57 / jp
C9 to C10 Aromatics	224	mg/kg-dry	*	12	130	MA-VPH	07/29/25 17:57 / jp
C5 to C8 Aliphatics	199	mg/kg-dry	*	12	52	MA-VPH	07/29/25 17:57 / jp
C9 to C12 Aliphatics	403	mg/kg-dry	*	12	77	MA-VPH	07/29/25 17:57 / jp
Total Purgeable Hydrocarbons	645	mg/kg-dry		12		MA-VPH	07/29/25 17:57 / jp
Surr: VPH Aromatics Surrogate	191	%REC	S	70-130		MA-VPH	07/29/25 17:57 / jp
Surr: VPH Aliphatics Surrogate	257	%REC	S	70-130		MA-VPH	07/29/25 17:57 / jp
- Note 1: The C5 to C8 Aliphatics value is corrected for aromatic constituents Benzene and Toluene. - Note 2: The C9 to C12 Aliphatics value is corrected for aromatic constituents Ethylbenzene, m+p-Xylenes, o-Xylene and C9 to C10 Aromatics. - * = The reported value exceeds the Maximum Contaminant Limit (MCL). The MCLs listed for target analyte and hydrocarbon range values are the most conservative Montana DEQ RBSLs. These limits may not apply to your samples. - S = The Surrogate recovery was outside QC advisory limits due to positive sample matrix interference.							

EXTRACTABLE PETROLEUM HYDROCARBONS-SCREEN

Total Extractable Hydrocarbons	147	mg/kg-dry		13	200	SW8015M	07/31/25 00:18 / amn
Surr: o-Terphenyl	87.0	%REC		40-140		SW8015M	07/31/25 00:18 / amn
- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.							

Report Definitions:
 RL - Analyte Reporting Limit
 QCL - Quality Control Limit
 * - The result exceeds the Maximum Contaminant Level (MCL)
 S - Spike recovery outside of advisory limits

MCL - Maximum Contaminant Level
 ND - Not detected at the Reporting Limit (RL)
 D - Reporting Limit (RL) increased due to sample matrix



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Marketing Specialties
Project: MT Air Controls
Lab ID: B25071795-003
Client Sample ID: T2S

Report Date: 08/20/25
Collection Date: 07/21/25 09:50
Date Received: 07/21/25
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
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PHYSICAL CHARACTERISTICS

Moisture	13.3	wt%		0.2		D2974	07/22/25 09:12 / rlk
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PETROLEUM HYDROCARBONS-VOLATILE (VPH)

Methyl tert-butyl ether (MTBE)	ND	mg/kg-dry	D	2.6	0.078	MA-VPH	07/30/25 14:29 / jp
Benzene	ND	mg/kg-dry	D	1.3	0.07	MA-VPH	07/30/25 14:29 / jp
Toluene	ND	mg/kg-dry	D	4.5	21	MA-VPH	07/30/25 14:29 / jp
Ethylbenzene	37	mg/kg-dry	*	1.3	6.4	MA-VPH	07/30/25 14:29 / jp
m+p-Xylenes	ND	mg/kg-dry	D	5.5		MA-VPH	07/30/25 14:29 / jp
o-Xylene	ND	mg/kg-dry	D	5.0		MA-VPH	07/30/25 14:29 / jp
Xylenes, Total	ND	mg/kg-dry	D	5.0	72	MA-VPH	07/30/25 14:29 / jp
Naphthalene	23	mg/kg-dry	*	2.6	2.2	MA-VPH	07/30/25 14:29 / jp
C9 to C10 Aromatics	965	mg/kg-dry	*	53	130	MA-VPH	07/30/25 14:29 / jp
C5 to C8 Aliphatics	718	mg/kg-dry	*	53	52	MA-VPH	07/30/25 14:29 / jp
C9 to C12 Aliphatics	1800	mg/kg-dry	*	53	77	MA-VPH	07/30/25 14:29 / jp
Total Purgeable Hydrocarbons	2740	mg/kg-dry		53		MA-VPH	07/30/25 14:29 / jp
Surr: VPH Aromatics Surrogate	0.00	%REC	1	70-130		MA-VPH	07/30/25 14:29 / jp
Surr: VPH Aliphatics Surrogate	0.00	%REC	1	70-130		MA-VPH	07/30/25 14:29 / jp

- Note 1: The C5 to C8 Aliphatics value is corrected for aromatic constituents Benzene and Toluene.

- Note 2: The C9 to C12 Aliphatics value is corrected for aromatic constituents Ethylbenzene, m+p-Xylenes, o-Xylene and C9 to C10 Aromatics.

- * = The reported value exceeds the Maximum Contaminant Limit (MCL). The MCLs listed for target analyte and hydrocarbon range values are the most conservative Montana DEQ RBSLs. These limits may not apply to your samples.

- 1 = The surrogate was not resolved from a closely eluting peak. Surrogate recovery could not be calculated.

EXTRACTABLE PETROLEUM HYDROCARBONS-SCREEN

Total Extractable Hydrocarbons	2570	mg/kg-dry	*	231	200	SW8015M	07/31/25 16:06 / amn
Surr: o-Terphenyl	84.0	%REC		40-140		SW8015M	07/31/25 16:06 / amn

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

EXTRACTABLE PETROLEUM HYDROCARBONS - ALIPHATICS

C9 to C18 Aliphatics	1280	mg/kg-dry	*	23	110	MA-EPH	08/09/25 04:29 / jph
C19 to C36 Aliphatics	120	mg/kg-dry		23	24000	MA-EPH	08/09/25 04:29 / jph
Surr: 1-Chloro-octadecane	89.0	%REC		40-140		MA-EPH	08/09/25 04:29 / jph

EXTRACTABLE PETROLEUM HYDROCARBONS - AROMATICS

C11 to C22 Aromatics	522	mg/kg-dry	*	23	370	MA-EPH	08/09/25 05:13 / jph
Total Extractable Hydrocarbons	2250	mg/kg-dry		23		MA-EPH	08/09/25 05:13 / jph
Surr: 2-Bromonaphthalene	97.0	%REC		40-140		MA-EPH	08/09/25 05:13 / jph
Surr: 2-Fluorobiphenyl	95.0	%REC		40-140		MA-EPH	08/09/25 05:13 / jph
Surr: o-Terphenyl	85.0	%REC		40-140		MA-EPH	08/09/25 05:13 / jph

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

- * = The reported value exceeds the Maximum Contaminant Limit (MCL). The MCLs listed for target analyte and hydrocarbon range values are the most conservative Montana DEQ RBSLs. These limits may not apply to your samples.

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
* - The result exceeds the Maximum Contaminant Level (MCL)

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
D - Reporting Limit (RL) increased due to sample matrix



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Marketing Specialties
Project: MT Air Controls
Lab ID: B25071795-004
Client Sample ID: T2N

Report Date: 08/20/25
Collection Date: 07/21/25 09:45
Date Received: 07/21/25
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
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PHYSICAL CHARACTERISTICS

Moisture	20.1	wt%		0.2		D2974	07/22/25 09:13 / rlk
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PETROLEUM HYDROCARBONS-VOLATILE (VPH)

Methyl tert-butyl ether (MTBE)	ND	mg/kg-dry	D	2.8	0.078	MA-VPH	07/30/25 15:38 / jp
Benzene	ND	mg/kg-dry	D	2.0	0.07	MA-VPH	07/30/25 15:38 / jp
Toluene	ND	mg/kg-dry	D	11	21	MA-VPH	07/30/25 15:38 / jp
Ethylbenzene	74	mg/kg-dry	*	1.4	6.4	MA-VPH	07/30/25 15:38 / jp
m+p-Xylenes	ND	mg/kg-dry	D	1.4		MA-VPH	07/30/25 15:38 / jp
o-Xylene	ND	mg/kg-dry	D	10		MA-VPH	07/30/25 15:38 / jp
Xylenes, Total	ND	mg/kg-dry	D	1.4	72	MA-VPH	07/30/25 15:38 / jp
Naphthalene	ND	mg/kg-dry	D	14	2.2	MA-VPH	07/30/25 15:38 / jp
C9 to C10 Aromatics	1130	mg/kg-dry	*	56	130	MA-VPH	07/30/25 15:38 / jp
C5 to C8 Aliphatics	1310	mg/kg-dry	*	56	52	MA-VPH	07/30/25 15:38 / jp
C9 to C12 Aliphatics	2030	mg/kg-dry	*	56	77	MA-VPH	07/30/25 15:38 / jp
Total Purgeable Hydrocarbons	3820	mg/kg-dry		56		MA-VPH	07/30/25 15:38 / jp
Surr: VPH Aromatics Surrogate	0.00	%REC	1	70-130		MA-VPH	07/30/25 15:38 / jp
Surr: VPH Aliphatics Surrogate	0.00	%REC	1	70-130		MA-VPH	07/30/25 15:38 / jp

- Note 1: The C5 to C8 Aliphatics value is corrected for aromatic constituents Benzene and Toluene.

- Note 2: The C9 to C12 Aliphatics value is corrected for aromatic constituents Ethylbenzene, m+p-Xylenes, o-Xylene and C9 to C10 Aromatics.

- * = The reported value exceeds the Maximum Contaminant Limit (MCL). The MCLs listed for target analyte and hydrocarbon range values are the most conservative Montana DEQ RBSLs. These limits may not apply to your samples.

- 1 = The surrogate was not resolved from a closely eluting peak. Surrogate recovery could not be calculated.

EXTRACTABLE PETROLEUM HYDROCARBONS-SCREEN

Total Extractable Hydrocarbons	9730	mg/kg-dry	*	505	200	SW8015M	07/31/25 18:16 / amn
Surr: o-Terphenyl	52.0	%REC		40-140		SW8015M	07/31/25 18:16 / amn

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

EXTRACTABLE PETROLEUM HYDROCARBONS - ALIPHATICS

C9 to C18 Aliphatics	5630	mg/kg-dry	*	126	110	MA-EPH	08/11/25 08:35 / jph
C19 to C36 Aliphatics	603	mg/kg-dry		126	24000	MA-EPH	08/11/25 08:35 / jph
Surr: 1-Chloro-octadecane	71.0	%REC		40-140		MA-EPH	08/11/25 08:35 / jph

EXTRACTABLE PETROLEUM HYDROCARBONS - AROMATICS

C11 to C22 Aromatics	2020	mg/kg-dry	*	63	370	MA-EPH	08/09/25 07:26 / jph
Total Extractable Hydrocarbons	8690	mg/kg-dry		63		MA-EPH	08/09/25 07:26 / jph
Surr: 2-Bromonaphthalene	72.0	%REC		40-140		MA-EPH	08/09/25 07:26 / jph
Surr: 2-Fluorobiphenyl	98.0	%REC		40-140		MA-EPH	08/09/25 07:26 / jph
Surr: o-Terphenyl	99.0	%REC		40-140		MA-EPH	08/09/25 07:26 / jph

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

- * = The reported value exceeds the Maximum Contaminant Limit (MCL). The MCLs listed for target analyte and hydrocarbon range values are the most conservative Montana DEQ RBSLs. These limits may not apply to your samples.

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
* - The result exceeds the Maximum Contaminant Level (MCL)

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
D - Reporting Limit (RL) increased due to sample matrix

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Marketing Specialties
Project: MT Air Controls
Lab ID: B25071795-005
Client Sample ID: T3S

Report Date: 08/20/25
Collection Date: 07/21/25 10:05
Date Received: 07/21/25
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
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PHYSICAL CHARACTERISTICS

Moisture	17.6	wt%		0.2		D2974	07/22/25 09:14 / rlk
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PETROLEUM HYDROCARBONS-VOLATILE (VPH)

Methyl tert-butyl ether (MTBE)	ND	mg/kg-dry	D	1.1	0.078	MA-VPH	07/30/25 16:47 / jp
Benzene	ND	mg/kg-dry	D	0.56	0.07	MA-VPH	07/30/25 16:47 / jp
Toluene	ND	mg/kg-dry	D	0.56	21	MA-VPH	07/30/25 16:47 / jp
Ethylbenzene	ND	mg/kg-dry	D	3.1	6.4	MA-VPH	07/30/25 16:47 / jp
m+p-Xylenes	ND	mg/kg-dry	D	0.56		MA-VPH	07/30/25 16:47 / jp
o-Xylene	ND	mg/kg-dry	D	1.5		MA-VPH	07/30/25 16:47 / jp
Xylenes, Total	ND	mg/kg-dry	D	0.56	72	MA-VPH	07/30/25 16:47 / jp
Naphthalene	ND	mg/kg-dry	D	1.1	2.2	MA-VPH	07/30/25 16:47 / jp
C9 to C10 Aromatics	635	mg/kg-dry	*	23	130	MA-VPH	07/30/25 16:47 / jp
C5 to C8 Aliphatics	60	mg/kg-dry	*	23	52	MA-VPH	07/30/25 16:47 / jp
C9 to C12 Aliphatics	987	mg/kg-dry	*	23	77	MA-VPH	07/30/25 16:47 / jp
Total Purgeable Hydrocarbons	1570	mg/kg-dry		23		MA-VPH	07/30/25 16:47 / jp
Surr: VPH Aromatics Surrogate	141	%REC	S	70-130		MA-VPH	07/30/25 16:47 / jp
Surr: VPH Aliphatics Surrogate	172	%REC	S	70-130		MA-VPH	07/30/25 16:47 / jp

- Note 1: The C5 to C8 Aliphatics value is corrected for aromatic constituents Benzene and Toluene.

- Note 2: The C9 to C12 Aliphatics value is corrected for aromatic constituents Ethylbenzene, m+p-Xylenes, o-Xylene and C9 to C10 Aromatics.

- *The reported value exceeds the Maximum Contaminant Limit (MCL). The MCLs listed for target analyte and hydrocarbon range values are the most conservative Montana DEQ RBSLs. These limits may not apply to your samples.

- The sample was received at the laboratory in a container where the level of soil exceeded the level of methanol.

EXTRACTABLE PETROLEUM HYDROCARBONS-SCREEN

Total Extractable Hydrocarbons	2340	mg/kg-dry	*	245	200	SW8015M	07/31/25 16:49 / amn
Surr: o-Terphenyl	85.0	%REC		40-140		SW8015M	07/31/25 16:49 / amn

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

EXTRACTABLE PETROLEUM HYDROCARBONS - ALIPHATICS

C9 to C18 Aliphatics	1270	mg/kg-dry	*	49	110	MA-EPH	08/11/25 09:19 / jph
C19 to C36 Aliphatics	384	mg/kg-dry		49	24000	MA-EPH	08/11/25 09:19 / jph
Surr: 1-Chloro-octadecane	82.0	%REC		40-140		MA-EPH	08/11/25 09:19 / jph

EXTRACTABLE PETROLEUM HYDROCARBONS - AROMATICS

C11 to C22 Aromatics	393	mg/kg-dry	*	25	370	MA-EPH	08/09/25 08:55 / jph
Total Extractable Hydrocarbons	2140	mg/kg-dry		25		MA-EPH	08/09/25 08:55 / jph
Surr: 2-Bromonaphthalene	77.0	%REC		40-140		MA-EPH	08/09/25 08:55 / jph
Surr: 2-Fluorobiphenyl	88.0	%REC		40-140		MA-EPH	08/09/25 08:55 / jph
Surr: o-Terphenyl	89.0	%REC		40-140		MA-EPH	08/09/25 08:55 / jph

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

- *The reported value exceeds the Maximum Contaminant Limit (MCL). The MCLs listed for target analyte and hydrocarbon range values are the most conservative Montana DEQ RBSLs. These limits may not apply to your samples.

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
* - The result exceeds the Maximum Contaminant Level (MCL)
S - Spike recovery outside of advisory limits

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
D - Reporting Limit (RL) increased due to sample matrix

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Marketing Specialties
Project: MT Air Controls
Lab ID: B25071795-006
Client Sample ID: T3N

Report Date: 08/20/25
Collection Date: 07/21/25 10:05
Date Received: 07/21/25
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
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PHYSICAL CHARACTERISTICS

Moisture	22.6	wt%		0.2		D2974	07/22/25 09:14 / rlk
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PETROLEUM HYDROCARBONS-VOLATILE (VPH)

Methyl tert-butyl ether (MTBE)	ND	mg/kg-dry	D	1.1	0.078	MA-VPH	07/30/25 17:56 / jp
Benzene	ND	mg/kg-dry	D	0.56	0.07	MA-VPH	07/30/25 17:56 / jp
Toluene	ND	mg/kg-dry	D	0.56	21	MA-VPH	07/30/25 17:56 / jp
Ethylbenzene	ND	mg/kg-dry	D	0.56	6.4	MA-VPH	07/30/25 17:56 / jp
m+p-Xylenes	ND	mg/kg-dry	D	0.56		MA-VPH	07/30/25 17:56 / jp
o-Xylene	ND	mg/kg-dry	D	0.56		MA-VPH	07/30/25 17:56 / jp
Xylenes, Total	ND	mg/kg-dry	D	0.56	72	MA-VPH	07/30/25 17:56 / jp
Naphthalene	ND	mg/kg-dry	D	1.5	2.2	MA-VPH	07/30/25 17:56 / jp
C9 to C10 Aromatics	448	mg/kg-dry	*	22	130	MA-VPH	07/30/25 17:56 / jp
C5 to C8 Aliphatics	99	mg/kg-dry	*	22	52	MA-VPH	07/30/25 17:56 / jp
C9 to C12 Aliphatics	783	mg/kg-dry	*	22	77	MA-VPH	07/30/25 17:56 / jp
Total Purgeable Hydrocarbons	1240	mg/kg-dry		22		MA-VPH	07/30/25 17:56 / jp
Surr: VPH Aromatics Surrogate	97.0	%REC		70-130		MA-VPH	07/30/25 17:56 / jp
Surr: VPH Aliphatics Surrogate	108	%REC		70-130		MA-VPH	07/30/25 17:56 / jp

- Note 1: The C5 to C8 Aliphatics value is corrected for aromatic constituents Benzene and Toluene.

- Note 2: The C9 to C12 Aliphatics value is corrected for aromatic constituents Ethylbenzene, m+p-Xylenes, o-Xylene and C9 to C10 Aromatics.

- *The reported value exceeds the Maximum Contaminant Limit (MCL). The MCLs listed for target analyte and hydrocarbon range values are the most conservative Montana DEQ RBSLs. These limits may not apply to your samples.

- The sample was received at the laboratory in a container where the level of soil exceeded the level of methanol.

EXTRACTABLE PETROLEUM HYDROCARBONS-SCREEN

Total Extractable Hydrocarbons	1760	mg/kg-dry	*	254	200	SW8015M	07/31/25 17:32 / amn
Surr: o-Terphenyl	86.0	%REC		40-140		SW8015M	07/31/25 17:32 / amn

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

EXTRACTABLE PETROLEUM HYDROCARBONS - ALIPHATICS

C9 to C18 Aliphatics	1130	mg/kg-dry	*	63	110	MA-EPH	08/11/25 10:03 / jph
C19 to C36 Aliphatics	84	mg/kg-dry		63	24000	MA-EPH	08/11/25 10:03 / jph
Surr: 1-Chloro-octadecane	86.0	%REC		40-140		MA-EPH	08/11/25 10:03 / jph

EXTRACTABLE PETROLEUM HYDROCARBONS - AROMATICS

C11 to C22 Aromatics	286	mg/kg-dry		13	370	MA-EPH	08/09/25 10:23 / jph
Total Extractable Hydrocarbons	1540	mg/kg-dry		13		MA-EPH	08/09/25 10:23 / jph
Surr: 2-Bromonaphthalene	94.0	%REC		40-140		MA-EPH	08/09/25 10:23 / jph
Surr: 2-Fluorobiphenyl	105	%REC		40-140		MA-EPH	08/09/25 10:23 / jph
Surr: o-Terphenyl	93.0	%REC		40-140		MA-EPH	08/09/25 10:23 / jph

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.

- *The reported value exceeds the Maximum Contaminant Limit (MCL). The MCLs listed for target analyte and hydrocarbon range values are the most conservative Montana DEQ RBSLs. These limits may not apply to your samples.

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
* - The result exceeds the Maximum Contaminant Level (MCL)

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
D - Reporting Limit (RL) increased due to sample matrix



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Marketing Specialties
Project: MT Air Controls
Lab ID: B25071795-007
Client Sample ID: Trip Blank

Report Date: 08/20/25
Collection Date: 07/21/25 09:45
Date Received: 07/21/25
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PETROLEUM HYDROCARBONS-VOLATILE (VPH)							
Methyl tert-butyl ether (MTBE)	ND	mg/kg		0.10	0.078	MA-VPH	07/29/25 14:30 / jp
Benzene	ND	mg/kg		0.050	0.07	MA-VPH	07/29/25 14:30 / jp
Toluene	ND	mg/kg		0.050	21	MA-VPH	07/29/25 14:30 / jp
Ethylbenzene	ND	mg/kg		0.050	6.4	MA-VPH	07/29/25 14:30 / jp
m+p-Xylenes	ND	mg/kg		0.050		MA-VPH	07/29/25 14:30 / jp
o-Xylene	ND	mg/kg		0.050		MA-VPH	07/29/25 14:30 / jp
Xylenes, Total	ND	mg/kg		0.050	72	MA-VPH	07/29/25 14:30 / jp
Naphthalene	ND	mg/kg		0.10	2.2	MA-VPH	07/29/25 14:30 / jp
C9 to C10 Aromatics	ND	mg/kg		2.0	130	MA-VPH	07/29/25 14:30 / jp
C5 to C8 Aliphatics	ND	mg/kg		2.0	52	MA-VPH	07/29/25 14:30 / jp
C9 to C12 Aliphatics	ND	mg/kg		2.0	77	MA-VPH	07/29/25 14:30 / jp
Total Purgeable Hydrocarbons	ND	mg/kg		2.0		MA-VPH	07/29/25 14:30 / jp
Surr: VPH Aromatics Surrogate	93.0	%REC		70-130		MA-VPH	07/29/25 14:30 / jp
Surr: VPH Aliphatics Surrogate	97.0	%REC		70-130		MA-VPH	07/29/25 14:30 / jp

- Note 1: The C5 to C8 Aliphatics value is corrected for aromatic constituents Benzene and Toluene.

- Note 2: The C9 to C12 Aliphatics value is corrected for aromatic constituents Ethylbenzene, m+p-Xylenes, o-Xylene and C9 to C10 Aromatics.

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071795

Report Date: 08/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: D2974										Batch: R446245
Lab ID: B25071722-015B DUP		Sample Duplicate				Run: BAL #32_250723A				07/22/25 09:10
Moisture		18.4	wt%	0.20				3.0	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071795

Report Date: 08/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-EPH										Batch: 202161
Lab ID: MB-202161-201907	3	Method Blank				Run: GCFID-HP2-B_250808C				08/08/25 14:21
C9 to C18 Aliphatics		ND	mg/kg	10						
C19 to C36 Aliphatics		ND	mg/kg	10						
Surr: 1-Chloro-octadecane				0.067	86	40	140			
Lab ID: LCS-202161-201907	17	Laboratory Control Sample				Run: GCFID-HP2-B_250808C				08/08/25 15:51
C9 to C18 Aliphatics		28.2	mg/kg	10	71	40	140			
C19 to C36 Aliphatics		52.7	mg/kg	10	99	40	140			
n-Nonane		2.82	mg/kg	0.17	42	30	140			
n-Decane		3.67	mg/kg	0.17	55	40	140			
n-Dodecane		4.30	mg/kg	0.17	64	40	140			
n-Tetradecane		5.08	mg/kg	0.17	76	40	140			
n-Hexadecane		5.71	mg/kg	0.17	86	40	140			
n-Octadecane		6.04	mg/kg	0.17	91	40	140			
n-Nonadecane		6.40	mg/kg	0.17	96	40	140			
n-Eicosane		6.47	mg/kg	0.17	97	40	140			
n-Docosane		6.53	mg/kg	0.17	98	40	140			
n-Tetracosane		6.66	mg/kg	0.17	100	40	140			
n-Hexacosane		6.55	mg/kg	0.17	98	40	140			
n-Octacosane		6.57	mg/kg	0.17	99	40	140			
n-Triacontane		6.63	mg/kg	0.17	99	40	140			
n-Hexatriacontane		6.71	mg/kg	0.17	101	40	140			
Surr: 1-Chloro-octadecane				0.067	87	40	140			
Lab ID: LCSD-202161-201907	17	Laboratory Control Sample Duplicate				Run: GCFID-HP2-B_250808C				08/08/25 17:20
C9 to C18 Aliphatics		30.0	mg/kg	10	75	40	140	6.1	20	
C19 to C36 Aliphatics		55.9	mg/kg	10	105	40	140	5.9	20	
n-Nonane		2.89	mg/kg	0.17	43	30	140	2.6	30	
n-Decane		3.91	mg/kg	0.17	59	40	140	6.2	20	
n-Dodecane		4.65	mg/kg	0.17	70	40	140	7.8	20	
n-Tetradecane		5.40	mg/kg	0.17	81	40	140	6.0	20	
n-Hexadecane		6.10	mg/kg	0.17	91	40	140	6.5	20	
n-Octadecane		6.46	mg/kg	0.17	97	40	140	6.7	20	
n-Nonadecane		6.81	mg/kg	0.17	102	40	140	6.3	20	
n-Eicosane		6.88	mg/kg	0.17	103	40	140	6.2	20	
n-Docosane		6.92	mg/kg	0.17	104	40	140	5.8	20	
n-Tetracosane		7.06	mg/kg	0.17	106	40	140	5.7	20	
n-Hexacosane		6.93	mg/kg	0.17	104	40	140	5.8	20	
n-Octacosane		6.96	mg/kg	0.17	104	40	140	5.7	20	
n-Triacontane		7.03	mg/kg	0.17	105	40	140	5.8	20	
n-Hexatriacontane		7.09	mg/kg	0.17	106	40	140	5.5	20	
Surr: 1-Chloro-octadecane				0.067	92	40	140			
Lab ID: B25072251-001BMS	17	Sample Matrix Spike				Run: GCFID-HP2-B_250808C				08/08/25 21:02
C9 to C18 Aliphatics		37.6	mg/kg-dry	14	69	40	140			
C19 to C36 Aliphatics		73.8	mg/kg-dry	14	102	40	140			
n-Nonane		3.60	mg/kg-dry	0.23	40	30	140			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071795

Report Date: 08/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-EPH										Batch: 202161
Lab ID: B25072251-001BMS	17	Sample Matrix Spike		Run: GCFID-HP2-B_250808C				08/08/25 21:02		
n-Decane		4.75	mg/kg-dry	0.23	52	40	140			
n-Dodecane		5.52	mg/kg-dry	0.23	61	40	140			
n-Tetradecane		6.56	mg/kg-dry	0.23	72	40	140			
n-Hexadecane		7.63	mg/kg-dry	0.23	84	40	140			
n-Octadecane		8.33	mg/kg-dry	0.23	92	40	140			
n-Nonadecane		8.85	mg/kg-dry	0.23	97	40	140			
n-Eicosane		8.99	mg/kg-dry	0.23	99	40	140			
n-Docosane		9.10	mg/kg-dry	0.23	100	40	140			
n-Tetracosane		9.30	mg/kg-dry	0.23	102	40	140			
n-Hexacosane		9.14	mg/kg-dry	0.23	101	40	140			
n-Octacosane		9.18	mg/kg-dry	0.23	101	40	140			
n-Triacontane		9.27	mg/kg-dry	0.23	102	40	140			
n-Hexatriacontane		9.32	mg/kg-dry	0.23	103	40	140			
Surr: 1-Chloro-octadecane				0.091	89	40	140			
Lab ID: B25072251-001BMSD	17	Sample Matrix Spike Duplicate		Run: GCFID-HP2-B_250808C				08/08/25 22:32		
C9 to C18 Aliphatics		40.3	mg/kg-dry	14	72	40	140	6.9	20	
C19 to C36 Aliphatics		78.8	mg/kg-dry	14	106	40	140	6.5	20	
n-Nonane		3.90	mg/kg-dry	0.23	42	30	140	7.8	30	
n-Decane		5.14	mg/kg-dry	0.23	55	40	140	7.7	20	
n-Dodecane		5.99	mg/kg-dry	0.23	65	40	140	8.1	20	
n-Tetradecane		7.03	mg/kg-dry	0.23	76	40	140	6.9	20	
n-Hexadecane		8.15	mg/kg-dry	0.23	88	40	140	6.5	20	
n-Octadecane		8.83	mg/kg-dry	0.23	95	40	140	5.9	20	
n-Nonadecane		9.41	mg/kg-dry	0.23	101	40	140	6.0	20	
n-Eicosane		9.57	mg/kg-dry	0.23	103	40	140	6.2	20	
n-Docosane		9.73	mg/kg-dry	0.23	105	40	140	6.7	20	
n-Tetracosane		9.95	mg/kg-dry	0.23	107	40	140	6.8	20	
n-Hexacosane		9.79	mg/kg-dry	0.23	106	40	140	6.9	20	
n-Octacosane		9.83	mg/kg-dry	0.23	106	40	140	6.9	20	
n-Triacontane		9.95	mg/kg-dry	0.23	107	40	140	7.0	20	
n-Hexatriacontane		10.1	mg/kg-dry	0.23	109	40	140	8.4	20	
Surr: 1-Chloro-octadecane				0.093	93	40	140			
Lab ID: MB-202161-201907	20	Method Blank		Run: GCFID-HP2-B_250808C				08/08/25 15:06		
C11 to C22 Aromatics		ND	mg/kg	10						
Total Extractable Hydrocarbons		ND	mg/kg	10						
Naphthalene		ND	mg/kg	0.17						
2-Methylnaphthalene		ND	mg/kg	0.17						
Acenaphthylene		ND	mg/kg	0.17						
Acenaphthene		ND	mg/kg	0.17						
Fluorene		ND	mg/kg	0.17						
Phenanthrene		ND	mg/kg	0.17						
Anthracene		ND	mg/kg	0.17						
Fluoranthene		ND	mg/kg	0.17						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071795

Report Date: 08/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-EPH										Batch: 202161
Lab ID: MB-202161-201907	20	Method Blank				Run: GCFID-HP2-B_250808C				08/08/25 15:06
Pyrene		ND	mg/kg	0.17						
Benzo(a)Anthracene		ND	mg/kg	0.17						
Benzo(a)Pyrene		ND	mg/kg	0.17						
Benzo(b)Fluoranthene/Benzo(k)Fluorant		ND	mg/kg	0.17						
Benzo(g,h,i)perylene		ND	mg/kg	0.17						
Chrysene		ND	mg/kg	0.17						
Dibenz(a,h)anthracene/Indeno(1,2,3-cd)		ND	mg/kg	0.17						
Surr: 2-Bromonaphthalene				0.067	96	40	140			
Surr: 2-Fluorobiphenyl				0.067	95	40	140			
Surr: o-Terphenyl				0.067	88	40	140			
Lab ID: LCS-202161-201907	20	Laboratory Control Sample				Run: GCFID-HP2-B_250808C				08/08/25 16:35
C11 to C22 Aromatics		115	mg/kg	10	96	40	140			
Total Extractable Hydrocarbons		197	mg/kg	10	92	40	140			
Naphthalene		4.07	mg/kg	0.17	61	40	140			
2-Methylnaphthalene		4.60	mg/kg	0.17	69	40	140			
Acenaphthylene		5.44	mg/kg	0.17	82	40	140			
Acenaphthene		5.39	mg/kg	0.17	81	40	140			
Fluorene		6.07	mg/kg	0.17	91	40	140			
Phenanthrene		6.59	mg/kg	0.17	99	40	140			
Anthracene		6.86	mg/kg	0.17	103	40	140			
Fluoranthene		6.90	mg/kg	0.17	103	40	140			
Pyrene		6.87	mg/kg	0.17	103	40	140			
Benzo(a)Anthracene		6.90	mg/kg	0.17	103	40	140			
Benzo(a)Pyrene		7.28	mg/kg	0.17	109	40	140			
Benzo(b)Fluoranthene/Benzo(k)Fluorant		13.7	mg/kg	0.17	103	40	140			
Benzo(g,h,i)perylene		6.68	mg/kg	0.17	100	40	140			
Chrysene		7.33	mg/kg	0.17	110	40	140			
Dibenz(a,h)anthracene/Indeno(1,2,3-cd)		13.7	mg/kg	0.17	103	40	140			
Surr: 2-Bromonaphthalene				0.067	102	40	140			
Surr: 2-Fluorobiphenyl				0.067	95	40	140			
Surr: o-Terphenyl				0.067	97	40	140			
Lab ID: LCSD-202161-201907	20	Laboratory Control Sample Duplicate				Run: GCFID-HP2-B_250808C				08/08/25 18:04
C11 to C22 Aromatics		122	mg/kg	10	102	40	140	6.2	20	
Total Extractable Hydrocarbons		209	mg/kg	10	98	40	140	6.1	20	
Naphthalene		4.54	mg/kg	0.17	68	40	140	11	20	
2-Methylnaphthalene		5.04	mg/kg	0.17	76	40	140	9.2	20	
Acenaphthylene		5.82	mg/kg	0.17	87	40	140	6.8	20	
Acenaphthene		5.74	mg/kg	0.17	86	40	140	6.3	20	
Fluorene		6.42	mg/kg	0.17	96	40	140	5.6	20	
Phenanthrene		6.99	mg/kg	0.17	105	40	140	5.9	20	
Anthracene		7.27	mg/kg	0.17	109	40	140	5.9	20	
Fluoranthene		7.30	mg/kg	0.17	110	40	140	5.7	20	
Pyrene		7.26	mg/kg	0.17	109	40	140	5.6	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071795

Report Date: 08/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-EPH										Batch: 202161
Lab ID: LCSD-202161-201907	20	Laboratory Control Sample Duplicate				Run: GCFID-HP2-B_250808C			08/08/25 18:04	
Benzo(a)Anthracene		7.33	mg/kg	0.17	110	40	140	6.0	20	
Benzo(a)Pyrene		7.74	mg/kg	0.17	116	40	140	6.1	20	
Benzo(b)Fluoranthene/Benzo(k)Fluorant		14.4	mg/kg	0.17	108	40	140	5.2	20	
Benzo(g,h,i)perylene		7.09	mg/kg	0.17	106	40	140	5.9	20	
Chrysene		7.71	mg/kg	0.17	116	40	140	5.0	20	
Dibenz(a,h)anthracene/Indeno(1,2,3-cd)		14.5	mg/kg	0.17	109	40	140	5.8	20	
Surr: 2-Bromonaphthalene				0.067	105	40	140			
Surr: 2-Fluorobiphenyl				0.067	99	40	140			
Surr: o-Terphenyl				0.067	103	40	140			
Lab ID: B25072251-001BMS	20	Sample Matrix Spike				Run: GCFID-HP2-B_250808C			08/08/25 21:47	
C11 to C22 Aromatics		152	mg/kg-dry	14	93	40	140			
Total Extractable Hydrocarbons		265	mg/kg-dry	14	91	40	140			
Naphthalene		5.37	mg/kg-dry	0.23	59	40	140			
2-Methylnaphthalene		5.95	mg/kg-dry	0.23	66	40	140			
Acenaphthylene		6.95	mg/kg-dry	0.23	77	40	140			
Acenaphthene		6.87	mg/kg-dry	0.23	76	40	140			
Fluorene		7.70	mg/kg-dry	0.23	85	40	140			
Phenanthrene		8.40	mg/kg-dry	0.23	93	40	140			
Anthracene		8.97	mg/kg-dry	0.23	99	40	140			
Fluoranthene		9.20	mg/kg-dry	0.23	101	40	140			
Pyrene		9.15	mg/kg-dry	0.23	101	40	140			
Benzo(a)Anthracene		9.27	mg/kg-dry	0.23	102	40	140			
Benzo(a)Pyrene		10.1	mg/kg-dry	0.23	111	40	140			
Benzo(b)Fluoranthene/Benzo(k)Fluorant		18.4	mg/kg-dry	0.23	101	40	140			
Benzo(g,h,i)perylene		9.06	mg/kg-dry	0.23	100	40	140			
Chrysene		9.88	mg/kg-dry	0.23	109	40	140			
Dibenz(a,h)anthracene/Indeno(1,2,3-cd)		18.5	mg/kg-dry	0.23	102	40	140			
Surr: 2-Bromonaphthalene				0.091	102	40	140			
Surr: 2-Fluorobiphenyl				0.091	96	40	140			
Surr: o-Terphenyl				0.091	92	40	140			
Lab ID: B25072251-001BMSD	20	Sample Matrix Spike Duplicate				Run: GCFID-HP2-B_250808C			08/08/25 23:16	
C11 to C22 Aromatics		158	mg/kg-dry	14	95	40	140	3.7	20	
Total Extractable Hydrocarbons		278	mg/kg-dry	14	94	40	140	4.8	20	
Naphthalene		5.58	mg/kg-dry	0.23	60	40	140	3.9	20	
2-Methylnaphthalene		6.20	mg/kg-dry	0.23	67	40	140	4.0	20	
Acenaphthylene		7.22	mg/kg-dry	0.23	78	40	140	3.7	20	
Acenaphthene		7.12	mg/kg-dry	0.23	77	40	140	3.6	20	
Fluorene		7.98	mg/kg-dry	0.23	86	40	140	3.6	20	
Phenanthrene		8.80	mg/kg-dry	0.23	95	40	140	4.6	20	
Anthracene		9.30	mg/kg-dry	0.23	100	40	140	3.5	20	
Fluoranthene		9.50	mg/kg-dry	0.23	102	40	140	3.1	20	
Pyrene		9.47	mg/kg-dry	0.23	102	40	140	3.4	20	
Benzo(a)Anthracene		9.66	mg/kg-dry	0.23	104	40	140	4.1	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071795

Report Date: 08/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-EPH										Batch: 202161
Lab ID: B25072251-001BMSD	20	Sample Matrix Spike Duplicate			Run: GCFID-HP2-B_250808C				08/08/25 23:16	
Benzo(a)Pyrene		10.5	mg/kg-dry	0.23	113	40	140	3.9		20
Benzo(b)Fluoranthene/Benzo(k)Fluorant		19.1	mg/kg-dry	0.23	103	40	140	3.7		20
Benzo(g,h,i)perylene		9.42	mg/kg-dry	0.23	102	40	140	3.9		20
Chrysene		10.2	mg/kg-dry	0.23	110	40	140	3.6		20
Dibenz(a,h)anthracene/Indeno(1,2,3-cd)		19.3	mg/kg-dry	0.23	104	40	140	4.0		20
Surr: 2-Bromonaphthalene				0.093	103	40	140			
Surr: 2-Fluorobiphenyl				0.093	96	40	140			
Surr: o-Terphenyl				0.093	95	40	140			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071795

Report Date: 08/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-EPH										Analytical Run: R447308
Lab ID: CCV_0808HP219r-S	15	Continuing Calibration Verification Standard								08/09/25 00:01
n-Nonane		7.25	mg/kg	0.17	109	75	125			
n-Decane		7.47	mg/kg	0.17	112	75	125			
n-Dodecane		7.45	mg/kg	0.17	112	75	125			
n-Tetradecane		7.36	mg/kg	0.17	110	75	125			
n-Hexadecane		7.40	mg/kg	0.17	111	75	125			
n-Octadecane		7.43	mg/kg	0.17	112	75	125			
n-Nonadecane		7.35	mg/kg	0.17	110	75	125			
n-Eicosane		7.43	mg/kg	0.17	112	75	125			
n-Docosane		7.42	mg/kg	0.17	111	75	125			
n-Tetracosane		7.46	mg/kg	0.17	112	75	125			
n-Hexacosane		7.44	mg/kg	0.17	112	75	125			
n-Octacosane		7.46	mg/kg	0.17	112	75	125			
n-Triacontane		7.49	mg/kg	0.17	112	75	125			
n-Hexatriacontane		7.54	mg/kg	0.17	113	75	125			
Surr: 1-Chloro-octadecane				0.067	112	75	125			
Lab ID: CCV_0808HP284r-S	15	Continuing Calibration Verification Standard								08/11/25 00:11
n-Nonane		7.59	mg/kg	0.17	114	75	125			
n-Decane		7.99	mg/kg	0.17	120	75	125			
n-Dodecane		7.87	mg/kg	0.17	118	75	125			
n-Tetradecane		7.80	mg/kg	0.17	117	75	125			
n-Hexadecane		7.84	mg/kg	0.17	118	75	125			
n-Octadecane		7.86	mg/kg	0.17	118	75	125			
n-Nonadecane		7.78	mg/kg	0.17	117	75	125			
n-Eicosane		7.86	mg/kg	0.17	118	75	125			
n-Docosane		7.83	mg/kg	0.17	118	75	125			
n-Tetracosane		7.87	mg/kg	0.17	118	75	125			
n-Hexacosane		7.86	mg/kg	0.17	118	75	125			
n-Octacosane		7.89	mg/kg	0.17	118	75	125			
n-Triacontane		7.94	mg/kg	0.17	119	75	125			
n-Hexatriacontane		8.08	mg/kg	0.17	121	75	125			
Surr: 1-Chloro-octadecane				0.067	118	75	125			
Lab ID: CCV_0808HP220r-S	18	Continuing Calibration Verification Standard								08/09/25 00:46
Naphthalene		7.34	mg/kg	0.17	110	75	125			
2-Methylnaphthalene		7.46	mg/kg	0.17	112	75	125			
Acenaphthylene		7.30	mg/kg	0.17	109	75	125			
Acenaphthene		7.18	mg/kg	0.17	108	75	125			
Fluorene		7.21	mg/kg	0.17	108	75	125			
Phenanthrene		7.28	mg/kg	0.17	109	75	125			
Anthracene		7.08	mg/kg	0.17	106	75	125			
Fluoranthene		7.26	mg/kg	0.17	109	75	125			
Pyrene		7.24	mg/kg	0.17	109	75	125			
Benzo(a)Anthracene		7.18	mg/kg	0.17	108	75	125			
Benzo(a)Pyrene		6.96	mg/kg	0.17	104	75	125			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071795

Report Date: 08/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-EPH									Analytical Run: R447308	
Lab ID: CCV_0808HP220r-S 18 Continuing Calibration Verification Standard									08/09/25 00:46	
Benzo(b)Fluoranthene/Benzo(k)Fluorant	14.0	mg/kg	0.17	105	75	125				
Benzo(g,h,i)perylene	7.23	mg/kg	0.17	108	75	125				
Chrysene	7.07	mg/kg	0.17	106	75	125				
Dibenz(a,h)anthracene/Indeno(1,2,3-cd)	14.3	mg/kg	0.17	108	75	125				
Surr: 2-Bromonaphthalene			0.067	108	75	125				
Surr: 2-Fluorobiphenyl			0.067	109	75	125				
Surr: o-Terphenyl			0.067	108	75	125				

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071795

Report Date: 08/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-VPH										Batch: 201929
Lab ID: LCS-201929	16	Laboratory Control Sample				Run: PE 1_250729A			07/29/25 12:12	
1,2,4-Trimethylbenzene		2.20	mg/kg	0.10	88	70	130			
2,2,4-Trimethylpentane		2.34	mg/kg	0.10	94	70	130			
2-Methylpentane		2.40	mg/kg	0.10	96	70	130			
n-Butylcyclohexane		2.26	mg/kg	0.10	90	70	130			
n-Decane		2.18	mg/kg	0.10	87	70	130			
n-Pentane		2.26	mg/kg	0.10	90	70	130			
Methyl tert-butyl ether (MTBE)		2.34	mg/kg	0.10	94	70	130			
Benzene		2.31	mg/kg	0.050	92	70	130			
Toluene		2.21	mg/kg	0.050	89	70	130			
Ethylbenzene		2.16	mg/kg	0.050	86	70	130			
m+p-Xylenes		4.51	mg/kg	0.050	90	70	130			
o-Xylene		2.22	mg/kg	0.050	89	70	130			
Naphthalene		2.31	mg/kg	0.10	93	70	130			
Total Purgeable Hydrocarbons		32.5	mg/kg	2.0	87	70	130			
Surr: VPH Aromatics Surrogate				0.10	94	70	130			
Surr: VPH Aliphatics Surrogate				0.10	92	70	130			
Lab ID: LCSD-201929	16	Laboratory Control Sample Duplicate				Run: PE 1_250729A			07/29/25 12:47	
1,2,4-Trimethylbenzene		2.23	mg/kg	0.10	89	70	130	1.6	20	
2,2,4-Trimethylpentane		2.38	mg/kg	0.10	95	70	130	1.5	20	
2-Methylpentane		2.42	mg/kg	0.10	97	70	130	0.9	20	
n-Butylcyclohexane		2.31	mg/kg	0.10	92	70	130	2.1	20	
n-Decane		2.31	mg/kg	0.10	93	70	130	6.1	20	
n-Pentane		2.27	mg/kg	0.10	91	70	130	0.5	20	
Methyl tert-butyl ether (MTBE)		2.37	mg/kg	0.10	95	70	130	1.4	20	
Benzene		2.34	mg/kg	0.050	94	70	130	1.4	20	
Toluene		2.25	mg/kg	0.050	90	70	130	1.7	20	
Ethylbenzene		2.19	mg/kg	0.050	88	70	130	1.3	20	
m+p-Xylenes		4.58	mg/kg	0.050	92	70	130	1.4	20	
o-Xylene		2.26	mg/kg	0.050	91	70	130	1.9	20	
Naphthalene		2.36	mg/kg	0.10	94	70	130	1.8	20	
Total Purgeable Hydrocarbons		33.2	mg/kg	2.0	89	70	130	2.1	20	
Surr: VPH Aromatics Surrogate				0.10	94	70	130			
Surr: VPH Aliphatics Surrogate				0.10	93	70	130			
Lab ID: MB-201929	14	Method Blank				Run: PE 1_250729A			07/29/25 13:56	
Methyl tert-butyl ether (MTBE)		ND	mg/kg	0.10						
Benzene		ND	mg/kg	0.050						
Toluene		ND	mg/kg	0.050						
Ethylbenzene		ND	mg/kg	0.050						
m+p-Xylenes		ND	mg/kg	0.050						
o-Xylene		ND	mg/kg	0.050						
Xylenes, Total		ND	mg/kg	0.050						
Naphthalene		ND	mg/kg	0.10						
C9 to C10 Aromatics		ND	mg/kg	2.0						

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071795

Report Date: 08/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-VPH										Batch: 201929
Lab ID: MB-201929	14	Method Blank					Run: PE 1_250729A			07/29/25 13:56
C5 to C8 Aliphatics		ND	mg/kg	2.0						
C9 to C12 Aliphatics		ND	mg/kg	2.0						
Total Purgeable Hydrocarbons		ND	mg/kg	2.0						
Surr: VPH Aromatics Surrogate				0.10	91	70	130			
Surr: VPH Aliphatics Surrogate				0.10	94	70	130			
Lab ID: B25071795-001ADUP	14	Sample Duplicate					Run: PE 1_250729A			07/30/25 13:20
Methyl tert-butyl ether (MTBE)		ND	mg/kg-dry	0.59				20		D
Benzene		ND	mg/kg-dry	0.29				20		D
Toluene		ND	mg/kg-dry	0.29				20		D
Ethylbenzene		4.73	mg/kg-dry	0.29				130	20	R
m+p-Xylenes		0.329	mg/kg-dry	0.29				180	20	R
o-Xylene		ND	mg/kg-dry	0.29					20	D
Xylenes, Total		0.329	mg/kg-dry	0.29				180	20	R
Naphthalene		ND	mg/kg-dry	0.59					20	D
C9 to C10 Aromatics		92.0	mg/kg-dry	12				140	20	R
C5 to C8 Aliphatics		67.1	mg/kg-dry	12				140	20	R*
C9 to C12 Aliphatics		131	mg/kg-dry	12				140	20	R*
Total Purgeable Hydrocarbons		221	mg/kg-dry	12				140	20	R
Surr: VPH Aromatics Surrogate				0.59	138	70	130			S
Surr: VPH Aliphatics Surrogate				0.59	171	70	130			S

- S=The Surrogate recovery was outside QC advisory limits due to positive sample matrix interference.

Qualifiers:

RL - Analyte Reporting Limit

* - The result exceeds the Maximum Contaminant Level (MCL)

R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

D - Reporting Limit (RL) increased due to sample matrix

S - Spike recovery outside of advisory limits

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071795

Report Date: 08/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: MA-VPH										Analytical Run: R446888
Lab ID: CCV_0729PE105r-S	15	Continuing Calibration Verification Standard								07/29/25 11:03
1,2,4-Trimethylbenzene		2.37	mg/kg	0.10	95	75	125			
2,2,4-Trimethylpentane		2.49	mg/kg	0.10	100	75	125			
2-Methylpentane		2.49	mg/kg	0.10	99	75	125			
n-Butylcyclohexane		2.33	mg/kg	0.10	93	75	125			
n-Decane		2.22	mg/kg	0.10	89	75	125			
n-Pentane		2.56	mg/kg	0.10	102	75	125			
Methyl tert-butyl ether (MTBE)		2.50	mg/kg	0.10	100	75	125			
Benzene		2.50	mg/kg	0.050	100	75	125			
Toluene		2.39	mg/kg	0.050	96	75	125			
Ethylbenzene		2.35	mg/kg	0.050	94	75	125			
m+p-Xylenes		4.82	mg/kg	0.050	96	75	125			
o-Xylene		2.38	mg/kg	0.050	95	75	125			
Naphthalene		2.53	mg/kg	0.10	101	75	125			
Surr: VPH Aromatics Surrogate				0.10	93	75	125			
Surr: VPH Aliphatics Surrogate				0.10	94	75	125			
Lab ID: CCV_0729PE143r-S	15	Continuing Calibration Verification Standard								07/30/25 11:02
1,2,4-Trimethylbenzene		2.30	mg/kg	0.10	92	75	125			
2,2,4-Trimethylpentane		2.44	mg/kg	0.10	98	75	125			
2-Methylpentane		2.52	mg/kg	0.10	101	75	125			
n-Butylcyclohexane		2.30	mg/kg	0.10	92	75	125			
n-Decane		2.21	mg/kg	0.10	88	75	125			
n-Pentane		2.68	mg/kg	0.10	107	75	125			
Methyl tert-butyl ether (MTBE)		2.38	mg/kg	0.10	95	75	125			
Benzene		2.43	mg/kg	0.050	97	75	125			
Toluene		2.33	mg/kg	0.050	93	75	125			
Ethylbenzene		2.28	mg/kg	0.050	91	75	125			
m+p-Xylenes		4.68	mg/kg	0.050	94	75	125			
o-Xylene		2.30	mg/kg	0.050	92	75	125			
Naphthalene		2.45	mg/kg	0.10	98	75	125			
Surr: VPH Aromatics Surrogate				0.10	86	75	125			
Surr: VPH Aliphatics Surrogate				0.10	86	75	125			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071795

Report Date: 08/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8015M										Batch: 201907
Lab ID: MB-201907	2	Method Blank					Run: GCFID-HP5-B_250730B			07/30/25 17:54
Total Extractable Hydrocarbons		ND	mg/kg	10						
Surr: o-Terphenyl				0.067	86	40	140			
Lab ID: LCS-201907	2	Laboratory Control Sample					Run: GCFID-HP5-B_250730B			07/30/25 18:37
Total Extractable Hydrocarbons		202	mg/kg	10	95	60	140			
Surr: o-Terphenyl				0.067	92	40	140			
Lab ID: LCSD-201907	2	Laboratory Control Sample Duplicate					Run: GCFID-HP5-B_250730B			07/30/25 19:20
Total Extractable Hydrocarbons		205	mg/kg	10	96	60	140	1.5	20	
Surr: o-Terphenyl				0.067	92	40	140			
Lab ID: B25072251-001BMS	2	Sample Matrix Spike					Run: GCFID-HP5-B_250730B			07/30/25 21:28
Total Extractable Hydrocarbons		263	mg/kg-dry	14	91	60	140			
Surr: o-Terphenyl				0.091	86	40	140			
Lab ID: B25072251-001BMSD	2	Sample Matrix Spike Duplicate					Run: GCFID-HP5-B_250730B			07/30/25 22:10
Total Extractable Hydrocarbons		276	mg/kg-dry	14	93	60	140	4.7	20	
Surr: o-Terphenyl				0.093	89	40	140			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25071795

Report Date: 08/20/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8015M										Analytical Run: R446827
Lab ID: CCV_0730HP507r-S	15	Continuing Calibration Verification Standard								07/30/25 16:28
n-Nonane		6.59	mg/kg		99	75	125			
n-Decane		6.81	mg/kg		102	75	125			
n-Dodecane		6.86	mg/kg		103	75	125			
n-Tetradecane		6.89	mg/kg		103	75	125			
n-Hexadecane		6.96	mg/kg		104	75	125			
n-Octadecane		6.95	mg/kg		104	75	125			
n-Nonadecane		6.96	mg/kg		104	75	125			
n-Eicosane		6.97	mg/kg		105	75	125			
n-Docosane		6.99	mg/kg		105	75	125			
n-Tetracosane		7.02	mg/kg		105	75	125			
n-Hexacosane		7.03	mg/kg		105	75	125			
n-Octacosane		7.04	mg/kg		106	75	125			
n-Triacontane		7.08	mg/kg		106	75	125			
n-Hexatriacontane		7.09	mg/kg		106	75	125			
Surr: o-Terphenyl				0.067	109	75	125			
Lab ID: CCV_0730HP538r-S	15	Continuing Calibration Verification Standard								07/31/25 14:37
n-Nonane		7.28	mg/kg		109	75	125			
n-Decane		7.55	mg/kg		113	75	125			
n-Dodecane		7.33	mg/kg		110	75	125			
n-Tetradecane		7.35	mg/kg		110	75	125			
n-Hexadecane		7.42	mg/kg		111	75	125			
n-Octadecane		7.44	mg/kg		112	75	125			
n-Nonadecane		7.45	mg/kg		112	75	125			
n-Eicosane		7.47	mg/kg		112	75	125			
n-Docosane		7.49	mg/kg		112	75	125			
n-Tetracosane		7.52	mg/kg		113	75	125			
n-Hexacosane		7.54	mg/kg		113	75	125			
n-Octacosane		7.56	mg/kg		113	75	125			
n-Triacontane		7.59	mg/kg		114	75	125			
n-Hexatriacontane		7.63	mg/kg		114	75	125			
Surr: o-Terphenyl				0.067	116	75	125			

Qualifiers:

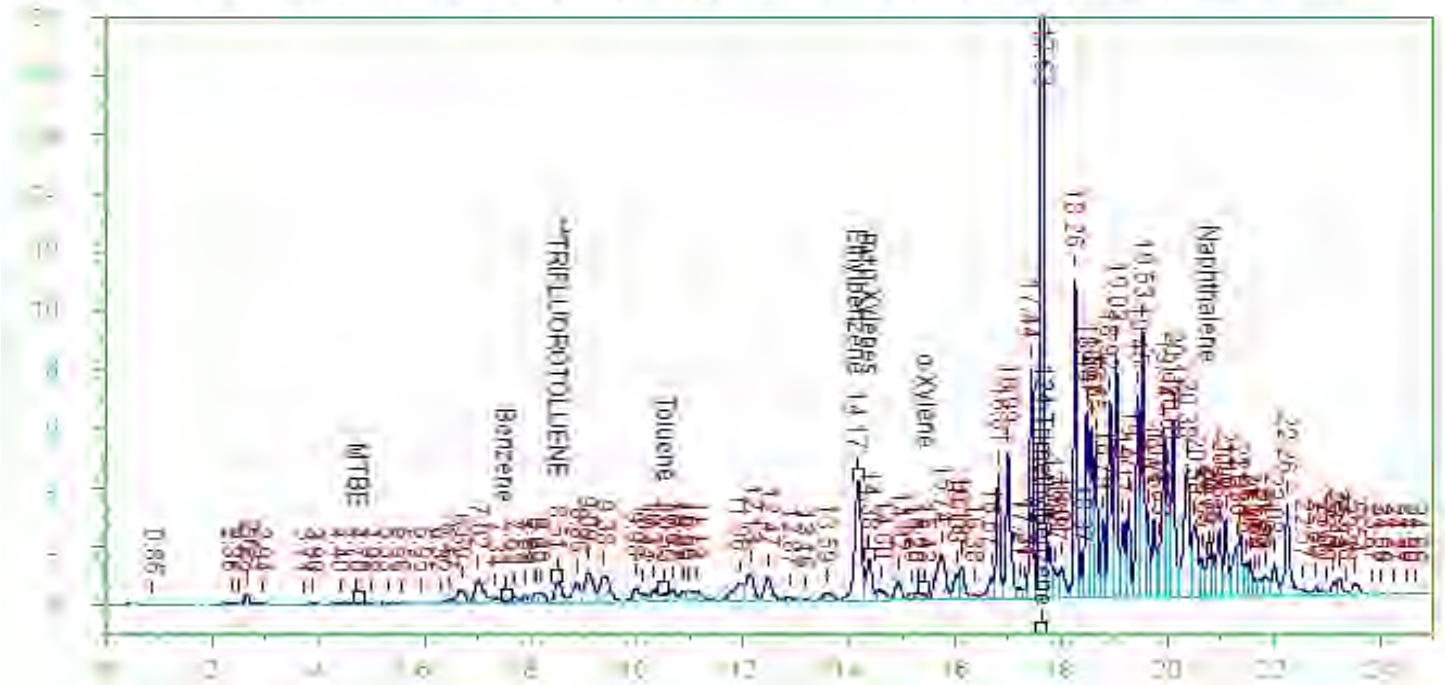
RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

B25071795 - B25071795-001A

Batch ID: 201929

G:\Org\PE1\DATA\PE1072925_B\0729PE1.0045.RAW B25071795-001A_0729PE1.SHC-VPH-MA-S,(0.96,20)



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-001A ;0729PE1 , \$HC-VPH-MA-S,,(0.96,20)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1.0045.RAW
Date & Time Acquired: 7/30/2025 12:11:09 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-1%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPH.CAL
Sample Weight: 50 Dilution: 19.2 S.A.: 0.96

Mean RF for C9 to C10 Aromatic Hydrocarbons: 759.87964

Rt range for C9 to C10 Aromatics: 15.520881 to 20.753365

Aromatic Hydrocarbon Range Area and Quantitation:

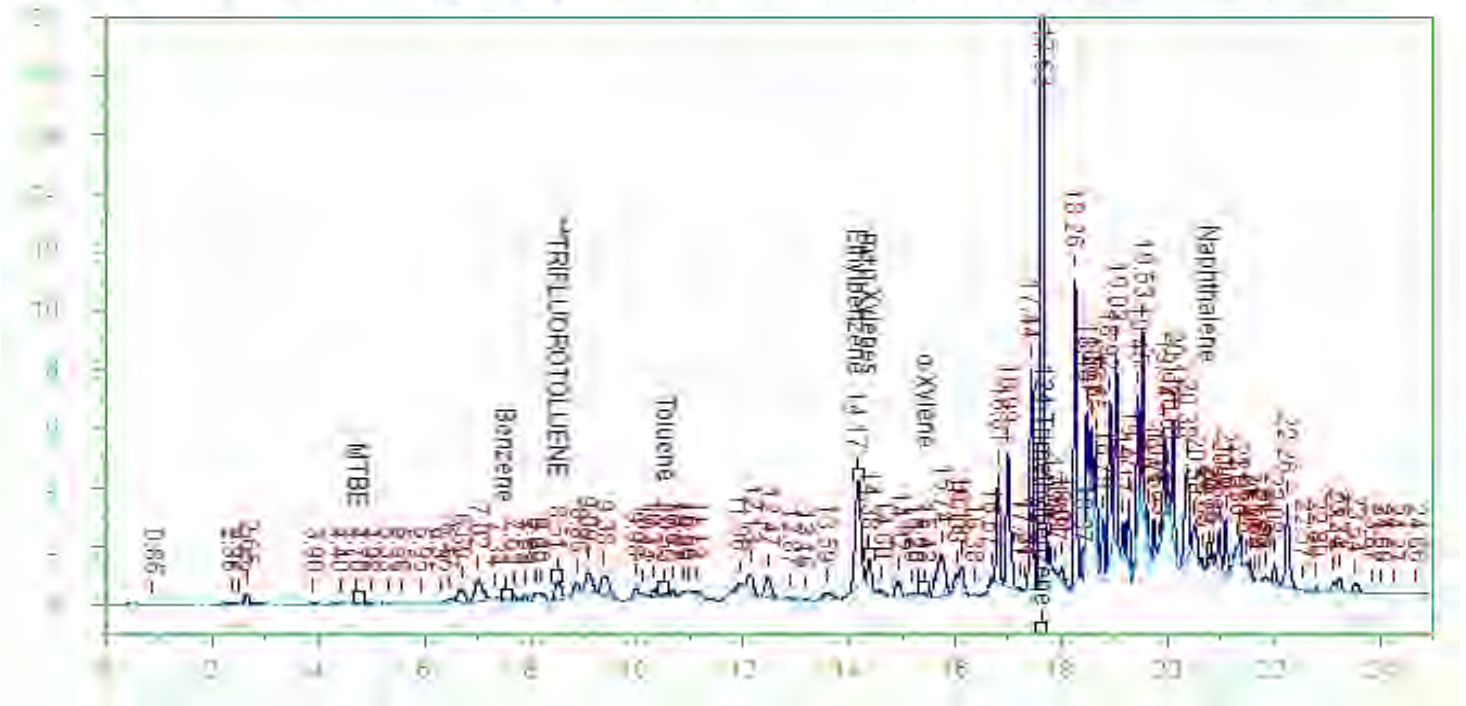
C9-C10 Aromatics Area: 771024.4 C9-C10 Aromatics Amount: 389.63193

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	4.696	4.696	4.696	359	1.920	U
Benzene	0.000	0.000	0.000	0	0.960	U
Toluene	10.527	-2.028	-2.013	2117	0.820	< 1.2 jmp 8/4/25
Ethylbenzene	14.171	-5.697	-5.657	36216	17.337	
m+p-Xylenes	14.381	-5.917	-5.867	10315	4.158	
o-Xylene	15.416	-6.945	-6.901	1428	0.699	< 1.2 jmp 8/4/25
124-Trimethylbenzene	17.629	-9.154	-9.115	154396	80.637	
Naphthalene	20.787	-12.317	-12.273	8430	5.507	No jmp 8/4/25
SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.514	2.400	7233	7.861	327.54	70-130 0 jmp 8/4/25

B25071795 - B25071795-001A

Batch ID: 201929

G:\Org\PE1\DATA\PE1072925_B\0729PE1.0045.RAW B25071795-001A;0729PE1 SHC-VPH-MA-S,(0.96,20)



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-001A ;0729PE1 , \$HC-VPH-MA-S,,(0.96,20)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1.0045.RAW
Date & Time Acquired: 7/30/2025 12:11:09 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-1N%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPH.CAL
Sample Weight: 50 Dilution: 19.2 S.A.: 0.96

Mean RF for C9 to C10 Aromatic Hydrocarbons: 759.87964

Rt range for C9 to C10 Aromatics: 15.520881 to 20.753365

Aromatic Hydrocarbon Range Area and Quantitation:

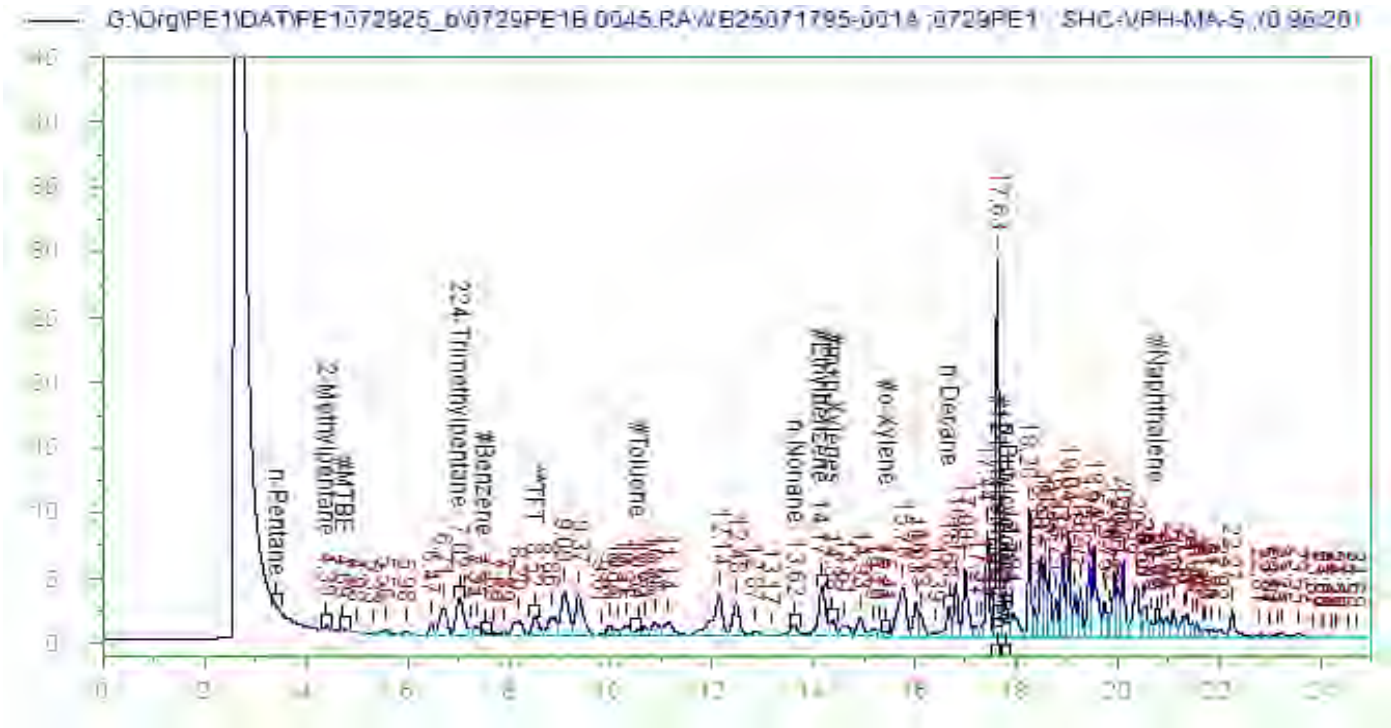
C9-C10 Aromatics Area: 457610.84 C9-C10 Aromatics Amount: 231.25053

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	4.696	4.696	4.696	285	1.920	U
Benzene	0.000	0.000	0.000	0	0.960	U
Toluene	10.527	10.527	10.527	277	0.960	U
Ethylbenzene	14.171	5.697	5.657	26616	12.741	
m,p-Xylenes	14.381	5.917	5.867	4682	1.887	
o-Xylene	15.416	15.416	15.416	375	0.960	U
124-Trimethylbenzene	17.629	9.154	9.115	145480	75.980	
Naphthalene	20.787	20.787	20.787	1119	1.920	U

SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.514	2.400	5234	5.688	237.02	70-130

B25071795 - B25071795-001A

Batch ID: 201929



VPH ALIPHATICS FLAME IONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-001A ;0729PE1 , \$HC-VPH-MA-S,, (0.96,20)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1B.0045.RAW
Date & Time Acquired: 7/30/2025 12:11:09 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-1B%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPHB.CAL
Sample Weight: 50 Dilution: 19.2 S.A.: 0.96

Mean RF for C5 to C8 Aliphatic Hydrocarbons: 439.11835
Mean RF for C9 to C12 Aliphatic Hydrocarbons: 353.54797
Mean RF for all calibrated compounds: 543.5327
Rt range for Gasoline Range Organics: 4.2916737 to 16.777027
Rt range for C5 to C8 Aliphatic Hydrocarbons: 3.301616 to 13.532562
Rt range for C9 to C12 Aliphatic Hydrocarbons: 13.582562 to 20.757952

SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC
**TFT	8.521	2.400	14863	11.534	480.60

- 0 jmp 8/4/25

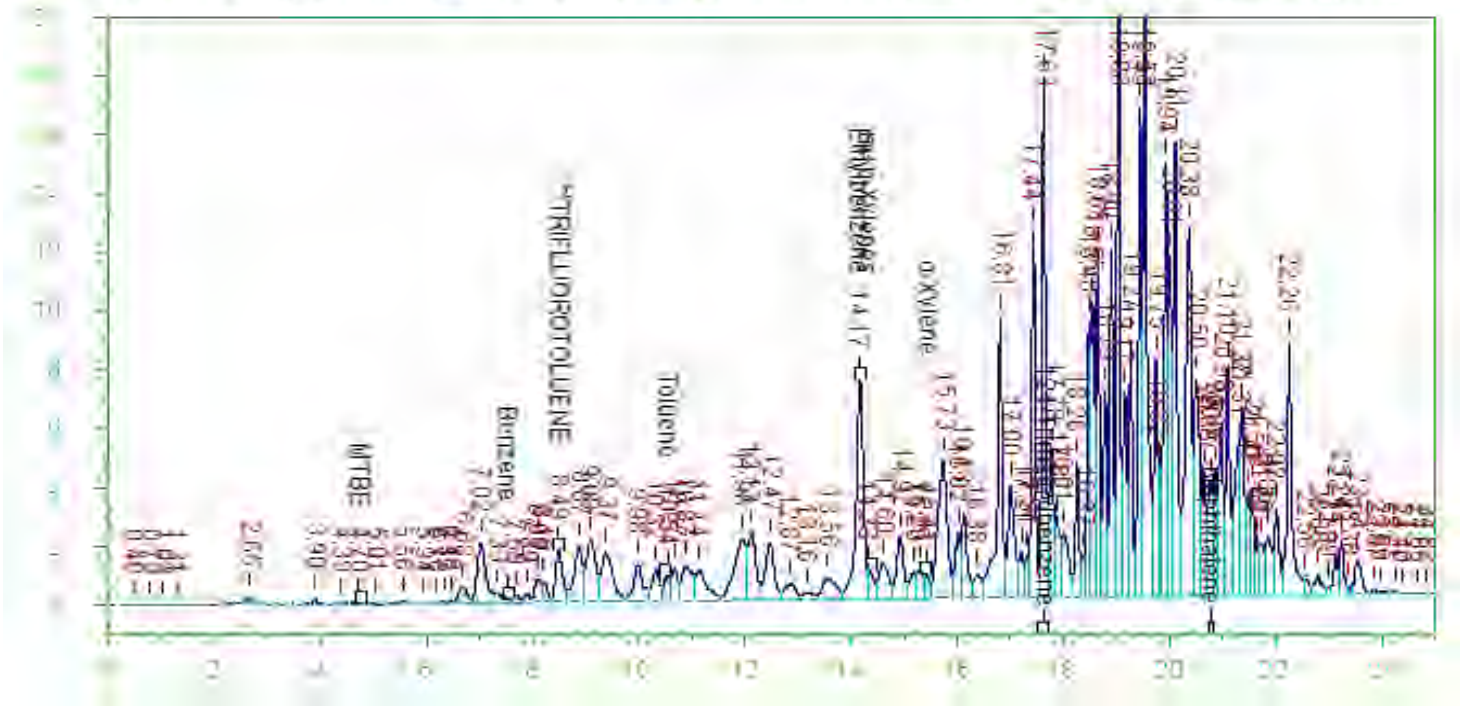
GRO Area: 517175.4 GRO Amount: 365.37888
TPH Area: 1353132 TPH Amount: 955.9732

Aliphatic Hydrocarbon Areas and Quantitations uncorrected for Aromatics:
C5-C8 Area: 328634.2 C5-C8 Amount: 287.38388
C9-C12 Area: 921229.06 C9-C12 Amount: 1000.577

B25071795 - B25071795-002A

Batch ID: 201929

G:\Org\PE1\DATA\PE1072925_B\0729PE1.0017.RAW B25071795-002A_0729PE1_ \$HC-VPH-MA-S,,(0.92,5)



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-002A ;0729PE1 , \$HC-VPH-MA-S,,(0.92,5)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1.0017.RAW
Date & Time Acquired: 7/29/2025 5:57:57 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-2%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPH.CAL
Sample Weight: 50 Dilution: 4.6 S.A.: 0.92

Mean RF for C9 to C10 Aromatic Hydrocarbons: 759.87964

Rt range for C9 to C10 Aromatics: 15.520881 to 20.753365

Aromatic Hydrocarbon Range Area and Quantitation:

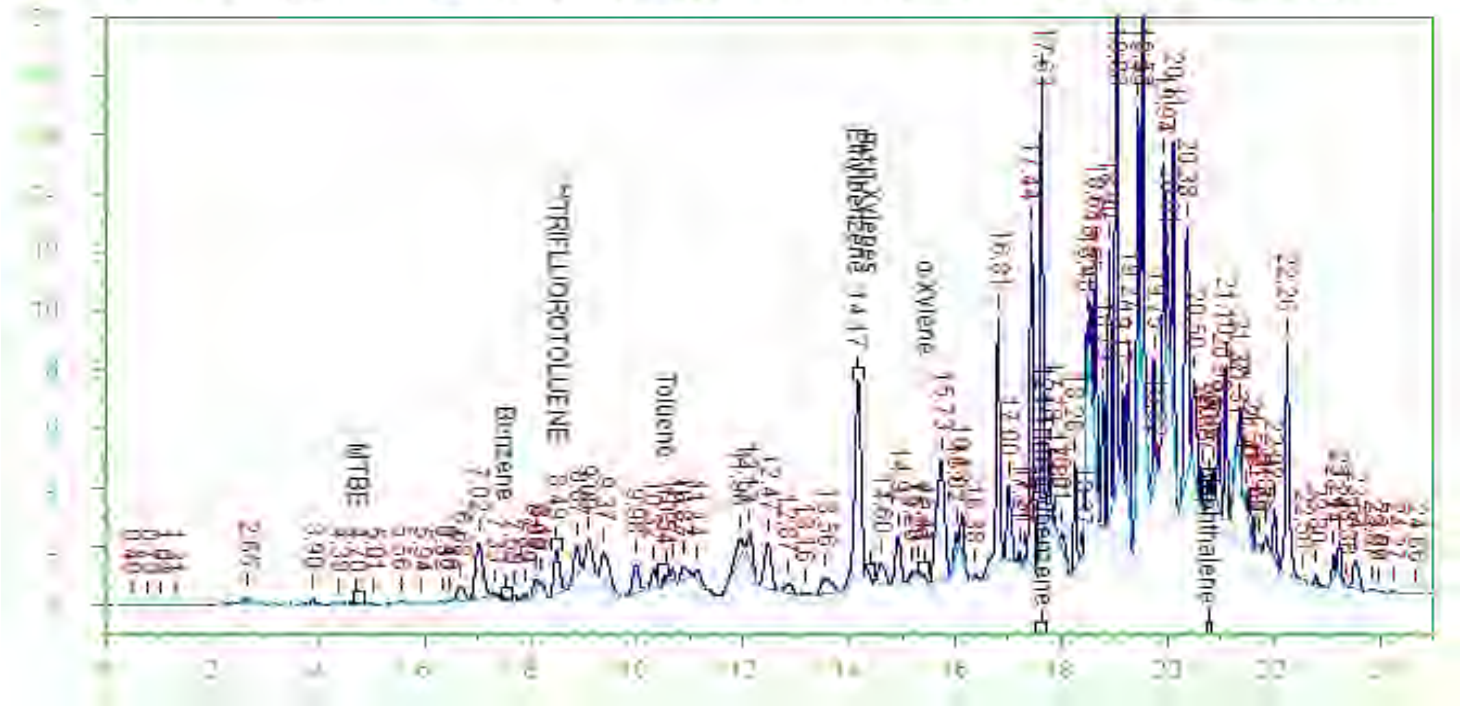
C9-C10 Aromatics Area: 1480238 C9-C10 Aromatics Amount: 179.21507

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	4.703	4.703	4.703	272	0.460	U
Benzene	0.000	0.000	0.000	0	0.230	U
Toluene	10.538	-2.028	-2.052	6511	0.605	< 0.80 jmp 8/4/25
Ethylbenzene	14.171	-5.697	-5.685	74850	8.585	
m+p-Xylenes	14.329	-5.917	-5.843	6465	0.624	< 0.80 jmp 8/4/25
o-Xylene	15.413	-6.945	-6.928	5420	0.636	< 0.80 jmp 8/4/25
124-Trimethylbenzene	17.629	-9.154	-9.143	84292	10.547	
Naphthalene	20.769	-12.317	-12.283	22962	3.593	No jmp 8/4/25
SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.486	2.300	16903	4.401	191.36	70-130

B25071795 - B25071795-002A

Batch ID: 201929

G:\Org\PE1\DATA\PE1072925_B\0729PE1.0017.RAW B25071795-002A\0729PE1_ \$HC-VPH-MA-S,,(0.92,5)



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-002A ;0729PE1 , \$HC-VPH-MA-S,,(0.92,5)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1.0017.RAW
Date & Time Acquired: 7/29/2025 5:57:57 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-2N%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPH.CAL
Sample Weight: 50 Dilution: 4.6 S.A.: 0.92

Mean RF for C9 to C10 Aromatic Hydrocarbons: 759.87964

Rt range for C9 to C10 Aromatics: 15.520881 to 20.753365

Aromatic Hydrocarbon Range Area and Quantitation:

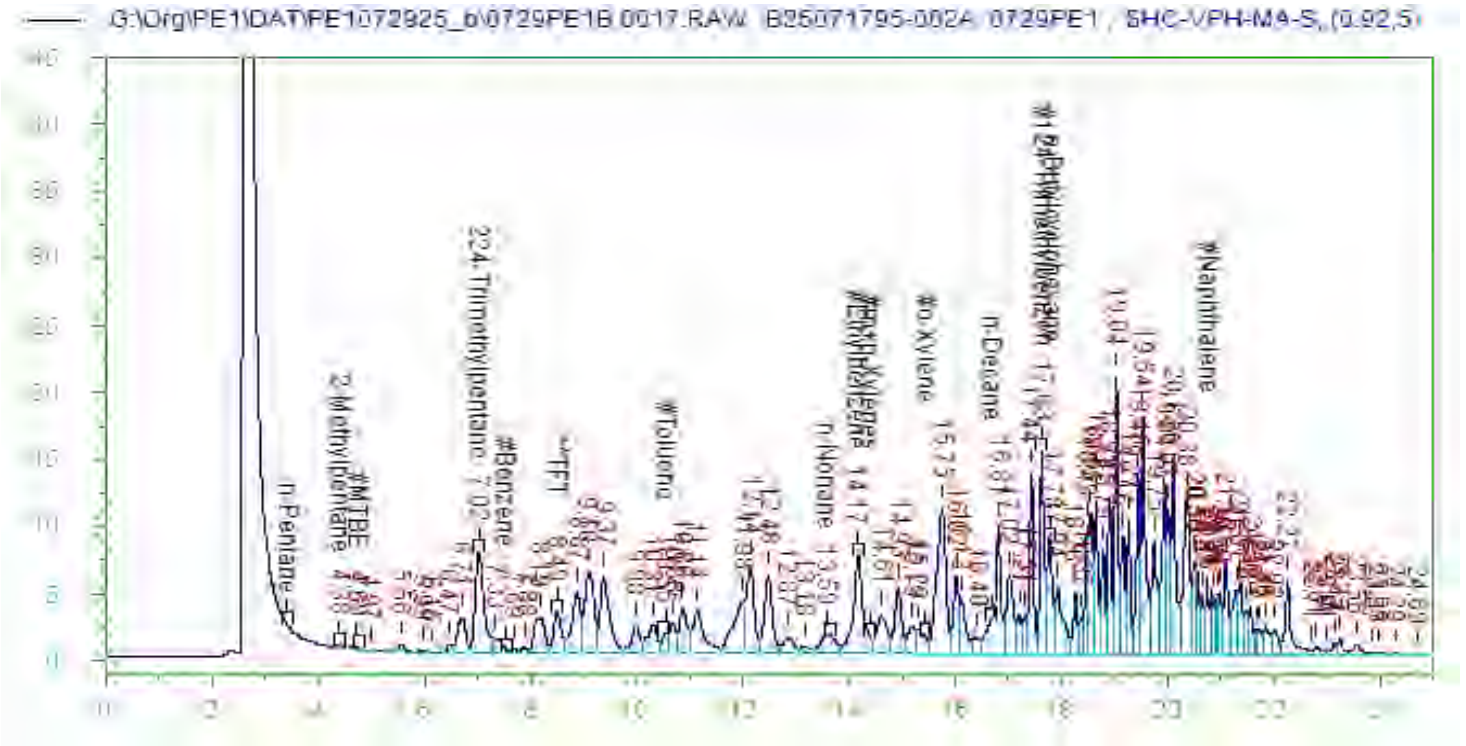
C9-C10 Aromatics Area: 647466.7 C9-C10 Aromatics Amount: 78.38996

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	4.703	4.703	4.703	272	0.460	U
Benzene	0.000	0.000	0.000	0	0.230	U
Toluene	10.538	10.538	10.538	836	0.230	U
Ethylbenzene	14.171	5.697	5.685	55619	6.379	
m,p-Xylenes	0.000	0.000	0.000	0	0.460	U
o-Xylene	15.413	15.413	15.413	504	0.230	U
1,2,4-Trimethylbenzene	17.629	-9.154	-9.143	62246	7.789	
Naphthalene	20.769	-12.317	-12.283	2527	0.395	< 0.58 jmp 8/4/25

SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.486	2.300	11435	2.977	129.45	70-130

B25071795 - B25071795-002A

Batch ID: 201929



VPH ALIPHATICS FLAME IONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-002A ;0729PE1 , \$HC-VPH-MA-S,,(0.92,5)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1B.0017.RAW
Date & Time Acquired: 7/29/2025 5:57:57 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-2B%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPHB.CAL
Sample Weight: 50 Dilution: 4.6 S.A.: 0.92

Mean RF for C5 to C8 Aliphatic Hydrocarbons: 439.11835
Mean RF for C9 to C12 Aliphatic Hydrocarbons: 353.54797
Mean RF for all calibrated compounds: 543.5327
Rt range for Gasoline Range Organics: 4.2916737 to 16.777027
Rt range for C5 to C8 Aliphatic Hydrocarbons: 3.301616 to 13.532562
Rt range for C9 to C12 Aliphatic Hydrocarbons: 13.582562 to 20.757952

SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC
**TFT	8.494	2.300	31851	5.922	257.47

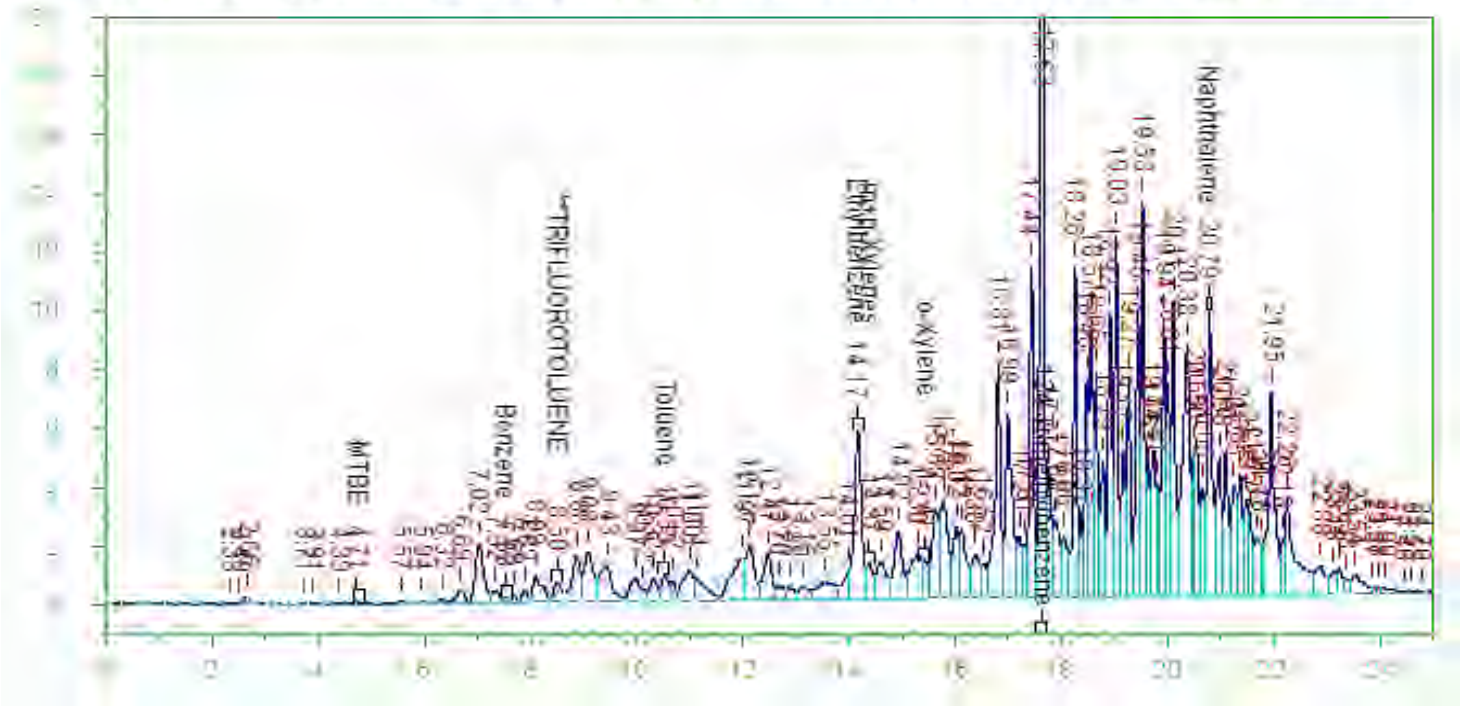
GRO Area: 1226976.2 GRO Amount: 207.68173
TPH Area: 3049175.8 TPH Amount: 516.1128

Aliphatic Hydrocarbon Areas and Quantitations uncorrected for Aromatics:
C5-C8 Area: 761707.5 C5-C8 Amount: 159.58588
C9-C12 Area: 1962714.1 C9-C12 Amount: 510.73605

B25071795 - B25071795-003A

Batch ID: 201929

G:\Org\PE1\DATA\PE1072925_B\0729PE1.0049.RAW B25071795-003A_0729PE1 SHC-VPH-MA-S,,(1.14,20)



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-003A ;0729PE1 , \$HC-VPH-MA-S,,(1.14,20)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1.0049.RAW
Date & Time Acquired: 7/30/2025 2:29:25 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-3%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPH.CAL
Sample Weight: 50 Dilution: 22.8 S.A.: 1.14

Mean RF for C9 to C10 Aromatic Hydrocarbons: 759.87964

Rt range for C9 to C10 Aromatics: 15.520881 to 20.753365

Aromatic Hydrocarbon Range Area and Quantitation:

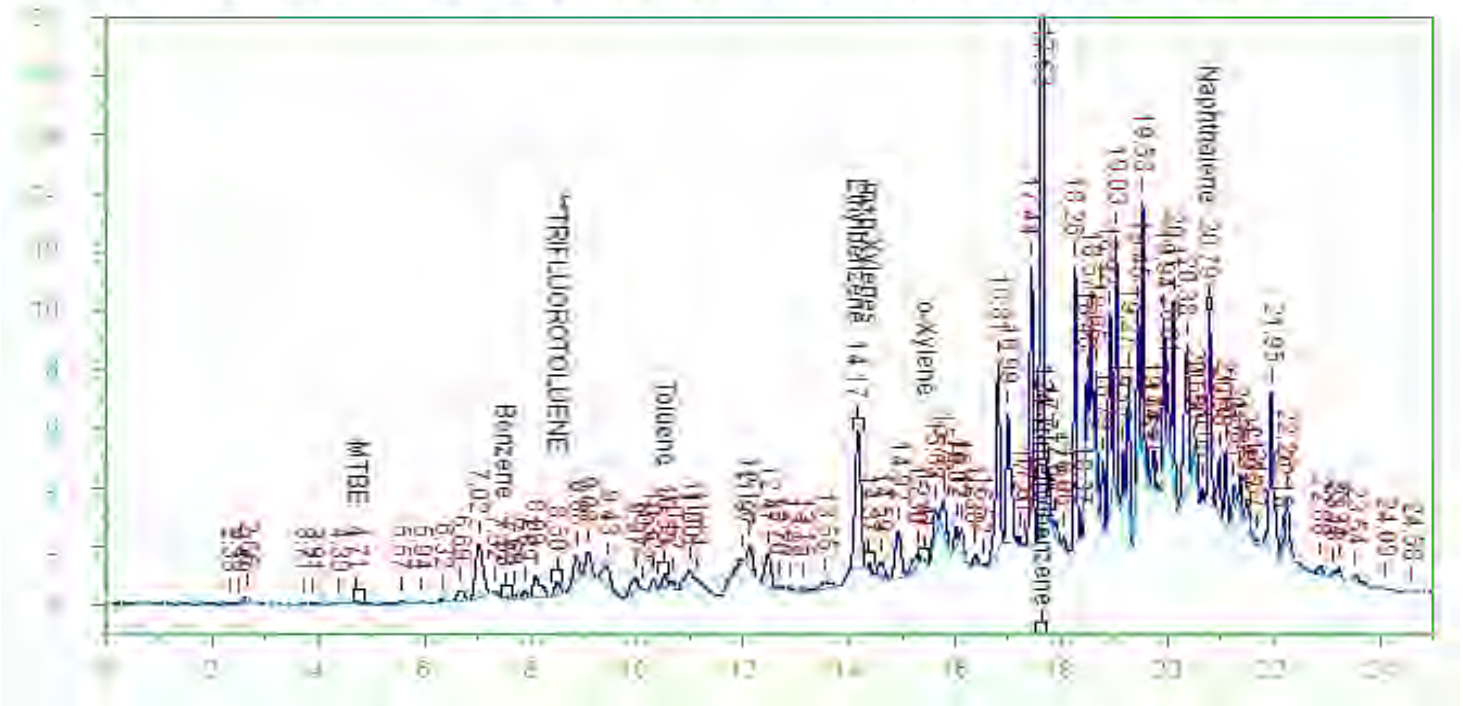
C9-C10 Aromatics Area: 1394399.2 C9-C10 Aromatics Amount: 836.77203

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	4.707	4.707	4.707	581	2.280	U
Benzene	7.529	0.932	0.969	1475	0.642	< 1.3 jmp 8/4/25
Toluene	10.530	-2.028	-2.032	8385	3.859	< 4.5 jmp 8/4/25
Ethylbenzene	14.170	-5.697	-5.671	55750	31.692	
m+p-Xylenes	14.373	-5.917	-5.875	9288	4.446	< 5.5 jmp 8/4/25
o-Xylene	15.411	-6.945	-6.912	7299	4.242	< 5.0 jmp 8/4/25
124-Trimethylbenzene	17.629	-9.154	-9.130	197259	122.340	
Naphthalene	20.792	-12.317	-12.293	61266	47.522	No jmp 8/4/25
SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.499	2.850	7483	9.658	338.87	70-130 0 jmp 8/4/25

B25071795 - B25071795-003A

Batch ID: 201929

G:\Org\PE1\DATA\PE1072925_B\0729PE1.0049.RAW B25071795-003A\0729PE1.SHC-VPH-MA-S,(1.14,20)



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-003A ;0729PE1 , \$HC-VPH-MA-S,,(1.14,20)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1.0049.RAW
Date & Time Acquired: 7/30/2025 2:29:25 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-3N%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPH.CAL
Sample Weight: 50 Dilution: 22.8 S.A.: 1.14

Mean RF for C9 to C10 Aromatic Hydrocarbons: 759.87964

Rt range for C9 to C10 Aromatics: 15.520881 to 20.753365

Aromatic Hydrocarbon Range Area and Quantitation:

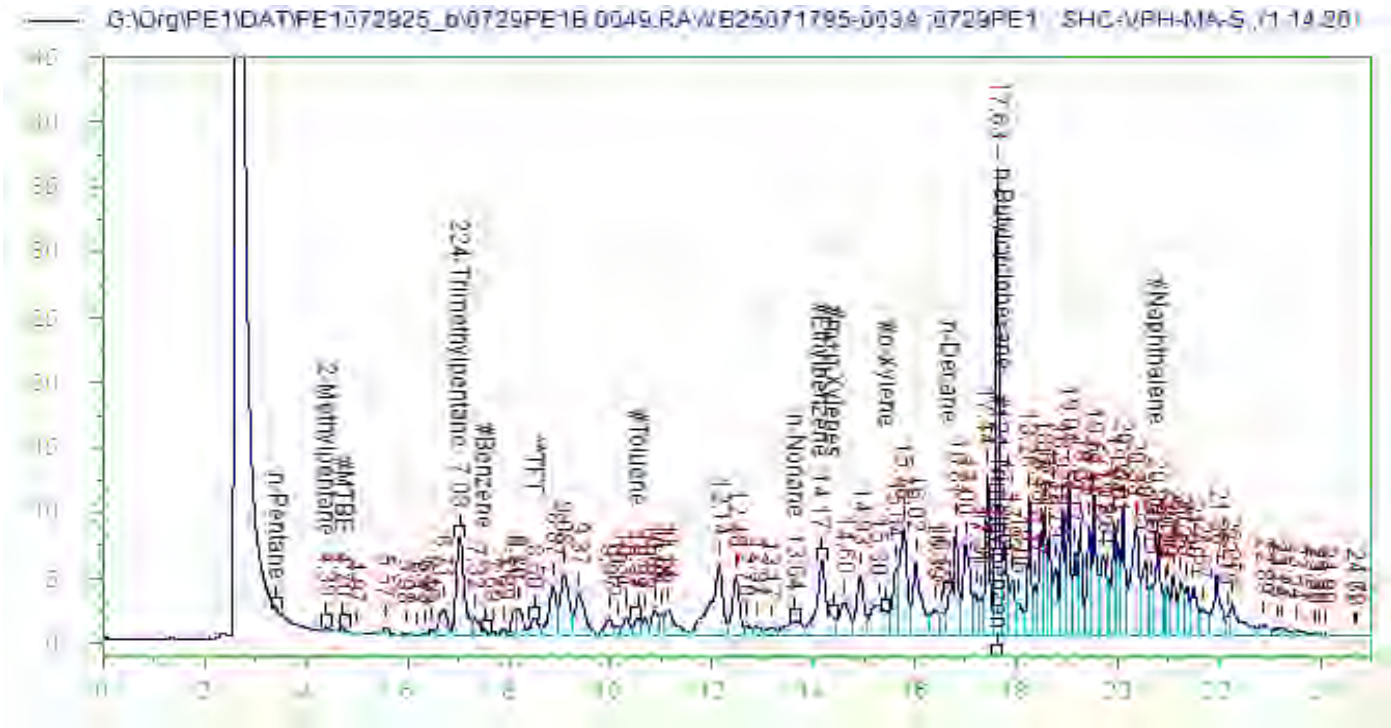
C9-C10 Aromatics Area: 568230.5 C9-C10 Aromatics Amount: 340.9923

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	4.707	4.707	4.707	520	2.280	U
Benzene	7.529	7.529	7.529	261	1.140	U
Toluene	10.530	2.028	2.032	2386	1.098	U
Ethylbenzene	14.170	5.697	5.671	35869	20.390	U
m,p-Xylenes	14.373	14.373	14.373	931	2.280	U
o-Xylene	15.411	15.411	15.411	119	1.140	U
124-Trimethylbenzene	17.629	-9.154	-9.130	167506	103.887	U
Naphthalene	20.792	-12.317	-12.293	25161	19.517	U

SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.499	2.850	3883	5.012	175.86	70-130

B25071795 - B25071795-003A

Batch ID: 201929



VPH ALIPHATICS FLAME IONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-003A ;0729PE1 , \$HC-VPH-MA-S,, (1.14,20)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1B.0049.RAW
Date & Time Acquired: 7/30/2025 2:29:25 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-3B%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPHB.CAL
Sample Weight: 50 Dilution: 22.8 S.A.: 1.14

Mean RF for C5 to C8 Aliphatic Hydrocarbons: 439.11835
Mean RF for C9 to C12 Aliphatic Hydrocarbons: 353.54797
Mean RF for all calibrated compounds: 543.5327
Rt range for Gasoline Range Organics: 4.2916737 to 16.777027
Rt range for C5 to C8 Aliphatic Hydrocarbons: 3.301616 to 13.532562
Rt range for C9 to C12 Aliphatic Hydrocarbons: 13.582562 to 20.757952

SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC
**TFT	8.505	2.850	15009	13.831	485.30

- 0 jmp 8/4/25

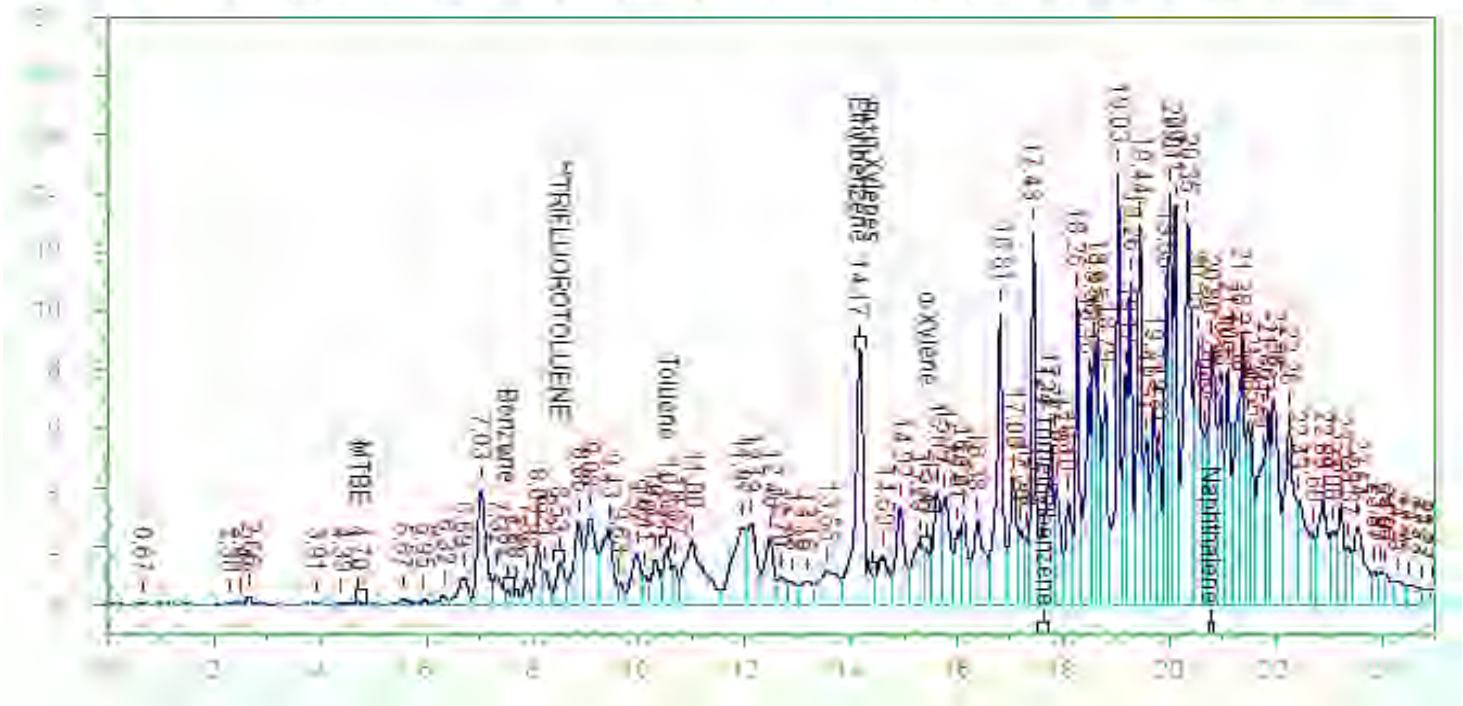
GRO Area: 1075646.2 GRO Amount: 902.41974
TPH Area: 2835033.5 TPH Amount: 2378.468

Aliphatic Hydrocarbon Areas and Quantitations uncorrected for Aromatics:
C5-C8 Area: 599335.75 C5-C8 Amount: 622.3769
C9-C12 Area: 1882053.8 C9-C12 Amount: 2427.44

B25071795 - B25071795-004A

Batch ID: 201929

G:\Org\PE1\DATA\PE1072925_B\0729PE1.0051.RAW B25071795-004A_0729PE1 \$HC-VPH-MA-S,,(1.11,20)



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-004A ;0729PE1 , \$HC-VPH-MA-S,,(1.11,20)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1.0051.RAW
Date & Time Acquired: 7/30/2025 3:38:21 PM
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Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPH.CAL
Sample Weight: 50 Dilution: 22.2 S.A.: 1.11

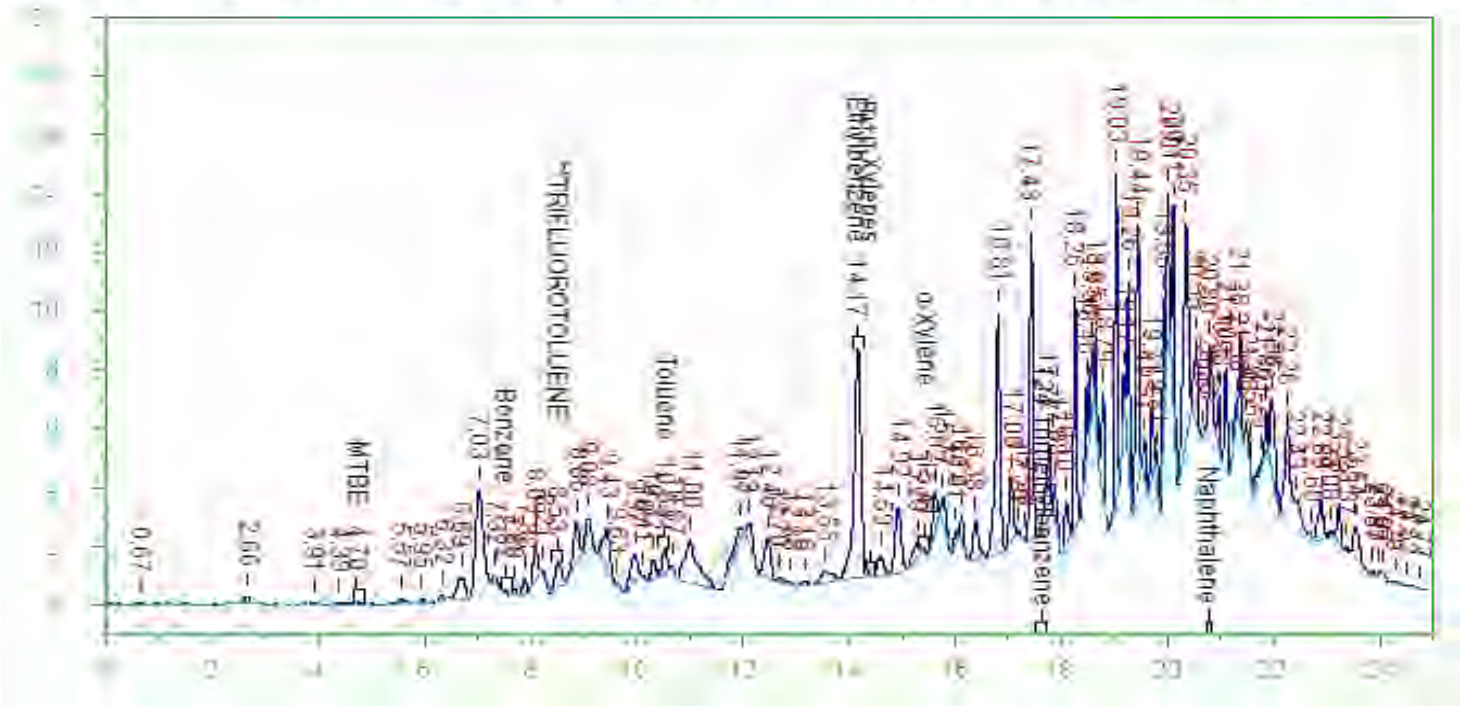
Mean RF for C9 to C10 Aromatic Hydrocarbons: 759.87964
Rt range for C9 to C10 Aromatics: 15.520881 to 20.753365
Aromatic Hydrocarbon Range Area and Quantitation:
C9-C10 Aromatics Area: 1542602 C9-C10 Aromatics Amount: 901.3471

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	4.701	4.701	4.701	800	2.220	U
Benzene	7.518	0.932	1.008	3046	1.292	< 2.0 jmp 8/4/25
Toluene	10.528	-2.028	-2.002	18388	8.239	< 11 jmp 8/4/25
Ethylbenzene	14.168	-5.697	-5.642	106219	58.793	
m+p-Xylenes	0.000	0.000	0.000	0	2.220	U
o-Xylene	15.411	-6.945	-6.885	12956	7.332	< 10 jmp 8/4/25
124-Trimethylbenzene	0.000	0.000	0.000	0	1.110	U
Naphthalene	20.800	-12.317	-12.274	72238	54.558	No jmp 8/4/25
SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.526	2.775	16420	20.634	743.55	70-130 0 jmp 8/4/25

B25071795 - B25071795-004A

Batch ID: 201929

G:\Org\PE1\DATA\PE1072925_B\0729PE1.0051.RAW B25071795-004A_0729PE1.SHC-VPH-MA-S,,(1.11,20)



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-004A ;0729PE1 , \$HC-VPH-MA-S,,(1.11,20)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1.0051.RAW
Date & Time Acquired: 7/30/2025 3:38:21 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-4N%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPH.CAL
Sample Weight: 50 Dilution: 22.2 S.A.: 1.11

Mean RF for C9 to C10 Aromatic Hydrocarbons: 759.87964

Rt range for C9 to C10 Aromatics: 15.520881 to 20.753365

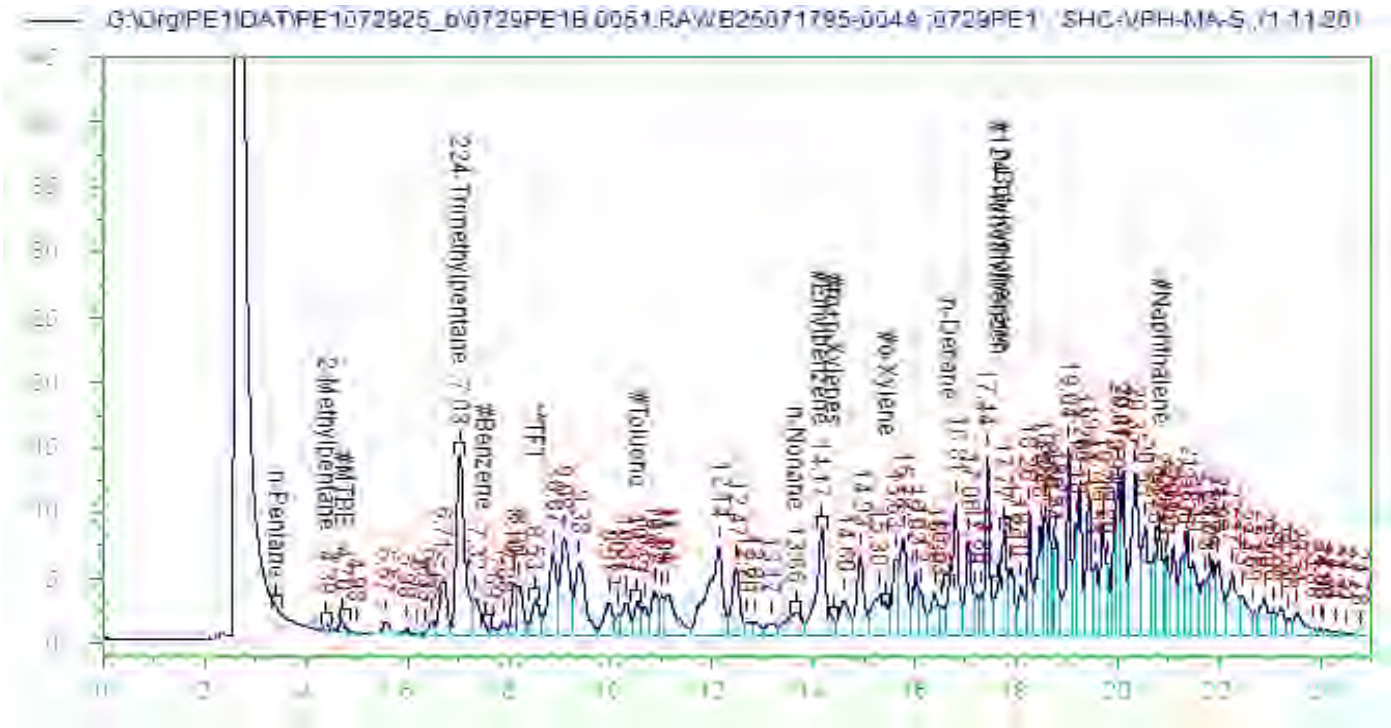
Aromatic Hydrocarbon Range Area and Quantitation:

C9-C10 Aromatics Area: 459037.6 C9-C10 Aromatics Amount: 268.2171

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	4.701	4.701	4.701	828	2.220	U
Benzene	7.518	7.518	7.518	337	1.110	U
Toluene	10.528	2.028	2.002	5063	2.269	
Ethylbenzene	14.168	5.697	5.642	72945	40.375	
m,p Xylenes	0.000	0.000	0.000	0	2.220	U
o-Xylene	15.411	15.411	15.411	480	1.110	U
124-Trimethylbenzene	0.000	0.000	0.000	0	1.110	U
Naphthalene	20.800	-12.317	-12.274	13810	10.430	< 14 jmp 8/4/25
SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.526	2.775	6905	8.677	312.68	70-130

B25071795 - B25071795-004A

Batch ID: 201929



VPH ALIPHATICS FLAME IONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-004A ;0729PE1 , \$HC-VPH-MA-S,, (1.11,20)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1B.0051.RAW
Date & Time Acquired: 7/30/2025 3:38:21 PM
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Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPHB.CAL
Sample Weight: 50 Dilution: 22.2 S.A.: 1.11

Mean RF for C5 to C8 Aliphatic Hydrocarbons: 439.11835
Mean RF for C9 to C12 Aliphatic Hydrocarbons: 353.54797
Mean RF for all calibrated compounds: 543.5327
Rt range for Gasoline Range Organics: 4.2916737 to 16.777027
Rt range for C5 to C8 Aliphatic Hydrocarbons: 3.301616 to 13.532562
Rt range for C9 to C12 Aliphatic Hydrocarbons: 13.582562 to 20.757952

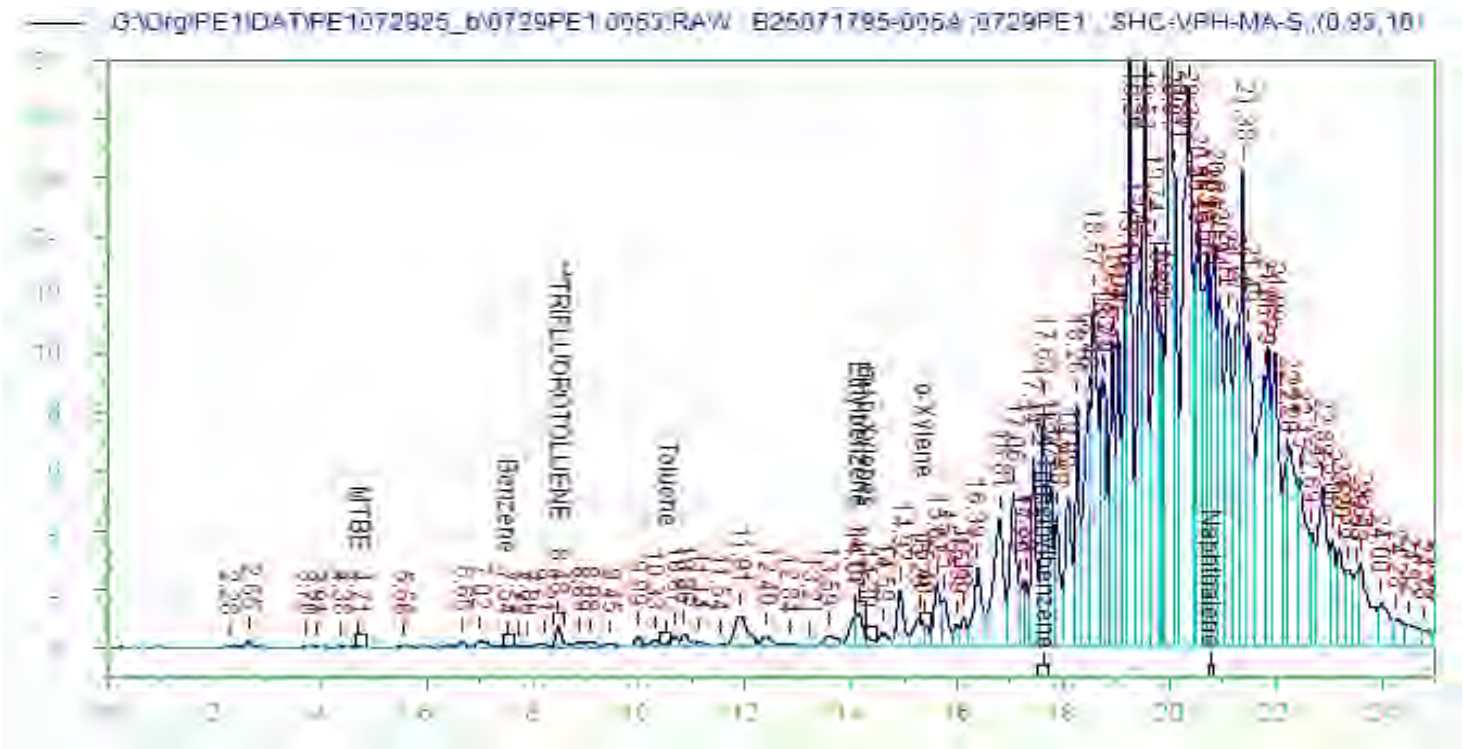
SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC
**TFT	8.526	2.775	30898	27.724	999.06

GRO Area: 1579817.9 GRO Amount: 1290.5188
TPH Area: 3737386.8 TPH Amount: 3052.9897

Aliphatic Hydrocarbon Areas and Quantitations uncorrected for Aromatics:
C5-C8 Area: 1032746.7 C5-C8 Amount: 1044.2277
C9-C12 Area: 2054552.9 C9-C12 Amount: 2580.1917

B25071795 - B25071795-005A

Batch ID: 201929



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-005A ;0729PE1 , \$HC-VPH-MA-S,,(0.93,10)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1.0053.RAW
Date & Time Acquired: 7/30/2025 4:47:24 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-5%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPH.CAL
Sample Weight: 50 Dilution: 9.3 S.A.: 0.93

Mean RF for C9 to C10 Aromatic Hydrocarbons: 759.87964

Rt range for C9 to C10 Aromatics: 15.520881 to 20.753365

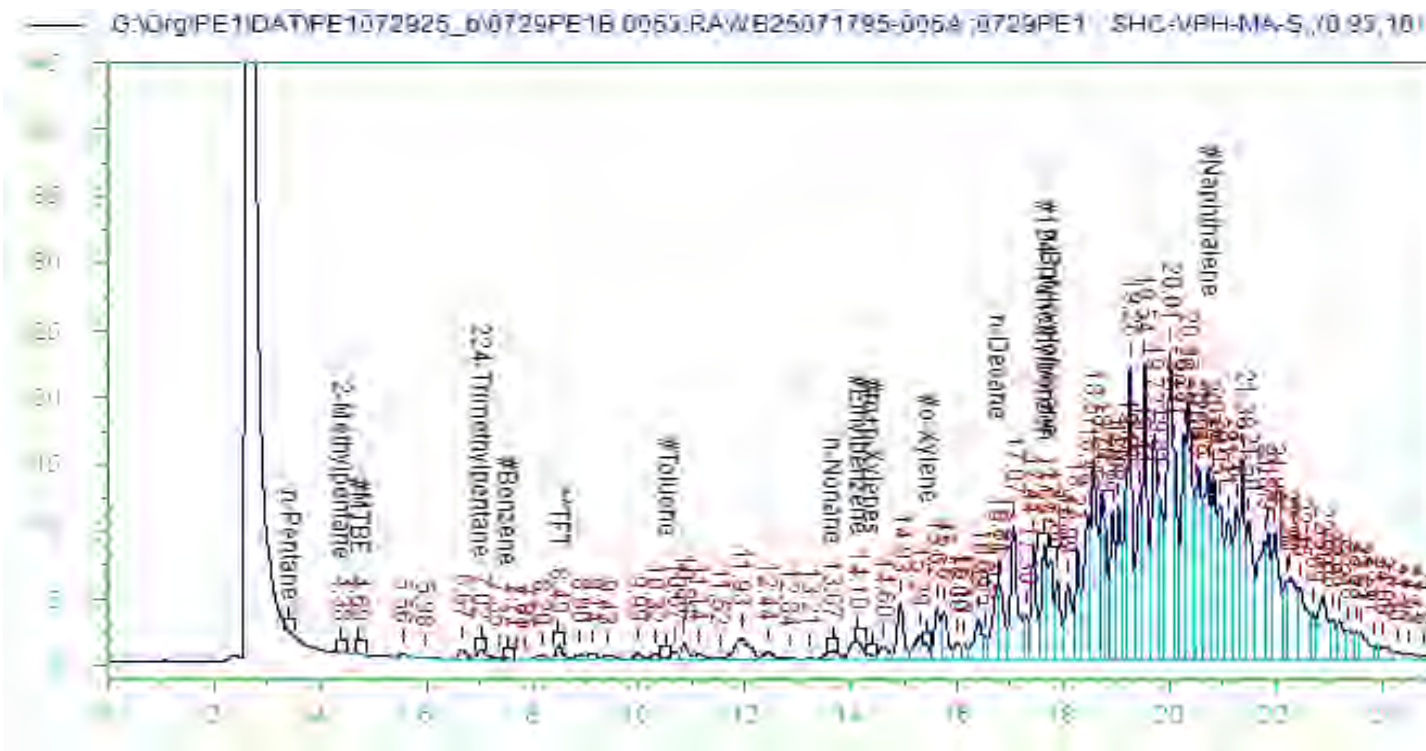
Aromatic Hydrocarbon Range Area and Quantitation:

C9-C10 Aromatics Area: 2137042 C9-C10 Aromatics Amount: 523.09576

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	4.709	4.709	4.709	291	0.930	U
Benzene	7.541	7.541	7.541	328	0.465	U
Toluene	0.000	0.000	0.000	0	0.465	U
Ethylbenzene	14.148	-5.697	-5.667	10924	2.533	< 3.1 jmp 8/4/25
m+p-Xylenes	14.299	-5.917	-5.818	2041	0.398	< 0.56 jmp 8/4/25
o-Xylene	15.404	-6.945	-6.923	4638	1.100	< 1.5 jmp 8/4/25
124-Trimethylbenzene	17.631	-9.154	-9.150	53741	13.595	
Naphthalene	0.000	0.000	0.000	0	0.930	U
SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.481	2.325	6197	3.262	140.32	70-130

B25071795 - B25071795-005A

Batch ID: 201929



VPH ALIPHATICS FLAME IONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-005A ;0729PE1 , \$HC-VPH-MA-S,,(0.93,10)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1B.0053.RAW
Date & Time Acquired: 7/30/2025 4:47:24 PM
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Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPHB.CAL
Sample Weight: 50 Dilution: 9.3 S.A.: 0.93

Mean RF for C5 to C8 Aliphatic Hydrocarbons: 439.11835
Mean RF for C9 to C12 Aliphatic Hydrocarbons: 353.54797
Mean RF for all calibrated compounds: 543.5327
Rt range for Gasoline Range Organics: 4.2916737 to 16.777027
Rt range for C5 to C8 Aliphatic Hydrocarbons: 3.301616 to 13.532562
Rt range for C9 to C12 Aliphatic Hydrocarbons: 13.582562 to 20.757952

SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC
**TFT	8.487	2.325	10611	3.989	171.56

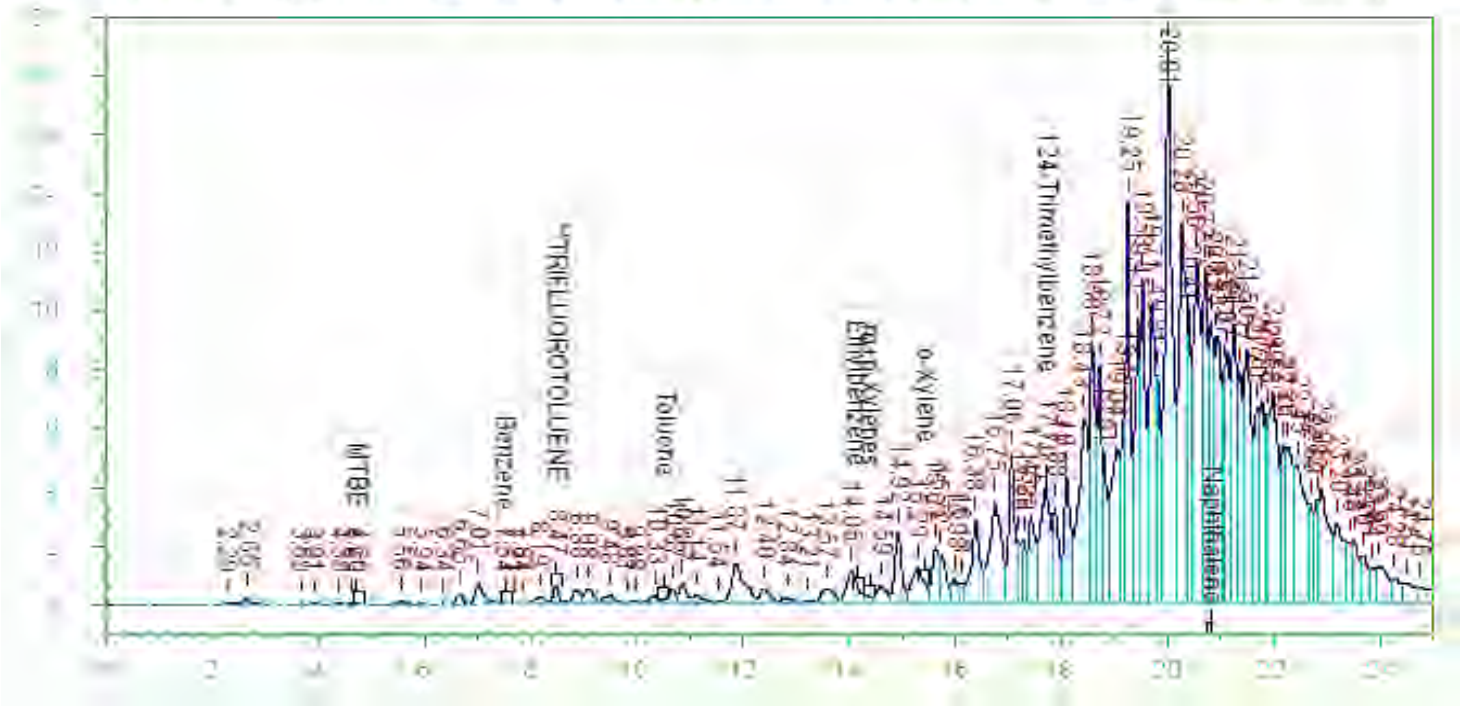
GRO Area: 391559.3 GRO Amount: 133.99384
TPH Area: 3783192.5 TPH Amount: 1294.6301

Aliphatic Hydrocarbon Areas and Quantitations uncorrected for Aromatics:
C5-C8 Area: 116522.39 C5-C8 Amount: 49.35609
C9-C12 Area: 2539138.8 C9-C12 Amount: 1335.8296

B25071795 - B25071795-006A

Batch ID: 201929

G:\Org\PE1\DATA\PE1072925_B\0729PE1.0055.RAW B25071795-006A_0729PE1.SHC-VPH-MA-S,,(0.87,10)



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-006A ;0729PE1 , \$HC-VPH-MA-S,,(0.87,10)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1.0055.RAW
Date & Time Acquired: 7/30/2025 5:56:32 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-6%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPH.CAL
Sample Weight: 50 Dilution: 8.7 S.A.: 0.87

Mean RF for C9 to C10 Aromatic Hydrocarbons: 759.87964

Rt range for C9 to C10 Aromatics: 15.520881 to 20.753365

Aromatic Hydrocarbon Range Area and Quantitation:

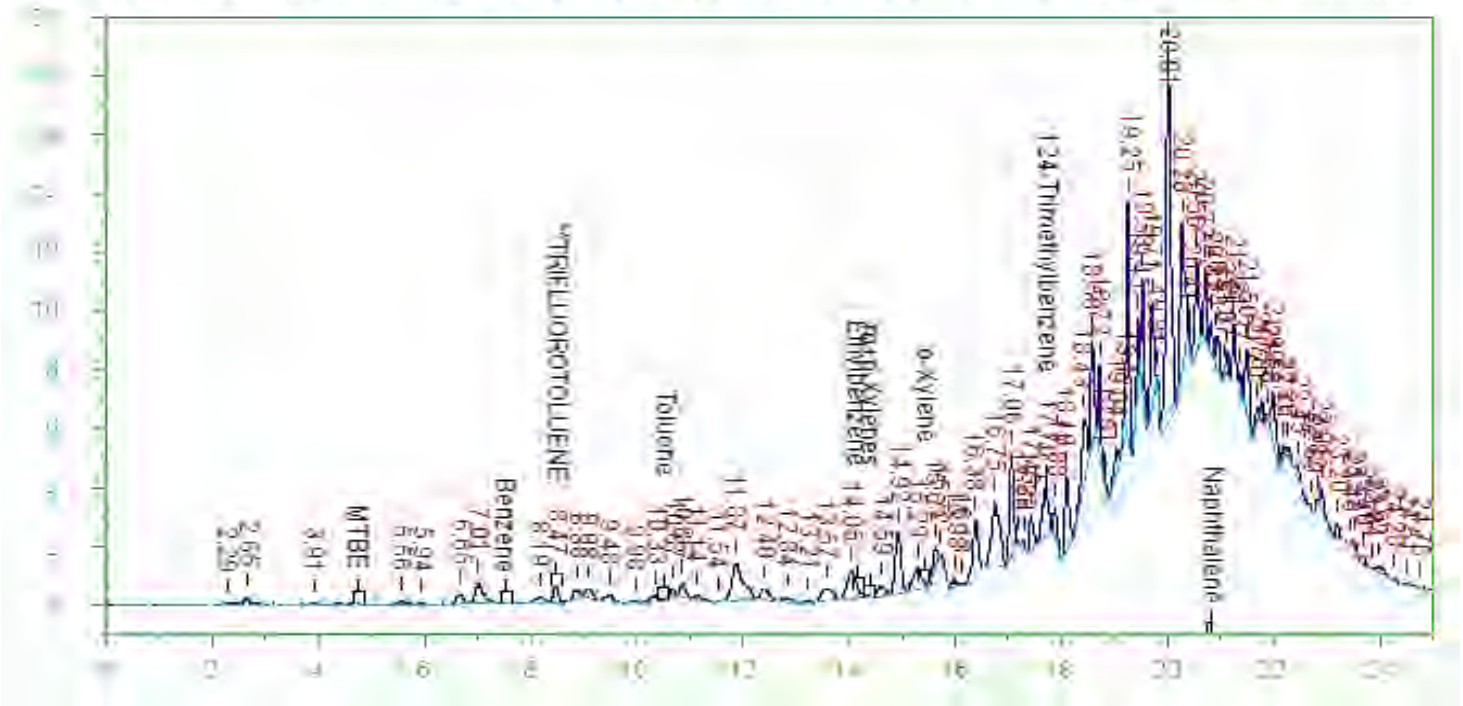
C9-C10 Aromatics Area: 1513946.6 C9-C10 Aromatics Amount: 346.66898

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	4.699	4.699	4.699	111	0.870	U
Benzene	7.541	7.541	7.541	147	0.435	U
Toluene	0.000	0.000	0.000	0	0.435	U
Ethylbenzene	0.000	0.000	0.000	0	0.435	U
m+p-Xylenes	0.000	0.000	0.000	0	0.870	U
o-Xylene	0.000	0.000	0.000	0	0.435	U
124-Trimethylbenzene	17.702	-9.154	-9.230	50791	12.020	
Naphthalene	20.818	-12.317	-12.347	60179	17.812	No jmp 8/4/25
SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.472	2.175	4262	2.099	96.51	70-130

B25071795 - B25071795-006A

Batch ID: 201929

G:\Org\PE1\DATA\PE1072925_B\0729PE1.0055.RAW B25071795-006A_0729PE1.SHC-VPH-MA-S,,(0.87,10)



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-006A ;0729PE1 , \$HC-VPH-MA-S,,(0.87,10)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1.0055.RAW
Date & Time Acquired: 7/30/2025 5:56:32 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-6N%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPH.CAL
Sample Weight: 50 Dilution: 8.7 S.A.: 0.87

Mean RF for C9 to C10 Aromatic Hydrocarbons: 759.87964

Rt range for C9 to C10 Aromatics: 15.520881 to 20.753365

Aromatic Hydrocarbon Range Area and Quantitation:

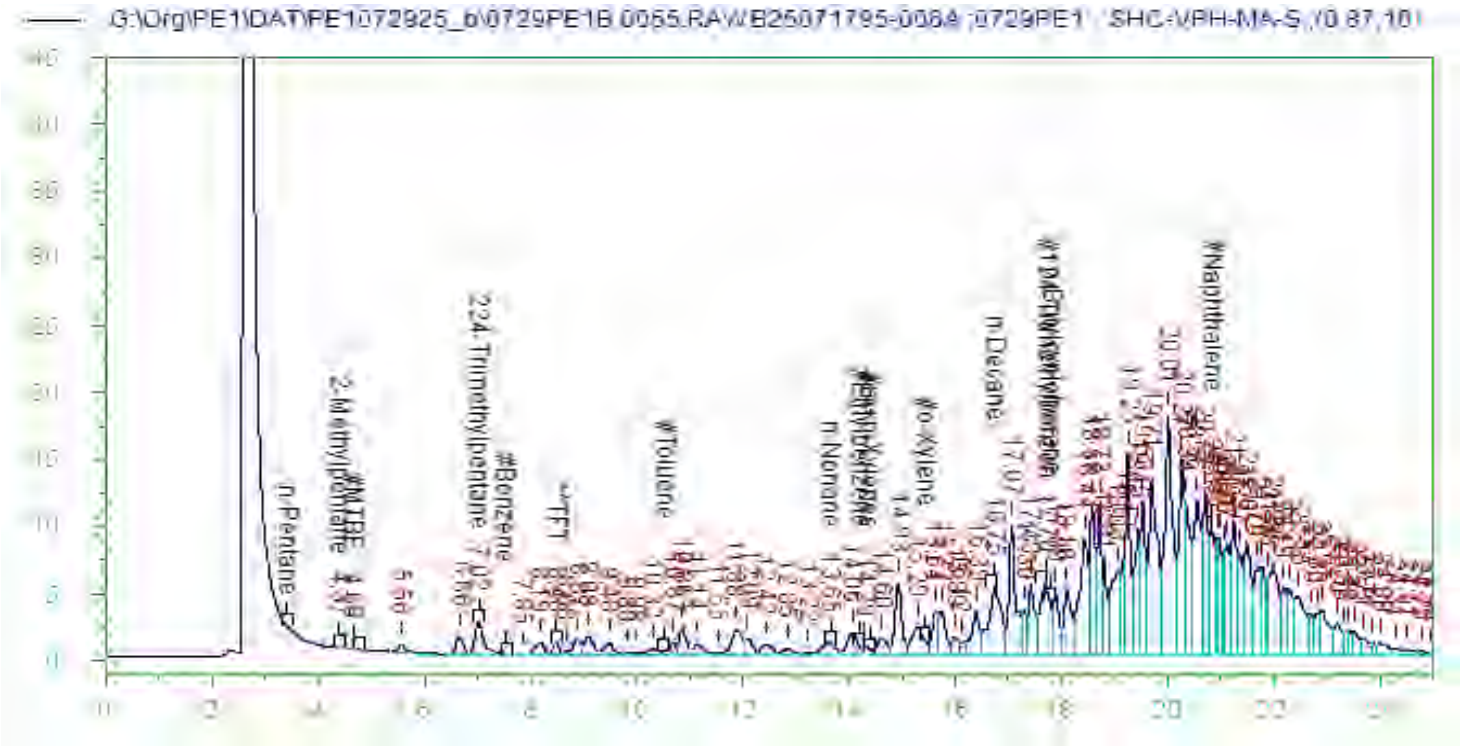
C9-C10 Aromatics Area: 348374.66 C9-C10 Aromatics Amount: 79.772095

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	0.000	0.000	0.000	0	0.870	U
Benzene	0.000	0.000	0.000	0	0.435	U
Toluene	0.000	0.000	0.000	0	0.435	U
Ethylbenzene	0.000	0.000	0.000	0	0.435	U
m,p-Xylenes	0.000	0.000	0.000	0	0.870	U
o-Xylene	0.000	0.000	0.000	0	0.435	U
1,2,4-Trimethylbenzene	17.702	-9.154	-9.230	13150	3.112	
Naphthalene	20.818	-12.317	-12.347	3401	1.007	< 1.5 jmp 8/4/25

SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.472	2.175	3509	1.728	79.45	70-130

B25071795 - B25071795-006A

Batch ID: 201929



VPH ALIPHATICS FLAME IONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-006A ;0729PE1 , \$HC-VPH-MA-S,,(0.87,10)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1B.0055.RAW
Date & Time Acquired: 7/30/2025 5:56:32 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-6B%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPHB.CAL
Sample Weight: 50 Dilution: 8.7 S.A.: 0.87

Mean RF for C5 to C8 Aliphatic Hydrocarbons: 439.11835
Mean RF for C9 to C12 Aliphatic Hydrocarbons: 353.54797
Mean RF for all calibrated compounds: 543.5327
Rt range for Gasoline Range Organics: 4.2916737 to 16.777027
Rt range for C5 to C8 Aliphatic Hydrocarbons: 3.301616 to 13.532562
Rt range for C9 to C12 Aliphatic Hydrocarbons: 13.582562 to 20.757952

SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	
**TFT	8.475	2.175	6640	2.335	107.36	-

GRO Area: 515819.97 GRO Amount: 165.12837
TPH Area: 3004058 TPH Amount: 961.68286

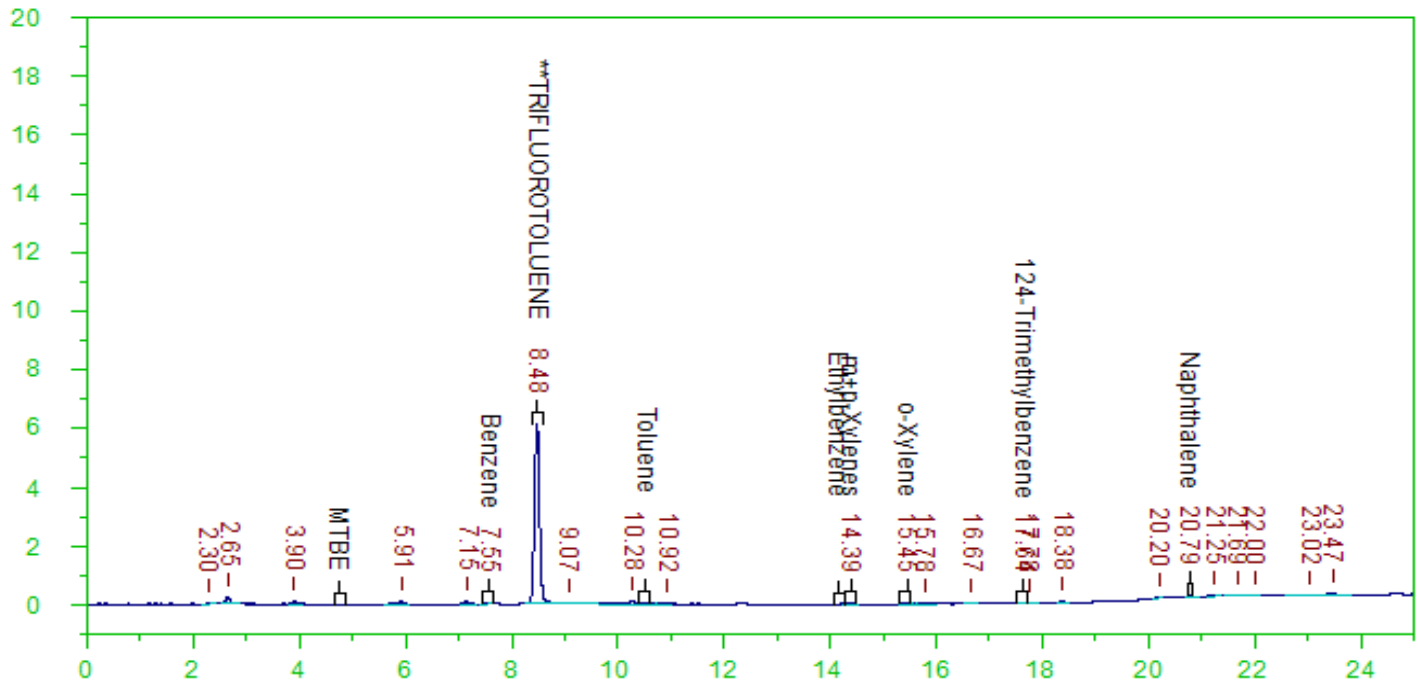
Aliphatic Hydrocarbon Areas and Quantitations uncorrected for Aromatics:
C5-C8 Area: 192627.03 C5-C8 Amount: 76.32818
C9-C12 Area: 1935447.5 C9-C12 Amount: 952.5379

B25071795 - B25071795-007A

Batch ID: 201929

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B25071795-007A ;0729PE1 , \$HC-VPH-MA-S,



VPH AROMATICS PHOTOIONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-007A ;0729PE1 , \$HC-VPH-MA-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1.0011.RAW
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Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716V1795-7%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPH.CAL
Sample Weight: 50 Dilution: 1 S.A.: 1

Mean RF for C9 to C10 Aromatic Hydrocarbons: 759.87964

Rt range for C9 to C10 Aromatics: 15.520881 to 20.753365

Aromatic Hydrocarbon Range Area and Quantitation:

C9-C10 Aromatics Area: 782.0453 C9-C10 Aromatics Amount: 0.020583399

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
MTBE	0.000	0.000	0.000	0	0.100	U
Benzene	7.555	7.555	7.555	108	0.050	U
Toluene	0.000	0.000	0.000	0	0.050	U
Ethylbenzene	0.000	0.000	0.000	0	0.050	U
m+p-Xylenes	14.389	14.389	14.389	109	0.100	U
o-Xylene	15.452	15.452	15.452	137	0.050	U
124-Trimethylbenzene	17.637	17.637	17.637	54	0.050	U
Naphthalene	20.790	20.790	20.790	176	0.100	U

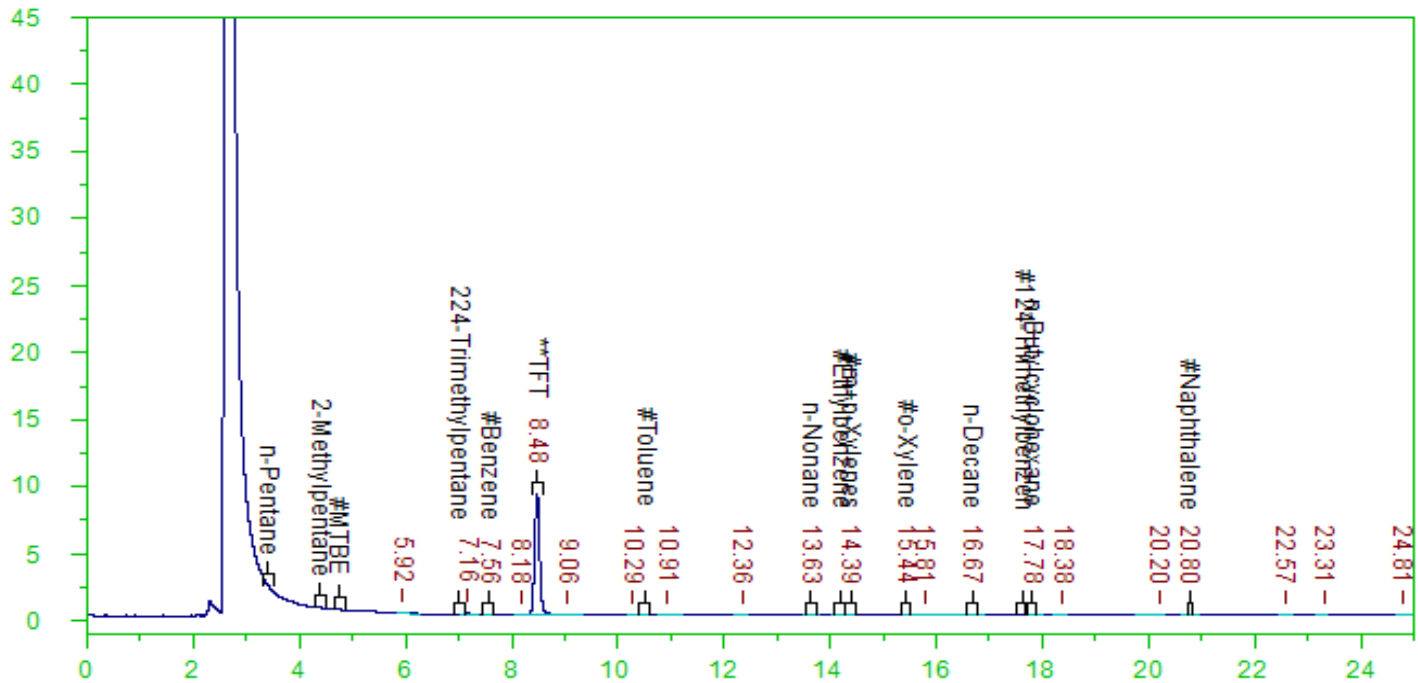
SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	QC LIMITS
**TRIFLUOROTOLUENE	8.475	2.500	41023	2.322	92.89	70-130

B25071795 - B25071795-007A

Batch ID: 201929

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B25071795-007A ;0729PE1 , \$HC-VPH-MA-S,



VPH ALIPHATICS FLAME IONIZATION DETECTOR CHROMATOGRAM REPORT

Sample Name: B25071795-007A ;0729PE1 , \$HC-VPH-MA-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\DAT\PE1072925_B\0729PE1B.0011.RAW
Date & Time Acquired: 7/29/2025 2:30:53 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\METHODS\250716VPHB%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\PE1\CALS\250716MA_VPHB.CAL
Sample Weight: 50 Dilution: 1 S.A.: 1

Mean RF for C5 to C8 Aliphatic Hydrocarbons: 439.11835
Mean RF for C9 to C12 Aliphatic Hydrocarbons: 353.54797
Mean RF for all calibrated compounds: 543.5327
Rt range for Gasoline Range Organics: 4.2916737 to 16.777027
Rt range for C5 to C8 Aliphatic Hydrocarbons: 3.301616 to 13.532562
Rt range for C9 to C12 Aliphatic Hydrocarbons: 13.582562 to 20.757952

SURROGATE COMPOUND	RT	ACTUAL	AREA	MEASURED	%REC	
**TFT	8.477	2.500	59753	2.415	96.60	-

GRO Area: 4326.699 GRO Amount: 0.15920658
TPH Area: 5164.5195 TPH Amount: 0.19003528

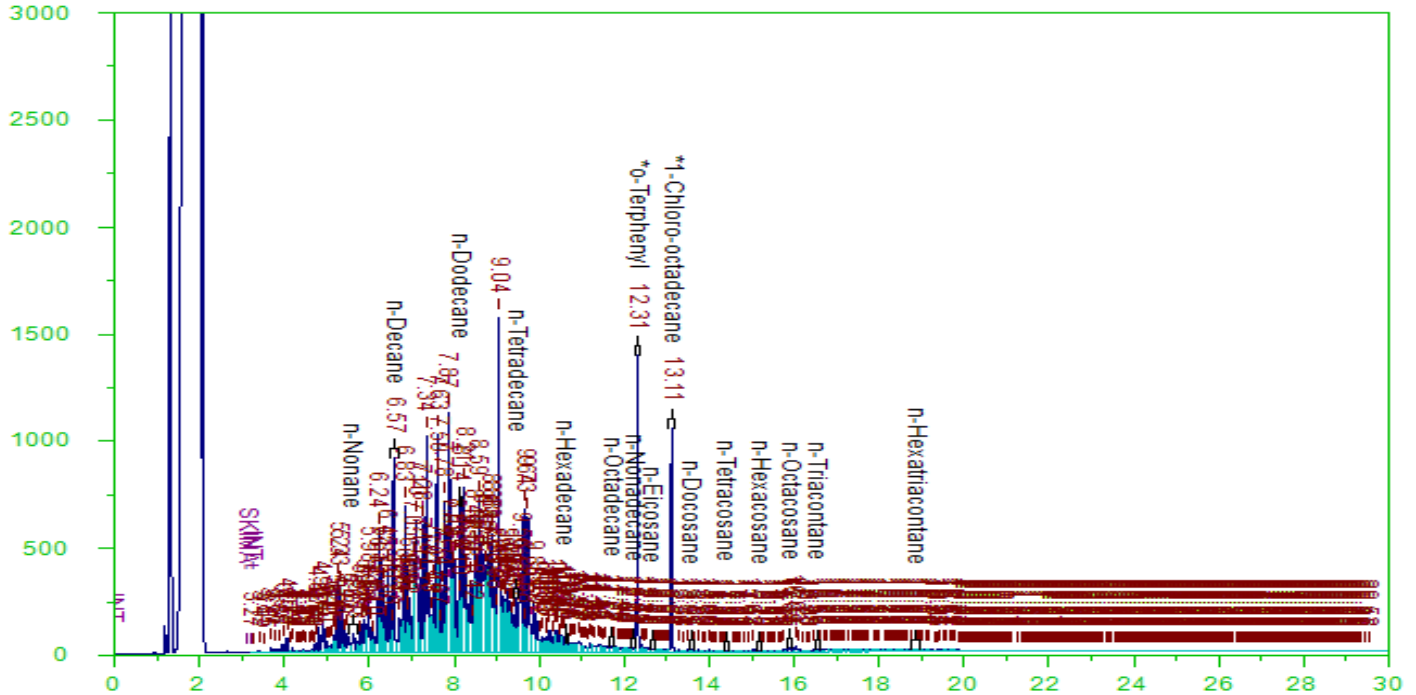
Aliphatic Hydrocarbon Areas and Quantitations uncorrected for Aromatics:
C5-C8 Area: 3032.6953 C5-C8 Amount: 0.13812655
C9-C12 Area: 1734.1117 C9-C12 Amount: 0.098097675

B25071795 - B25071795-001B

Batch ID: 201907

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B25071795-001B ;0730HP5 , \$HC-EPH-SCRN-S,



EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) SCREENING ANALYSIS CHROMATOGRAM

Sample Name: B25071795-001B ;0730HP5 , \$HC-EPH-SCRN-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\DAT\HP5073025_B\0730HP5.0017.RAW
Date & Time Acquired: 7/30/2025 11:36:06 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\METHODS\S3_SCN-ON-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\CALS\8015M_SC250129ON.CAL
Sample Weight: 29.87 Dilution: 2 S.A.: 1

Mean RF for C9 to C18 hydrocarbons: 24586.0700
Mean RF for C19 to C36 Hydrocarbons: 25113.5000
Mean RF for Total Extractable Hydrocarbons: 24849.7800
Rt range for Diesel Range Organics: 6.49 to 16.61
Rt range for C9 to C18 Hydrocarbons: 5.53 to 12.25
Rt range for C19 to C36 Hydrocarbons: 12.28 to 18.94

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.312	2522312	6.696	6.113	91.30	-
*1-Chloro-octadecane	13.114	2129539	6.696	6.796	101.49	-

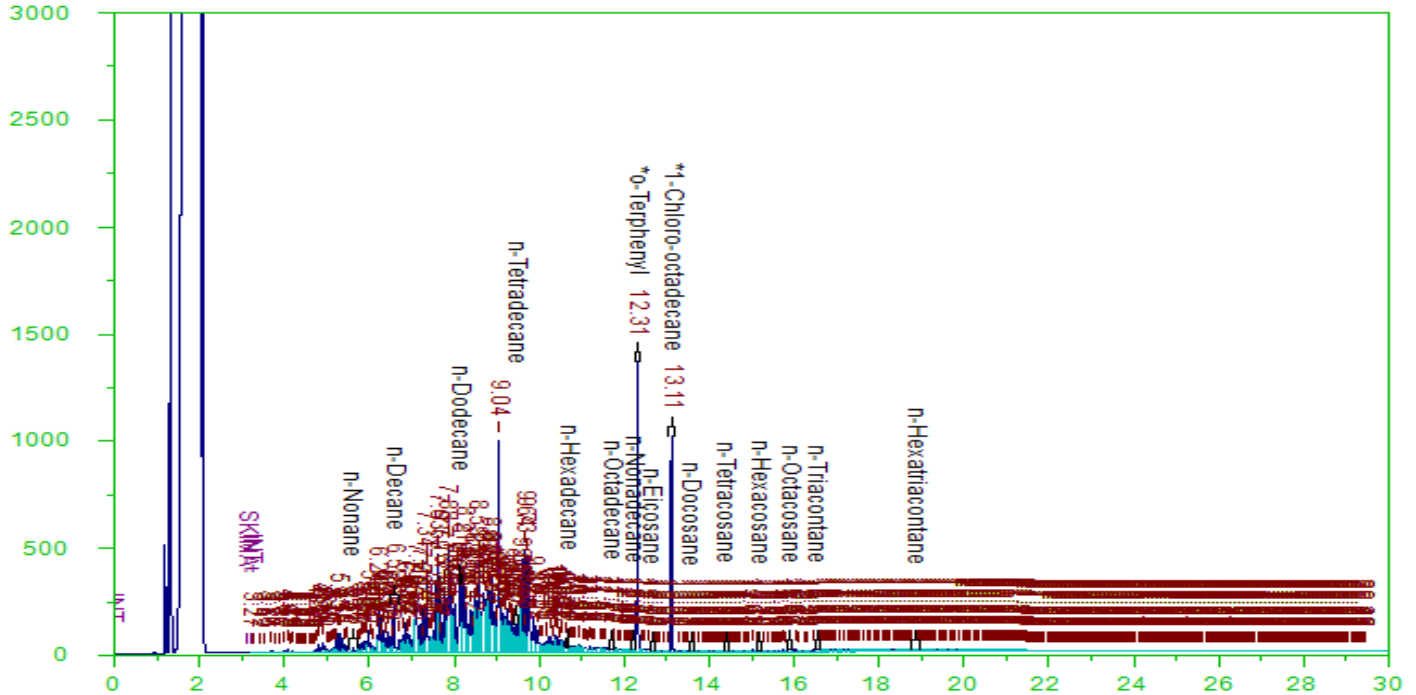
TEH Area: 80284176 TEH Amount: 216.32271
C9-C18 Area: 70968910 C9-C18 Amount: 193.27414
C19-C36 Area: 3134109.2 C19-C36 Amount: 8.356063

B25071795 - B25071795-002B

Batch ID: 201907

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B25071795-002B ;0730HP5 , \$HC-EPH-SCRN-S,



EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) SCREENING ANALYSIS CHROMATOGRAM

Sample Name: B25071795-002B ;0730HP5 , \$HC-EPH-SCRN-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\DAT\HP5073025_B\0730HP5.0018.RAW
Date & Time Acquired: 7/31/2025 12:18:42 AM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\METHODS\S3_SCN-ON-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\CALS\8015M_SC250129ON.CAL
Sample Weight: 29.71 Dilution: 2 S.A.: 1

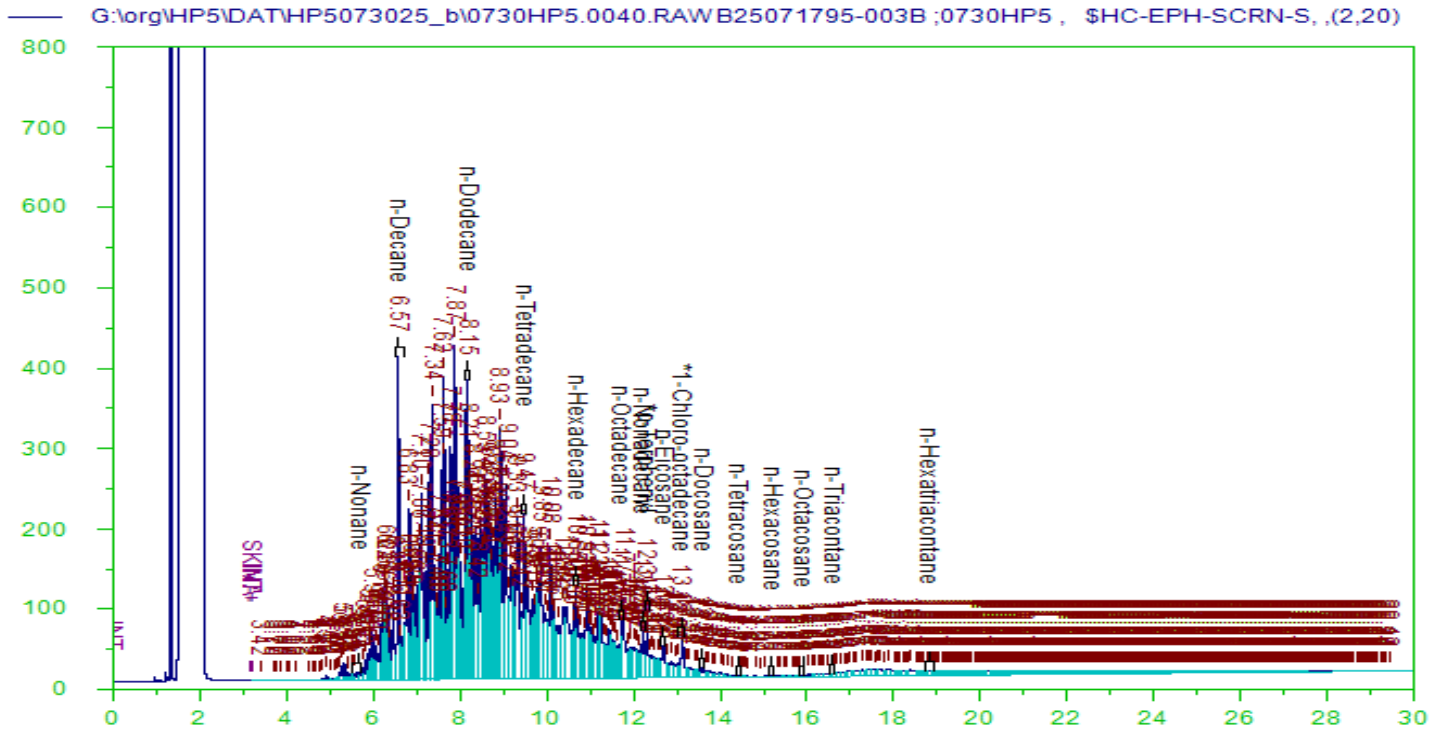
Mean RF for C9 to C18 hydrocarbons: 24586.0700
Mean RF for C19 to C36 Hydrocarbons: 25113.5000
Mean RF for Total Extractable Hydrocarbons: 24849.7800
Rt range for Diesel Range Organics: 6.49 to 16.61
Rt range for C9 to C18 Hydrocarbons: 5.53 to 12.25
Rt range for C19 to C36 Hydrocarbons: 12.28 to 18.94

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.313	2475200	6.732	6.031	89.59	-
*1-Chloro-octadecane	13.113	2053048	6.732	6.587	97.85	-

TEH Area: 43509400 TEH Amount: 117.865814
C9-C18 Area: 37109488 C9-C18 Amount: 101.606895
C19-C36 Area: 2859007 C19-C36 Amount: 7.6636453

B25071795 - B25071795-003B

Batch ID: 201907



EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) SCREENING ANALYSIS CHROMATOGRAM

Sample Name: B25071795-003B ; 0730HP5 , \$HC-EPH-SCRN-S, (2,20)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\DAT\HP5073025_B\0730HP5.0040.RAW
Date & Time Acquired: 7/31/2025 4:06:01 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\METHODS\S3_SCN-073040-ON-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\CALS\8015M_SC250129ON.CAL
Sample Weight: 30 Dilution: 40 S.A.: 1

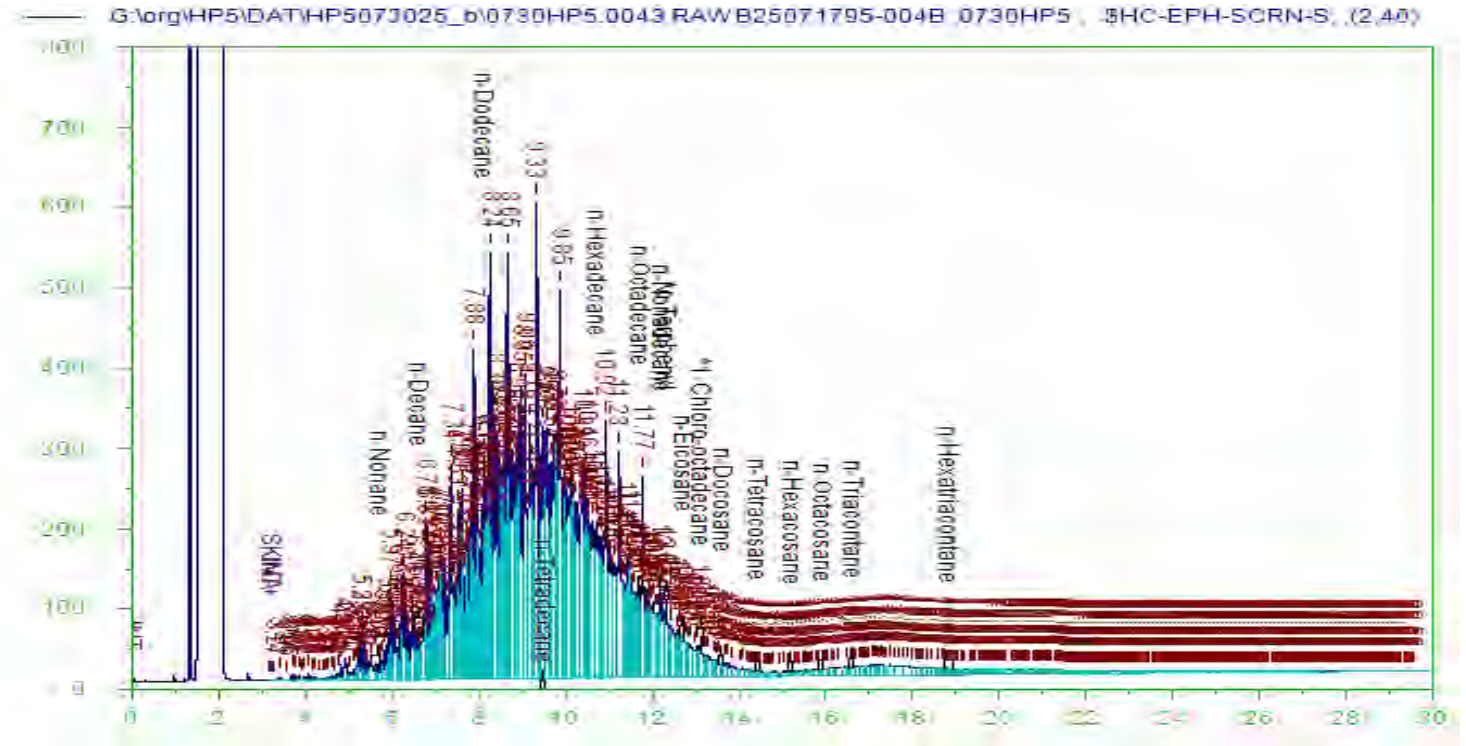
Mean RF for C9 to C18 hydrocarbons: 24586.0700
Mean RF for C19 to C36 Hydrocarbons: 25113.5000
Mean RF for Total Extractable Hydrocarbons: 24849.7800
Rt range for Diesel Range Organics: 6.49 to 16.61
Rt range for C9 to C18 Hydrocarbons: 5.53 to 12.25
Rt range for C19 to C36 Hydrocarbons: 12.28 to 18.94

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.312	302900	6.667	14.618	219.28	-
*1-Chloro-octadecane	13.116	194336	6.667	12.349	185.24	-

TEH Area: 41473472 TEH Amount: 2225.2896
C9-C18 Area: 37022584 C9-C18 Amount: 2007.781
C19-C36 Area: 2320501 C19-C36 Amount: 123.20075

B25071795 - B25071795-004B

Batch ID: 201907



EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) SCREENING ANALYSIS CHROMATOGRAM

Sample Name: B25071795-004B ;0730HP5 , \$HC-EPH-SCRN-S, , (2,40)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\DAT\HP5073025_B\0730HP5.0043.RAW
Date & Time Acquired: 7/31/2025 6:16:12 PM
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Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\CALS\8015M_SC250129ON.CAL
Sample Weight: 29.77 Dilution: 80 S.A.: 1

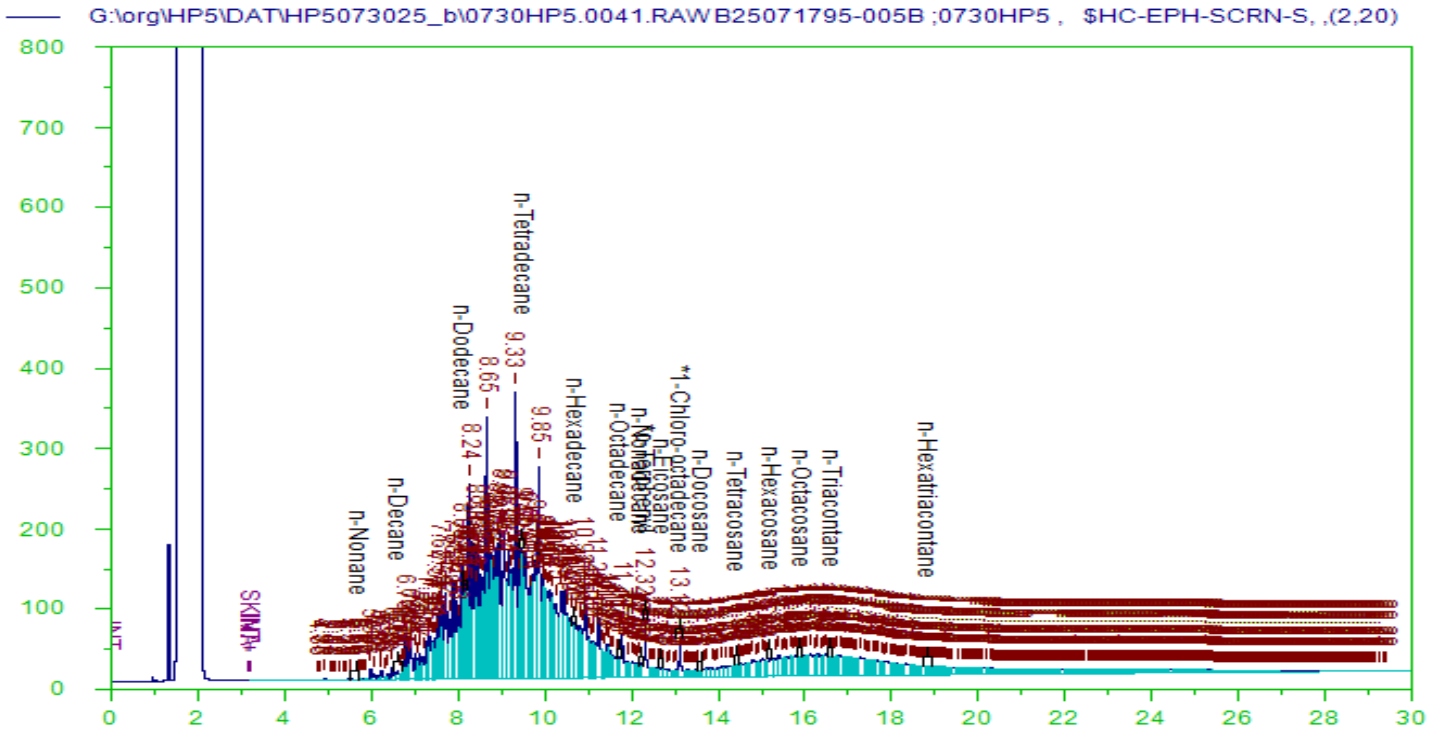
Mean RF for C9 to C18 hydrocarbons: 24586.0700
Mean RF for C19 to C36 Hydrocarbons: 25113.5000
Mean RF for Total Extractable Hydrocarbons: 24849.7800
Rt range for Diesel Range Organics: 6.49 to 16.61
Rt range for C9 to C18 Hydrocarbons: 5.53 to 12.25
Rt range for C19 to C36 Hydrocarbons: 12.28 to 18.94

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.312	589865	6.718	57.376	854.04	-
*1-Chloro-octadecane	13.112	235276	6.718	30.132	448.52	-

TEH Area: 71878216 TEH Amount: 7772.949
C9-C18 Area: 63417644 C9-C18 Amount: 6931.5776
C19-C36 Area: 5412129.5 C19-C36 Amount: 579.12476

B25071795 - B25071795-005B

Batch ID: 201907



EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) SCREENING ANALYSIS CHROMATOGRAM

Sample Name: B25071795-005B ;0730HP5 , \$HC-EPH-SCRN-S, (2,20)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\DAT\HP5073025_B\0730HP5.0041.RAW
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Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\CALS\8015M_SC250129ON.CAL
Sample Weight: 29.72 Dilution: 40 S.A.: 1

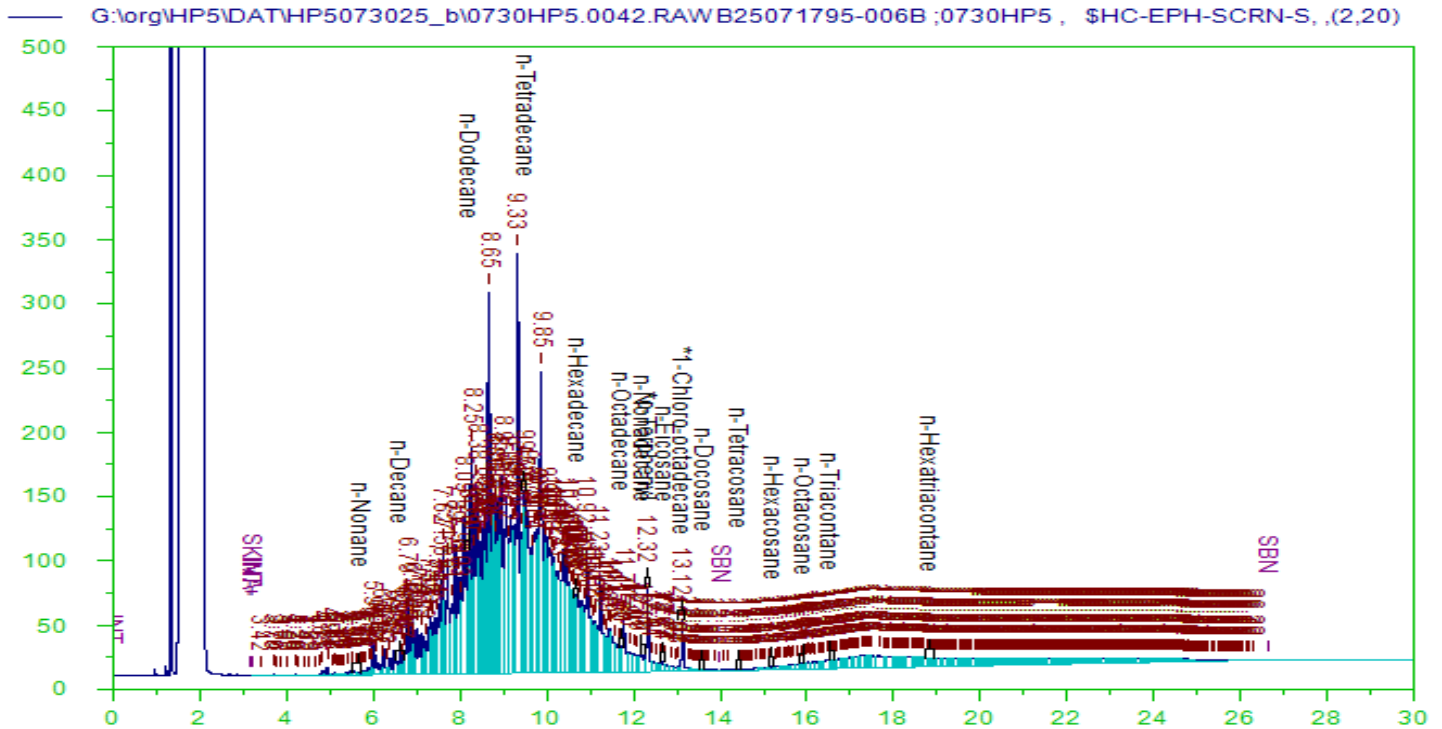
Mean RF for C9 to C18 hydrocarbons: 24586.0700
Mean RF for C19 to C36 Hydrocarbons: 25113.5000
Mean RF for Total Extractable Hydrocarbons: 24849.7800
Rt range for Diesel Range Organics: 6.49 to 16.61
Rt range for C9 to C18 Hydrocarbons: 5.53 to 12.25
Rt range for C19 to C36 Hydrocarbons: 12.28 to 18.94

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.317	258156	6.729	12.576	186.89	-
*1-Chloro-octadecane	13.116	145316	6.729	9.321	138.51	-

TEH Area: 35653524 TEH Amount: 1931.039
C9-C18 Area: 26693124 C9-C18 Amount: 1461.2397
C19-C36 Area: 6451227.5 C19-C36 Amount: 345.73743

B25071795 - B25071795-006B

Batch ID: 201907



EXTRACTABLE PETROLEUM HYDROCARBONS (EPH) SCREENING ANALYSIS CHROMATOGRAM

Sample Name: B25071795-006B ;0730HP5 , \$HC-EPH-SCRN-S, (2,20)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\DAT\HP5073025_B\0730HP5.0042.RAW
Date & Time Acquired: 7/31/2025 5:32:58 PM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\METHODS\S3_SCN-073042-ON-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP5\CALS\8015M_SC250129ON.CAL
Sample Weight: 30.52 Dilution: 40 S.A.: 1

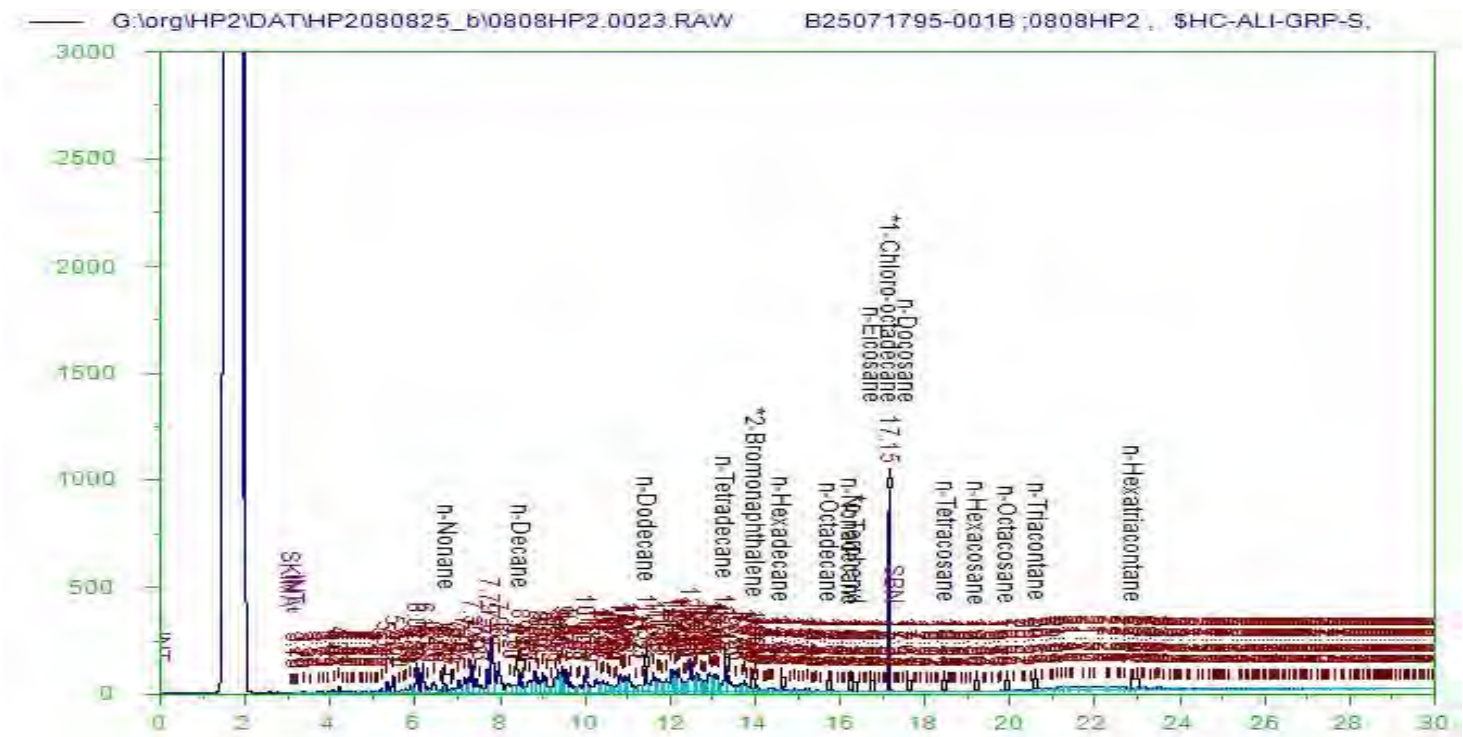
Mean RF for C9 to C18 hydrocarbons: 24586.0700
Mean RF for C19 to C36 Hydrocarbons: 25113.5000
Mean RF for Total Extractable Hydrocarbons: 24849.7800
Rt range for Diesel Range Organics: 6.49 to 16.61
Rt range for C9 to C18 Hydrocarbons: 5.53 to 12.25
Rt range for C19 to C36 Hydrocarbons: 12.28 to 18.94

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.318	205302	6.553	9.739	148.62	-
*1-Chloro-octadecane	13.120	108459	6.553	6.775	103.38	-

TEH Area: 25764892 TEH Amount: 1358.8802
C9-C18 Area: 22697502 C9-C18 Amount: 1209.9414
C19-C36 Area: 1623496.6 C19-C36 Amount: 84.72657

B25071795 - B25071795-001B

Batch ID: 202161



EPH ALIPHATICS (FID) ANALYSIS REPORT

Sample Name: B25071795-001B ;0808HP2 , \$HC-ALI-GRP-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2080825_B\0808HP2.0023.RAW
Date & Time Acquired: 8/9/2025 2:59:57 AM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\L3_EPH-080823-UM-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AL250414UM.CAL
Sample Weight: 29.87 Dilution: 2 S.A.: 1

Mean RF for C9 to C18 Aliphatic Hydrocarbons: 26229.834
Mean RF for C19 to C36 Aliphatic Hydrocarbons: 27027.953
Mean RF for Total Extractable Hydrocarbons: 26685.904
Rt range for Diesel Range Organics: 8.379999 to 19.997
Rt range for C9 to C18 Aliphatic Hydrocarbons: 6.6470003 to 16.221
Rt range for C19 to C36 Aliphatic Hydrocarbons: 16.246 to 23.051

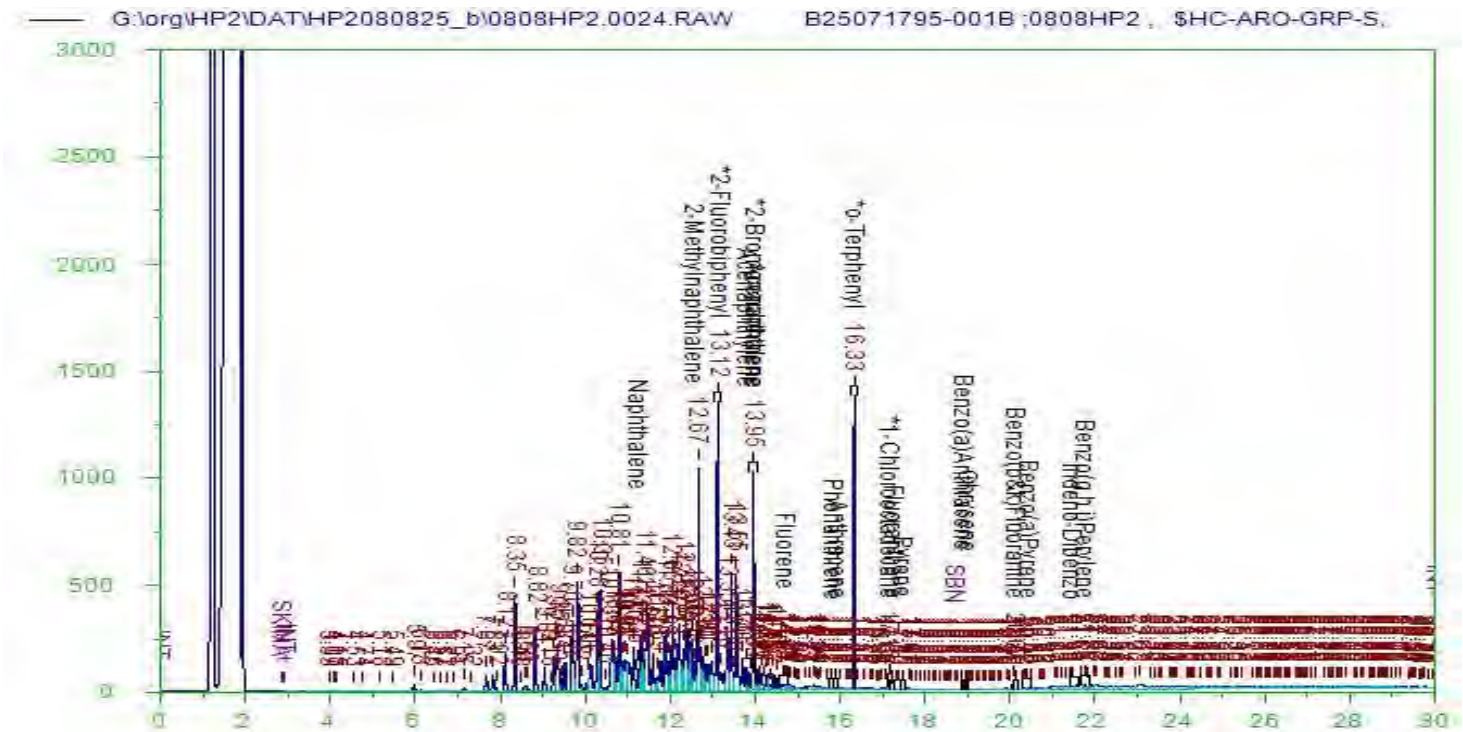
SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*1-Chloro-octadecane	17.151	2049428	6.696	5.559	83.02	-

DRO Area: 18653426 DRO Amount: 46.802757
TEH Area: 32520794 TEH Amount: 81.59696

Aliphatic Hydrocarbon Areas and Amounts:
C9-C18 Area: 23566742 C9-C18 Amount: 60.158745
C19-C36 Area: 3204880.2 C19-C36 Amount: 7.9395046

B25071795 - B25071795-001B

Batch ID: 202161



EPH AROMATICS RANGE VALUES (FID) ANALYSIS REPORT

Sample Name: B25071795-001B ;0808HP2 , \$HC-ARO-GRP-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2080825_B\0808HP2.0024.RAW
Date & Time Acquired: 8/9/2025 3:44:33 AM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\R3_EPH-080824-UMA-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AR250421UMA.CAL
Sample Weight: 29.87 Dilution: 2 S.A.: 1

Mean RF EPH Aromatics: 29832.363

Rt range for EPH C11 to C22 Aromatics: 11.179999 to 21.85

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*2-Fluorobiphenyl	13.116	2901196	6.696	7.430	110.97	-
*2-Bromonaphthalene	13.954	1955455	6.696	7.097	106.00	-
*o-Terphenyl	16.332	2753408	6.696	5.920	88.42	-
*1-Chlorooctadecane	17.150	107553	6.696	0.290	4.33	-

C11-C22 Aromatics Area: 25369434

C11-C22 Aromatics Amount: 56.940052

EPH Aromatics total Area: 45225556

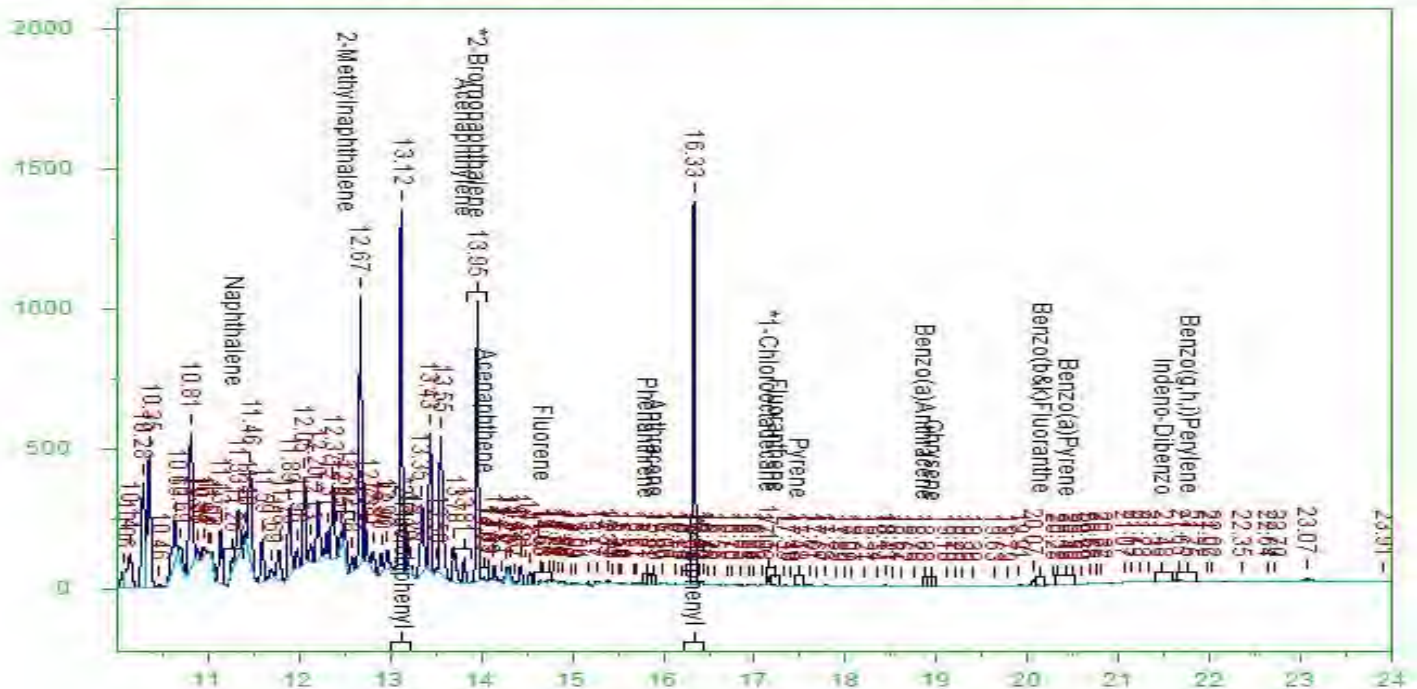
EPH Aromatics Total Amount: 101.50584

B25071795 - B25071795-001B

Batch ID: 202161

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B25071795-001B ;0808HP2 , \$HC-ARO-GRP-S,



EPH AROMATICS TARGET VALUES (FID) ANALYSIS REPORT

Sample Name: B25071795-001B ;0808HP2 , \$HC-ARO-GRP-S,

Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2080825_B\0808HP2.0024.RAW

Date & Time Acquired: 8/9/2025 3:44:33 AM

Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\RS_EPH-UMA-L%.MET

Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AR250421UMA.CAL

Sample Weight: 29.87

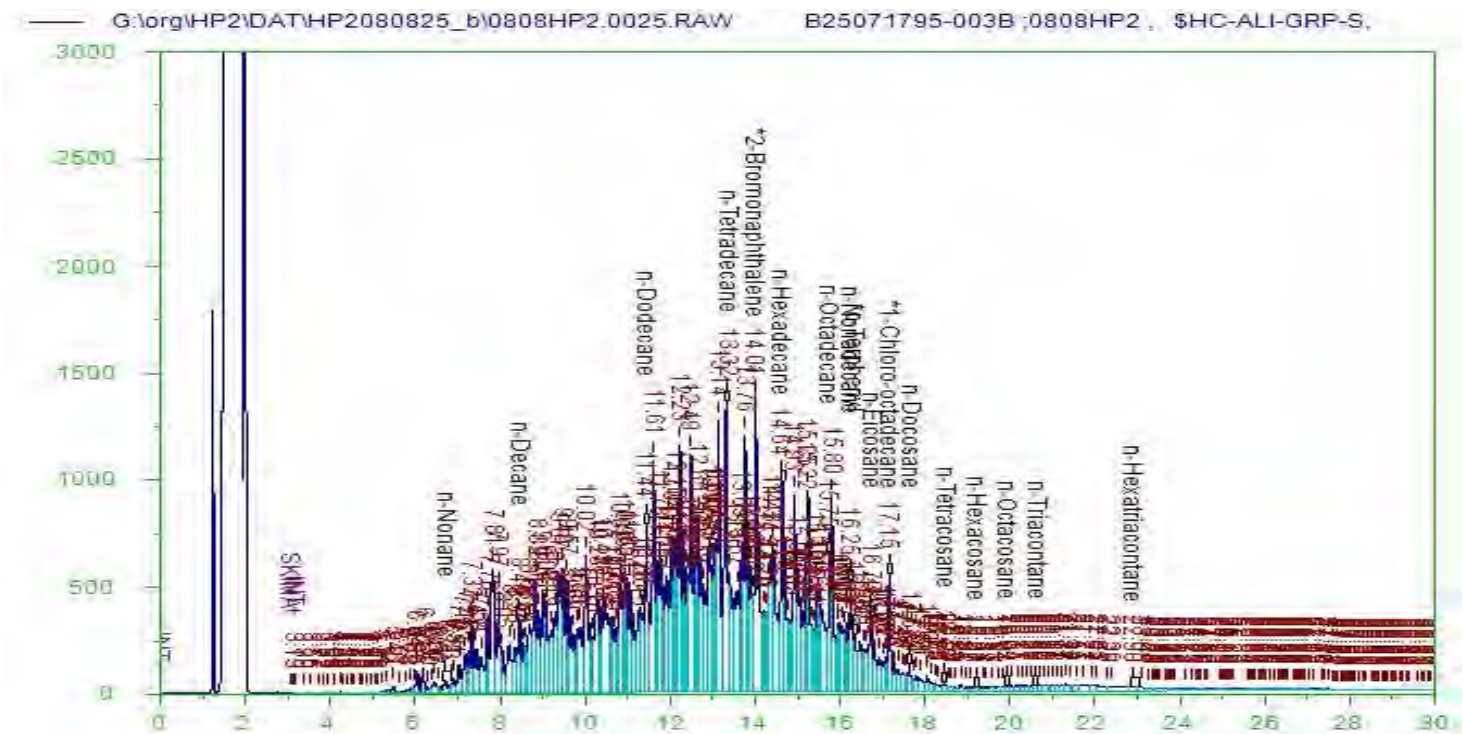
Dilution: 2

S.A.: 1

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
Naphthalene	11.261	2.670	2.693	78298	0.184	
2-Methylnaphthalene	12.498	1.440	1.455	226862	0.533	
Acenaphthylene	13.811	0.170	0.142	165630	0.380	
Acenaphthene	14.028	-0.080	-0.074	23030	0.052	J
Fluorene	14.682	14.682	14.682	1821	0.067	U
Phenanthrene	15.813	15.813	15.813	11763	0.067	U
Anthracene	15.888	15.888	15.888	3900	0.067	U
Fluoranthene	0.000	0.000	0.000	0	0.067	U
Pyrene	17.481	17.481	17.481	6503	0.067	U
Benzo(a)Anthracene	18.881	18.881	18.881	4462	0.067	U
Chrysene	0.000	0.000	0.000	0	0.067	U
Benzo(b&k)Fluoranthene	0.000	0.000	0.000	0	0.134	U
Benzo(a)Pyrene	20.415	20.415	20.415	767	0.067	U
Indeno-Dibenzo	21.479	21.479	21.479	1014	0.134	U
Benzo(g,h,i)Perylene	21.750	21.750	21.750	1009	0.067	U
SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	QC LIMITS
*2-Fluorobiphenyl	13.116	2496885	6.696	6.394	95.50	40-140
*2-Bromonaphthalene	13.954	1802381	6.696	6.542	97.70	40-140
*o-Terphenyl	16.332	2700764	6.696	5.807	86.73	40-140
*1-Chlorooctadecane	17.150	57901	6.696	0.156	2.33	40-140

B25071795 - B25071795-003B

Batch ID: 202161



EPH ALIPHATICS (FID) ANALYSIS REPORT

Sample Name: B25071795-003B ;0808HP2 , \$HC-ALI-GRP-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2080825_B\0808HP2.0025.RAW
Date & Time Acquired: 8/9/2025 4:29:07 AM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\L3_EPH-UM-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AL250414UM.CAL
Sample Weight: 30 Dilution: 4 S.A.: 1

Mean RF for C9 to C18 Aliphatic Hydrocarbons: 26229.834
Mean RF for C19 to C36 Aliphatic Hydrocarbons: 27027.953
Mean RF for Total Extractable Hydrocarbons: 26685.904
Rt range for Diesel Range Organics: 8.379999 to 19.997
Rt range for C9 to C18 Aliphatic Hydrocarbons: 6.6470003 to 16.221
Rt range for C19 to C36 Aliphatic Hydrocarbons: 16.246 to 23.051

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*1-Chloro-octadecane	17.151	1911160	6.667	10.323	154.84	-

DRO Area: 216490720 DRO Amount: 1081.6732
TEH Area: 244019410 TEH Amount: 1219.2174

Aliphatic Hydrocarbon Areas and Amounts:
C9-C18 Area: 219011790 C9-C18 Amount: 1113.2961
C19-C36 Area: 21027266 C19-C36 Amount: 103.73096

Batch ID: 202161

B25071795-003B ;0808HP2 , \$HC-ARO-GRP-S



Sample Weight: 30 Dilution: 4 S.A.: 1

Rt range for EPH C11 to C22 Aromatics: 11.179999 to 21.85

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*2-Fluorobiphenyl	13.118	3581332	6.667	18.264	273.96	-
*2-Bromonaphthalene	13.956	2904420	6.667	20.992	314.88	-
*o-Terphenyl	16.331	2073882	6.667	8.879	133.19	-
*1-Chlorooctadecane	17.148	308278	6.667	1.656	24.83	-

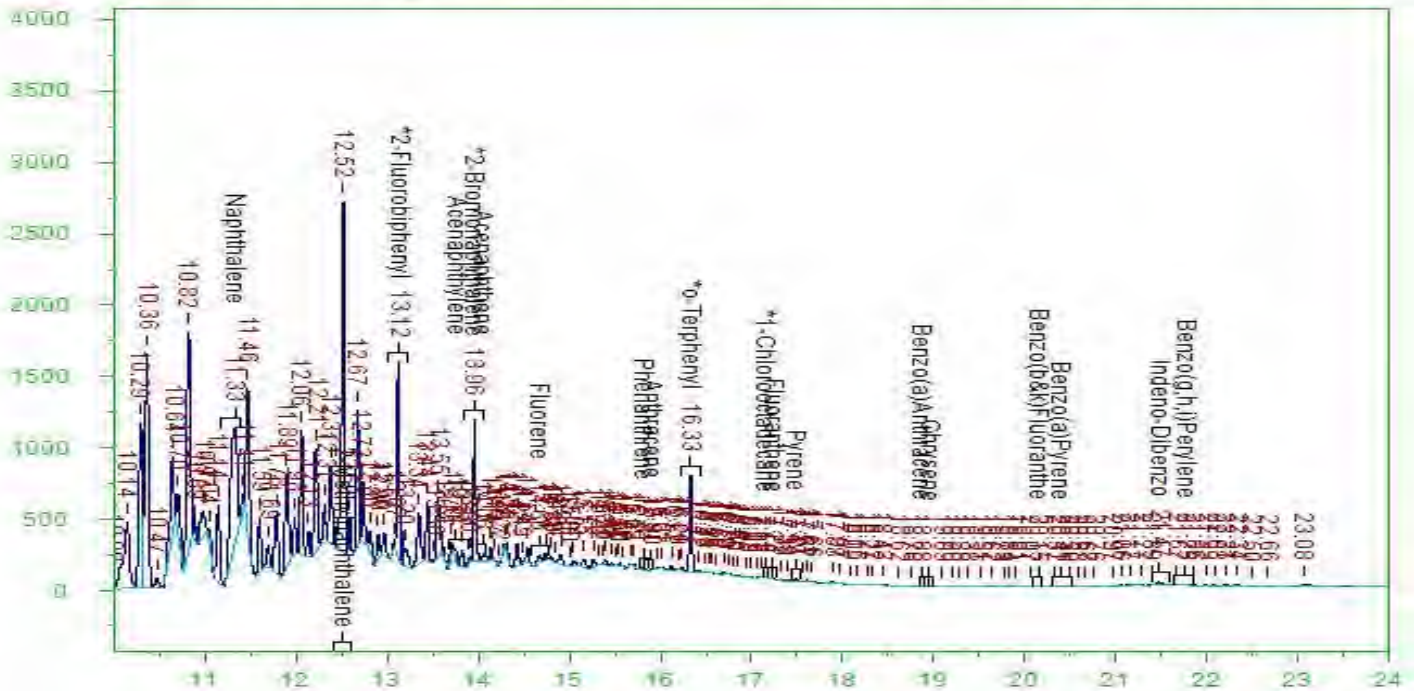
EPH Aromatics Total Amount: 729.8211

B25071795 - B25071795-003B

Batch ID: 202161

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B25071795-003B ; 0808HP2 , \$HC-ARO-GRP-S,



EPH AROMATICS TARGET VALUES (FID) ANALYSIS REPORT

Sample Name: B25071795-003B ; 0808HP2 , \$HC-ARO-GRP-S,

Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2080825_B\0808HP2.0026.RAW

Date & Time Acquired: 8/9/2025 5:13:45 AM

Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\RS_EPH-UMA-L%.MET

Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AR250421UMA.CAL

Sample Weight: 30

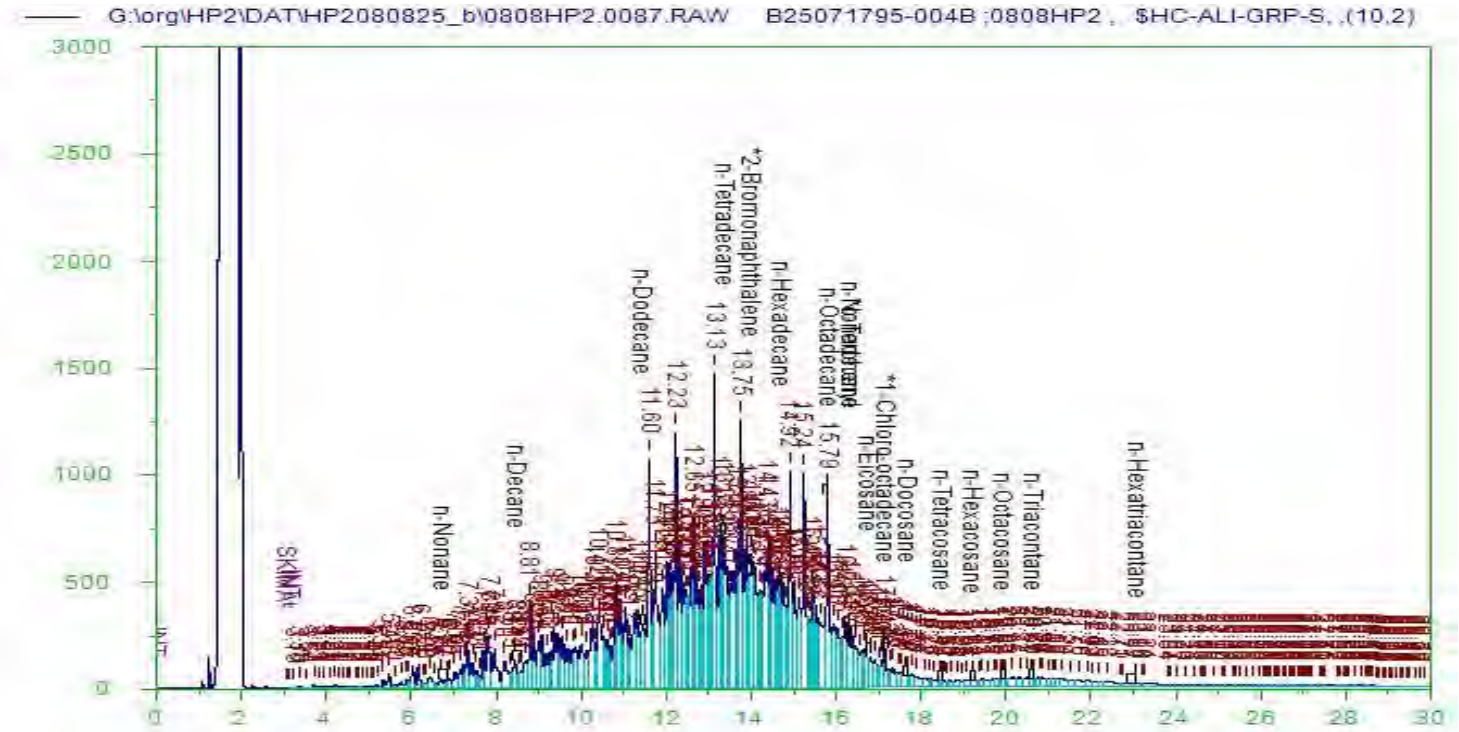
Dilution: 4

S.A.: 1

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
Naphthalene	11.329	2.670	2.626	4392082	20.561	
2-Methylnaphthalene	12.516	1.440	1.439	5885636	27.541	
Acenaphthylene	13.744	0.170	0.211	100791	0.461	
Acenaphthene	14.062	-0.080	-0.106	157200	0.712	
Fluorene	14.664	-0.720	-0.708	151732	0.686	
Phenanthrene	15.810	-1.860	-1.854	41415	0.188	
Anthracene	15.899	15.899	15.899	18381	0.133	U
Fluoranthene	17.226	17.226	17.226	20305	0.133	U
Pyrene	17.487	-3.530	-3.531	50182	0.219	
Benzo(a)Anthracene	18.876	18.876	18.876	6967	0.133	U
Chrysene	0.000	0.000	0.000	0	0.133	U
Benzo(b&k)Fluoranthene	20.150	20.150	20.150	1631	0.267	U
Benzo(a)Pyrene	20.410	20.410	20.410	808	0.133	U
Indeno-Dibenzo	21.470	-7.550	-7.514	92892	0.400	
Benzo(g,h,i)Perylene	21.751	21.751	21.751	1712	0.133	U
SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	QC LIMITS
*2-Fluorobiphenyl	13.118	2487722	6.667	12.687	190.30	40-140
*2-Bromonaphthalene	13.956	1794225	6.667	12.968	194.52	40-140
*o-Terphenyl	16.331	1324968	6.667	5.673	85.09	40-140
*1-Chlorooctadecane	17.148	9674	6.667	0.052	0.78	40-140

B25071795 - B25071795-004B

Batch ID: 202161



EPH ALIPHATICS (FID) ANALYSIS REPORT

Sample Name: B25071795-004B ;0808HP2, \$HC-ALI-GRP-S, (10,2)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2080825_B\0808HP2.0087.RAW
Date & Time Acquired: 8/11/2025 8:35:27 AM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\L3_EPH-UM-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AL250414UM.CAL
Sample Weight: 29.77 Dilution: 20 S.A.: 1

Mean RF for C9 to C18 Aliphatic Hydrocarbons: 26229.834
Mean RF for C19 to C36 Aliphatic Hydrocarbons: 27027.953
Mean RF for Total Extractable Hydrocarbons: 26685.904
Rt range for Diesel Range Organics: 8.379999 to 19.997
Rt range for C9 to C18 Aliphatic Hydrocarbons: 6.6470003 to 16.221
Rt range for C19 to C36 Aliphatic Hydrocarbons: 16.246 to 23.051

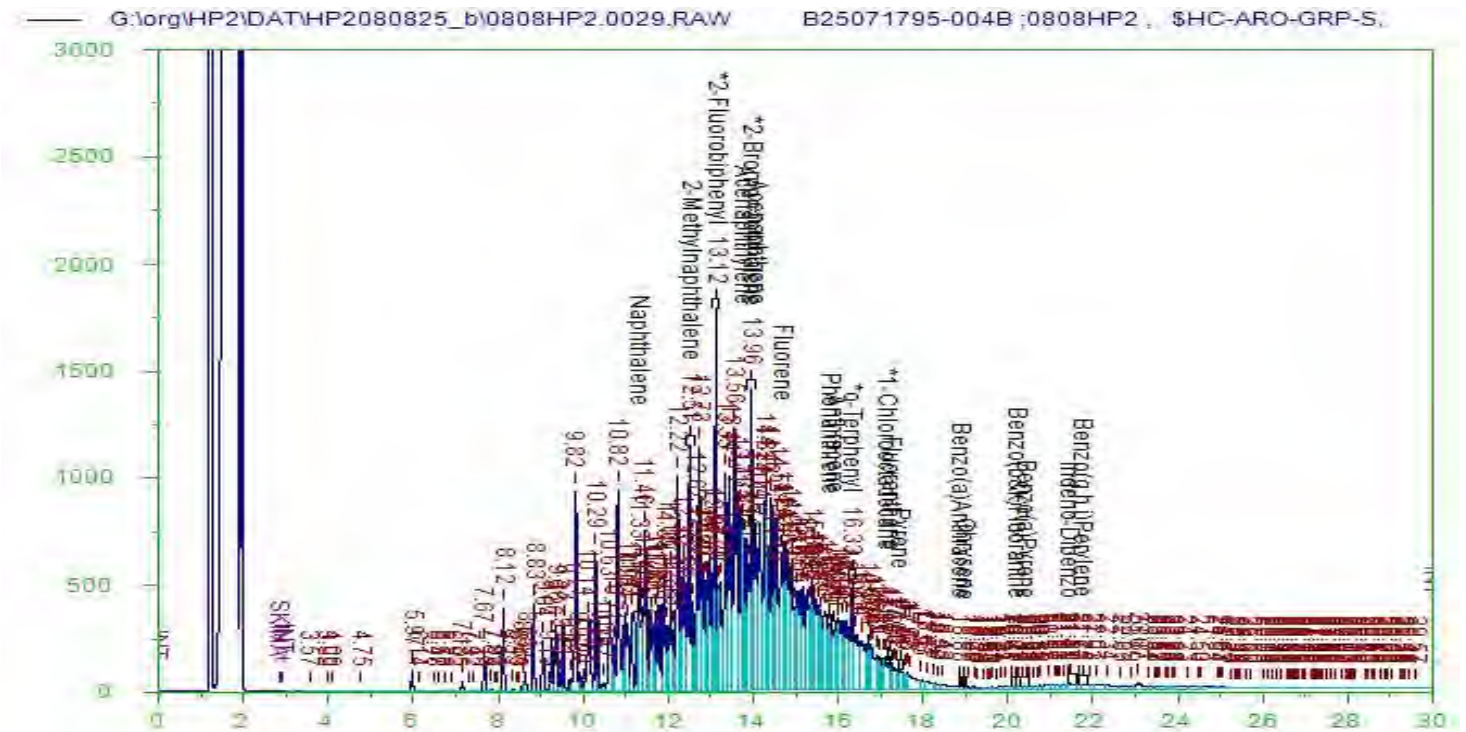
SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC
*1-Chloro-octadecane	17.142	703410	6.718	19.144	284.95

DRO Area: 180015360 DRO Amount: 4531.884
TEH Area: 199500130 TEH Amount: 5022.413

Aliphatic Hydrocarbon Areas and Amounts:
C9-C18 Area: 175635070 C9-C18 Amount: 4498.4907
C19-C36 Area: 19366862 C19-C36 Amount: 481.3902

B25071795 - B25071795-004B

Batch ID: 202161



EPH AROMATICS RANGE VALUES (FID) ANALYSIS REPORT

Sample Name: B25071795-004B ; 0808HP2 , \$HC-ARO-GRP-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2080825_B\0808HP2.0029.RAW
Date & Time Acquired: 8/9/2025 7:26:49 AM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\R3_EPH-UMA-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AR250421UMA.CAL
Sample Weight: 29.77 Dilution: 10 S.A.: 1

Mean RF EPH Aromatics: 29832.363

Rt range for EPH C11 to C22 Aromatics: 11.179999 to 21.85

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*2-Fluorobiphenyl	13.120	4175087	6.718	53.641	798.45	-
*2-Bromonaphthalene	13.960	4624562	6.718	84.206	1253.41	-
*o-Terphenyl	16.334	2021610	6.718	21.806	324.59	-
*1-Chlorooctadecane	29.951	194	6.718	0.000	0.00	-

C11-C22 Aromatics Area: 143577470

C11-C22 Aromatics Amount: 1616.6641

EPH Aromatics total Area: 170674590

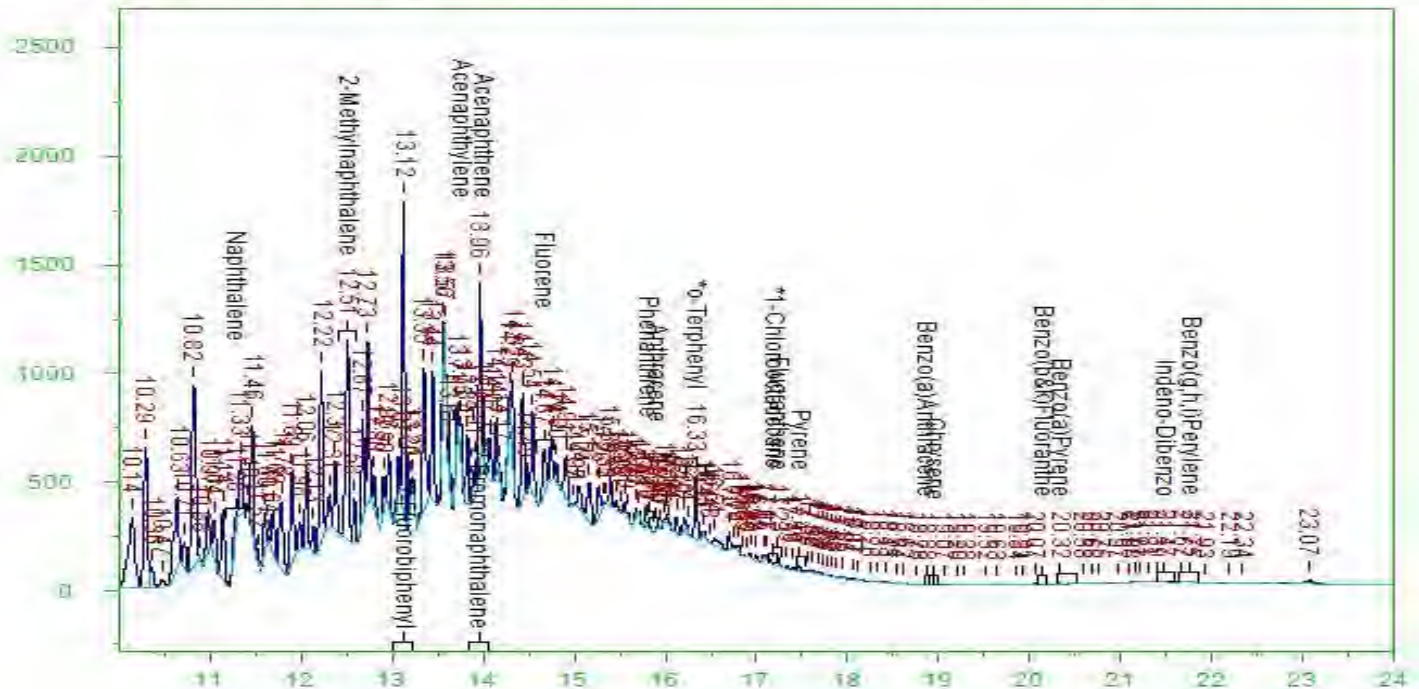
EPH Aromatics Total Amount: 1921.7742

B25071795 - B25071795-004B

Batch ID: 202161

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B25071795-004B ; 0808HP2 , \$HC-ARO-GRP-S,



EPH AROMATICS TARGET VALUES (FID) ANALYSIS REPORT

Sample Name: B25071795-004B ; 0808HP2 , \$HC-ARO-GRP-S,

Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2080825_B\0808HP2.0029.RAW

Date & Time Acquired: 8/9/2025 7:26:49 AM

Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\RS_EPH-UMA-L%.MET

Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AR250421UMA.CAL

Sample Weight: 29.77

Dilution: 10

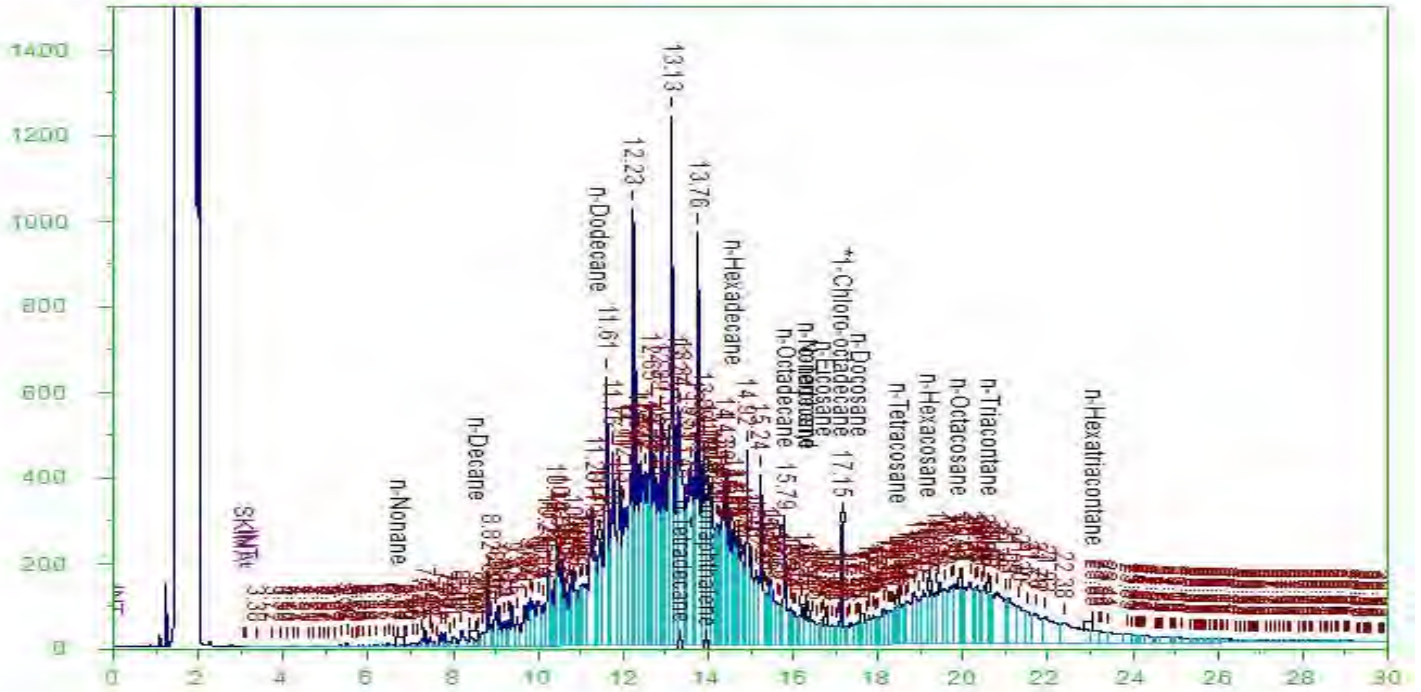
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TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
Naphthalene	11.278	2.670	2.682	163817	1.932	
2-Methylnaphthalene	12.506	1.440	1.454	2484281	29.287	
Acenaphthylene	13.747	0.170	0.212	271146	3.123	
Acenaphthene	13.999	-0.080	-0.039	116040	1.323	
Fluorene	14.668	-0.720	-0.708	507777	5.788	
Phenanthrene	15.813	-1.860	-1.853	43228	0.494	
Anthracene	15.902	-1.920	-1.942	31031	0.353	
Fluoranthene	17.229	-3.270	-3.270	77777	0.867	
Pyrene	17.462	-3.530	-3.502	58080	0.639	
Benzo(a)Anthracene	18.880	18.880	18.880	3536	0.336	U
Chrysene	0.000	0.000	0.000	0	0.336	U
Benzo(b,k)Fluoranthene	0.000	0.000	0.000	0	0.672	U
Benzo(a)Pyrene	20.317	20.317	20.317	4160	0.336	U
Indeno-Dibenzo	21.472	21.472	21.472	15332	0.672	U
Benzo(g,h,i)Perylene	21.746	21.746	21.746	769	0.336	U
SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	QC LIMITS
*2-Fluorobiphenyl	13.120	2568244	6.718	32.997	491.15	40-140
*2-Bromonaphthalene	13.960	1333785	6.718	24.286	361.50	40-140
*o-Terphenyl	16.334	619267	6.718	6.680	99.43	40-140
*1-Chlorooctadecane	0.000	78	6.718	0.000	0.00	40-140

B25071795 - B25071795-005B

Batch ID: 202161

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EPH ALIPHATICS (FID) ANALYSIS REPORT

Sample Name: B25071795-005B ;0808HP2 , 5HC-ALI-GRP-S, ,(4,2)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2080825_B\0808HP2.0088.RAW
Date & Time Acquired: 8/11/2025 9:19:21 AM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\L3_EPH-080888-UM-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AL250414UM.CAL
Sample Weight: 29.72 Dilution: 8 S.A.: 1

Mean RF for C9 to C18 Aliphatic Hydrocarbons: 26229.834
Mean RF for C19 to C36 Aliphatic Hydrocarbons: 27027.953
Mean RF for Total Extractable Hydrocarbons: 26685.904
Rt range for Diesel Range Organics: 8.379999 to 19.997
Rt range for C9 to C18 Aliphatic Hydrocarbons: 6.6470003 to 16.221
Rt range for C19 to C36 Aliphatic Hydrocarbons: 16.246 to 23.051

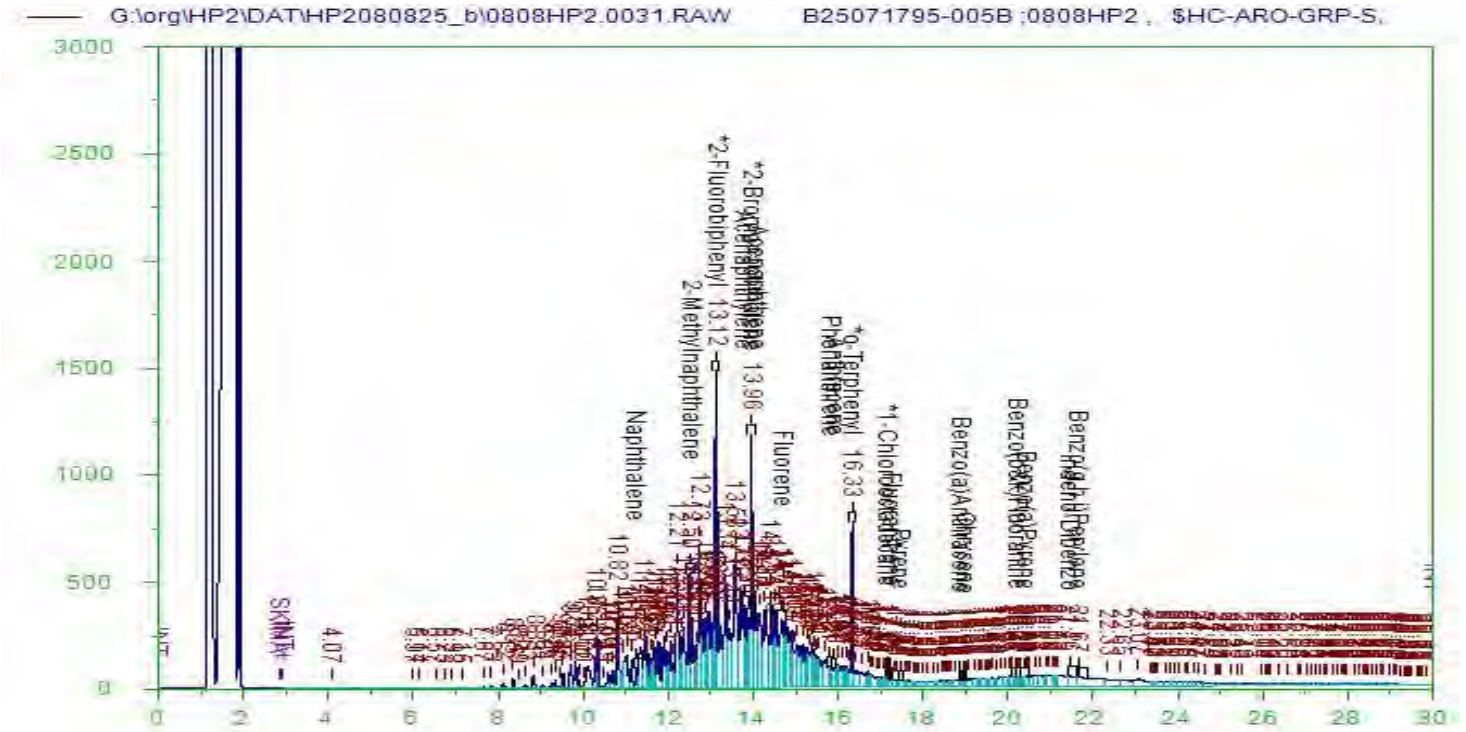
SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*1-Chloro-octadecane	17.147	781363	6.729	8.520	126.61	-

DRO Area: 117505930 DRO Amount: 1185.2748
TEH Area: 137245040 TEH Amount: 1384.382

Aliphatic Hydrocarbon Areas and Amounts:
C9-C18 Area: 102270910 C9-C18 Amount: 1049.537
C19-C36 Area: 31745948 C19-C36 Amount: 316.16684

B25071795 - B25071795-005B

Batch ID: 202161



EPH AROMATICS RANGE VALUES (FID) ANALYSIS REPORT

Sample Name: B25071795-005B ;0808HP2 , \$HC-ARO-GRP-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2080825_B\0808HP2.0031.RAW
Date & Time Acquired: 8/9/2025 8:55:14 AM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\R3_EPH-UMA-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AR250421UMA.CAL
Sample Weight: 29.72 Dilution: 4 S.A.: 1

Mean RF EPH Aromatics: 29832.363

Rt range for EPH C11 to C22 Aromatics: 11.179999 to 21.85

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*2-Fluorobiphenyl	13.117	3267168	6.729	16.819	249.93	-
*2-Bromonaphthalene	13.956	3288888	6.729	23.995	356.56	-
*o-Terphenyl	16.331	1801782	6.729	7.787	115.72	-
*1-Chlorooctadecane	17.148	205595	6.729	1.115	16.56	-

C11-C22 Aromatics Area: 71724480

C11-C22 Aromatics Amount: 323.5869

EPH Aromatics total Area: 83127256

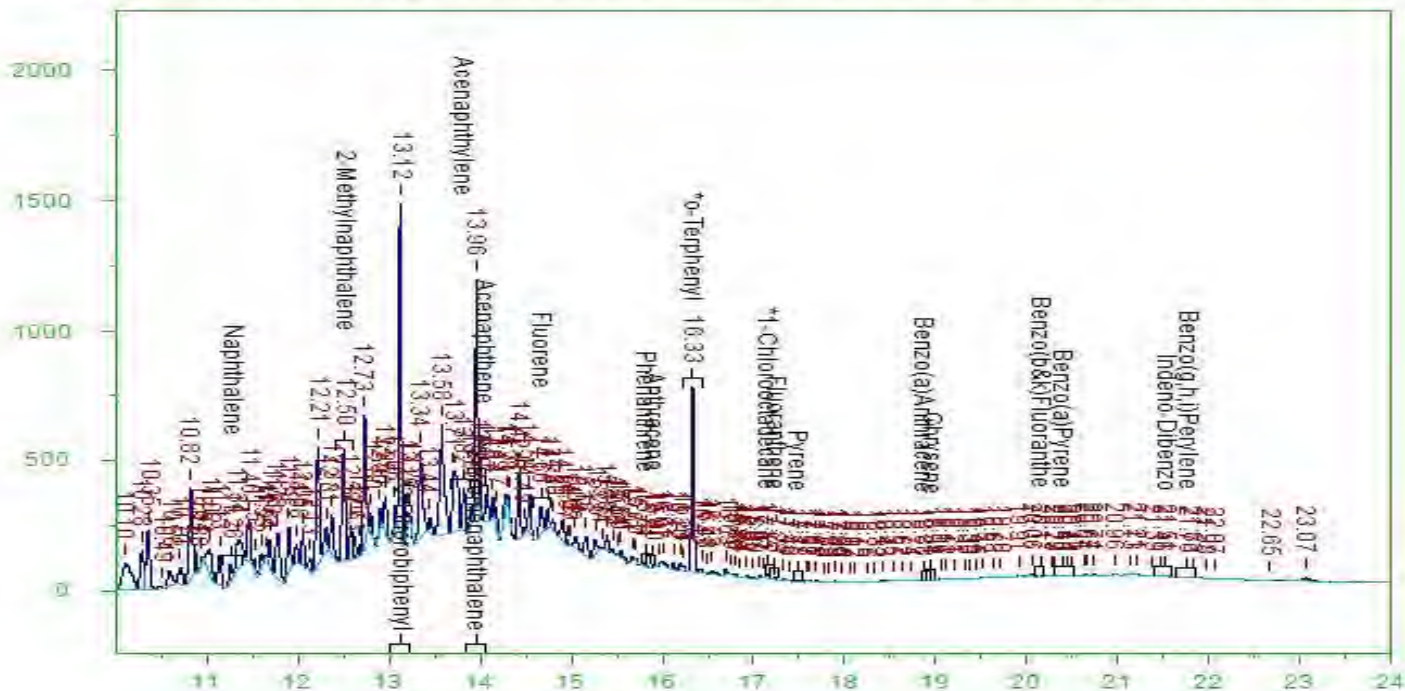
EPH Aromatics Total Amount: 375.03082

B25071795 - B25071795-005B

Batch ID: 202161

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B25071795-005B ; 0808HP2 , \$HC-ARO-GRP-S,



EPH AROMATICS TARGET VALUES (FID) ANALYSIS REPORT

Sample Name: B25071795-005B ; 0808HP2 , \$HC-ARO-GRP-S,

Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2080825_B\0808HP2.0031.RAW

Date & Time Acquired: 8/9/2025 8:55:14 AM

Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\RS_EPH-UMA-L%.MET

Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AR250421UMA.CAL

Sample Weight: 29.72

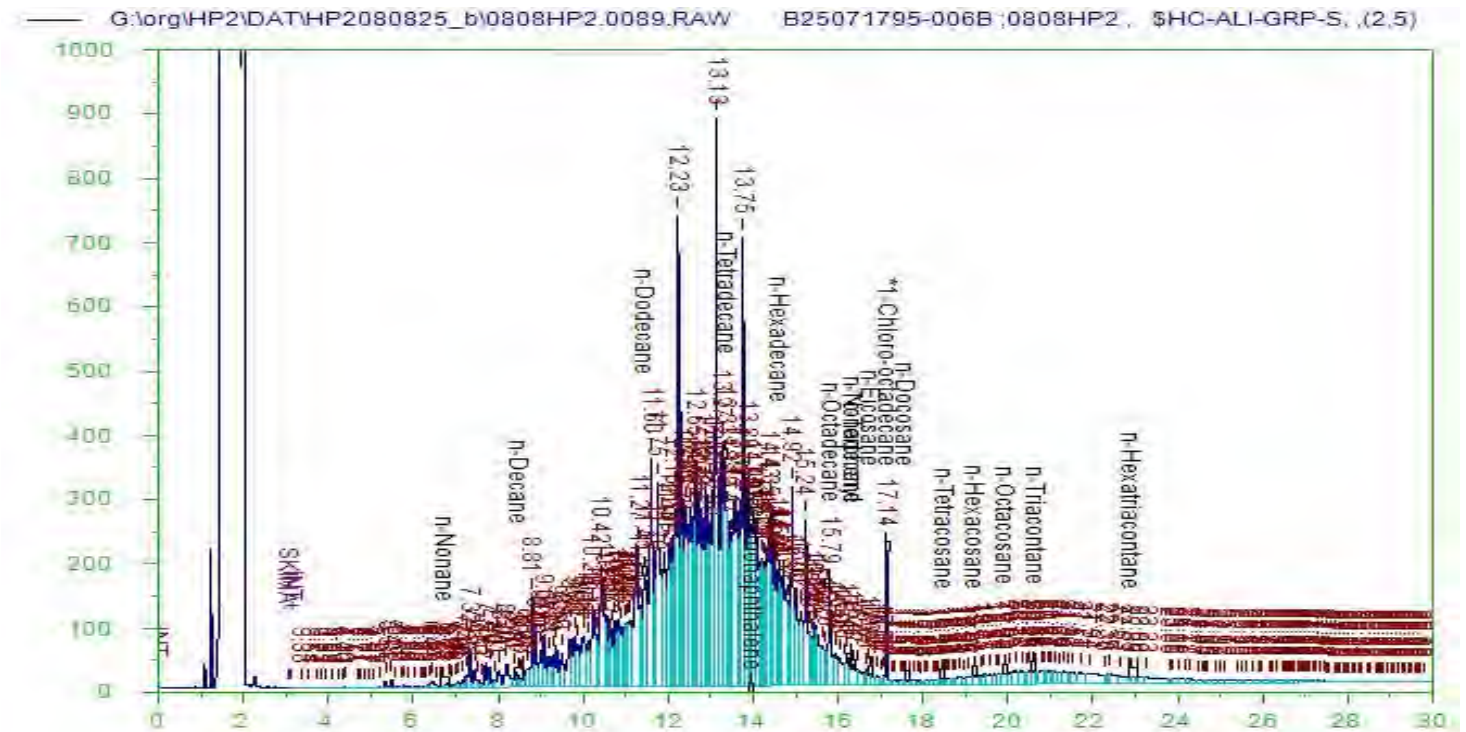
Dilution: 4

S.A.: 1

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
Naphthalene	11.257	2.670	2.698	133991	0.633	
2-Methylnaphthalene	12.496	1.440	1.460	1121017	5.295	
Acenaphthylene	13.816	0.170	0.140	330479	1.525	
Acenaphthene	14.066	-0.080	-0.110	257466	1.176	
Fluorene	14.665	-0.720	-0.709	284248	1.298	
Phenanthrene	15.810	-1.860	-1.855	25561	0.117	J
Anthracene	15.895	15.895	15.895	12573	0.135	U
Fluoranthene	17.226	17.226	17.226	20711	0.135	U
Pyrene	17.479	17.479	17.479	20739	0.135	U
Benzo(a)Anthracene	18.878	18.878	18.878	3142	0.135	U
Chrysene	18.940	18.940	18.940	1250	0.135	U
Benzo(b&k)Fluoranthene	20.171	20.171	20.171	812	0.269	U
Benzo(a)Pyrene	20.404	20.404	20.404	542	0.135	U
Indeno-Dibenzo	21.513	21.513	21.513	775	0.269	U
Benzo(g,h,i)Perylene	21.756	21.756	21.756	670	0.135	U
SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	QC LIMITS
*2-Fluorobiphenyl	13.117	2295594	6.729	11.817	175.60	40-140
*2-Bromonaphthalene	13.956	1416690	6.729	10.336	153.59	40-140
*o-Terphenyl	16.331	1387755	6.729	5.998	89.13	40-140
*1-Chlorooctadecane	17.148	30136	6.729	0.163	2.43	40-140

B25071795 - B25071795-006B

Batch ID: 202161



EPH ALIPHATICS (FID) ANALYSIS REPORT

Sample Name: B25071795-006B ;0808HP2 , \$HC-ALI-GRP-S, (2,5)
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2080825_B\0808HP2.0089.RAW
Date & Time Acquired: 8/11/2025 10:03:36 AM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\L3_EPH-080889-UM-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AL250414UM.CAL
Sample Weight: 30.52 Dilution: 10 S.A.: 1

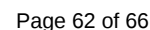
Mean RF for C9 to C18 Aliphatic Hydrocarbons: 26229.834
Mean RF for C19 to C36 Aliphatic Hydrocarbons: 27027.953
Mean RF for Total Extractable Hydrocarbons: 26685.904
Rt range for Diesel Range Organics: 8.379999 to 19.997
Rt range for C9 to C18 Aliphatic Hydrocarbons: 6.6470003 to 16.221
Rt range for C19 to C36 Aliphatic Hydrocarbons: 16.246 to 23.051

SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	
*1-Chloro-octadecane	17.143	494131	6.553	6.559	100.09	-

DRO Area: 70775816 DRO Amount: 868.99725
TEH Area: 77270350 TEH Amount: 948.7383

Aliphatic Hydrocarbon Areas and Amounts:
C9-C18 Area: 70285080 C9-C18 Amount: 877.9769
C19-C36 Area: 5369050.5 C19-C36 Amount: 65.08783

Batch ID: 202161

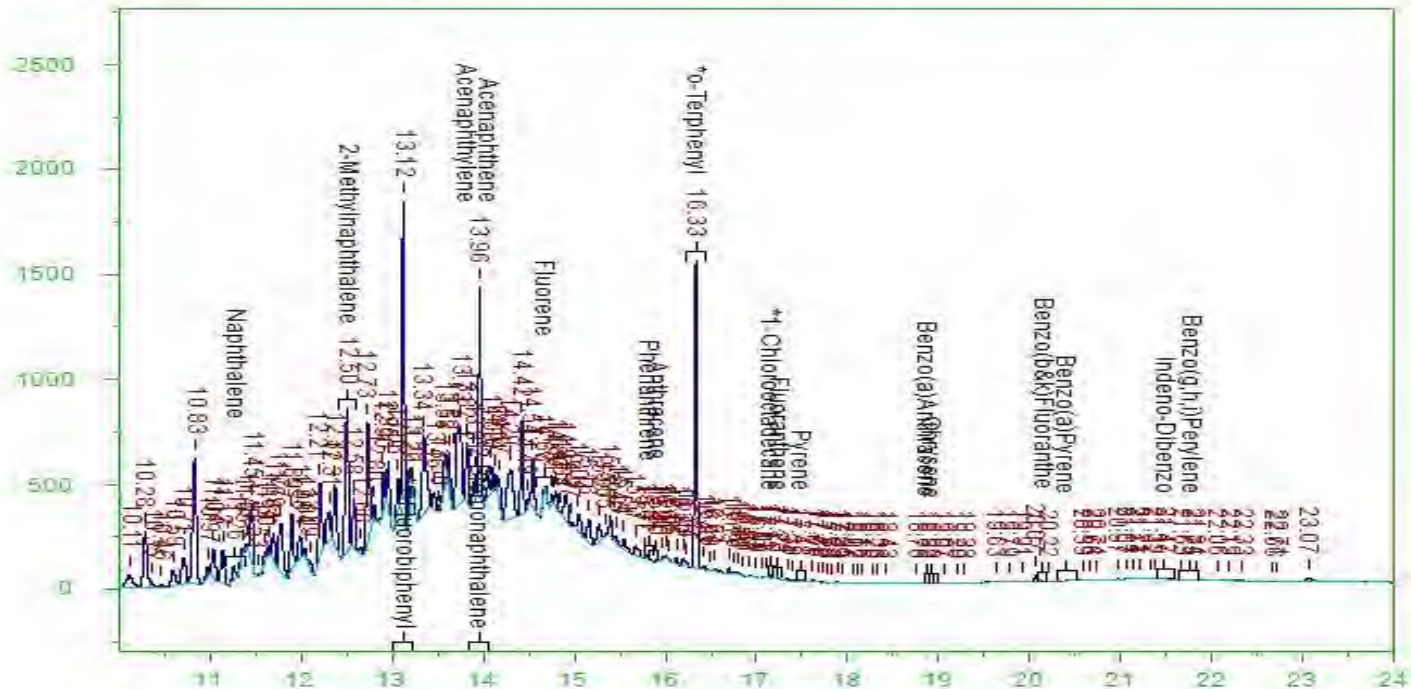


B25071795 - B25071795-006B

Batch ID: 202161

G:\org\HP2\DAT\HP2080825_B\0808HP2.0033.RAW

B25071795-006B ;0808HP2 ; \$HC-ARO-GRP-S



EPH AROMATICS TARGET VALUES (FID) ANALYSIS REPORT

Sample Name: B25071795-006B ;0808HP2 , \$HC-ARO-GRP-S,
Raw File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\DAT\HP2080825_B\0808HP2.0033.RAW
Date & Time Acquired: 8/9/2025 10:23:44 AM
Method File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\METHODS\RS_EPH-UMA-L%.MET
Calibration File: \\BLFLE\ANALYTICALDATA\ORGANICS\ORG\HP2\CALS\MA-EPH_AR250421UMA.CAL
Sample Weight: 30.52 Dilution: 2 S.A.: 1

TARGET ANALYTES	RT	CAL RRT	RRT	AREA	AMOUNT	FLAG
Naphthalene	11.259	2.670	2.699	167760	0.386	
2-Methylnaphthalene	12.499	1.440	1.460	1784331	4.104	
Acenaphthylene	13.818	0.170	0.140	583467	1.311	
Acenaphthene	0.000	0.000	0.000	0	0.066	U
Fluorene	14.670	-0.720	-0.712	55841	0.124	
Phenanthrene	15.812	-1.860	-1.854	34175	0.076	
Anthracene	15.896	-1.920	-1.938	21834	0.048	J
Fluoranthene	17.227	-3.270	-3.269	21113	0.046	J
Pyrene	17.482	-3.530	-3.523	24064	0.052	J
Benzo(a)Anthracene	18.880	18.880	18.880	4348	0.066	U
Chrysene	18.930	18.930	18.930	720	0.066	U
Benzo(b&k)Fluoranthene	0.000	0.000	0.000	0	0.131	U
Benzo(a)Pyrene	0.000	0.000	0.000	0	0.066	U
Indeno-Dibenzo	21.469	21.469	21.469	16782	0.131	U
Benzo(g,h,i)Perylene	21.748	21.748	21.748	2465	0.066	U
SURROGATE COMPOUND	RT	AREA	ACTUAL	MEASURED	%REC	QC LIMITS
*2-Fluorobiphenyl	13.118	2756849	6.553	6.910	105.44	40-140
*2-Bromonaphthalene	13.958	1740341	6.553	6.182	94.34	40-140
*o-Terphenyl	16.333	2885596	6.553	6.072	92.66	40-140
*1-Chlorooctadecane	17.146	26221	6.553	0.069	1.06	40-140



Work Order Receipt Checklist

Marketing Specialties

B25071795

Login completed by: Crystal M. Jones

Date Received: 7/21/2025

Reviewed by: wjohnson

Received by: ET

Reviewed Date: 7/24/2025

Carrier name: Hand Deliver

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☒	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	1.0°C On Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☒

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT  	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY 	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090



Trust our People. Trust our Data.

Chain of Custody & Analytical Request Record

www.energylab.com

Page _____ of _____

Account Information (Billing Information)				Report Information (If different than Account Information)				Comments	
Company/Name Markedby Specialties				Company/Name					
Contact Kirk Brandfield				Contact					
Phone 408 245 6117				Phone					
Mailing Address 420 N. 16 St				Mailing Address					
City, State, Zip Billings, MT 59101				City, State, Zip					
Email Kirk@markedby.com				Email					
Receive Invoice ☐ Hard Copy ☒ Email				Special Report ☐ Hard Copy ☐ Email					
Purchase Order 196347				Bottle Order 196347					
Quote				Special Report/Formats: ☐ LEVEL IV ☐ NELAC ☐ EDD/EDT (contact laboratory) ☐ Other					

Project Information			Matrix Codes			Analysis Requested			See Attached		
Project Name, PWSID, Permit, etc. MT Air Controls			A - Air								
Sampler Name Tyrol School			W - Water								
Sampler Phone 605 4402558			S - Solids								
EPA/State Compliance ☒ Yes ☐ No			V - Vegetation								
Sample Origin State MT			B - Bioassay								
URANIUM MINING CLIENTS MUST indicate sample type			O - Oil								
☐ Unprocessed Ore			DW - Drinking Water								
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING											
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)											

Sample Identification (Name, Location, Interval, etc.)		Date	Time	Collection	Number of Containers	Matrix (See Codes Above)
1	T7W	7/21/25	10:10 AM		1	S
2	T7E	7/21/25	10:15 AM		1	S
3	T2S	7/21/25	9:50 AM		1	S
4	T2N	7/21/25	9:45 AM		1	S
5	T3S	7/21/25	10:00 AM		1	S
6	T3N	7/21/25	10:05		1	S
7						
8						
9						

Custody Record MUST be signed									
Relinquished by (print) Tyrol School	Signature [Signature]	Date/Time 7/21/25 10:30	Relinquished by (print) ELI Z. Eske	Signature [Signature]	Date/Time 7/21/25 10:150	Received by (print) ELI Z. Eske	Signature [Signature]	Date/Time 7/21/25 10:150	Signature [Signature]
LABORATORY USE ONLY									
Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	Receipt Temp °C	Temp Blank Y N	On Ice Y N	Payment Type CC Cash Check	Amount \$	Receipt Number (cash/check only)

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling - See Instructions Page

ELI LAB ID Laboratory Use Only
375071795

ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were NOT used, please attach your preservative information with this COC.

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

Subcontractor Bids

Estimated Costs

GeoProbe Drilling

2901 1st Ave N Billings, MT 59101

Resource Technologies Inc.

Submitted to Cole Histon via email

9.3.2025

TASK	Unit Cost	Unit ID	Units	Total Cost
Project Management & Coordination				
Project Manager	\$155.00	hrs	1	\$ 155.00
Staff Scientist (DNRC Well Log Report)	\$130.00	hrs	1.5	\$ 195.00
Environmental Technician III (loading/unloading/decon)	\$108.00	hrs	2	\$ 216.00
Sub Total				\$ 566.00
Geoprobe Equipment & Operator				
GeoProbe w/Operator (per day)	\$1,900.00	day	3.5	\$ 6,650.00
Driller Helper (Tech II)	\$90.00	hrs	30	\$ 2,700.00
Sub Total				\$ 9,350.00
Materials, Tools, Equipment				
Liners 2.25" (Dual Tube)	\$7.50	each	150	\$ 1,125.00
PVC Riser - 2" Sch 40	\$6.50	foot	40	\$ 260.00
PVC Screen 0.010 slot	\$8.50	foot	60	\$ 510.00
PVC Well Tip	\$15.00	each	4	\$ 60.00
2" J-Plug	\$15.00	each	4	\$ 60.00
Well Monuments 8" Flushmount	\$100.00	each	4	\$ 400.00
4.25" Auger Plug	\$20.00	each	4	\$ 80.00
Silica Sand	\$20.00	bag	40	\$ 800.00
Bentonite Chips	\$15.00	bag	20	\$ 300.00
Concrete	\$8.00	bag	16	\$ 128.00
Pressure Washer	\$100.00	day	1	\$ 100.00
Demo Saw	\$100.00	day	1	\$ 100.00
Well Development Pump	\$150.00	day	1	\$ 150.00
Drums, 55-gallon, Steel, Open-Top (IDW Containers)	\$150.00	each	6	\$ 900.00
Sub Total				\$ 4,973.00

RTI will coordinate all site access and complete all necessary utility locates. Any additional footage or supplies will be billed on a time and materials basis at the above rates. Any additional field work will be agreed upon by both parties prior to inception. RTI will handle all IDW disposal.

Total Estimated Cost \$ 14,889.00

September 8, 2025

Attn: Meredith Pepka
Resource Technologies, Inc.
1050 East Main Street, Suite 4
Bozeman, MT 59715

RE: Project: WD-250908
Environmental Soil Borings and Well Installation
2109 1st Ave North
Billings, MT 59101

Dear Ms. Pepka:

Wiley Drilling has developed this Proposal for Resource Technologies, Inc. (RTI) to provide Subsurface Exploration Services for the above-mentioned project. This Proposal was developed based on information provided by RTI which included a site location map and general scope of work. The purpose of this project is to provide drilling services for an environmental investigation.

Scope of Services

Wiley has developed this proposal to include scope, costs and assumptions based on the information provided by RTI. The Scope of Services is broken down into the tasks listed below.

Task 1: Project Preparation and Mobilization

Wiley will call in utility locations in accordance with Montana State law within 3 days prior to the start of drilling. RTI will provide Wiley with a site map identifying the borehole locations to be used to call in locates. Wiley has assumed that no private utility locate services are required for this project. Wiley will mobilize the drill rig, materials, and crew from their drill shop in Montana City, MT to the project site.

Task 2: Soil Boring Installation

The soil borings will be advanced using a truck mounted Geoprobe 3100 drill rig with DT22 direct push drilling methods. Twenty (20) soil borings will be advanced to twenty (25) feet below ground surface (bgs) to collect environmental data. For costing purposes, we have assumed that each borehole will be advanced to 25 feet bgs totaling 500 feet of drilling.

Task 3: Groundwater Monitoring Well Installation

Four (4) soil borings will be completed as groundwater monitoring wells. The monitoring wells will be installed with DT37 direct push drilling methods. It is our understanding that the well material will consist of 2-inch diameter, sch. 40, PVC, flush threaded well casing and 15-feet of 0.020" factory milled well screen. The bottom of the well will be completed with a well cap and a J-plug will be installed on the top of the well. The annulus of the boreholes will be backfilled with 10/20 filter sand from the bottom of the borehole to approximately 1-foot above the top of the screened interval. Medium bentonite chips will be placed on top of the sand to 1-foot bgs. The well will be completed at surface with an 8-inch diameter flush mounted well vault set in a concrete pad. Well development and sampling will be the responsibility of others. Wiley will submit well logs to the state upon completion.

Cost Estimate and Assumptions

The not to exceed time and materials costs estimate for this project is **\$18,968.43**. A breakdown of these costs is provided in Table 1 attached to this Proposal. These costs are based on our project understanding, schedule, and the following assumptions:

- Wiley will call in public utility locations in accordance with Montana state law. Additional locate services are not included in this proposal.
- Permitting is the responsibility of others.
- Traffic control is the responsibility of others.
- Drill refusal may be reached due to gravel and cobbles.
- Wiley will have access to drill a minimum of 50-feet away from overhead power.
- Access to borehole locations for a truck mounted drill rig and support equipment is available.
- We will do our best to minimize impacts to curbs and lawns, however, any damage to landscaping associated with borehole access will be the responsibility of others.
- Drill cuttings will be backfilled in the borehole or spread on the ground surface at the Site. Wiley will not be responsible for the storage, waste characterization, or transportation of the drill cuttings.
- No decon of the drill tooling will be required between the soil borings.
- Work can be performed in Level-D Personal Protective Equipment including hard hat, safety toe boots, safety glasses, hearing protection, and hand protection.
- No air space monitoring is required.
- Drilling cost estimate assumes a 2-person crew.
- Any delays that are not the responsibility of Wiley will be charged to the project at a Standby Rate of \$260/hour.
- Any changes to the scope outlined in this proposal will require an updated cost estimate and proposal.

Schedule

Wiley will be available after January 1st, 2026. Wiley anticipates the work will be completed in 5 8-hour business days. Wiley will reach out to you to schedule this project upon receiving this signed Proposal.

Closing

We appreciate the opportunity to provide RTI this Proposal. Your authorization for Wiley to proceed in accordance with this Proposal can be issued by signing and returning this Proposal (Project: WD-250908).

AGREED TO:

CLIENT

TITLE

DATE

TABLE 1: COSTS ESTIMATE

Geoprobe 3100 Services	Quantity	Unit	Unit Price	Total
Project Setup/Mobilization				
Project Setup	1	Hour	\$ 120.00	\$ 120.00
Load/Unload	4	Hour	\$ 195.00	\$ 780.00
Mobilization	1	Lump Sum	\$ 1,500.00	\$ 1,500.00
Daily Mobilization	1	Lump Sum	\$ 206.25	\$ 206.25
De-Mobilization	1	Lump Sum	\$ 1,500.00	\$ 1,500.00
Total:				\$ 4,106.25
Drilling				
Direct Push (2-Man)	25	Hour	\$ 260.00	\$ 6,500.00
Setting Wells	6	Each	\$ 260.00	\$ 1,560.00
Surface Completion	2	Each	\$ 195.00	\$ 390.00
Asphalt Cutting	2	Hour	\$ 195.00	\$ 390.00
Asphalt Patching	3	Hour	\$ 80.00	\$ 240.00
Total:				\$ 9,080.00
Support Equipment				
Support Truck	4	Day	\$ 100.00	\$ 400.00
Concrete Saw	4	Day	\$ 60.00	\$ 240.00
Total:				\$ 640.00
Materials				
Bentonite	17	Each	\$ 10.50	\$ 178.50
Cement	3	Each	\$ 10.00	\$ 30.00
3.75 Expendable Point	4	Each	\$ 39.04	\$ 156.16
8x8 Manholes	4	Each	\$ 96.00	\$ 384.00
2" PVC - 5' Length	8	Each	\$ 41.94	\$ 335.52
2" PVC Screen - 5' Length	12	Each	\$ 50.34	\$ 604.08
DT22 Sample Liners (5 Core)	100	Each	\$ 6.00	\$ 600.00
Sand	10	Each	\$ 26.00	\$ 260.00
2" Top & Bottom Caps	4	Each	\$ 21.48	\$ 85.92
Total:				\$ 2,634.18
Hotel				
Operator	6	Days	\$ 150.00	\$ 900.00
Assistant	6	Days	\$ 150.00	\$ 900.00
Total:				\$ 1,800.00
Per Diem				
Operator	6	Days	\$ 59.00	\$ 354.00
Assistant	6	Days	\$ 59.00	\$ 354.00
Total:				\$ 708.00
Total Cost:				\$ 18,968.43



Olympus Technical Services, Inc.

August 28, 2025

Meredith Pepka, EIT
Resource Technologies, Inc.
Via E-Mail to: mail@rtimt.com

Re: **Proposal for DPT Soil Borings and Monitoring Well Installations
Air Controls
2109 1st Avenue North
Billings, MT
Olympus Work Order No. C3272**

Dear Ms. Pepka,

Olympus Technical Services, Inc. (Olympus) is pleased to present this proposal to Resource Technologies, Inc. (RTI) to use Direct Push Technology (DPT) to advance soil borings and install monitoring wells at the above-referenced site (Site). We understand that the scope of work (SOW) will consist of the following tasks:

- Project management including project setup, public utility locate scheduling, project coordination with RTI, and development of a health and safety plan;
- Advance 20 soil borings within gravel areas to an estimated depth of 25 feet below ground surface (bgs), for a total of approximately 500 feet, or practical drilling refusal. Soil boring locations will be chosen by RTI;
- Soil samples will be collected continuously in 5-foot intervals. Soil samples will be collected using acetate sample sleeves with a 2 1/4-inch diameter, Geoprobe® MC-5 sampling system;
- Install up to 4 groundwater monitoring wells. Wells will be constructed with 2-inch-diameter, Schedule 40 PVC materials, including 15 feet of 0.020 slotted screen, 10 feet of blank, solid riser, screen points, well plugs, and 8-inch-diameter flush mount monuments. The wells will be backfilled with 10/20 Colorado Silica sand to approximately 2-foot above the screened interval, bentonite pellets to approximately 1-foot bgs, and a concrete collar encasing the well monument;
- Well reports will be submitted by Olympus to the Montana Bureau of Mines and Geology Groundwater Information Center. Copies will be provided to RTI;
- Borings will be backfilled with bentonite and the surface will be patch to match preexisting conditions; and,
- Decontamination rinsate and soil cuttings will be containerized.

We propose to complete the soil borings with our tracked, Geoprobe® 7822DT direct push drill rig. The drill rig will be operated by a 2-person crew mobilized daily out of Billings, Montana. Olympus will conduct daily health and safety meetings related to our operations.

The estimate is based on the following assumptions:

6809 King Ave West Unit F • Billings, MT 59106
(406) 245-3554 • Fax (406) 245-3555 • E-mail: Billings@olytech.com

- Work will be completed in 4-5 workdays, including mobilization;
- A workday is considered 10 hours;
- Subsurface lithology is suitable for use of the DPT drill rig;
- The proposed boring locations are accessible and clear of potential overhead and underground obstructions. A public utility locate ticket will be prepared by RTI and a copy will be provided to Olympus at least three days prior to the drilling date. Olympus will prepare a duplicate utility locate notification ticket upon receipt of the locate ticket from RTI. Private locates are the responsibility of RTI, if necessary;
- Olympus will not be responsible for screening or sampling soil beyond the provided acetate sleeves and will not be collecting soil or groundwater samples for RTI. RTI has indicated a scientist will be on site to collect samples and log borings;
- Non-disposable drill tooling will be decontaminated between borings by washing with Alconox® soap, or similar, and rinsing with distilled water; and,
- Olympus will not be responsible for disposal of investigation-derived waste (IDW), including soil, decontamination water, and other related materials, if required.

We propose to complete the above scope of work on a unit cost basis in accordance with the attached cost schedule. The cost estimate in this proposal is based on representative unit rates for various categories of personnel and expected project expenses. Our invoices will reflect actual charges based on the applicable schedules and may differ from the cost estimate in this proposal. Should you authorize these Services, you will be invoiced monthly, on a unit cost basis in accordance with this cost estimate. Should unforeseen circumstances arise and warrant further work and additional costs, Olympus will contact you prior to further efforts. Any changes to our agreement must be mutually agreed and in writing.

Our current General Services Agreement shall govern this Task Order. Please acknowledge your acceptance of these Services by having this Task Order properly executed by a person authorized to purchase these Services and returning a signed copy to us. We appreciate the opportunity to offer this proposal and look forward to working with you on this project. Please contact me should you have any questions regarding this proposal.

Sincerely,



Ethan J. Perro, P.G.
Project Geologist

Attachment: Cost Estimate

Approved for RTI by:

Signature

Date

Name/Title – Please Print

Olympus Technical Services, Inc. Cost Estimate			Date: 2/3/2025	
Client: TT				
Project Name: MDT Maintenance Facility, Ingomar				
Olympus Project/Proposal No.: D6136				
			*ODC	14%
Mobilization	Quantity	Unit	Rate	Cost
Drill Rig	4	Ea	\$315.00	\$1,260.00
Mobilization Subtotal:				\$1,260.00
Drilling	Quantity	Unit	Rate	Cost
Soil Borings	500	Ft	\$23.80	\$11,900.00
Monitoring Well Installation	100	Ft	\$49.00	\$4,900.00
Standby		Hr	\$250.00	
Standby (OT)		Hr	\$300.00	
Drilling Subtotal:				\$16,800.00
Comments/Notes:				
1. Coordination, staff scheduling, creating HASP			Subtotal	\$18,060.00
2. Mobilization of 2-person crew/equipment (4 trips)				
3. 20 brgs to 25 ft bgs (500 ft), 4 wells to 25 ft bgs (100 ft)			Contingency	0.0% \$0.00
4. Backfill borings with bentonite				
5. IDW not included			GRAND TOTAL	\$18,060.00