FARALLON CONSULTING

January 26, 2024

Frank Winslow
Washington State Department of Ecology
Headquarters Section
300 Desmond Drive Southeast
Lacey, Washington 98503

RE: GROUNDWATER MONITORING SUMMARY
CENTRALIA FACILITY - FORMER ASPHALT BATCH PLANT
2001 JOHNSON ROAD
CENTRALIA, WASHINGTON
FARALLON PN: 525-031

Dear Frank Winslow:

Farallon Consulting, L.L.C. (Farallon) has prepared this letter on behalf of Lakeside Industries, Inc. (Lakeside Industries) to document the results of the quarterly compliance groundwater monitoring events conducted between May and November 2023 at the former asphalt batch plant on the property at 2001 Johnson Road in Centralia, Washington (herein referred to as the Former Asphalt Batch Plant) (Figure 1). The Former Asphalt Batch Plant is on the south-central portion of Lewis County Parcel No. 00977200100, which totals 81.38 acres of land (herein referred to as the Property) (Figure 1). Figure 2 shows the general layout of the Property and Figure 3 shows the historical operational areas for the Former Asphalt Batch Plant.

The Site, as defined under the Washington State Model Toxics Control Act Cleanup Regulation (MTCA) and its implementing regulations in Chapter 173-340 of the Washington Administrative Code, comprises the area where hazardous substances originating on or from the Former Asphalt Batch Plant have come to be located at concentrations exceeding applicable cleanup levels. The Site is enrolled in the Washington State Department of Ecology (Ecology) Expedited Voluntary Cleanup Program (VCP) and assigned VCP Project ID. No. XS0014.

A permanent cleanup action was completed at the Former Asphalt Batch Plant in April and May 2019 and included excavation and off-property disposal of petroleum-contaminated soil (PCS) to the maximum extent practicable to protect human health and the environment, including future impacts to groundwater. A localized area of PCS on the western portion of

the excavation at a depth of approximately 20 to 24 feet below ground surface was not excavated due to disproportionate costs associated with removing a significant volume of overburden and complex dewatering requirements to access a small volume of PCS remaining in-place within the shallow groundwater-bearing zone.

Four groundwater monitoring wells (FMW-01 through FMW-04) were installed at the Former Asphalt Batch Plant following completion of the cleanup action (Figure 3). Farallon performed five groundwater monitoring events between July 2019 and April 2022 to evaluate post-excavation groundwater conditions and assess monitored natural attenuation of residual dissolved-phase petroleum hydrocarbons remaining in shallow groundwater. Based on the results from groundwater monitoring events, the source removal excavation was successful in reducing residual dissolved-phase petroleum hydrocarbons in groundwater to concentrations less than MTCA cleanup levels.

Farallon submitted a Cleanup Action Report[1] (CAR) to document the permanent cleanup action completed at the Former Asphalt Batch Plant and to request that Ecology issue a No Further Action likely determination. During the Expedited VCP intake meeting on April 24, 2023, Ecology requested three additional consecutive quarterly groundwater monitoring events to demonstrate compliance with MTCA Method A cleanup levels for groundwater.

This report includes a brief description of the Former Asphalt Batch Plant, a summary of previous investigations and the cleanup action, a summary of the 2023 groundwater monitoring events and results, and a request for No Further Action determination for the Former Asphalt Batch Plant.

BACKGROUND

This section includes a description of the Property, a summary of the current and historical uses of the Former Asphalt Batch Plant, and a summary of the 2018 subsurface investigation and 2019 cleanup action.

PROPERTY DESCRIPTION

The Property consists of Lewis County Parcel No. 00977200100, which totals 81.38 acres of land (Figure 2). Rail lines, which are owned by the Puget Sound & Pacific Railroad, trend southeast to northwest and split the Property. Historical operations on the eastern side of

[1] Farallon. 2023. *Cleanup Action Report, Former Asphalt Batch Plant, 2001 Johnson Road, Centralia, Washington*. Prepared for Lakeside Industries, Inc. February 28.

the rail lines consisted of the Former Asphalt Batch Plant, a concrete batch plant, a sand and gravel mine, and a gravel crusher (Figure 3). A distinct and separate site was identified at the Property proximate to the former concrete batch plant. A permanent cleanup action was completed at the former concrete batch plant and the site was entered into the Expedited VCP and assigned VCP Project ID No. XS0015. Ecology issued a No Further Action determination for the former concrete batch plant on May 3, 2023.

The area of the Former Asphalt Batch Plant consists of approximately 1.3 acres of land within the east-central portion of the Property (Figure 2). Lakeside Industries currently uses the eastern side of the rail lines, including the Former Asphalt Batch Plant, for storage and staging of equipment. The current operational asphalt batch plant is on the western side of the rail lines (Figure 2).

CURRENT AND HISTORICAL USES OF THE FORMER ASPHALT BATCH PLANT

According to the information currently available to Lakeside Industries, the Former Asphalt Batch Plant began operating on the eastern side of the rail lines in the 1950s. In 2008, Lakeside Industries closed the eastern asphalt batch plant operations and constructed a new asphalt batch plant on the western side of the rail lines, which is currently in operation. The western portion of the Property currently is operated as an asphalt batch plant with aggregate storage and associated structures. The eastern portion of the Property, including the area of the Former Asphalt Batch Plant, currently is used for storage and staging of paving equipment. The Former Asphalt Batch Plant was located adjacent to a former sand and gravel mining area. Sand and gravel mining activities created a depression, resulting in a large pond (Figure 2). The pond area currently is being backfilled with imported fill material in accordance with the *Mitigated Determination of Nonsignificance* dated May 14, 2010, prepared by the City of Centralia.[2]

SUBSURFACE INVESTIGATION AND CLEANUP ACTION

A subsurface investigation was conducted at the Former Asphalt Batch Plant in June 2018 to evaluate constituents of potential concern in soil from suspected releases related to historical operations at the Former Asphalt Batch Plant. The subsurface investigation included collection of soil samples that were analyzed for total petroleum hydrocarbons as

[2] City of Centralia Community Development. 2010. Mitigated Determination of Nonsignificance. Lakeside Industries, SEPA#SEPA2009-2, Case #SPR2009-2/SL2009-3. May 14.

gasoline-range organics (GRO), as diesel-range organics (DRO), and as oil-range organics (ORO); volatile organic compounds; polycyclic aromatic hydrocarbons; and metals.

Constituents of concern (COCs) are defined as hazardous substances that have been detected at concentrations exceeding MTCA cleanup levels. The results of the subsurface investigation conducted by Farallon confirmed DRO and ORO as the COCs for soil at the Former Asphalt Batch Plant. Sample pre-screening or hydrocarbon identification using Method NWTPH-HCID were not conducted to determine the type of petroleum products present in the soil samples prior to laboratory analysis. Therefore, the laboratory analytical results are reported as DRO and ORO fractions, which are summed to give a combined DRO and ORO concentration in accordance with *Determining Compliance with Method A Cleanup Levels for Diesel and Heavy Oil, Implementation Memorandum #4* dated June 17, 2004, prepared by Ecology.[3] Combined concentrations of DRO and ORO exceeded the MTCA Method A cleanup levels in one localized area associated with the Former Asphalt Batch Plant. The source of DRO and ORO is confirmed to be from prior releases during historical operations at the Former Asphalt Batch Plant.

Sufficient data were obtained during the subsurface investigation to proceed with selection, design, and implementation of a permanent cleanup action for the Former Asphalt Batch Plant. The permanent cleanup action was performed in April and May 2019 and included excavation and off-Property disposal of PCS to the maximum extent practicable to protect human health and the environment, including future impacts to groundwater. A localized area of PCS on the western portion of the excavation at a depth of approximately 20 to 24 feet below ground surface was not excavated due to disproportionate costs associated with removing a significant volume of overburden and complex dewatering requirements to access a small volume of PCS remaining in-place within the shallow groundwater-bearing zone. In addition, based on the results from the cleanup action and post-excavation groundwater monitoring, the potential exposure pathways related to the small volume of PCS remaining in-place, including direct contact and soil to groundwater, are incomplete.

Four groundwater monitoring wells (FMW-01 through FMW-04) were installed at the Former Asphalt Batch Plant following completion of the cleanup action (Figure 3). Farallon performed five groundwater monitoring events between July 2019 and April 2022 to evaluate post-excavation groundwater conditions and assess monitored natural attenuation

[3] Ecology. 2004. *Determining Compliance with Method A Cleanup Levels for Diesel and Heavy Oil, Implementation Memorandum #4.* June 17.

of residual dissolved-phase petroleum hydrocarbons remaining in shallow groundwater. Based on the results from the groundwater monitoring events, the source removal excavation was successful in reducing residual dissolved-phase petroleum hydrocarbons in groundwater to concentrations less than MTCA cleanup levels.

GROUNDWATER MONITORING EVENTS

Pursuant to Ecology's request, three additional consecutive quarterly groundwater monitoring events were conducted at the Former Asphalt Batch Plant in May, August, and November 2023. Groundwater monitoring events included measuring depth to groundwater and collecting groundwater samples from monitoring wells FMW-01 through FMW-04.

The depth to groundwater was measured in each monitoring well prior to purging (Table 1). The monitoring wells were opened, and groundwater levels were permitted to equilibrate with atmospheric pressure before groundwater-level measurements were obtained. Prior to sampling, groundwater was purged from the monitoring wells in accordance with U.S. Environmental Protection Agency low-flow sampling protocols.[4] The well purging and sampling were performed using a bladder pump and dedicated tubing at flow rates ranging from 120 to 200 milliliters per minute. The tubing intake was placed at the approximate middle portion of the water column in each monitoring well. Water quality was monitored during purging using a multiparameter water-quality meter equipped with a flow-through cell. The water-quality parameters monitored and recorded included temperature, pH, specific conductance, oxidation-reduction potential, turbidity, and dissolved oxygen. Following purging, groundwater samples were collected directly from the pump outlet tubing upstream of the flow-through cell and placed into laboratory-prepared sample containers. The sample containers were placed in an iced cooler and transported under standard chain-of-custody protocols to Apex Laboratories, LLC of Tigard, Oregon for laboratory analysis.

[4] U.S. Environmental Protection Agency. 1996. *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures*. EPA Groundwater Issue /540/S-95/504. April.

Groundwater samples were submitted for laboratory analysis of DRO and ORO by Northwest Method NWTPH-Dx, both with and without silica gel cleanup in accordance with Ecology's Guidance for Silica Gel Cleanup in Washington State (Silica Gel Cleanup Guidance).[5]

RESULTS

A summary of the analytical results for groundwater sampling conducted by Farallon between May and November 2023 at the Former Asphalt Batch Plant is presented below. Table 1 presents a summary of the groundwater elevation data, and groundwater elevation contour maps are included as Figures 4 through 6. Groundwater analytical results are shown on Figure 7 and in Table 2. The laboratory analytical reports for groundwater samples are provided in Attachment A.

GROUNDWATER ELEVATION

During the 2023 groundwater monitoring events, groundwater was encountered at elevations ranging from approximately 154 to 163 feet North American Vertical Datum of 1988. Based on groundwater elevations calculated using synoptic measurements during each groundwater monitoring event, the interpreted groundwater flow direction fluctuated between northeast and southeast during the monitoring events. Groundwater elevations from the 2023 groundwater monitoring events are presented in Table 1, and groundwater elevation contours are illustrated on Figures 4 through 6.

GROUNDWATER ANALYTICAL RESULTS

Combined DRO and ORO either were not detected at the laboratory practical quantitation limit or were detected at concentrations less than MTCA Method A cleanup level for all groundwater samples collected during the 2023 groundwater monitoring events (Table 2; Figure 7).

Combined DRO and ORO were detected at concentrations less than the MTCA Method A cleanup levels in groundwater samples analyzed without silica gel cleanup. Combined DRO and ORO were not detected at the laboratory practical quantitation limit in groundwater samples analyzed with silica gel cleanup, with the exception of low-level detections of DRO that the laboratory estimated were present in groundwater samples collected from monitoring well FMW-04 during the May and August 2023 groundwater monitoring events. Based on these results, the residual detections of petroleum hydrocarbons are polar

[5] Ecology. 2023. *Guidance for Silica Gel Cleanup in Washington State*. Publication No. 22-09-059. November.

organics, which are either the result of weathered petroleum hydrocarbons or naturally occurring organics. Consistent with Ecology's Silica Gel Cleanup Guidance, it can be concluded that DRO and ORO are not present at concentrations exceeding MTCA Method A cleanup levels and the low-level detections identified during the 2023 groundwater monitoring events are the result of organic interference.

CONCLUSION AND REQUEST FOR NO FURTHER ACTION DETERMINATION

The additional groundwater analytical results from the samples collected at the request of Ecology between May and November 2023 further support the original conclusion based on the five groundwater monitoring events between July 2019 and April 2022, which is that the Site is in compliance with MTCA Method A cleanup levels for groundwater. All of the empirical groundwater data collected demonstrates that the residual soil contaminant concentrations are protective of the soil leaching to groundwater pathway. Based on these results, the source removal excavation was successful in reducing residual dissolved-phase petroleum hydrocarbons in groundwater to concentrations less than MTCA Method A cleanup levels.

The cleanup action was conducted as an independent remedial action in accordance with the requirements of MTCA. The purpose of the independent remedial action was to protect human health and the environment by eliminating risks posed by COCs identified at the Former Asphalt Batch Plant. The independent remedial action complied with the requirements for a cleanup action as defined in WAC 173-340-350 through 173-340-390 and the requirements of substantial equivalence under WAC 173-340-515 and 173-340-545.

Farallon, on behalf of Lakeside Industries, requests that Ecology issue a No Further Action determination for the Former Asphalt Batch Plant.

CLOSING

Please contact Pete Kingston or Sarah Snyder at (425) 295-0800 if you have questions or need additional information.

Sincerely,

Farallon Consulting, L.L.C.

Courtney van Stolk, L.G.
Project Geologist

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Courtney Ann Van Stolk

Sarah Snyder, L.G.
Senior Geologist

State of Washington 22008400 Licensed Geologist
Sarah E. Snyder

Pete Kingston, L.G.
Principal Geologist

State of Washington 2921 Licensed Geologist
Peter J. Kingston

Attachments: Figure 1, *Property Vicinity Map*
Figure 2, *Property Layout*
Figure 3, *Former Operational Areas*
Figure 4, *Groundwater Contours – May 4, 2023*
Figure 5, *Groundwater Contours – August 7, 2023*
Figure 6, *Groundwater Contours – November 6, 2023*
Figure 7, *Groundwater Analytical Results for DRO and ORO*
Table 1, *Groundwater Elevations*
Table 2, *Groundwater Analytical Results for Petroleum Hydrocarbons*
Attachment A, Laboratory Analytical Reports

cc: Karen Deal, Lakeside Industries, Inc.
William Joyce, Hillis Clark Martin & Peterson P.S.

CVS/SS:cm

LIMITATIONS

The conclusions contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location. The conclusions contained herein are subject to the following inherent limitations:

- Accuracy of Information. Farallon reviewed certain information used in this report/assessment from sources that were believed to be reliable. Farallon's conclusions, opinions, and recommendations are based in part on such information. Farallon's services did not include verification of its accuracy. Should the information upon which Farallon relied prove to be inaccurate, Farallon may revise its conclusions, opinions, and/or recommendations.
- Reconnaissance and/or Characterization. Farallon performed a reconnaissance and/or characterization of the Site that is the subject of this report/assessment to document current conditions. Farallon focused on areas deemed more likely to exhibit hazardous materials conditions. Contamination may exist in other areas of the Site that were not investigated or were inaccessible. Site activities beyond Farallon's control could change at any time after the completion of this report/assessment.

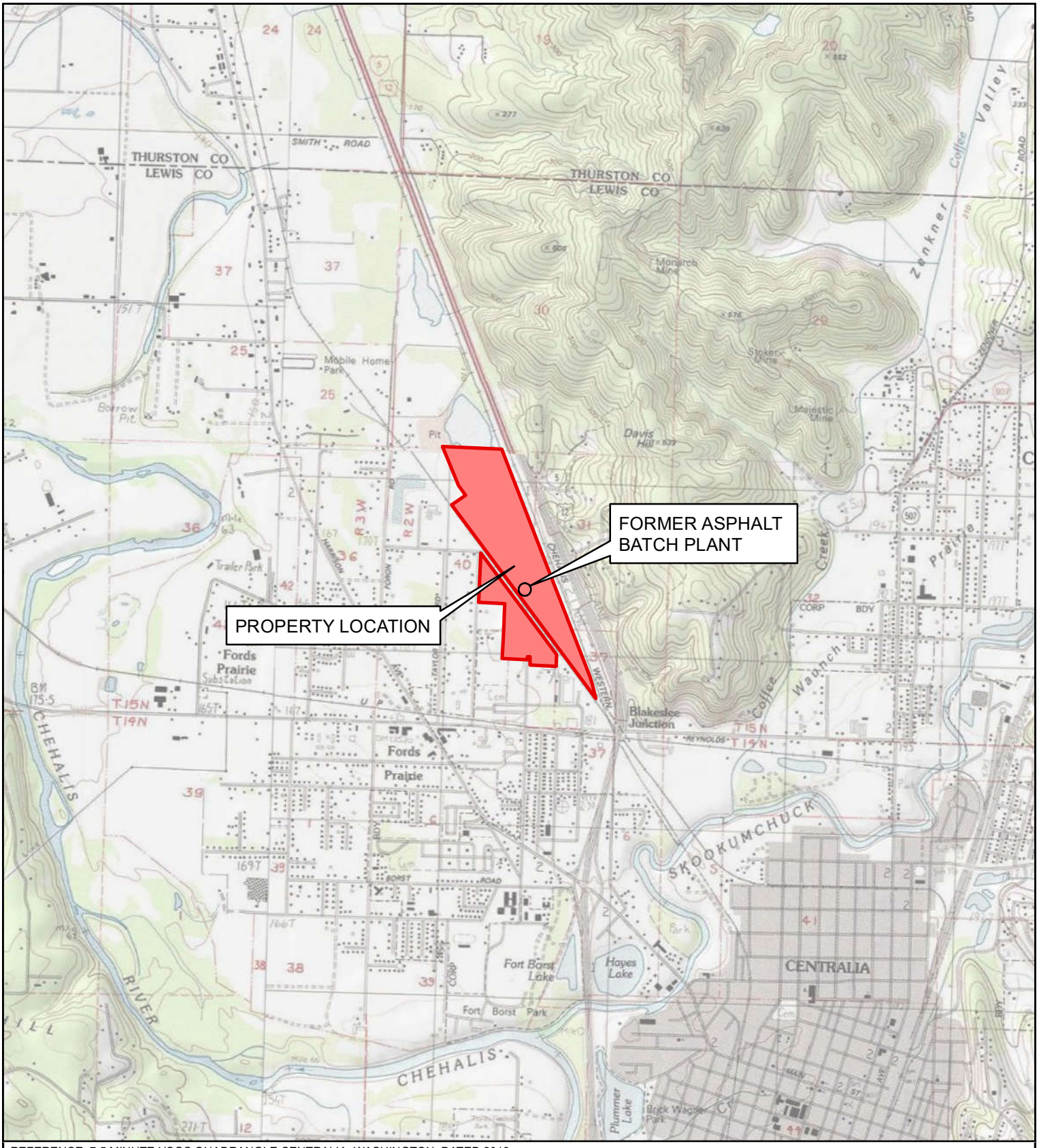
Farallon does not guarantee that the Site is free of hazardous or potentially hazardous substances or conditions, or that latent or undiscovered conditions will not become evident in the future. Farallon's observations, findings, and opinions are as of the date of the report.

This report/assessment has been prepared in accordance with the contract for services between Farallon and Lakeside Industries. No other warranties, representations, or certifications are made.

FIGURES

GROUNDWATER MONITORING SUMMARY
Centralia Facility - Former Asphalt Batch Plant
2001 Johnson Road
Centralia, Washington

Farallon PN: 525-031



REFERENCE: 7.5 MINUTE USGS QUADRANGLE CENTRALIA, WASHINGTON, DATED 2013

0 2,500
SCALE IN FEET

N

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FIGURE 1

PROPERTY VICINITY MAP
FORMER ASPHALT BATCH PLANT
2001 JOHNSON ROAD
CENTRALIA, WASHINGTON

FARALLON PN: 525-031

Drawn By: lmurock | Checked By: SS | Date: 12/2/2022 | Disc Reference:

Path: Q:\Projects\525 LakesideIndust\031 Centralia Facility\Mapfiles\009_CAR_2022\Figure-01_PropertyVicinity.mxd

LEGEND

- FORMER PROPERTY FEATURE
- PROPERTY BOUNDARY
- LEWIS COUNTY PARCEL BOUNDARY

N

0 400

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FIGURE 2

PROPERTY LAYOUT
FORMER ASPHALT BATCH PLANT
2001 JOHNSON ROAD
CENTRALIA, WASHINGTON

FARALLON PN: 525-031

Drawn By: aguse | Checked By: SS | Date: 1/10/2023 | Disc Reference:

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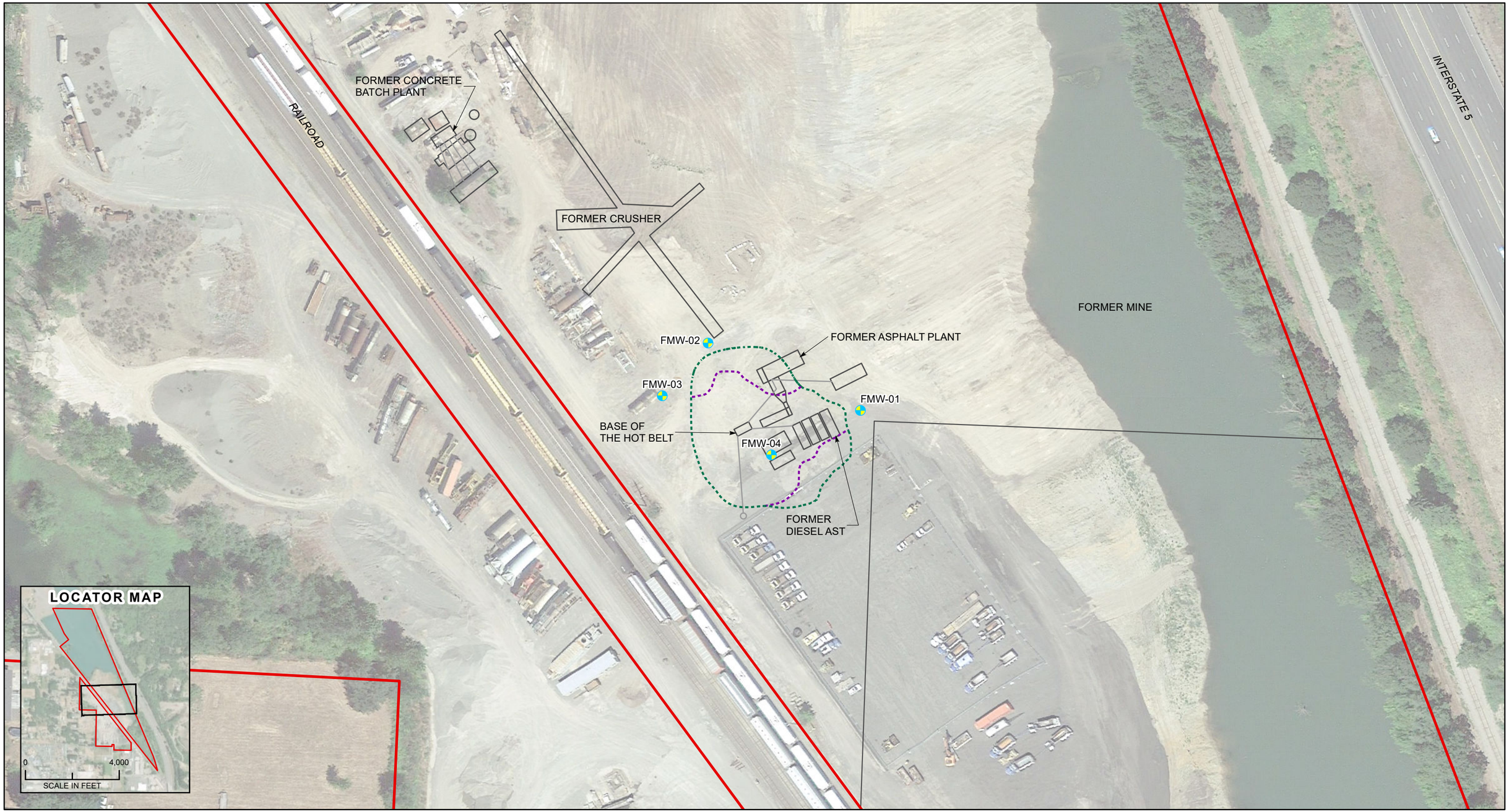

LEGEND

- MONITORING WELL (FARALLON, 2019)
- EXCAVATION BENCHING
- EXCAVATION EXTENT
- FORMER PROPERTY FEATURE
- PROPERTY BOUNDARY
- LEWIS COUNTY PARCEL BOUNDARY
- AST = ABOVEGROUND STORAGE TANK

0 50 100
SCALE IN FEET

N

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FIGURE 3

FORMER OPERATIONAL AREAS
FORMER ASPHALT BATCH PLANT
2001 JOHNSON ROAD
CENTRALIA, WASHINGTON

FARALLON PN: 525-031

Drawn By: aguse | Checked By: SS | Date: 1/11/2023 | Disc Reference:

Document Path: Q:\Projects\525 LakesideIndust\031 Centralia Facility\Mapfiles\009_CAR_2022\Figure-03_PropertyPlan.mxd

FORMER CRUSHER

163.00

FMW-02
(163.15)

FMW-03
[162.58]

162.00

FORMER
ASPHALT PLANT

FMW-01
(161.23)

BASE OF
THE HOT BELT

FORMER
DIESEL AST

162.00

FMW-04
(163.34)

163.00

N

0 30
SCALE IN FEET

LOCATOR MAP

0 4,000
SCALE IN FEET

LEGEND

- MONITORING WELL (FARALLON, 2019)
- EXCAVATION BENCHING
- EXCAVATION EXTENT
- FORMER PROPERTY FEATURE
- PROPERTY BOUNDARY
- LEWIS COUNTY PARCEL BOUNDARY
- (163.34) GROUNDWATER ELEVATION (5/4/2023) MEASURED IN FEET REFERENCED TO NORTH AMERICAL VERTICAL DATUM OF 1988 (NAVD88)
- [163.34] ELEVATION NOT USED IN CONTOURING
- 163.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

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FIGURE 4

GROUNDWATER CONTOURS
MAY 4, 2023
FORMER ASPHALT BATCH PLANT
2001 JOHNSON ROAD
CENTRALIA, WASHINGTON

FARALLON PN: 525-031

Drawn By: chartman | Checked By: CVS | Date: 12/15/2023 | Disc Reference:

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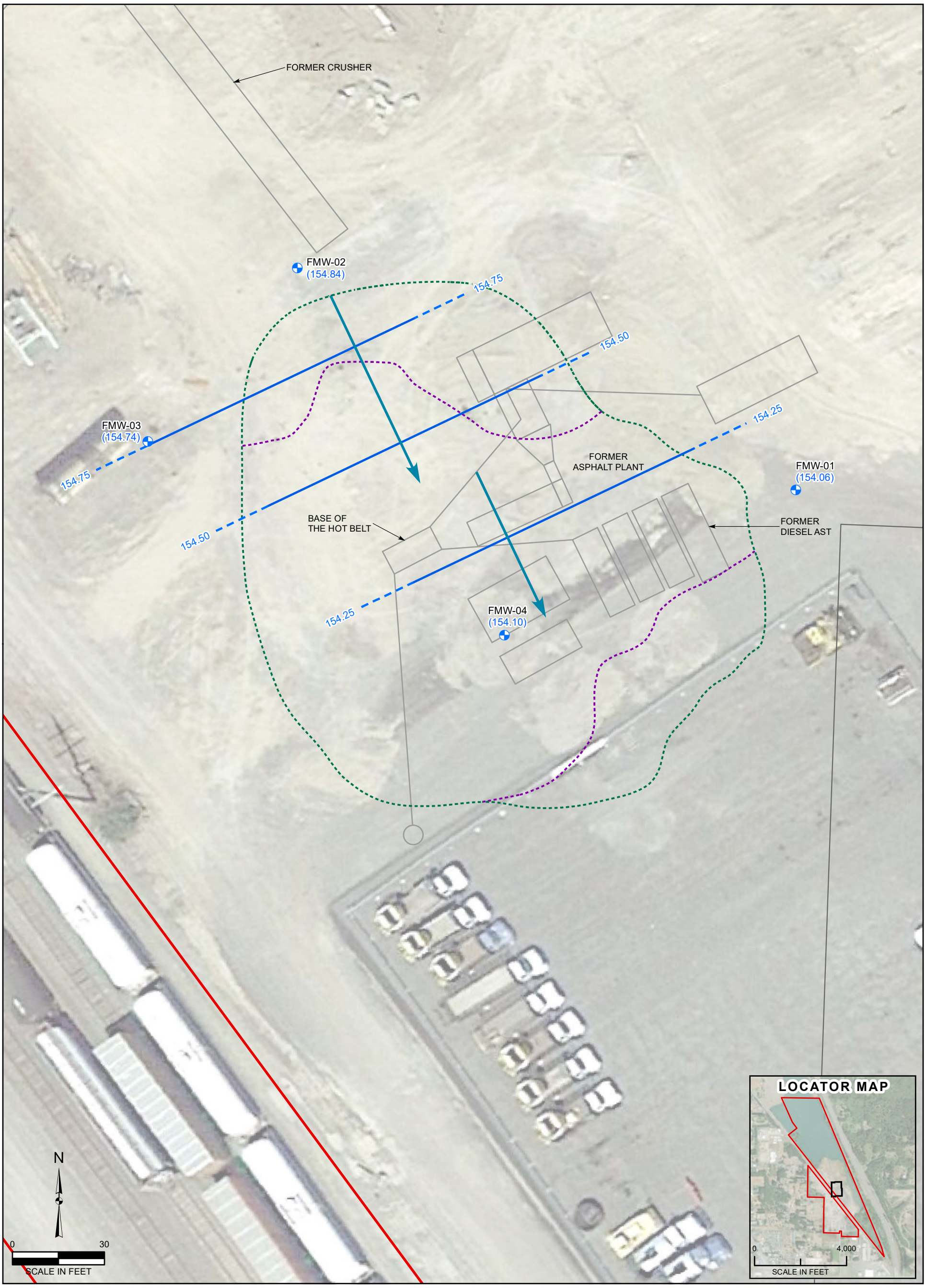

LEGEND

- MONITORING WELL (FARALLON, 2019)
- EXCAVATION BENCHING
- EXCAVATION EXTENT
- FORMER PROPERTY FEATURE
- PROPERTY BOUNDARY
- LEWIS COUNTY PARCEL BOUNDARY
- (154.84) GROUNDWATER ELEVATION (8/7/2023) MEASURED IN FEET REFERENCED TO NORTH AMERICAL VERTICAL DATUM OF 1988 (NAVD88)
- 154.75 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

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FIGURE 5

GROUNDWATER CONTOURS
AUGUST 7, 2023
FORMER ASPHALT BATCH PLANT
2001 JOHNSON ROAD
CENTRALIA, WASHINGTON

FARALLON PN: 525-031

Drawn By: aguse | Checked By: CVS | Date: 12/1/2023 | Disc Reference:

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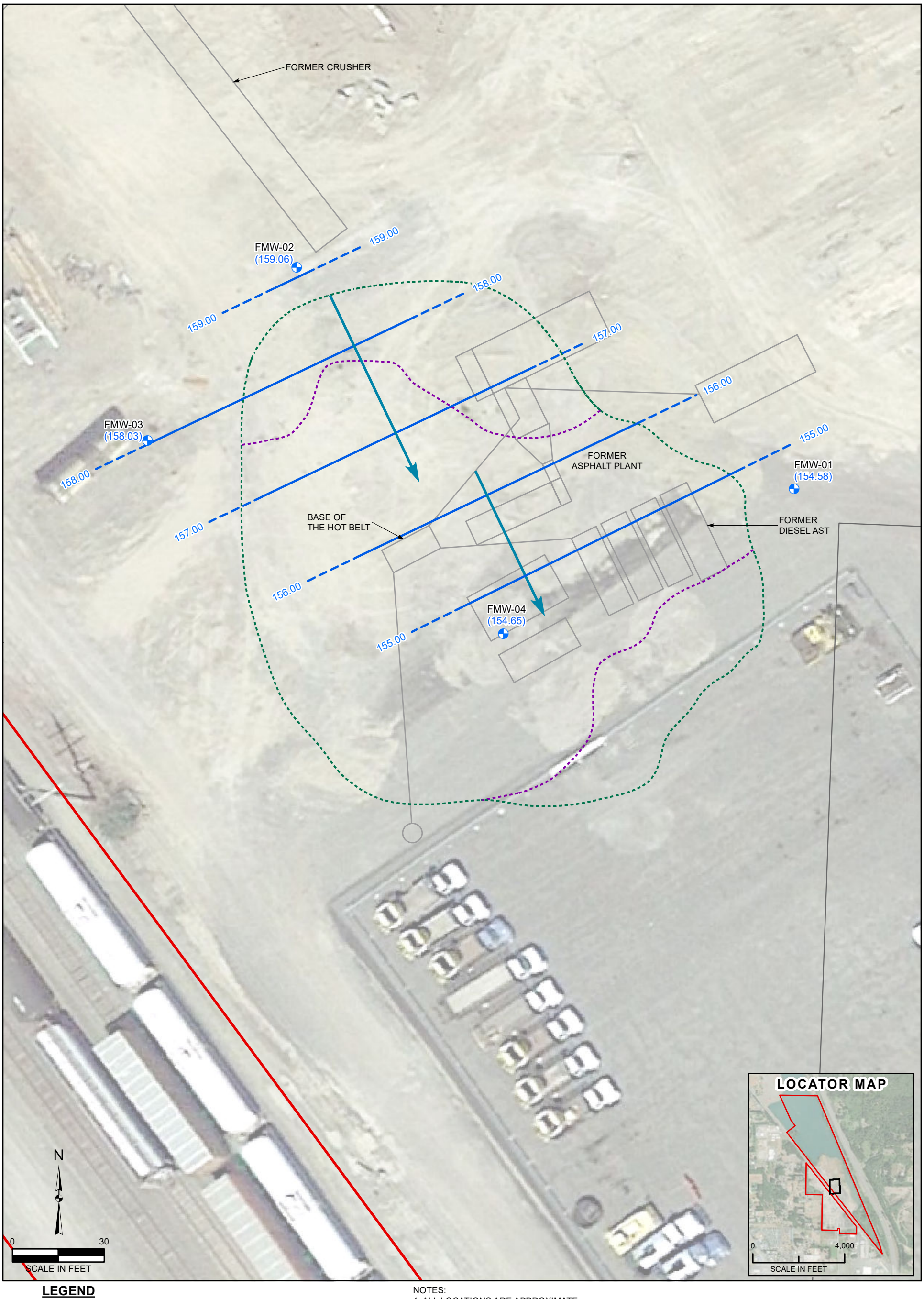

LEGEND

- MONITORING WELL (FARALLON, 2019)
- EXCEDENCE BENCHING
- EXCAVATION EXTENT
- FORMER PROPERTY FEATURE
- PROPERTY BOUNDARY
- LEWIS COUNTY PARCEL BOUNDARY
- (159.06) GROUNDWATER ELEVATION (11/6/2023) MEASURED IN FEET REFERENCED TO NORTH AMERICAL VERTICAL DATUM OF 1988 (NAVD88)
- 159.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

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FIGURE 6

GROUNDWATER CONTOURS
NOVEMBER 6, 2023
FORMER ASPHALT BATCH PLANT
2001 JOHNSON ROAD
CENTRALIA, WASHINGTON

FARALLON PN: 525-031

Drawn By: aguse | Checked By: CVS | Date: 12/1/2023 | Disc Reference:

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FORMER CRUSHER

FMW-02
07/16/2019|<280|**540**|**540**
10/14/2019|<260|<410|<670
01/16/2020|<200|<260|<460
04/12/2022|309|<152|309
05/04/2023|230|<157|230
08/07/2023|165|<168|165
11/06/2023|441|<154|441

FMW-03
07/16/2019|<290|**520**|**520**
10/14/2019|280|<410|280
01/16/2020|<200|<200|<400
04/12/2022|120|<155|120
05/04/2023|161|<155|161
08/07/2023|126|<168|126
11/06/2023|273|<154|273

FMW-01
07/16/2019|<290|<460|<750
10/14/2019|<260|<420|<680
01/16/2020|220|280|500
04/12/2022|150|<154|150
05/04/2023|175|<152|175
08/07/2023|86.6|<163|86.6
11/06/2023|401|<154|401

FORMER
ASPHALT PLANT

BASE OF
THE HOT BELT

FORMER
DIESEL AST

FMW-04
07/16/2019|400|470|**870**
10/14/2019|<260|<420|<680
01/16/2020|310|260|**570**
04/12/2022|238|<154|238
05/04/2023|294|<152|294
08/07/2023|242|<165|242
11/06/2023|447|<152|447

NOTES:
SOIL RESULTS SHOWN AS
SAMPLE DATE | DRO | ORO | SUM OF DRO AND ORO
ANALYTICAL RESULTS IN MICROGRAMS PER LITER
BOLD = CONCENTRATIONS THAT EXCEED MTCA CLEANUP LEVELS
< = ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORTING LIMIT LISTED
AST = ABOVEGROUND STORAGE TANK
DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS
ORO = TPH AS OIL-RANGE ORGANICS
MTCA = WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION

LOCATOR MAP

0 4,000
SCALE IN FEET

LEGEND

- MONITORING WELL (FARALLON, 2019)
- EXCAVATION BENCHING
- EXCAVATION EXTENT
- FORMER PROPERTY FEATURE
- PROPERTY BOUNDARY
- LEWIS COUNTY PARCEL BOUNDARY

N

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FIGURE 7

GROUNDWATER ANALYTICAL RESULTS
FOR DRO AND ORO
FORMER ASPHALT BATCH PLANT
2001 JOHNSON ROAD
CENTRALIA, WASHINGTON

FARALLON PN: 525-031

Drawn By: aguse | Checked By: SS | Date: 1/3/2024 | Disc Reference:

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TABLES

GROUNDWATER MONITORING SUMMARY
Centralia Facility - Former Asphalt Batch Plant
2001 Johnson Road
Centralia, Washington

Farallon PN: 525-031

Table 1
Groundwater Elevations
Former Asphalt Batch Plant
Centralia, Washington
Farallon PN: 525-031

Location	Top of Casing Elevation (feet NAVD88)[1]	Monitoring Date	Depth to Water (feet)[2]	Water Level Elevation (feet NAVD88)[1]
FMW-01	184.11	7/16/2019	30.34	153.77
		10/14/2019	25.18	158.93
		1/16/2020	20.54	163.57
		4/21/2020	23.54	160.57
		4/12/2022	20.03	164.08
		5/4/2023	22.88	161.23
		8/7/2023	30.05	154.06
		11/6/2023	29.53	154.58
FMW-02	182.62	7/16/2019	28.70	153.92
		10/14/2019	30.69	151.93
		1/16/2020	15.38	167.24
		4/21/2020	19.94	162.68
		4/12/2022	16.25	166.37
		5/4/2023	19.47	163.15
		8/7/2023	27.73	154.89
		11/6/2023	23.56	159.06
FMW-03	182.01	7/16/2019	28.06	153.95
		10/14/2019	29.65	152.36
		1/16/2020	14.85	167.16
		4/21/2020	19.84	162.17
		4/12/2022	15.71	166.30
		5/4/2023	19.43	162.58
		8/7/2023	27.27	154.74
		11/6/2023	23.98	158.03
FMW-04	183.53	7/16/2019	29.74	153.79
		10/14/2019	31.20	152.33
		1/16/2020	16.50	167.03
		4/21/2020	20.52	163.01
		4/12/2022	17.01	166.52
		5/4/2023	20.19	163.34
		8/7/2023	29.43	154.10
		11/6/2023	28.88	154.65

NOTES:
[1] In feet above mean sea level.
[2] In feet below top of well casing.
NAVD88 = North American Vertical Datum of 1988
NS = not surveyed

Table 2
Groundwater Analytical Results for Petroleum Hydrocarbons
Former Asphalt Batch Plant
Centralia, Washington
Farallon PN: 525-031

			Analytical Results (micrograms per liter)						
			NWTPH-Dx[1]			NWTPH-Dx with Silica Gel Cleanup[2]			
Sample Location	Sample Date	Sample Identification	DRO	ORO	Total Petroleum + Polar Organics	DRO	ORO	Total Petroleum	Polar Organics[3]
FMW-01	7/16/2019	FMW-01-071619	< 290	< 460	< 750	---	---	---	---
	10/14/2019	FMW-1-101419	< 260	< 420	< 680	---	---	---	---
	1/16/2020	FMW-01-011620	220	280	500	---	---	---	---
	4/21/2020	FMW-01-042120	165	< 155	165	< 77.7	< 155	< 233	165
	4/12/2022	FMW-01-041222	150	< 154	150	---	---	---	---
	5/4/2023	FMW-01-05042023	175	< 152	175	< 76.2	< 152	< 228.2	175
	8/7/2023	FMW-01-08072023	86.6	< 163	86.6	< 81.6	< 163	< 245	86.6
	11/6/2023	FMW-01-11062023	401	< 154	401	< 76.9	< 154	< 231	401
FMW-02	7/16/2019	FMW-02-071619	< 280	**540**	**540**	---	---	---	---
	10/14/2019	FMW-2-101419	< 260	< 410	< 670	---	---	---	---
	1/16/2020	FMW-02-011620	< 200	< 260	< 460	---	---	---	---
	4/21/2020	FMW-02-042120	179	< 155	179	<77.7	< 155	< 233	179
	4/12/2022	FMW-02-041222	309	< 152	309	---	---	---	---
	5/4/2023	FMW-02-05042023	230	< 157	230	< 78.4	< 157	< 235.4	230
	8/7/2023	FMW-02-08072023	165	< 168	165	< 84.2	< 168	< 252	165
	11/6/2023	FMW-02-11062023	441	< 154	441	< 76.9	< 154	< 231	441
FMW-03	7/16/2019	FMW-03-071619	< 290	**520**	**520**	---	---	---	---
	10/14/2019	FMW-3-101419	280	< 410	280	---	---	---	---
	1/16/2020	FMW-03-011620	< 200	< 200	< 400	---	---	---	---
	4/21/2020	FMW-03-042120	159	<154	159	< 76.9	< 154	< 231	159
	4/12/2022	FMW-03-041222	120	< 155	120	---	---	---	---
	5/4/2023	FMW-03-05042023	161	< 155	161	< 77.7	< 155	< 232.7	161
	8/7/2023	FMW-03-08072023	126	< 168	126	< 84.2	< 168	< 252	126
	11/6/2023	FMW-03-11062023	273	< 154	273	< 76.9	< 154	< 231	273
MTCA Method A Cleanup Levels for Groundwater[4]			**500**		**500**	**500**		**500**	**500**

Table 2
Groundwater Analytical Results for Petroleum Hydrocarbons
Former Asphalt Batch Plant
Centralia, Washington
Farallon PN: 525-031

Sample Location	Sample Date	Sample Identification	NWTPH-Dx[1]			NWTPH-Dx with Silica Gel Cleanup[2]			
			DRO	ORO	Total Petroleum + Polar Organics	DRO	ORO	Total Petroleum	Polar Organics[3]
FMW-04	7/16/2019	FMW-04-071619	400	470	**870**	---	---	---	---
	10/14/2019	FMW-4-101419	< 260	< 420	< 680	---	---	---	---
	1/16/2020	FMW-04-011620	310	260	**570**	---	---	---	---
	4/21/2020	FMW-04-042120	451	< 155	451	60.0 J	< 155	60.0	391
	4/12/2022	FMW-04-041222	238	< 154	238	---	---	---	---
	5/4/2023	FMW-04-05042023	294	< 152	294	55.9 J	< 152	55.9 J	238.1
	8/7/2023	FMW-04-08072023	242	< 165	242	59.7 J	< 165	59.7 J	182.3
	11/6/2023	FMW-04-11062023	447	< 152	447	< 76.2	< 152	< 228	447
MTCA Method A Cleanup Levels for Groundwater[4]			**500**		**500**	**500**		**500**	**500**

NOTES:

Results in **bold** and highlighted orange denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the laboratory reporting limit listed.

--- denotes sample not analyzed.

[1]Analyzed by Northwest Method NWTPH-Dx without silica gel cleanup. Total Petroleum + Polar Organics is the sum of DRO and ORO results.

[2]Analyzed by Northwest Method NWTPH-Dx using sample extract treated with silica gel cleanup procedure. Total Petroleum is the sum of DRO and ORO results.

[3]Polar Organics (polar metabolites) concentration. Polar Organics is calculated by subtracting Total Petroleum from Total Petroleum + Polar Organics.

[4]Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as amended 2013.

DRO = total petroleum hydrocarbons (TPH) as diesel-range organics

J = result is an estimate

ORO = TPH as oil-range organics

ATTACHMENT A
LABORATORY ANALYTICAL REPORTS

GROUNDWATER MONITORING SUMMARY
Centralia Facility - Former Asphalt Batch Plant
2001 Johnson Road
Centralia, Washington

Farallon PN: 525-031

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Wednesday, May 31, 2023

Sarah Snyder
Farallon-Seattle
1809 7th Ave Suite 1111
Seattle, WA 98101

RE: A3E1061 - Centralia Asphalt Plant - 525-031

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3E1061, which was received by the laboratory on 5/4/2023 at 5:18:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: mpoquiz@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	0.8	degC	Cooler #2	2.7	degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michele Poquiz For Kurt Johnson, Senior Chemist

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3E1061 - 05 31 23 1607**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FMW-04-05042023	A3E1061-01	Water	05/04/23 11:10	05/04/23 17:18
FMW-01-05042023	A3E1061-02	Water	05/04/23 12:10	05/04/23 17:18
FMW-02-05042023	A3E1061-03	Water	05/04/23 13:12	05/04/23 17:18
FMW-03-05042023	A3E1061-04	Water	05/04/23 14:25	05/04/23 17:18

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Apex Laboratories, LLC
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ANALYTICAL REPORT

AMENDED REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3E1061 - 05 31 23 1607**

ANALYTICAL CASE NARRATIVE

A3E1061	**Apex Laboratories**

Amended Report Revision 1:

This report supersedes all previous reports.

Analysis of the samples for NWTPH-Dx with silica gel column cleanup was added after the previous report version had been completed.

Michele Poquiz
Forensics Project Manager
5/31/23

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3E1061 - 05 31 23 1607**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FMW-04-05042023 (A3E1061-01)				**Matrix: Water**		**Batch: 23E0661**		
Diesel	**294**	38.1	76.2	ug/L	1	05/16/23 18:25	NWTPH-Dx LL	**F-11**
Oil	ND	76.2	152	ug/L	1	05/16/23 18:25	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 102 %*		*Limits: 50-150 %*	*1*	*05/16/23 18:25*	*NWTPH-Dx LL*	
FMW-01-05042023 (A3E1061-02)				**Matrix: Water**		**Batch: 23E0661**		
Diesel	**175**	38.1	76.2	ug/L	1	05/16/23 18:46	NWTPH-Dx LL	**F-11**
Oil	ND	76.2	152	ug/L	1	05/16/23 18:46	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 95 %*		*Limits: 50-150 %*	*1*	*05/16/23 18:46*	*NWTPH-Dx LL*	
FMW-02-05042023 (A3E1061-03)				**Matrix: Water**		**Batch: 23E0661**		
Diesel	**230**	39.2	78.4	ug/L	1	05/16/23 19:06	NWTPH-Dx LL	**F-11**
Oil	ND	78.4	157	ug/L	1	05/16/23 19:06	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 97 %*		*Limits: 50-150 %*	*1*	*05/16/23 19:06*	*NWTPH-Dx LL*	
FMW-03-05042023 (A3E1061-04)				**Matrix: Water**		**Batch: 23E0661**		
Diesel	**161**	38.8	77.7	ug/L	1	05/16/23 19:27	NWTPH-Dx LL	**F-11**
Oil	ND	77.7	155	ug/L	1	05/16/23 19:27	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 102 %*		*Limits: 50-150 %*	*1*	*05/16/23 19:27*	*NWTPH-Dx LL*	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3E1061 - 05 31 23 1607**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FMW-04-05042023 (A3E1061-01)				**Matrix: Water**		**Batch: 23E1205**		
Diesel	**55.9**	38.1	76.2	ug/L	1	05/30/23 21:20	NWTPH-Dx/SGC	**J**
Oil	ND	76.2	152	ug/L	1	05/30/23 21:20	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 116 %*		*Limits: 50-150 %*	*1*	*05/30/23 21:20*	*NWTPH-Dx/SGC*	
FMW-01-05042023 (A3E1061-02)				**Matrix: Water**		**Batch: 23E1205**		
Diesel	ND	38.1	76.2	ug/L	1	05/30/23 21:41	NWTPH-Dx/SGC	
Oil	ND	76.2	152	ug/L	1	05/30/23 21:41	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 101 %*		*Limits: 50-150 %*	*1*	*05/30/23 21:41*	*NWTPH-Dx/SGC*	
FMW-02-05042023 (A3E1061-03)				**Matrix: Water**		**Batch: 23E1205**		
Diesel	ND	39.2	78.4	ug/L	1	05/30/23 22:03	NWTPH-Dx/SGC	
Oil	ND	78.4	157	ug/L	1	05/30/23 22:03	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 109 %*		*Limits: 50-150 %*	*1*	*05/30/23 22:03*	*NWTPH-Dx/SGC*	
FMW-03-05042023 (A3E1061-04)				**Matrix: Water**		**Batch: 23E1205**		
Diesel	ND	38.8	77.7	ug/L	1	05/30/23 22:24	NWTPH-Dx/SGC	
Oil	ND	77.7	155	ug/L	1	05/30/23 22:24	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 110 %*		*Limits: 50-150 %*	*1*	*05/30/23 22:24*	*NWTPH-Dx/SGC*	

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

APEX LABORATORIES

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Farallon-Seattle
1809 7th Ave Suite 1111
Seattle, WA 98101

Project: **Centralia Asphalt Plant**
Project Number: **525-031**
Project Manager: **Sarah Snyder**

Report ID:
A3E1061 - 05 31 23 1607

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0661 - EPA 3510C (Fuels/Acid Ext.)									Water			
Blank (23E0661-BLK1)				Prepared: 05/16/23 07:05		Analyzed: 05/16/23 17:23						
NWTPH-Dx LL												
Diesel	ND	40.0	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	80.0	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 88 %*	*Limits: 50-150 %*		*Dilution: 1x*						
LCS (23E0661-BS1)				Prepared: 05/16/23 07:05		Analyzed: 05/16/23 17:43						
NWTPH-Dx LL												
Diesel	363	40.0	80.0	ug/L	1	500	---	73	36-132%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 98 %*	*Limits: 50-150 %*		*Dilution: 1x*						
LCS Dup (23E0661-BSD1)				Prepared: 05/16/23 07:05		Analyzed: 05/16/23 18:04						**Q-19**
NWTPH-Dx LL												
Diesel	351	40.0	80.0	ug/L	1	500	---	70	36-132%	3	30%	
Surr: o-Terphenyl (Surr)			*Recovery: 97 %*	*Limits: 50-150 %*		*Dilution: 1x*						

Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3E1061 - 05 31 23 1607**

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E1205 - EPA 3510C (Fuels/Acid Ext.) w/Silica Gel Column								**Water**				
Blank (23E1205-BLK1)				Prepared: 05/16/23 07:05	Analyzed: 05/30/23 20:13							
NWTPH-Dx/SGC												
Diesel	ND	40.0	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	80.0	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 106 %*		*Limits: 50-150 %*		*Dilution: 1x*						
LCS (23E1205-BS1)				Prepared: 05/16/23 07:05	Analyzed: 05/30/23 20:37							
NWTPH-Dx/SGC												
Diesel	419	40.0	80.0	ug/L	1	500	---	84	36-132%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 109 %*		*Limits: 50-150 %*		*Dilution: 1x*						
LCS Dup (23E1205-BSD1)				Prepared: 05/16/23 07:05	Analyzed: 05/30/23 20:58							**Q-19**
NWTPH-Dx/SGC												
Diesel	439	40.0	80.0	ug/L	1	500	---	88	36-132%	5	30%	
Surr: o-Terphenyl (Surr)		*Recovery: 119 %*		*Limits: 50-150 %*		*Dilution: 1x*						

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Michele Poquiz For Kurt Johnson, Senior Chemist

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3E1061 - 05 31 23 1607**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0661							
A3E1061-01	Water	NWTPH-Dx LL	05/04/23 11:10	05/16/23 07:05	1050mL/2mL	1000mL/2mL	0.95
A3E1061-02	Water	NWTPH-Dx LL	05/04/23 12:10	05/16/23 07:05	1050mL/2mL	1000mL/2mL	0.95
A3E1061-03	Water	NWTPH-Dx LL	05/04/23 13:12	05/16/23 07:05	1020mL/2mL	1000mL/2mL	0.98
A3E1061-04	Water	NWTPH-Dx LL	05/04/23 14:25	05/16/23 07:05	1030mL/2mL	1000mL/2mL	0.97

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Prep: EPA 3510C (Fuels/Acid Ext.) w/Silica Gel Column

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E1205							
A3E1061-01	Water	NWTPH-Dx/SGC	05/04/23 11:10	05/16/23 07:05	1050mL/2mL	1000mL/2mL	0.95
A3E1061-02	Water	NWTPH-Dx/SGC	05/04/23 12:10	05/16/23 07:05	1050mL/2mL	1000mL/2mL	0.95
A3E1061-03	Water	NWTPH-Dx/SGC	05/04/23 13:12	05/16/23 07:05	1020mL/2mL	1000mL/2mL	0.98
A3E1061-04	Water	NWTPH-Dx/SGC	05/04/23 14:25	05/16/23 07:05	1030mL/2mL	1000mL/2mL	0.97

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Michele Poquiz For Kurt Johnson, Senior Chemist

Apex Laboratories, LLC
6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3E1061 - 05 31 23 1607**

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

F-11	The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.

Apex Laboratories

Michele Poquiz For Kurt Johnson, Senior Chemist

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Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3E1061 - 05 31 23 1607**

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a “dry weight” basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an “As Received” basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michele Poquiz For Kurt Johnson, Senior Chemist

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3E1061 - 05 31 23 1607**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Michele Poquiz For Kurt Johnson, Senior Chemist

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3E1061 - 05 31 23 1607**

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories, LLC
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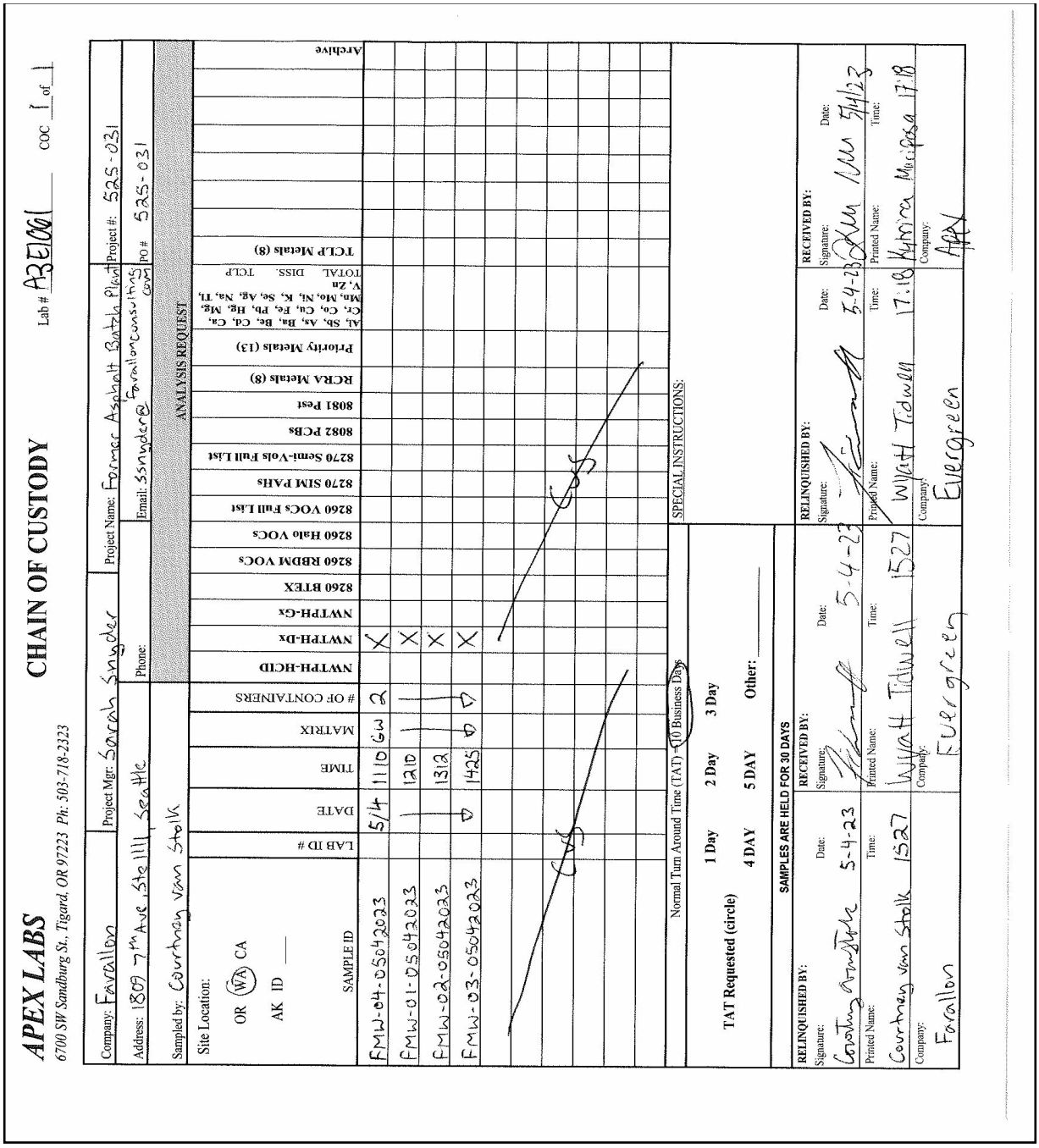
ANALYTICAL REPORT

AMENDED REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3E1061 - 05 31 23 1607**



Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

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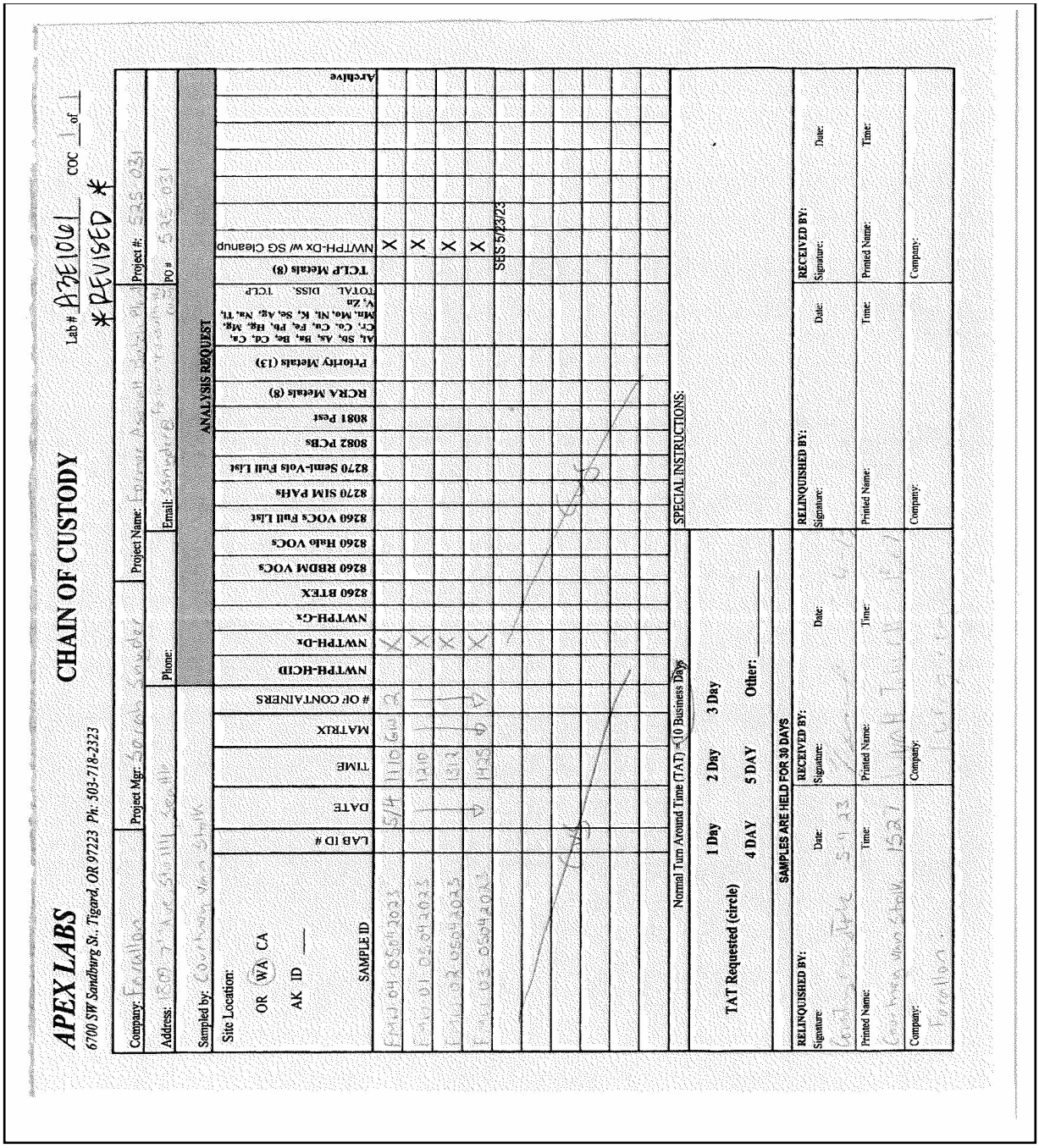
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3E1061 - 05 31 23 1607**



Apex Laboratories

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Michele Poquiz For Kurt Johnson, Senior Chemist

Apex Laboratories, LLC
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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3E1061 - 05 31 23 1607**

APEX LABS COOLER RECEIPT FORM

Client: Farallon Element WO#: A3E1061

Project/Project #: Former Asphalt Batch Plant 1525-031

Delivery Info:

Date/time received: 5/4/23 @ 17:18 By: RAM

Delivered by: Apex__Client X ESS__FedEx__UPS__Radio__Morgan__SDS__Evergreen__Other__

Cooler Inspection Date/time inspected: 5/4/23 @ 17:25 By: RAM

Chain of Custody included? Yes X No ____

Signed/dated by client? Yes X No ____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	0.8	2.7					
Custody seals? (Y/N)	N	N					
Received on ice? (Y/N)	Y	Y					
Temp. blanks? (Y/N)	Y	Y					
Ice type: (Gel/Real/Other)	Real	Real					
Condition (In/Out):	In	In					

Cooler out of temp? (Y/N) Possible reason why: ____

Green dots applied to out of temperature samples? Yes/No

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 5/5/23 @ 11:48 By: RMP

All samples intact? Yes Y No ___ Comments: ____

Bottle labels/COCs agree? Yes X No ___ Comments: ____

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes Y No ___ Comments: ____

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments ____

Water samples: pH checked: Yes X No ___ NA X pH appropriate? Yes Y No ___ NA ___ RMP 5/5

Comments: ____

Additional information: ____

Labeled by: RMP Witness: JS Cooler Inspected by: RAM

Form Y-003 R-00

Apex Laboratories

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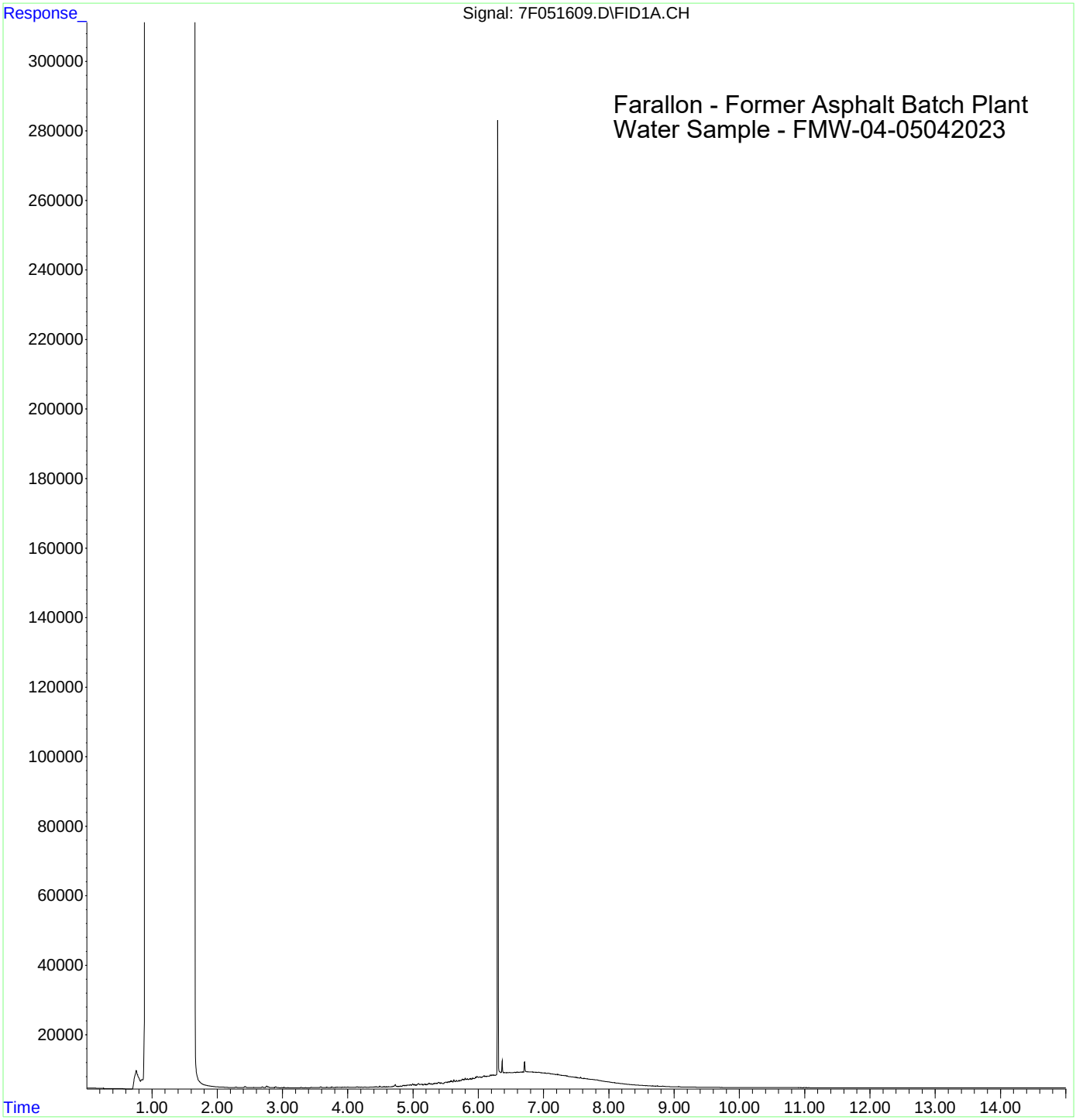
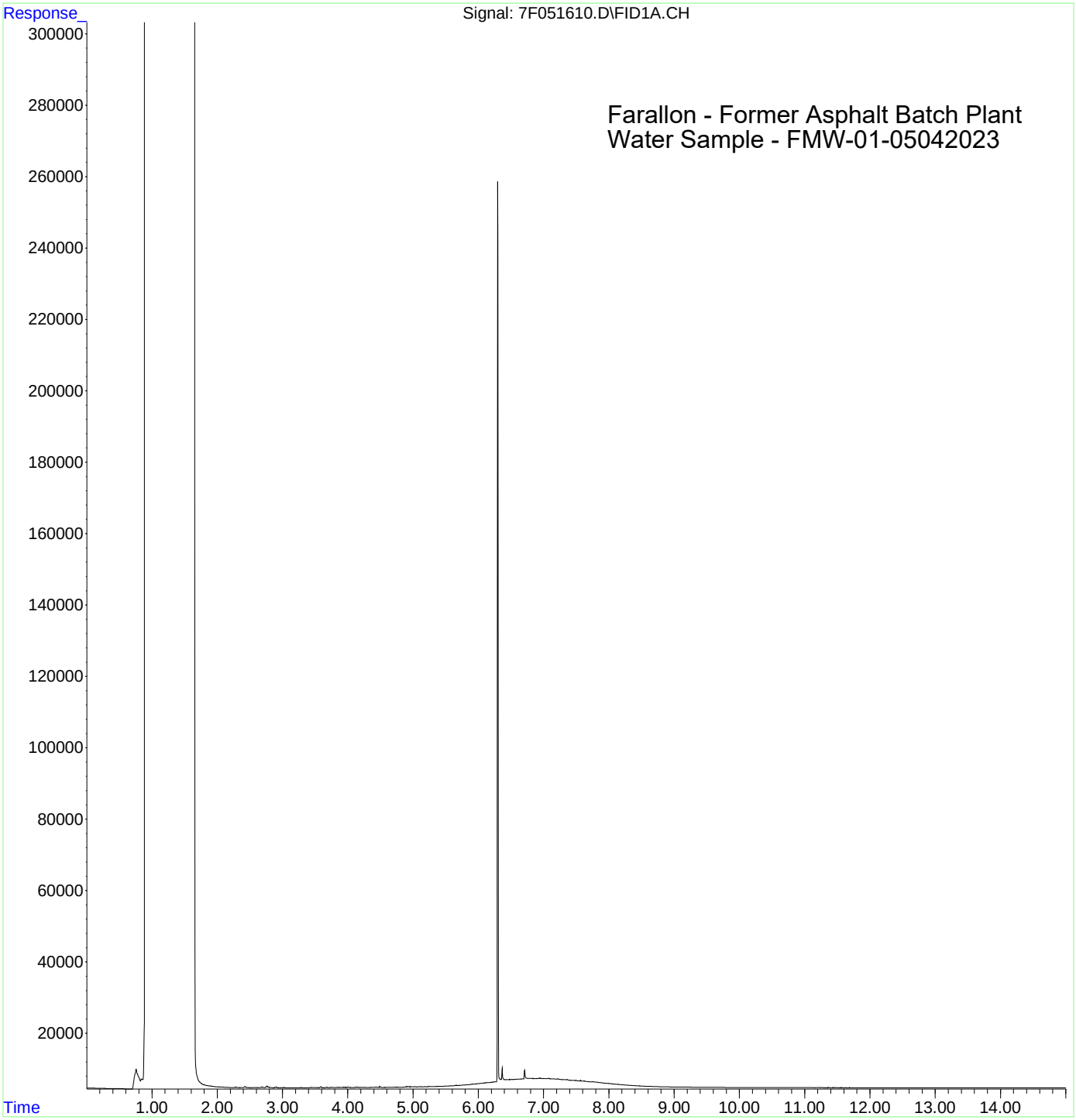
Michele Poquiz

Michele Poquiz For Kurt Johnson, Senior Chemist

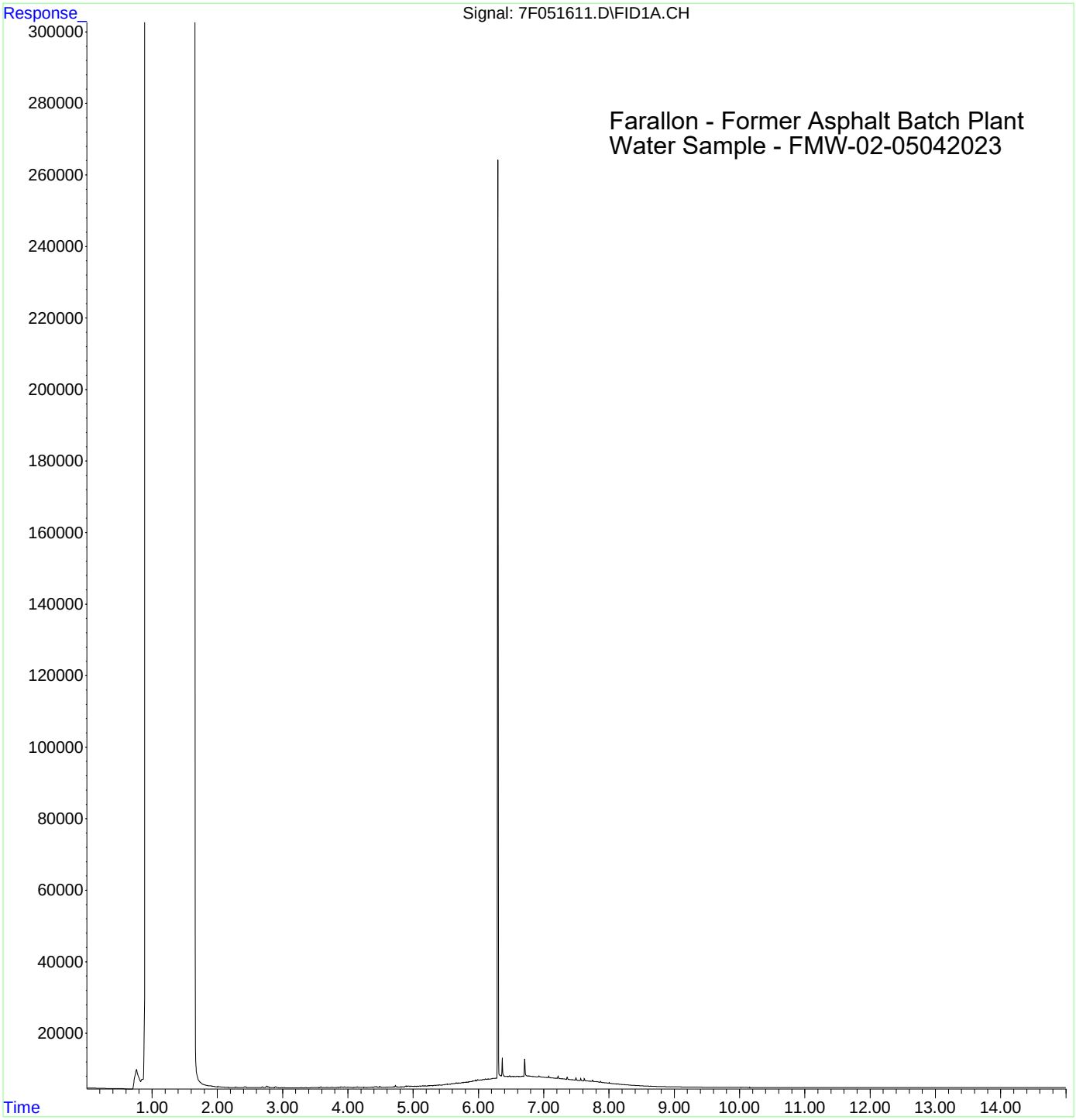
File   :M:\DUALFID7\1\DATA\2023-05\3E16051\7F051609.D
Operator   : BLL
Acquired   : 16 May 2023   6:25 pm using AcqMethod FID7ACQ.M
Instrument :   HP G1530A
Sample Name: A3E1061-01
Misc Info :
Vial Number: 6



File   :M:\DUALFID7\1\DATA\2023-05\3E16051\7F051610.D
Operator   : BLL
Acquired   : 16 May 2023   6:46 pm using AcqMethod FID7ACQ.M
Instrument :   HP G1530A
Sample Name: A3E1061-02
Misc Info :
Vial Number: 7



File   :M:\DUALFID7\1\DATA\2023-05\3E16051\7F051611.D
Operator   : BLL
Acquired   : 16 May 2023   7:06 pm using AcqMethod FID7ACQ.M
Instrument :   HP G1530A
Sample Name: A3E1061-03
Misc Info :
Vial Number: 8



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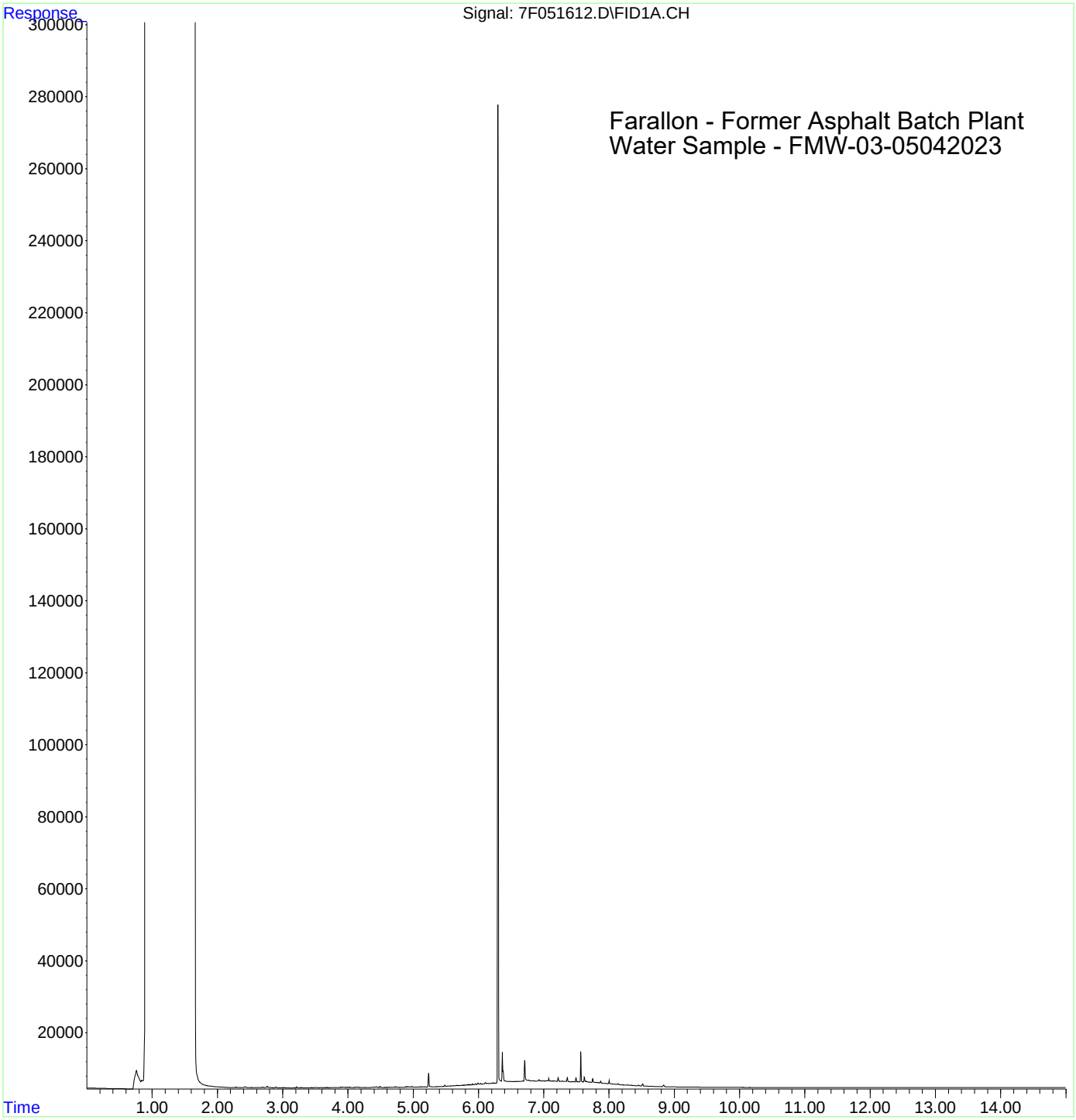
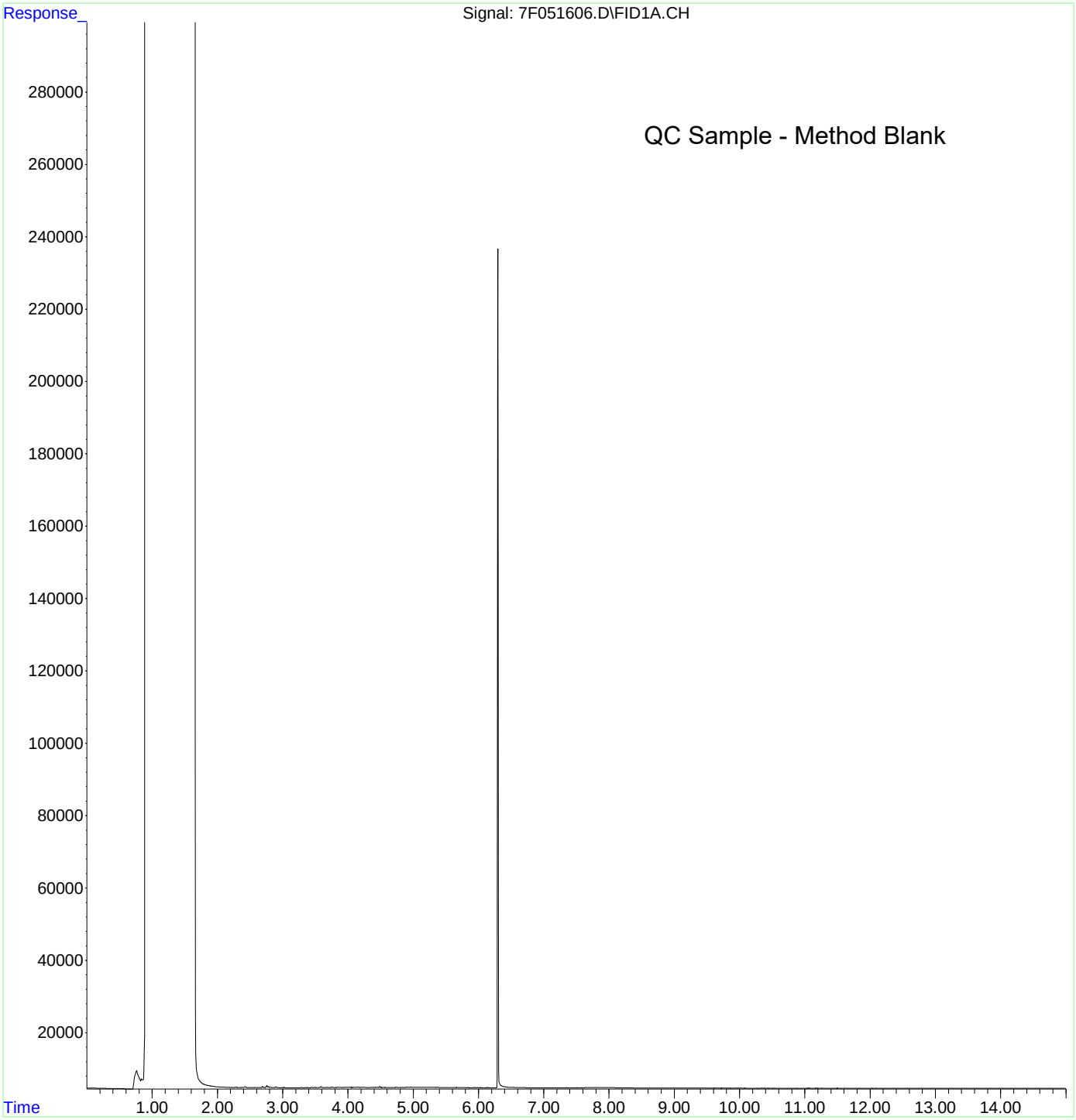
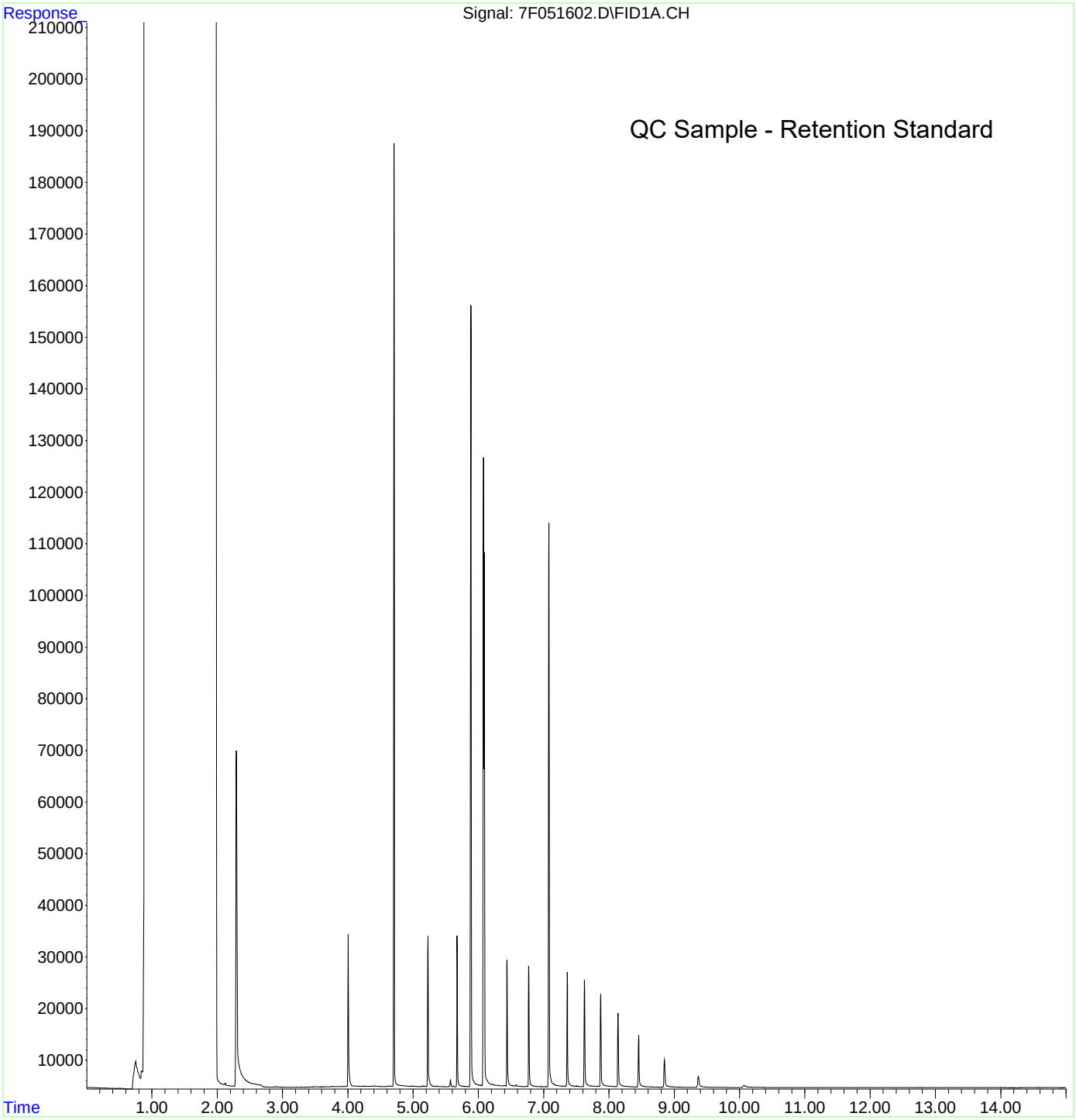
Operator : BLL
Acquired : 16 May 2023 7:27 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: A3E1061-04
Misc Info :
Vial Number: 9



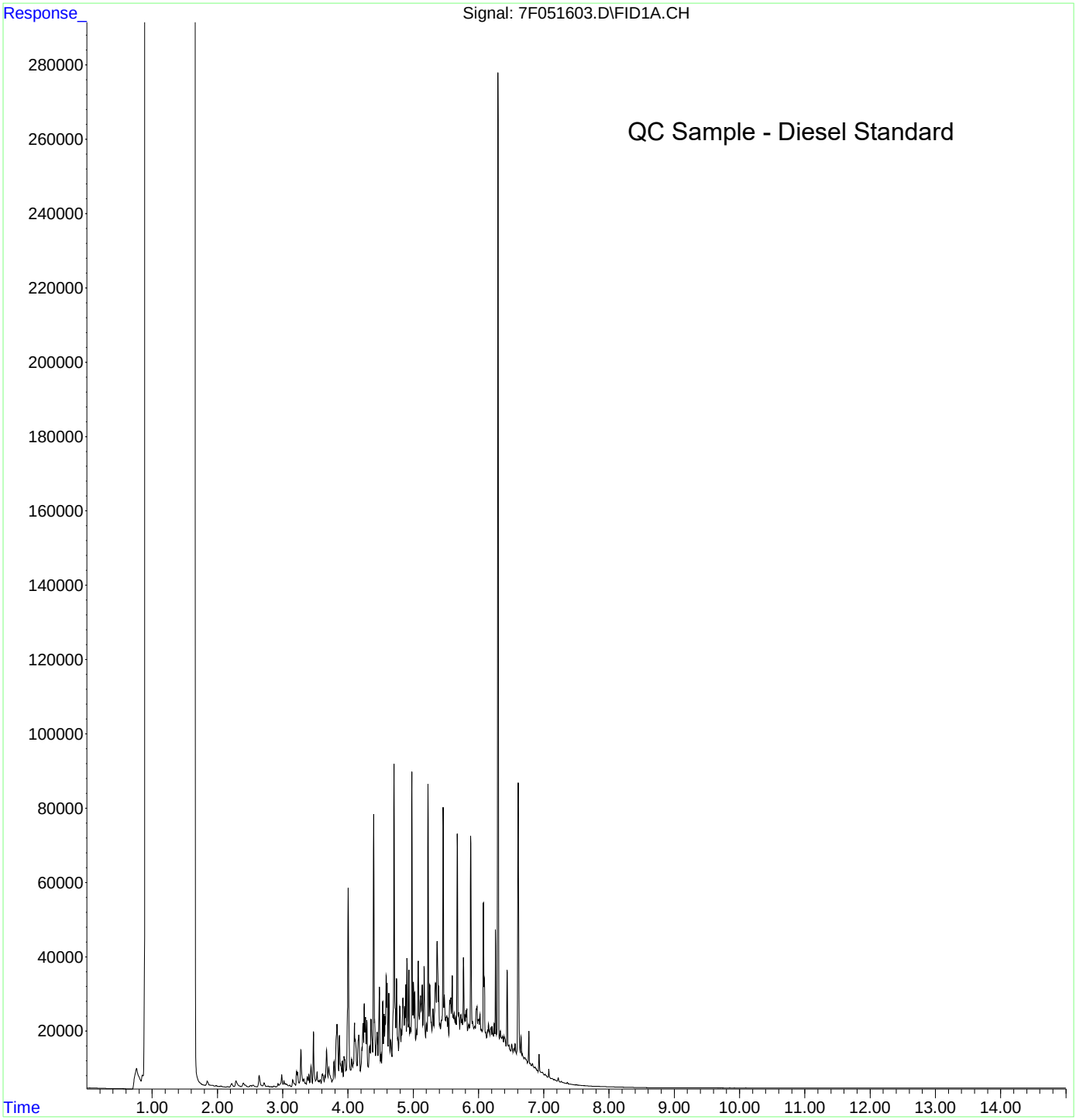
File :M:\DUALFID7\1\DATA\2023-05\3E16051\7F051606.D
Operator : BLL
Acquired : 16 May 2023 5:23 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: 23E0661-BLK1
Misc Info :
Vial Number: 3



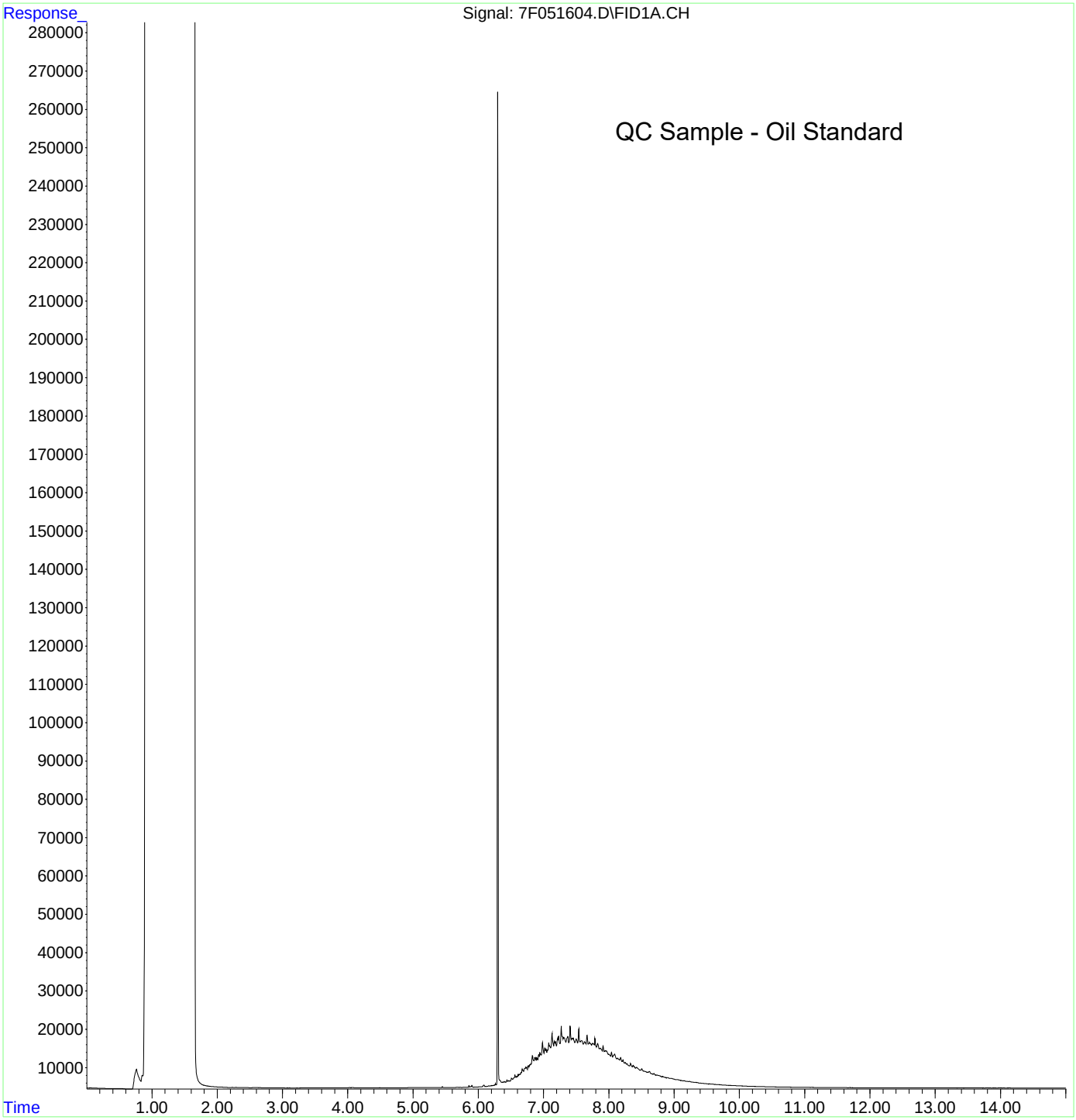
File   :M:\DUALFID7\1\DATA\2023-05\3E16051\7F051602.D
Operator   : BLL
Acquired   : 16 May 2023   1:57 pm using AcqMethod FID7ACQ.M
Instrument :   HP G1530A
Sample Name: 3E16051-RES1
Misc Info :
Vial Number: 94



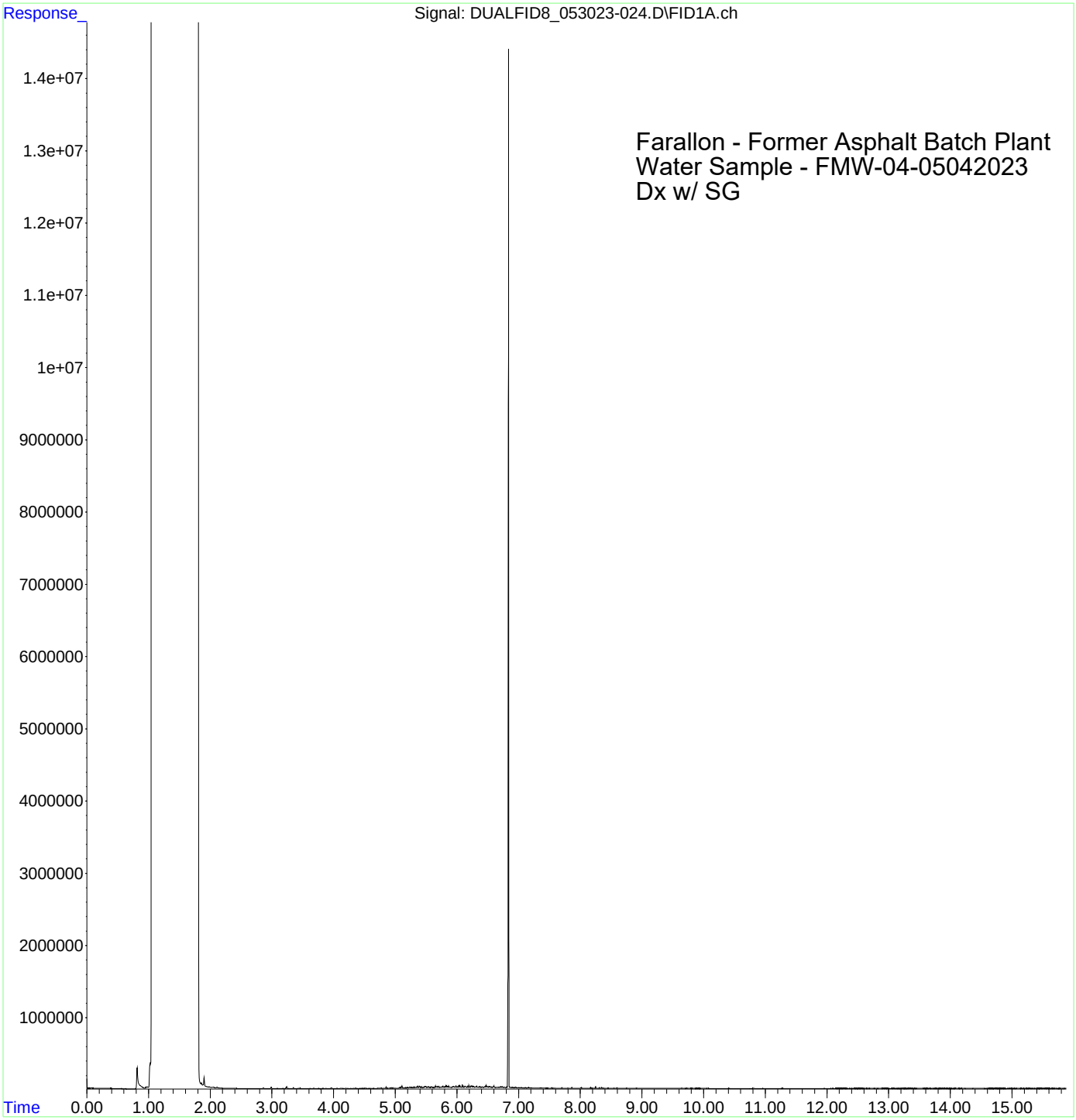
File :M:\DUALFID7\1\DATA\2023-05\3E16051\7F051603.D
Operator : BLL
Acquired : 16 May 2023 2:18 pm using AcqMethod FID7ACQ.M
Instrument : HP G1530A
Sample Name: 3E16051-CCV1
Misc Info :
Vial Number: 1



File   :M:\DUALFID7\1\DATA\2023-05\3E16051\7F051604.D
Operator   : BLL
Acquired   : 16 May 2023   2:39 pm using AcqMethod FID7ACQ.M
Instrument :   HP G1530A
Sample Name: 3E16051-CCV2
Misc Info :
Vial Number: 2



File   :M:\DUALFID8\data\2023-05\3E30066\DUALFID8_053023-024.D
Operator   :
Acquired   : 30 May 2023 09:20 pm using AcqMethod DUALFID8 Acquisition.M
Instrument :   FUELS8
Sample Name: A3E1061-01
Misc Info :   ERR
Vial Number: 9



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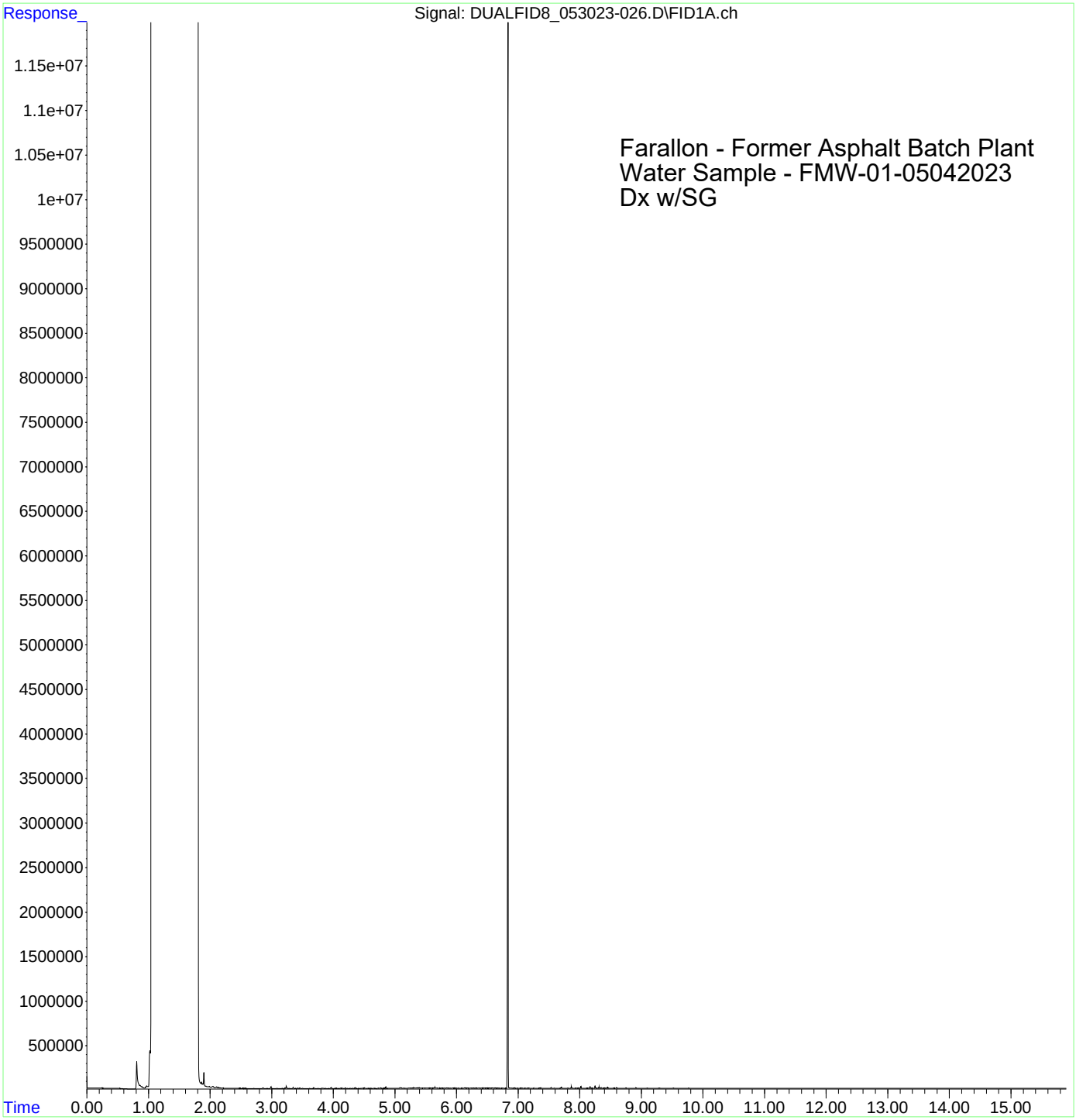
Operator   :
Acquired   : 30 May 2023 09:41 pm using AcqMethod DUALFID8 Acquisition.M
Instrument :   FUELS8
Sample Name: A3E1061-02
Misc Info :   ERR
Vial Number: 10



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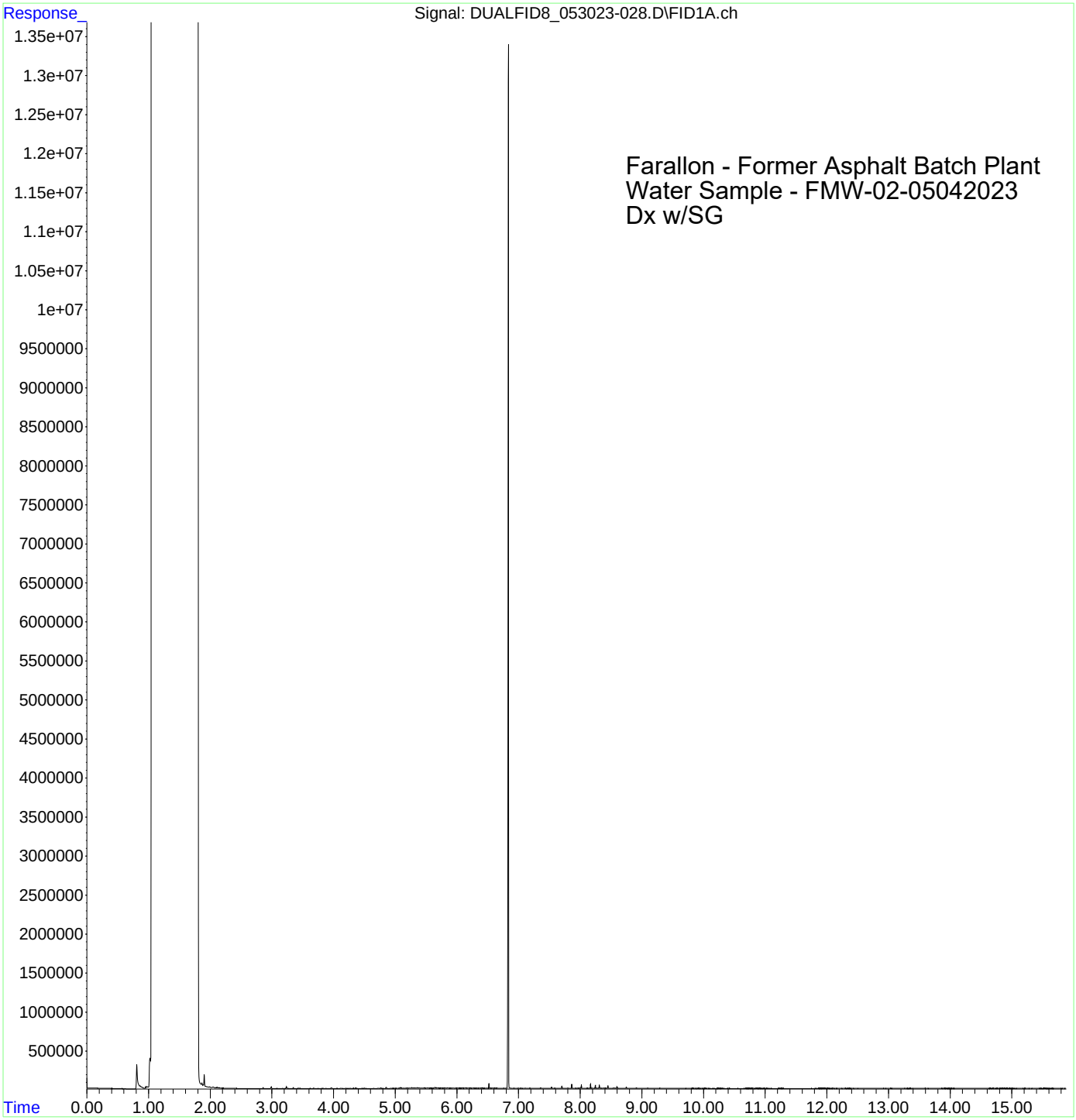
Operator   :
Acquired   : 30 May 2023 10:03 pm using AcqMethod DUALFID8 Acquisition.M
Instrument :   FUELS8
Sample Name: A3E1061-03
Misc Info :   ERR
Vial Number: 11



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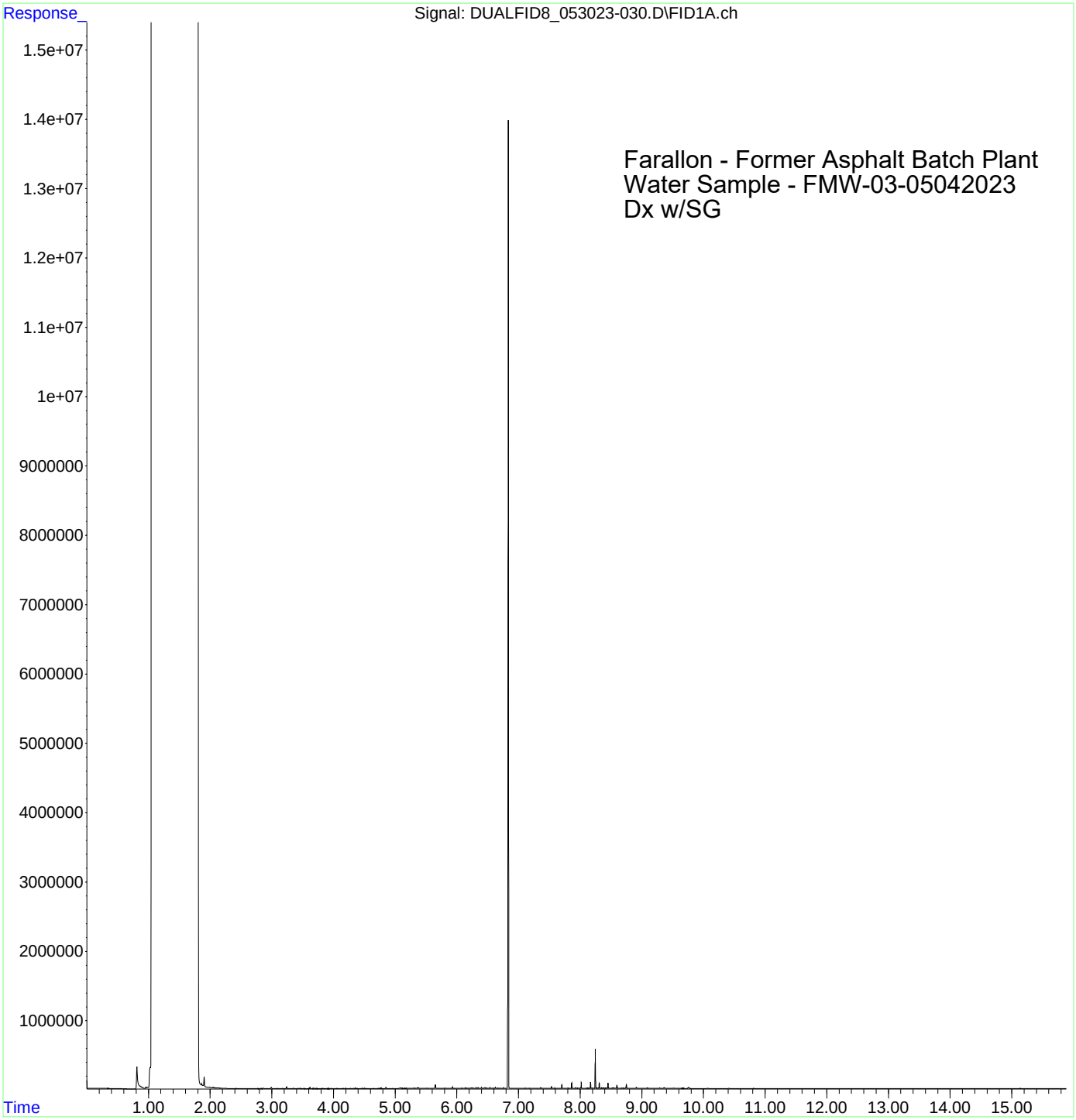
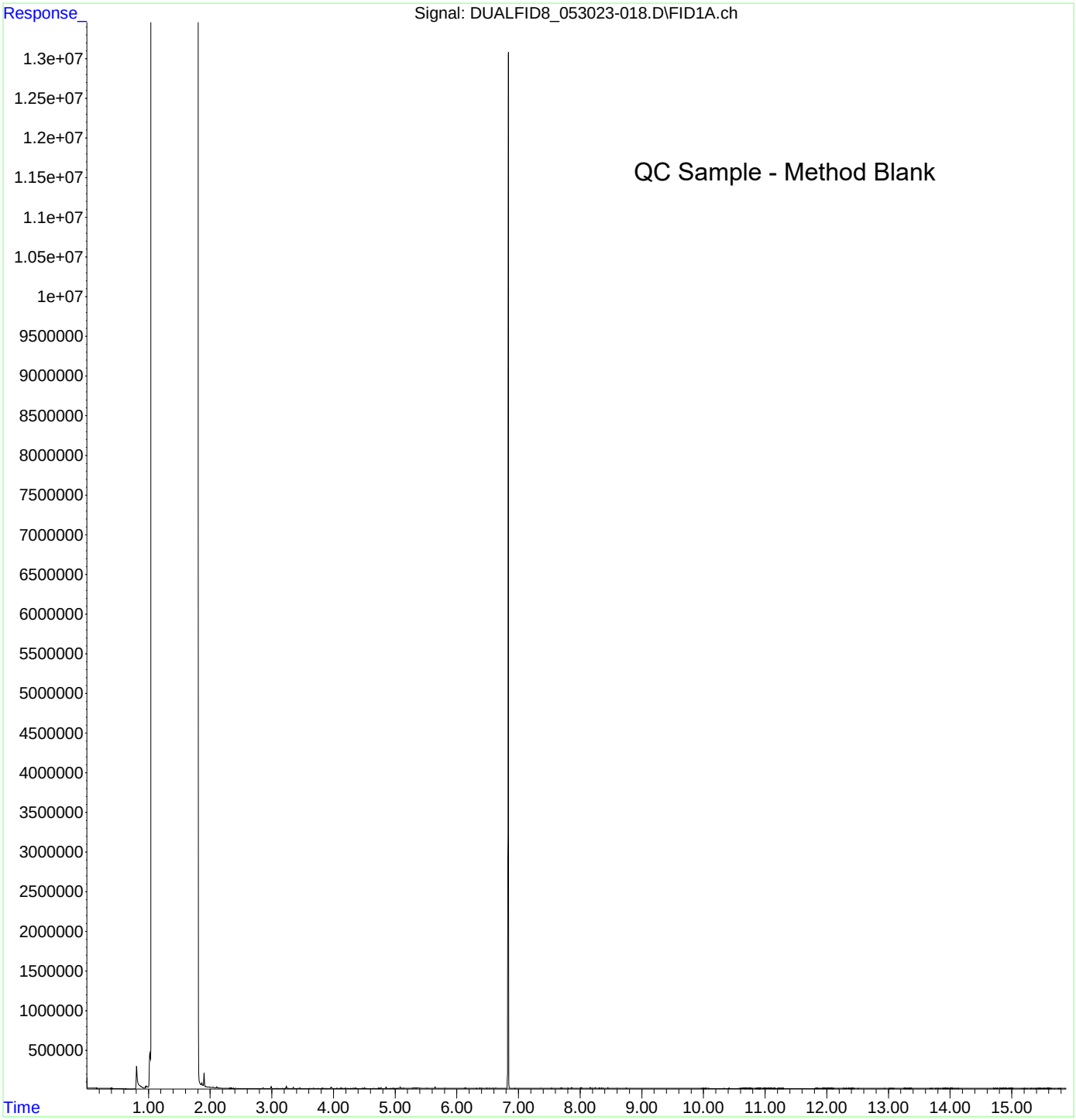
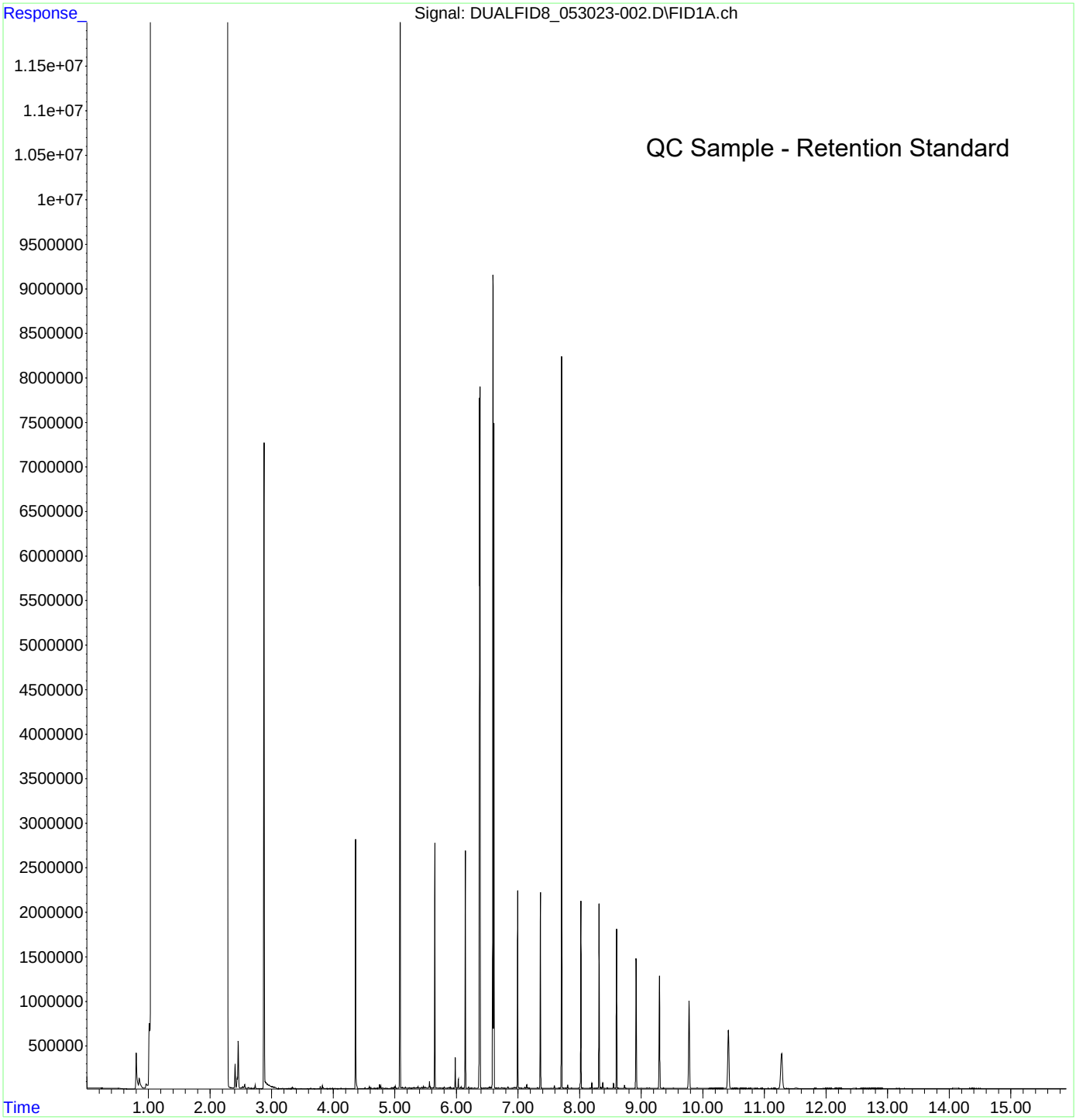
Operator   :
Acquired   : 30 May 2023 10:24 pm using AcqMethod DUALFID8 Acquisition.M
Instrument :   FUELS8
Sample Name: A3E1061-04
Misc Info :   ERR
Vial Number: 12



File   :M:\DUALFID8\data\2023-05\3E30066\DUALFID8_053023-018.D
Operator   :
Acquired   : 30 May 2023 08:13 pm using AcqMethod DUALFID8 Acquisition.M
Instrument :   FUELS8
Sample Name: 23E1205-BLK1
Misc Info :   ERR
Vial Number: 6



File   :M:\DUALFID8\data\2023-05\3E30066\DUALFID8_053023-002.D
Operator   :
Acquired   : 30 May 2023 05:13 pm using AcqMethod DUALFID8 Acquisition.M
Instrument :   FUELS8
Sample Name: 3E30066-RES1
Misc Info :   ERR
Vial Number: 139



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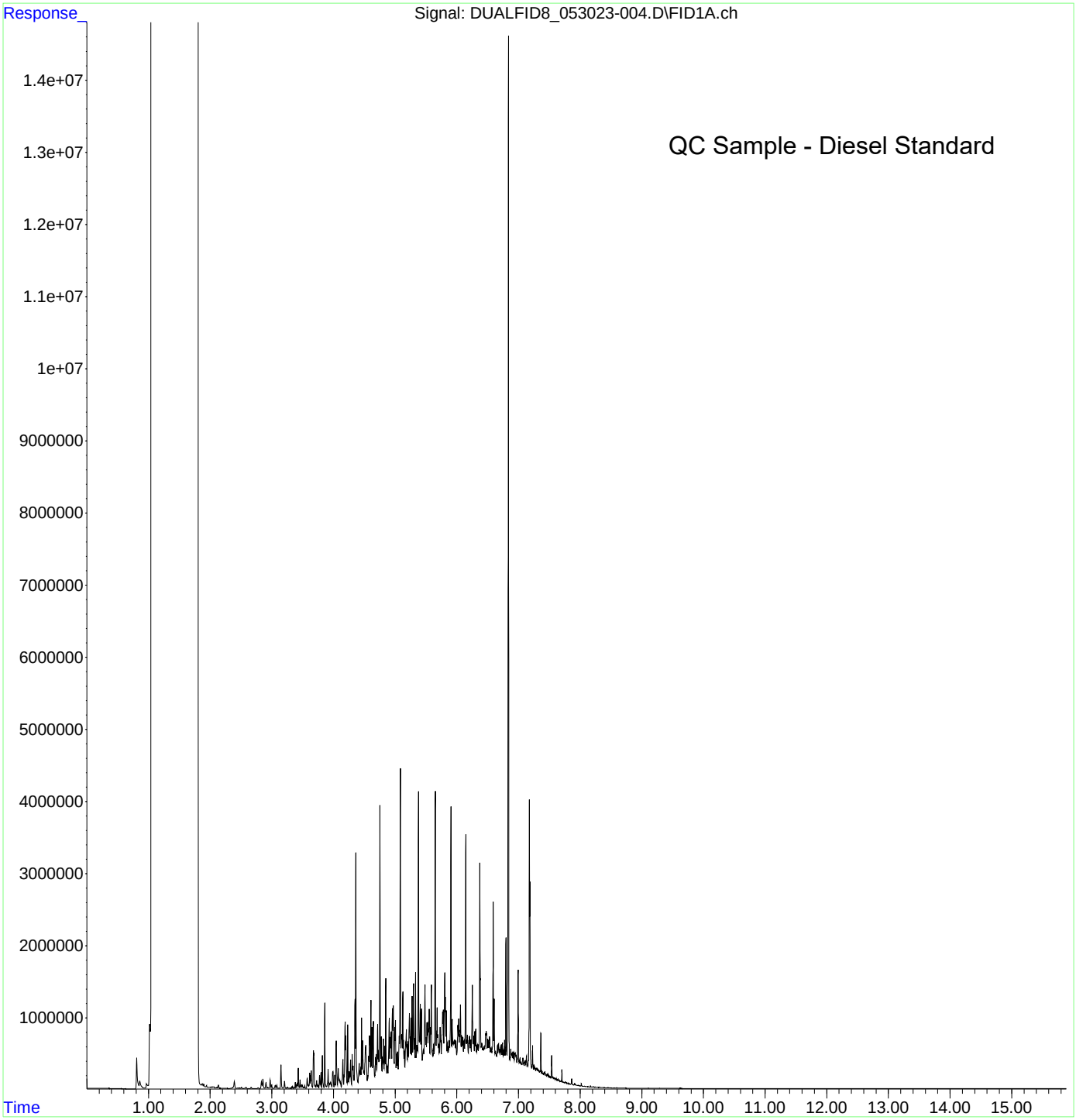
Operator   :
Acquired   : 30 May 2023 05:35 pm using AcqMethod DUALFID8 Acquisition.M
Instrument :   FUELS8
Sample Name: 3E30066-CCV1
Misc Info :   ERR
Vial Number: 1



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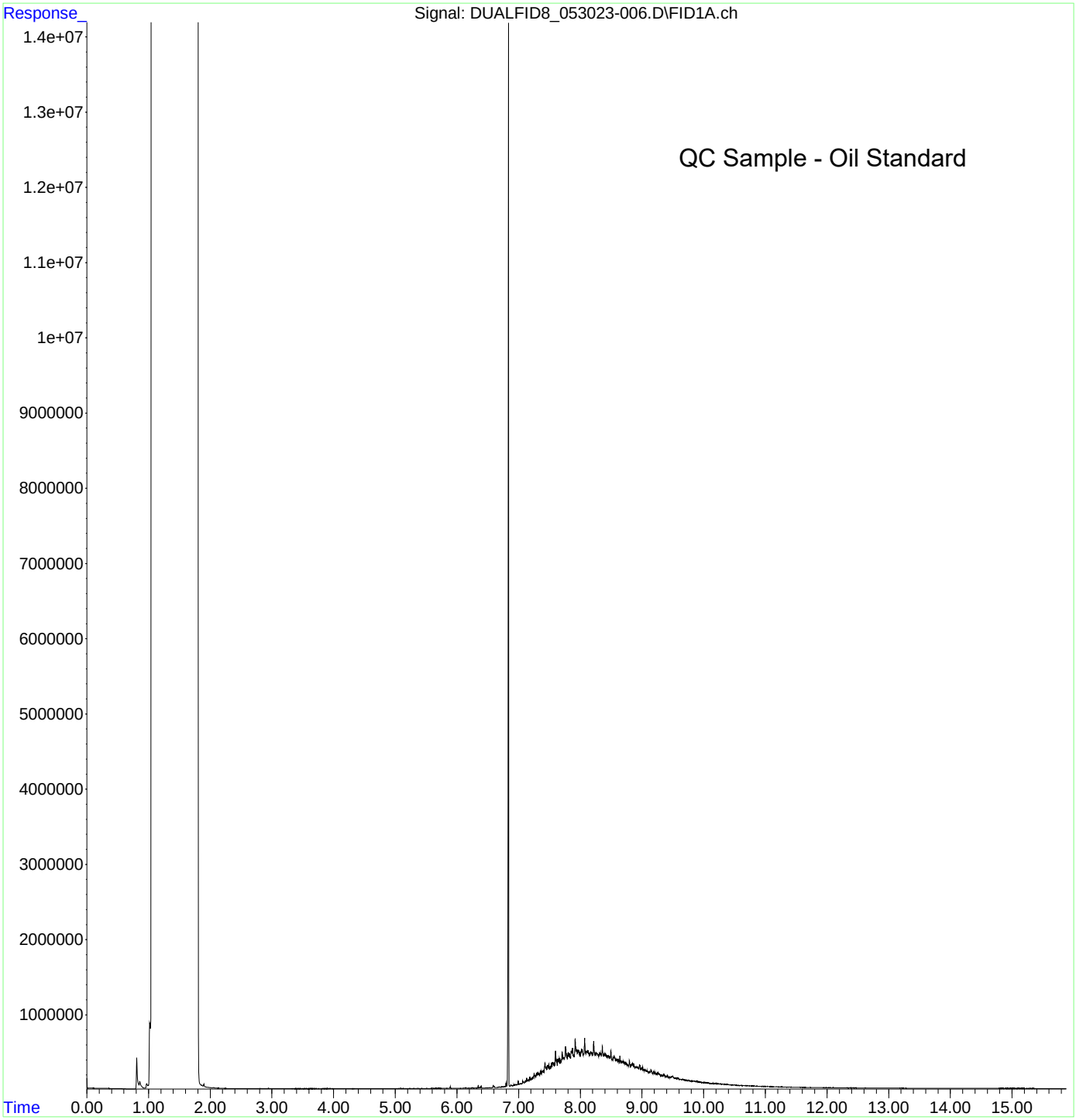
Operator   :
Acquired   : 30 May 2023 05:56 pm using AcqMethod DUALFID8 Acquisition.M
Instrument :   FUELS8
Sample Name: 3E30066-CCV2
Misc Info :   ERR
Vial Number: 2



Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Thursday, August 24, 2023

Sarah Snyder
Farallon-Seattle
1809 7th Ave Suite 1111
Seattle, WA 98101

RE: A3H0874 - Centralia Asphalt Plant - 525-031

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3H0874, which was received by the laboratory on 8/7/2023 at 4:58:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: mpoquiz@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information
Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.
(See Cooler Receipt Form for details)
Default Cooler 1.6 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

Michele Poquiz For Kurt Johnson, Senior Chemist

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

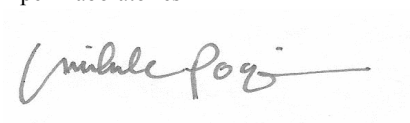
Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3H0874 - 08 24 23 1257**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FMW-01-08072023	A3H0874-01	Water	08/07/23 12:23	08/07/23 16:58
FMW-02-08072023	A3H0874-02	Water	08/07/23 13:20	08/07/23 16:58
FMW-03-08072023	A3H0874-03	Water	08/07/23 14:20	08/07/23 16:58
FMW-04-08072023	A3H0874-04	Water	08/07/23 11:19	08/07/23 16:58

Apex Laboratories



Michele Poquiz For Kurt Johnson, Senior Chemist

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APEX LABORATORIES

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3H0874 - 08 24 23 1257**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FMW-01-08072023 (A3H0874-01)				**Matrix: Water**		**Batch: 23H0432**		
Diesel	**86.6**	40.8	81.6	ug/L	1	08/11/23 22:05	NWTPH-Dx LL	**F-11**
Oil	ND	81.6	163	ug/L	1	08/11/23 22:05	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 87 %*		*Limits: 50-150 %*	*1*	*08/11/23 22:05*	*NWTPH-Dx LL*	
FMW-02-08072023 (A3H0874-02)				**Matrix: Water**		**Batch: 23H0432**		
Diesel	**165**	42.1	84.2	ug/L	1	08/11/23 22:28	NWTPH-Dx LL	**F-11**
Oil	ND	84.2	168	ug/L	1	08/11/23 22:28	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 90 %*		*Limits: 50-150 %*	*1*	*08/11/23 22:28*	*NWTPH-Dx LL*	
FMW-03-08072023 (A3H0874-03)				**Matrix: Water**		**Batch: 23H0432**		
Diesel	**126**	42.1	84.2	ug/L	1	08/11/23 22:52	NWTPH-Dx LL	**F-11**
Oil	ND	84.2	168	ug/L	1	08/11/23 22:52	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 88 %*		*Limits: 50-150 %*	*1*	*08/11/23 22:52*	*NWTPH-Dx LL*	
FMW-04-08072023 (A3H0874-04)				**Matrix: Water**		**Batch: 23H0432**		
Diesel	**242**	41.2	82.5	ug/L	1	08/11/23 23:15	NWTPH-Dx LL	**F-11**
Oil	ND	82.5	165	ug/L	1	08/11/23 23:15	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 93 %*		*Limits: 50-150 %*	*1*	*08/11/23 23:15*	*NWTPH-Dx LL*	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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APEX LABORATORIES

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3H0874 - 08 24 23 1257**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FMW-01-08072023 (A3H0874-01)				**Matrix: Water**		**Batch: 23H0715**		
Diesel	ND	40.8	81.6	ug/L	1	08/18/23 22:30	NWTPH-Dx/SGC	
Oil	ND	81.6	163	ug/L	1	08/18/23 22:30	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 81 %*		*Limits: 50-150 %*	*1*	*08/18/23 22:30*	*NWTPH-Dx/SGC*	
FMW-02-08072023 (A3H0874-02)				**Matrix: Water**		**Batch: 23H0715**		
Diesel	ND	42.1	84.2	ug/L	1	08/18/23 22:54	NWTPH-Dx/SGC	
Oil	ND	84.2	168	ug/L	1	08/18/23 22:54	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 81 %*		*Limits: 50-150 %*	*1*	*08/18/23 22:54*	*NWTPH-Dx/SGC*	
FMW-03-08072023 (A3H0874-03)				**Matrix: Water**		**Batch: 23H0715**		
Diesel	ND	42.1	84.2	ug/L	1	08/18/23 23:17	NWTPH-Dx/SGC	
Oil	ND	84.2	168	ug/L	1	08/18/23 23:17	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 82 %*		*Limits: 50-150 %*	*1*	*08/18/23 23:17*	*NWTPH-Dx/SGC*	
FMW-04-08072023 (A3H0874-04)				**Matrix: Water**		**Batch: 23H0715**		
Diesel	**59.7**	41.2	82.5	ug/L	1	08/18/23 23:41	NWTPH-Dx/SGC	**J**
Oil	ND	82.5	165	ug/L	1	08/18/23 23:41	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 83 %*		*Limits: 50-150 %*	*1*	*08/18/23 23:41*	*NWTPH-Dx/SGC*	

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Michele Poquiz For Kurt Johnson, Senior Chemist

APEX LABORATORIES

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3H0874 - 08 24 23 1257**

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0432 - EPA 3510C (Fuels/Acid Ext.)									**Water**			
Blank (23H0432-BLK1)				Prepared: 08/11/23 06:42		Analyzed: 08/11/23 20:54						
NWTPH-Dx LL												
Diesel	ND	40.0	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	80.0	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 77 %*	*Limits: 50-150 %*		*Dilution: 1x*						
LCS (23H0432-BS1)				Prepared: 08/11/23 06:42		Analyzed: 08/11/23 21:18						
NWTPH-Dx LL												
Diesel	414	40.0	80.0	ug/L	1	500	---	83	36-132%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 90 %*	*Limits: 50-150 %*		*Dilution: 1x*						
LCS Dup (23H0432-BSD1)				Prepared: 08/11/23 06:42		Analyzed: 08/11/23 21:41						**Q-19**
NWTPH-Dx LL												
Diesel	388	40.0	80.0	ug/L	1	500	---	78	36-132%	7	30%	
Surr: o-Terphenyl (Surr)			*Recovery: 87 %*	*Limits: 50-150 %*		*Dilution: 1x*						

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ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3H0874 - 08 24 23 1257**

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23H0715 - EPA 3510C (Fuels/Acid Ext.) w/Silica Gel Column									**Water**			
Blank (23H0715-BLK1)				Prepared: 08/11/23 06:42		Analyzed: 08/18/23 21:20						
NWTPH-Dx/SGC												
Diesel	ND	40.0	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	80.0	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 75 %*	*Limits: 50-150 %*		*Dilution: 1x*						
LCS (23H0715-BS1)				Prepared: 08/11/23 06:42		Analyzed: 08/18/23 21:43						
NWTPH-Dx/SGC												
Diesel	375	40.0	80.0	ug/L	1	500	---	75	36-132%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 83 %*	*Limits: 50-150 %*		*Dilution: 1x*						
LCS Dup (23H0715-BSD1)				Prepared: 08/11/23 06:42		Analyzed: 08/18/23 22:07						**Q-19**
NWTPH-Dx/SGC												
Diesel	334	40.0	80.0	ug/L	1	500	---	67	36-132%	12	30%	
Surr: o-Terphenyl (Surr)			*Recovery: 75 %*	*Limits: 50-150 %*		*Dilution: 1x*						

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ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3H0874 - 08 24 23 1257**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23H0432							
A3H0874-01	Water	NWTPH-Dx LL	08/07/23 12:23	08/11/23 06:42	980mL/2mL	1000mL/2mL	1.02
A3H0874-02	Water	NWTPH-Dx LL	08/07/23 13:20	08/11/23 06:42	950mL/2mL	1000mL/2mL	1.05
A3H0874-03	Water	NWTPH-Dx LL	08/07/23 14:20	08/11/23 06:42	950mL/2mL	1000mL/2mL	1.05
A3H0874-04	Water	NWTPH-Dx LL	08/07/23 11:19	08/11/23 06:42	970mL/2mL	1000mL/2mL	1.03

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Prep: EPA 3510C (Fuels/Acid Ext.) w/Silica Gel Column

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23H0715							
A3H0874-01	Water	NWTPH-Dx/SGC	08/07/23 12:23	08/11/23 06:42	980mL/2mL	1000mL/2mL	1.02
A3H0874-02	Water	NWTPH-Dx/SGC	08/07/23 13:20	08/11/23 06:42	950mL/2mL	1000mL/2mL	1.05
A3H0874-03	Water	NWTPH-Dx/SGC	08/07/23 14:20	08/11/23 06:42	950mL/2mL	1000mL/2mL	1.05
A3H0874-04	Water	NWTPH-Dx/SGC	08/07/23 11:19	08/11/23 06:42	970mL/2mL	1000mL/2mL	1.03

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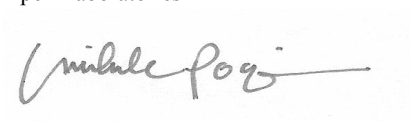

Michele Poquiz For Kurt Johnson, Senior Chemist

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Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3H0874 - 08 24 23 1257**

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

F-11	The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.

Apex Laboratories

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ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3H0874 - 08 24 23 1257**

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a “dry weight” basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an “As Received” basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

Michele Poquiz For Kurt Johnson, Senior Chemist

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503-718-2323
ORELAP ID: **OR100062**

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3H0874 - 08 24 23 1257**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3H0874 - 08 24 23 1257**

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
All reported analytes are included in Apex Laboratories' current ORELAP scope.					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Farallon-Seattle
1809 7th Ave Suite 1111
Seattle, WA 98101

Project: **Centralia Asphalt Plant**
Project Number: **525-031**
Project Manager: **Sarah Snyder**

Report ID:
A3H0874 - 08 24 23 1257

APEX LABS

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # A3H0874 COC 1 of 1

Company: Farallon | Project Mgr: Sarah Snyder | Project Name: Former Asphalt Batch plant | Project #: 525-031

Address: 975 5th Ave NW Issaquah WA | Phone: 717-385-0268 | Email: SSnyder@farallonconsulting.com | PO # 525-031

Sampled by:

Site Location: State Washington, County Lewis

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx *	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	AL, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive
FMW-01-08072023	8/7	1223	GW	2		X															
FMW-02-08072023	8/7	1320	↓	↓		X															
FMW-03-08072023	↓	1420	↓	↓		X															
FMW-04-08072023	↓	1119	↓	↓		X															

SK

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day, 2 Day, 3 Day, 5 Day, (Standard), Other: ____

SAMPLES ARE HELD FOR 30 DAYS

SPECIAL INSTRUCTIONS: * with + without silica gel cleanup

	RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature	[signature]	[signature]		[signature]
Date	8-7-23	8.7.2023		8/7/23
Time	1452	14:52		1653
Printed Name	Sarah Katz	Jose Mauro		[signature]
Company	Farallon	EVCO		Apex

Form Y-002 R-00

Apex Laboratories, LLC
6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3H0874 - 08 24 23 1257**

APEX LABS COOLER RECEIPT FORM

Client: Farallon Element WO#: A3H0874

Project/Project #: Former Asphalt Batch Plant / 525-031

Delivery Info:

Date/time received: 8/7/23 @ 1658 By: MS

Delivered by: Apex Client ~~X~~ ESS FedEx UPS Radio Morgan SDS Evergreen Other EVCO 8/8/23

Cooler Inspection Date/time inspected: 8/7/23 @ 1658 By: MS

Chain of Custody included? Yes X No

Signed/dated by client? Yes X No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	1.6						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

Cooler out of temp? (Y (N) Possible reason why:

Green dots applied to out of temperature samples? Yes (No)

Out of temperature samples form initiated? Yes (No)

Sample Inspection: Date/time inspected: 8/8/23 @ 12:14 By: AAW

All samples intact? Yes X No ___ Comments:

Bottle labels/COCs agree? Yes X No ___ Comments:

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments:

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments

Water samples: pH checked: Yes X No ___ NA ___ pH appropriate? Yes X No ___ NA ___

Comments:

Additional information:

Labeled by: AAW Witness: KAM Cooler Inspected by: AAW

Form Y-003 R-00

Apex Laboratories

Michele Poquiz

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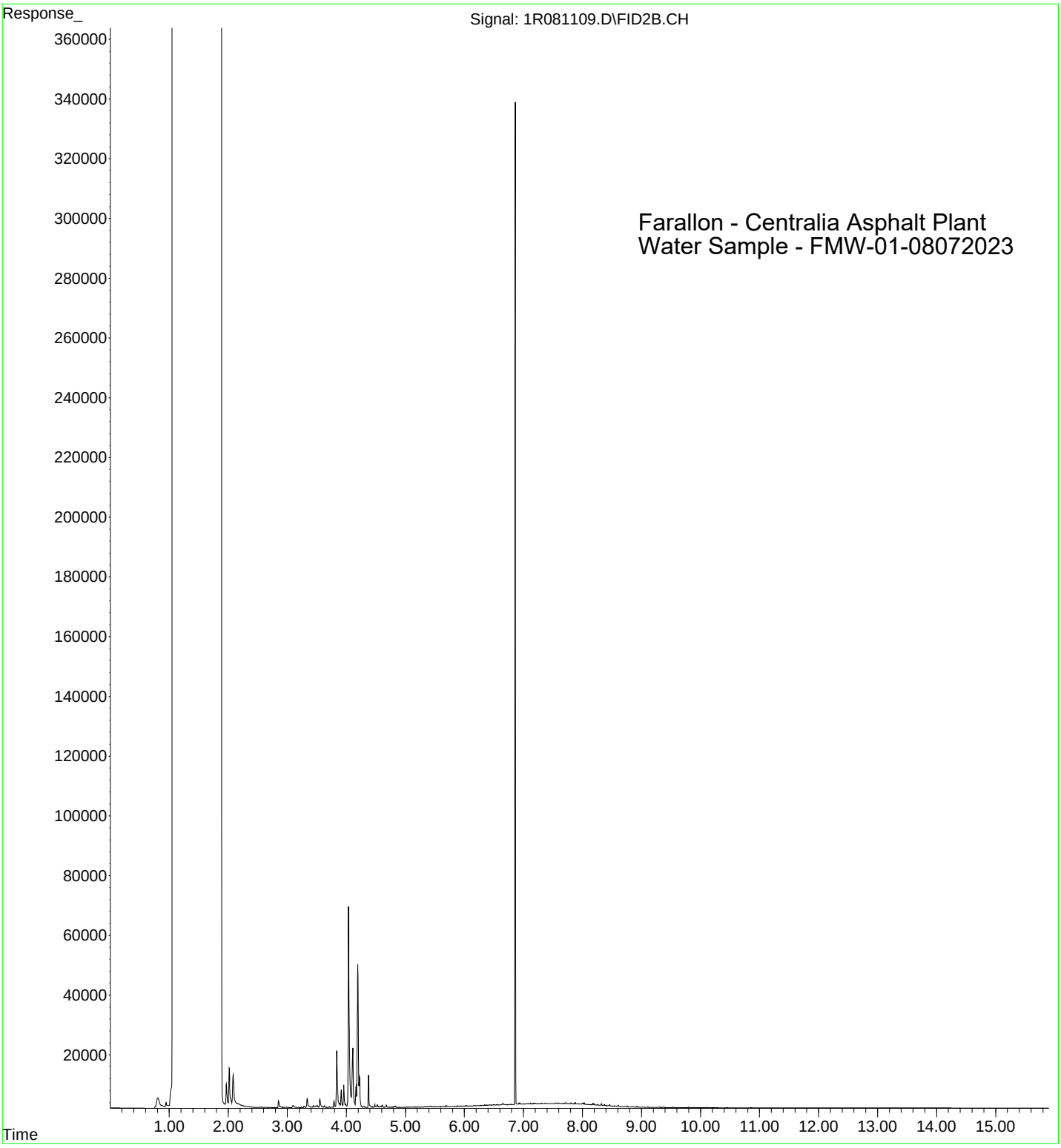
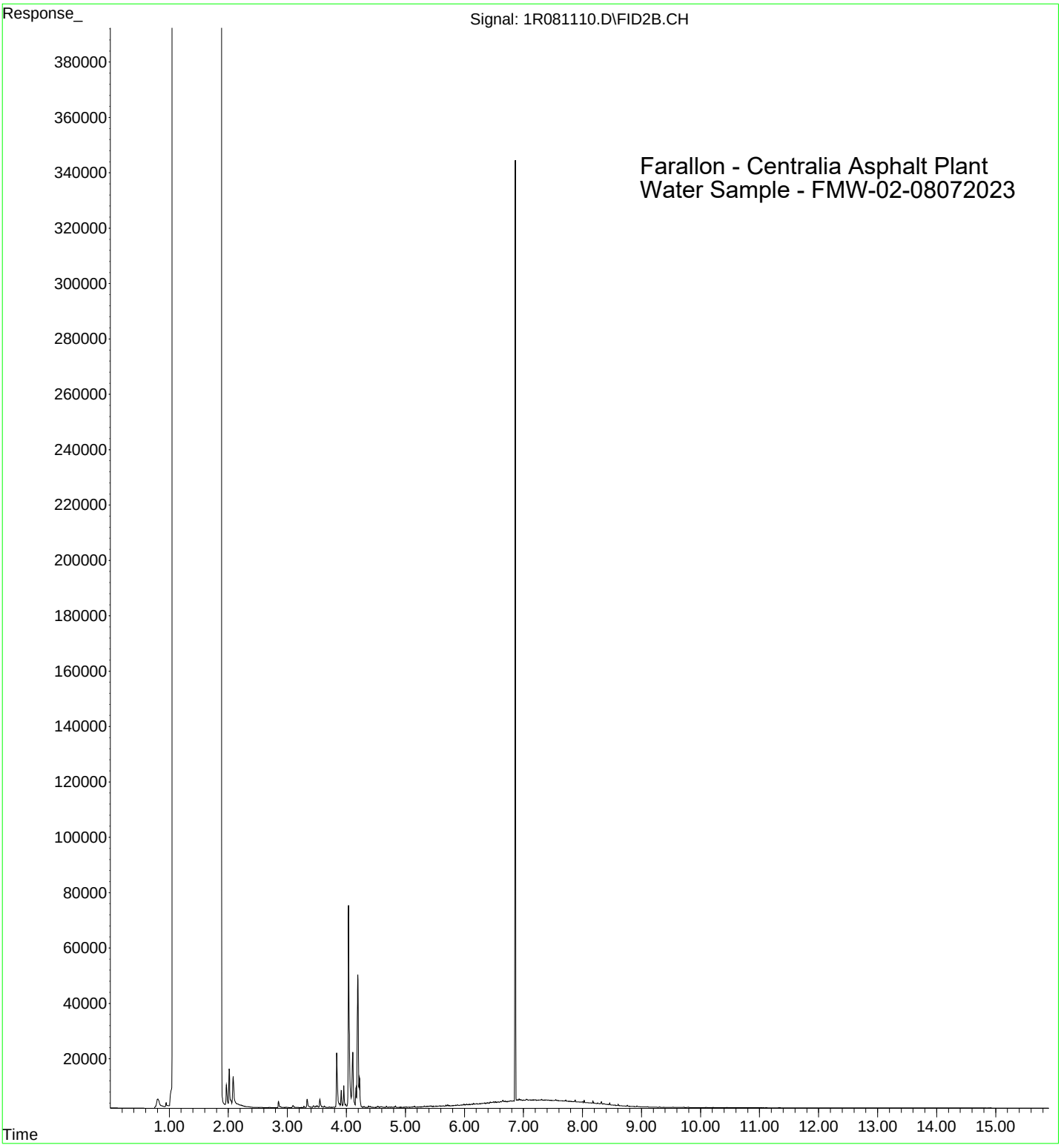
Michele Poquiz For Kurt Johnson, Senior Chemist

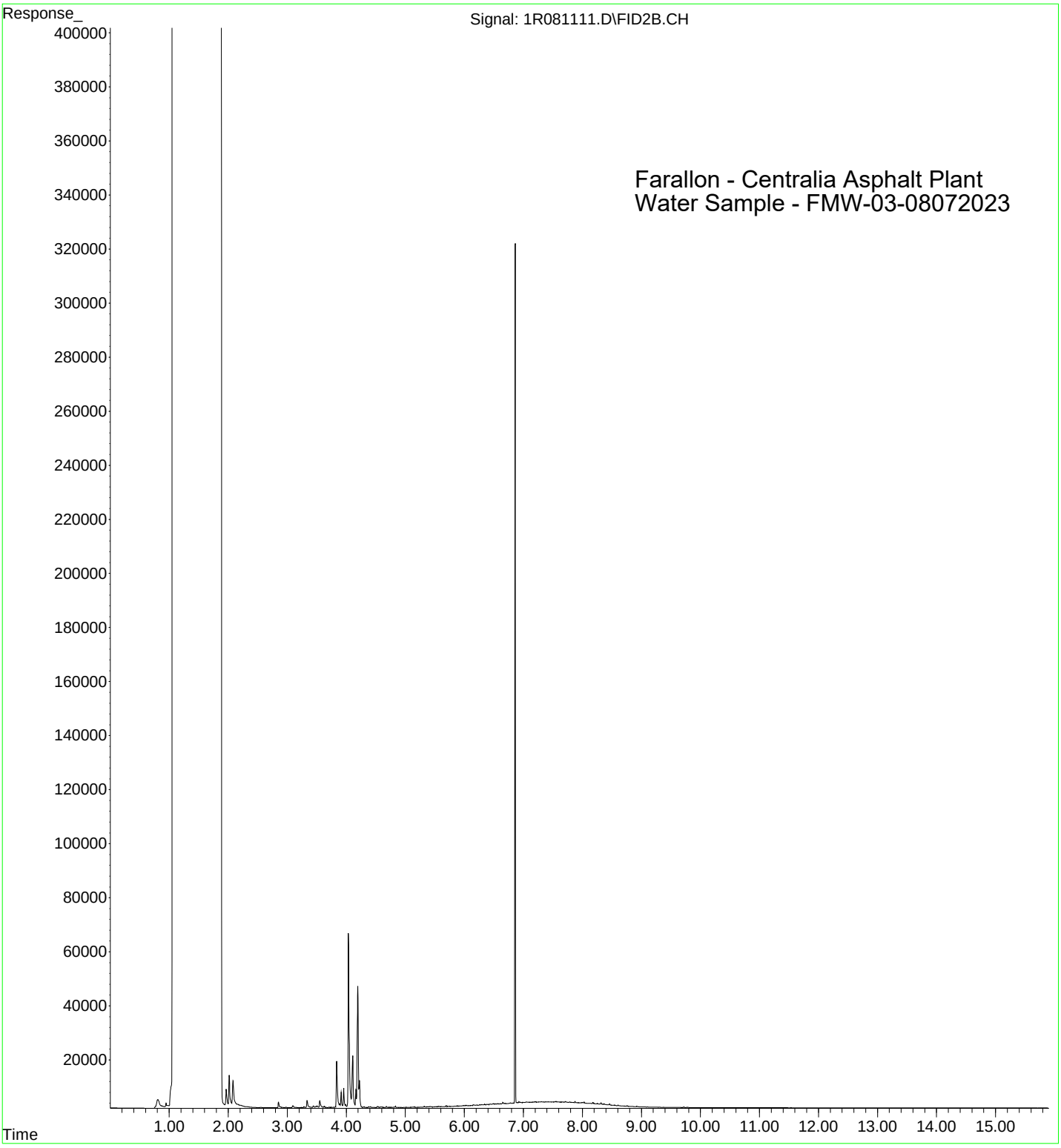
File :C:\gcms\1\data\3H11031\1R081109.D
Operator : BLL
Acquired : 11 Aug 2023 22:05 using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A3H0874-01
Misc Info :
Vial Number: 54



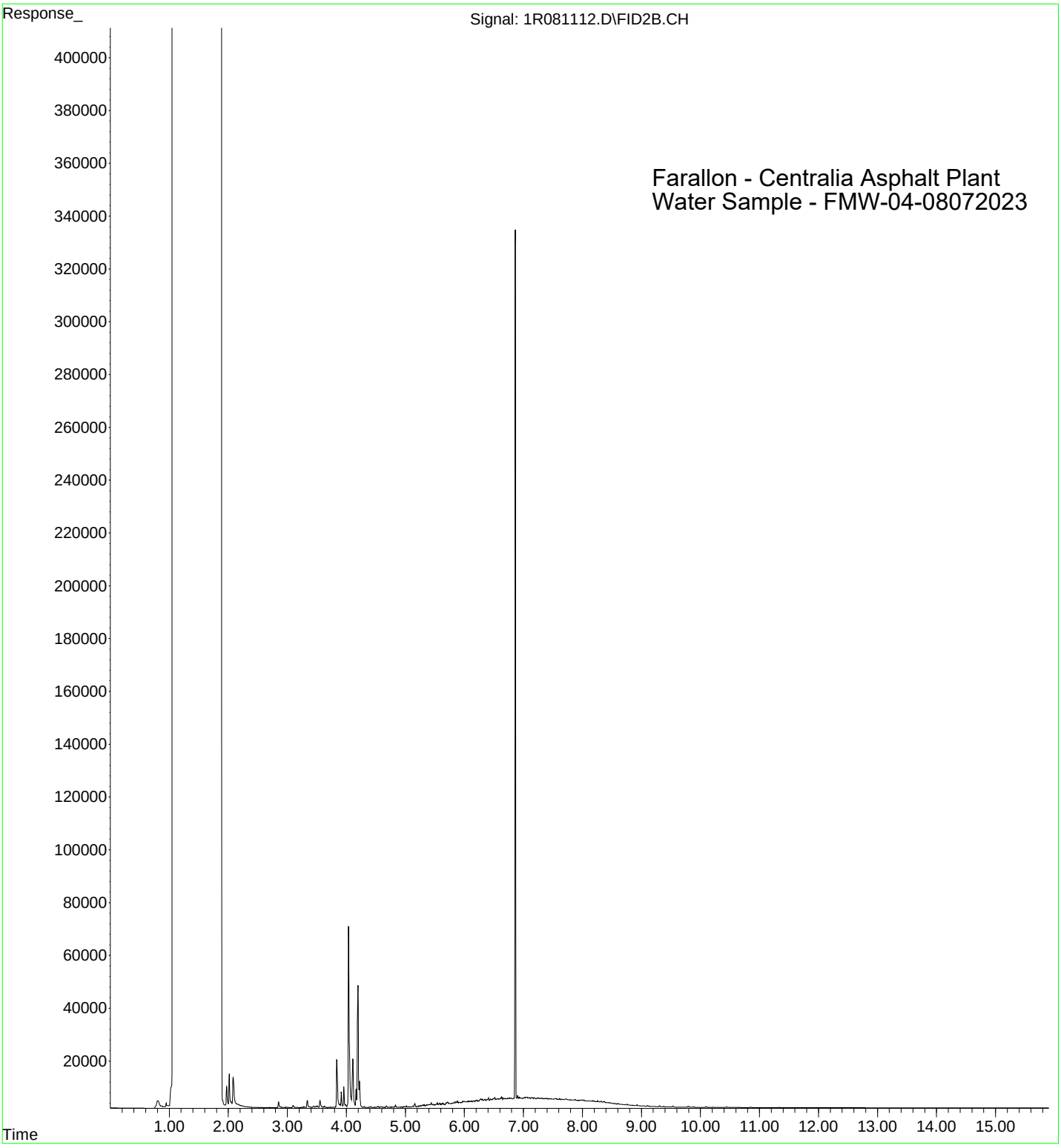
File   :C:\gcms\1\data\3H11031\1R081110.D
Operator   : BLL
Acquired   : 11 Aug 2023 22:28   using AcqMethod A1F40422.M
Instrument :   HP G1530A
Sample Name: A3H0874-02
Misc Info :
Vial Number: 55



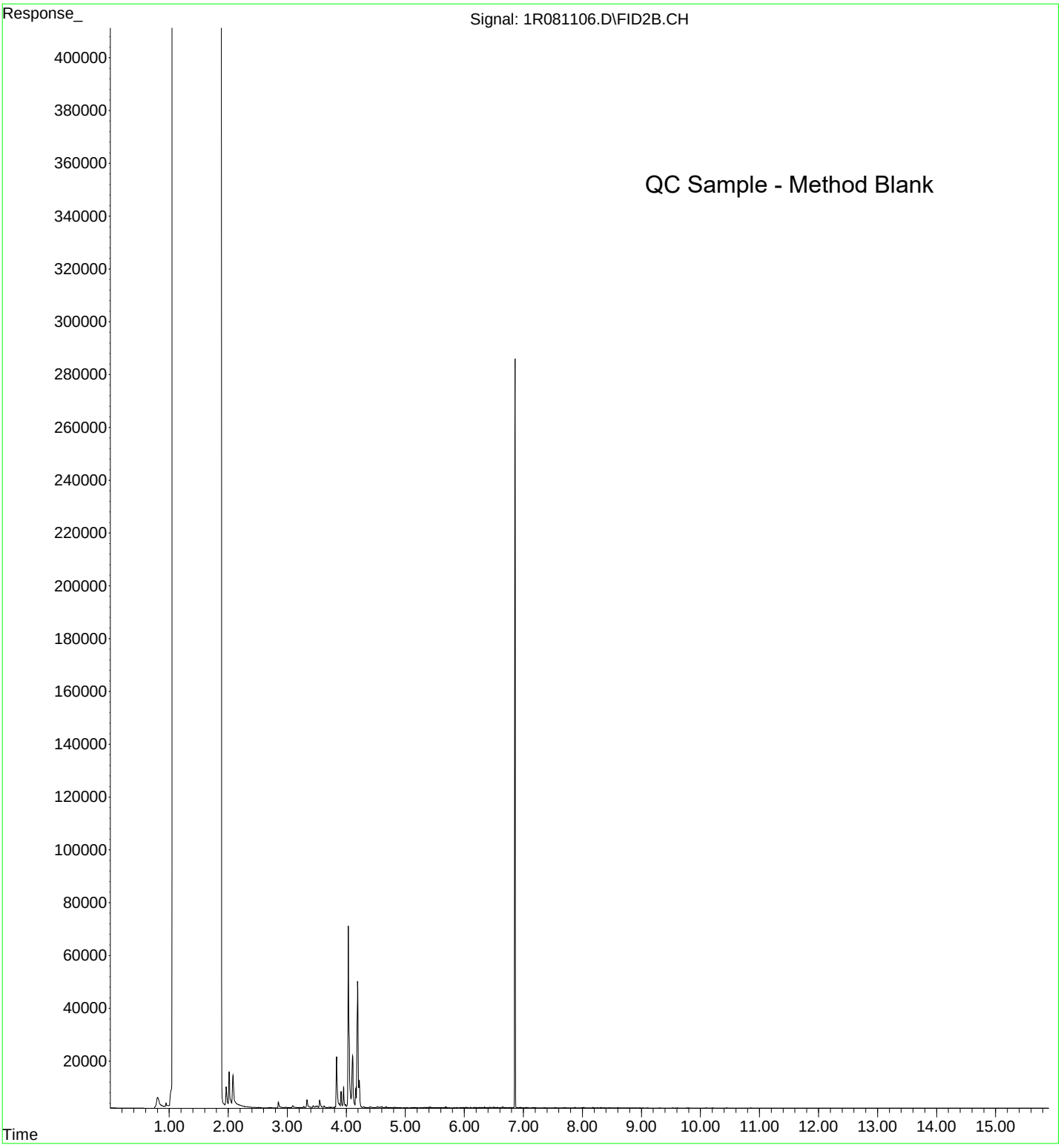
File :C:\gcms\1\data\3H11031\1R081111.D
Operator : BLL
Acquired : 11 Aug 2023 22:52 using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A3H0874-03
Misc Info :
Vial Number: 56



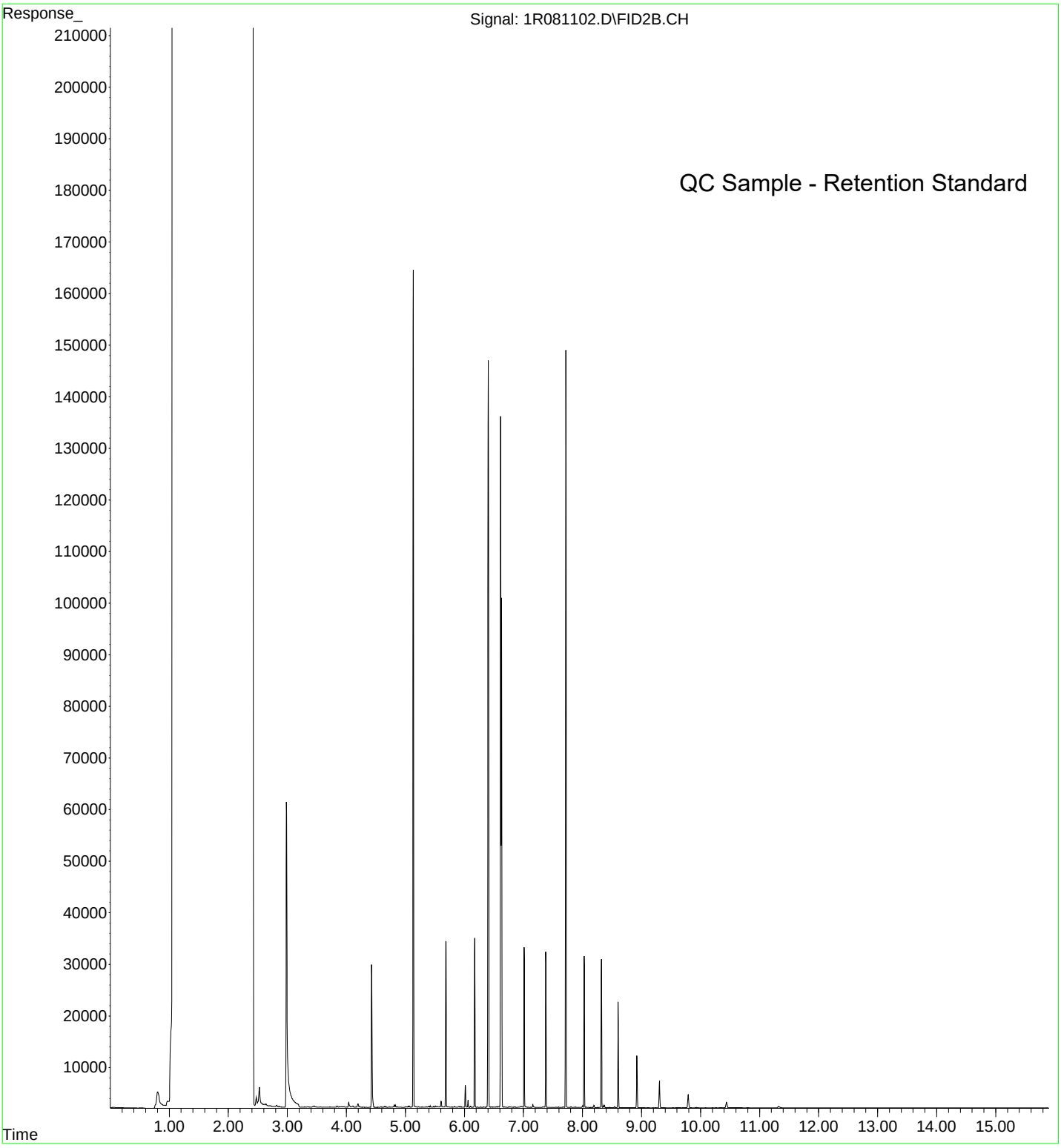
File :C:\gcms\1\data\3H11031\1R081112.D
Operator : BLL
Acquired : 11 Aug 2023 23:15 using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A3H0874-04
Misc Info :
Vial Number: 57



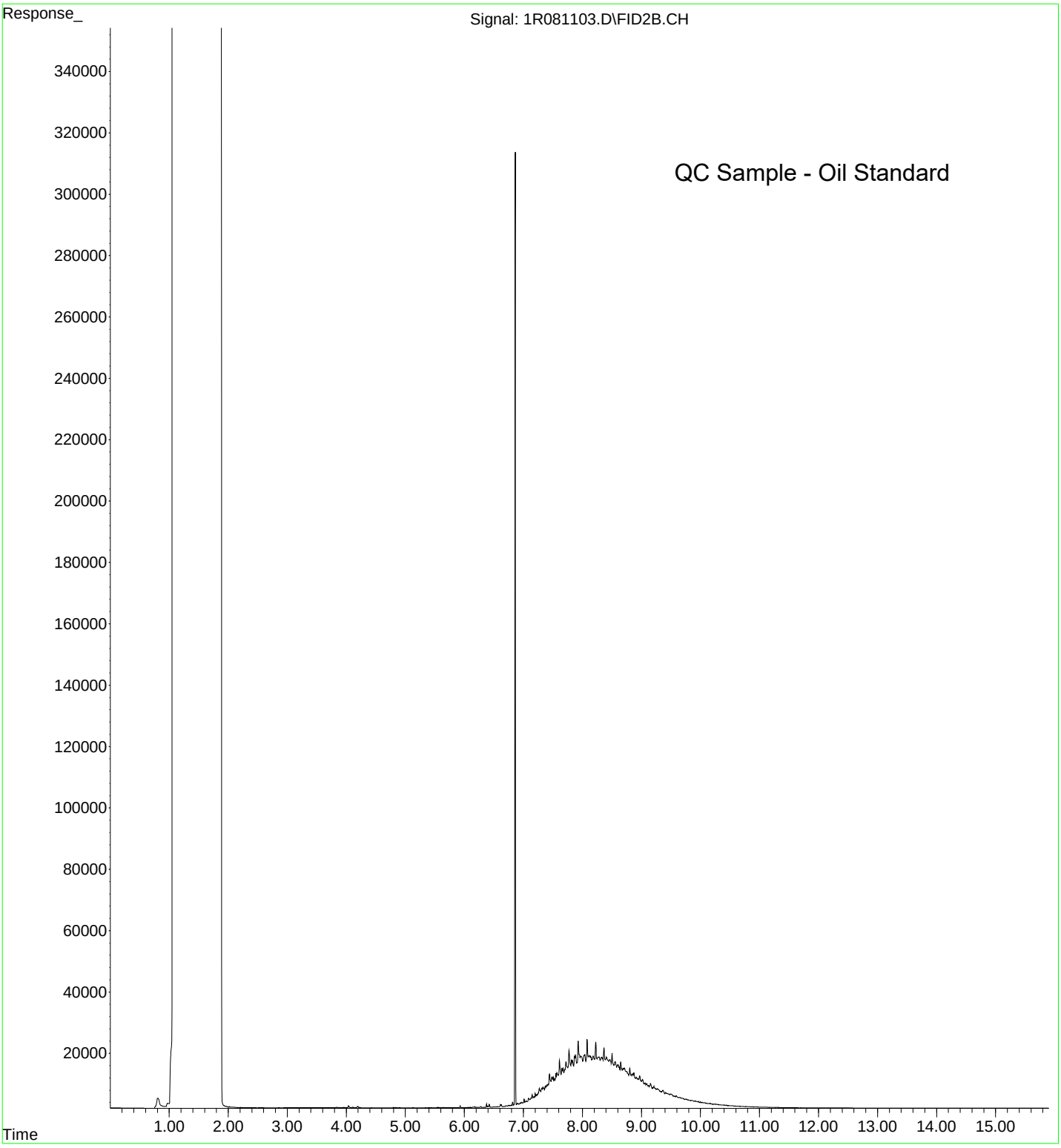
File   :C:\gcms\1\data\3H11031\1R081106.D
Operator   : BLL
Acquired   : 11 Aug 2023 20:54   using AcqMethod A1F40422.M
Instrument :   HP G1530A
Sample Name: 23H0432-BLK1
Misc Info :
Vial Number: 51



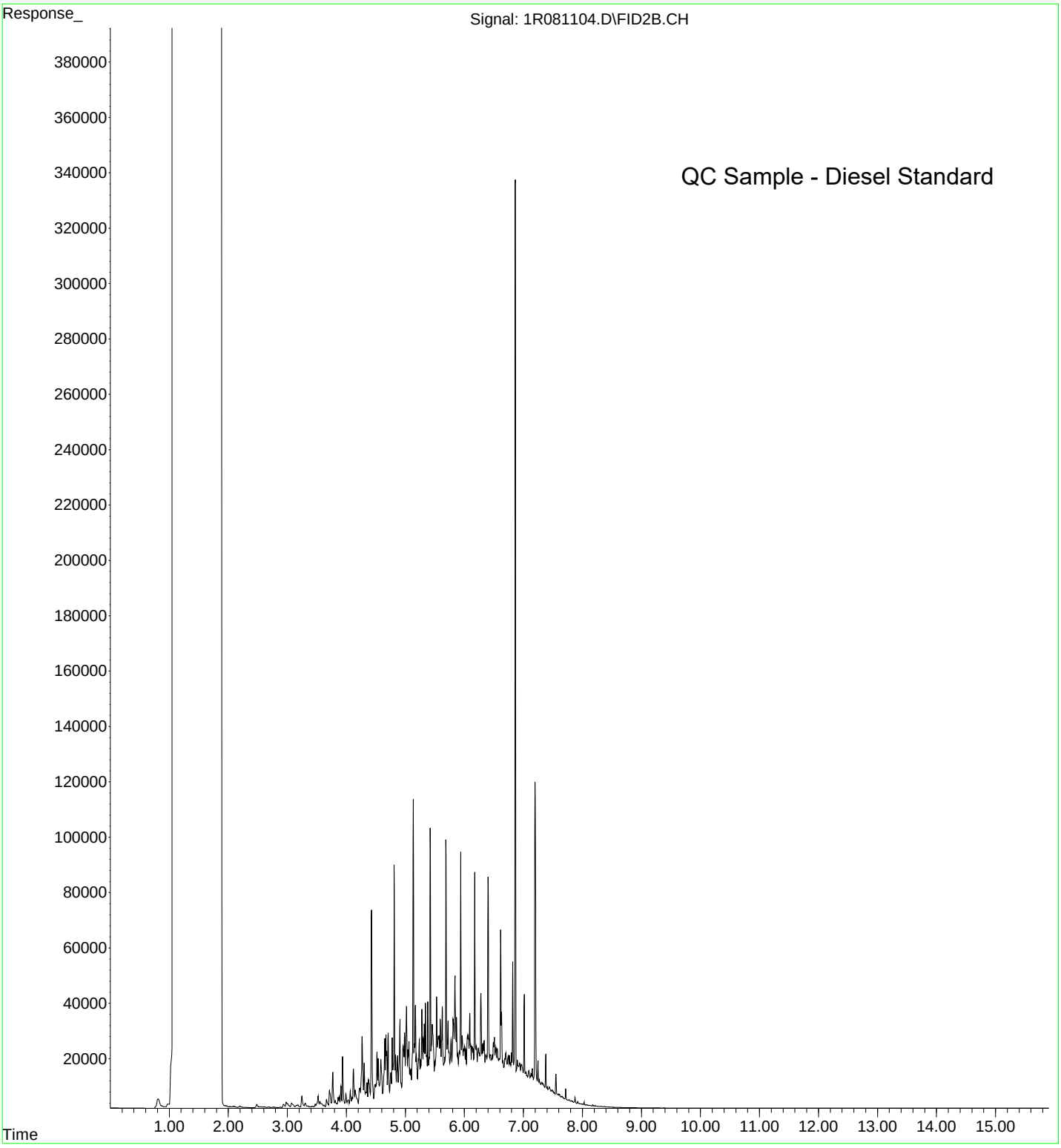
File   :C:\gcms\1\data\3H11031\1R081102.D
Operator   : BLL
Acquired   : 11 Aug 2023 12:51   using AcqMethod A1F40422.M
Instrument :   HP G1530A
Sample Name: 3H11031-RES1
Misc Info :
Vial Number: 95



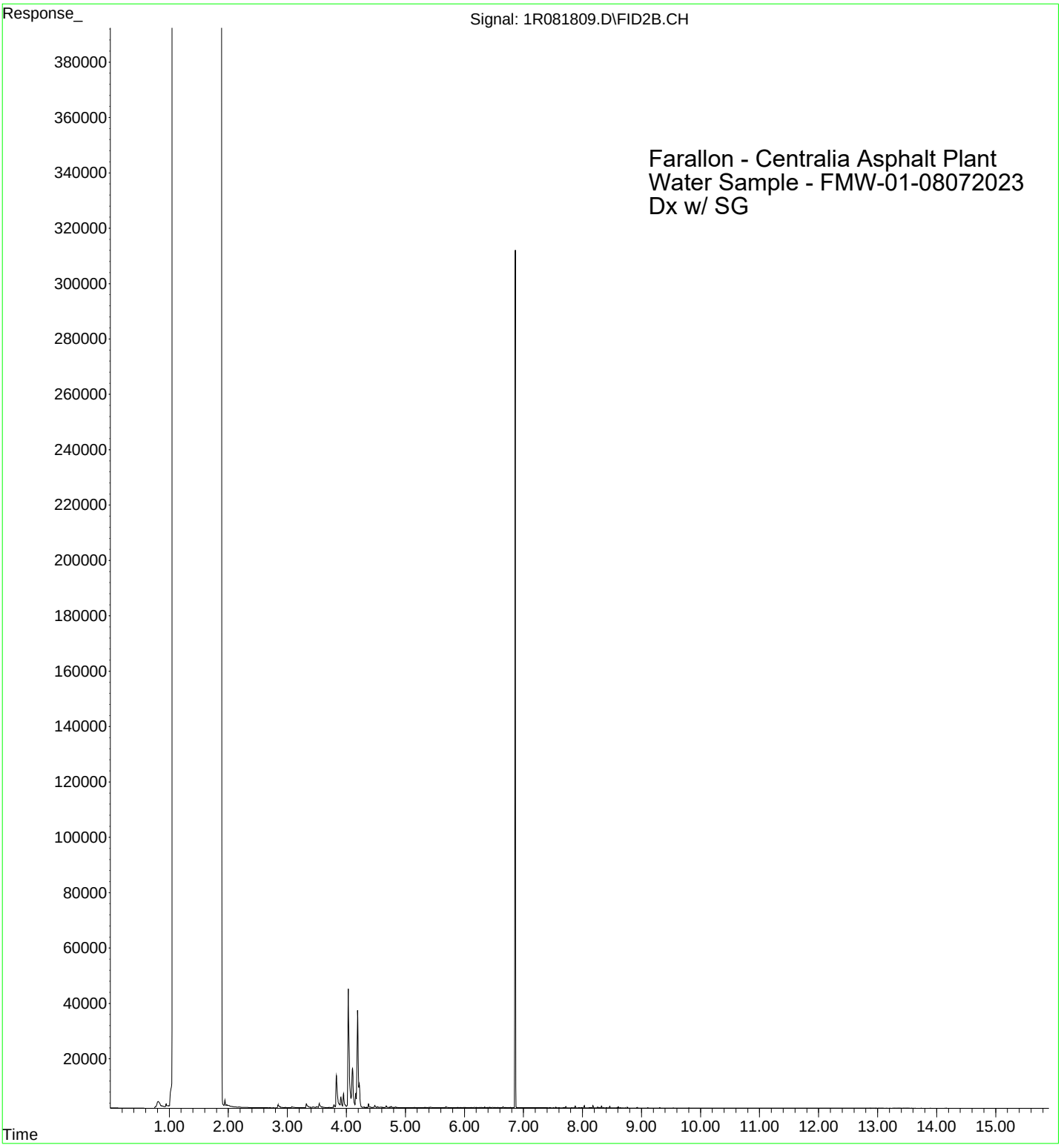
File   :C:\gcms\1\data\3H11031\1R081103.D
Operator   : BLL
Acquired   : 11 Aug 2023 13:16   using AcqMethod A1F40422.M
Instrument :   HP G1530A
Sample Name: 3H11031-CCV1
Misc Info :
Vial Number: 2



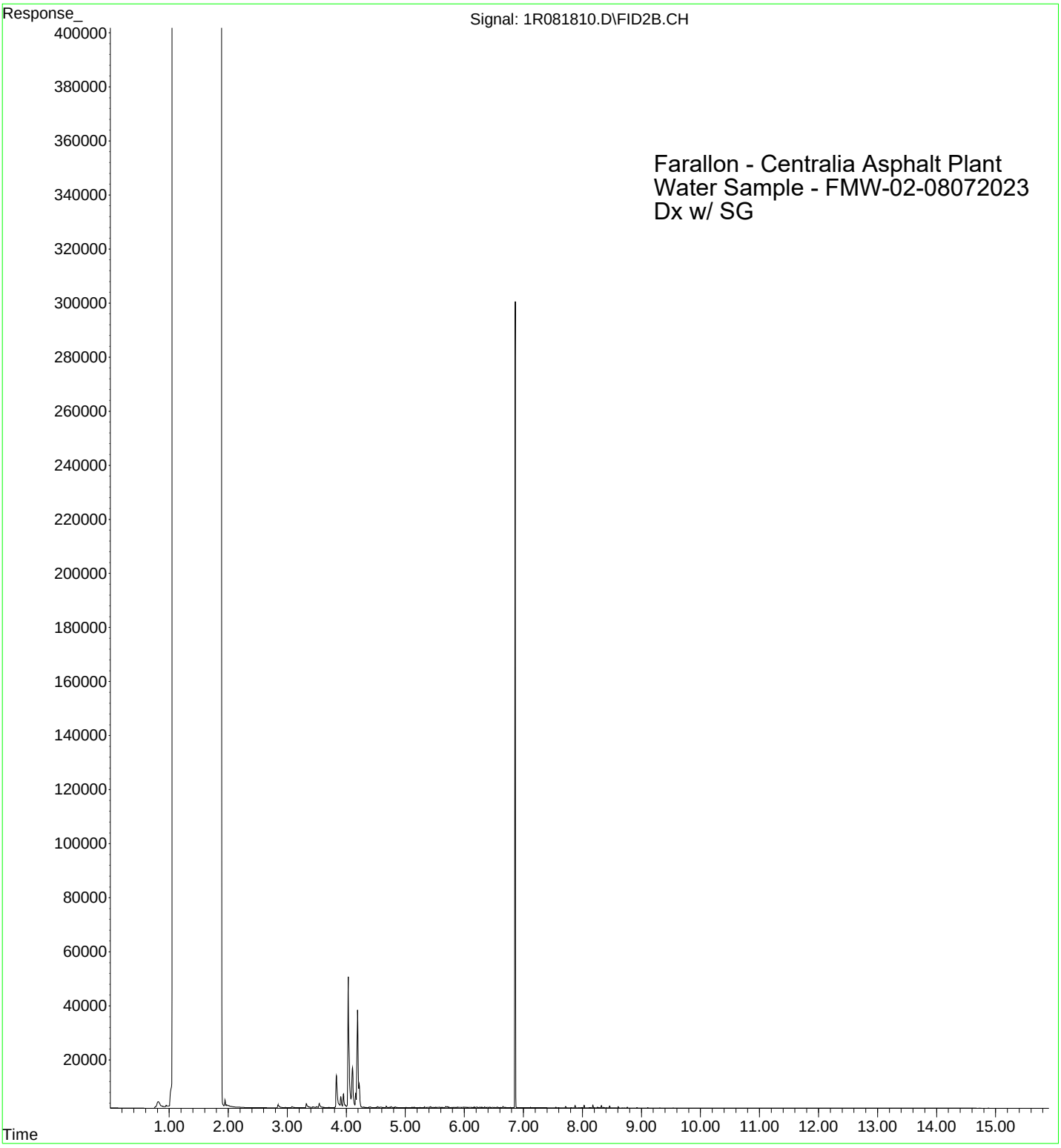
File   :C:\gcms\1\data\3H11031\1R081104.D
Operator   : BLL
Acquired   : 11 Aug 2023 13:40   using AcqMethod A1F40422.M
Instrument :   HP G1530A
Sample Name: 3H11031-CCV2
Misc Info :
Vial Number: 1



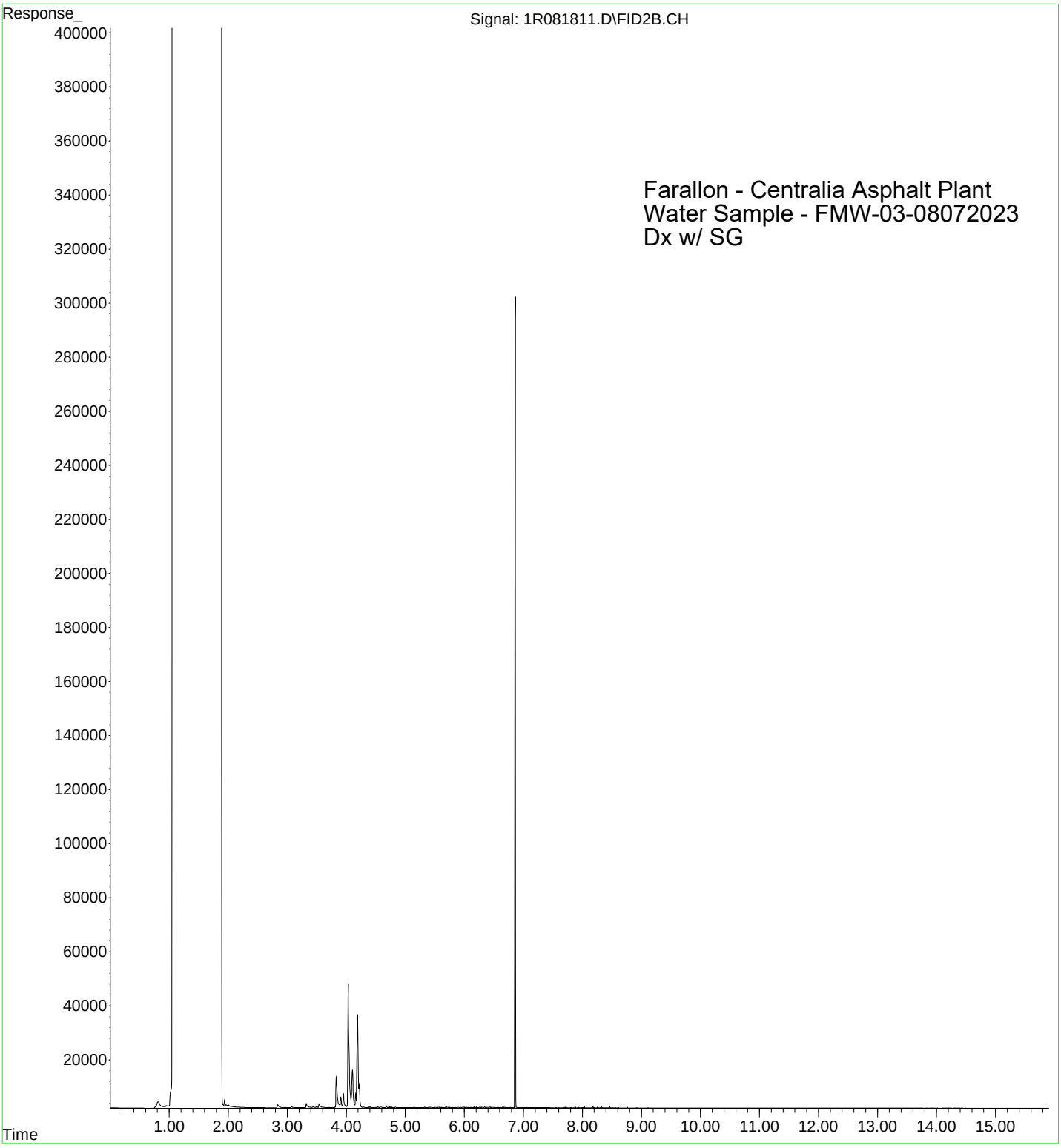
File   :C:\gcms\1\data\3H18032\1R081809.D
Operator   : BLL
Acquired   : 18 Aug 2023 22:30   using AcqMethod A1F40422.M
Instrument :   HP G1530A
Sample Name: A3H0874-01
Misc Info :
Vial Number: 54



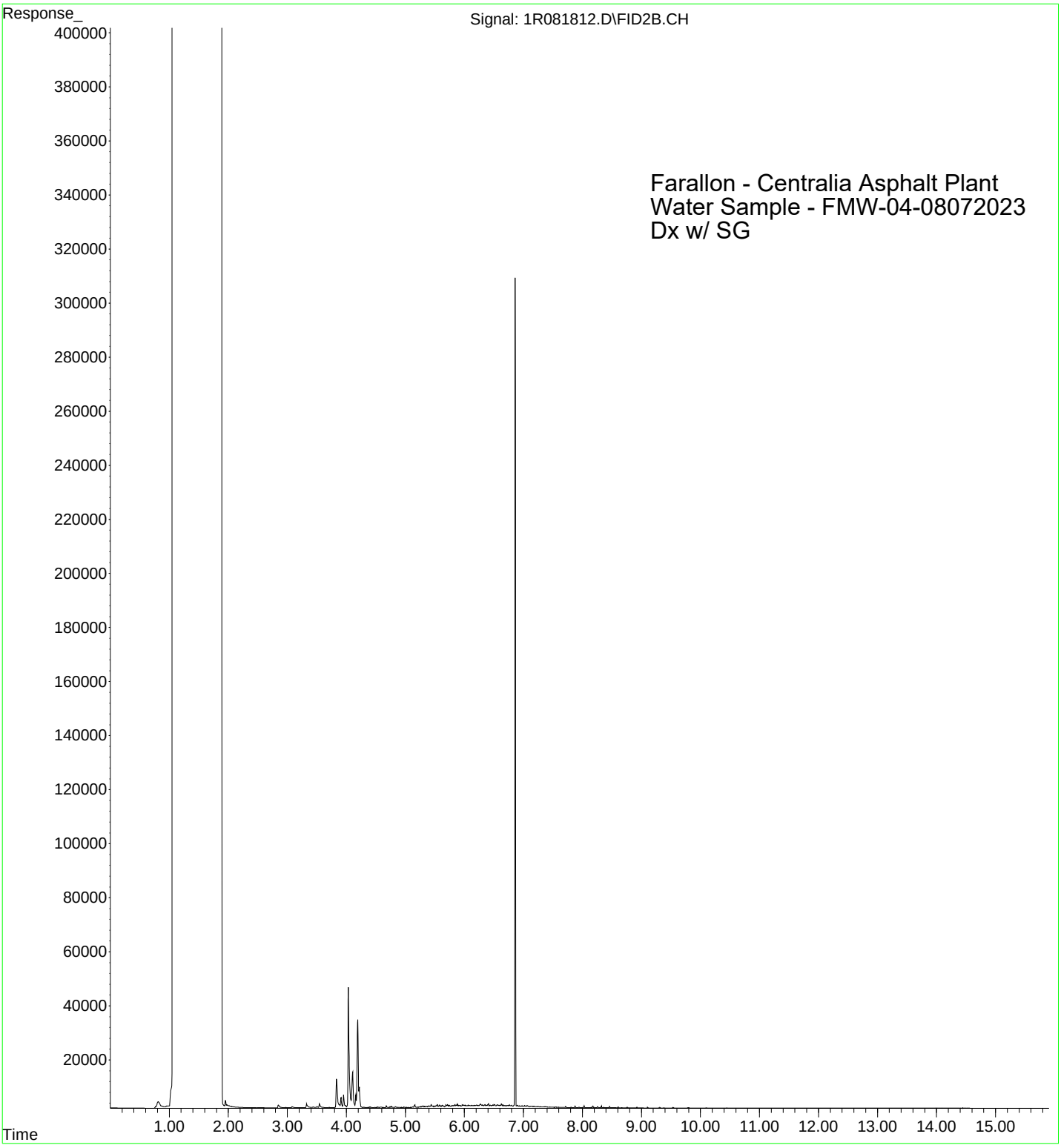
File :C:\gcms\1\data\3H18032\1R081810.D
Operator : BLL
Acquired : 18 Aug 2023 22:54 using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A3H0874-02
Misc Info :
Vial Number: 55



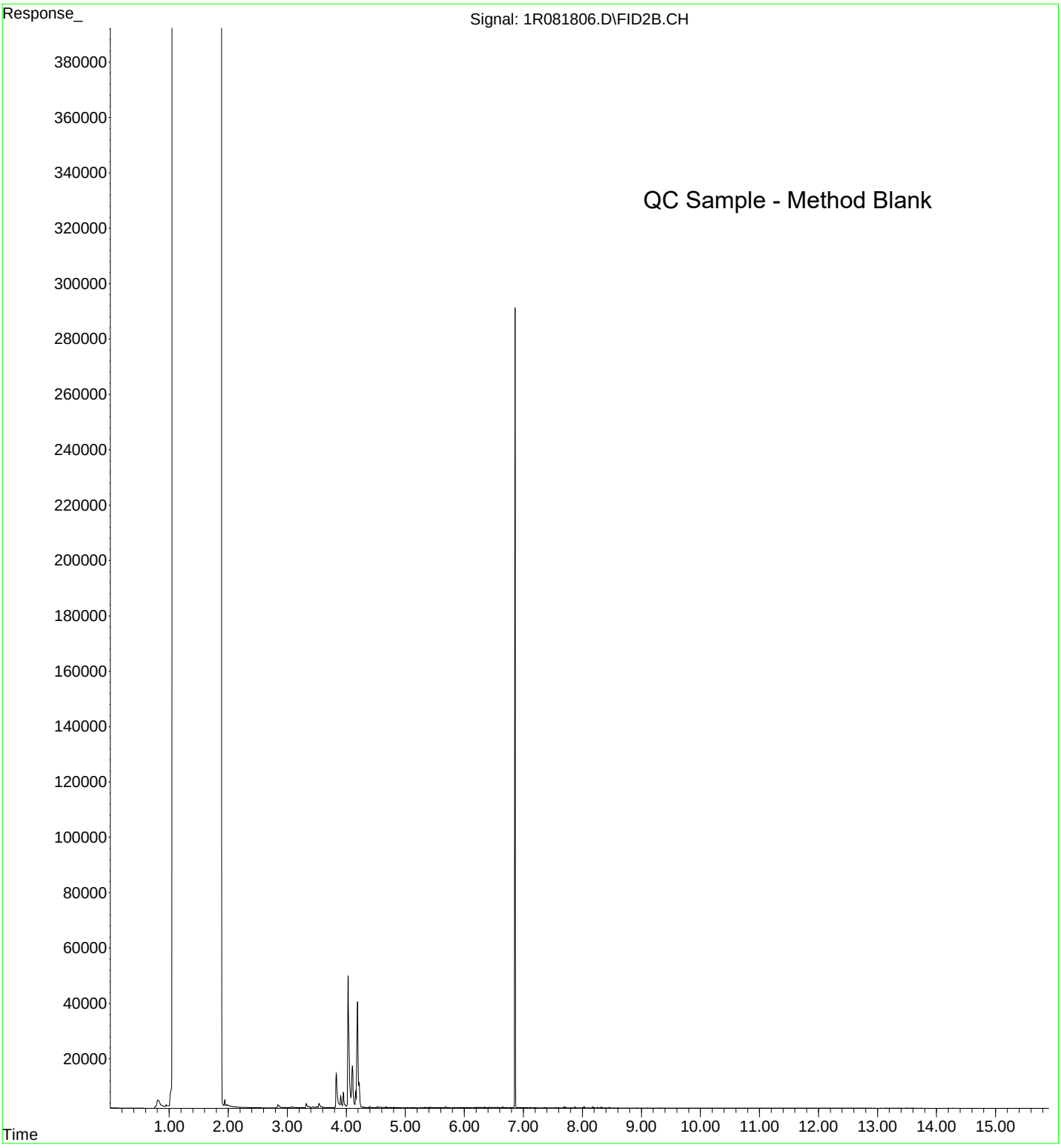
File :C:\gcms\1\data\3H18032\1R081811.D
Operator : BLL
Acquired : 18 Aug 2023 23:17 using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A3H0874-03
Misc Info :
Vial Number: 56



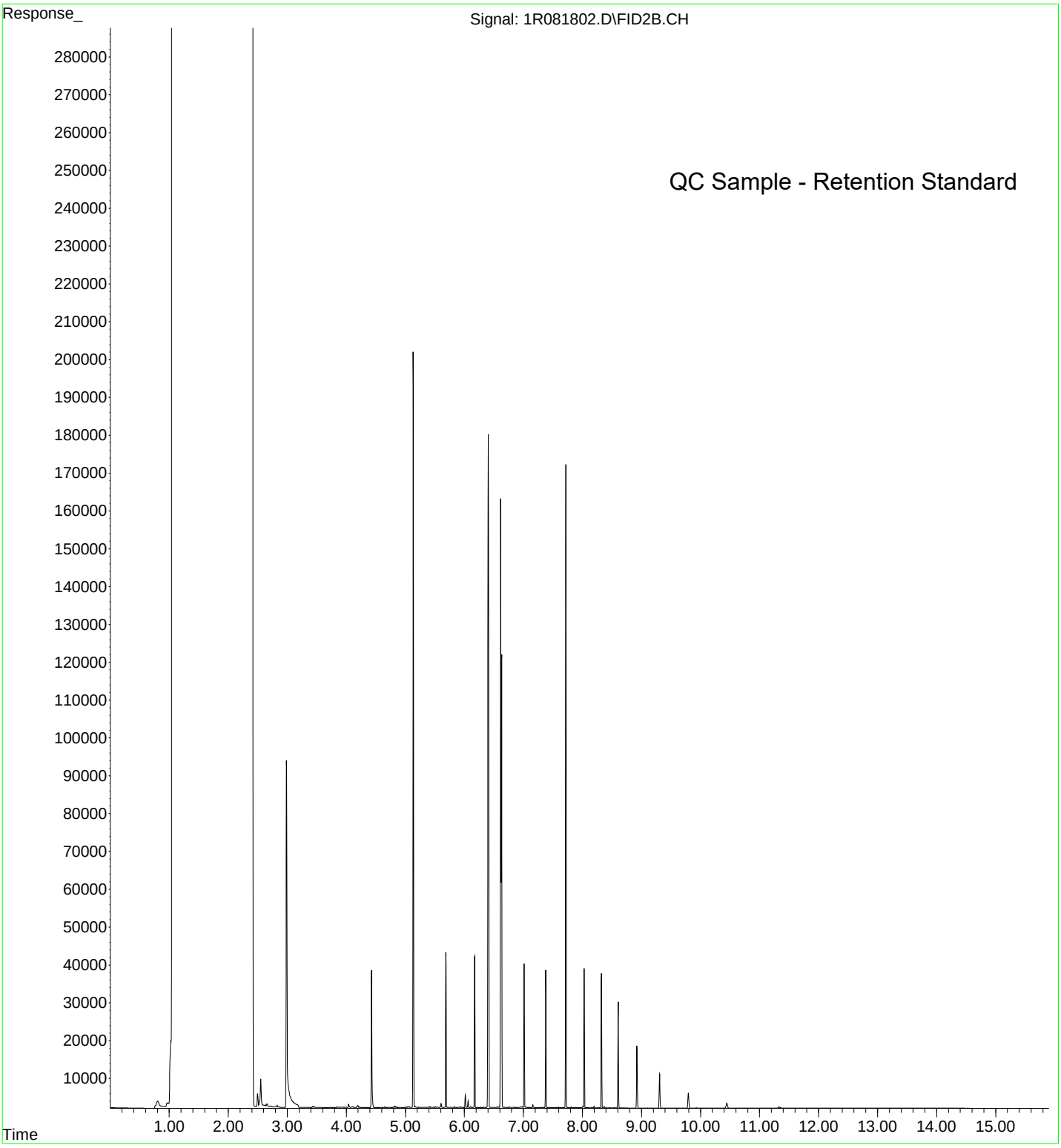
File :C:\gcms\1\data\3H18032\1R081812.D
Operator : BLL
Acquired : 18 Aug 2023 23:41 using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A3H0874-04
Misc Info :
Vial Number: 57



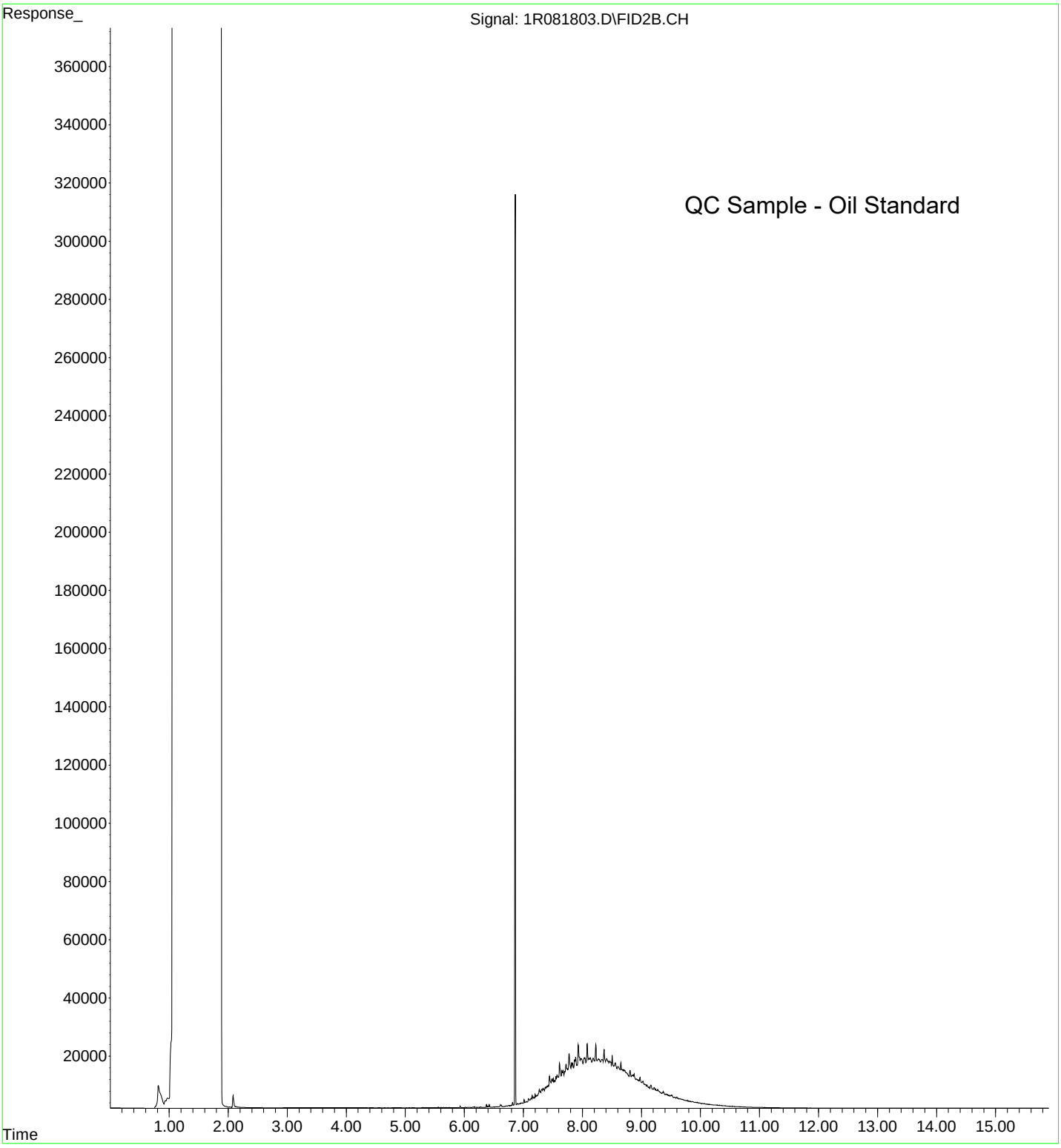
File   :C:\gcms\1\data\3H18032\1R081806.D
Operator   : BLL
Acquired   : 18 Aug 2023 21:20   using AcqMethod A1F40422.M
Instrument :   HP G1530A
Sample Name: 23H0715-BLK1
Misc Info :
Vial Number: 51



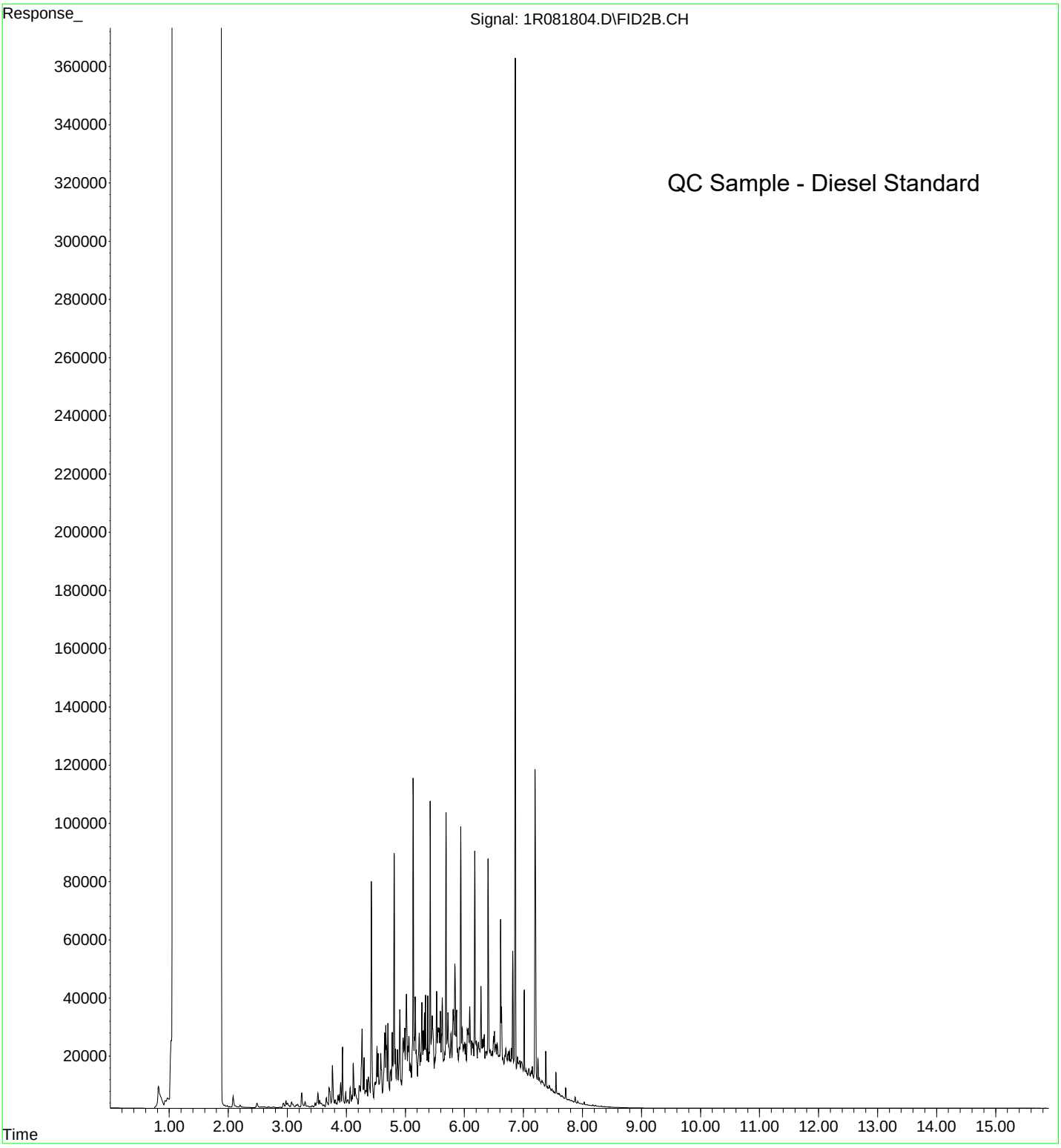
File :C:\gcms\1\data\3H18032\1R081802.D
Operator : BLL
Acquired : 18 Aug 2023 15:57 using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: 3H18032-RES1
Misc Info :
Vial Number: 95



File   :C:\gcms\1\data\3H18032\1R081803.D
Operator   : BLL
Acquired   : 18 Aug 2023 16:21   using AcqMethod A1F40422.M
Instrument :   HP G1530A
Sample Name: 3H18032-CCV1
Misc Info :
Vial Number: 2



File   :C:\gcms\1\data\3H18032\1R081804.D
Operator   : BLL
Acquired   : 18 Aug 2023 16:45   using AcqMethod A1F40422.M
Instrument :   HP G1530A
Sample Name: 3H18032-CCV2
Misc Info :
Vial Number: 1



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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Monday, November 27, 2023

Sarah Snyder
Farallon-Seattle
1809 7th Ave Suite 1111
Seattle, WA 98101

RE: A3K1074 - Centralia Asphalt Plant - 525-031

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3K1074, which was received by the laboratory on 11/6/2023 at 5:55:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: mpoquiz@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information
Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.
(See Cooler Receipt Form for details)
Default Cooler 2.5 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3K1074 - 11 27 23 1012**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FMW-01-11062023	A3K1074-01	Water	11/06/23 11:30	11/06/23 17:55
FMW-02-11062023	A3K1074-02	Water	11/06/23 12:30	11/06/23 17:55
FMW-03-11062023	A3K1074-03	Water	11/06/23 13:27	11/06/23 17:55
FMW-04-11062023	A3K1074-04	Water	11/06/23 14:35	11/06/23 17:55

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ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3K1074 - 11 27 23 1012**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FMW-01-11062023 (A3K1074-01)				**Matrix: Water**		**Batch: 23K0407**		
Diesel	**401**	38.5	76.9	ug/L	1	11/10/23 21:42	NWTPH-Dx LL	**F-11**
Oil	ND	76.9	154	ug/L	1	11/10/23 21:42	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 98 %*		*Limits: 50-150 %*	*1*	*11/10/23 21:42*	*NWTPH-Dx LL*	
FMW-02-11062023 (A3K1074-02)				**Matrix: Water**		**Batch: 23K0407**		
Diesel	**441**	38.5	76.9	ug/L	1	11/10/23 22:02	NWTPH-Dx LL	**F-11**
Oil	ND	76.9	154	ug/L	1	11/10/23 22:02	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 99 %*		*Limits: 50-150 %*	*1*	*11/10/23 22:02*	*NWTPH-Dx LL*	
FMW-03-11062023 (A3K1074-03)				**Matrix: Water**		**Batch: 23K0407**		
Diesel	**273**	38.5	76.9	ug/L	1	11/10/23 22:23	NWTPH-Dx LL	**F-11**
Oil	ND	76.9	154	ug/L	1	11/10/23 22:23	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 102 %*		*Limits: 50-150 %*	*1*	*11/10/23 22:23*	*NWTPH-Dx LL*	
FMW-04-11062023 (A3K1074-04)				**Matrix: Water**		**Batch: 23K0407**		
Diesel	**447**	38.1	76.2	ug/L	1	11/10/23 22:43	NWTPH-Dx LL	**F-11**
Oil	ND	76.2	152	ug/L	1	11/10/23 22:43	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		*Recovery: 103 %*		*Limits: 50-150 %*	*1*	*11/10/23 22:43*	*NWTPH-Dx LL*	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3K1074 - 11 27 23 1012**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
FMW-01-11062023 (A3K1074-01RE1)				**Matrix: Water**		**Batch: 23K0668**		
Diesel	ND	38.5	76.9	ug/L	1	11/17/23 07:21	NWTPH-Dx/SGC	
Oil	ND	76.9	154	ug/L	1	11/17/23 07:21	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 73 %*		*Limits: 50-150 %*	*1*	*11/17/23 07:21*	*NWTPH-Dx/SGC*	
FMW-02-11062023 (A3K1074-02RE1)				**Matrix: Water**		**Batch: 23K0668**		
Diesel	ND	38.5	76.9	ug/L	1	11/17/23 08:00	NWTPH-Dx/SGC	
Oil	ND	76.9	154	ug/L	1	11/17/23 08:00	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 75 %*		*Limits: 50-150 %*	*1*	*11/17/23 08:00*	*NWTPH-Dx/SGC*	
FMW-03-11062023 (A3K1074-03RE1)				**Matrix: Water**		**Batch: 23K0668**		
Diesel	ND	38.5	76.9	ug/L	1	11/17/23 08:47	NWTPH-Dx/SGC	
Oil	ND	76.9	154	ug/L	1	11/17/23 08:47	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 74 %*		*Limits: 50-150 %*	*1*	*11/17/23 08:47*	*NWTPH-Dx/SGC*	
FMW-04-11062023 (A3K1074-04RE1)				**Matrix: Water**		**Batch: 23K0668**		
Diesel	ND	38.1	76.2	ug/L	1	11/17/23 09:48	NWTPH-Dx/SGC	
Oil	ND	76.2	152	ug/L	1	11/17/23 09:48	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 71 %*		*Limits: 50-150 %*	*1*	*11/17/23 09:48*	*NWTPH-Dx/SGC*	

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Michele Poquiz For Kurt Johnson, Senior Chemist

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ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3K1074 - 11 27 23 1012**

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0407 - EPA 3510C (Fuels/Acid Ext.)									Water			
Blank (23K0407-BLK2)			Prepared: 11/10/23 06:24		Analyzed: 11/13/23 07:22							
NWTPH-Dx LL												
Diesel	ND	40.0	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	80.0	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 87 %*	*Limits: 50-150 %*		*Dilution: 1x*							
LCS (23K0407-BS2)			Prepared: 11/10/23 06:24		Analyzed: 11/13/23 07:43							
NWTPH-Dx LL												
Diesel	373	40.0	80.0	ug/L	1	500	---	75	36-132%	---	---	
Surr: o-Terphenyl (Surr)		*Recovery: 86 %*	*Limits: 50-150 %*		*Dilution: 1x*							
LCS Dup (23K0407-BSD2)			Prepared: 11/10/23 06:24		Analyzed: 11/13/23 08:03							**Q-19**
NWTPH-Dx LL												
Diesel	331	40.0	80.0	ug/L	1	500	---	66	36-132%	12	30%	
Surr: o-Terphenyl (Surr)		*Recovery: 83 %*	*Limits: 50-150 %*		*Dilution: 1x*							

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ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3K1074 - 11 27 23 1012**

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Result	Detection L Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0668 - EPA 3510C (Fuels/Acid Ext.) w/Silica Gel Column												**Water**
Blank (23K0668-BLK1)				Prepared: 11/10/23 06:24		Analyzed: 11/16/23 20:17						
NWTPH-Dx/SGC												
Diesel	ND	40.0	80.0	ug/L	1	---	---	---	---	---	---	
Oil	ND	80.0	160	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 100 %*	*Limits: 50-150 %*		*Dilution: 1x*						*Q-41*
LCS (23K0668-BS1)				Prepared: 11/10/23 06:24		Analyzed: 11/16/23 20:38						
NWTPH-Dx/SGC												
Diesel	383	40.0	80.0	ug/L	1	500	---	77	36-132%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 96 %*	*Limits: 50-150 %*		*Dilution: 1x*						*Q-41*
LCS Dup (23K0668-BSD1)				Prepared: 11/10/23 06:24		Analyzed: 11/16/23 20:58						**Q-19**
NWTPH-Dx/SGC												
Diesel	373	40.0	80.0	ug/L	1	500	---	75	36-132%	3	30%	
Surr: o-Terphenyl (Surr)			*Recovery: 101 %*	*Limits: 50-150 %*		*Dilution: 1x*						*Q-41*

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ANALYTICAL REPORT

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3K1074 - 11 27 23 1012**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23K0407							
A3K1074-01	Water	NWTPH-Dx LL	11/06/23 11:30	11/10/23 06:24	1040mL/2mL	1000mL/2mL	0.96
A3K1074-02	Water	NWTPH-Dx LL	11/06/23 12:30	11/10/23 06:24	1040mL/2mL	1000mL/2mL	0.96
A3K1074-03	Water	NWTPH-Dx LL	11/06/23 13:27	11/10/23 06:24	1040mL/2mL	1000mL/2mL	0.96
A3K1074-04	Water	NWTPH-Dx LL	11/06/23 14:35	11/10/23 06:24	1050mL/2mL	1000mL/2mL	0.95

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Prep: EPA 3510C (Fuels/Acid Ext.) w/Silica Gel Column

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23K0668							
A3K1074-01RE1	Water	NWTPH-Dx/SGC	11/06/23 11:30	11/10/23 06:24	1040mL/2mL	1000mL/2mL	0.96
A3K1074-02RE1	Water	NWTPH-Dx/SGC	11/06/23 12:30	11/10/23 06:24	1040mL/2mL	1000mL/2mL	0.96
A3K1074-03RE1	Water	NWTPH-Dx/SGC	11/06/23 13:27	11/10/23 06:24	1040mL/2mL	1000mL/2mL	0.96
A3K1074-04RE1	Water	NWTPH-Dx/SGC	11/06/23 14:35	11/10/23 06:24	1050mL/2mL	1000mL/2mL	0.95

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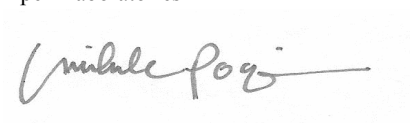

Michele Poquiz For Kurt Johnson, Senior Chemist

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Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

Farallon-Seattle	Project: **Centralia Asphalt Plant**	
1809 7th Ave Suite 1111	Project Number: **525-031**	**Report ID:**
Seattle, WA 98101	Project Manager: **Sarah Snyder**	**A3K1074 - 11 27 23 1012**

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

F-11	The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.

Apex Laboratories

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ANALYTICAL REPORT

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a “dry weight” basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an “As Received” basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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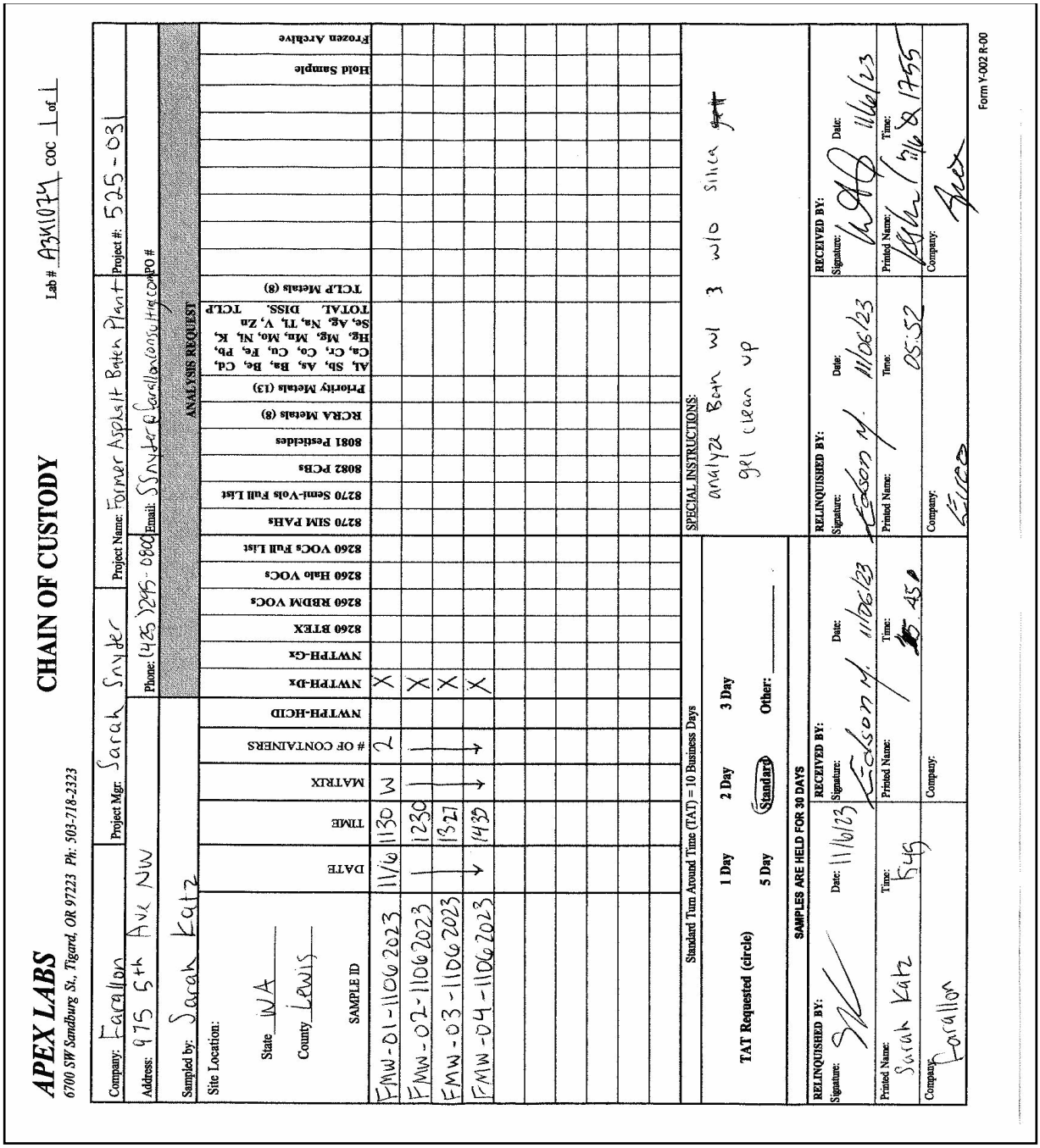

CHAIN OF CUSTODY

APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

Lab # A3K1074 COC 1 of 1

Company: Farallon | Project Mgr.: Sarah Snyder | Project Name: Former Asphalt Batch Plant | Project #: 525-031
Address: 975 5th Ave NW | Phone: (425) 295-0800 | Email: SSnyder@farallonconsulting.com | PO #
Sampled by: Sarah Katz

Site Location: State WA County Lewis

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive
FMW-01-110620231	11/6	1130	W	2		X															
FMW-02-110620231	"	1230	"	1		X															
FMW-03-110620231	"	1327	"	1		X															
FMW-04-110620231	"	1435	"	1		X															

Standard Turn Around Time (TAT) = 10 Business Days
TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day (Standard) Other: _____

SPECIAL INSTRUCTIONS:
analyze Barn wl 3 w/o silica gel
gel clean up

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Date: 11/6/23 Printed Name: Sarah Katz Time: 1545 Company: Farallon
RECEIVED BY: Signature: Date: 11/6/23 Printed Name: Time: Company:
RELINQUISHED BY: Signature: Date: 11/6/23 Printed Name: Time: 1645 Company:
RECEIVED BY: Signature: Date: 11/6/23 Printed Name: Time: 05:52 Company:
RELINQUISHED BY: Signature: Date: 11/6/23 Printed Name: Time: 1755 Company:
RECEIVED BY: Signature: Date: 11/6/23 Printed Name: Time: Company:

Form V-002 R-00

Apex Laboratories

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APEX LABORATORIES

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APEX LABS COOLER RECEIPT FORM

Client: Farallon Element WO#: A3 K1074

Project/Project #: Former Asphalt Batch Plant / 525-031

Delivery Info:

Date/time received: 11/6/23 @ 1755 By: kms

Delivered by: Apex__Client__ESS___FedEx__UPS__Radio___Morgan ___SDS___Evergreen X Other X

Cooler Inspection Date/time inspected: 11/6/23 @ 1755 By: kms

Chain of Custody included? Yes X No ___

Signed/dated by client? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	2.5						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

Cooler out of temp? (Y/N) Possible reason why: ___

Green dots applied to out of temperature samples? Yes/No

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 11-8-23 @ 1231 By: DJS

All samples intact? Yes X No ___ Comments: ___

Bottle labels/COCs agree? Yes X No ___ Comments: ___

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: ___

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments ___

Water samples: pH checked: Yes X No___NA___ pH appropriate? Yes X No___NA___ pH ID: A23I172

Comments: ___

Additional information: ___

Labeled by: DJS Witness: [signature] Cooler Inspected by: [signature]

Form Y-003 R-01

Apex Laboratories

[signature]

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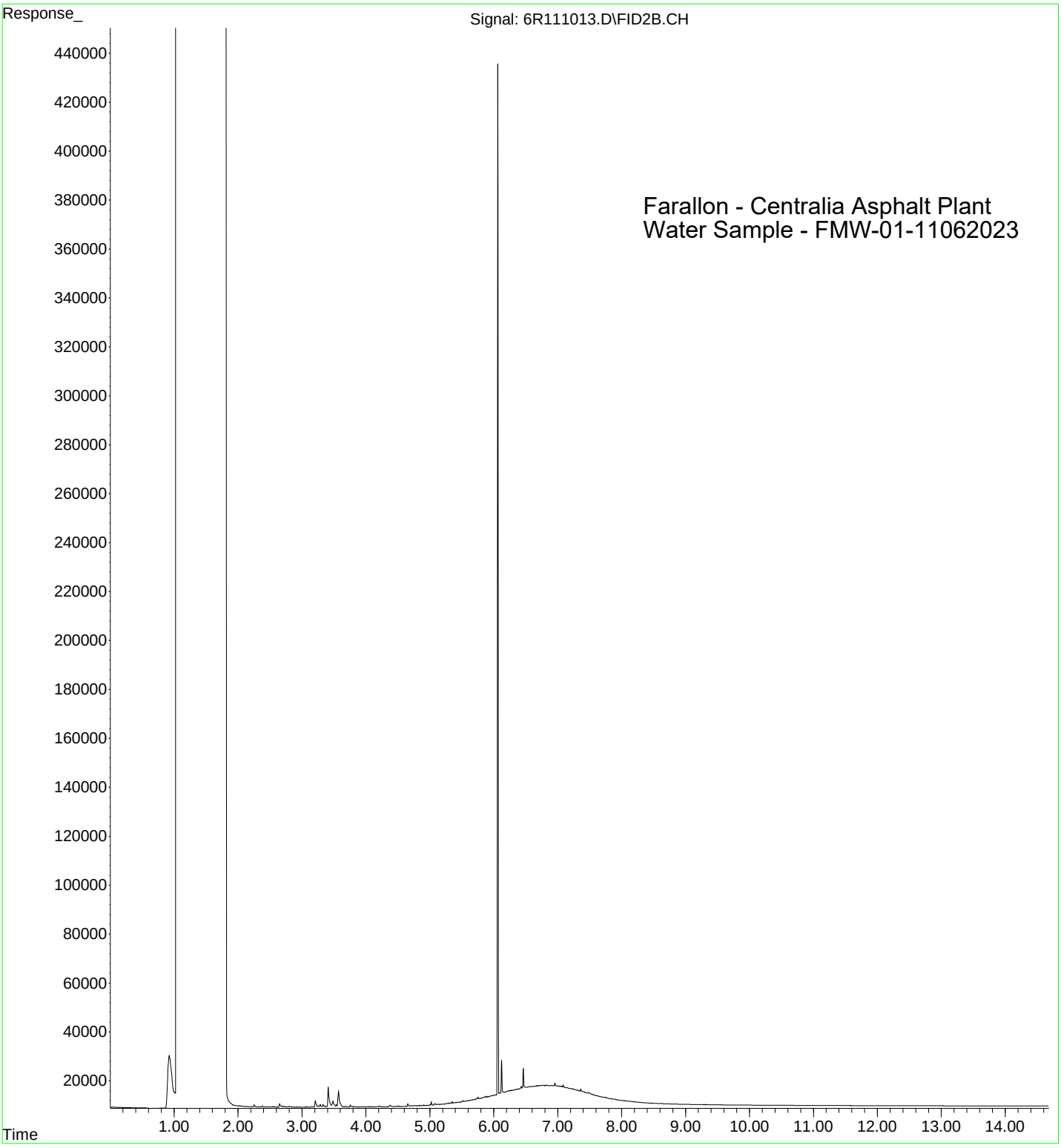
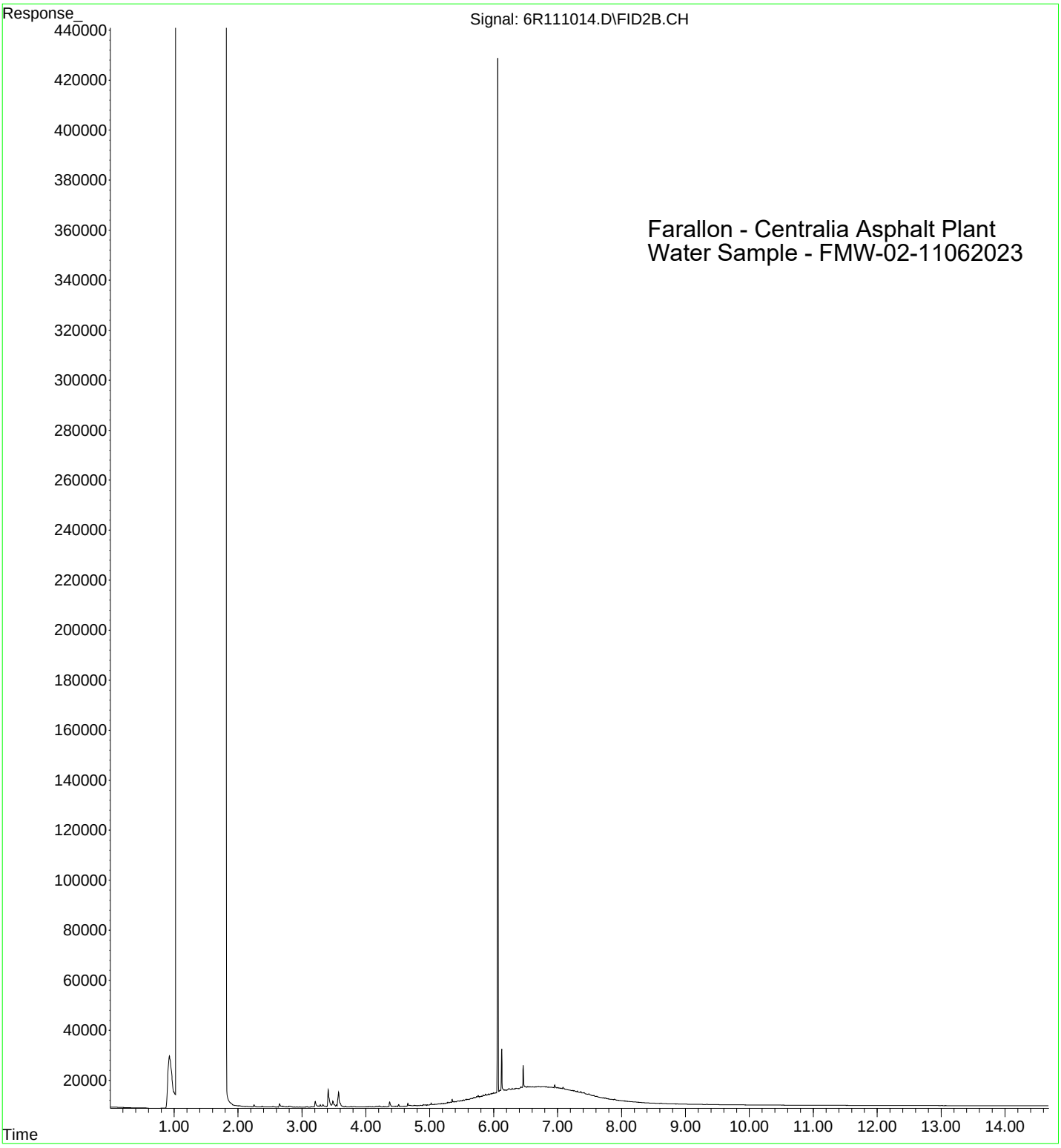
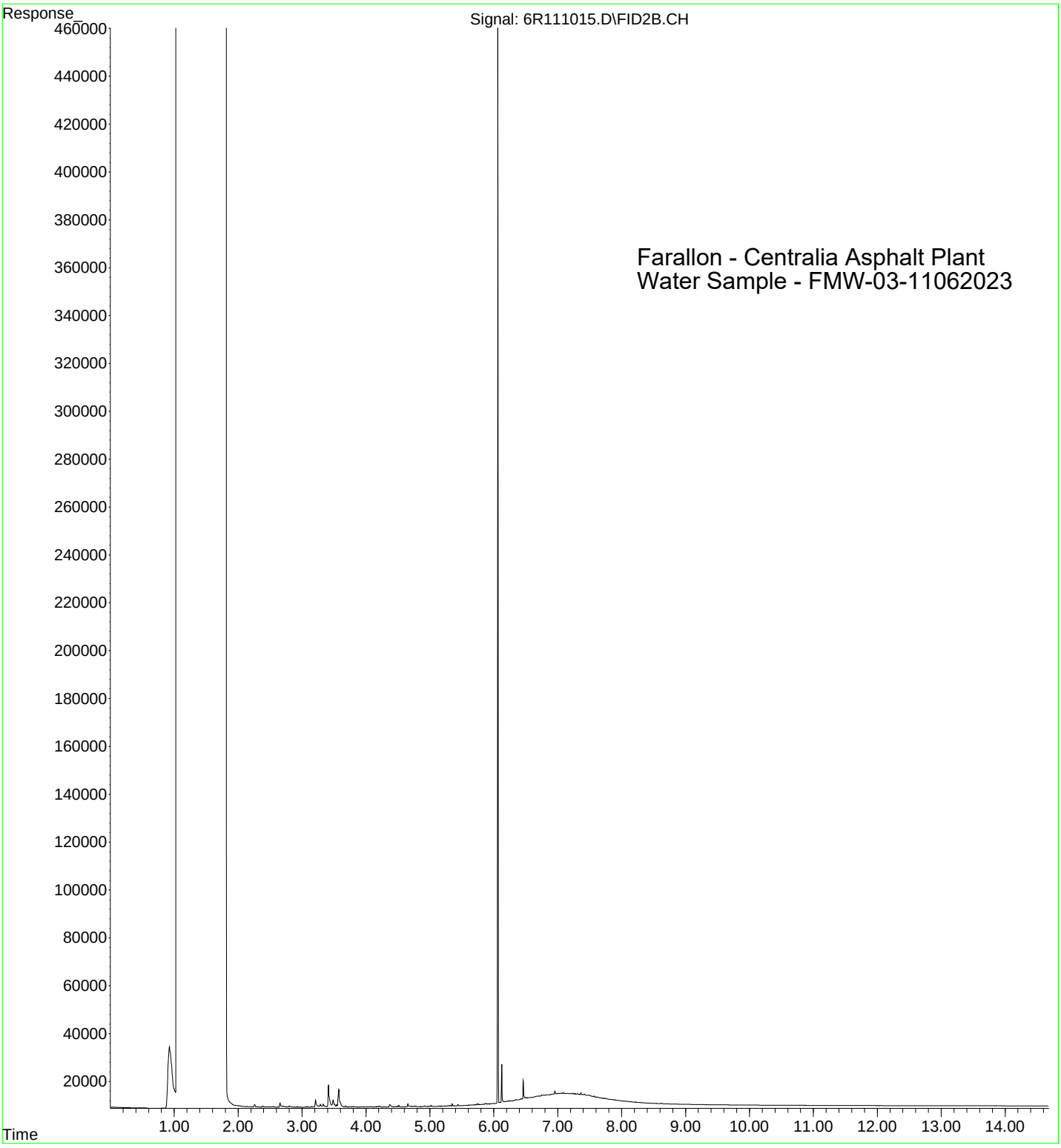
File :C:\gcms\1\data\3K10042\6R111013.D
Operator : BLL
Acquired : 10 Nov 2023 21:42 using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: A3K1074-01
Misc Info :
Vial Number: 57



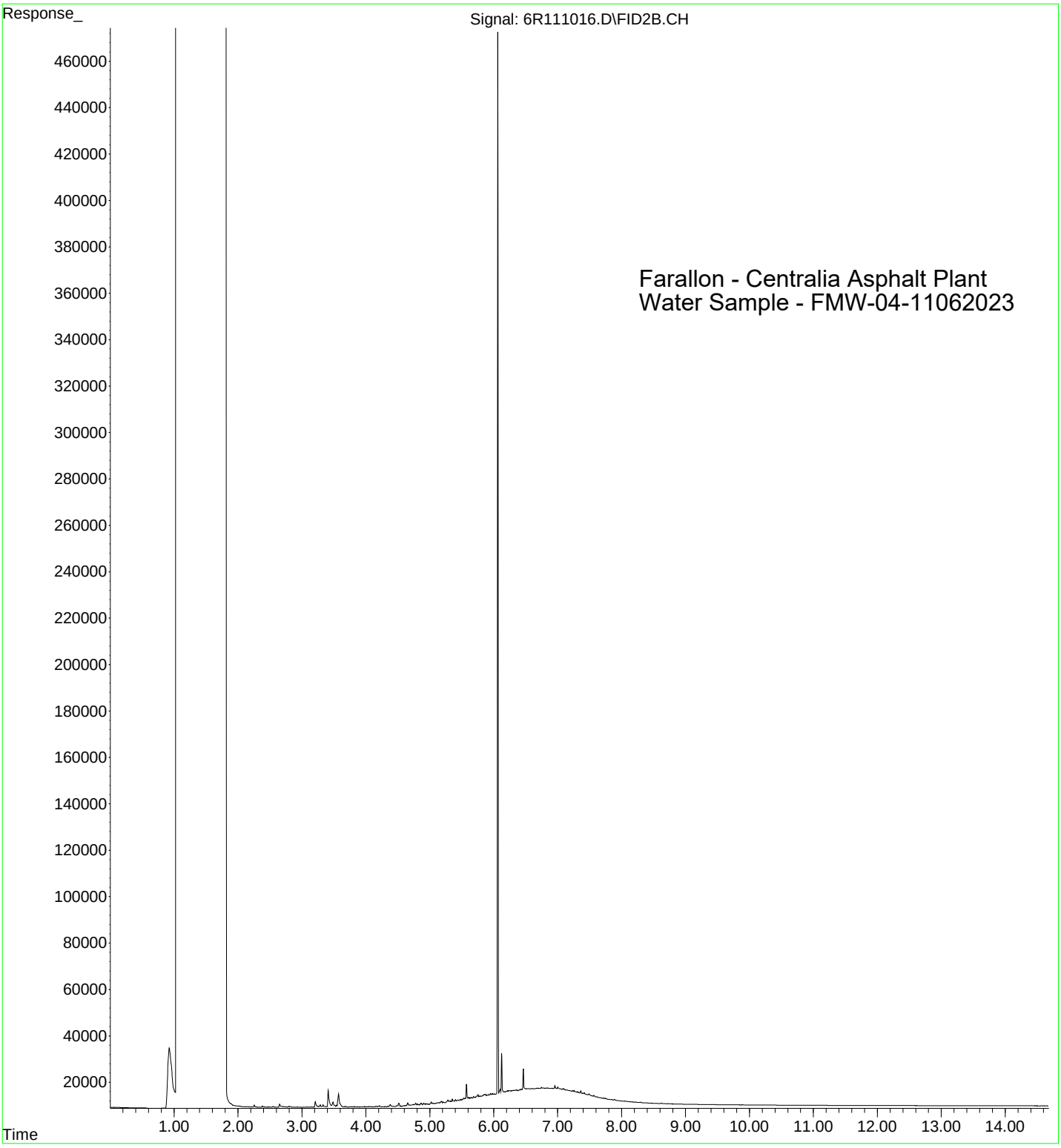
File :C:\gcms\1\data\3K10042\6R111014.D
Operator : BLL
Acquired : 10 Nov 2023 22:02 using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: A3K1074-02
Misc Info :
Vial Number: 58



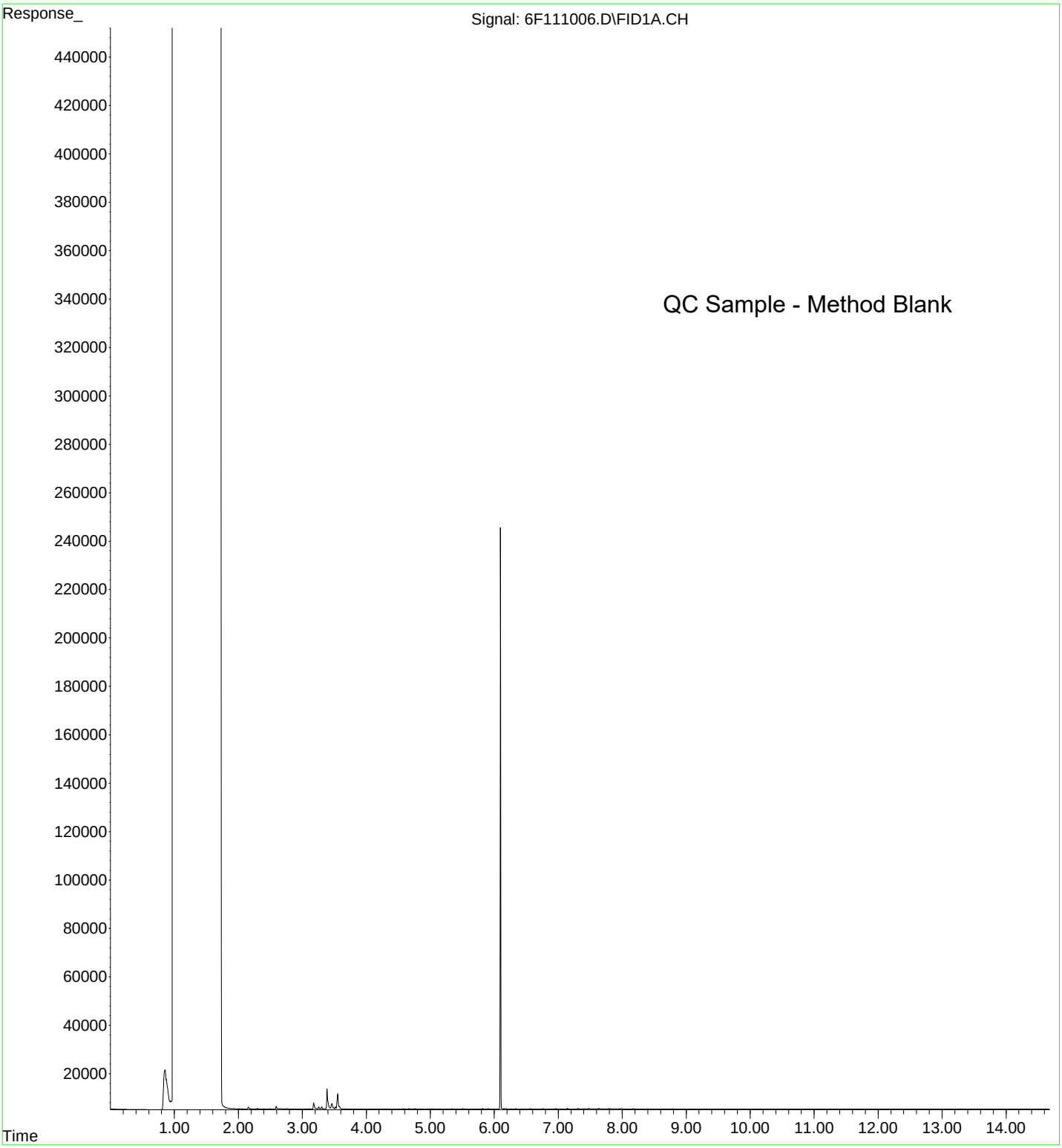
File :C:\gcms\1\data\3K10042\6R111015.D
Operator : BLL
Acquired : 10 Nov 2023 22:23 using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: A3K1074-03
Misc Info :
Vial Number: 59



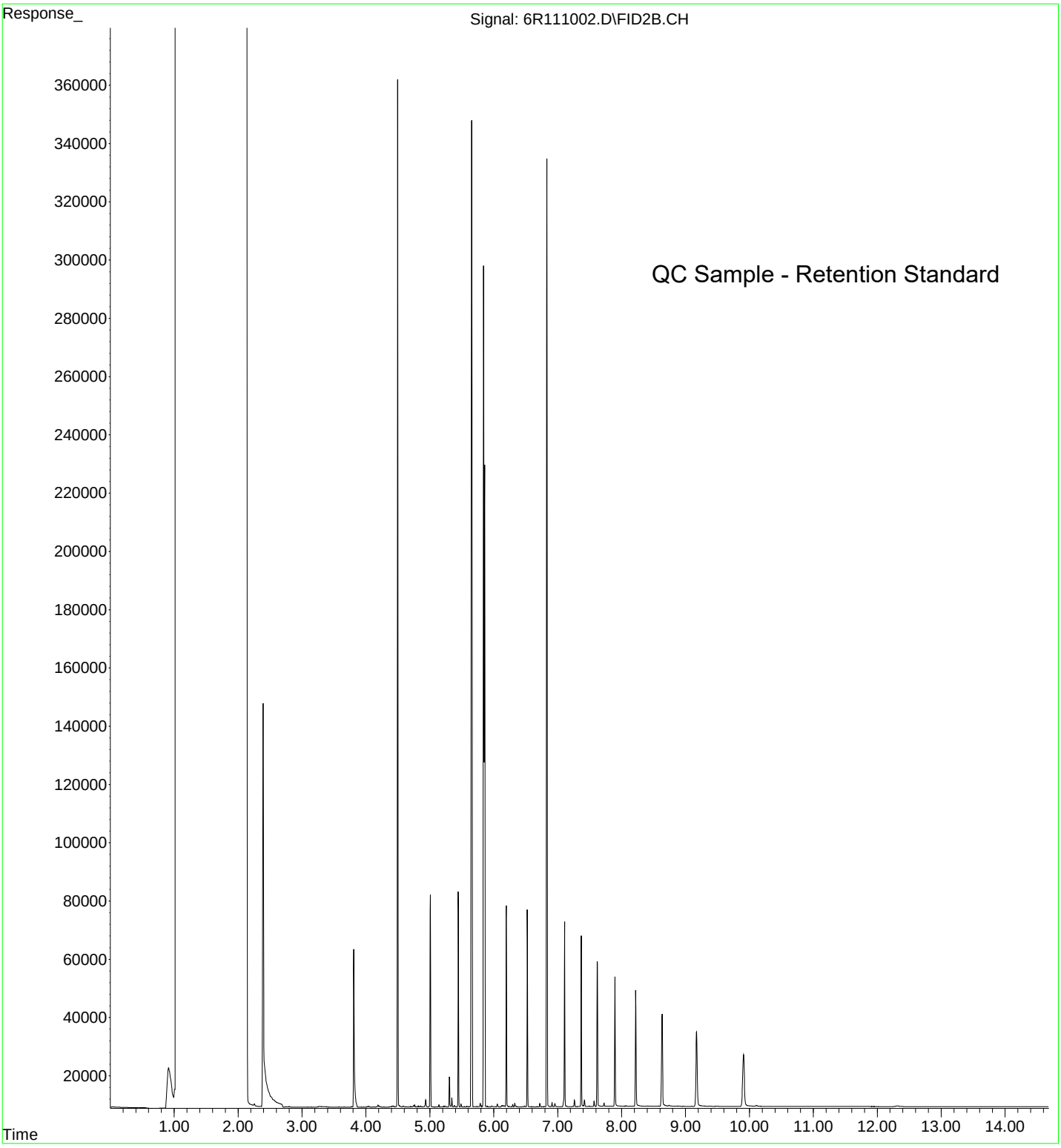
File :C:\gcms\1\data\3K10042\6R111016.D
Operator : BLL
Acquired : 10 Nov 2023 22:43 using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: A3K1074-04
Misc Info :
Vial Number: 60



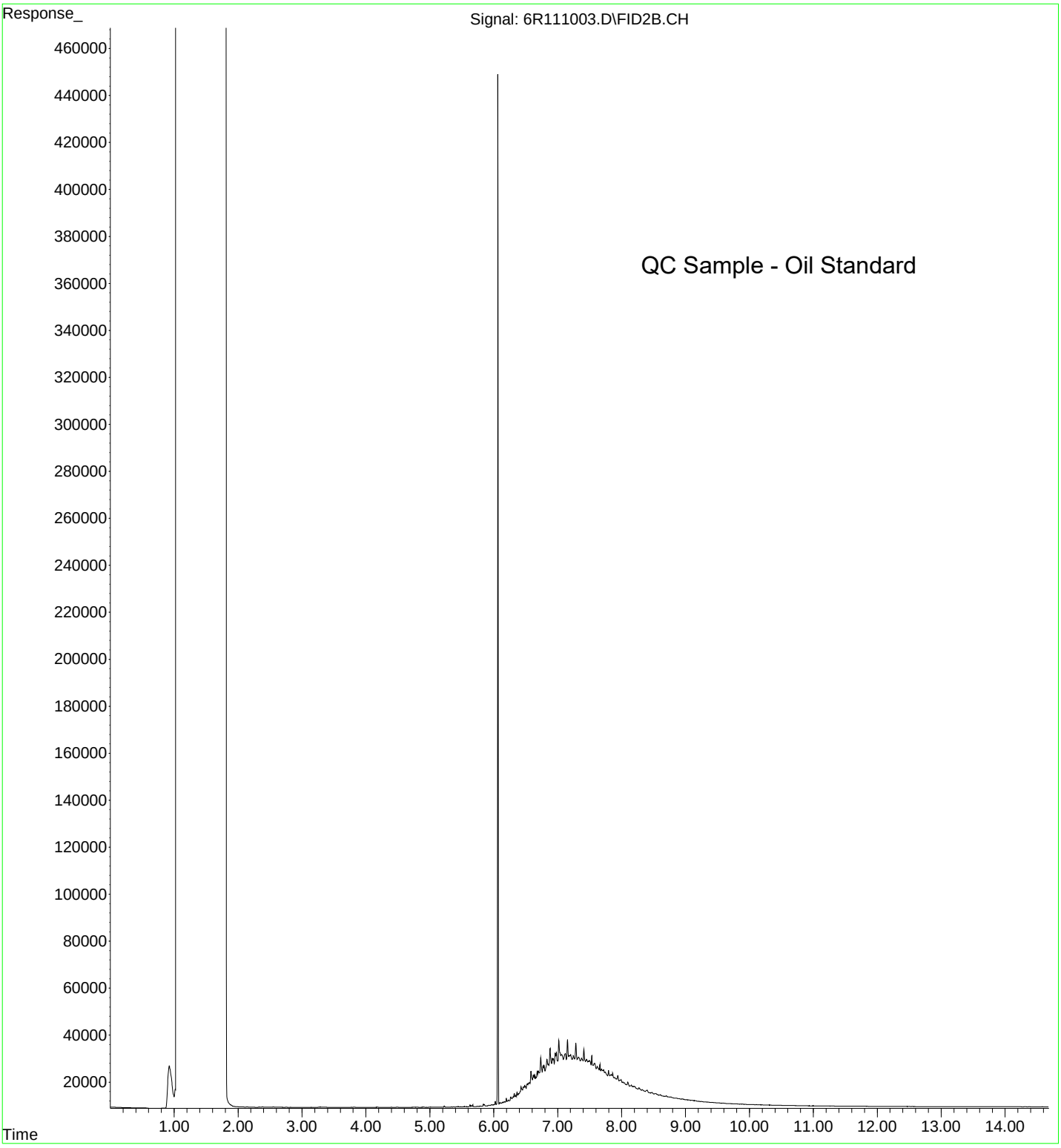
File   :C:\gcms\1\data\3K10041\6F111006.D
Operator   : BLL
Acquired   : 10 Nov 2023 19:20   using AcqMethod 6F71215A.M
Instrument :   HP G1530A
Sample Name: 23K0407-BLK1
Misc Info :
Vial Number: 3



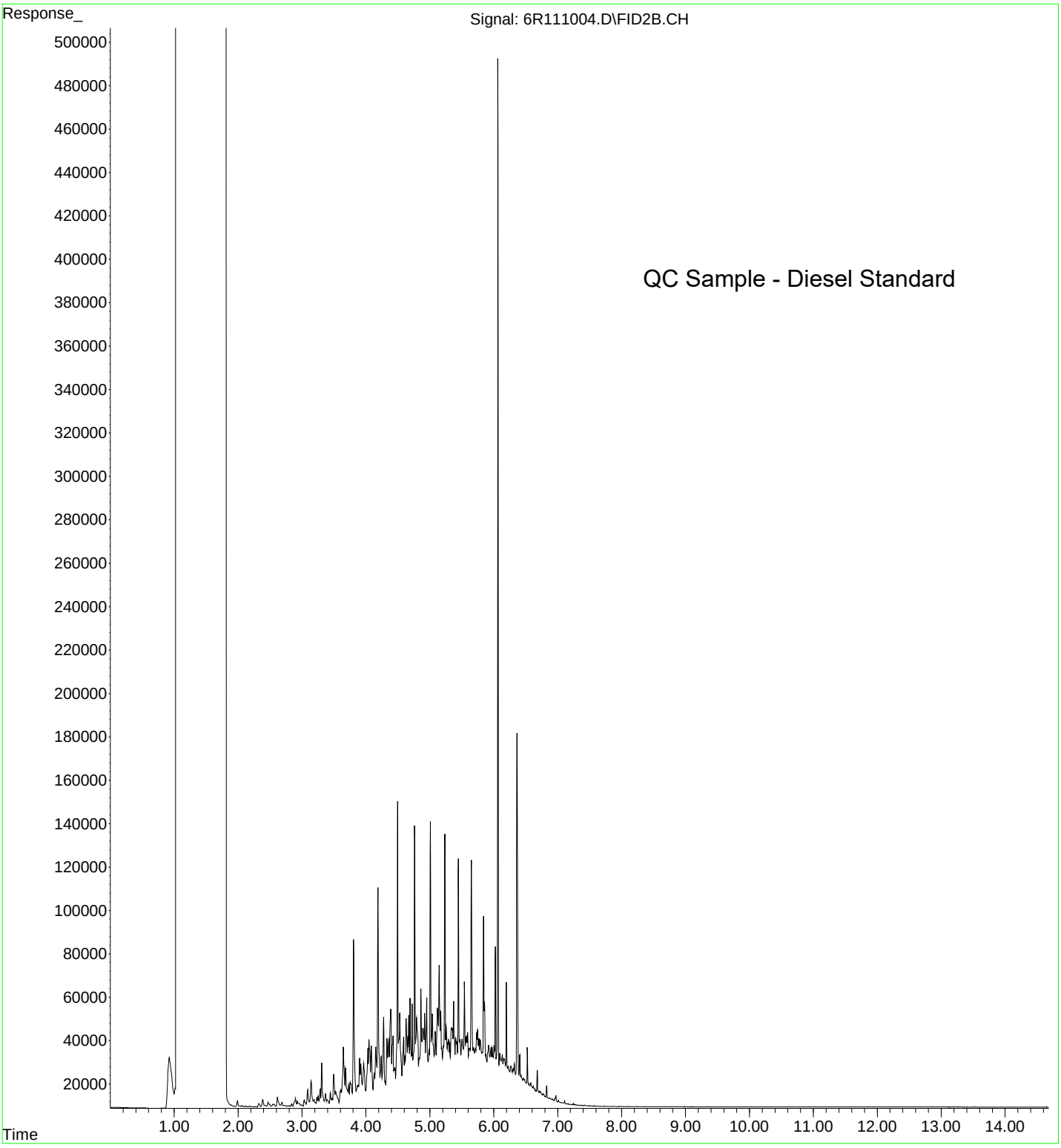
File   :C:\gcms\1\data\3K10042\6R111002.D
Operator   : BLL
Acquired   : 10 Nov 2023 15:26   using AcqMethod 6F71215A.M
Instrument :   HP G1530A
Sample Name: 3K10042-RES1
Misc Info :
Vial Number: 95



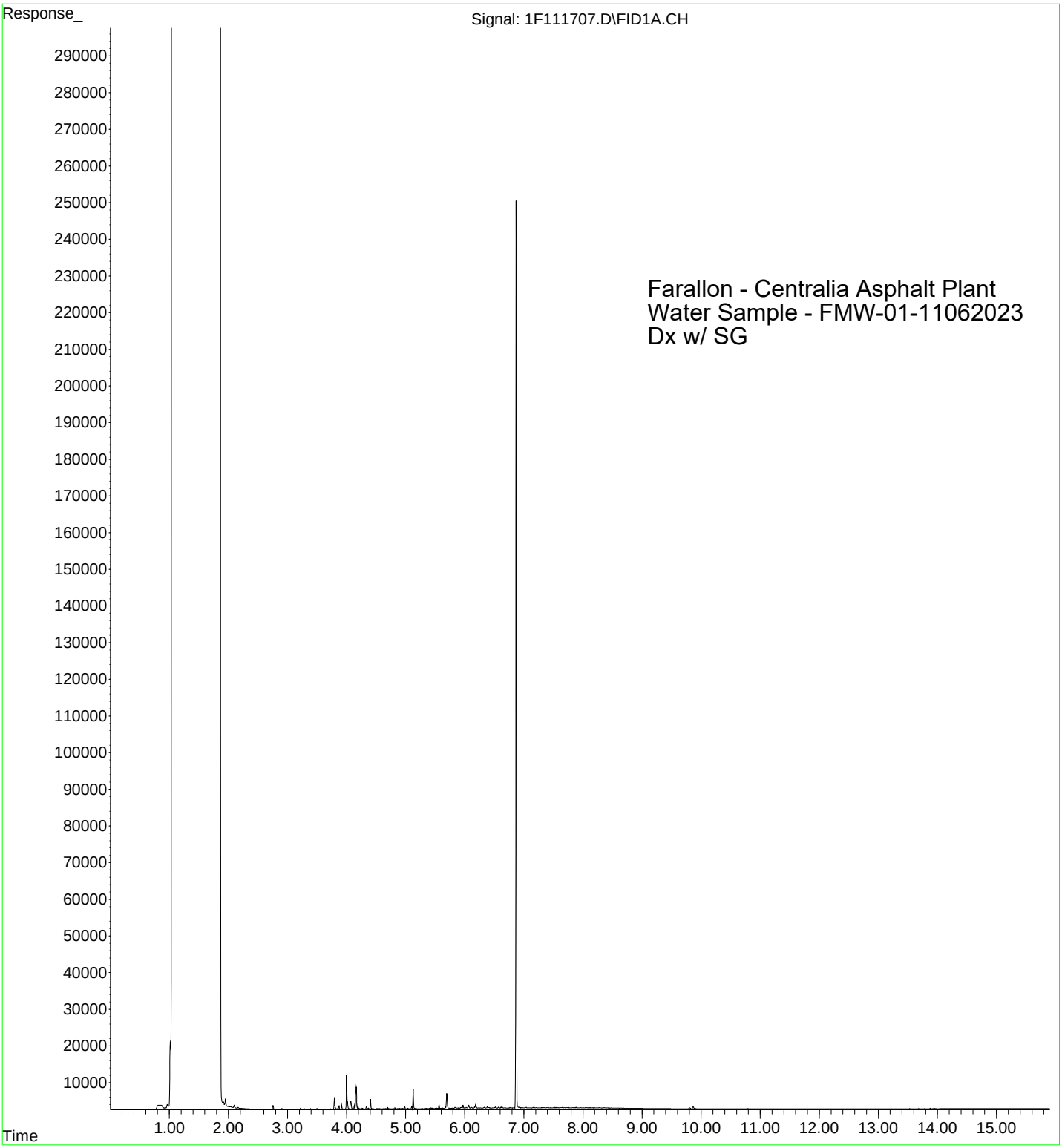
File   :C:\gcms\1\data\3K10042\6R111003.D
Operator   : BLL
Acquired   : 10 Nov 2023 15:47   using AcqMethod 6F71215A.M
Instrument :   HP G1530A
Sample Name: 3K10042-CCV1
Misc Info :
Vial Number: 2



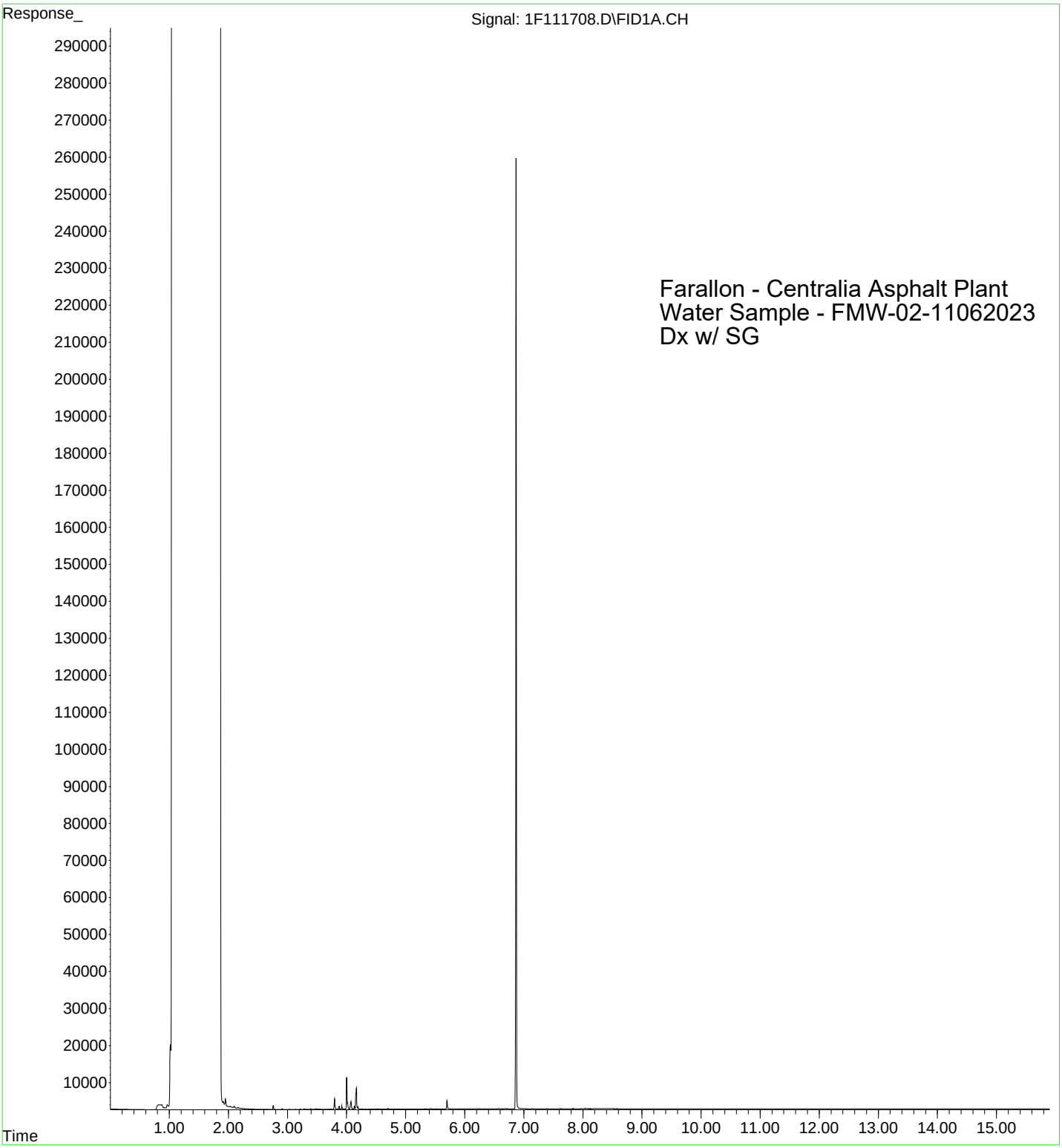
File   :C:\gcms\1\data\3K10042\6R111004.D
Operator   : BLL
Acquired   : 10 Nov 2023 16:07   using AcqMethod 6F71215A.M
Instrument :   HP G1530A
Sample Name: 3K10042-CCV2
Misc Info :
Vial Number: 1



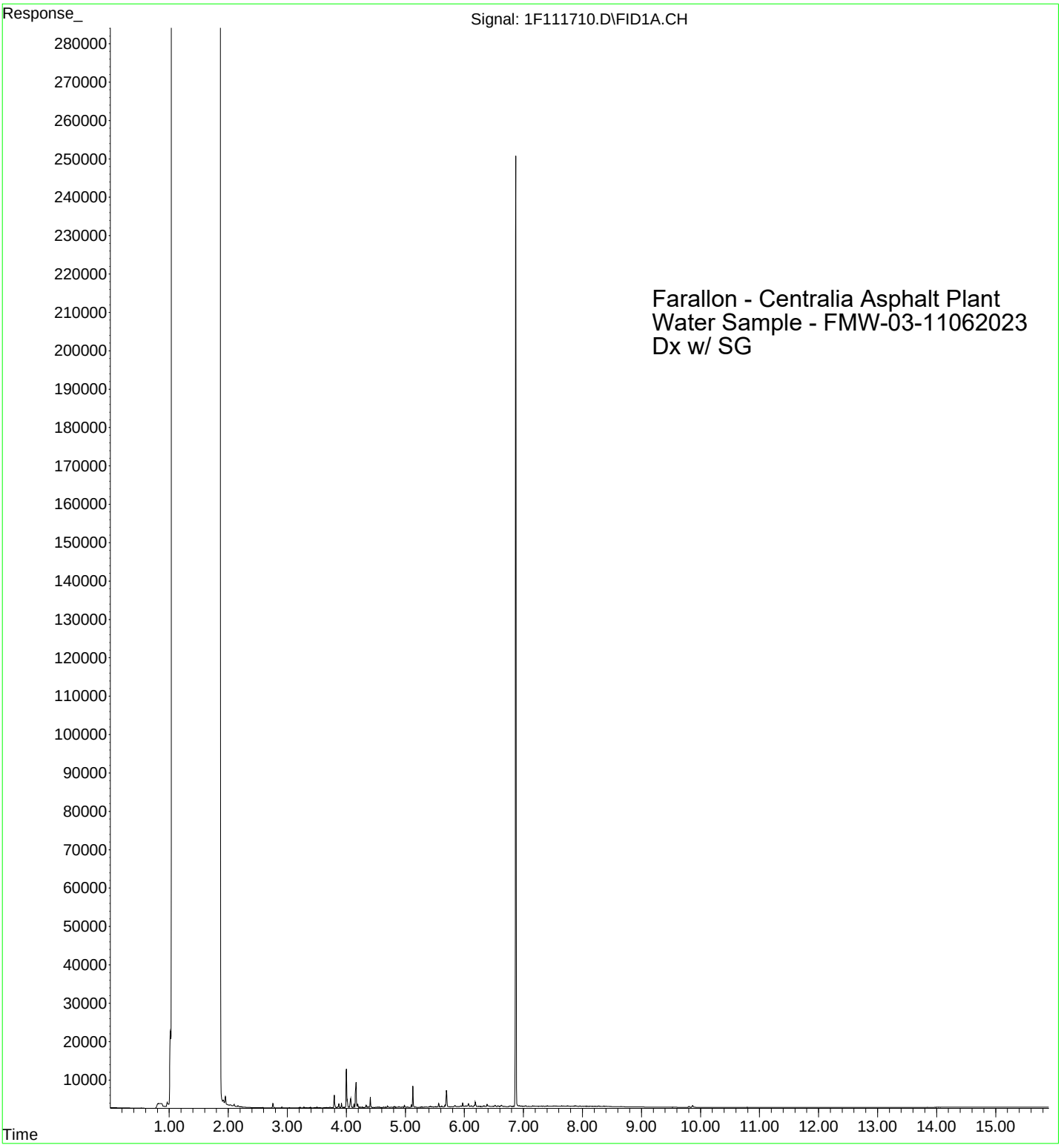
File :C:\gcms\1\data\3K17009\1F111707.D
Operator : BLL
Acquired : 17 Nov 2023 7:21 using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A3K1074-01RE1
Misc Info :
Vial Number: 4



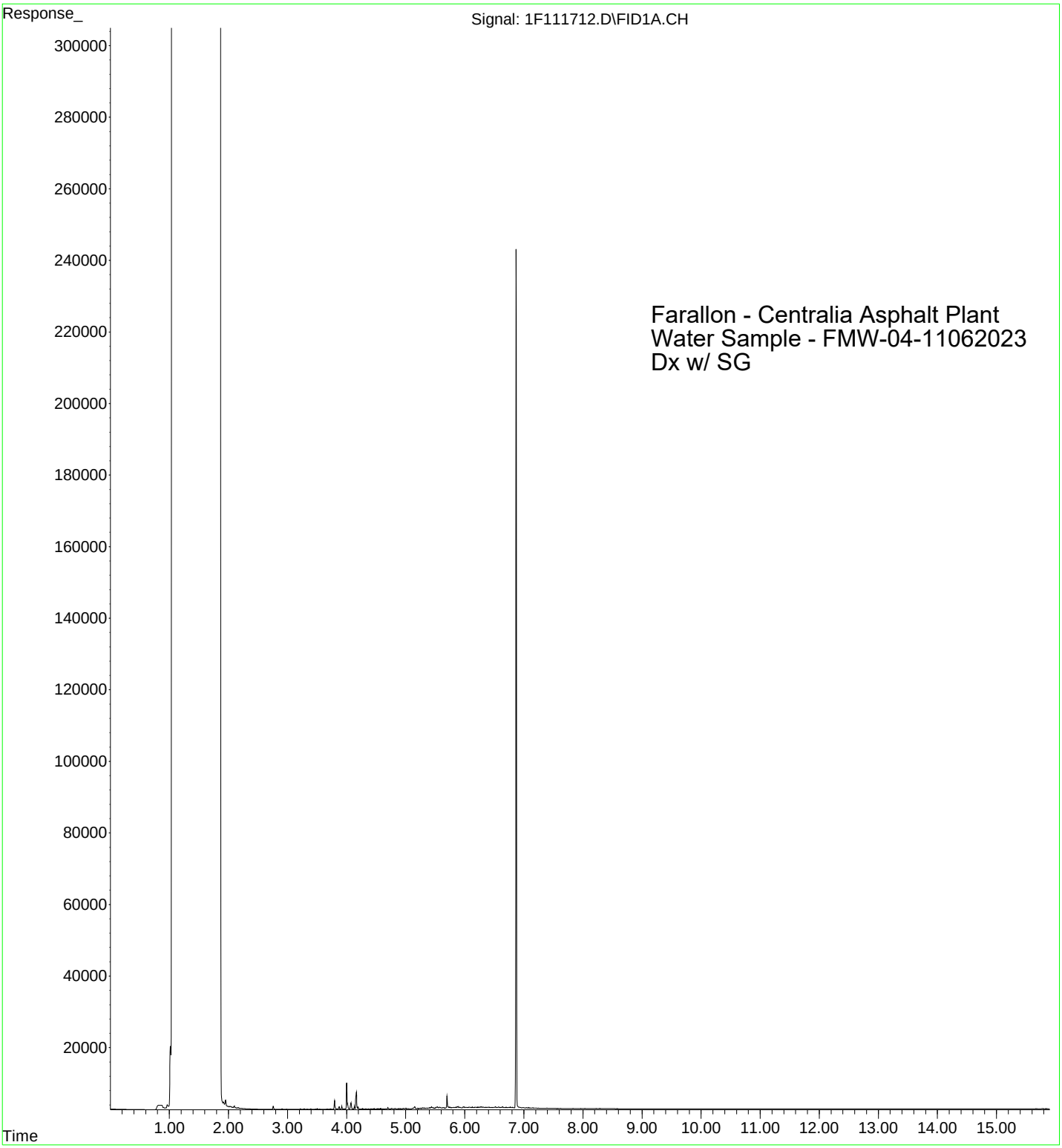
File :C:\gcms\1\data\3K17009\1F111708.D
Operator : BLL
Acquired : 17 Nov 2023 8:00 using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A3K1074-02RE1
Misc Info :
Vial Number: 5



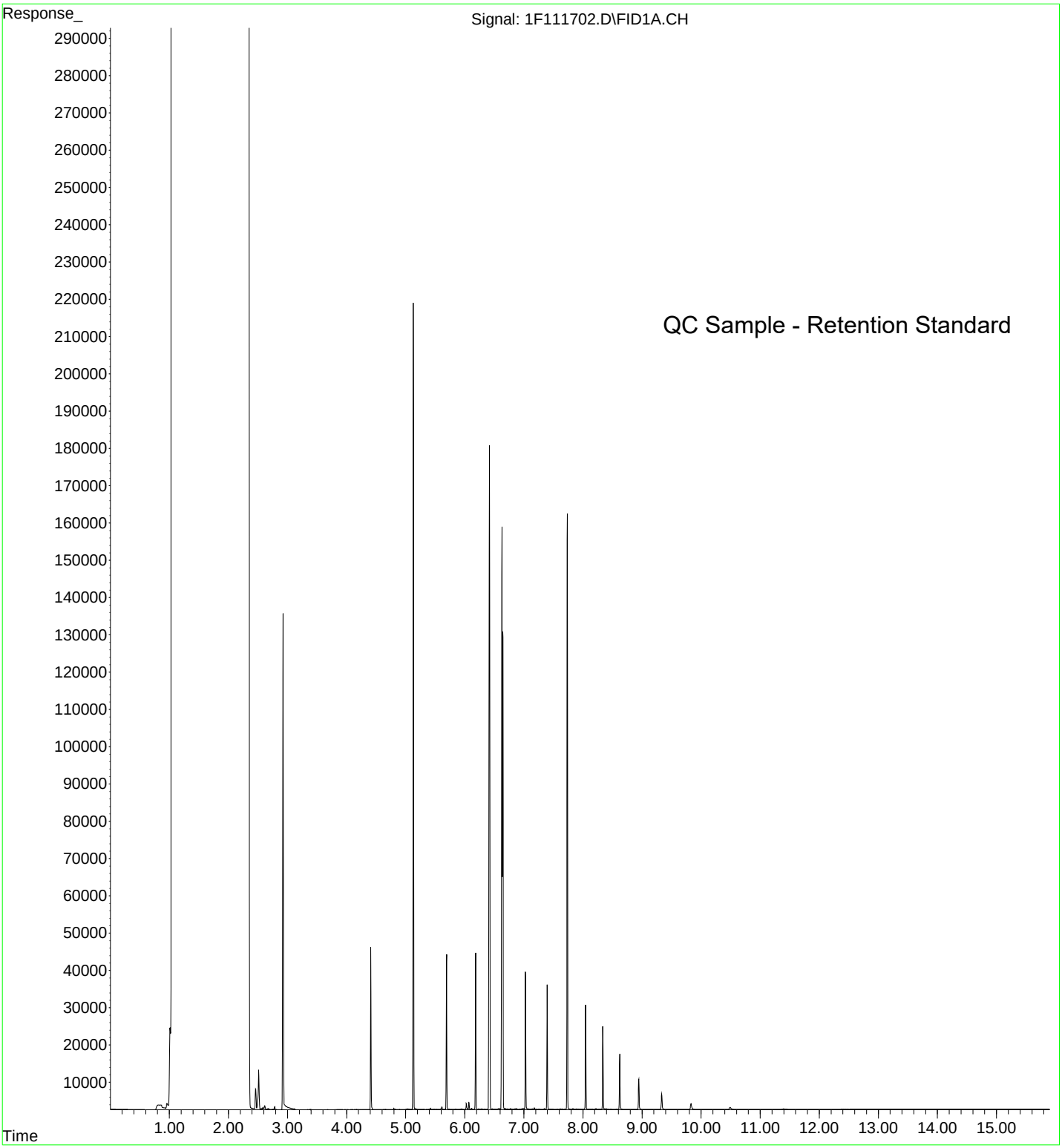
File :C:\gcms\1\data\3K17009\1F111710.D
Operator : BLL
Acquired : 17 Nov 2023 8:47 using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A3K1074-03RE1
Misc Info :
Vial Number: 6



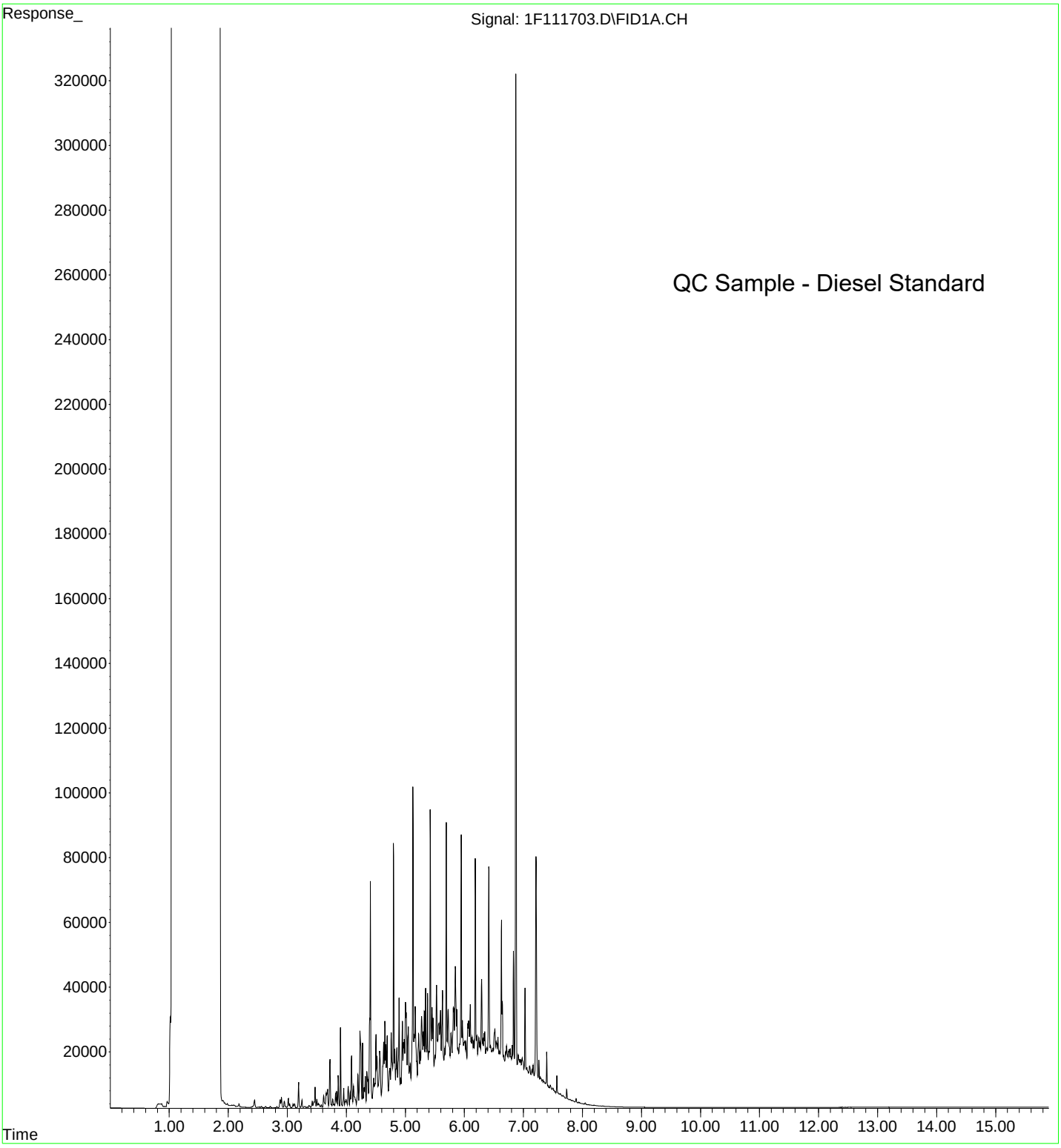
File :C:\gcms\1\data\3K17009\1F111712.D
Operator : BLL
Acquired : 17 Nov 2023 9:48 using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: A3K1074-04RE1
Misc Info :
Vial Number: 7



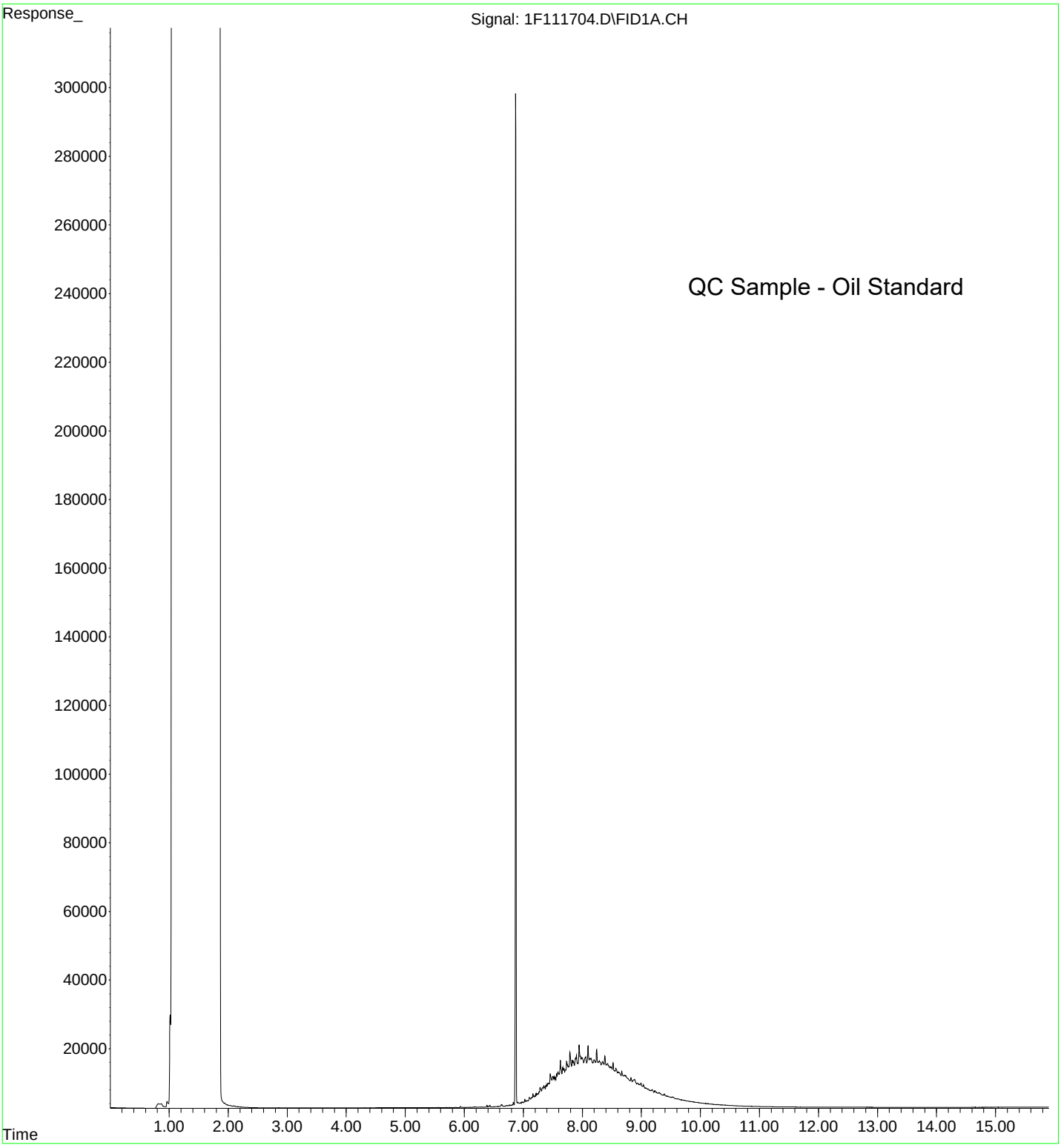
File :C:\gcms\1\data\3K17009\1F111702.D
Operator : BLL
Acquired : 17 Nov 2023 5:05 using AcqMethod A1F40422.M
Instrument : HP G1530A
Sample Name: 3K17009-RES1
Misc Info :
Vial Number: 94



File   :C:\gcms\1\data\3K17009\1F111703.D
Operator   : BLL
Acquired   : 17 Nov 2023   5:28   using AcqMethod A1F40422.M
Instrument :   HP G1530A
Sample Name: 3K17009-CCV1
Misc Info :
Vial Number: 1



File   :C:\gcms\1\data\3K17009\1F111704.D
Operator   : BLL
Acquired   : 17 Nov 2023   5:52   using AcqMethod A1F40422.M
Instrument :   HP G1530A
Sample Name: 3K17009-CCV2
Misc Info :
Vial Number: 2



File :C:\gcms\1\data\3K16035\6R111606.D
Operator : BLL
Acquired : 16 Nov 2023 20:17 using AcqMethod 6F71215A.M
Instrument : HP G1530A
Sample Name: 23K0668-BLK1
Misc Info :
Vial Number: 51